APPROVED WITH COMMENTS
DATE(S) 04/05/09

elpaso

March 24, 2009

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ENVIRONMENTAL REMEDIATION

Margaret Weiser
Environmental Scientist / Project Manager
Kansas Department of Health and Environment
Bureau of Environmental Remediation
Post Remedial Unit
1000 SW Jackson Street, Suite 420
Topeka, Kansas 66612-1367

RE: Subslab Vapor Investigation Report
Residence, 1800 North Topeka Street, El Dorado, Kansas

Dear Ms. Weiser:

This letter presents the results of the subslab vapor investigation conducted at the residence located at 1800 North Topeka Street, El Dorado, Kansas (Residence). The location of the Residence is presented on Figure 1. The investigation was performed by MWH Americas, Inc. (MWH) on behalf of El Paso Merchant Energy-Petroleum Company (EPME-PC).

Background

Recent groundwater monitoring conducted at the former EPME-PC El Dorado Refinery indicated the presence of groundwater impacts in the vicinity of the Residence. Groundwater well locations and recent analytical data are presented on Figure 2. As a precaution, the KDHE requested that EPME-PC perform subslab vapor sampling at one location in the basement of the Residence. On November 21, 2008, EPME-PC submitted the "*Subslab Vapor Investigation Work Plan for the El Dorado Refinery, El Dorado Kansas*" (November 2008) (Work Plan) to the Kansas Department of Health and Environment, Bureau of Environmental Remediation (KDHE). The KDHE subsequently approved the Work Plan in a letter dated November 26, 2008. Prior to performing field activities, a signed access agreement was obtained from the property owner, Mr. Jim Galliardt.

Subslab Vapor Sampling Port Installation

On December 17, 2008, MWH personnel installed the vapor sampling port inside the basement of the Residence following procedures outlined in the Work Plan. Mr. Galliardt was present during the installation and approved the location before the coring began. A photographic log of the vapor sampling port installation and subsequent sampling is included in Appendix A.

During installation of the sampling port, a rotary hammer drill was used to drill a small diameter pilot hole to assess the slab thickness. Next, the rotary hammer drill was used to advance a 1-inch diameter hole into the subslab. A ⅜-inch diameter inner hole was then advanced in the

center of the outer hole approximately two inches into the subslab material. After cleaning the borehole with a damp towel, the vapor probe was inserted into the borehole and capped. Once the vapor probe was in position, the annulus between the stainless steel sample probe and the borehole wall was filled with a Portland cement slurry for proper sealing.

Sub-Slab Vapor Sampling

On December 18, 2008, MWH personnel met Bill Morris and Margaret Weiser of the KDHE at the Residence for the subslab vapor sampling event. The KDHE was there to oversee the sampling event and also to collect a split sample.

Once in the basement, MWH visually inspected the sample port for defects prior to sampling. MWH proceeded to set up the summa canister sampling apparatus and collect field parameters, including ambient air temperature and barometric pressure. Field notes are included in Appendix B. The sampling apparatus setup is depicted in the attached photographic log (Appendix A). Two, one-liter summa canisters, each equipped with isolation valves, were used in the sampling effort, one for the primary subslab sample (VP-01) and one for the duplicate subslab sample (VP-100).

Once the sampling apparatus was prepared, the system was checked for leaks using a vacuum pump equipped with a pressure gauge. System leaks were initially indicated and loss of pressure was noted at the vacuum gauge. System fittings were secured and the system was re-checked and passed the leak test prior to system purging. The sampling system was purged with a hand vacuum pump prior to sample collection. Purge air was collected in a Tedlar bag so that the purge volume could be easily measured. Approximately one liter of air was purged from the system prior to sampling.

After the system purging was completed, the regulator valve at summa canister VP-01 was opened to begin sampling and the beginning vacuum of the canister was recorded at -22 inches of mercury (”-Hg). It should be noted that the initial vacuum for VP-01 (-22”-Hg) was considered below acceptance criteria set forth in the Work Plan and is discussed in more detail below. After approximately nine minutes, the VP-01 pressure gauge indicated 0”-Hg and sampling was deemed complete and the regulator valve was closed. Next, the regulator valve at sample container VP-100 was opened to begin sampling and the beginning vacuum of the canister was recorded (-28.5”-Hg). After approximately thirteen minutes, the pressure gauge indicated 0”-Hg and sampling was deemed complete and the regulator valve was closed.

Once VP-01 and VP-100 were collected, MWH removed both sample canisters from the sampling system, and the KDHE installed a third one-liter summa canister to the sampling system. The KDHE collected one a split sample (KDHE VP01) with the canister. MWH personnel completed chain-of-custody documentation, packed the two sample containers, and cleaned up the area to the homeowner’s satisfaction prior to leaving the Residence.

Analytical

MWH submitted the two summa canister samples under standard chain-of-custody procedures to Accutest Laboratory in Dayton, New Jersey via overnight delivery service for testing. The samples were analyzed by EPA Method TO-15 for the volatile compounds identified in the Work Plan with the exception of n-propylbenzene, sec-butylbenzene, and t-butylbenzene. These three compounds are not commonly tested by Method TO-15. Concentrations of these three compounds in the groundwater within the study area (less than the KDHE Tier 2 Residential RBSL for sec-butylbenzene, and t-butylbenzene, and less than 50 µg/L for n-propylbenzene) were at much lower levels than other VOCs, such as benzene, and therefore do not present a likely indoor air risk. The KDHE sample KDHE VP01 was submitted to Pace Analytical Services, Inc. located in Minneapolis, Minnesota for analysis by EPA Method TO-15.

Based on the low initial vacuum (-22”-Hg) observed during sampling, the summa canister used to collect Sample VP-01 was determined to have leaked during transport from the laboratory. Therefore, the resulting data from this canister were considered invalid per EPA Method TO-15 (EPA/625/R-96/010b) protocol. Samples VP-100 and KDHE sample KDHE VP01 were found to be within acceptance criteria. Analytical results from samples VP-100 and KDHE VP01 are presented in Table 1. Complete laboratory analytical reports are provided in Appendix C.

Preliminary laboratory analytical results were submitted to Four Star Environmental of Houston, Texas for data validation. The Data Usability Summary (DUS) report is included in Appendix D for the data. The conclusion of the DUS was that the data are valid and are within the acceptance criteria.

Volatile organic compounds that were detected above laboratory-reporting limits for the valid samples, VP-100 and KDHE VP01, are shown in Table 1. Also presented on Table 1 are the KDHE Risk-Based Standards for Kansas – 4th Edition, June 2007, Appendix A-2 Tier 2 Risk-Based Indoor Air Values for comparison. However, per the KDHE guidance document “*Kansas Vapor Intrusion Guidance (June 2007)”,* indoor air and subslab vapor concentrations are not directly comparable and a dilution/attenuation factor of 10 is commonly utilized when evaluating subslab vapor data (i.e., subslab vapor data are typically reduced by a factor of 10 for comparing with indoor standards).

As shown on Table 1, analytical results were below the KDHE Indoor Air RBSLs for all detected compounds. It is recommended that the sub-slab monitoring port be removed and that no additional vapor sampling be conducted.

Closing

Based on the results of the subslab vapor sampling described above, EPME-PC proposes abandonment of the sub-slab vapor sampling port at this time. EPME-PC would also like to clarify that no further subslab or other vapor sampling is warranted.

Your consideration in this matter is appreciated. Please feel free to call me at (719) 520-4615 with any questions or comments you may have.

Sincerely,

Brian Kellmann, P.G., CHMM
Project Manager
Environmental Remediation
El Paso Corporation

Enclosure

cc: Bill Morris (KDHE-BER)
Jean Underwood (KDHE-BER)
Doug Mick (MWH)
Bill Pickens (MWH)

Tables

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SUBSLAB VAPOR SAMPLES
1800 N. TOPEKA STREET, EL DORADO, KANSAS
EL PASO MERCHANT ENERGY-PETROLEUM COMPANY
(Page 1 of 2)

Analyte (Units)	KDHE Indoor Air Values	EPME-PC Results	KDHE Split-Sample Results
	Sample Identification	**VP-100**	**KDHE VP01**
	Date Collected	**12/18/2008**	**12/18/2008**
Volatile Organic Compounds (µg/m3)			
Acetone	156.4	**35.2**	**64.0**
Benzene	2.7	ND [5.1]	ND [5.5]
Bromodichloromethane	1.4	--	ND [11.8]
Bromoform	--	--	ND [17.6]
Bromomethane	2.2	--	ND [6.6]
1,3-Butadiene	0.1	--	ND [3.8]
Carbon Disulfide	312.9	--	ND [5.3]
Carbon Tetrachloride	0.9	--	ND [10.9]
Chlorobenzene	8.9	--	ND [7.9]
Chloroethane	29.4	ND [4.2]	ND [4.5]
Chloroform	1.1	--	ND [8.3]
Chloromethane	13.5	--	ND [3.5]
Cumene (Isopropylbenzene)	156.4	ND [7.9]	--
Cyclohexane	--	--	ND [5.7]
Dibromochloromethane	--		ND [14.3]
Dibenzofuran	6.3	--	--
1,2-Dichlorobenzene	89.4	--	ND [10.1]
1,3-Dichlorobenzene	--	--	ND [10.1]
1,4-Dichlorobenzene	3.5	--	ND [10.1]
Dichlorodifluoromethane	89.4	--	ND [8.4]
1,1-Dichloroethane	223.5	ND [6.5]	ND [6.9]
1,2-Dichloroethane	0.9	--	ND [6.9]
1,1-Dichloroethene	0.5	--	ND [6.8]
1,2-Dichloroethene (cis)	15.6	ND [6.3]	ND [6.8]
1,2-Dichloroethene (trans)	31.3	--	ND [6.8]
1,2-Dichloropropane	1.3	--	ND [7.9]
1,3-Dichloropropene (cis)	0.7	--	ND [7.7]
1,3-Dichloropropene (trans)	--	--	ND [7.7]
Dichlorotetrafluoroethane	--	--	ND [11.8]
Ethyl acetate	--	--	ND [6.1]
Ethylbenzene	453.6	ND [6.9]	ND [7.4]
Ethylene dibromide (1,2-Dibromomethane)	0.1	--	ND [13.4]
4-Ethyltoluene	--	--	ND [21.0]
n-Heptane	--	--	ND [7.0]
Hexachloro-1,3,butadiene	--	--	ND [18.5]
n-Hexane	89.4	--	ND [6.0]
2-Hexanone	--	--	ND [7.0]

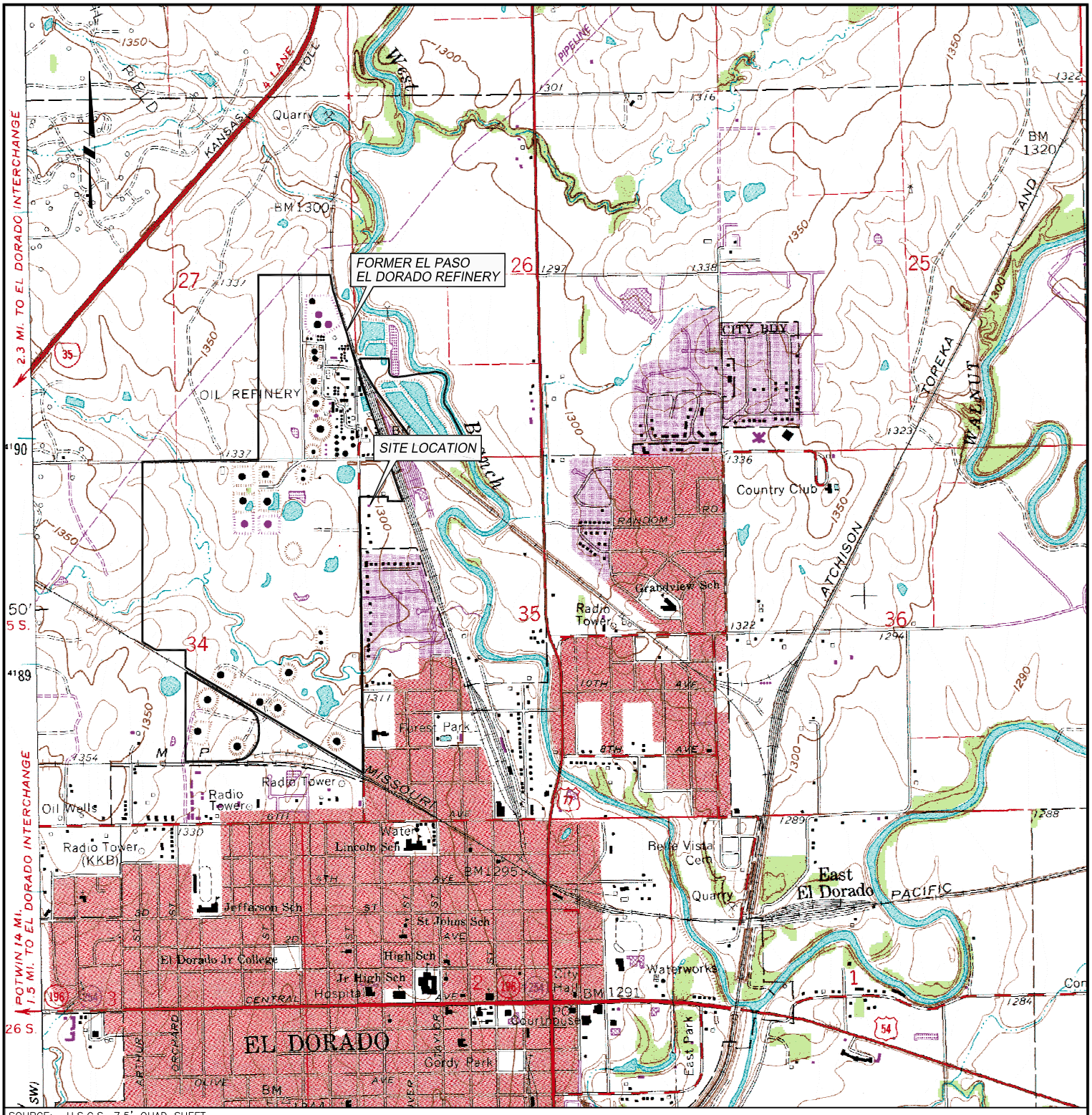
TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SUBSLAB VAPOR SAMPLES
1800 N. TOPEKA STREET, EL DORADO, KANSAS
EL PASO MERCHANT ENERGY-PETROLEUM COMPANY
(Page 2 of 2)

Analyte (Units)	KDHE Indoor Air Values	EPME-PC Results	KDHE Split-Sample Results
	Sample Identification	**VP-100**	**KDHE VP01**
	Date Collected	**12/18/2008**	**12/18/2008**
Volatile Organic Compounds (µg/m3) (continued)			
Methylene Chloride	51.8	--	**16.6**
Methyl Ethyl Ketone (2-Butanone)	446.9	ND [4.7]	**7.4**
Methyl Isobutyl Ketone (MIBK)	35.8	--	ND [7.0]
Methyl Tertbutyl Ether	1340.8	ND [5.8]	ND [6.1]
Naphthalene	1.3	ND [21]	ND [22.7]
Propylene	--	--	ND [2.9]
Styrene	453.6	--	ND [7.3]
1,1,2,2-Tetrachloroethane	0.4	--	ND [11.8]
Tetrachloroethene (PCE)	42.0	--	ND [11.8]
Tetrohydrofuran	--	--	ND [5.0]
Toluene	172.1	ND [6.4]	ND [6.5]
1,2,4-Trichlorobenzene	89.2	--	ND [8.3]
1,1,1-Trichloroethane	446.9	--	ND [9.2]
1,1,2-Trichloroethane	1.5	--	ND [9.2]
Trichloroethene (TCE)	14.2	--	ND [9.2]
Trichlorofluoromethane	--	--	ND [9.2]
1,1,2-Trichlorotrifluoroethane	--	--	ND [13.4]
1,2,4-Trimethylbenzene	2.7	ND [7.9]	ND [21.0]
1,3,5-Trimethylbenzene	2.7	ND [7.9]	ND [21.0]
Vinyl Acetate	--	--	ND [6.0]
Vinyl Chloride	0.3	ND [4.1]	ND [4.4]
Xylene (mixed)	46.9	ND [6.9]	ND [14.8]

µg/mg micrograms per milligrams.
Bold Bolded result indicates positively identified compound.
-- No limit established or not scheduled.
* KDHE Risk-Based Standards for Kansas – 4th Edition, June 2007, Tier 2 Risk-Based Indoor Air Values
ND [5.5] Not Detected Above Laboratory Reporting Limit

Figures



SOURCE: U.S.G.S. 7.5' QUAD SHEET
EL DORADO, KANSAS
PHOTOREVISED 1979

SCALE

0 1,000' 2,000'

SCALE IN FEET

DESIGNED BY	J. TEGROTENHUIS	9/08
DRAWN BY	M. WARNER	9/08
CHECKED BY	R. HULTGREN	9/08
APPROVED BY	D. MICK	
PROJECT MANAGER	D. MICK	
CLIENT APPROVAL	B. KELLMANN	
CLIENT REFERENCE NO	1914085.74050102	

elpaso

PROJECT LOCATION: EL DORADO, KS

PROJECT: EL PASO MERCHANT ENERGY - PETROLEUM CO

TITLE: FORMER EL DORADO REFINERY SITE LOCATION MAP

MWH

FIGURE: 1

REVISION: 1

FILE NAME: EDR Figure 1-1 Site Map.dwg

PRINT DATE: SEPTEMBER 15, 2008

L:\El_Dorado_Projects\ElDoradoGIS\Rpt2009\SubSlab\MXD\SSB-001_LocMap.mxd 3/3/2009

LEGEND:

SHALLOW MONITORING WELL (ALLUVIUM AND WEATHERED BEDROCK)

NOTES:

MONITORING WELLS LABELED WITH WELL NAME, SAMPLING DATE AND GROUNDWATER CONCENTRATION OF BENZENE, MTBE, AND VINYL CHLORIDE. ALL RESULTS ARE IN MICROGRAMS PER LITER. (ug/L)

SCALE

0 125 250

SCALE IN FEET

DRAWING REFERENCE(S):

1. AERIAL PHOTOGRAPH PRODUCED BY AERO-METRIC, INC. FROM JUNE 15, 2005 AERIAL SURVEY. STATE PLANE KANSAS SOUTH COORDINATES, NAD 83, US FEET.

DESIGNED BY	R. Hultgren	03/09
DRAWN BY	G. Elwell	03/09
CHECKED BY	R. Hultgren	03/09
APPROVED BY	W. Pickens	03/09
PROJECT MANAGER	D. Mick	03/09
PROJECT NO.	1914382.94010103	
FILE NAME	SSB-001_LocMap.mxd	

elpaso

PROJECT LOCATION: EL DORADO, KANSAS

PROJECT: EL PASO MERCHANT ENERGY - PETROLEUM CO.

MWH

TITLE: WELL LOCATIONS AND GROUNDWATER ANALYTICAL DATA IN SITE VICINITY

FIGURE: 2

APPENDIX A

Client: El Paso	**Project Number: 1914351**
Project Name: Topeka Street Property	**Site Location: El Dorado, KS**

Photo 1 Dec 19, 2008

VP-01 location.

Photo 2 Dec 19, 2008

Drilling 1/4" pilot hole.

Photo 3 Dec 19, 2008

Checking slab thickness.

Photo 4 Dec 19, 2008

Drilling 1" outer hole.

Client: El Paso

Project Number: 1914351

Project Name: Topeka Street Property

Site Location: El Dorado, KS

Photo 5 Dec 19, 2008

1" outer hole.

Photo 6 Dec 19, 2008

Drilling 3/8" inner hole.

Photo 7 Dec 19, 2008

Sample port prior to insertion.

Photo 8 Dec 19, 2008

Sample port after insertion and grouting.

Client: El Paso

Project Number: 1914351

Project Name: Topeka Street Property

Site Location: El Dorado, KS

Photo 9 Dec 18, 2008

Sample port location.

Photo 10 Dec 19, 2008

Sampling setup.

Photo 11 Dec 19, 2008

Preparing to purge system with hand pump.

Photo 12 Dec 19, 2008

Pressure check prior to sampling.

Client: El Paso	**Project Number: 1914351**
Project Name: Topeka Street Property	**Site Location: El Dorado, KS**

Photo 13 Dec 19, 2008

Summa vacuum gauge during sampling.

APPENDIX B

12/12/08 El Dorado Sub-Slab Sampling @ 1800 N. Topeka.

0945- Doug Mich & Bill Pelton arrive @ site & prep for install of vapor probe.

1000- Meet Jim Gallandt owner of 1800 N. Topeka. After brief discussion Mr. Gallandt accompanied MWH to basement where the location for vapor probe discussed. Mr. Gallandt agreed to location as proposed by MWH.

1015- MWH placed plastic drop cloth around work area.

1025- MWH begin drilling pilot hole w/ 1/4" bit.

1030- MWH through concrete w/ 1/4" pilot bit. Appears to be approx. 6" thick. Clean up w/ vacuum then gauge depth of hole w/ wire. Based on wire gauging, thickness of slab is approx. ~~8~~ 9"

1045 - MWH begin drilling 1" diameter hole.
1100 - The 1" diameter hole complete then cleaned w/ disposal towel
1110 - Drill 3/8" hole to 11.5" TD

1125 - Assemble probe for placement in boring
1145 - ~~Grout~~ Install probe & then grout w/ portland & 1-3% bent. mix
1150 - Clean up
1200 - Leave site

12/17/08

12/18/08 El Dorado Sub-Slab
@ 1800 N. Tyska

1015 - Meet w/ KDHE Maggie Weiner & Bill Morris.
1020 - Meet w/ home owner Jim Gallimbert then enter home & basement.
1032 - Temp 53.6° F Meter 28.69" Hg

- El Dorado @ Jabara Reading 30.08
T = 29.0° F @ 0954 AM

1050 - Bill Pickow set up sampling system.
1052 - Collect indoor air w/ hand pump & Tedlar
1055 - Test Tedlar bag - 65 ppm
1105 - Recalibrate PID
1110 - Grab air sample w/ Tedlar bag again
PID = 10.1 ppm

1111 - Bill Pickens purges system by purging a Tedlar bag full

1113 - Temp - 61.5 °F
Barometer 28.69 "Hg

1115 - Measure Tedlar purge bag w PID
10.1 PPM

1117:21 - Tank ~~pressure~~ Dgn vacuum = 22.0" Hg

VP-01 - Begin collecting air sample @ 1117 am
T = 61.9 °F
"Hg = 28.69 (Barometric pressure)

1128:18 VP-01 ~~pressure~~ Vacuum Dgn down to Ø" hg

1129:45 VP-100 begin air sampling
Tank ~~pressure~~ Dgn vacuum
"Hg = 28.5 T = 61.9 °F
Barometric pressure = 28.66 "Hg

1142:20 - VP-100 ~~pressure~~ vacuum gauge @ Ø hg

1143 - T = 62.2 °F
Barometric pressure 28.66 hg

1144 Bill ~~to~~ Pickens arrive both commute

1150 - KDHE collect sample split @ VP-01

1155 - KDHE leave site

1200 - Reading tubed directly from probe w/ PID = 1.2 ppm
T = 62.1
Barometric pressure = 28.66 hg

1210 - Clean up

1230 - Leave Site

12/18/08

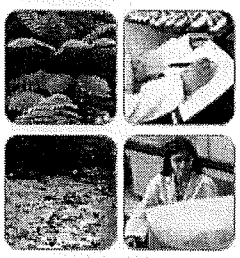
APPENDIX C

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

01/09/09

RECEIVED
JAN 14 2009
BY: LD WCH-1



Technical Report for

MWH

El Dorado, Topeka Street (1800 North), El Dorado, KS

1914351

Accutest Job Number: JA8427

Sampling Date: 12/18/08

Report to:

MWH
8200 E. 34th Street North
Suite 1201
Wichita, KS 67226

ATTN: Doug Mick

Total number of pages in report: 282

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP Ops, Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

Note: This report is password protected to disallow document modification or assembly.
To obtain a version that can be unlocked, contact your client service representative.

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Sample Summary

MWH

Job No: JA8427

El Dorado, Topeka Street (1800 North), El Dorado, KS
Project No: 1914351

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA8427-1	12/18/08	11:28	DEM	12/19/08	AIR	Air	VP-01
JA8427-2	12/18/08	11:42	DEM	12/19/08	AIR	Air	VP-100

ACCUTEST Laboratories

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: MWH **Job No** JA8427

Site: El Dorado, Topeka Street (1800 North), El Dorado, KS **Report Date** 1/9/2009 2:34:21 PM

On 12/19/2008, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA8427 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** VW834

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA8551-6DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	VP-100			
Lab Sample ID:	JA8427-2		Date Sampled:	12/18/08
Matrix:	AIR - Air	Summa ID: A584	Date Received:	12/19/08
Method:	TO-15		Percent Solids:	n/a
Project:	El Dorado, Topeka Street (1800 North), El Dorado, KS			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19571.D	1	01/06/09	YMH	n/a	n/a	VW834
Run #2							

	Initial Volume
Run #1	50.0 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	14.8	1.6	0.35	ppbv		35.2	3.8	ug/m3
71-43-2	78.11	Benzene	ND	1.6	0.14	ppbv		ND	5.1	ug/m3
75-00-3	64.52	Chloroethane	ND	1.6	0.21	ppbv		ND	4.2	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	1.6	0.17	ppbv		ND	6.5	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	1.6	0.22	ppbv		ND	6.3	ug/m3
100-41-4	106.2	Ethylbenzene	ND	1.6	0.15	ppbv		ND	6.9	ug/m3
98-82-8	120	Isopropylbenzene	ND	1.6	0.15	ppbv		ND	7.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	1.6	0.31	ppbv		ND	4.7	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	1.6	0.15	ppbv		ND	5.8	ug/m3
91-20-3	128.17	Naphthalene	ND	4.0		ppbv		ND	21	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	1.6	0.19	ppbv		ND	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	1.6	0.17	ppbv		ND	7.9	ug/m3
108-88-3	92.14	Toluene	ND	1.6	0.16	ppbv		ND	6.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	1.6	0.25	ppbv		ND	4.1	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	1.6	0.21	ppbv		ND	6.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		78-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.63	410	ppbv	J
	System artifact	14.22	48	ppbv	J
	System artifact	17.62	3200	ppbv	J
	System artifact	19.83	230	ppbv	J
	Total TIC, Volatile		410	ppbv	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

sample lost vacuum seal

Report of Analysis

Client Sample ID:	VP-01		
Lab Sample ID:	JA8427-1	Date Sampled:	12/18/08
Matrix:	AIR - Air Summa ID: A435	Date Received:	12/19/08
Method:	TO-15	Percent Solids:	n/a
Project:	El Dorado, Topeka Street (1800 North), El Dorado, KS		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W19570.D	1	01/06/09	YMH	n/a	n/a	VW834
Run #2							

	Initial Volume
Run #1	50.0 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	22.3	1.6	0.35	ppbv		53.0	3.8	ug/m3
71-43-2	78.11	Benzene	ND	1.6	0.14	ppbv		ND	5.1	ug/m3
75-00-3	64.52	Chloroethane	ND	1.6	0.21	ppbv		ND	4.2	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	1.6	0.17	ppbv		ND	6.5	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	1.6	0.22	ppbv		ND	6.3	ug/m3
100-41-4	106.2	Ethylbenzene	ND	1.6	0.15	ppbv		ND	6.9	ug/m3
98-82-8	120	Isopropylbenzene	ND	1.6	0.15	ppbv		ND	7.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	1.6	0.31	ppbv		ND	4.7	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	1.6	0.15	ppbv		ND	5.8	ug/m3
91-20-3	128.17	Naphthalene	2.7	4.0		ppbv	J	14	21	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	1.6	0.19	ppbv		ND	7.9	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	1.6	0.17	ppbv		ND	7.9	ug/m3
108-88-3	92.14	Toluene	3.9	1.6	0.16	ppbv		15	6.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	1.6	0.25	ppbv		ND	4.1	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	1.6	0.21	ppbv		ND	6.9	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		78-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.63	370	ppbv	J
	System artifact	14.22	41	ppbv	J
	System artifact	17.62	3300	ppbv	J
	System artifact	19.83	200	ppbv	J
	Total TIC, Volatile		370	ppbv	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2008 MDL Study - Method: TO-15

ACCUTEST Laboratories
www.accutest.com AIR

CHAIN OF CUSTODY
Air Sampling Field Data Sheet

2235 US Highway 130, Dayton, NJ 08810
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking #	Bottle Order Control # MM-12/15/2008-10
Lab Quote #	Lab Job # JA8427

PAGE 1 OF 1

Client / Reporting Information

Company Name: MWH
Address: 8200 E. 34th St. Circle North
City: Wichita State: KS Zip: 67226
Project Contact: Doug Mick E-mail: douglas.e.mick@mwhglobal.com
Phone #: (316) 634-6224 Fax #: (316) 634-6211
Sampler(s) Name(s): Doug Mick and Bill Pickens

Project Name: El Dorado
Street: Topeka Street, (1000 N.)
City: El Dorado State: KS
Project #: 1914351
Client Purchase Order #: Pending

Weather Parameters

Temperature (Fahrenheit)
Start: 61.9 Maximum: 62.2
Stop: 62.2 Minimum: 61.9

Atmoshpheric Pressure (inches of Hg)
Start: 28.69 Maximum: 28.69
Stop: 28.66 Minimum: 28.66

Other weather comment:

Requested Analysis

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24 hr clock)	Canister Pressure (" Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24 hr clock)	Canister Pressure (" Hg)	Interior Temp (F)	Sampler Init.	TO15*			
VP-01	VP-01-1	SV	1152	1L	FC297	12/18/08	1117	22.0	61.9	DEM	12/18/08	1128	Ø	61.9	DEM	X			
VP-100	VP-100-2	SV	1311	1L	FC166	12/18/08	1129	28.5	61.9	DEM	12/18/08	1142	Ø	62.2	DEM	X			

Summa

Turnaround Time (Business Days)

Standard - 15 Days	✓
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By: DEM
Date: 12/18/08

Date Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other: El Paso level 3

Comments / Remarks

* See Requested List
Please note cannister pressure for VP-01 was 22.0" Hg. Custody Seal # Returns: 348

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 John H. Johnson	12/15/08 1800	1 FED EX	2		2
3 [illegible]	12/18/08 1500	3 Fed Ex 8658	4 9758 5567 Fedex	12/19/08 0945	4 [illegible]
5		5	Custody Seal #		

Summa Canister and Flow Controller Log

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS
Received: 12/19/08

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A435	1	29.4	12/15/08	WMC	CP3135	W19173.D	JA8427-1	12/20/08		1			1
A584	1	29.4	12/15/08	WMC	CP3135	W19173.D	JA8427-2	12/20/08		1			1

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC166	12/15/08	WMC	167	.083	12/20/08		141
FC297	12/15/08	WMC	167	.083	12/20/08		156

Accutest Bottle Order(s):
MM-12/15/2008-10

Prep Date	Room Temp(F)	Bar Pres "Hg
12/15/08	69.8	30.03

Internal Sample Tracking Chronicle

MWH

Job No: JA8427

El Dorado, Topeka Street (1800 North), El Dorado, KS
Project No: 1914351

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA8427-1 VP-01	Collected: 18-DEC-08 11:28 By: DEM		Received: 19-DEC-08 By:			
JA8427-1	TO-15	06-JAN-09 17:48	YMH			VTO15SL+
JA8427-2 VP-100	Collected: 18-DEC-08 11:42 By: DEM		Received: 19-DEC-08 By:			
JA8427-2	TO-15	06-JAN-09 18:29	YMH			VTO15SL+

Accutest Internal Chain of Custody

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS
Received: 12/19/08

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA8427-1.1	Robert Lofrano	Air Storage	12/19/08 14:00	Return to Storage
JA8427-1.1	Air Storage	Youmin Hu	01/02/09 17:26	Retrieve from Storage
JA8427-1.1	Youmin Hu	GCMS2W	01/02/09 17:26	Load on Instrument
JA8427-1.1	GCMS2W	Youmin Hu	01/05/09 10:23	Unload from Instrument
JA8427-1.1	Youmin Hu	Air Storage	01/05/09 10:23	Return to Storage
JA8427-1.1	Air Storage	Youmin Hu	01/05/09 16:38	Retrieve from Storage
JA8427-1.1	Youmin Hu	GCMS2W	01/05/09 16:38	Load on Instrument
JA8427-1.1	GCMS2W	Youmin Hu	01/06/09 12:02	Unload from Instrument
JA8427-1.1	Youmin Hu	Air Storage	01/06/09 12:02	Return to Storage
JA8427-1.1	Air Storage	Youmin Hu	01/06/09 16:39	Retrieve from Storage
JA8427-1.1	Youmin Hu	GCMSW	01/06/09 16:39	Load on Instrument
JA8427-1.1	GCMSW	Youmin Hu	01/07/09 10:15	Unload from Instrument
JA8427-1.1	Youmin Hu	Air Storage	01/07/09 10:15	Return to Storage
JA8427-2.1	Robert Lofrano	Air Storage	12/19/08 14:00	Return to Storage
JA8427-2.1	Air Storage	Youmin Hu	01/02/09 17:26	Retrieve from Storage
JA8427-2.1	Youmin Hu	GCMS2W	01/02/09 17:26	Load on Instrument
JA8427-2.1	GCMS2W	Youmin Hu	01/05/09 10:23	Unload from Instrument
JA8427-2.1	Youmin Hu	Air Storage	01/05/09 10:23	Return to Storage
JA8427-2.1	Air Storage	Youmin Hu	01/05/09 16:38	Retrieve from Storage
JA8427-2.1	Youmin Hu	GCMS2W	01/05/09 16:38	Load on Instrument
JA8427-2.1	GCMS2W	Youmin Hu	01/06/09 12:02	Unload from Instrument
JA8427-2.1	Youmin Hu	Air Storage	01/06/09 12:02	Return to Storage
JA8427-2.1	Air Storage	Youmin Hu	01/06/09 16:39	Retrieve from Storage
JA8427-2.1	Youmin Hu	GCMSW	01/06/09 16:39	Load on Instrument
JA8427-2.1	GCMSW	Youmin Hu	01/07/09 10:15	Unload from Instrument
JA8427-2.1	Youmin Hu	Air Storage	01/07/09 10:15	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2008

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Acetone	4-Jan-08	0.1	0.16	0.16	0.16	0.14	0.13	0.15	0.17	0.15	152.27	0.01	0.04	2.26
1,3-Butadiene	22-Jan-08	0.1	0.14	0.15	0.18	0.14	0.17	0.14	0.16	0.15	154.25	0.02	0.05	1.86
Benzene	22-Jan-08	0.1	0.11	0.11	0.11	0.12	0.12	0.13	0.11	0.12	116.36	0.01	0.02	5.88
Bromodichloromethane	3-Jan-08	0.1	0.11	0.11	0.12	0.13	0.12	0.13	0.13	0.12	123.04	0.01	0.02	4.33
Bromoform	3-Jan-08	0.2	0.17	0.18	0.15	0.15	0.15	0.15	0.16	0.16	79.03	0.01	0.03	6.90
Bromomethane	22-Jan-08	0.1	0.14	0.14	0.14	0.15	0.15	0.17	0.15	0.15	148.16	0.01	0.03	3.19
Bromoethene	22-Jan-08	0.1	0.14	0.13	0.13	0.15	0.14	0.16	0.13	0.14	139.17	0.01	0.03	3.16
Benzyl Chloride	22-Jan-08	0.1	0.08	0.06	0.06	0.08	0.08	0.06	0.08	0.07	70.75	0.01	0.04	2.71
Carbon disulfide	22-Jan-08	0.1	0.13	0.13	0.13	0.13	0.13	0.14	0.13	0.13	132.41	0.01	0.02	5.67
Chlorobenzene	3-Jan-08	0.1	0.13	0.12	0.11	0.12	0.14	0.12	0.11	0.12	123.25	0.01	0.03	3.59
Chloroethane	4-Jan-08	0.1	0.14	0.13	0.14	0.15	0.14	0.14	0.16	0.14	142.18	0.01	0.03	3.82
Chloroform	22-Jan-08	0.1	0.11	0.11	0.11	0.12	0.12	0.13	0.11	0.11	113.44	0.01	0.02	4.87
Chloromethane	3-Jan-08	0.1	0.14	0.15	0.16	0.18	0.15	0.15	0.16	0.15	154.15	0.01	0.04	2.58
3-Chloropropene	3-Jan-08	0.2	0.19	0.19	0.18	0.17	0.20	0.18	0.19	0.19	93.41	0.01	0.03	6.91
2-Chlorotoluene	22-Jan-08	0.1	0.10	0.08	0.08	0.10	0.10	0.10	0.09	0.09	91.45	0.01	0.02	4.51
Carbon tetrachloride	3-Jan-08	0.2	0.23	0.24	0.22	0.23	0.21	0.22	0.23	0.23	113.24	0.01	0.03	7.37
Cyclohexane	3-Jan-08	0.1	0.13	0.12	0.14	0.16	0.13	0.14	0.13	0.14	136.87	0.01	0.03	2.94
1,1-Dichloroethane	3-Jan-08	0.1	0.13	0.13	0.13	0.15	0.13	0.14	0.13	0.13	133.37	0.01	0.02	4.69
1,1-Dichloroethylene	3-Jan-08	0.2	0.23	0.26	0.24	0.23	0.26	0.26	0.25	0.25	123.64	0.01	0.04	5.07
1,2-Dibromoethane	22-Jan-08	0.1	0.11	0.09	0.09	0.11	0.11	0.10	0.10	0.10	101.62	0.01	0.03	3.34
1,2-Dichloroethane	3-Jan-08	0.1	0.13	0.13	0.14	0.16	0.13	0.13	0.15	0.14	138.60	0.01	0.04	2.62
1,2-Dichloropropane	3-Jan-08	0.1	0.12	0.12	0.12	0.15	0.13	0.13	0.12	0.13	125.77	0.01	0.03	3.46
1,4-Dioxane	3-Jan-08	0.1	0.09	0.09	0.06	0.08	0.09	0.09	0.06	0.08	80.60	0.01	0.05	2.18
Dichlorodifluoromethane	3-Jan-08	0.1	0.14	0.15	0.15	0.17	0.14	0.16	0.16	0.15	152.56	0.01	0.03	3.33
Dibromochloromethane	4-Jan-08	0.2	0.23	0.23	0.22	0.22	0.22	0.22	0.23	0.22	110.91	0.01	0.02	10.70
trans-1,2-Dichloroethylene	4-Jan-08	0.1	0.18	0.17	0.17	0.18	0.19	0.17	0.19	0.18	177.13	0.01	0.02	4.27
cis-1,2-Dichloroethylene	3-Jan-08	0.2	0.24	0.24	0.22	0.22	0.24	0.23	0.23	0.23	115.67	0.01	0.03	7.28
cis-1,3-Dichloropropene	22-Jan-08	0.1	0.11	0.08	0.09	0.10	0.10	0.10	0.10	0.10	97.18	0.01	0.03	3.65
m-Dichlorobenzene	22-Jan-08	0.1	0.11	0.07	0.07	0.10	0.11	0.09	0.10	0.09	92.98	0.01	0.04	2.27
o-Dichlorobenzene	22-Jan-08	0.1	0.10	0.08	0.07	0.10	0.11	0.09	0.10	0.09	92.49	0.01	0.04	2.50
p-Dichlorobenzene	22-Jan-08	0.1	0.11	0.07	0.07	0.10	0.10	0.08	0.10	0.09	91.70	0.01	0.04	2.25
trans-1,3-Dichloropropene	22-Jan-08	0.1	0.09	0.07	0.07	0.09	0.09	0.09	0.09	0.09	85.28	0.01	0.03	3.16
Ethanol	3-Jan-08	0.1	0.15	0.16	0.13	0.14	0.16	0.17	0.13	0.15	150.73	0.02	0.05	2.12
Ethylbenzene	22-Jan-08	0.1	0.10	0.09	0.09	0.10	0.10	0.10	0.09	0.10	95.25	0.01	0.02	5.45
Ethyl Acetate	4-Jan-08	0.2	0.19	0.22	0.20	0.20	0.18	0.22	0.21	0.20	100.75	0.01	0.05	4.35
4-Ethyltoluene	3-Jan-08	0.2	0.19	0.18	0.16	0.16	0.18	0.17	0.16	0.17	85.73	0.01	0.04	5.49
Freon 113	22-Jan-08	0.1	0.14	0.13	0.13	0.14	0.13	0.15	0.13	0.14	135.18	0.01	0.02	4.98

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: TO-15 (VTO14/15)
Instrument(s): GCMS2W, GCMS3W, GCMSW
Analyst: Pooled

Matrix: AIR
Quant Factor: 1.00
Study Period: January,2008

Cmpd./Element/Parm. Name	Analysis Date	Spike ppbv	Replicate Spikes R1 ppbv	R2 ppbv	R3 ppbv	R4 ppbv	R5 ppbv	R6 ppbv	R7 ppbv	X-Bar ppbv	X-Bar %Recov.	STD.Dev. ppbv	MDL	Spike/MDL Ratio
Freon 114	22-Jan-08	0.1	0.14	0.14	0.15	0.15	0.15	0.16	0.15	0.15	148.50	0.01	0.03	3.74
Heptane	3-Jan-08	0.1	0.14	0.14	0.14	0.16	0.14	0.15	0.14	0.14	144.44	0.01	0.02	4.85
Hexachlorobutadiene	22-Jan-08	0.1	0.13	0.08	0.09	0.14	0.15	0.11	0.13	0.12	119.71	0.03	0.08	1.20
Hexane	4-Jan-08	0.2	0.26	0.25	0.26	0.27	0.29	0.30	0.28	0.27	135.34	0.02	0.05	3.70
2-Hexanone	22-Jan-08	0.1	0.08	0.06	0.06	0.08	0.08	0.08	0.08	0.08	75.55	0.01	0.02	4.02
Isopropylbenzene	22-Jan-08	0.1	0.10	0.08	0.08	0.09	0.09	0.10	0.09	0.09	91.06	0.01	0.02	5.48
Isopropyl Alcohol	22-Jan-08	0.1	0.13	0.12	0.13	0.14	0.15	0.15	0.15	0.14	138.94	0.01	0.04	2.82
Methylene chloride	4-Jan-08	0.1	0.24	0.27	0.26	0.27	0.25	0.24	0.25	0.25	254.49	0.01	0.04	2.48
Methyl ethyl ketone	3-Jan-08	0.1	0.09	0.08	0.06	0.07	0.08	0.08	0.06	0.07	72.20	0.01	0.04	2.59
Methyl Isobutyl Ketone	22-Jan-08	0.1	0.08	0.07	0.07	0.09	0.09	0.09	0.08	0.08	81.94	0.01	0.02	4.61
Methyl Tert Butyl Ether	22-Jan-08	0.1	0.10	0.10	0.09	0.10	0.10	0.11	0.10	0.10	99.66	0.01	0.02	5.45
Methylmethacrylate	4-Jan-08	0.1	0.10	0.11	0.12	0.12	0.12	0.12	0.12	0.12	117.71	0.01	0.02	4.29
Nonane	3-Jan-08	0.1	0.12	0.13	0.12	0.15	0.12	0.13	0.12	0.13	128.52	0.01	0.03	3.76
Pentane	3-Jan-08	0.1	0.18	0.19	0.20	0.22	0.16	0.20	0.19	0.19	191.49	0.02	0.06	1.71
Propylene	3-Jan-08	0.2	0.27	0.27	0.28	0.27	0.24	0.25	0.25	0.26	131.15	0.02	0.05	3.77
Styrene	22-Jan-08	0.1	0.08	0.07	0.06	0.08	0.08	0.08	0.07	0.07	72.83	0.01	0.02	4.36
1,1,1-Trichloroethane	3-Jan-08	0.1	0.13	0.13	0.14	0.15	0.13	0.15	0.14	0.14	138.71	0.01	0.03	3.81
1,1,2,2-Tetrachloroethane	22-Jan-08	0.1	0.10	0.09	0.09	0.10	0.10	0.11	0.10	0.10	96.46	0.01	0.02	4.12
1,1,2-Trichloroethane	22-Jan-08	0.1	0.11	0.10	0.10	0.11	0.10	0.11	0.11	0.10	104.15	0.01	0.02	4.98
1,2,4-Trichlorobenzene	22-Jan-08	0.1	0.10	0.05	0.05	0.09	0.09	0.06	0.09	0.08	77.37	0.02	0.07	1.51
1,2,4-Trimethylbenzene	22-Jan-08	0.1	0.08	0.06	0.06	0.08	0.08	0.08	0.07	0.07	73.32	0.01	0.02	4.12
1,3,5-Trimethylbenzene	22-Jan-08	0.1	0.08	0.07	0.07	0.08	0.08	0.09	0.08	0.08	79.19	0.01	0.02	4.74
2,2,4-Trimethylpentane	3-Jan-08	0.2	0.24	0.25	0.23	0.23	0.23	0.23	0.24	0.24	118.96	0.01	0.03	7.62
Tertiary Butyl Alcohol	22-Jan-08	0.1	0.11	0.10	0.09	0.11	0.11	0.12	0.10	0.10	104.65	0.01	0.03	3.69
Tetrachloroethylene	3-Jan-08	0.1	0.13	0.12	0.12	0.14	0.13	0.13	0.11	0.13	127.57	0.01	0.03	3.76
Tetrahydrofuran	3-Jan-08	0.1	0.11	0.12	0.11	0.13	0.11	0.12	0.11	0.12	115.52	0.01	0.03	3.76
Toluene	3-Jan-08	0.1	0.11	0.11	0.10	0.11	0.11	0.11	0.10	0.11	107.33	0.01	0.02	5.09
Trichloroethylene	4-Jan-08	0.2	0.26	0.28	0.27	0.26	0.27	0.26	0.26	0.27	132.97	0.01	0.03	6.91
Trichlorofluoromethane	3-Jan-08	0.2	0.24	0.26	0.24	0.25	0.23	0.24	0.25	0.24	122.14	0.01	0.03	6.92
Vinyl chloride	22-Jan-08	0.1	0.14	0.14	0.14	0.15	0.15	0.17	0.15	0.15	148.64	0.01	0.03	3.21
Vinyl Acetate	3-Jan-08	0.2	0.15	0.18	0.15	0.13	0.16	0.15	0.09	0.14	72.28	0.03	0.09	2.27
m,p-Xylene	3-Jan-08	0.2	0.28	0.22	0.20	0.22	0.27	0.23	0.21	0.23	116.29	0.03	0.10	2.00
o-Xylene	3-Jan-08	0.1	0.11	0.10	0.09	0.11	0.11	0.10	0.09	0.10	103.36	0.01	0.03	3.89
TVHC As Equiv Pentane	4-Jan-08	0.1	0.16	0.18	0.20	0.16	0.14	0.16	0.15	0.16	164.67	0.02	0.06	1.55
TVHC As Equiv Heptane	3-Jan-08	0.1	0.15	0.14	0.14	0.17	0.15	0.17	0.14	0.15	148.73	0.01	0.04	2.48

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW834-MB	W19567.D	1	01/06/09	YMH	n/a	n/a	VW834

The QC reported here applies to the following samples: Method: TO-15

JA8427-1, JA8427-2

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	ppbv		ND	0.48	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
98-82-8	Isopropylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
91-20-3	Naphthalene	ND	0.50	ppbv		ND	2.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	78-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW818-MB	W19152.D	1	12/10/08	YMH	n/a	n/a	VW818

The QC reported here applies to the following samples: Method: TO-15

VW818-SCC

CAS No.	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	ppbv		ND	0.48	ug/m3
71-43-2	Benzene	ND	0.20	ppbv		ND	0.64	ug/m3
75-00-3	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
100-41-4	Ethylbenzene	ND	0.20	ppbv		ND	0.87	ug/m3
98-82-8	Isopropylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	ppbv		ND	0.59	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
91-20-3	Naphthalene	ND	0.50	ppbv		ND	2.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
108-88-3	Toluene	ND	0.20	ppbv		ND	0.75	ug/m3
75-01-4	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	78-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW834-BS	W19564.D	1	01/06/09	YMH	n/a	n/a	VW834
VW834-BSD	W19565.D	1	01/06/09	YMH	n/a	n/a	VW834

The QC reported here applies to the following samples: Method: TO-15

JA8427-1, JA8427-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.1	81	8.3	83	2	70-130/30
71-43-2	Benzene	10	8.4	84	8.7	87	4	70-130/30
75-00-3	Chloroethane	10	7.9	79	8.0	80	1	70-130/30
75-34-3	1,1-Dichloroethane	10	9.0	90	9.2	92	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.2	82	8.6	86	5	70-130/30
100-41-4	Ethylbenzene	10	9.4	94	9.8	98	4	70-130/30
98-82-8	Isopropylbenzene	10	10.2	102	10.7	107	5	70-130/30
78-93-3	Methyl ethyl ketone	10	8.5	85	8.8	88	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	10.3	103	4	70-130/30
91-20-3	Naphthalene		ND		ND		nc	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.3	103	10.7	107	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.0	100	10.5	105	5	70-130/30
108-88-3	Toluene	10	8.9	89	9.3	93	4	70-130/30
75-01-4	Vinyl chloride	10	7.8	78	8.1	81	4	70-130/30
1330-20-7	Xylenes (total)	30	26.7	89	28.0	93	5	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	116%	115%	78-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW818-BS	W19150.D	1	12/10/08	YMH	n/a	n/a	VW818
VW818-BSD	W19151.D	1	12/10/08	YMH	n/a	n/a	VW818

The QC reported here applies to the following samples: Method: TO-15

VW818-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.4	94	9.4	94	0	70-130/30
71-43-2	Benzene	10	9.0	90	9.3	93	3	70-130/30
75-00-3	Chloroethane	10	8.8	88	9.1	91	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.5	95	9.5	95	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.7	87	9.0	90	3	70-130/30
100-41-4	Ethylbenzene	10	9.9	99	10.1	101	2	70-130/30
98-82-8	Isopropylbenzene	10	10.9	109	11.1	111	2	70-130/30
78-93-3	Methyl ethyl ketone	10	9.6	96	9.7	97	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.9	99	10	100	1	70-130/30
91-20-3	Naphthalene		ND		ND		nc	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.8	108	11.0	110	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.6	106	10.8	108	2	70-130/30
108-88-3	Toluene	10	9.2	92	9.5	95	3	70-130/30
75-01-4	Vinyl chloride	10	8.7	87	8.9	89	2	70-130/30
1330-20-7	Xylenes (total)	30	29.9	100	30.5	102	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	102%	78-124%

Duplicate Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA8551-6DUP	W19573.D	240	01/06/09	YMH	n/a	n/a	VW834
JA8551-6	W19572.D	240	01/06/09	YMH	n/a	n/a	VW834

The QC reported here applies to the following samples: Method: TO-15

JA8427-1, JA8427-2

CAS No.	Compound	JA8551-6 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	24
71-43-2	Benzene	2980		2970		0	14
75-00-3	Chloroethane	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10
100-41-4	Ethylbenzene	ND		ND		nc	17
98-82-8	Isopropylbenzene	ND		ND		nc	10
78-93-3	Methyl ethyl ketone	ND		ND		nc	21
1634-04-4	Methyl Tert Butyl Ether	85900	E	73000	E	16	16
91-20-3	Naphthalene	ND		ND		nc	10
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	15
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	12
108-88-3	Toluene	ND		ND		nc	13
75-01-4	Vinyl chloride	ND		ND		nc	10
1330-20-7	Xylenes (total)	ND		ND		nc	16

CAS No.	Surrogate Recoveries	DUP	JA8551-6	Limits
460-00-4	4-Bromofluorobenzene	100%	105%	78-124%

Summa Cleaning Certification

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW818-SCC	W19173.D	1	12/11/08	YMH	n/a	n/a	VW818

The QC reported here (Summa A505) applies to the following samples: Method: TO-15

Batch CP3135 cleaned 12/05/08: JA8427-1(A435), JA8427-2(A584)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.044	ppbv		ND	0.48	ug/m3
71-43-2	Benzene	ND	0.20	0.017	ppbv		ND	0.64	ug/m3
75-00-3	Chloroethane	ND	0.20	0.026	ppbv		ND	0.53	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
98-82-8	Isopropylbenzene	ND	0.20	0.018	ppbv		ND	0.98	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.039	ppbv		ND	0.59	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv		ND	0.72	ug/m3
91-20-3	Naphthalene	ND	0.50		ppbv		ND	2.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m3
108-88-3	Toluene	ND	0.20	0.020	ppbv		ND	0.75	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.031	ppbv		ND	0.51	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.026	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	78-124%

Instrument Performance Check (BFB)

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample:	VW816-BFB	Injection Date:	12/08/08
Lab File ID:	W19110.D	Injection Time:	20:12
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12876	15.2		Pass
75	30.0 - 66.0% of mass 95	37240	44.0		Pass
95	Base peak, 100% relative abundance	84586	100.0		Pass
96	5.0 - 9.0% of mass 95	5640	6.7		Pass
173	Less than 2.0% of mass 174	395	0.47	(0.56) [a]	Pass
174	50.0 - 120.0% of mass 95	70133	82.9		Pass
175	4.0 - 9.01% of mass 174	4963	5.9	(7.1) [a]	Pass
176	93.0 - 101.0% of mass 174	68213	80.6	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4422	5.2	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW816-IC816	W19112.D	12/08/08	21:32	01:20	Initial cal 0.2
VW816-ICC816	W19113.D	12/08/08	22:12	02:00	Initial cal 10
VW816-IC816	W19114.D	12/08/08	22:52	02:40	Initial cal 1.0
VW816-IC816	W19115.D	12/08/08	23:33	03:21	Initial cal 20
VW816-IC816	W19116.D	12/09/08	00:13	04:01	Initial cal 5.0
VW816-IC816	W19117.D	12/09/08	00:53	04:41	Initial cal 0.5
VW816-IC816	W19118.D	12/09/08	01:33	05:21	Initial cal 10
VW816-IC816	W19119.D	12/09/08	02:13	06:01	Initial cal 40
VW816-IC816	W19120.D	12/09/08	02:53	06:41	Initial cal 0.2

Instrument Performance Check (BFB)

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample:	VW818-BFB	Injection Date:	12/10/08
Lab File ID:	W19147.D	Injection Time:	08:24
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10934	17.8		Pass
75	30.0 - 66.0% of mass 95	30277	49.2		Pass
95	Base peak, 100% relative abundance	61514	100.0		Pass
96	5.0 - 9.0% of mass 95	4250	6.9		Pass
173	Less than 2.0% of mass 174	259	0.42	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	45416	73.8		Pass
175	4.0 - 9.01% of mass 174	3194	5.2	(7.0) [a]	Pass
176	93.0 - 101.0% of mass 174	43882	71.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2812	4.6	(6.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW818-CC816	W19149.D	12/10/08	10:24	02:00	Continuing cal 5
VW818-BS	W19150.D	12/10/08	11:05	02:41	Blank Spike
VW818-BSD	W19151.D	12/10/08	11:45	03:21	Blank Spike Duplicate
VW818-MB	W19152.D	12/10/08	12:32	04:08	Method Blank
ZZZZZZ	W19153.D	12/10/08	13:14	04:50	(unrelated sample)
VW818-SCC	W19154.D	12/10/08	13:55	05:31	Summa Cleaning Certification
ZZZZZZ	W19155.D	12/10/08	15:16	06:52	(unrelated sample)
ZZZZZZ	W19156.D	12/10/08	15:57	07:33	(unrelated sample)
ZZZZZZ	W19157.D	12/10/08	16:37	08:13	(unrelated sample)
JA6425-1	W19158.D	12/10/08	17:18	08:54	(used for QC only; not part of job JA8427)
JA6425-1DUP	W19159.D	12/10/08	17:59	09:35	Duplicate
ZZZZZZ	W19160.D	12/10/08	19:20	10:56	(unrelated sample)
ZZZZZZ	W19161.D	12/10/08	20:01	11:37	(unrelated sample)
ZZZZZZ	W19162.D	12/10/08	20:41	12:17	(unrelated sample)
ZZZZZZ	W19163.D	12/10/08	21:22	12:58	(unrelated sample)
ZZZZZZ	W19164.D	12/10/08	22:43	14:19	(unrelated sample)
ZZZZZZ	W19165.D	12/10/08	23:24	15:00	(unrelated sample)
ZZZZZZ	W19166.D	12/11/08	00:04	15:40	(unrelated sample)
ZZZZZZ	W19167.D	12/11/08	00:45	16:21	(unrelated sample)
ZZZZZZ	W19168.D	12/11/08	01:26	17:02	(unrelated sample)
ZZZZZZ	W19169.D	12/11/08	02:47	18:23	(unrelated sample)
ZZZZZZ	W19170.D	12/11/08	03:28	19:04	(unrelated sample)
ZZZZZZ	W19171.D	12/11/08	04:08	19:44	(unrelated sample)
ZZZZZZ	W19172.D	12/11/08	04:49	20:25	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample:	VW818-BFB	Injection Date:	12/10/08
Lab File ID:	W19147.D	Injection Time:	08:24
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW818-SCC	W19173.D	12/11/08	06:10	21:46	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample:	VW830-BFB	Injection Date:	12/30/08
Lab File ID:	W19470.D	Injection Time:	17:10
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14339	19.5		Pass
75	30.0 - 66.0% of mass 95	37690	51.2		Pass
95	Base peak, 100% relative abundance	73584	100.0		Pass
96	5.0 - 9.0% of mass 95	5021	6.8		Pass
173	Less than 2.0% of mass 174	371	0.5	(0.65) [a]	Pass
174	50.0 - 120.0% of mass 95	56754	77.1		Pass
175	4.0 - 9.01% of mass 174	4004	5.4	(7.1) [a]	Pass
176	93.0 - 101.0% of mass 174	55178	75.0	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	3606	4.9	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW830-ICC830	W19471.D	12/30/08	17:51	00:41	Initial cal 10
VW830-IC830	W19472.D	12/30/08	18:31	01:21	Initial cal 1.0
VW830-IC830	W19474.D	12/30/08	19:52	02:42	Initial cal 0.2
VW830-IC830	W19475.D	12/30/08	20:33	03:23	Initial cal 20
VW830-IC830	W19476.D	12/30/08	21:13	04:03	Initial cal 5.0
VW830-IC830	W19477.D	12/30/08	21:53	04:43	Initial cal 0.5
VW830-IC830	W19478.D	12/30/08	22:34	05:24	Initial cal 10
VW830-IC830	W19479.D	12/30/08	23:14	06:04	Initial cal 40
VW830-IC830	W19480.D	12/30/08	23:55	06:45	Initial cal 0.2
VW830-ICV830	W19481.D	12/31/08	00:35	07:25	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample:	VW834-BFB	Injection Date:	01/06/09
Lab File ID:	W19561.D	Injection Time:	09:31
Instrument ID:	GCMSW		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11498	26.6		Pass
75	30.0 - 66.0% of mass 95	28444	65.8		Pass
95	Base peak, 100% relative abundance	43243	100.0		Pass
96	5.0 - 9.0% of mass 95	2672	6.2		Pass
173	Less than 2.0% of mass 174	283	0.65	(0.93) [a]	Pass
174	50.0 - 120.0% of mass 95	30542	70.6		Pass
175	4.0 - 9.01% of mass 174	2230	5.2	(7.3) [a]	Pass
176	93.0 - 101.0% of mass 174	29571	68.4	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1973	4.6	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VW834-CC830	W19563.D	01/06/09	11:01	01:30	Continuing cal 10
VW834-BS	W19564.D	01/06/09	12:24	02:53	Blank Spike
VW834-BSD	W19565.D	01/06/09	13:14	03:43	Blank Spike Duplicate
VW834-MB	W19567.D	01/06/09	15:02	05:31	Method Blank
ZZZZZZ	W19568.D	01/06/09	15:43	06:12	(unrelated sample)
ZZZZZZ	W19569.D	01/06/09	16:24	06:53	(unrelated sample)
JA8427-1	W19570.D	01/06/09	17:48	08:17	VP-01
JA8427-2	W19571.D	01/06/09	18:29	08:58	VP-100
JA8551-6	W19572.D	01/06/09	19:09	09:38	(used for QC only; not part of job JA8427)
JA8551-6DUP	W19573.D	01/06/09	19:50	10:19	Duplicate
ZZZZZZ	W19574.D	01/06/09	20:30	10:59	(unrelated sample)
ZZZZZZ	W19575.D	01/06/09	21:11	11:40	(unrelated sample)
ZZZZZZ	W19576.D	01/06/09	21:51	12:20	(unrelated sample)
VW834-SCC	W19577.D	01/06/09	22:32	13:01	Summa Cleaning Certification
ZZZZZZ	W19578.D	01/06/09	23:52	14:21	(unrelated sample)
ZZZZZZ	W19579.D	01/07/09	00:33	15:02	(unrelated sample)
ZZZZZZ	W19580.D	01/07/09	01:13	15:42	(unrelated sample)
ZZZZZZ	W19581.D	01/07/09	01:53	16:22	(unrelated sample)
ZZZZZZ	W19582.D	01/07/09	03:14	17:43	(unrelated sample)
ZZZZZZ	W19583.D	01/07/09	03:55	18:24	(unrelated sample)
ZZZZZZ	W19584.D	01/07/09	04:35	19:04	(unrelated sample)
ZZZZZZ	W19585.D	01/07/09	05:16	19:45	(unrelated sample)
VW834-SCC	W19586.D	01/07/09	06:37	21:06	Summa Cleaning Certification

Volatile Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Check Std:	VW818-CC816	Injection Date:	12/10/08
Lab File ID:	W19149.D	Injection Time:	10:24
Instrument ID:	GCMSW	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	155001	8.73	797127	10.45	674816	14.70
Upper Limit [a]	217001	9.06	1115978	10.78	944742	15.03
Lower Limit [b]	93001	8.40	478276	10.12	404890	14.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW818-BS	165639	8.76	825008	10.48	703875	14.72
VW818-BSD	169592	8.76	848433	10.47	725924	14.72
VW818-MB	160057	8.74	796254	10.46	644587	14.71
ZZZZZZ	151665	8.75	754765	10.46	621847	14.71
VW818-SCC	141695	8.74	714924	10.45	589726	14.71
ZZZZZZ	156759	8.76	774276	10.46	636894	14.71
ZZZZZZ	144458	8.74	723053	10.46	591927	14.71
ZZZZZZ	156973	8.74	795724	10.46	692014	14.71
JA6425-1	162763	8.74	828987	10.45	710393	14.71
JA6425-1DUP	164051	8.74	813025	10.46	686592	14.71
ZZZZZZ	162901	8.74	827234	10.46	685010	14.71
ZZZZZZ	158512	8.74	813685	10.46	668117	14.71
ZZZZZZ	156141	8.74	772176	10.46	645829	14.71
ZZZZZZ	164806	8.74	825692	10.46	697944	14.71
ZZZZZZ	161084	8.74	796351	10.46	667207	14.71
ZZZZZZ	146755	8.74	739926	10.45	613392	14.71
ZZZZZZ	139939	8.75	718382	10.46	593246	14.71
ZZZZZZ	132779	8.74	678356	10.46	557803	14.71
ZZZZZZ	129277	8.74	659717	10.46	536897	14.71
ZZZZZZ	148090	8.74	745267	10.46	607541	14.71
ZZZZZZ	137237	8.74	689819	10.46	559073	14.71
ZZZZZZ	133698	8.74	670020	10.46	548076	14.71
ZZZZZZ	138037	8.75	693074	10.46	561368	14.71
VW818-SCC	139623	8.74	671063	10.46	542752	14.71

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Volatile Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Check Std:	VW834-CC830	Injection Date:	01/06/09
Lab File ID:	W19563.D	Injection Time:	11:01
Instrument ID:	GCMSW	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	95205	8.69	465040	10.40	399725	14.66
Upper Limit [a]	133287	9.02	651056	10.73	559615	14.99
Lower Limit [b]	57123	8.36	279024	10.07	239835	14.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VW834-BS	99844	8.69	487250	10.40	425696	14.66
VW834-BSD	95707	8.69	467331	10.40	408038	14.65
VW834-MB	94829	8.69	475923	10.40	377199	14.66
ZZZZZZ	83627	8.70	429120	10.40	344729	14.66
ZZZZZZ	79593	8.70	396318	10.41	325541	14.67
JA8427-1	103721	8.72	516144	10.42	425240	14.67
JA8427-2	101080	8.72	502092	10.42	406224	14.67
JA8551-6	112548	8.77	565293	10.47	481113	14.68
JA8551-6DUP	122473	8.77	627562	10.47	544770	14.68
ZZZZZZ	126459	8.71	649535	10.42	547011	14.67
ZZZZZZ	124442	8.71	644995	10.42	544436	14.67
ZZZZZZ	120786	8.74	591339	10.45	502037	14.67
VW834-SCC	111270	8.71	559432	10.42	477017	14.67
ZZZZZZ	107578	8.70	556404	10.41	469714	14.67
ZZZZZZ	98334	8.72	510289	10.42	426571	14.67
ZZZZZZ	95056	8.72	501103	10.42	416510	14.67
ZZZZZZ	92919	8.71	478232	10.42	396599	14.67
ZZZZZZ	100758	8.71	516924	10.42	427149	14.67
ZZZZZZ	96579	8.71	499791	10.42	414525	14.67
ZZZZZZ	92108	8.72	467617	10.42	381528	14.67
ZZZZZZ	91051	8.72	475904	10.42	391933	14.67
VW834-SCC	90057	8.71	455975	10.42	373147	14.67

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	Reporting this level
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.26	8.74	0.716	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.74	0.605	ok	0.605	0.545-0.665
Benzene	10.16	10.45	0.972	ok	0.972	0.912-1.032
Bromodichloromethane	11.09	10.45	1.061	ok	1.061	1.001-1.121
Bromoform	15.43	14.71	1.049	ok	1.050	0.990-1.110
Bromomethane	5.54	8.74	0.634	ok	0.632	0.572-0.692
Bromoethene	5.96	8.74	0.682	ok	0.682	0.622-0.742
n-Butane	5.34	8.74	0.611	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.71	1.218	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.74	0.824	ok	0.824	0.764-0.884
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.76	8.74	0.545	ok	0.543	0.483-0.603
Chloroethane	5.67	8.74	0.649	ok	0.648	0.588-0.708
Chloroform	8.84	8.74	1.011	ok	1.012	0.952-1.072
Chloromethane	5.00	8.74	0.572	ok	0.571	0.511-0.631
3-Chloropropene	7.01	8.74	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.01	14.71	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.29	8.74	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.45	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.74	0.900	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.82	8.74	0.780	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.59	14.71	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.74	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.91	10.45	1.044	ok	1.044	0.984-1.104
1,4-Dioxane	11.29	10.45	1.080	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.74	0.554	ok	0.554	0.494-0.614
Dibromochloromethane	13.34	14.71	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.74	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.74	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.45	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.71	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.44	10.45	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.59	10.45	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.52	8.74	1.089	ok	1.090	1.030-1.150
Ethanol	5.92	8.74	0.677	ok	0.670	0.610-0.730
Ethylbenzene	15.13	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.82	8.74	1.009	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	Reporting this level
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.20	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.12	8.74	0.815	ok	0.814	0.754-0.874
Freon 114	5.07	8.74	0.580	ok	0.580	0.520-0.640
Freon 123	6.05	8.74	0.692	ok	0.693	0.633-0.753
Freon 152A	4.71	8.74	0.539	ok	0.538	0.478-0.598
Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.71	1.415	ok	1.414	1.354-1.474
Hexane	8.74	8.74	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.22	14.71	0.899	ok	0.897	0.837-0.957
Isopropylbenzene	16.47	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.54	8.74	0.748	ok	0.739	0.679-0.799
Methylene chloride	6.91	8.74	0.791	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.30	8.74	0.950	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.05	10.45	1.153	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.99	8.74	0.914	ok	0.910	0.850-0.970
Methylmethacrylate	11.33	10.45	1.084	ok	1.082	1.022-1.142
Nonane	16.03	14.71	1.090	ok	1.090	1.030-1.150
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812
Propylene	4.78	8.74	0.547	ok	0.546	0.486-0.606
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.74	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.84	14.71	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.63	10.45	1.209	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.71	1.381	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.74	14.71	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.13	10.45	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	7.04	8.74	0.805	ok	0.797	0.737-0.857
Tetrachloroethylene	14.04	14.71	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.36	8.74	1.071	ok	1.063	1.003-1.123
Toluene	12.90	10.45	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.12	10.45	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.74	0.720	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.74	0.593	ok	0.593	0.533-0.653
Vinyl Acetate	8.01	8.74	0.916	ok	0.914	0.854-0.974
m,p-Xylene	15.32	14.71	1.041	ok	1.042	0.982-1.102
o-Xylene	15.83	14.71	1.076	ok	1.076	1.016-1.136

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	Reporting this level
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	172976	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	861369	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	714402	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	Reporting this level
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.18	8.74	0.707	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.74	0.605	ok	0.605	0.545-0.665
Benzene	10.16	10.46	0.971	ok	0.972	0.912-1.032
Bromodichloromethane	11.10	10.46	1.061	ok	1.061	1.001-1.121
Bromoform	15.44	14.71	1.050	ok	1.050	0.990-1.110
Bromomethane	5.52	8.74	0.632	ok	0.632	0.572-0.692
Bromoethene	5.96	8.74	0.682	ok	0.682	0.622-0.742
n-Butane	5.34	8.74	0.611	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.71	1.218	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.74	0.824	ok	0.824	0.764-0.884
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.74	0.542	ok	0.543	0.483-0.603
Chloroethane	5.66	8.74	0.648	ok	0.648	0.588-0.708
Chloroform	8.85	8.74	1.013	ok	1.012	0.952-1.072
Chloromethane	4.99	8.74	0.571	ok	0.571	0.511-0.631
3-Chloropropene	7.00	8.74	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	17.02	14.71	1.157	ok	1.156	1.096-1.216
Carbon tetrachloride	10.29	8.74	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.41	10.46	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.74	0.900	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.81	8.74	0.779	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.60	14.71	0.925	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.74	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.91	10.46	1.043	ok	1.044	0.984-1.104
1,4-Dioxane	11.18	10.46	1.069	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.74	0.554	ok	0.554	0.494-0.614
Dibromochloromethane	13.35	14.71	0.908	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.74	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.58	8.74	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.46	1.141	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.71	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.45	10.46	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.60	10.46	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.53	8.74	1.090	ok	1.090	1.030-1.150
Ethanol	5.81	8.74	0.665	ok	0.670	0.610-0.730
Ethylbenzene	15.14	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.74	1.005	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	Reporting this level
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.20	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.74	0.814	ok	0.814	0.754-0.874
Freon 114	5.07	8.74	0.580	ok	0.580	0.520-0.640
Freon 123	6.05	8.74	0.692	ok	0.693	0.633-0.753
Freon 152A	4.70	8.74	0.538	ok	0.538	0.478-0.598
Heptane	11.37	10.46	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.71	1.415	ok	1.414	1.354-1.474
Hexane	8.74	8.74	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.18	14.71	0.896	ok	0.897	0.837-0.957
Isopropylbenzene	16.48	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.41	8.74	0.733	ok	0.739	0.679-0.799
Methylene chloride	6.90	8.74	0.789	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.23	8.74	0.942	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.00	10.46	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.93	8.74	0.907	ok	0.910	0.850-0.970
Methylmethacrylate	11.31	10.46	1.081	ok	1.082	1.022-1.142
Nonane	16.04	14.71	1.090	ok	1.090	1.030-1.150
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812
Propylene	4.77	8.74	0.546	ok	0.546	0.486-0.606
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.74	8.74	1.114	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.84	14.71	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.64	10.46	1.208	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.71	1.381	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.74	14.71	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.14	10.46	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.91	8.74	0.791	ok	0.797	0.737-0.857
Tetrachloroethylene	14.05	14.71	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.26	8.74	1.059	ok	1.063	1.003-1.123
Toluene	12.91	10.46	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.13	10.46	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.74	0.720	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.74	0.593	ok	0.593	0.533-0.653
Vinyl Acetate	7.97	8.74	0.912	ok	0.914	0.854-0.974
m,p-Xylene	15.33	14.71	1.042	ok	1.042	0.982-1.102
o-Xylene	15.84	14.71	1.077	ok	1.076	1.016-1.136
TVHC As Equiv Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	Reporting this level
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.37	10.46	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	173198	ok	178595	107157-250033
1,4-Difluorobenzene	10.46	ok	10.46	10.13-10.79	862824	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	765413	ok	750689	450413-1050965

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
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VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.23	8.73	0.714	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.73	0.606	ok	0.605	0.545-0.665
Benzene	10.15	10.45	0.971	ok	0.972	0.912-1.032
Bromodichloromethane	11.09	10.45	1.061	ok	1.061	1.001-1.121
Bromoform	15.43	14.71	1.049	ok	1.050	0.990-1.110
Bromomethane	5.52	8.73	0.632	ok	0.632	0.572-0.692
Bromoethene	5.96	8.73	0.683	ok	0.682	0.622-0.742
n-Butane	5.34	8.73	0.612	ok	0.611	0.551-0.671
Benzyl Chloride	17.90	14.71	1.217	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.73	0.825	ok	0.824	0.764-0.884
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.73	0.543	ok	0.543	0.483-0.603
Chloroethane	5.66	8.73	0.648	ok	0.648	0.588-0.708
Chloroform	8.84	8.73	1.013	ok	1.012	0.952-1.072
Chloromethane	4.98	8.73	0.570	ok	0.571	0.511-0.631
3-Chloropropene	7.00	8.73	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.01	14.71	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.29	8.73	1.179	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.45	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.73	0.901	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.81	8.73	0.780	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.58	14.71	0.923	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.73	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.91	10.45	1.044	ok	1.044	0.984-1.104
1,4-Dioxane	11.24	10.45	1.076	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.73	0.554	ok	0.554	0.494-0.614
Dibromochloromethane	13.33	14.71	0.906	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.73	0.881	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.58	8.73	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.45	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.71	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.44	10.45	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.59	10.45	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.52	8.73	1.090	ok	1.090	1.030-1.150
Ethanol	5.87	8.73	0.672	ok	0.670	0.610-0.730
Ethylbenzene	15.13	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.73	1.008	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.20	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.73	0.814	ok	0.814	0.754-0.874
Freon 114	5.06	8.73	0.580	ok	0.580	0.520-0.640
Freon 123	6.05	8.73	0.693	ok	0.693	0.633-0.753
Freon 152A	4.70	8.73	0.538	ok	0.538	0.478-0.598
Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.71	1.415	ok	1.414	1.354-1.474
Hexane	8.74	8.73	1.001	ok	1.000	0.940-1.060
2-Hexanone	13.20	14.71	0.897	ok	0.897	0.837-0.957
Isopropylbenzene	16.47	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.47	8.73	0.741	ok	0.739	0.679-0.799
Methylene chloride	6.90	8.73	0.790	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.26	8.73	0.946	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.02	10.45	1.150	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.96	8.73	0.912	ok	0.910	0.850-0.970
Methylmethacrylate	11.31	10.45	1.082	ok	1.082	1.022-1.142
Nonane	16.03	14.71	1.090	ok	1.090	1.030-1.150
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.73	0.753	ok	0.752	0.692-0.812
Propylene	4.77	8.73	0.546	ok	0.546	0.486-0.606
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.73	1.115	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.83	14.71	1.076	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.63	10.45	1.209	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.71	1.381	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.74	14.71	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.13	10.45	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.98	8.73	0.800	ok	0.797	0.737-0.857
Tetrachloroethylene	14.04	14.71	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.32	8.73	1.068	ok	1.063	1.003-1.123
Toluene	12.90	10.45	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.12	10.45	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.73	0.721	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.73	0.593	ok	0.593	0.533-0.653
Vinyl Acetate	7.99	8.73	0.915	ok	0.914	0.854-0.974
m,p-Xylene	15.32	14.71	1.041	ok	1.042	0.982-1.102
o-Xylene	15.83	14.71	1.076	ok	1.076	1.016-1.136

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.73	ok	8.74	8.41-9.07	178629	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	869544	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	726598	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

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VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	Reporting this level
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.18	8.75	0.706	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.75	0.605	ok	0.605	0.545-0.665
Benzene	10.17	10.47	0.971	ok	0.972	0.912-1.032
Bromodichloromethane	11.11	10.47	1.061	ok	1.061	1.001-1.121
Bromoform	15.46	14.72	1.050	ok	1.050	0.990-1.110
Bromomethane	5.53	8.75	0.632	ok	0.632	0.572-0.692
Bromoethene	5.96	8.75	0.681	ok	0.682	0.622-0.742
n-Butane	5.34	8.75	0.610	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.72	1.217	ok	1.217	1.157-1.277
Carbon disulfide	7.19	8.75	0.822	ok	0.824	0.764-0.884
Chlorobenzene	14.77	14.72	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.75	0.542	ok	0.543	0.483-0.603
Chloroethane	5.67	8.75	0.648	ok	0.648	0.588-0.708
Chloroform	8.86	8.75	1.013	ok	1.012	0.952-1.072
Chloromethane	4.99	8.75	0.570	ok	0.571	0.511-0.631
3-Chloropropene	7.01	8.75	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	17.02	14.72	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.30	8.75	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.41	10.47	0.994	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.75	0.899	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.82	8.75	0.779	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.61	14.72	0.925	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.53	8.75	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.93	10.47	1.044	ok	1.044	0.984-1.104
1,4-Dioxane	11.19	10.47	1.069	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.75	0.553	ok	0.554	0.494-0.614
Dibromochloromethane	13.36	14.72	0.908	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.75	0.879	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.75	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.96	10.47	1.142	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.93	14.72	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.72	1.249	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.72	1.223	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.46	10.47	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.61	10.47	1.013	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.54	8.75	1.090	ok	1.090	1.030-1.150
Ethanol	5.82	8.75	0.665	ok	0.670	0.610-0.730
Ethylbenzene	15.14	14.72	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.79	8.75	1.005	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	Reporting this level
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.21	14.72	1.169	ok	1.169	1.109-1.229
Freon 113	7.12	8.75	0.814	ok	0.814	0.754-0.874
Freon 114	5.07	8.75	0.579	ok	0.580	0.520-0.640
Freon 123	6.06	8.75	0.693	ok	0.693	0.633-0.753
Freon 152A	4.71	8.75	0.538	ok	0.538	0.478-0.598
Heptane	11.38	10.47	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.72	1.414	ok	1.414	1.354-1.474
Hexane	8.75	8.75	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.18	14.72	0.895	ok	0.897	0.837-0.957
Isopropylbenzene	16.49	14.72	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.44	8.75	0.736	ok	0.739	0.679-0.799
Methylene chloride	6.91	8.75	0.790	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.24	8.75	0.942	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.01	10.47	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.93	8.75	0.906	ok	0.910	0.850-0.970
Methylmethacrylate	11.32	10.47	1.081	ok	1.082	1.022-1.142
Nonane	16.05	14.72	1.090	ok	1.090	1.030-1.150
Octane	13.86	14.72	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.75	0.751	ok	0.752	0.692-0.812
Propylene	4.77	8.75	0.545	ok	0.546	0.486-0.606
Styrene	15.73	14.72	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.75	8.75	1.114	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.85	14.72	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.65	10.47	1.208	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.72	1.380	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.75	14.72	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.29	14.72	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.15	10.47	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.94	8.75	0.793	ok	0.797	0.737-0.857
Tetrachloroethylene	14.05	14.72	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.26	8.75	1.058	ok	1.063	1.003-1.123
Toluene	12.92	10.47	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.14	10.47	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.75	0.719	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.75	0.592	ok	0.593	0.533-0.653
Vinyl Acetate	7.99	8.75	0.913	ok	0.914	0.854-0.974
m,p-Xylene	15.34	14.72	1.042	ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077	ok	1.076	1.016-1.136
TVHC As Equiv Pentane	6.58	8.75	0.752	ok	0.752	0.692-0.812

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	Reporting this level
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.38	10.47	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.74	8.41-9.07	182652	ok	178595	107157-250033
1,4-Difluorobenzene	10.47	ok	10.46	10.13-10.79	909677	ok	875912	525547-1226277
Chlorobenzene-D5	14.72	ok	14.71	14.38-15.04	827837	ok	750689	450413-1050965

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.18	8.74	0.707	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.74	0.605	ok	0.605	0.545-0.665
Benzene	10.16	10.45	0.972	ok	0.972	0.912-1.032
Bromodichloromethane	11.10	10.45	1.062	ok	1.061	1.001-1.121
Bromoform	15.44	14.71	1.050	ok	1.050	0.990-1.110
Bromomethane	5.53	8.74	0.633	ok	0.632	0.572-0.692
Bromoethene	5.96	8.74	0.682	ok	0.682	0.622-0.742
n-Butane	5.34	8.74	0.611	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.71	1.218	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.74	0.824	ok	0.824	0.764-0.884
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.75	8.74	0.543	ok	0.543	0.483-0.603
Chloroethane	5.66	8.74	0.648	ok	0.648	0.588-0.708
Chloroform	8.84	8.74	1.011	ok	1.012	0.952-1.072
Chloromethane	4.99	8.74	0.571	ok	0.571	0.511-0.631
3-Chloropropene	7.01	8.74	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.01	14.71	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.29	8.74	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.45	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.74	0.900	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.82	8.74	0.780	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.59	14.71	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.74	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.91	10.45	1.044	ok	1.044	0.984-1.104
1,4-Dioxane	11.19	10.45	1.071	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.74	0.554	ok	0.554	0.494-0.614
Dibromochloromethane	13.34	14.71	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.74	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.58	8.74	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.45	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.38	14.71	1.249	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.44	10.45	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.60	10.45	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.52	8.74	1.089	ok	1.090	1.030-1.150
Ethanol	5.82	8.74	0.666	ok	0.670	0.610-0.730
Ethylbenzene	15.13	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.77	8.74	1.003	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.20	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.74	0.814	ok	0.814	0.754-0.874
Freon 114	5.07	8.74	0.580	ok	0.580	0.520-0.640
Freon 123	6.05	8.74	0.692	ok	0.693	0.633-0.753
Freon 152A	4.71	8.74	0.539	ok	0.538	0.478-0.598
Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.71	1.415	ok	1.414	1.354-1.474
Hexane	8.74	8.74	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.18	14.71	0.896	ok	0.897	0.837-0.957
Isopropylbenzene	16.47	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.40	8.74	0.732	ok	0.739	0.679-0.799
Methylene chloride	6.91	8.74	0.791	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.23	8.74	0.942	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	11.99	10.45	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.93	8.74	0.907	ok	0.910	0.850-0.970
Methylmethacrylate	11.30	10.45	1.081	ok	1.082	1.022-1.142
Nonane	16.03	14.71	1.090	ok	1.090	1.030-1.150
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812
Propylene	4.77	8.74	0.546	ok	0.546	0.486-0.606
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.74	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.83	14.71	1.076	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.63	10.45	1.209	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.71	1.381	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.74	14.71	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.13	10.45	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.91	8.74	0.791	ok	0.797	0.737-0.857
Tetrachloroethylene	14.04	14.71	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.26	8.74	1.059	ok	1.063	1.003-1.123
Toluene	12.90	10.45	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.13	10.45	1.065	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.74	0.720	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.74	0.593	ok	0.593	0.533-0.653
Vinyl Acetate	7.97	8.74	0.912	ok	0.914	0.854-0.974
m,p-Xylene	15.32	14.71	1.041	ok	1.042	0.982-1.102
o-Xylene	15.83	14.71	1.076	ok	1.076	1.016-1.136
TVHC As Equiv Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	Reporting this level
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	186651	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	913664	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	778234	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	Reporting this level
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.26	8.74	0.716	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.74	0.605	ok	0.605	0.545-0.665
Benzene	10.16	10.45	0.972	ok	0.972	0.912-1.032
Bromodichloromethane	11.09	10.45	1.061	ok	1.061	1.001-1.121
Bromoform	15.44	14.71	1.050	ok	1.050	0.990-1.110
Bromomethane	5.52	8.74	0.632	ok	0.632	0.572-0.692
Bromoethene	5.96	8.74	0.682	ok	0.682	0.622-0.742
n-Butane	5.34	8.74	0.611	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.71	1.218	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.74	0.824	ok	0.824	0.764-0.884
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.75	8.74	0.543	ok	0.543	0.483-0.603
Chloroethane	5.66	8.74	0.648	ok	0.648	0.588-0.708
Chloroform	8.84	8.74	1.011	ok	1.012	0.952-1.072
Chloromethane	4.99	8.74	0.571	ok	0.571	0.511-0.631
3-Chloropropene	7.01	8.74	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.01	14.71	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.29	8.74	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.45	0.995	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.74	0.900	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.82	8.74	0.780	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.59	14.71	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.74	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.91	10.45	1.044	ok	1.044	0.984-1.104
1,4-Dioxane	11.27	10.45	1.078	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.74	0.554	ok	0.554	0.494-0.614
Dibromochloromethane	13.34	14.71	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.74	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.74	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.45	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.71	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.45	10.45	1.191	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.60	10.45	1.014	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.52	8.74	1.089	ok	1.090	1.030-1.150
Ethanol	5.91	8.74	0.676	ok	0.670	0.610-0.730
Ethylbenzene	15.13	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.83	8.74	1.010	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	Reporting this level
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.20	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.74	0.814	ok	0.814	0.754-0.874
Freon 114	5.06	8.74	0.579	ok	0.580	0.520-0.640
Freon 123	6.06	8.74	0.693	ok	0.693	0.633-0.753
Freon 152A	4.70	8.74	0.538	ok	0.538	0.478-0.598
Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.71	1.415	ok	1.414	1.354-1.474
Hexane	8.74	8.74	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.22	14.71	0.899	ok	0.897	0.837-0.957
Isopropylbenzene	16.47	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.51	8.74	0.745	ok	0.739	0.679-0.799
Methylene chloride	6.91	8.74	0.791	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.29	8.74	0.949	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.04	10.45	1.152	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.99	8.74	0.914	ok	0.910	0.850-0.970
Methylmethacrylate	11.32	10.45	1.083	ok	1.082	1.022-1.142
Nonane	16.03	14.71	1.090	ok	1.090	1.030-1.150
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.74	0.752	ok	0.752	0.692-0.812
Propylene	4.77	8.74	0.546	ok	0.546	0.486-0.606
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.74	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.84	14.71	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.63	10.45	1.209	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.71	1.381	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.74	14.71	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.13	10.45	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	7.02	8.74	0.803	ok	0.797	0.737-0.857
Tetrachloroethylene	14.04	14.71	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.35	8.74	1.070	ok	1.063	1.003-1.123
Toluene	12.90	10.45	1.234	ok	1.234	1.174-1.294
Trichloroethylene	11.12	10.45	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.74	0.720	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.74	0.593	ok	0.593	0.533-0.653
Vinyl Acetate	8.01	8.74	0.916	ok	0.914	0.854-0.974
m,p-Xylene	15.33	14.71	1.042	ok	1.042	0.982-1.102
o-Xylene	15.83	14.71	1.076	ok	1.076	1.016-1.136

Initial Calibration Retention Time/Internal Standard Area Summary

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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	Reporting this level
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	178657	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	879318	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	734079	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	Reporting this level
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	20.44	14.71	1.390	ok	1.390	1.330-1.450

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	166449	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	805745	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	662968	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	Reporting this level
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.17	8.75	0.705	ok	0.710	0.650-0.770
1,3-Butadiene	5.29	8.75	0.605	ok	0.605	0.545-0.665
Benzene	10.18	10.48	0.971	ok	0.972	0.912-1.032
Bromodichloromethane	11.12	10.48	1.061	ok	1.061	1.001-1.121
Bromoform	15.46	14.72	1.050	ok	1.050	0.990-1.110
Bromomethane	5.52	8.75	0.631	ok	0.632	0.572-0.692
Bromoethene	5.96	8.75	0.681	ok	0.682	0.622-0.742
n-Butane	5.34	8.75	0.610	ok	0.611	0.551-0.671
Benzyl Chloride	17.91	14.72	1.217	ok	1.217	1.157-1.277
Carbon disulfide	7.20	8.75	0.823	ok	0.824	0.764-0.884
Chlorobenzene	14.77	14.72	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.75	0.542	ok	0.543	0.483-0.603
Chloroethane	5.66	8.75	0.647	ok	0.648	0.588-0.708
Chloroform	8.87	8.75	1.014	ok	1.012	0.952-1.072
Chloromethane	4.98	8.75	0.569	ok	0.571	0.511-0.631
3-Chloropropene	7.01	8.75	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	17.02	14.72	1.156	ok	1.156	1.096-1.216
Carbon tetrachloride	10.30	8.75	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.41	10.48	0.993	ok	0.995	0.935-1.055
1,1-Dichloroethane	7.87	8.75	0.899	ok	0.900	0.840-0.960
1,1-Dichloroethylene	6.82	8.75	0.779	ok	0.780	0.720-0.840
1,2-Dibromoethane	13.62	14.72	0.925	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.53	8.75	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.93	10.48	1.043	ok	1.044	0.984-1.104
1,4-Dioxane	11.19	10.48	1.068	ok	1.073	1.013-1.133
Dichlorodifluoromethane	4.84	8.75	0.553	ok	0.554	0.494-0.614
Dibromochloromethane	13.37	14.72	0.908	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.75	0.879	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.60	8.75	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.96	10.48	1.141	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.94	14.72	1.219	ok	1.218	1.158-1.278
o-Dichlorobenzene	18.39	14.72	1.249	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.01	14.72	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.47	10.48	1.190	ok	1.190	1.130-1.250
2,3-Dimethylpentane	10.61	10.48	1.012	ok	1.014	0.954-1.074
2,4-Dimethylpentane	9.54	8.75	1.090	ok	1.090	1.030-1.150
Ethanol	5.82	8.75	0.665	ok	0.670	0.610-0.730
Ethylbenzene	15.15	14.72	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.75	1.006	ok	1.007	0.947-1.067

Initial Calibration Retention Time/Internal Standard Area Summary

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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	Reporting this level
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.21	14.72	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.75	0.813	ok	0.814	0.754-0.874
Freon 114	5.06	8.75	0.578	ok	0.580	0.520-0.640
Freon 123	6.06	8.75	0.693	ok	0.693	0.633-0.753
Freon 152A	4.71	8.75	0.538	ok	0.538	0.478-0.598
Heptane	11.38	10.48	1.086	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.81	14.72	1.414	ok	1.414	1.354-1.474
Hexane	8.74	8.75	0.999	ok	1.000	0.940-1.060
2-Hexanone	13.19	14.72	0.896	ok	0.897	0.837-0.957
Isopropylbenzene	16.49	14.72	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.44	8.75	0.736	ok	0.739	0.679-0.799
Methylene chloride	6.91	8.75	0.790	ok	0.790	0.730-0.850
Methyl ethyl ketone	8.25	8.75	0.943	ok	0.945	0.885-1.005
Methyl Isobutyl Ketone	12.02	10.48	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.93	8.75	0.906	ok	0.910	0.850-0.970
Methylmethacrylate	11.32	10.48	1.080	ok	1.082	1.022-1.142
Nonane	16.05	14.72	1.090	ok	1.090	1.030-1.150
Octane	13.86	14.72	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.75	0.751	ok	0.752	0.692-0.812
Propylene	4.77	8.75	0.545	ok	0.546	0.486-0.606
Styrene	15.74	14.72	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.75	8.75	1.114	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.86	14.72	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.66	10.48	1.208	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.31	14.72	1.380	ok	1.380	1.320-1.440
1,2,4-Trimethylbenzene	17.75	14.72	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.30	14.72	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.16	10.48	1.065	ok	1.065	1.005-1.125
Tertiary Butyl Alcohol	6.95	8.75	0.794	ok	0.797	0.737-0.857
Tetrachloroethylene	14.06	14.72	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.26	8.75	1.058	ok	1.063	1.003-1.123
Toluene	12.92	10.48	1.233	ok	1.234	1.174-1.294
Trichloroethylene	11.15	10.48	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.29	8.75	0.719	ok	0.720	0.660-0.780
Vinyl chloride	5.18	8.75	0.592	ok	0.593	0.533-0.653
Vinyl Acetate	7.99	8.75	0.913	ok	0.914	0.854-0.974
m,p-Xylene	15.35	14.72	1.043	ok	1.042	0.982-1.102
o-Xylene	15.85	14.72	1.077	ok	1.076	1.016-1.136
TVHC As Equiv Pentane	6.57	8.75	0.751	ok	0.752	0.692-0.812

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	Reporting this level
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.38	10.48	1.086	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.74	8.41-9.07	176960	ok	178595	107157-250033
1,4-Difluorobenzene	10.48	ok	10.46	10.13-10.79	859301	ok	875912	525547-1226277
Chlorobenzene-D5	14.72	ok	14.71	14.38-15.04	788240	ok	750689	450413-1050965

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW816-IC816	W19112.D	12/08/08 21:32	YMH	0.2	GCMSW	TO-15	
VW816-ICC816	W19113.D	12/08/08 22:12	YMH	10	GCMSW	TO-15	
VW816-IC816	W19114.D	12/08/08 22:52	YMH	1.0	GCMSW	TO-15	
VW816-IC816	W19115.D	12/08/08 23:33	YMH	20	GCMSW	TO-15	
VW816-IC816	W19116.D	12/09/08 00:13	YMH	5.0	GCMSW	TO-15	
VW816-IC816	W19117.D	12/09/08 00:53	YMH	0.5	GCMSW	TO-15	
VW816-IC816	W19118.D	12/09/08 01:33	YMH	10	GCMSW	TO-15	
VW816-IC816	W19119.D	12/09/08 02:13	YMH	40	GCMSW	TO-15	
VW816-IC816	W19120.D	12/09/08 02:53	YMH	0.2	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	20.44	14.71	1.390	ok	1.390	1.330-1.450

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.74	ok	8.74	8.41-9.07	191184	ok	178595	107157-250033
1,4-Difluorobenzene	10.45	ok	10.46	10.13-10.79	921764	ok	875912	525547-1226277
Chlorobenzene-D5	14.71	ok	14.71	14.38-15.04	758434	ok	750689	450413-1050965

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	Reporting this level
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.15	8.71	0.706	ok	0.709	0.649-0.769
1,3-Butadiene	5.28	8.71	0.606	ok	0.607	0.547-0.667
Benzene	10.13	10.43	0.971	ok	0.971	0.911-1.031
Bromodichloromethane	11.08	10.43	1.062	ok	1.062	1.002-1.122
Bromoform	15.41	14.68	1.050	ok	1.050	0.990-1.110
Bromomethane	5.52	8.71	0.634	ok	0.634	0.574-0.694
Bromoethene	5.94	8.71	0.682	ok	0.683	0.623-0.743
n-Butane	5.32	8.71	0.611	ok	0.612	0.552-0.672
Benzyl Chloride	17.89	14.68	1.219	ok	1.218	1.158-1.278
Carbon disulfide	7.17	8.71	0.823	ok	0.823	0.763-0.883
Chlorobenzene	14.73	14.68	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.71	0.544	ok	0.545	0.485-0.605
Chloroethane	5.65	8.71	0.649	ok	0.649	0.589-0.709
Chloroform	8.82	8.71	1.013	ok	1.013	0.953-1.073
Chloromethane	4.98	8.71	0.572	ok	0.573	0.513-0.633
3-Chloropropene	6.98	8.71	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	16.99	14.68	1.157	ok	1.157	1.097-1.217
Carbon tetrachloride	10.26	8.71	1.178	ok	1.177	1.117-1.237
Cyclohexane	10.37	10.43	0.994	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.84	8.71	0.900	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.80	8.71	0.781	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.56	14.68	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.48	8.71	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.89	10.43	1.044	ok	1.043	0.983-1.103
1,4-Dioxane	11.15	10.43	1.069	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.83	8.71	0.555	ok	0.556	0.496-0.616
Dibromochloromethane	13.32	14.68	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.66	8.71	0.879	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.56	8.71	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.92	10.43	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.90	14.68	1.219	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.36	14.68	1.251	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.98	14.68	1.225	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.42	10.43	1.191	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.57	10.43	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.50	8.71	1.091	ok	1.090	1.030-1.150
Ethanol	5.83	8.71	0.669	ok	0.677	0.617-0.737
Ethylbenzene	15.11	14.68	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.74	8.71	1.003	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	Reporting this level
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.17	14.68	1.170	ok	1.169	1.109-1.229
Freon 113	7.09	8.71	0.814	ok	0.814	0.754-0.874
Freon 114	5.06	8.71	0.581	ok	0.581	0.521-0.641
Freon 123	6.04	8.71	0.693	ok	0.694	0.634-0.754
Freon 152A	4.70	8.71	0.540	ok	0.541	0.481-0.601
Heptane	11.34	10.43	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.68	1.416	ok	1.415	1.355-1.475
Hexane	8.72	8.71	1.001	ok	1.000	0.940-1.060
2-Hexanone	13.14	14.68	0.895	ok	0.897	0.837-0.957
Isopropylbenzene	16.45	14.68	1.121	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.41	8.71	0.736	ok	0.745	0.685-0.805
Methylene chloride	6.88	8.71	0.790	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.20	8.71	0.941	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	11.97	10.43	1.148	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.89	8.71	0.906	ok	0.908	0.848-0.968
Methylmethacrylate	11.28	10.43	1.081	ok	1.082	1.022-1.142
Nonane	16.01	14.68	1.091	ok	1.091	1.031-1.151
Octane	13.83	14.68	0.942	ok	0.942	0.882-1.002
Pentane	6.55	8.71	0.752	ok	0.752	0.692-0.812
Propylene	4.77	8.71	0.548	ok	0.548	0.488-0.608
Styrene	15.69	14.68	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.70	8.71	1.114	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.81	14.68	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.61	10.43	1.209	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.68	1.382	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.72	14.68	1.207	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.26	14.68	1.176	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.11	10.43	1.065	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	6.90	8.71	0.792	ok	0.802	0.742-0.862
Tetrachloroethylene	14.01	14.68	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.22	8.71	1.059	ok	1.062	1.002-1.122
Toluene	12.87	10.43	1.234	ok	1.233	1.173-1.293
Trichloroethylene	11.10	10.43	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.27	8.71	0.720	ok	0.721	0.661-0.781
Vinyl chloride	5.17	8.71	0.594	ok	0.594	0.534-0.654
Vinyl Acetate	7.94	8.71	0.912	ok	0.913	0.853-0.973
m,p-Xylene	15.30	14.68	1.042	ok	1.042	0.982-1.102
o-Xylene	15.81	14.68	1.077	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.55	8.71	0.752	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	Reporting this level
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.34	10.43	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.71	ok	8.73	8.40-9.06	144054	ok	119492	71695-167289
1,4-Difluorobenzene	10.43	ok	10.45	10.12-10.78	745736	ok	602171	361303-843039
Chlorobenzene-D5	14.68	ok	14.70	14.37-15.03	649052	ok	504656	302794-706518

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.16	8.71	0.707	ok	0.709	0.649-0.769
1,3-Butadiene	5.28	8.71	0.606	ok	0.607	0.547-0.667
Benzene	10.12	10.42	0.971	ok	0.971	0.911-1.031
Bromodichloromethane	11.07	10.42	1.062	ok	1.062	1.002-1.122
Bromoform	15.40	14.68	1.049	ok	1.050	0.990-1.110
Bromomethane	5.52	8.71	0.634	ok	0.634	0.574-0.694
Bromoethene	5.94	8.71	0.682	ok	0.683	0.623-0.743
n-Butane	5.33	8.71	0.612	ok	0.612	0.552-0.672
Benzyl Chloride	17.88	14.68	1.218	ok	1.218	1.158-1.278
Carbon disulfide	7.17	8.71	0.823	ok	0.823	0.763-0.883
Chlorobenzene	14.72	14.68	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.71	0.544	ok	0.545	0.485-0.605
Chloroethane	5.66	8.71	0.650	ok	0.649	0.589-0.709
Chloroform	8.81	8.71	1.011	ok	1.013	0.953-1.073
Chloromethane	4.98	8.71	0.572	ok	0.573	0.513-0.633
3-Chloropropene	6.98	8.71	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	16.98	14.68	1.157	ok	1.157	1.097-1.217
Carbon tetrachloride	10.26	8.71	1.178	ok	1.177	1.117-1.237
Cyclohexane	10.37	10.42	0.995	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.84	8.71	0.900	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.80	8.71	0.781	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.56	14.68	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.48	8.71	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.87	10.42	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.21	10.42	1.076	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.83	8.71	0.555	ok	0.556	0.496-0.616
Dibromochloromethane	13.31	14.68	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.67	8.71	0.881	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.56	8.71	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.91	10.42	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.90	14.68	1.219	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.36	14.68	1.251	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.97	14.68	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.42	10.42	1.192	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.56	10.42	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.50	8.71	1.091	ok	1.090	1.030-1.150
Ethanol	5.85	8.71	0.672	ok	0.677	0.617-0.737
Ethylbenzene	15.11	14.68	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.74	8.71	1.003	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.17	14.68	1.170	ok	1.169	1.109-1.229
Freon 113	7.09	8.71	0.814	ok	0.814	0.754-0.874
Freon 114	5.06	8.71	0.581	ok	0.581	0.521-0.641
Freon 123	6.04	8.71	0.693	ok	0.694	0.634-0.754
Freon 152A	4.70	8.71	0.540	ok	0.541	0.481-0.601
Heptane	11.33	10.42	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.68	1.416	ok	1.415	1.355-1.475
Hexane	8.71	8.71	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.17	14.68	0.897	ok	0.897	0.837-0.957
Isopropylbenzene	16.45	14.68	1.121	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.45	8.71	0.741	ok	0.745	0.685-0.805
Methylene chloride	6.89	8.71	0.791	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.20	8.71	0.941	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	11.99	10.42	1.151	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.91	8.71	0.908	ok	0.908	0.848-0.968
Methylmethacrylate	11.28	10.42	1.083	ok	1.082	1.022-1.142
Nonane	16.01	14.68	1.091	ok	1.091	1.031-1.151
Octane	13.82	14.68	0.941	ok	0.942	0.882-1.002
Pentane	6.55	8.71	0.752	ok	0.752	0.692-0.812
Propylene	4.77	8.71	0.548	ok	0.548	0.488-0.608
Styrene	15.68	14.68	1.068	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.70	8.71	1.114	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.81	14.68	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.61	10.42	1.210	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.68	1.382	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.71	14.68	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.26	14.68	1.176	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.10	10.42	1.065	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	6.95	8.71	0.798	ok	0.802	0.742-0.862
Tetrachloroethylene	14.01	14.68	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.23	8.71	1.060	ok	1.062	1.002-1.122
Toluene	12.87	10.42	1.235	ok	1.233	1.173-1.293
Trichloroethylene	11.09	10.42	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.28	8.71	0.721	ok	0.721	0.661-0.781
Vinyl chloride	5.17	8.71	0.594	ok	0.594	0.534-0.654
Vinyl Acetate	7.94	8.71	0.912	ok	0.913	0.853-0.973
m,p-Xylene	15.29	14.68	1.042	ok	1.042	0.982-1.102
o-Xylene	15.80	14.68	1.076	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.55	8.71	0.752	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.33	10.42	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.71	ok	8.73	8.40-9.06	130312	ok	119492	71695-167289
1,4-Difluorobenzene	10.42	ok	10.45	10.12-10.78	691959	ok	602171	361303-843039
Chlorobenzene-D5	14.68	ok	14.70	14.37-15.03	568871	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	Reporting this level
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.16	8.70	0.708	ok	0.709	0.649-0.769
1,3-Butadiene	5.27	8.70	0.606	ok	0.607	0.547-0.667
Benzene	10.12	10.42	0.971	ok	0.971	0.911-1.031
Bromodichloromethane	11.05	10.42	1.060	ok	1.062	1.002-1.122
Bromoform	15.40	14.67	1.050	ok	1.050	0.990-1.110
Bromomethane	5.51	8.70	0.633	ok	0.634	0.574-0.694
Bromoethene	5.94	8.70	0.683	ok	0.683	0.623-0.743
n-Butane	5.32	8.70	0.611	ok	0.612	0.552-0.672
Benzyl Chloride	17.88	14.67	1.219	ok	1.218	1.158-1.278
Carbon disulfide	7.17	8.70	0.824	ok	0.823	0.763-0.883
Chlorobenzene	14.72	14.67	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.74	8.70	0.545	ok	0.545	0.485-0.605
Chloroethane	5.64	8.70	0.648	ok	0.649	0.589-0.709
Chloroform	8.81	8.70	1.013	ok	1.013	0.953-1.073
Chloromethane	4.98	8.70	0.572	ok	0.573	0.513-0.633
3-Chloropropene	6.98	8.70	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	16.98	14.67	1.157	ok	1.157	1.097-1.217
Carbon tetrachloride	10.25	8.70	1.178	ok	1.177	1.117-1.237
Cyclohexane	10.37	10.42	0.995	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.84	8.70	0.901	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.80	8.70	0.782	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.56	14.67	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.47	8.70	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.87	10.42	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.25	10.42	1.080	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.83	8.70	0.555	ok	0.556	0.496-0.616
Dibromochloromethane	13.30	14.67	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.66	8.70	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.55	8.70	0.983	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.90	10.42	1.142	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.90	14.67	1.220	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.36	14.67	1.252	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.97	14.67	1.225	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.41	10.42	1.191	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.56	10.42	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.49	8.70	1.091	ok	1.090	1.030-1.150
Ethanol	5.84	8.70	0.671	ok	0.677	0.617-0.737
Ethylbenzene	15.11	14.67	1.030	ok	1.029	0.969-1.089
Ethyl Acetate	8.75	8.70	1.006	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	Reporting this level
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.17	14.67	1.170	ok	1.169	1.109-1.229
Freon 113	7.08	8.70	0.814	ok	0.814	0.754-0.874
Freon 114	5.05	8.70	0.580	ok	0.581	0.521-0.641
Freon 123	6.03	8.70	0.693	ok	0.694	0.634-0.754
Freon 152A	4.69	8.70	0.539	ok	0.541	0.481-0.601
Heptane	11.33	10.42	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.67	1.417	ok	1.415	1.355-1.475
Hexane	8.71	8.70	1.001	ok	1.000	0.940-1.060
2-Hexanone	13.18	14.67	0.898	ok	0.897	0.837-0.957
Isopropylbenzene	16.45	14.67	1.121	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.46	8.70	0.743	ok	0.745	0.685-0.805
Methylene chloride	6.89	8.70	0.792	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.21	8.70	0.944	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	12.00	10.42	1.152	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.90	8.70	0.908	ok	0.908	0.848-0.968
Methylmethacrylate	11.28	10.42	1.083	ok	1.082	1.022-1.142
Nonane	16.01	14.67	1.091	ok	1.091	1.031-1.151
Octane	13.82	14.67	0.942	ok	0.942	0.882-1.002
Pentane	6.55	8.70	0.753	ok	0.752	0.692-0.812
Propylene	4.76	8.70	0.547	ok	0.548	0.488-0.608
Styrene	15.69	14.67	1.070	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.70	8.70	1.115	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.80	14.67	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.59	10.42	1.208	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.67	1.383	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.71	14.67	1.207	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.26	14.67	1.177	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.09	10.42	1.064	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	6.97	8.70	0.801	ok	0.802	0.742-0.862
Tetrachloroethylene	14.01	14.67	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.31	8.70	1.070	ok	1.062	1.002-1.122
Toluene	12.87	10.42	1.235	ok	1.233	1.173-1.293
Trichloroethylene	11.09	10.42	1.064	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.27	8.70	0.721	ok	0.721	0.661-0.781
Vinyl chloride	5.16	8.70	0.593	ok	0.594	0.534-0.654
Vinyl Acetate	7.95	8.70	0.914	ok	0.913	0.853-0.973
m,p-Xylene	15.29	14.67	1.042	ok	1.042	0.982-1.102
o-Xylene	15.80	14.67	1.077	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.27	8.70	0.721	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	Reporting this level
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.33	10.42	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.70	ok	8.73	8.40-9.06	112090	ok	119492	71695-167289
1,4-Difluorobenzene	10.42	ok	10.45	10.12-10.78	581524	ok	602171	361303-843039
Chlorobenzene-D5	14.67	ok	14.70	14.37-15.03	463015	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	Reporting this level
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.19	8.75	0.707	ok	0.709	0.649-0.769
1,3-Butadiene	5.31	8.75	0.607	ok	0.607	0.547-0.667
Benzene	10.16	10.47	0.970	ok	0.971	0.911-1.031
Bromodichloromethane	11.12	10.47	1.062	ok	1.062	1.002-1.122
Bromoform	15.43	14.70	1.050	ok	1.050	0.990-1.110
Bromomethane	5.55	8.75	0.634	ok	0.634	0.574-0.694
Bromoethene	5.97	8.75	0.682	ok	0.683	0.623-0.743
n-Butane	5.35	8.75	0.611	ok	0.612	0.552-0.672
Benzyl Chloride	17.89	14.70	1.217	ok	1.218	1.158-1.278
Carbon disulfide	7.20	8.75	0.823	ok	0.823	0.763-0.883
Chlorobenzene	14.75	14.70	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.77	8.75	0.545	ok	0.545	0.485-0.605
Chloroethane	5.68	8.75	0.649	ok	0.649	0.589-0.709
Chloroform	8.86	8.75	1.013	ok	1.013	0.953-1.073
Chloromethane	5.01	8.75	0.573	ok	0.573	0.513-0.633
3-Chloropropene	7.02	8.75	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.00	14.70	1.156	ok	1.157	1.097-1.217
Carbon tetrachloride	10.29	8.75	1.176	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.47	0.993	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.87	8.75	0.899	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.82	8.75	0.779	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.60	14.70	0.925	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.52	8.75	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.92	10.47	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.20	10.47	1.070	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.86	8.75	0.555	ok	0.556	0.496-0.616
Dibromochloromethane	13.35	14.70	0.908	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.75	0.879	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.75	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.95	10.47	1.141	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.91	14.70	1.218	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.37	14.70	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.99	14.70	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.46	10.47	1.190	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.59	10.47	1.011	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.53	8.75	1.089	ok	1.090	1.030-1.150
Ethanol	5.95	8.75	0.680	ok	0.677	0.617-0.737
Ethylbenzene	15.13	14.70	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.75	1.006	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	Reporting this level
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.18	14.70	1.169	ok	1.169	1.109-1.229
Freon 113	7.12	8.75	0.814	ok	0.814	0.754-0.874
Freon 114	5.09	8.75	0.582	ok	0.581	0.521-0.641
Freon 123	6.07	8.75	0.694	ok	0.694	0.634-0.754
Freon 152A	4.74	8.75	0.542	ok	0.541	0.481-0.601
Heptane	11.37	10.47	1.086	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.70	1.414	ok	1.415	1.355-1.475
Hexane	8.74	8.75	0.999	ok	1.000	0.940-1.060
2-Hexanone	13.17	14.70	0.896	ok	0.897	0.837-0.957
Isopropylbenzene	16.46	14.70	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.53	8.75	0.746	ok	0.745	0.685-0.805
Methylene chloride	6.91	8.75	0.790	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.27	8.75	0.945	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	12.01	10.47	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.94	8.75	0.907	ok	0.908	0.848-0.968
Methylmethacrylate	11.32	10.47	1.081	ok	1.082	1.022-1.142
Nonane	16.03	14.70	1.090	ok	1.091	1.031-1.151
Octane	13.84	14.70	0.941	ok	0.942	0.882-1.002
Pentane	6.58	8.75	0.752	ok	0.752	0.692-0.812
Propylene	4.80	8.75	0.549	ok	0.548	0.488-0.608
Styrene	15.71	14.70	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.74	8.75	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.83	14.70	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.64	10.47	1.207	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.70	1.380	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.73	14.70	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.27	14.70	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.14	10.47	1.064	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	7.02	8.75	0.802	ok	0.802	0.742-0.862
Tetrachloroethylene	14.04	14.70	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.26	8.75	1.058	ok	1.062	1.002-1.122
Toluene	12.90	10.47	1.232	ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.47	1.063	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.75	0.720	ok	0.721	0.661-0.781
Vinyl chloride	5.20	8.75	0.594	ok	0.594	0.534-0.654
Vinyl Acetate	7.99	8.75	0.913	ok	0.913	0.853-0.973
m,p-Xylene	15.32	14.70	1.042	ok	1.042	0.982-1.102
o-Xylene	15.83	14.70	1.077	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.58	8.75	0.752	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	Reporting this level
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.37	10.47	1.086	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.73	8.40-9.06	114083	ok	119492	71695-167289
1,4-Difluorobenzene	10.47	ok	10.45	10.12-10.78	552454	ok	602171	361303-843039
Chlorobenzene-D5	14.70	ok	14.70	14.37-15.03	492162	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.22	8.75	0.711	ok	0.709	0.649-0.769
1,3-Butadiene	5.31	8.75	0.607	ok	0.607	0.547-0.667
Benzene	10.16	10.47	0.970	ok	0.971	0.911-1.031
Bromodichloromethane	11.11	10.47	1.061	ok	1.062	1.002-1.122
Bromoform	15.43	14.70	1.050	ok	1.050	0.990-1.110
Bromomethane	5.55	8.75	0.634	ok	0.634	0.574-0.694
Bromoethene	5.98	8.75	0.683	ok	0.683	0.623-0.743
n-Butane	5.36	8.75	0.613	ok	0.612	0.552-0.672
Benzyl Chloride	17.89	14.70	1.217	ok	1.218	1.158-1.278
Carbon disulfide	7.21	8.75	0.824	ok	0.823	0.763-0.883
Chlorobenzene	14.75	14.70	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.78	8.75	0.546	ok	0.545	0.485-0.605
Chloroethane	5.69	8.75	0.650	ok	0.649	0.589-0.709
Chloroform	8.86	8.75	1.013	ok	1.013	0.953-1.073
Chloromethane	5.02	8.75	0.574	ok	0.573	0.513-0.633
3-Chloropropene	7.02	8.75	0.802	ok	0.802	0.742-0.862
2-Chlorotoluene	17.00	14.70	1.156	ok	1.157	1.097-1.217
Carbon tetrachloride	10.30	8.75	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.47	0.993	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.88	8.75	0.901	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.83	8.75	0.781	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.59	14.70	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.52	8.75	1.088	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.92	10.47	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.22	10.47	1.072	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.88	8.75	0.558	ok	0.556	0.496-0.616
Dibromochloromethane	13.34	14.70	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.70	8.75	0.880	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.75	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.95	10.47	1.141	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.91	14.70	1.218	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.37	14.70	1.250	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.98	14.70	1.223	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.45	10.47	1.189	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.60	10.47	1.012	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.53	8.75	1.089	ok	1.090	1.030-1.150
Ethanol	5.94	8.75	0.679	ok	0.677	0.617-0.737
Ethylbenzene	15.12	14.70	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.80	8.75	1.006	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.18	14.70	1.169	ok	1.169	1.109-1.229
Freon 113	7.13	8.75	0.815	ok	0.814	0.754-0.874
Freon 114	5.09	8.75	0.582	ok	0.581	0.521-0.641
Freon 123	6.08	8.75	0.695	ok	0.694	0.634-0.754
Freon 152A	4.74	8.75	0.542	ok	0.541	0.481-0.601
Heptane	11.37	10.47	1.086	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.70	1.414	ok	1.415	1.355-1.475
Hexane	8.75	8.75	1.000	ok	1.000	0.940-1.060
2-Hexanone	13.19	14.70	0.897	ok	0.897	0.837-0.957
Isopropylbenzene	16.46	14.70	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.52	8.75	0.745	ok	0.745	0.685-0.805
Methylene chloride	6.92	8.75	0.791	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.26	8.75	0.944	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	12.01	10.47	1.147	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.95	8.75	0.909	ok	0.908	0.848-0.968
Methylmethacrylate	11.33	10.47	1.082	ok	1.082	1.022-1.142
Nonane	16.03	14.70	1.090	ok	1.091	1.031-1.151
Octane	13.85	14.70	0.942	ok	0.942	0.882-1.002
Pentane	6.59	8.75	0.753	ok	0.752	0.692-0.812
Propylene	4.81	8.75	0.550	ok	0.548	0.488-0.608
Styrene	15.71	14.70	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.74	8.75	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.82	14.70	1.076	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.64	10.47	1.207	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.70	1.380	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.73	14.70	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.27	14.70	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.14	10.47	1.064	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	7.00	8.75	0.800	ok	0.802	0.742-0.862
Tetrachloroethylene	14.04	14.70	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	12.90	10.47	1.232	ok	1.233	1.173-1.293
Trichloroethylene	11.13	10.47	1.063	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.31	8.75	0.721	ok	0.721	0.661-0.781
Vinyl chloride	5.20	8.75	0.594	ok	0.594	0.534-0.654
Vinyl Acetate	7.99	8.75	0.913	ok	0.913	0.853-0.973
m,p-Xylene	15.31	14.70	1.041	ok	1.042	0.982-1.102
o-Xylene	15.82	14.70	1.076	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.59	8.75	0.753	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	Reporting this level
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.37	10.47	1.086	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.73	8.40-9.06	121611	ok	119492	71695-167289
1,4-Difluorobenzene	10.47	ok	10.45	10.12-10.78	615122	ok	602171	361303-843039
Chlorobenzene-D5	14.70	ok	14.70	14.37-15.03	520706	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	Reporting this level
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.22	8.73	0.712	ok	0.709	0.649-0.769
1,3-Butadiene	5.31	8.73	0.608	ok	0.607	0.547-0.667
Benzene	10.15	10.45	0.971	ok	0.971	0.911-1.031
Bromodichloromethane	11.10	10.45	1.062	ok	1.062	1.002-1.122
Bromoform	15.42	14.69	1.050	ok	1.050	0.990-1.110
Bromomethane	5.55	8.73	0.636	ok	0.634	0.574-0.694
Bromoethene	5.98	8.73	0.685	ok	0.683	0.623-0.743
n-Butane	5.36	8.73	0.614	ok	0.612	0.552-0.672
Benzyl Chloride	17.89	14.69	1.218	ok	1.218	1.158-1.278
Carbon disulfide	7.20	8.73	0.825	ok	0.823	0.763-0.883
Chlorobenzene	14.73	14.69	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.78	8.73	0.548	ok	0.545	0.485-0.605
Chloroethane	5.68	8.73	0.651	ok	0.649	0.589-0.709
Chloroform	8.84	8.73	1.013	ok	1.013	0.953-1.073
Chloromethane	5.01	8.73	0.574	ok	0.573	0.513-0.633
3-Chloropropene	7.02	8.73	0.804	ok	0.802	0.742-0.862
2-Chlorotoluene	17.00	14.69	1.157	ok	1.157	1.097-1.217
Carbon tetrachloride	10.28	8.73	1.178	ok	1.177	1.117-1.237
Cyclohexane	10.39	10.45	0.994	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.88	8.73	0.903	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.83	8.73	0.782	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.58	14.69	0.924	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.51	8.73	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.90	10.45	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.31	10.45	1.082	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.86	8.73	0.557	ok	0.556	0.496-0.616
Dibromochloromethane	13.33	14.69	0.907	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.70	8.73	0.882	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.73	0.984	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.94	10.45	1.143	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.90	14.69	1.219	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.37	14.69	1.251	ok	1.250	1.190-1.310
p-Dichlorobenzene	17.98	14.69	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.45	10.45	1.191	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.59	10.45	1.013	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.52	8.73	1.090	ok	1.090	1.030-1.150
Ethanol	5.99	8.73	0.686	ok	0.677	0.617-0.737
Ethylbenzene	15.12	14.69	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.78	8.73	1.006	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	Reporting this level
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.18	14.69	1.170	ok	1.169	1.109-1.229
Freon 113	7.12	8.73	0.816	ok	0.814	0.754-0.874
Freon 114	5.09	8.73	0.583	ok	0.581	0.521-0.641
Freon 123	6.07	8.73	0.695	ok	0.694	0.634-0.754
Freon 152A	4.74	8.73	0.543	ok	0.541	0.481-0.601
Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.69	1.415	ok	1.415	1.355-1.475
Hexane	8.74	8.73	1.001	ok	1.000	0.940-1.060
2-Hexanone	13.22	14.69	0.900	ok	0.897	0.837-0.957
Isopropylbenzene	16.46	14.69	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.63	8.73	0.759	ok	0.745	0.685-0.805
Methylene chloride	6.92	8.73	0.793	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.25	8.73	0.945	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	12.05	10.45	1.153	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.95	8.73	0.911	ok	0.908	0.848-0.968
Methylmethacrylate	11.34	10.45	1.085	ok	1.082	1.022-1.142
Nonane	16.02	14.69	1.091	ok	1.091	1.031-1.151
Octane	13.84	14.69	0.942	ok	0.942	0.882-1.002
Pentane	6.58	8.73	0.754	ok	0.752	0.692-0.812
Propylene	4.80	8.73	0.550	ok	0.548	0.488-0.608
Styrene	15.70	14.69	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.73	8.73	1.115	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.82	14.69	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.62	10.45	1.208	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.69	1.381	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.72	14.69	1.206	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.26	14.69	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.12	10.45	1.064	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	7.13	8.73	0.817	ok	0.802	0.742-0.862
Tetrachloroethylene	14.03	14.69	0.955	ok	0.955	0.895-1.015
Tetrahydrofuran	9.31	8.73	1.066	ok	1.062	1.002-1.122
Toluene	12.89	10.45	1.233	ok	1.233	1.173-1.293
Trichloroethylene	11.11	10.45	1.063	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.31	8.73	0.723	ok	0.721	0.661-0.781
Vinyl chloride	5.20	8.73	0.596	ok	0.594	0.534-0.654
Vinyl Acetate	7.98	8.73	0.914	ok	0.913	0.853-0.973
m,p-Xylene	15.31	14.69	1.042	ok	1.042	0.982-1.102
o-Xylene	15.82	14.69	1.077	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.58	8.73	0.754	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	Reporting this level
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.36	10.45	1.087	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.73	ok	8.73	8.40-9.06	113297	ok	119492	71695-167289
1,4-Difluorobenzene	10.45	ok	10.45	10.12-10.78	587287	ok	602171	361303-843039
Chlorobenzene-D5	14.69	ok	14.70	14.37-15.03	473350	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	Reporting this level
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	20.42	14.69	1.390	ok	1.387	1.327-1.447

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.72	ok	8.73	8.40-9.06	100294	ok	119492	71695-167289
1,4-Difluorobenzene	10.44	ok	10.45	10.12-10.78	516425	ok	602171	361303-843039
Chlorobenzene-D5	14.69	ok	14.70	14.37-15.03	410296	ok	504656	302794-706518

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Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	Reporting this level
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone	6.19	8.75	0.707	ok	0.709	0.649-0.769
1,3-Butadiene	5.30	8.75	0.606	ok	0.607	0.547-0.667
Benzene	10.17	10.48	0.970	ok	0.971	0.911-1.031
Bromodichloromethane	11.13	10.48	1.062	ok	1.062	1.002-1.122
Bromoform	15.45	14.71	1.050	ok	1.050	0.990-1.110
Bromomethane	5.53	8.75	0.632	ok	0.634	0.574-0.694
Bromoethene	5.96	8.75	0.681	ok	0.683	0.623-0.743
n-Butane	5.35	8.75	0.611	ok	0.612	0.552-0.672
Benzyl Chloride	17.90	14.71	1.217	ok	1.218	1.158-1.278
Carbon disulfide	7.19	8.75	0.822	ok	0.823	0.763-0.883
Chlorobenzene	14.75	14.71	1.003	ok	1.003	0.943-1.063
Chlorodifluoromethane	4.76	8.75	0.544	ok	0.545	0.485-0.605
Chloroethane	5.67	8.75	0.648	ok	0.649	0.589-0.709
Chloroform	8.87	8.75	1.014	ok	1.013	0.953-1.073
Chloromethane	5.00	8.75	0.571	ok	0.573	0.513-0.633
3-Chloropropene	7.01	8.75	0.801	ok	0.802	0.742-0.862
2-Chlorotoluene	17.00	14.71	1.156	ok	1.157	1.097-1.217
Carbon tetrachloride	10.30	8.75	1.177	ok	1.177	1.117-1.237
Cyclohexane	10.40	10.48	0.992	ok	0.994	0.934-1.054
1,1-Dichloroethane	7.88	8.75	0.901	ok	0.901	0.841-0.961
1,1-Dichloroethylene	6.81	8.75	0.778	ok	0.781	0.721-0.841
1,2-Dibromoethane	13.61	14.71	0.925	ok	0.924	0.864-0.984
1,2-Dichloroethane	9.53	8.75	1.089	ok	1.089	1.029-1.149
1,2-Dichloropropane	10.93	10.48	1.043	ok	1.043	0.983-1.103
1,4-Dioxane	11.20	10.48	1.069	ok	1.074	1.014-1.134
Dichlorodifluoromethane	4.86	8.75	0.555	ok	0.556	0.496-0.616
Dibromochloromethane	13.36	14.71	0.908	ok	0.907	0.847-0.967
trans-1,2-Dichloroethylene	7.69	8.75	0.879	ok	0.880	0.820-0.940
cis-1,2-Dichloroethylene	8.59	8.75	0.982	ok	0.982	0.922-1.042
cis-1,3-Dichloropropene	11.96	10.48	1.141	ok	1.142	1.082-1.202
m-Dichlorobenzene	17.92	14.71	1.218	ok	1.219	1.159-1.279
o-Dichlorobenzene	18.37	14.71	1.249	ok	1.250	1.190-1.310
p-Dichlorobenzene	18.00	14.71	1.224	ok	1.224	1.164-1.284
trans-1,3-Dichloropropene	12.47	10.48	1.190	ok	1.191	1.131-1.251
2,3-Dimethylpentane	10.60	10.48	1.011	ok	1.013	0.953-1.073
2,4-Dimethylpentane	9.53	8.75	1.089	ok	1.090	1.030-1.150
Ethanol	5.97	8.75	0.682	ok	0.677	0.617-0.737
Ethylbenzene	15.14	14.71	1.029	ok	1.029	0.969-1.089
Ethyl Acetate	8.81	8.75	1.007	ok	1.005	0.945-1.065

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	Reporting this level
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
4-Ethyltoluene	17.19	14.71	1.169	ok	1.169	1.109-1.229
Freon 113	7.11	8.75	0.813	ok	0.814	0.754-0.874
Freon 114	5.08	8.75	0.581	ok	0.581	0.521-0.641
Freon 123	6.06	8.75	0.693	ok	0.694	0.634-0.754
Freon 152A	4.72	8.75	0.539	ok	0.541	0.481-0.601
Heptane	11.37	10.48	1.085	ok	1.087	1.027-1.147
Hexachlorobutadiene	20.79	14.71	1.413	ok	1.415	1.355-1.475
Hexane	8.74	8.75	0.999	ok	1.000	0.940-1.060
2-Hexanone	13.18	14.71	0.896	ok	0.897	0.837-0.957
Isopropylbenzene	16.47	14.71	1.120	ok	1.120	1.060-1.180
Isopropyl Alcohol	6.55	8.75	0.749	ok	0.745	0.685-0.805
Methylene chloride	6.91	8.75	0.790	ok	0.791	0.731-0.851
Methyl ethyl ketone	8.28	8.75	0.946	ok	0.944	0.884-1.004
Methyl Isobutyl Ketone	12.01	10.48	1.146	ok	1.149	1.089-1.209
Methyl Tert Butyl Ether	7.94	8.75	0.907	ok	0.908	0.848-0.968
Methylmethacrylate	11.33	10.48	1.081	ok	1.082	1.022-1.142
Nonane	16.03	14.71	1.090	ok	1.091	1.031-1.151
Octane	13.85	14.71	0.942	ok	0.942	0.882-1.002
Pentane	6.57	8.75	0.751	ok	0.752	0.692-0.812
Propylene	4.79	8.75	0.547	ok	0.548	0.488-0.608
Styrene	15.72	14.71	1.069	ok	1.069	1.009-1.129
1,1,1-Trichloroethane	9.74	8.75	1.113	ok	1.114	1.054-1.174
1,1,2,2-Tetrachloroethane	15.84	14.71	1.077	ok	1.077	1.017-1.137
1,1,2-Trichloroethane	12.65	10.48	1.207	ok	1.208	1.148-1.268
1,2,4-Trichlorobenzene	20.29	14.71	1.379	ok	1.381	1.321-1.441
1,2,4-Trimethylbenzene	17.73	14.71	1.205	ok	1.206	1.146-1.266
1,3,5-Trimethylbenzene	17.28	14.71	1.175	ok	1.175	1.115-1.235
2,2,4-Trimethylpentane	11.15	10.48	1.064	ok	1.064	1.004-1.124
Tertiary Butyl Alcohol	7.04	8.75	0.805	ok	0.802	0.742-0.862
Tetrachloroethylene	14.04	14.71	0.954	ok	0.955	0.895-1.015
Tetrahydrofuran	9.27	8.75	1.059	ok	1.062	1.002-1.122
Toluene	12.91	10.48	1.232	ok	1.233	1.173-1.293
Trichloroethylene	11.14	10.48	1.063	ok	1.064	1.004-1.124
Trichlorofluoromethane	6.30	8.75	0.720	ok	0.721	0.661-0.781
Vinyl chloride	5.19	8.75	0.593	ok	0.594	0.534-0.654
Vinyl Acetate	7.99	8.75	0.913	ok	0.913	0.853-0.973
m,p-Xylene	15.33	14.71	1.042	ok	1.042	0.982-1.102
o-Xylene	15.84	14.71	1.077	ok	1.077	1.017-1.137
TVHC As Equiv Pentane	6.57	8.75	0.751	ok	0.748	0.688-0.808

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	Reporting this level
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	

Target Compound	RT (min.)		Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
TVHC As Equiv Heptane	11.37		10.48	1.085	ok	1.087	1.027-1.147

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.75	ok	8.73	8.40-9.06	118351	ok	119492	71695-167289
1,4-Difluorobenzene	10.48	ok	10.45	10.12-10.78	521072	ok	602171	361303-843039
Chlorobenzene-D5	14.71	ok	14.70	14.37-15.03	483010	ok	504656	302794-706518

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
VW830-ICC830	W19471.D	12/30/08 17:51	BR	10	GCMSW	TO-15	
VW830-IC830	W19472.D	12/30/08 18:31	BR	1.0	GCMSW	TO-15	
VW830-IC830	W19474.D	12/30/08 19:52	BR	0.2	GCMSW	TO-15	
VW830-IC830	W19475.D	12/30/08 20:33	BR	20	GCMSW	TO-15	
VW830-IC830	W19476.D	12/30/08 21:13	BR	5.0	GCMSW	TO-15	
VW830-IC830	W19477.D	12/30/08 21:53	BR	0.5	GCMSW	TO-15	
VW830-IC830	W19478.D	12/30/08 22:34	BR	10	GCMSW	TO-15	
VW830-IC830	W19479.D	12/30/08 23:14	BR	40	GCMSW	TO-15	
VW830-IC830	W19480.D	12/30/08 23:55	BR	0.2	GCMSW	TO-15	Reporting this level

Target Compound	RT (min.)		Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Naphthalene	20.42		14.75	1.384	ok	1.387	1.327-1.447

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	8.72	ok	8.73	8.40-9.06	121337	ok	119492	71695-167289
1,4-Difluorobenzene	10.44	ok	10.45	10.12-10.78	607956	ok	602171	361303-843039
Chlorobenzene-D5	14.75	ok	14.70	14.37-15.03	481446	ok	504656	302794-706518

Volatile Surrogate Recovery Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Method: TO-15 Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JA8427-1	W19570.D	101.0
JA8427-2	W19571.D	99.0
JA8551-6DUP	W19573.D	100.0
VW818-SCC	W19173.D	95.0
VW834-BS	W19564.D	116.0
VW834-BSD	W19565.D	115.0
VW834-MB	W19567.D	101.0
VW818-BS	W19150.D	103.0
VW818-BSD	W19151.D	102.0
VW818-MB	W19152.D	93.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	78-124%

Initial Calibration Summary

Job Number: JA8427 **Sample:** VW816-ICC816
Account: MWKSW MWH **Lab FileID:** W19113.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration

Calibration Files
0.2 =W19112.D 0.5 =W19117.D 1.0 =W19114.D 5.0 =W19116.D
10. =W19113.D 20. =W19115.D 40. =W19119.D 99 =W19118.D

Compound	0.2	0.5	1.0	5.0	10.	20.	40.	99	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------									
2) FREON 115									0.000	-1.00
3) FREON 152A	1.305	0.995	0.980	1.035	1.044	0.935	0.875		1.024	13.37
4) CHLORODIFLUO	0.409	0.342	0.332	0.345	0.350	0.313	0.301		0.342	10.16
5) DICHLORODIFL	4.610	3.869	3.720	4.040	3.986	3.561	3.422		3.887	10.00
6) PROPYLENE	2.181	1.346	1.272	1.202	1.278	1.092	0.957		1.333	29.74
7) FREON 114	5.521	4.730	4.476	4.922	4.860	4.418	4.126		4.722	9.49
8) CHLOROMETHAN	2.048	1.594	1.485	1.537	1.586	1.425	1.313		1.570	14.81
9) VINYL CHLORI	2.179	1.824	1.774	1.864	1.888	1.711	1.620		1.837	9.62
10) 1,3-BUTADIEN	1.641	1.368	1.323	1.405	1.471	1.300	1.206		1.388	10.06
11) n-BUTANE	3.610	2.763	2.629	2.685	2.912	2.490	2.186		2.754	16.04
12) BROMOMETHANE	1.841	1.590	1.503	1.634	1.589	1.475	1.443		1.582	8.45
13) CHLOROETHANE	1.235	0.988	0.998	1.034	1.068	0.972	0.927		1.032	9.70
14) FREON 123	2.921	2.478	2.429	2.596	2.611	2.369	2.160		2.509	9.44
15) TRICHLOROFLU	4.782	4.025	3.875	4.198	4.178	3.781	3.642		4.069	9.21
16) ISOPROPYL AL	2.282	1.918	2.071	1.925	2.203	1.963	1.821		2.026	8.23
17) ACETONE	0.911	0.773	0.773	0.695	0.795	0.761	0.706		0.773	9.19
18) PENTANE	2.356	1.474	1.454	1.504	1.661	1.367	1.091		1.558	25.17
19) TVHC as EQUI	1.416	0.864	0.771	1.022	1.107	0.967	0.811		0.994	E1 22.22
20) ETHYL ETHER	0.990	0.861	0.860	0.867	0.922	0.851	0.765		0.874	7.90
21) 1,1-DICHLORO	2.522	1.991	1.845	1.921	1.843	1.688	1.634		1.920	15.25
22) CARBON DISUL	6.084	5.085	4.963	5.387	5.265	4.736	4.513		5.147	9.90
23) ETHANOL	0.841	0.600	0.579	0.504	0.593	0.558	0.518		0.599	18.84
24) BROMOETHENE	1.844	1.542	1.516	1.633	1.583	1.480	1.452		1.578	8.36
25) METHYLENE CH	2.472	1.817	1.664	1.656	1.629	1.491	1.438		1.738	19.93
26) 3-CHLOROPROP	0.887	0.764	0.763	0.842	0.828	0.768	0.747		0.800	6.58
27) FREON 113	3.415	2.939	2.826	3.245	3.061	2.862	2.788		3.020	7.78
28) TRANS-1,2-DI	2.268	1.964	1.736	1.818	1.724	1.600	1.577		1.812	13.22
29) TERTIARY BUT	2.398	2.194	2.129	2.064	2.178	1.988	1.604		2.079	11.80
30) METHYL TERTI	4.828	4.435	4.255	4.259	4.387	4.270	4.052		4.355	5.54
31) TETRAHYDROFU	1.759	1.545	1.544	1.496	1.694	1.597	1.462		1.585	6.74
32) HEXANE	3.480	2.834	2.754	3.003	3.007	2.650	2.404		2.876	11.78
33) VINYL ACETAT	0.356	0.408	0.396	0.455	0.452	0.445	0.438		0.421	8.66
34) 1,1-DICHLORO	3.644	3.096	3.045	3.305	3.256	2.913	2.767		3.147	9.13
35) METHYL ETHYL	0.736	0.756	0.736	0.764	0.781	0.781	0.760		0.759	2.48
36) cis-1,2-DICH	2.358	2.166	1.701	1.987	1.889	1.757	1.745		1.943	12.59
37) ETHYL ACETAT	0.420	0.409	0.412	0.417	0.443	0.428	0.408		0.420	2.92
38) CHLOROFORM	3.748	3.154	3.074	3.459	3.341	3.064	3.002		3.263	8.26
39) 2,4-DIMETHYL	3.893	3.166	3.203	3.550	3.534	3.058	2.545		3.279	13.19
40) 1,1,1-TRICHL	3.714	3.191	3.052	3.490	3.379	3.131	3.086		3.292	7.45
41) CARBON TETRA	3.778	3.271	3.144	3.621	3.505	3.267	3.237		3.403	6.88
42) 1,2-DICHLORO	2.148	1.815	1.767	1.899	1.947	1.760	1.662		1.857	8.57
43) I 1,4-DIFLUOROBENZENE	----------ISTD----------									
44) BENZENE	1.261	1.094	1.073	1.209	1.149	1.056	1.048		1.127	7.27
45) CYCLOHEXANE	0.613	0.498	0.488	0.555	0.520	0.483	0.488		0.521	9.22

Initial Calibration Summary

Job Number: JA8427 **Sample:** VW816-ICC816
Account: MWKSW MWH **Lab FileID:** W19113.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

46)	2,3-DIMETHYL	0.296	0.257	0.254	0.292	0.282	0.258	0.250	0.270	7.14
47)	TRICHLOROETH	0.490	0.425	0.422	0.487	0.477	0.430	0.358	0.441	10.73
48)	1,2-DICHLORO	0.446	0.375	0.372	0.402	0.402	0.368	0.354	0.388	7.96
49)	BROMODICHLOR	0.716	0.626	0.620	0.713	0.704	0.641	0.580	0.657	8.19
50)	2,2,4-TRIMET	1.958	1.630	1.685	1.862	1.830	1.464	1.015	1.635	19.51
51)	1,4-DIOXANE	0.156	0.172	0.169	0.173	0.170	0.170	0.173	0.169	3.46
52)	METHYL METHA	0.308	0.316	0.315	0.335	0.352	0.358	0.360	0.335	6.55
53)	HEPTANE	0.741	0.569	0.577	0.628	0.646	0.557	0.488	0.601	13.33
54)	TVHC as EQUI	3.260	2.745	2.676	2.842	2.838	2.526	2.292	2.740	10.96
55)	METHYL ISOBU	0.575	0.553	0.559	0.564	0.611	0.565	0.537	0.566	4.05
56)	cis-1,3-DICH	0.573	0.506	0.507	0.588	0.586	0.554	0.554	0.553	6.23
57)	TOLUENE	0.814	0.720	0.706	0.831	0.814	0.778	0.763	0.775	6.23
58)	trans-1,3-DI	0.512	0.468	0.464	0.557	0.566	0.542	0.541	0.521	7.95
59)	1,1,2-TRICHL	0.350	0.312	0.312	0.359	0.357	0.340	0.337	0.338	5.86
60)	I CHLOROBENZENE-D5	----------ISTD----------								
61)	2-HEXANONE	0.613	0.590	0.591	0.600	0.624	0.571	0.552	0.591	4.15
62)	TETRACHLOROE	0.595	0.522	0.503	0.617	0.571	0.547	0.541	0.556	7.26
63)	DIBROMOCHLOR	0.752	0.695	0.681	0.844	0.792	0.745	0.735	0.749	7.44
64)	1,2-DIBROMOE	0.680	0.614	0.614	0.735	0.707	0.674	0.670	0.670	6.67
65)	OCTANE	1.029	0.847	0.881	0.976	0.974	0.796	0.645	0.878	14.94
66)	CHLOROBENZEN	1.226	1.087	1.044	1.217	1.139	1.067	1.064	1.120	6.69
67)	ETHYLBENZENE	1.816	1.681	1.687	1.950	1.885	1.744	1.650	1.773	6.42
68)	m,p-XYLENE	0.702	0.673	0.669	0.787	0.760	0.702	0.616	0.701	8.22
69)	o-XYLENE	0.671	0.634	0.636	0.756	0.745	0.674	0.570	0.669	9.73
70)	STYRENE	0.881	0.901	0.926	1.153	1.143	1.088	1.067	1.023	11.42
71)	NONANE	0.890	0.750	0.791	0.905	0.909	0.745	0.586	0.797	14.69
72)	BROMOFORM	0.611	0.568	0.580	0.774	0.752	0.731	0.733	0.678	13.03
73)	4-BROMOFLUOR	0.618	0.626	0.638	0.650	0.677	0.660	0.656	0.646	3.20
74)	1,1,2,2-TETR	0.774	0.707	0.709	0.875	0.880	0.785	0.627	0.765	12.07
75)	ISOPROPYLBEN	1.725	1.633	1.637	1.968	1.925	1.784	1.648	1.760	7.90
76)	2-CHLOROTOLU	1.162	1.062	1.058	1.342	1.308	1.203	1.147	1.183	9.33
77)	4-ETHYLTOLUE	1.477	1.501	1.538	1.848	1.847	1.739	1.593	1.649	9.70
78)	1,3,5-TRIMET	1.333	1.314	1.334	1.563	1.577	1.489	1.378	1.427	7.97
79)	1,2,4-TRIMET	1.193	1.184	1.226	1.465	1.485	1.422	1.333	1.330	9.78
80)	m-DICHLOROBE	0.809	0.774	0.765	1.008	1.001	0.950	0.890	0.885	11.79
81)	BENZYL CHLOR	0.721	0.763	0.793	1.081	1.142	1.109	1.007	0.946	19.04
82)	p-DICHLOROBE	0.756	0.731	0.722	0.954	0.942	0.909	0.892	0.844	12.23
83)	o-DICHLOROBE	0.700	0.667	0.655	0.855	0.839	0.813	0.811	0.763	11.24
84)	HEXACHLOROBU	0.270	0.252	0.266	0.310	0.307	0.288	0.299	0.285	7.86
85)	1,2,4-TRICHL	0.164	0.178	0.185	0.273	0.287	0.301	0.351	0.249	29.11
86)	NAPHTHALENE							0.514	0.514	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

MW816.M Wed Dec 10 09:09:26 2008 MSW

5.9

Initial Calibration Verification

Job Number: JA8427 **Sample:** VW817-ICV816
Account: MWKSW MWH **Lab FileID:** W19126.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W19126.D Vial: 3
Acq On : 9 Dec 2008 12:10 pm Operator: BENR
Sample : ICV816-10 Inst : MSW
Misc : MS49009,VW817,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	101	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.07#
3		FREON 152A	1.024	0.876	14.5	85	0.00
4		CHLORODIFLUOROMETHANE	0.342	0.309	9.6	90	-0.01
5		DICHLORODIFLUOROMETHANE	3.887	3.512	9.6	89	0.00
6		PROPYLENE	1.333	1.088	18.4	86	-0.01
7		FREON 114	4.722	4.285	9.3	89	-0.01
8		CHLOROMETHANE	1.570	1.654	-5.4	106	-0.01
9		VINYL CHLORIDE	1.837	1.660	9.6	89	-0.01
10		1,3-BUTADIENE	1.388	1.303	6.1	90	-0.01
11		n-BUTANE	2.754	2.543	7.7	89	-0.01
12		BROMOMETHANE	1.582	1.409	10.9	90	0.00
13		CHLOROETHANE	1.032	0.936	9.3	89	-0.01
14		FREON 123	2.509	2.399	4.4	93	-0.01
15		TRICHLOROFLUOROMETHANE	4.069	3.821	6.1	93	0.00
16		ISOPROPYL ALCOHOL	2.026	1.951	3.7	90	-0.06
17		ACETONE	0.773	0.719	7.0	92	-0.03
18		PENTANE	1.558	1.456	6.5	89	-0.01
19	H	TVHC as EQUIV PENTANE	9.941	9.835	1.1	90	-0.01
20		ETHYL ETHER	0.874	0.810	7.3	89	-0.02
21		1,1-DICHLOROETHYLENE	1.920	1.599	16.7	88	0.00
22		CARBON DISULFIDE	5.147	4.741	7.9	91	-0.01
23		ETHANOL	0.599	0.502	16.2	86	-0.04
24		BROMOETHENE	1.578	1.542	2.3	99	-0.01
25		METHYLENE CHLORIDE	1.738	1.437	17.3	89	-0.01
26		3-CHLOROPROPENE	0.800	0.770	3.8	94	-0.01
27		FREON 113	3.020	2.578	14.6	85	-0.01
28		TRANS-1,2-DICHLOROETHYLENE	1.812	1.569	13.4	92	-0.01
29		TERTIARY BUTYL ALCOHOL	2.079	1.975	5.0	92	-0.07
30		METHYL TERTIARY BUTYL ETHER	4.355	4.043	7.2	93	-0.02
31		TETRAHYDROFURAN	1.585	1.579	0.4	95	-0.04
32		HEXANE	2.876	2.833	1.5	96	-0.01
33		VINYL ACETATE	0.421	0.405	3.8	91	-0.02
34		1,1-DICHLOROETHANE	3.147	2.961	5.9	92	-0.01
35		METHYL ETHYL KETONE	0.759	0.710	6.5	92	-0.03
36		cis-1,2-DICHLOROETHYLENE	1.943	1.702	12.4	91	-0.02
37		ETHYL ACETATE	0.420	0.407	3.1	93	-0.04
38		CHLOROFORM	3.263	3.061	6.2	93	-0.02
39		2,4-DIMETHYLPENTANE	3.279	3.317	-1.2	95	-0.02
40		1,1,1-TRICHLOROETHANE	3.292	3.123	5.1	94	-0.02
41		CARBON TETRACHLORIDE	3.403	3.252	4.4	94	-0.01
42		1,2-DICHLOROETHANE	1.857	1.806	2.7	94	-0.02

Initial Calibration Verification

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample: VW817-ICV816
Lab FileID: W19126.D

43	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	-0.02
44		BENZENE	1.127	1.033	8.3	92	-0.02
45		CYCLOHEXANE	0.521	0.480	7.9	94	-0.02
46		2,3-DIMETHYLPENTANE	0.270	0.258	4.4	93	-0.01
47		TRICHLOROETHYLENE	0.441	0.429	2.7	92	-0.02
48		1,2-DICHLOROPROPANE	0.388	0.363	6.4	92	-0.02
49		BROMODICHLOROMETHANE	0.657	0.656	0.2	95	-0.02
50		2,2,4-TRIMETHYLPENTANE	1.635	1.774	-8.5	99	-0.02
51		1,4-DIOXANE	0.169	0.157	7.1	94	-0.04
52		METHYL METHACRYLATE	0.335	0.314	6.3	91	-0.04
53		HEPTANE	0.601	0.607	-1.0	96	-0.02
54	H	TVHC as EQUIV HEPTANE	2.740	2.644	3.5	95	-0.02
55		METHYL ISOBUTYL KETONE	0.566	0.566	0.0	94	-0.04
56		cis-1,3-DICHLOROPROPENE	0.553	0.535	3.3	93	-0.02
57		TOLUENE	0.775	0.720	7.1	90	-0.02
58		trans-1,3-DICHLOROPROPENE	0.521	0.517	0.8	93	-0.02
59		1,1,2-TRICHLOROETHANE	0.338	0.318	5.9	91	-0.02
60	I	CHLOROBENZENE-D5	1.000	1.000	0.0	99	-0.02
61		2-HEXANONE	0.591	0.591	0.0	94	-0.03
62		TETRACHLOROETHYLENE	0.556	0.509	8.5	88	-0.01
63		DIBROMOCHLOROMETHANE	0.749	0.749	0.0	94	-0.02
64		1,2-DIBROMOETHANE	0.670	0.640	4.5	90	-0.02
65		OCTANE	0.878	0.945	-7.6	96	-0.01
66		CHLOROBENZENE	1.120	1.026	8.4	89	-0.01
67		ETHYLBENZENE	1.773	1.711	3.5	90	-0.01
68		m,p-XYLENE	0.701	0.687	2.0	89	-0.01
69		o-XYLENE	0.669	0.668	0.1	89	-0.01
70		STYRENE	1.023	1.010	1.3	87	-0.01
71		NONANE	0.797	0.940	-17.9	102	-0.01
72		BROMOFORM	0.678	0.694	-2.4	91	-0.02
73	S	4-BROMOFLUOROBENZENE	0.646	0.660	-2.2	96	-0.01
74		1,1,2,2-TETRACHLOROETHANE	0.765	0.820	-7.2	92	-0.01
75		ISOPROPYLBENZENE	1.760	1.853	-5.3	95	-0.01
76		2-CHLOROTOLUENE	1.183	1.264	-6.8	95	-0.01
77		4-ETHYLTOLUENE	1.649	1.733	-5.1	93	0.00
78		1,3,5-TRIMETHYLBENZENE	1.427	1.448	-1.5	91	0.00
79		1,2,4-TRIMETHYLBENZENE	1.330	1.374	-3.3	91	0.00
80		m-DICHLOROBENZENE	0.885	0.900	-1.7	89	0.00
81		BENZYL CHLORIDE	0.946	1.118	-18.2	97	0.00
82		p-DICHLOROBENZENE	0.844	0.853	-1.1	89	-0.01
83		o-DICHLOROBENZENE	0.763	0.765	-0.3	90	0.00
84		HEXACHLOROBUTADIENE	0.285	0.321	-12.6	103	0.00
85		1,2,4-TRICHLOROBENZENE	0.249	0.302	-21.3	104	0.00
86		NAPHTHALENE	0.514	0.000	100.0#	0#	-20.44#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W19113.D MW816.M Wed Dec 10 09:09:24 2008 MSW

Continuing Calibration Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS
Sample: VW818-CC816
Lab FileID: W19149.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	83	0.00
2		FREON 115	0.000	0.000	0.0	0#	-5.07#
3		FREON 152A	1.024	0.926	9.6	74	0.01
4		CHLORODIFLUOROMETHANE	0.342	0.364	-6.4	88	0.01
5		DICHLORODIFLUOROMETHANE	3.887	4.199	-8.0	86	0.01
6		PROPYLENE	1.333	1.025	23.1	71	0.00
7		FREON 114	4.722	5.041	-6.8	85	0.00
8		CHLOROMETHANE	1.570	1.801	-14.7	97	0.00
9		VINYL CHLORIDE	1.837	1.842	-0.3	82	0.00
10		1,3-BUTADIENE	1.388	1.380	0.6	82	0.00
11		n-BUTANE	2.754	2.676	2.8	83	0.00
12		BROMOMETHANE	1.582	1.665	-5.2	85	0.01
13		CHLOROETHANE	1.032	1.061	-2.8	85	0.00
14		FREON 123	2.509	2.663	-6.1	85	0.00
15		TRICHLOROFLUOROMETHANE	4.069	4.861	-19.5	96	0.00
16		ISOPROPYL ALCOHOL	2.026	2.233	-10.2	96	-0.02
17		ACETONE	0.773	0.732	5.3	88	0.00
18		PENTANE	1.558	1.715	-10.1	95	0.00
19	H	TVHC as EQUIV PENTANE	9.941	11.462	-15.3	93	0.00
20		ETHYL ETHER	0.874	0.883	-1.0	85	0.00
21		1,1-DICHLOROETHYLENE	1.920	1.932	-0.6	84	0.00
22		CARBON DISULFIDE	5.147	5.465	-6.2	84	0.00
23		ETHANOL	0.599	0.534	10.9	88	0.00
24		BROMOETHENE	1.578	1.678	-6.3	85	0.00
25		METHYLENE CHLORIDE	1.738	1.669	4.0	84	0.00
26		3-CHLOROPROPENE	0.800	0.834	-4.2	82	0.00
27		FREON 113	3.020	3.017	0.1	77	0.00
28		TRANS-1,2-DICHLOROETHYLENE	1.812	1.752	3.3	80	0.00
29		TERTIARY BUTYL ALCOHOL	2.079	2.317	-11.4	93	-0.02
30		METHYL TERTIARY BUTYL ETHER	4.355	4.427	-1.7	86	0.00
31		TETRAHYDROFURAN	1.585	1.593	-0.5	88	0.00
32		HEXANE	2.876	3.058	-6.3	85	0.00
33		VINYL ACETATE	0.421	0.423	-0.5	77	0.00
34		1,1-DICHLOROETHANE	3.147	3.367	-7.0	85	0.00
35		METHYL ETHYL KETONE	0.759	0.765	-0.8	83	0.00
36		cis-1,2-DICHLOROETHYLENE	1.943	1.894	2.5	79	0.00
37		ETHYL ACETATE	0.420	0.430	-2.4	85	-0.01
38		CHLOROFORM	3.263	3.615	-10.8	87	0.00
39		2,4-DIMETHYLPENTANE	3.279	3.646	-11.2	85	0.00
40		1,1,1-TRICHLOROETHANE	3.292	3.790	-15.1	90	0.00
41		CARBON TETRACHLORIDE	3.403	4.034	-18.5	93	0.00
42		1,2-DICHLOROETHANE	1.857	2.150	-15.8	94	-0.01

Continuing Calibration Summary

Job Number: JA8427 **Sample:** VW818-CC816
Account: MWKSW MWH **Lab FileID:** W19149.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

43	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	87	0.00
44		BENZENE	1.127	1.099	2.5	79	-0.01
45		CYCLOHEXANE	0.521	0.516	1.0	81	0.00
46		2,3-DIMETHYLPENTANE	0.270	0.273	-1.1	82	0.00
47		TRICHLOROETHYLENE	0.441	0.465	-5.4	83	0.00
48		1,2-DICHLOROPROPANE	0.388	0.373	3.9	81	0.00
49		BROMODICHLOROMETHANE	0.657	0.713	-8.5	87	-0.01
50		2,2,4-TRIMETHYLPENTANE	1.635	1.832	-12.0	86	-0.01
51		1,4-DIOXANE	0.169	0.168	0.6	84	0.00
52		METHYL METHACRYLATE	0.335	0.325	3.0	85	-0.02
53		HEPTANE	0.601	0.639	-6.3	89	-0.01
54	H	TVHC as EQUIV HEPTANE	2.740	2.837	-3.5	87	0.00
55		METHYL ISOBUTYL KETONE	0.566	0.612	-8.1	95	-0.01
56		cis-1,3-DICHLOROPROPENE	0.553	0.563	-1.8	83	-0.01
57		TOLUENE	0.775	0.732	5.5	77	-0.01
58		trans-1,3-DICHLOROPROPENE	0.521	0.548	-5.2	86	-0.01
59		1,1,2-TRICHLOROETHANE	0.338	0.323	4.4	78	-0.02
60	I	CHLOROBENZENE-D5	1.000	1.000	0.0	87	-0.01
61		2-HEXANONE	0.591	0.655	-10.8	95	0.00
62		TETRACHLOROETHYLENE	0.556	0.541	2.7	76	0.00
63		DIBROMOCHLOROMETHANE	0.749	0.799	-6.7	82	-0.01
64		1,2-DIBROMOETHANE	0.670	0.667	0.4	79	-0.01
65		OCTANE	0.878	0.990	-12.8	88	0.00
66		CHLOROBENZENE	1.120	1.074	4.1	77	0.00
67		ETHYLBENZENE	1.773	1.758	0.8	78	0.00
68		m,p-XYLENE	0.701	0.689	1.7	76	0.00
69		o-XYLENE	0.669	0.661	1.2	76	0.00
70		STYRENE	1.023	0.997	2.5	75	-0.01
71		NONANE	0.797	0.895	-12.3	86	0.00
72		BROMOFORM	0.678	0.688	-1.5	77	-0.01
73	S	4-BROMOFLUOROBENZENE	0.646	0.661	-2.3	88	0.00
74		1,1,2,2-TETRACHLOROETHANE	0.765	0.800	-4.6	79	0.00
75		ISOPROPYLBENZENE	1.760	1.769	-0.5	78	0.00
76		2-CHLOROTOLUENE	1.183	1.206	-1.9	78	0.00
77		4-ETHYLTOLUENE	1.649	1.686	-2.2	79	0.00
78		1,3,5-TRIMETHYLBENZENE	1.427	1.435	-0.6	80	0.00
79		1,2,4-TRIMETHYLBENZENE	1.330	1.356	-2.0	80	0.00
80		m-DICHLOROBENZENE	0.885	0.863	2.5	74	0.00
81		BENZYL CHLORIDE	0.946	1.055	-11.5	85	0.00
82		p-DICHLOROBENZENE	0.844	0.811	3.9	74	0.00
83		o-DICHLOROBENZENE	0.763	0.732	4.1	74	0.00
84		HEXACHLOROBUTADIENE	0.285	0.291	-2.1	81	0.00
85		1,2,4-TRICHLOROBENZENE	0.249	0.265	-6.4	84	0.00
86		NAPHTHALENE	0.514	0.000	100.0#	0#	-20.44#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W19116.D MW816.M Thu Dec 11 10:06:09 2008 MSW

5.9

Initial Calibration Summary

Job Number: JA8427 **Sample:** VW830-ICC830
Account: MWKSW MWH **Lab FileID:** W19471.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Response Factor Report MSW

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration

Calibration Files
0.2 =W19474.D 0.5 =W19477.D 1.0 =W19472.D 5.0 =W19476.D
10. =W19471.D 20. =W19475.D 40. =W19479.D 99 =W19478.D

	Compound	0.2	0.5	1.0	5.0	10.	20.	40.	99	Avg	%RSD
1)	I BROMOCHLOROMETHANE	----------ISTD----------									
2)	FREON 115									0.000	-1.00
3)	FREON 152A	1.395	1.208	1.109	1.245	1.059	1.099	1.034		1.164	10.93
4)	CHLORODIFLUO	0.780	0.607	0.523	0.654	0.508	0.604	0.587		0.609	14.88
5)	DICHLORODIFL	7.198	5.874	5.245	6.158	5.049	5.559	5.396		5.783	12.59
6)	PROPYLENE	2.381	1.857	1.567	1.799	1.410	1.625	1.506		1.735	18.75
7)	FREON 114	6.538	5.581	4.926	5.961	5.048	5.333	5.289		5.525	10.18
8)	CHLOROMETHAN	0.706	0.593	0.530	0.617	0.490	0.535	0.502		0.567	13.48
9)	VINYL CHLORI	2.454	2.094	1.846	2.187	1.824	1.958	1.889		2.036	11.15
10)	1,3-BUTADIEN	1.879	1.542	1.398	1.724	1.402	1.650	1.589		1.598	10.82
11)	n-BUTANE	4.450	3.692	3.062	3.877	2.930	3.573	3.335		3.560	14.52
12)	BROMOMETHANE	2.008	1.628	1.513	1.755	1.501	1.460	1.414		1.611	12.96
13)	CHLOROETHANE	1.325	1.146	0.991	1.215	0.975	1.035	0.982		1.096	12.43
14)	FREON 123	3.246	2.880	2.500	2.908	2.536	2.731	2.793		2.799	9.01
15)	TRICHLOROFLU	8.176	6.532	5.565	6.679	5.408	6.241	6.226		6.404	14.24
16)	ISOPROPYL AL	3.504	4.408	2.548	3.009	2.534	2.986	3.800		3.255	21.14
17)	ACETONE	1.269	1.017	0.905	0.863	0.752	0.834	0.825		0.923	18.71
18)	PENTANE	3.390	2.881	2.135	2.561	1.845	2.556	2.508		2.554	19.49
19)	TVHC as EQUI	1.656	1.382	1.360	1.473	1.227	1.457	2.031		1.512	E1 17.41
20)	ETHYL ETHER	1.163	1.016	0.912	1.025	0.876	0.977	1.029		1.000	9.30
21)	1,1-DICHLORO	2.512	2.028	1.757	1.999	1.716	1.713	1.746		1.925	15.15
22)	CARBON DISUL	6.899	5.578	4.920	5.904	4.791	5.054	5.068		5.459	13.67
23)	ETHANOL	0.969	0.746	0.641	0.700	0.574	0.670	0.622		0.703	18.44
24)	BROMOETHENE	1.995	1.712	1.537	1.767	1.552	1.521	1.541		1.661	10.62
25)	METHYLENE CH	2.536	1.875	1.621	1.727	1.471	1.514	1.518		1.752	21.33
26)	3-CHLOROPROP	0.987	0.827	0.779	0.915	0.767	0.844	0.845		0.852	9.04
27)	FREON 113	4.006	3.320	3.022	3.513	3.150	3.215	3.539		3.395	9.65
28)	TRANS-1,2-DI	2.113	1.819	1.533	1.913	1.593	1.554	1.582		1.730	12.89
29)	TERTIARY BUT	3.865	3.011	2.819	3.297	2.676	3.201	2.637		3.072	14.00
30)	METHYL TERTI	6.639	6.098	5.322	6.227	5.343	5.887	5.959		5.925	7.96
31)	TETRAHYDROFU	2.603	2.293	2.044	2.413	2.029	2.377	2.337		2.299	8.89
32)	HEXANE	4.018	3.454	3.099	3.824	3.113	3.432	3.407		3.478	9.80
33)	VINYL ACETAT	0.349	0.408	0.394	0.478	0.435	0.422	0.431		0.417	9.51
34)	1,1-DICHLORO	4.788	4.199	3.604	4.328	3.540	3.926	3.889		4.039	10.80
35)	METHYL ETHYL	0.728	0.736	0.743	0.844	0.774	0.767	0.762		0.765	5.07
36)	cis-1,2-DICH	2.146	1.876	1.723	1.978	1.789	1.715	1.699		1.846	9.00
37)	ETHYL ACETAT	0.455	0.442	0.453	0.500	0.453	0.459	0.455		0.460	3.98
38)	CHLOROFORM	5.203	4.541	3.973	4.801	4.010	4.374	4.343		4.463	9.74
39)	2,4-DIMETHYL	4.471	3.977	3.580	4.483	3.743	4.148	4.178		4.083	8.39
40)	1,1,1-TRICHL	5.790	5.207	4.510	5.495	4.542	5.133	5.161		5.120	9.11
41)	CARBON TETRA	6.294	5.288	4.687	5.892	4.808	5.420	5.528		5.417	10.47
42)	1,2-DICHLORO	3.916	3.546	2.974	3.644	2.885	3.637	3.639		3.463	11.06
43)	I 1,4-DIFLUOROBENZENE	----------ISTD----------									
44)	BENZENE	1.202	1.086	0.984	1.220	1.079	1.133	1.245		1.136	8.23
45)	CYCLOHEXANE	0.619	0.477	0.439	0.546	0.476	0.494	0.552		0.515	11.84

Initial Calibration Summary

Job Number: JA8427 **Sample:** VW830-ICC830
Account: MWKSW MWH **Lab FileID:** W19471.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

46)	2,3-DIMETHYL	0.299	0.267	0.241	0.303	0.264	0.287	0.327		0.284	10.14
47)	TRICHLOROETH	0.526	0.475	0.433	0.554	0.493	0.612	0.710		0.543	17.18
48)	1,2-DICHLORO	0.484	0.417	0.373	0.456	0.396	0.437	0.480		0.435	9.67
49)	BROMODICHLOR	0.997	0.895	0.774	1.023	0.857	1.108	1.236		0.984	15.99
50)	2,2,4-TRIMET	2.178	1.930	1.829	2.358	1.965	2.415	2.308		2.140	10.86
51)	1,4-DIOXANE	0.126	0.135	0.158	0.166	0.164	0.149	0.160		0.151	10.07
52)	METHYL METHA	0.340	0.333	0.322	0.403	0.375	0.414	0.482		0.381	14.90
53)	HEPTANE	0.978	0.926	0.743	0.975	0.766	0.960	1.056		0.915	12.73
54)	TVHC as EQUI	4.130	3.713	3.103	4.112	3.113	4.026	4.588		3.826	14.47
55)	METHYL ISOBU	0.823	0.736	0.719	0.965	0.806	0.985	1.110		0.878	16.55
56)	cis-1,3-DICH	0.666	0.593	0.561	0.725	0.638	0.710	0.794		0.670	12.01
57)	TOLUENE	0.711	0.671	0.655	0.818	0.763	0.795	0.929		0.763	12.49
58)	trans-1,3-DI	0.682	0.637	0.594	0.799	0.683	0.793	0.896		0.726	14.66
59)	1,1,2-TRICHL	0.336	0.323	0.297	0.376	0.342	0.365	0.421		0.352	11.52
60)	I CHLOROBENZENE-D5	----------ISTD----------									
61)	2-HEXANONE	0.889	0.793	0.801	1.039	0.861	1.026	1.122		0.933	13.82
62)	TETRACHLOROE	0.530	0.490	0.457	0.566	0.544	0.562	0.706		0.551	14.39
63)	DIBROMOCHLOR	0.904	0.836	0.769	1.006	0.903	0.993	1.141		0.936	13.10
64)	1,2-DIBROMOE	0.714	0.652	0.604	0.784	0.715	0.753	0.858		0.726	11.56
65)	OCTANE	1.492	1.350	1.193	1.573	1.233	1.459	1.514		1.402	10.42
66)	CHLOROBENZEN	1.142	1.024	0.975	1.183	1.098	1.122	1.291		1.119	9.26
67)	ETHYLBENZENE	1.989	1.849	1.760	2.236	2.010	2.169	2.463		2.068	11.63
68)	m,p-XYLENE	0.671	0.637	0.613	0.798	0.751	0.829	1.017		0.760	18.38
69)	o-XYLENE	0.645	0.595	0.583	0.760	0.723	0.814	0.988		0.729	19.53
70)	STYRENE	0.846	0.818	0.863	1.148	1.095	1.144	1.332		1.035	18.86
71)	NONANE	1.354	1.257	1.123	1.543	1.220	1.456	1.510		1.352	11.74
72)	BROMOFORM	0.696	0.628	0.630	0.888	0.833	0.922	1.142		0.820	22.66
73)	4-BROMOFLUOR	0.713	0.721	0.706	0.738	0.713	0.756	0.771		0.731	3.38
74)	1,1,2,2-TETR	0.813	0.736	0.705	0.986	0.907	1.035	1.202		0.912	19.42
75)	ISOPROPYLBEN	1.921	1.767	1.708	2.271	2.074	2.253	2.633		2.090	15.54
76)	2-CHLOROTOLU	1.392	1.259	1.199	1.662	1.458	1.614	1.829		1.488	15.25
77)	4-ETHYLTOLUE	1.638	1.577	1.602	2.140	2.008	2.206	2.568		1.963	19.11
78)	1,3,5-TRIMET	1.552	1.506	1.438	1.916	1.770	1.991	2.360		1.791	18.28
79)	1,2,4-TRIMET	1.369	1.310	1.328	1.828	1.691	1.886	2.227		1.663	20.83
80)	m-DICHLOROBE	0.802	0.711	0.699	1.036	0.998	1.122	1.448		0.974	27.35
81)	BENZYL CHLOR	1.006	0.932	0.950	1.535	1.425	1.703			1.259	26.76
82)	p-DICHLOROBE	0.767	0.659	0.675	0.960	0.929	1.016	1.261		0.895	23.91
83)	o-DICHLOROBE	0.672	0.602	0.604	0.880	0.831	0.895	1.086		0.796	22.47
84)	HEXACHLOROBU	0.333	0.269	0.274	0.411	0.417	0.450	0.554		0.387	26.43
85)	1,2,4-TRICHL	0.177	0.143	0.174	0.304	0.346	0.380			0.254	39.97
86)	NAPHTHALENE								0.637	0.637	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

MW830.M Wed Dec 31 10:36:27 2008 MSW

5.9

5

Initial Calibration Verification

Job Number: JA8427 **Sample:** VW830-ICV830
Account: MWKSW MWH **Lab FileID:** W19481.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W19481.D Vial: 3
Acq On : 31 Dec 2008 12:35 am Operator: BENR
Sample : ICV830-10 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	80	0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.09#
3		FREON 152A	1.164	1.087	6.6	82	0.02
4		CHLORODIFLUOROMETHANE	0.609	0.590	3.1	93	0.02
5		DICHLORODIFLUOROMETHANE	5.783	5.408	6.5	86	0.03
6		PROPYLENE	1.735	1.586	8.6	90	0.02
7		FREON 114	5.525	5.215	5.6	83	0.02
8		CHLOROMETHANE	0.567	0.526	7.2	86	0.03
9		VINYL CHLORIDE	2.036	1.936	4.9	85	0.02
10		1,3-BUTADIENE	1.598	1.561	2.3	89	0.03
11		n-BUTANE	3.560	3.423	3.8	93	0.03
12		BROMOMETHANE	1.611	1.502	6.8	80	0.02
13		CHLOROETHANE	1.096	1.042	4.9	85	0.03
14		FREON 123	2.799	2.731	2.4	86	0.02
15		TRICHLOROFLUOROMETHANE	6.404	6.101	4.7	90	0.02
16		ISOPROPYL ALCOHOL	3.255	2.803	13.9	88	0.07
17		ACETONE	0.923	0.822	10.9	87	0.04
18		PENTANE	2.554	2.437	4.6	105	0.02
19	H	TVHC as EQUIV PENTANE	15.124	16.209	-7.2	106	0.02
20		ETHYL ETHER	1.000	0.934	6.6	85	0.03
21		1,1-DICHLOROETHYLENE	1.925	1.790	7.0	83	0.02
22		CARBON DISULFIDE	5.459	5.353	1.9	89	0.02
23		ETHANOL	0.703	0.662	5.8	92	0.07
24		BROMOETHENE	1.661	1.630	1.9	84	0.02
25		METHYLENE CHLORIDE	1.752	1.584	9.6	86	0.03
26		3-CHLOROPROPENE	0.852	0.863	-1.3	90	0.02
27		FREON 113	3.395	3.222	5.1	82	0.02
28		TRANS-1,2-DICHLOROETHYLENE	1.730	1.735	-0.3	87	0.02
29		TERTIARY BUTYL ALCOHOL	3.072	2.836	7.7	85	0.07
30		METHYL TERTIARY BUTYL ETHER	5.925	5.592	5.6	84	0.04
31		TETRAHYDROFURAN	2.299	2.222	3.3	87	0.04
32		HEXANE	3.478	3.509	-0.9	90	0.02
33		VINYL ACETATE	0.417	0.419	-0.5	77	0.04
34		1,1-DICHLOROETHANE	4.039	3.972	1.7	90	0.02
35		METHYL ETHYL KETONE	0.765	0.750	2.0	77	0.04
36		cis-1,2-DICHLOROETHYLENE	1.846	1.759	4.7	79	0.02
37		ETHYL ACETATE	0.460	0.447	2.8	79	0.04
38		CHLOROFORM	4.463	4.410	1.2	88	0.03
39		2,4-DIMETHYLPENTANE	4.083	4.094	-0.3	87	0.02
40		1,1,1-TRICHLOROETHANE	5.120	5.076	0.9	89	0.02
41		CARBON TETRACHLORIDE	5.417	5.380	0.7	89	0.02
42		1,2-DICHLOROETHANE	3.463	3.450	0.4	96	0.03

Initial Calibration Verification

Job Number: JA8427 **Sample:** VW830-ICV830
Account: MWKSW MWH **Lab FileID:** W19481.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

43	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	75	0.02
44		BENZENE	1.136	1.139	-0.3	79	0.02
45		CYCLOHEXANE	0.515	0.511	0.8	80	0.02
46		2,3-DIMETHYLPENTANE	0.284	0.286	-0.7	81	0.02
47		TRICHLOROETHYLENE	0.543	0.544	-0.2	83	0.02
48		1,2-DICHLOROPROPANE	0.435	0.429	1.4	81	0.02
49		BROMODICHLOROMETHANE	0.984	1.019	-3.6	89	0.02
50		2,2,4-TRIMETHYLPENTANE	2.140	2.378	-11.1	91	0.02
51		1,4-DIOXANE	0.151	0.164	-8.6	75	0.04
52		METHYL METHACRYLATE	0.381	0.376	1.3	75	0.03
53		HEPTANE	0.915	0.954	-4.3	93	0.02
54	H	TVHC as EQUIV HEPTANE	3.826	3.745	2.1	90	0.02
55		METHYL ISOBUTYL KETONE	0.878	0.959	-9.2	89	0.03
56		cis-1,3-DICHLOROPROPENE	0.670	0.687	-2.5	81	0.02
57		TOLUENE	0.763	0.768	-0.7	76	0.02
58		trans-1,3-DICHLOROPROPENE	0.726	0.760	-4.7	83	0.02
59		1,1,2-TRICHLOROETHANE	0.352	0.353	-0.3	77	0.02
60	I	CHLOROBENZENE-D5	1.000	1.000	0.0	73	0.02
61		2-HEXANONE	0.933	1.039	-11.4	88	0.03
62		TETRACHLOROETHYLENE	0.551	0.542	1.6	73	0.02
63		DIBROMOCHLOROMETHANE	0.936	1.002	-7.1	81	0.02
64		1,2-DIBROMOETHANE	0.726	0.740	-1.9	76	0.02
65		OCTANE	1.402	1.512	-7.8	90	0.01
66		CHLOROBENZENE	1.119	1.112	0.6	74	0.01
67		ETHYLBENZENE	2.068	2.107	-1.9	77	0.01
68		m,p-XYLENE	0.760	0.761	-0.1	74	0.01
69		o-XYLENE	0.729	0.738	-1.2	75	0.01
70		STYRENE	1.035	1.088	-5.1	73	0.01
71		NONANE	1.352	1.527	-12.9	92	0.00
72		BROMOFORM	0.820	0.880	-7.3	77	0.01
73	S	4-BROMOFLUOROBENZENE	0.731	0.759	-3.8	78	0.01
74		1,1,2,2-TETRACHLOROETHANE	0.912	0.957	-4.9	77	0.01
75		ISOPROPYLBENZENE	2.090	2.270	-8.6	80	0.00
76		2-CHLOROTOLUENE	1.488	1.658	-11.4	83	0.00
77		4-ETHYLTOLUENE	1.963	2.095	-6.7	76	0.01
78		1,3,5-TRIMETHYLBENZENE	1.791	1.841	-2.8	76	0.00
79		1,2,4-TRIMETHYLBENZENE	1.663	1.757	-5.7	76	0.00
80		m-DICHLOROBENZENE	0.974	1.018	-4.5	75	0.00
81		BENZYL CHLORIDE	1.259	1.578	-25.3	81	0.00
82		p-DICHLOROBENZENE	0.895	0.937	-4.7	74	0.00
83		o-DICHLOROBENZENE	0.796	0.845	-6.2	74	0.00
84		HEXACHLOROBUTADIENE	0.387	0.431	-11.4	76	0.00
85		1,2,4-TRICHLOROBENZENE	0.254	0.338	-33.1#	72	0.00
86		NAPHTHALENE	0.637	0.000	100.0#	0#	-20.42#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W19471.D MW830.M Wed Dec 31 10:36:25 2008 MSW

5.9

Continuing Calibration Summary

Job Number: JA8427 **Sample:** VW834-CC830
Account: MWKSW MWH **Lab FileID:** W19563.D
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\W19563.D Vial: 2
Acq On : 6 Jan 2009 11:01 am Operator: YOUMINH
Sample : CC830-10 Inst : MSW
Misc : MS49009,VW834,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	66	-0.02
2		FREON 115	0.000	0.000	0.0	0#	-5.09#
3		FREON 152A	1.164	0.942	19.1	59	-0.02
4		CHLORODIFLUOROMETHANE	0.609	0.732	-20.2	95	-0.02
5		DICHLORODIFLUOROMETHANE	5.783	6.344	-9.7	83	-0.01
6		PROPYLENE	1.735	1.251	27.9	59	-0.02
7		FREON 114	5.525	5.263	4.7	69	-0.01
8		CHLOROMETHANE	0.567	0.400	29.5	54	-0.01
9		VINYL CHLORIDE	2.036	1.521	25.3	55	-0.02
10		1,3-BUTADIENE	1.598	1.154	27.8	54	-0.01
11		n-BUTANE	3.560	2.639	25.9	60	-0.01
12		BROMOMETHANE	1.611	1.339	16.9	59	-0.01
13		CHLOROETHANE	1.096	0.832	24.1	56	-0.01
14		FREON 123	2.799	2.520	10.0	66	-0.02
15		TRICHLOROFLUOROMETHANE	6.404	7.627	-19.1	93	-0.01
16		ISOPROPYL ALCOHOL	3.255	2.815	13.5	73	-0.07
17		ACETONE	0.923	0.657	28.8	58	-0.03
18		PENTANE	2.554	2.093	18.1	75	-0.02
19	H	TVHC as EQUIV PENTANE	15.124	14.304	5.4	77	-0.02
20		ETHYL ETHER	1.000	0.809	19.1	61	-0.02
21		1,1-DICHLOROETHYLENE	1.925	1.668	13.4	64	-0.02
22		CARBON DISULFIDE	5.459	4.207	22.9	58	-0.02
23		ETHANOL	0.703	0.507	27.9	58	-0.08
24		BROMOETHENE	1.661	1.451	12.6	62	-0.02
25		METHYLENE CHLORIDE	1.752	1.314	25.0	59	-0.01
26		3-CHLOROPROPENE	0.852	0.655	23.1	56	-0.02
27		FREON 113	3.395	3.054	10.0	64	-0.02
28		TRANS-1,2-DICHLOROETHYLENE	1.730	1.388	19.8	58	-0.02
29		TERTIARY BUTYL ALCOHOL	3.072	3.250	-5.8	80	-0.07
30		METHYL TERTIARY BUTYL ETHER	5.925	5.587	5.7	69	-0.02
31		TETRAHYDROFURAN	2.299	1.769	23.1	58	-0.03
32		HEXANE	3.478	2.764	20.5	59	-0.02
33		VINYL ACETATE	0.417	0.364	12.7	55	-0.02
34		1,1-DICHLOROETHANE	4.039	3.595	11.0	67	-0.02
35		METHYL ETHYL KETONE	0.765	0.621	18.8	53	-0.04
36		cis-1,2-DICHLOROETHYLENE	1.846	1.541	16.5	57	-0.02
37		ETHYL ACETATE	0.460	0.339	26.3	50	-0.04
38		CHLOROFORM	4.463	4.617	-3.5	76	-0.02
39		2,4-DIMETHYLPENTANE	4.083	3.312	18.9	58	-0.02
40		1,1,1-TRICHLOROETHANE	5.120	5.905	-15.3	86	-0.02
41		CARBON TETRACHLORIDE	5.417	6.496	-19.9	89	-0.02
42		1,2-DICHLOROETHANE	3.463	4.011	-15.8	92	-0.02

Continuing Calibration Summary

Job Number: JA8427
Account: MWKSW MWH
Project: El Dorado, Topeka Street (1800 North), El Dorado, KS

Sample: VW834-CC830
Lab FileID: W19563.D

43	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	62	-0.02
44		BENZENE	1.136	0.957	15.8	55	-0.02
45		CYCLOHEXANE	0.515	0.432	16.1	57	-0.02
46		2,3-DIMETHYLPENTANE	0.284	0.232	18.3	55	-0.02
47		TRICHLOROETHYLENE	0.543	0.525	3.3	66	-0.02
48		1,2-DICHLOROPROPANE	0.435	0.336	22.8	53	-0.03
49		BROMODICHLOROMETHANE	0.984	1.046	-6.3	76	-0.03
50		2,2,4-TRIMETHYLPENTANE	2.140	1.888	11.8	60	-0.02
51		1,4-DIOXANE	0.151	0.144	4.6	55	-0.04
52		METHYL METHACRYLATE	0.381	0.316	17.1	53	-0.04
53		HEPTANE	0.915	0.749	18.1	61	-0.02
54	H	TVHC as EQUIV HEPTANE	3.826	3.347	12.5	67	-0.02
55		METHYL ISOBUTYL KETONE	0.878	0.818	6.8	63	-0.04
56		cis-1,3-DICHLOROPROPENE	0.670	0.621	7.3	61	-0.03
57		TOLUENE	0.763	0.657	13.9	54	-0.02
58		trans-1,3-DICHLOROPROPENE	0.726	0.732	-0.8	67	-0.03
59		1,1,2-TRICHLOROETHANE	0.352	0.307	12.8	56	-0.02
60	I	CHLOROBENZENE-D5	1.000	1.000	0.0	62	-0.02
61		2-HEXANONE	0.933	0.884	5.3	63	-0.03
62		TETRACHLOROETHYLENE	0.551	0.540	2.0	61	-0.02
63		DIBROMOCHLOROMETHANE	0.936	1.024	-9.4	70	-0.03
64		1,2-DIBROMOETHANE	0.726	0.698	3.9	60	-0.02
65		OCTANE	1.402	1.200	14.4	60	-0.02
66		CHLOROBENZENE	1.119	1.012	9.6	57	-0.02
67		ETHYLBENZENE	2.068	1.910	7.6	59	-0.02
68		m,p-XYLENE	0.760	0.678	10.8	56	-0.02
69		o-XYLENE	0.729	0.655	10.2	56	-0.02
70		STYRENE	1.035	0.966	6.7	54	-0.02
71		NONANE	1.352	1.184	12.4	60	-0.02
72		BROMOFORM	0.820	0.921	-12.3	68	-0.02
73	S	4-BROMOFLUOROBENZENE	0.731	0.826	-13.0	71	-0.01
74		1,1,2,2-TETRACHLOROETHANE	0.912	0.799	12.4	54	-0.02
75		ISOPROPYLBENZENE	2.090	2.022	3.3	60	-0.02
76		2-CHLOROTOLUENE	1.488	1.472	1.1	62	-0.02
77		4-ETHYLTOLUENE	1.963	1.939	1.2	59	-0.01
78		1,3,5-TRIMETHYLBENZENE	1.791	1.795	-0.2	62	-0.01
79		1,2,4-TRIMETHYLBENZENE	1.663	1.692	-1.7	62	-0.01
80		m-DICHLOROBENZENE	0.974	0.970	0.4	60	-0.02
81		BENZYL CHLORIDE	1.259	1.456	-15.6	63	-0.02
82		p-DICHLOROBENZENE	0.895	0.895	0.0	59	-0.01
83		o-DICHLOROBENZENE	0.796	0.802	-0.8	59	-0.01
84		HEXACHLOROBUTADIENE	0.387	0.471	-21.7	70	0.00
85		1,2,4-TRICHLOROBENZENE	0.254	0.335	-31.9#	60	0.00
86		NAPHTHALENE	0.637	0.000	100.0#	0#	-20.42#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W19471.D MW830.M Wed Jan 07 10:04:01 2009 MSW

5.9

GC/MS Volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Wen Wen Chi
01/07/09 22:36

Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19570.D
Acq On : 6 Jan 2009 5:48 pm
Sample : JA8427-1
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:23 2009

Vial: 8
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	103721	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.42	114	516144	10.00	PPBV	-0.01
60) CHLOROBENZENE-D5	14.67	117	425240	10.00	PPBV	-0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.30	95	156904	5.05	PPBV	-0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 101.00%			
Target Compounds						Qvalue
17) ACETONE	6.19	58	26649	2.78	PPBV	# 88
57) TOLUENE	12.87	92	19066	0.48	PPBV	96
86) NAPHTHALENE	20.41	128	9184m	0.34	PPBV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19570.D MW830.M Wed Jan 07 10:00:35 2009 MSW

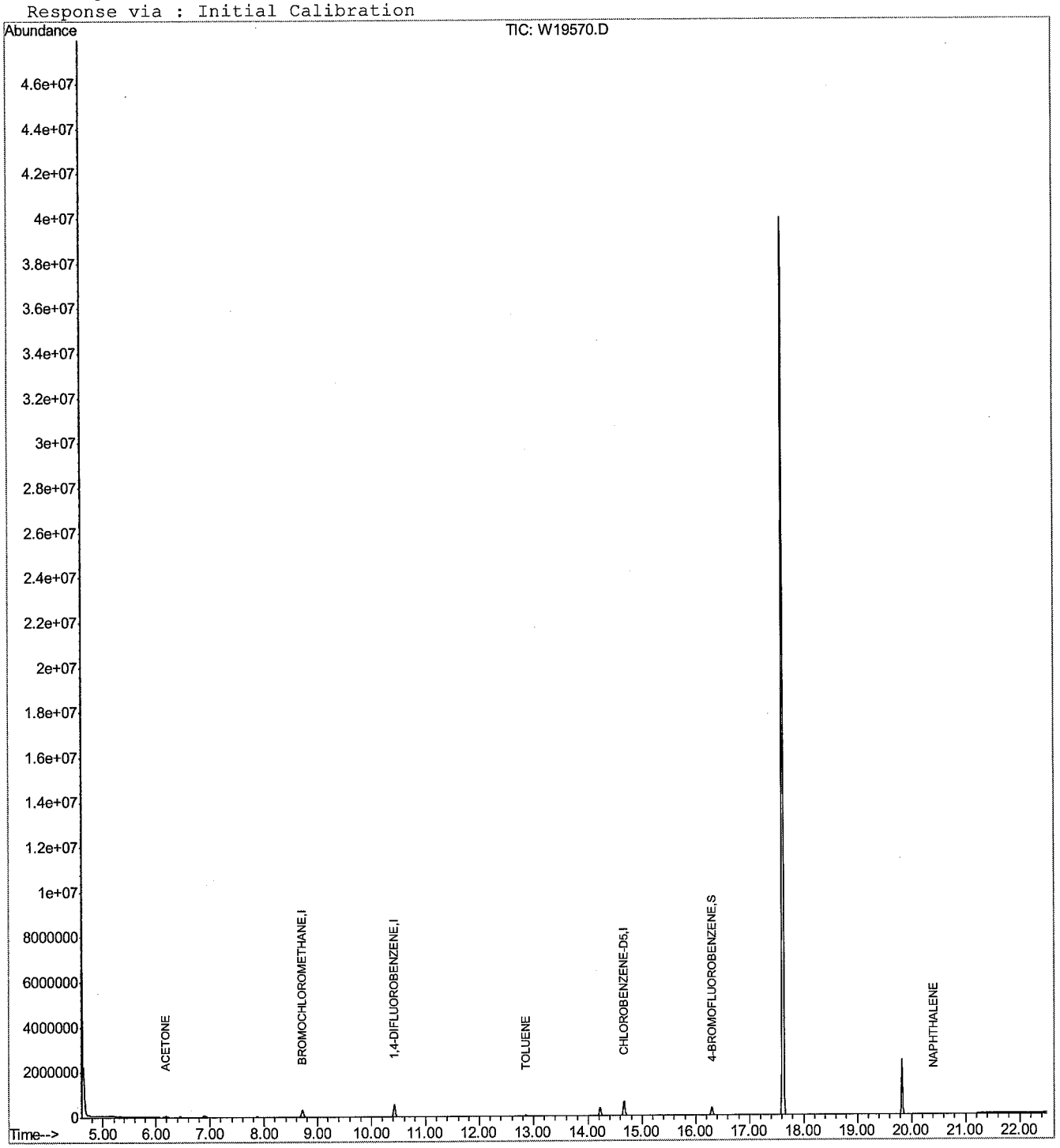
6.1.1
6

Quantitation Report (QT/LSC Reviewed)

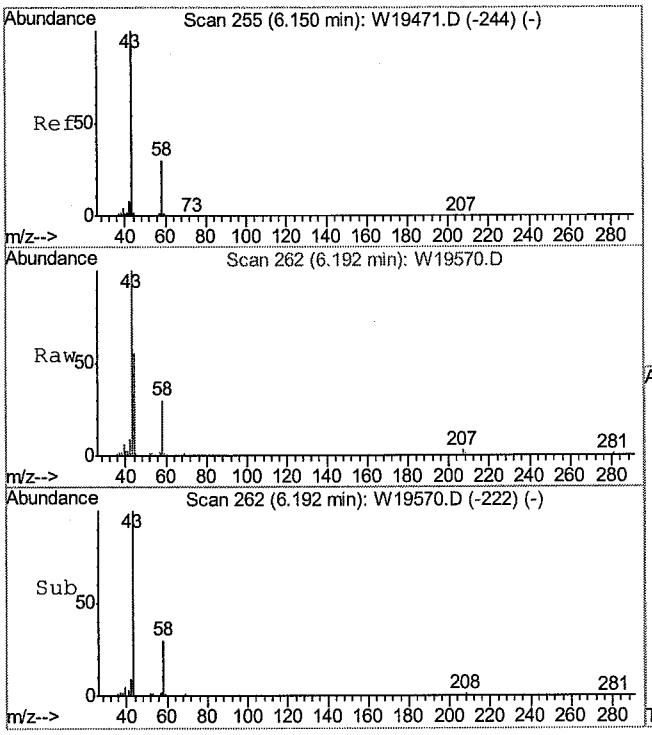
Data File : C:\MSDCHEM\1\DATA\W19570.D
Acq On : 6 Jan 2009 5:48 pm
Sample : JA8427-1
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:43 2009

Vial: 8
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



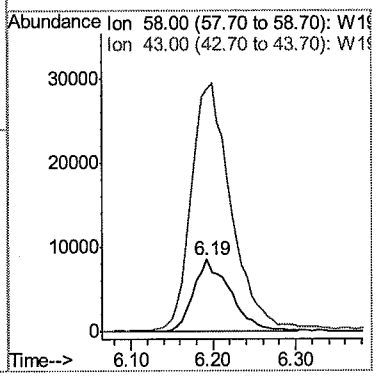
ACCUTEST Laboratories JA8427

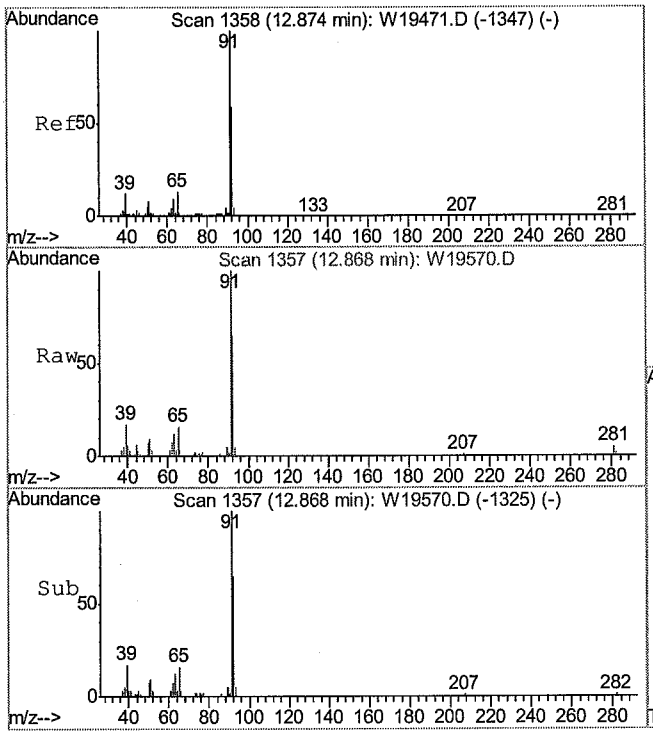


#17
ACETONE
Concen: 2.78 PPBV
RT: 6.19 min Scan# 262
Delta R.T. 0.04 min
Lab File: W19570.D
Acq: 6 Jan 2009 5:48 pm

Tgt Ion: 58 Resp: 26649

Ion	Ratio	Lower	Upper
58	100		
43	364.2	317.9	357.9#

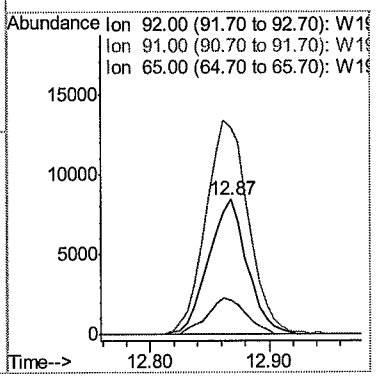




#57
TOLUENE
Concen: 0.48 PPBV
RT: 12.87 min Scan# 1357
Delta R.T. -0.01 min
Lab File: W19570.D
Acq: 6 Jan 2009 5:48 pm

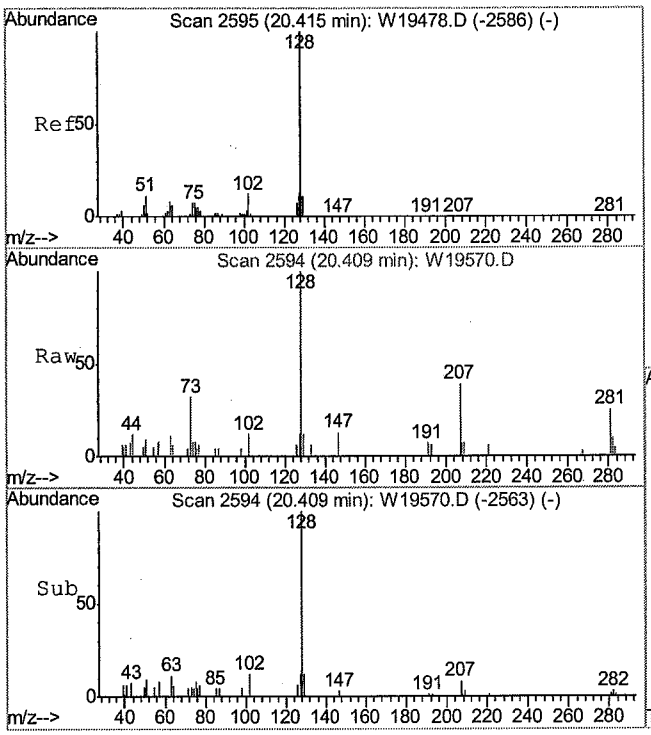
Tgt Ion: 92 Resp: 19066

Ion	Ratio	Lower	Upper
92	100		
91	174.4	150.3	190.3
65	27.0	2.8	42.8



6.1.1

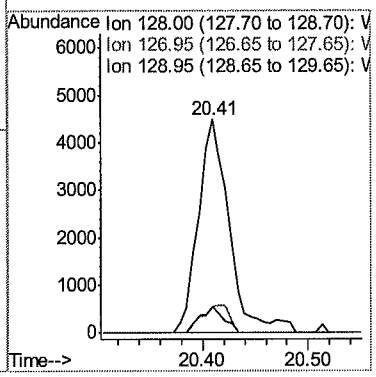
6



#86
NAPHTHALENE
Concen: 0.34 PPBV m
RT: 20.41 min Scan# 2594
Delta R.T. -0.01 min
Lab File: W19570.D
Acq: 6 Jan 2009 5:48 pm

Tgt Ion:128 Resp: 9184

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	32.5
129	0.0	0.0	30.5



6.1.1

6

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\W19570.D
Acq On : 6 Jan 2009 5:48 pm
Sample : JA8427-1
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 8
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Smoothing : OFF
Sampling : 1
Start Thrs: 0.001
Stop Thrs : 0

Filtering: 5
Min Area: 0.5 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

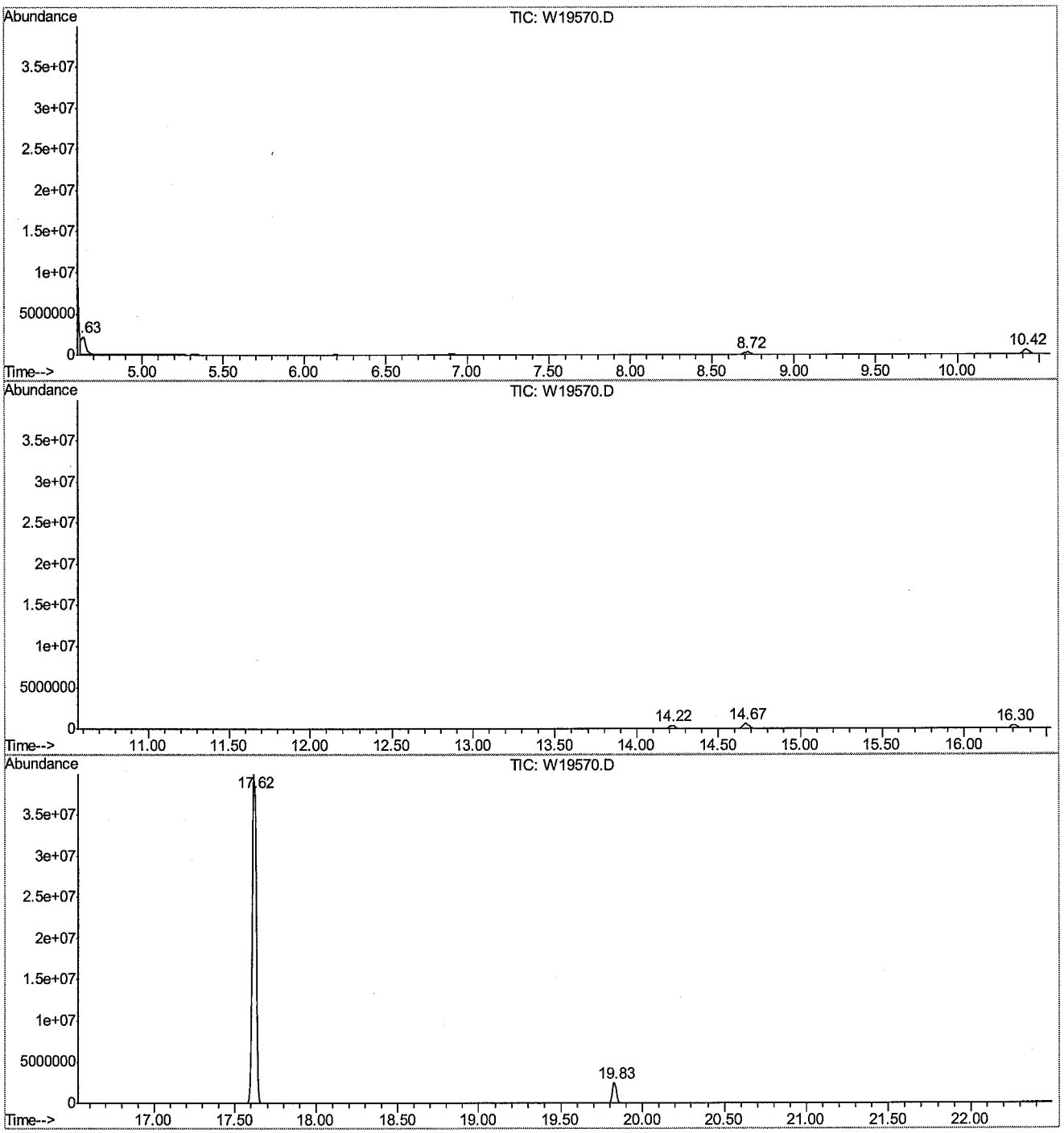
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.632	4	6	38	rVB	2161997	4298020	6.75%	5.554%
2	8.716	665	676	696	rBV2	323919	921319	1.45%	1.191%
3	10.417	945	955	973	rBV	550294	1391418	2.18%	1.798%
4	14.215	1569	1578	1596	rBV	370380	790133	1.24%	1.021%
5	14.666	1640	1652	1664	rBV	645988	1554591	2.44%	2.009%
6	16.300	1911	1920	1943	rBV	346638	818941	1.29%	1.058%
7	17.617	2127	2136	2147	rBV	39975622	63701535	100.00%	82.313%
8	19.830	2491	2499	2510	rBV2	2443185	3913023	6.14%	5.056%

Sum of corrected areas: 77388980

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\W19570.D
Operator : YOUMINH
Acquired : 6 Jan 2009 5:48 pm using AcqMethod TO15W
Instrument : MSW
Sample Name: JA8427-1
Misc Info : MS74291,VW834,50,,,,1
Vial Number: 8
Quant File :MW830.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19570.D Vial: 8
Acq On : 6 Jan 2009 5:48 pm Operator: YOUMINH
Sample : JA8427-1 Inst : MSW
Misc : MS74291,VW834,50,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

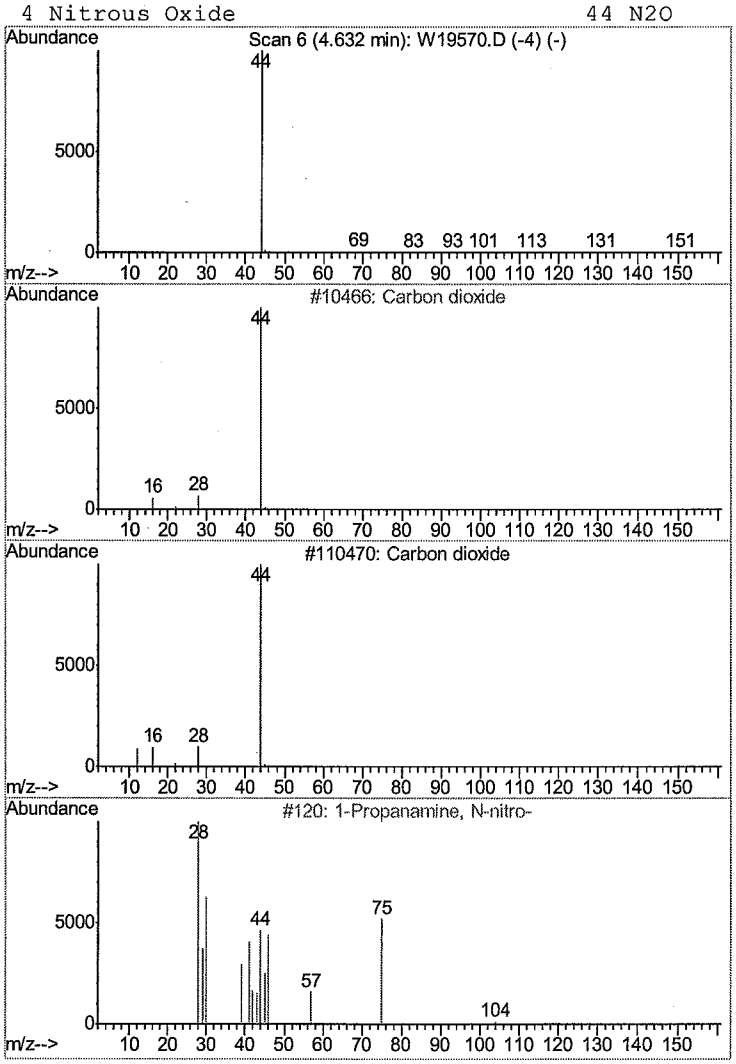
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

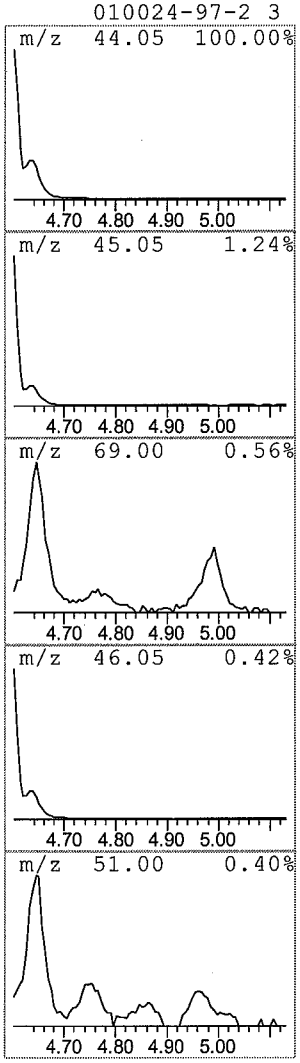
****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.63	46.65 PPBV	4298020	BROMOCHLOROMETHANE	8.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	1-Propanamine, N-nitro-	104	C3H8N2O2	000627-07-6	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19570.D Vial: 8
Acq On : 6 Jan 2009 5:48 pm Operator: YOUMINH
Sample : JA8427-1 Inst : MSW
Misc : MS74291,VW834,50,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

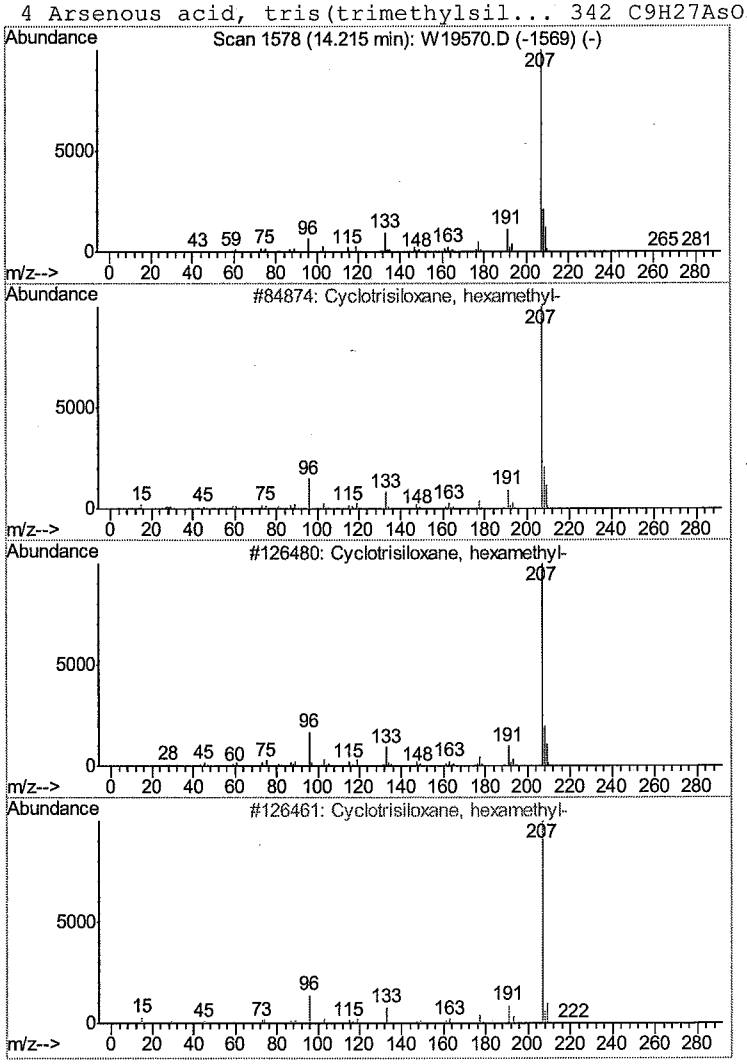
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

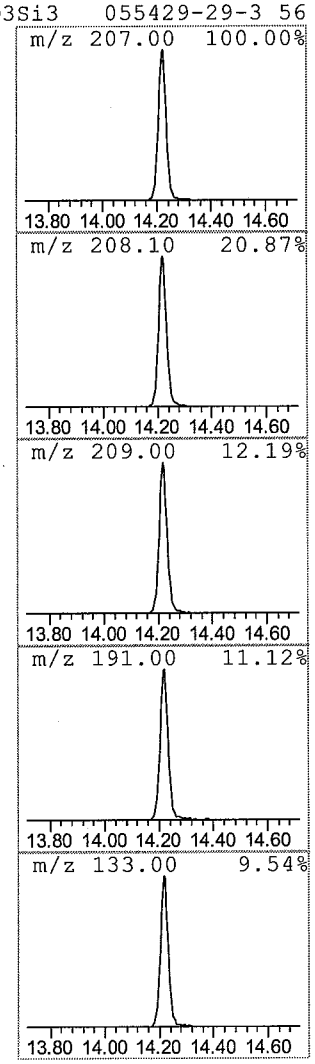
****

Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	5.08 PPBV	790133	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	91
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	91
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	72
4	Arsenous acid, tris(trimethylsil...	342	C9H27AsO3Si3	055429-29-3	56





6.1.2 6

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19570.D Vial: 8
Acq On : 6 Jan 2009 5:48 pm Operator: YOUMINH
Sample : JA8427-1 Inst : MSW
Misc : MS74291,VW834,50,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

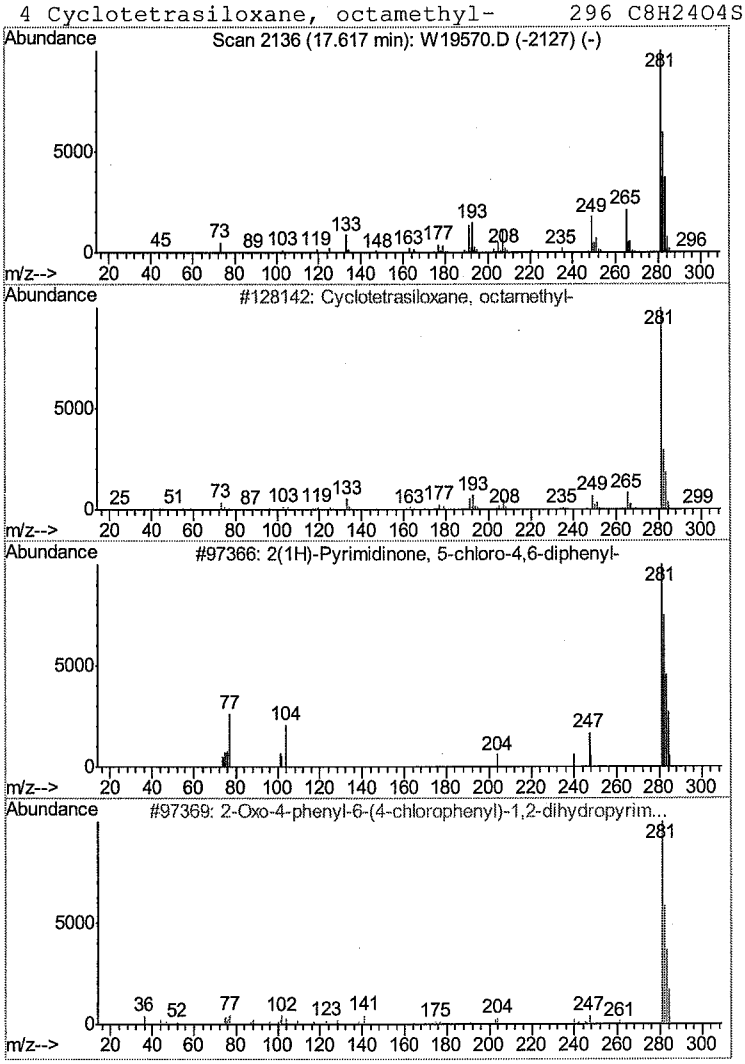
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

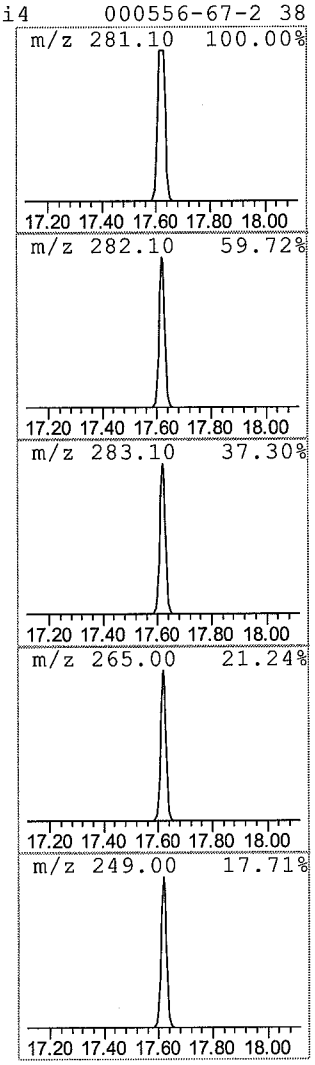
****

Peak Number 3 Cyclotetrasiloxane, octamet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.62	409.76 PPBV	63701500	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	49
2	2(1H)-Pyrimidinone, 5-chloro-4,6...	282	C16H11ClN2O	028567-83-1	42
3	2-Oxo-4-phenyl-6-(4-chlorophenyl...	282	C16H11ClN2O	024030-13-5	42
4	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	38





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19570.D Vial: 8
Acq On : 6 Jan 2009 5:48 pm Operator: YOUMINH
Sample : JA8427-1 Inst : MSW
Misc : MS74291,VW834,50,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

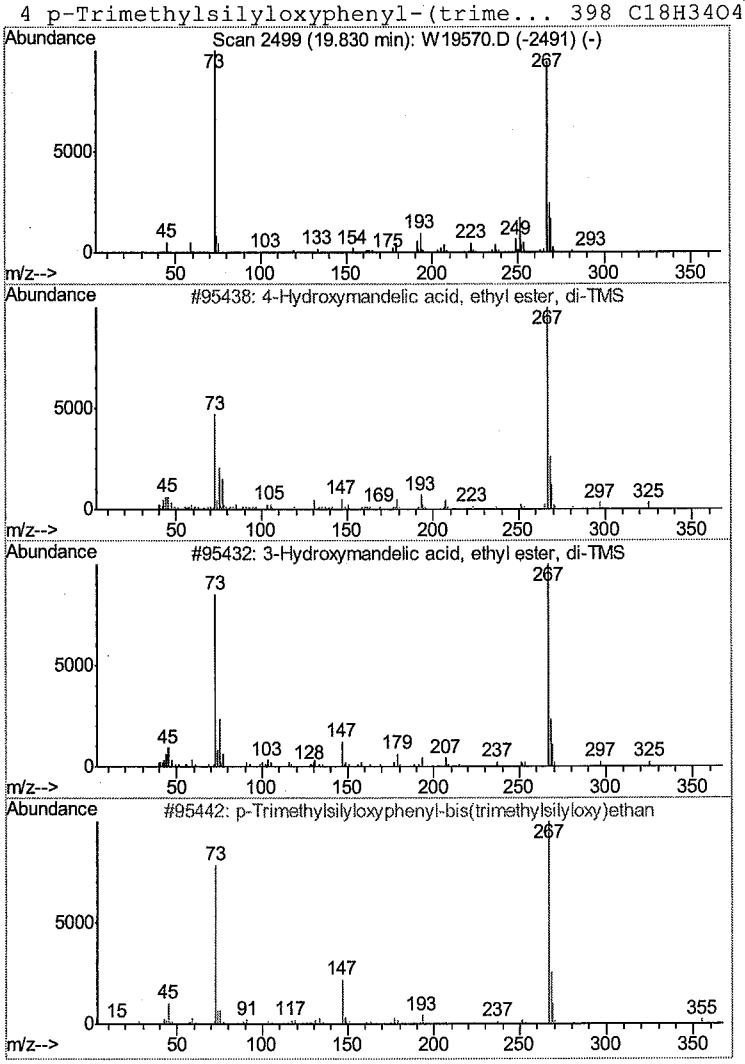
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

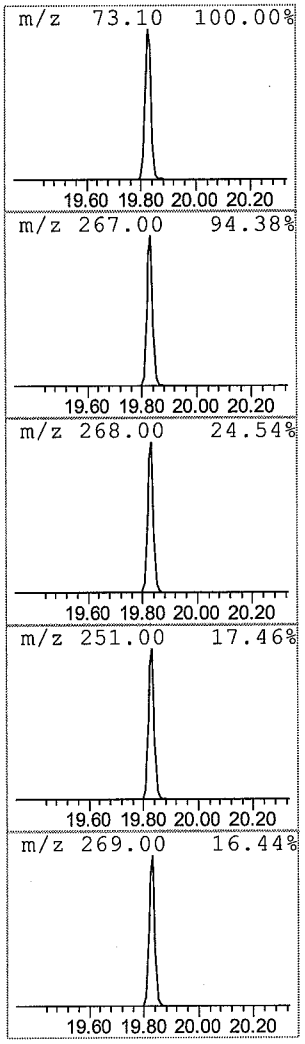
****

Peak Number 4 4-Hydroxymandelic acid, eth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	25.17 PPBV	3913020	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-53-3	72
2	3-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-9	72
3	p-Trimethylsilyloxyphenyl-bis(tr...	370	C17H34O3Si3	1000079-08-1	64
4	p-Trimethylsilyloxyphenyl-(trime...	398	C18H34O4Si3	1000079-05-1	56





6.1.2 9

Tentatively Identified Compound (LSC) summary

Operator ID: YOUMINH Date Acquired: 6 Jan 2009 5:48 pm
Data File: C:\MSDCHEM\1\DATA\W19570.D
Name: JA8427-1
Misc: MS74291,VW834,50,,,,1
Method: C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title: TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Carbon dioxide	4.63	46.7	PPBV	4298020	1	8.72	921319	10.0
Cyclotrisiloxane,...	14.22	5.1	PPBV	790133	3	14.67	1554590	10.0
Cyclotetrasiloxan...	17.62	409.8	PPBV	63701500	3	14.67	1554590	10.0
4-Hydroxymandelic...	19.83	25.2	PPBV	3913020	3	14.67	1554590	10.0

6.1.2

6

Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:27 2009

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	101080	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.42	114	502092	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.67	117	406224	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.31	95	147712	4.97	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 99.40%			
Target Compounds						Qvalue
17) ACETONE	6.22	58	17273	1.85	PPBV #	79

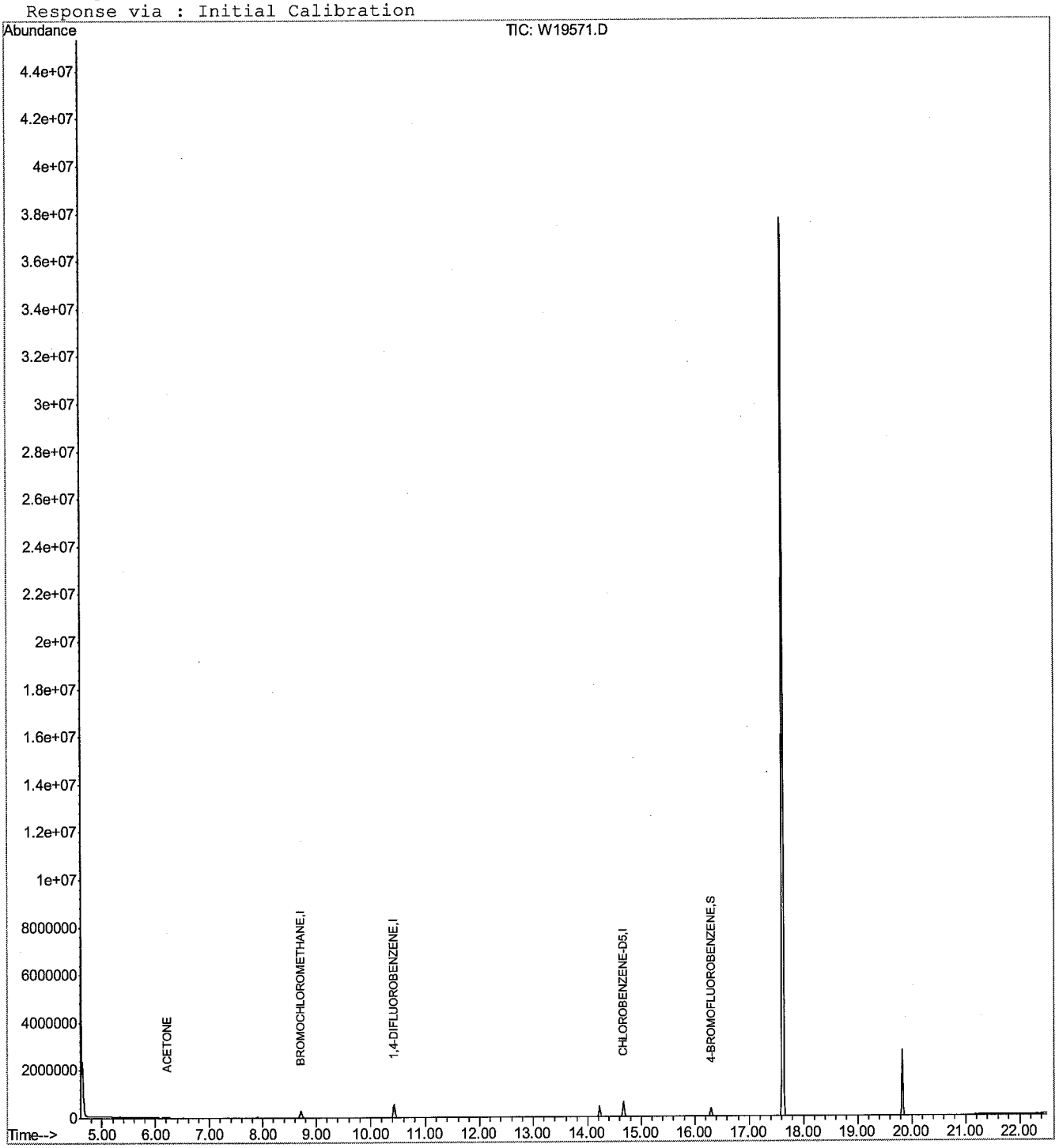
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19571.D MW830.M Wed Jan 07 10:00:39 2009 MSW

Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:44 2009

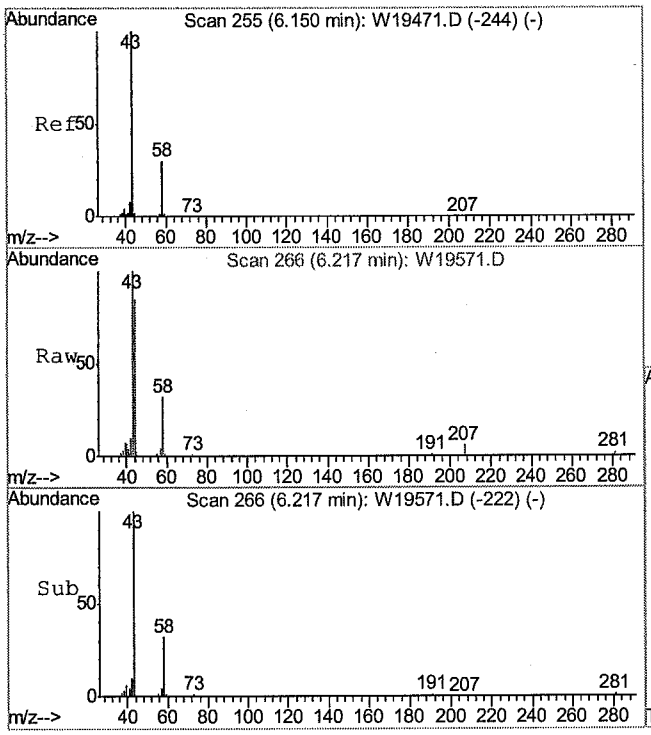
Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



6.1.3 6

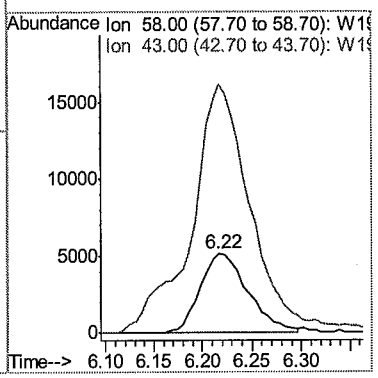
ACCUTEST Laboratories JA8427



#17
ACETONE
Concen: 1.85 PPBV
RT: 6.22 min Scan# 266
Delta R.T. 0.07 min
Lab File: W19571.D
Acq: 6 Jan 2009 6:29 pm

Tgt Ion: 58 Resp: 17273

Ion	Ratio	Lower	Upper
58	100		
43	383.0	317.9	357.9#



6.1.3

6

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Smoothing : OFF
Sampling : 1
Start Thrs: 0.001
Stop Thrs : 0

Filtering: 5
Min Area: 0.5 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

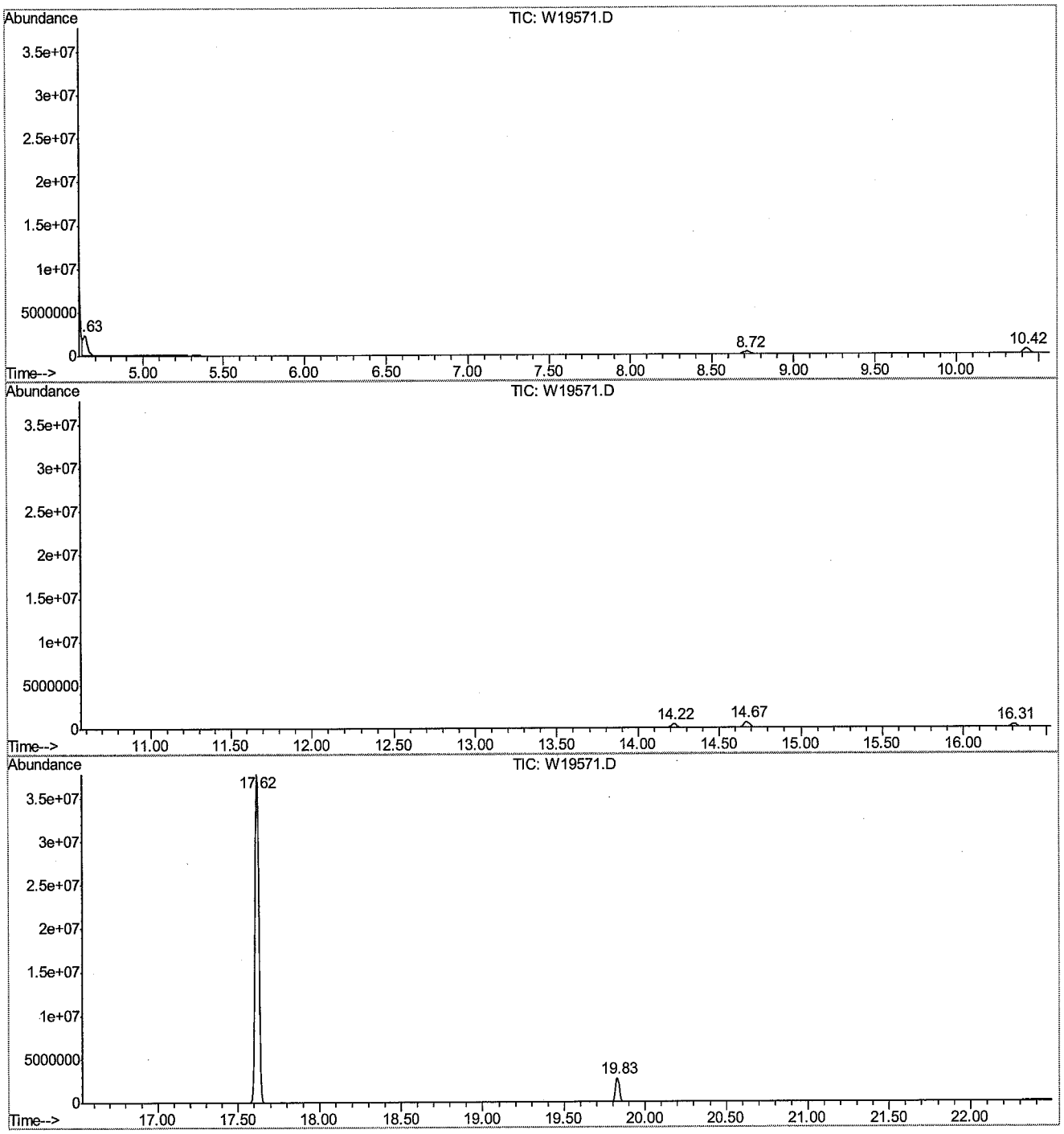
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.632	4	6	31	rVB	2302998	4266413	7.16%	5.802%
2	8.716	664	676	696	rBV	290487	832629	1.40%	1.132%
3	10.423	941	956	972	rBV	544800	1382292	2.32%	1.880%
4	14.221	1569	1579	1593	rBV	437635	915110	1.54%	1.244%
5	14.672	1642	1653	1668	rBV	627083	1513117	2.54%	2.058%
6	16.306	1910	1921	1938	rBV	330763	765064	1.28%	1.040%
7	17.617	2125	2136	2147	rBV2	37779073	59603333	100.00%	81.053%
8	19.830	2491	2499	2515	rBV2	2741849	4258695	7.15%	5.791%

Sum of corrected areas: 73536653

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\W19571.D
Operator : YOUMINH
Acquired : 6 Jan 2009 6:29 pm using AcqMethod TO15W
Instrument : MSW
Sample Name: JA8427-2
Misc Info : MS74291,VW834,50,,,,1
Vial Number: 9
Quant File :MW830.RES (RTE Integrator)



6.1.4

6

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

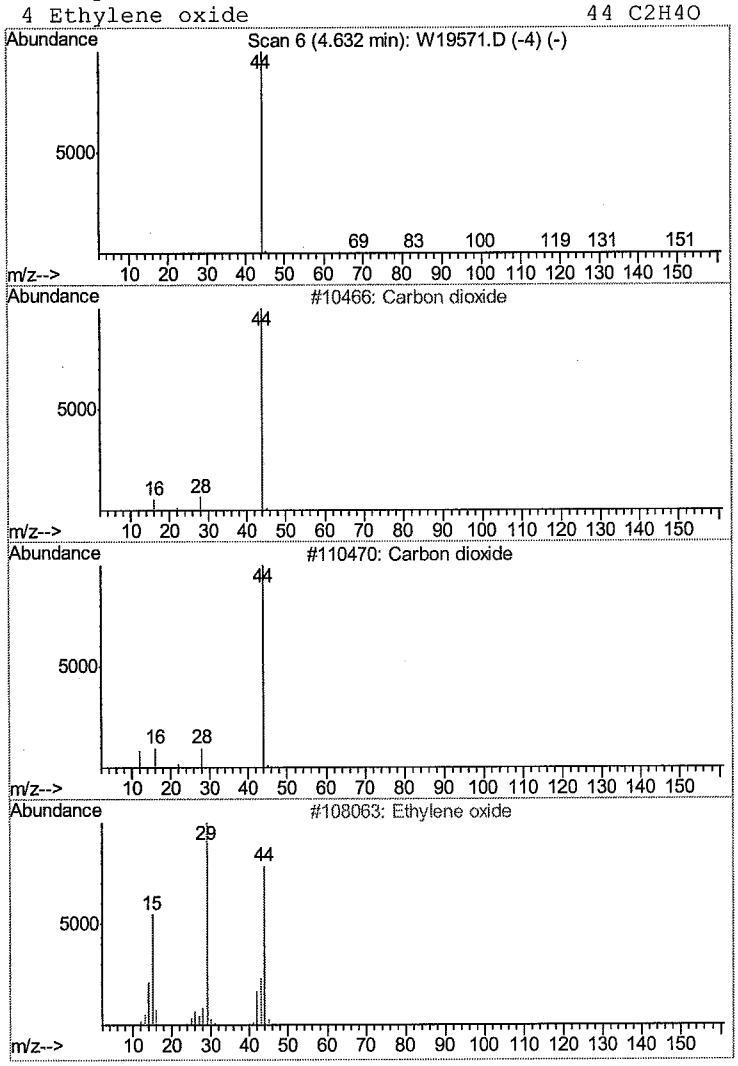
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

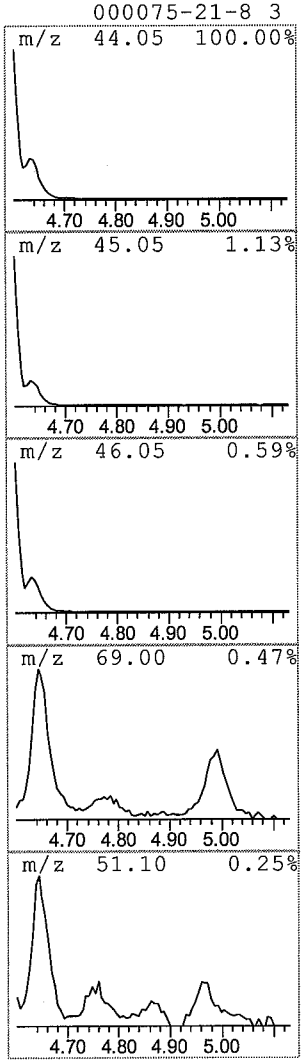
****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.63	51.24 PPBV	4266410	BROMOCHLOROMETHANE	8.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3





W19571.D MW830.M Wed Jan 07 09:59:17 2009 MSW

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

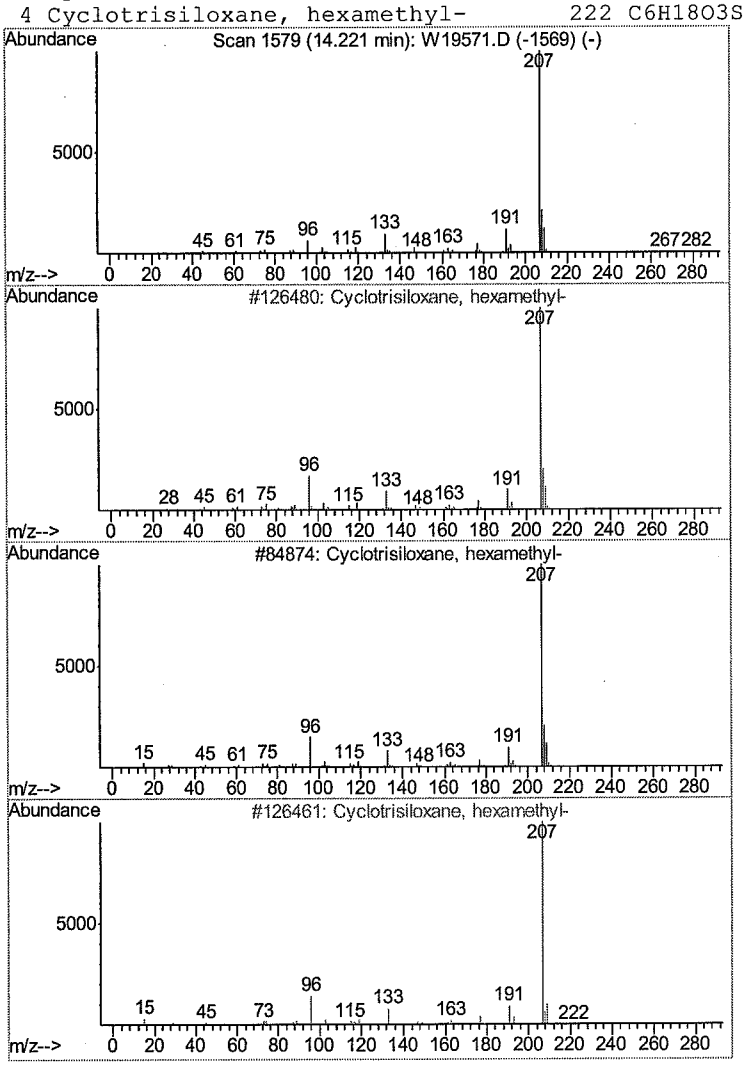
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

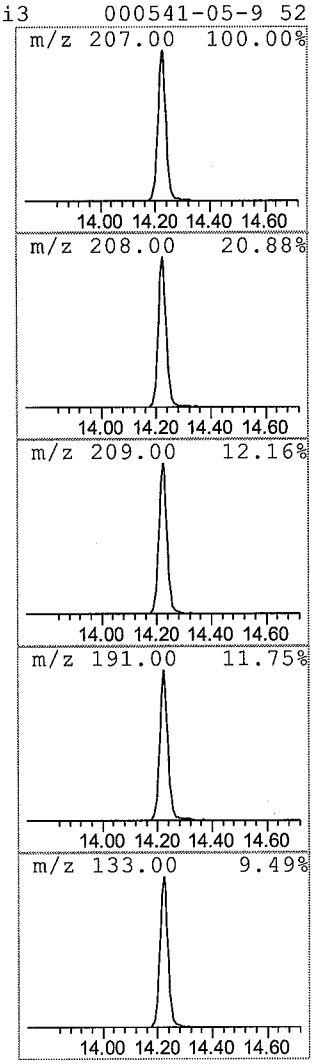
****

Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	6.05 PPBV	915110	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	91
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	91
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	72
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	52





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

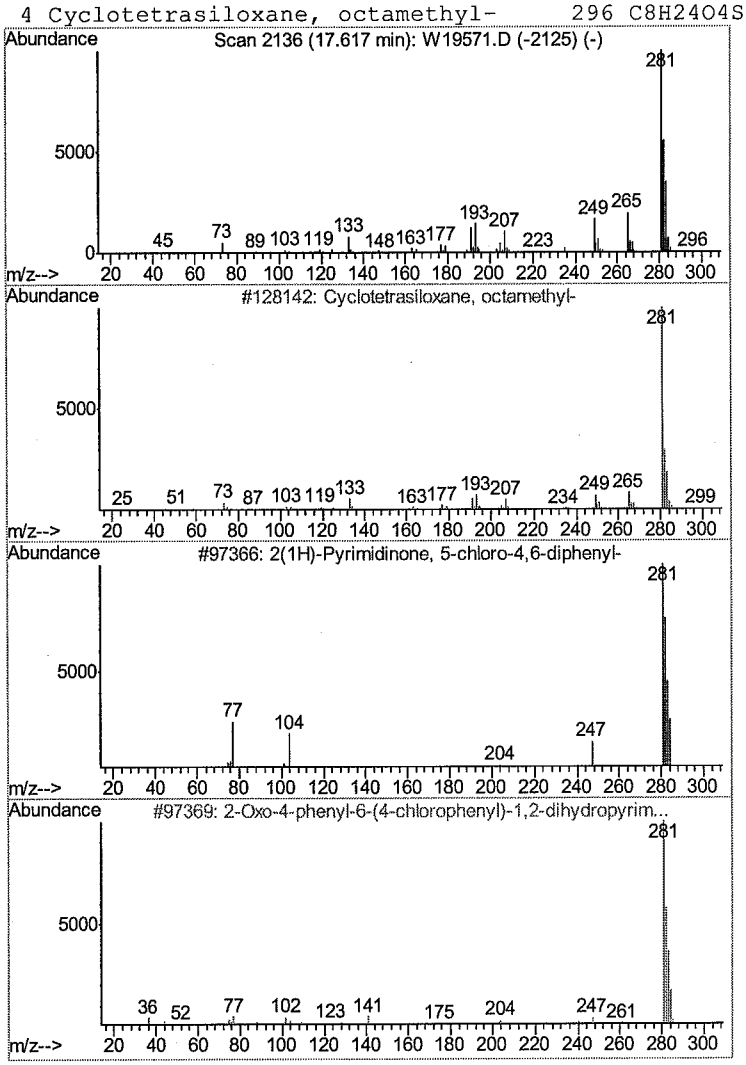
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

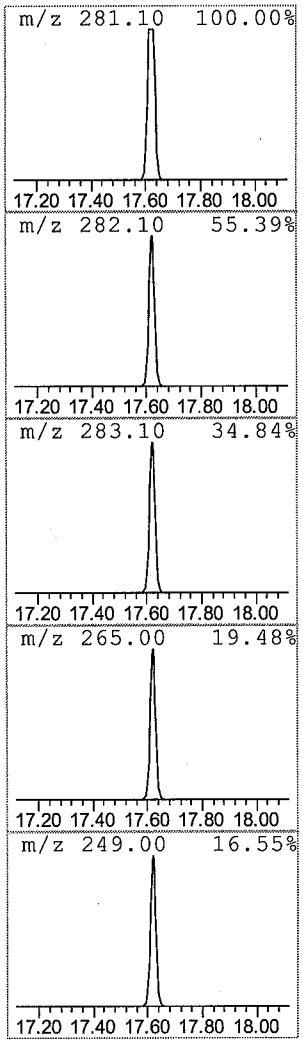
****

Peak Number 3 Cyclotetrasiloxane, octamet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.62	393.91 PPBV	59603300	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	45
2	2(1H)-Pyrimidinone, 5-chloro-4,6...	282	C16H11ClN2O	028567-83-1	42
3	2-Oxo-4-phenyl-6-(4-chlorophenyl...	282	C16H11ClN2O	024030-13-5	42
4	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	41





6.1.4 6

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\W19571.D
Acq On : 6 Jan 2009 6:29 pm
Sample : JA8427-2
Misc : MS74291,VW834,50,,,,1
MS Integration Params: LSCINT.P

Vial: 9
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

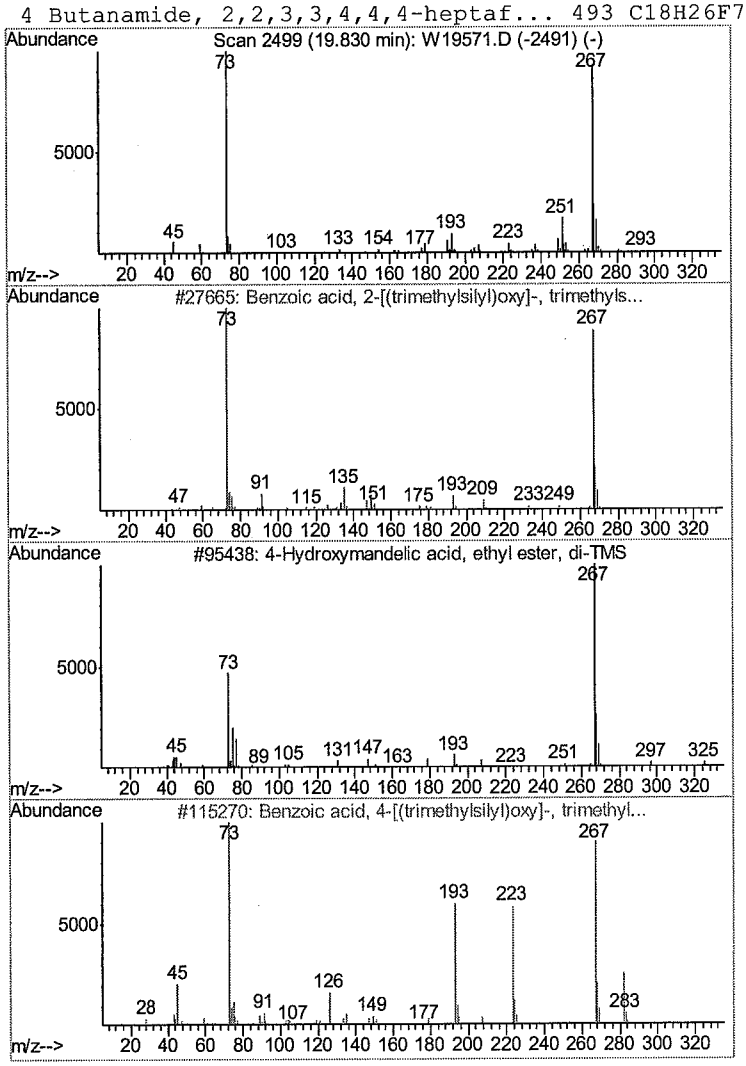
Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library : C:\DATABASE\NIST98.L

****

Peak Number 4 Benzoic acid, 2-[(trimethyl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	28.15 PPBV	4258700	CHLOROBENZENE-D5	14.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	83
2	4-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-53-3	56
3	Benzoic acid, 4-[(trimethylsilyl...	282	C13H22O3Si2	002078-13-9	50
4	Butanamide, 2,2,3,3,4,4,4-heptaf...	493	C18H26F7NO3Si2	055471-01-7	50



Tentatively Identified Compound (LSC) summary

Operator ID: YOUMINH Date Acquired: 6 Jan 2009 6:29 pm
Data File: C:\MSDCHEM\1\DATA\W19571.D
Name: JA8427-2
Misc: MS74291,VW834,50,,,,1
Method: C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title: TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Carbon dioxide	4.63	51.2	PPBV	4266410	1	8.72	832629	10.0
Cyclotrisiloxane,...	14.22	6.0	PPBV	915110	3	14.67	1513120	10.0
Cyclotetrasiloxan...	17.62	393.9	PPBV	59603300	3	14.67	1513120	10.0
Benzoic acid, 2-[...	19.83	28.1	PPBV	4258700	3	14.67	1513120	10.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19567.D
Acq On : 6 Jan 2009 3:02 pm
Sample : MB
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:11 2009

Vial: 5
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.69	128	94829	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.40	114	475923	10.00	PPBV	-0.02
60) CHLOROBENZENE-D5	14.66	117	377199	10.00	PPBV	-0.02

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.29	95	139671	5.06	PPBV	-0.02

Spiked Amount 5.000 Range 78 - 124 Recovery = 101.20%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19567.D MW830.M Wed Jan 07 10:05:06 2009 MSW

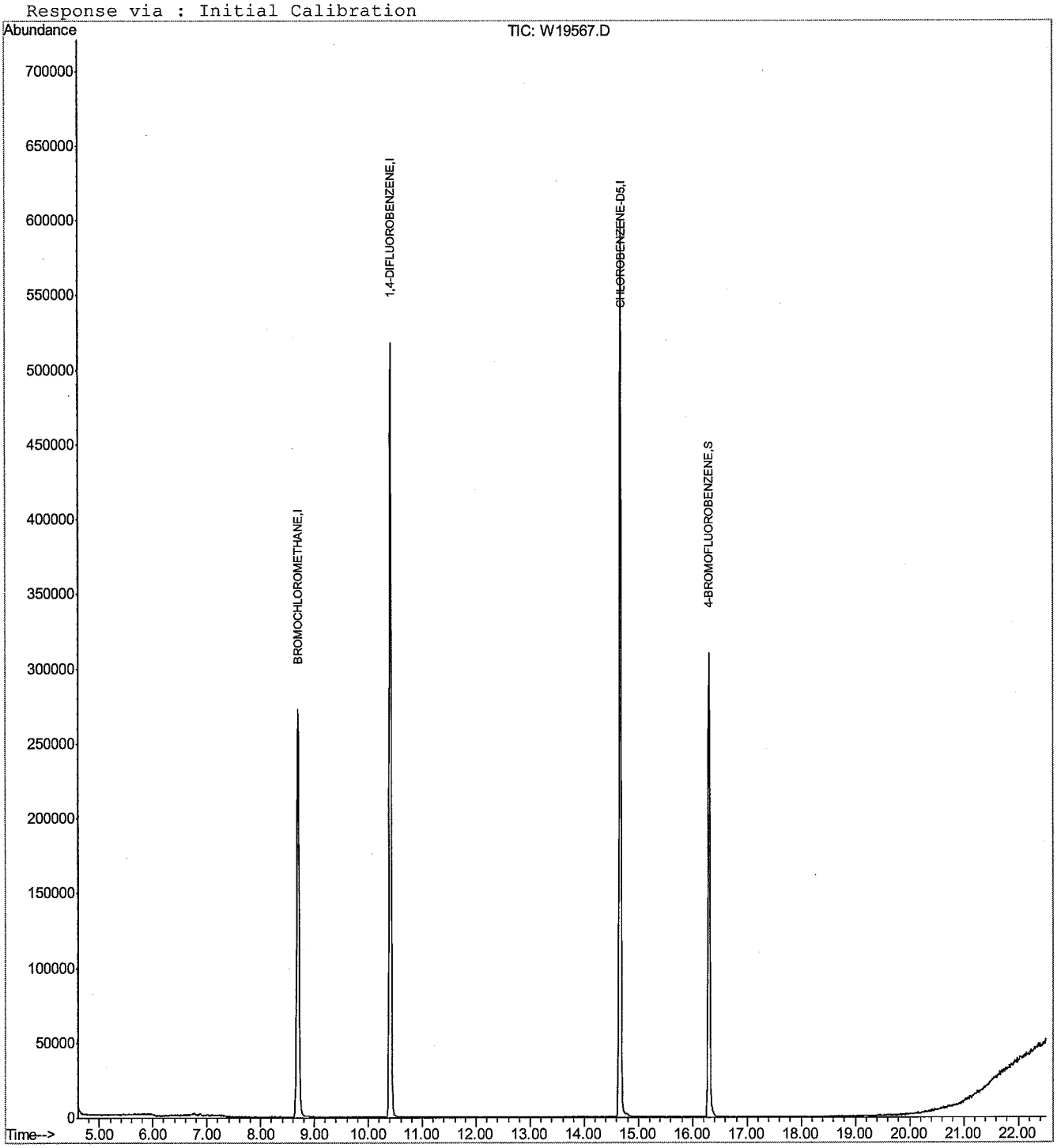
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19567.D
Acq On : 6 Jan 2009 3:02 pm
Sample : MB
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:40 2009

Vial: 5
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



6.2.1

6

ACCUTEST Laboratories JA8427

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\W19567.D Vial: 5
Acq On : 6 Jan 2009 3:02 pm Operator: YOUMINH
Sample : MB Inst : MSW
Misc : MS49009,VW834,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.5 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.692	660	672	689	rBV	272685	784621	54.86%	18.423%
2	10.405	942	953	967	rBV	517791	1323536	92.53%	31.076%
3	14.660	1641	1651	1663	rBV	600424	1430316	100.00%	33.583%
4	16.294	1910	1919	1942	rBV	309923	720549	50.38%	16.918%

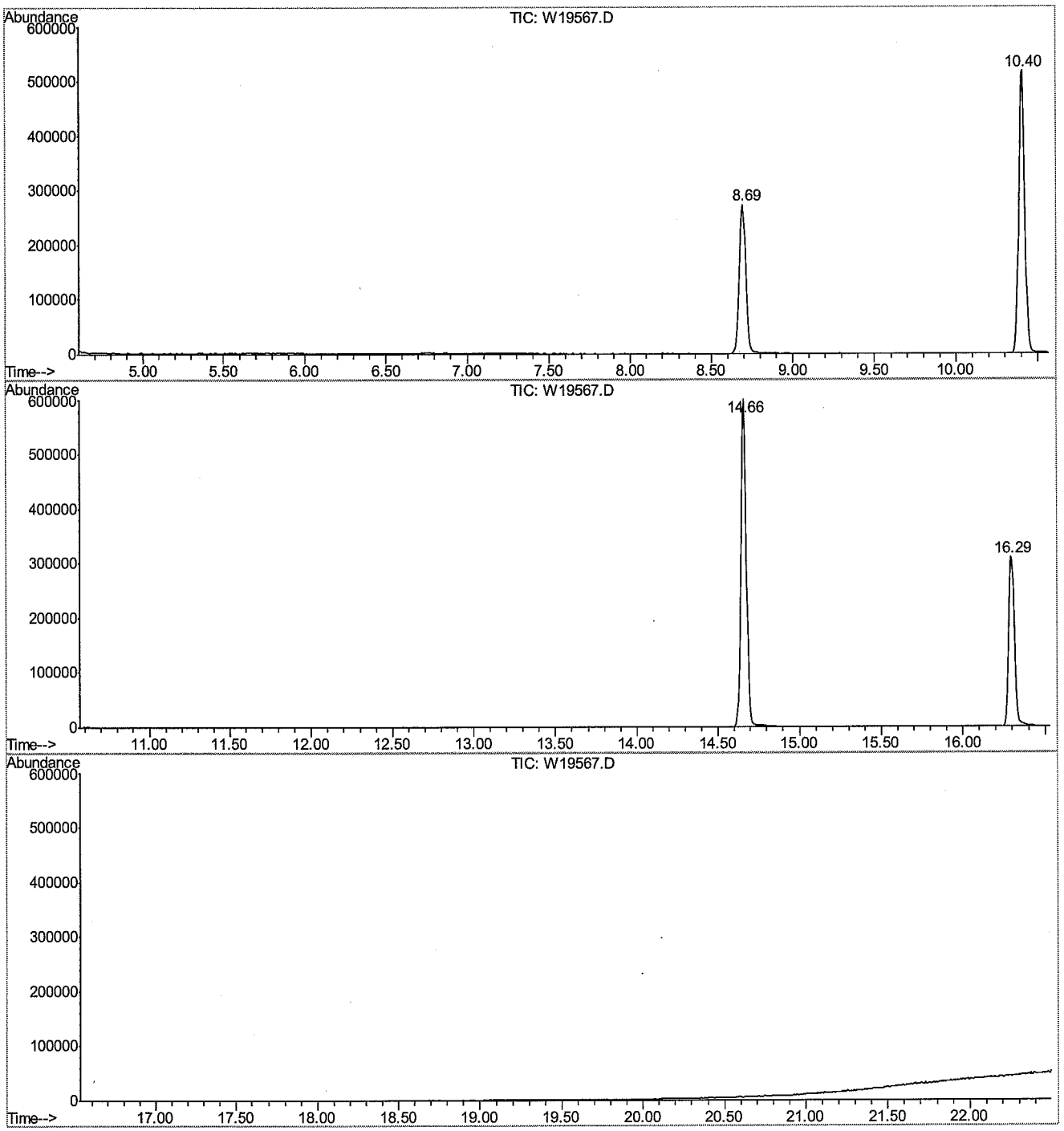
Sum of corrected areas: 4259022

6.2.2

6

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\W19567.D
Operator : YOUMINH
Acquired : 6 Jan 2009 3:02 pm using AcqMethod TO15W
Instrument : MSW
Sample Name: MB
Misc Info : MS49009,VW834,,,,,1
Vial Number: 5
Quant File :MW830.RES (RTE Integrator)



6.2.2
6

ACCUTEST Laboratories
JA8427

Tentatively Identified Compound (LSC) summary

Operator ID: YOUMINH Date Acquired: 6 Jan 2009 3:02 pm
Data File: C:\MSDCHEM\1\DATA\W19567.D
Name: MB
Misc: MS49009,VW834,,,,,1
Method: C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title: TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

6.2.2

6

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19152.D
Acq On : 10 Dec 2008 12:32 pm
Sample : MB
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:46:08 2008

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	160057	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.46	114	796254	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	644587	10.00	PPBV	0.00

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.34	95	193772	4.65	PPBV	0.00

Spiked Amount 5.000 Range 78 - 124 Recovery = 93.00%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19152.D MW816.M Thu Dec 11 10:05:05 2008 MSW

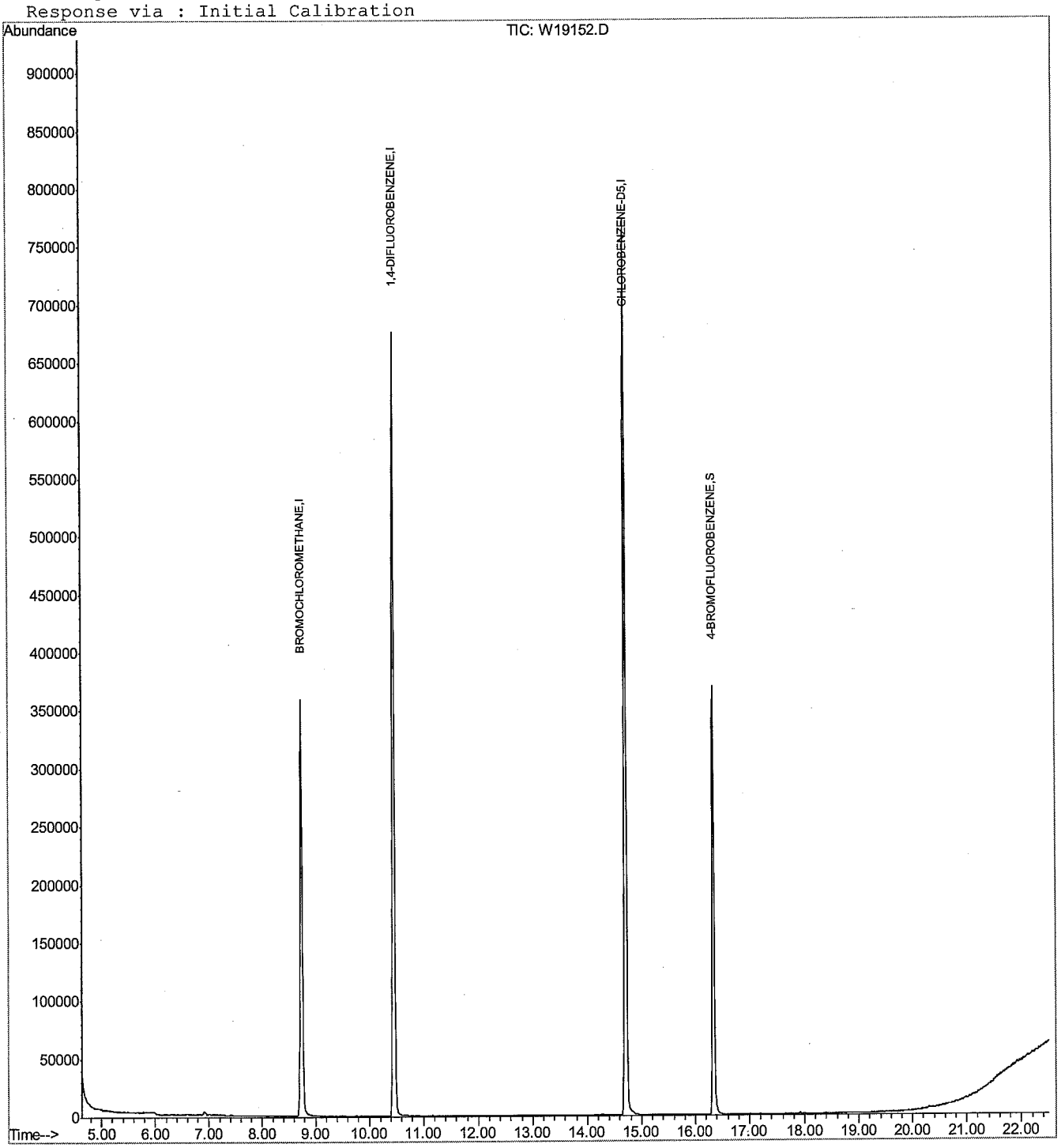
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19152.D
Acq On : 10 Dec 2008 12:32 pm
Sample : MB
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:38 2008

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



W19152.D MW816.M Thu Dec 11 10:05:06 2008 MSW

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19564.D
Acq On : 6 Jan 2009 12:24 pm
Sample : BS
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:50:58 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.69	128	99844	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.40	114	487250	10.00	PPBV	-0.03
60) CHLOROBENZENE-D5	14.66	117	425696	10.00	PPBV	-0.02

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.29	95	179731	5.78	PPBV	-0.02

Spiked Amount 5.000 Range 78 - 124 Recovery = 115.60%

Target Compounds						Qvalue
3) FREON 152A	4.69	65	98227	8.45	PPBV #	67
4) CHLORODIFLUOROMETHANE	4.72	67	78586	12.92	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.81	85	645631	11.18	PPBV	98
6) PROPYLENE	4.75	41	133638	7.71	PPBV	89
7) FREON 114	5.04	85	536480	9.73	PPBV	97
8) CHLOROMETHANE	4.97	52	41945	7.41	PPBV #	51
9) VINYL CHLORIDE	5.15	62	158041	7.77	PPBV	99
10) 1,3-BUTADIENE	5.26	54	121527	7.62	PPBV #	52
11) n-BUTANE	5.31	43	287111	8.08	PPBV	97
12) BROMOMETHANE	5.50	94	136616	8.49	PPBV	99
13) CHLOROETHANE	5.63	64	86540	7.91	PPBV	91
14) FREON 123	6.02	85	265100	9.49	PPBV #	97
15) TRICHLOROFLUOROMETHANE	6.25	101	760016	11.89	PPBV	100
16) ISOPROPYL ALCOHOL	6.32	45	310745	9.56	PPBV	90
17) ACETONE	6.13	58	74664	8.10	PPBV #	30
18) PENTANE	6.53	42	232472	9.12	PPBV	86
19) TVHC as EQUIV PENTANE	6.53	TIC	1601379m	10.61	PPBV	
20) ETHYL ETHER	6.55	74	87038	8.72	PPBV	89
21) 1,1-DICHLOROETHYLENE	6.78	96	141914	7.39	PPBV #	47
22) CARBON DISULFIDE	7.16	76	412517	7.57	PPBV	80
23) ETHANOL	5.74	45	56481	8.05	PPBV	97
24) BROMOETHENE	5.92	106	153703	9.27	PPBV #	95
25) METHYLENE CHLORIDE	6.86	84	122633	7.01	PPBV	75
26) 3-CHLOROPROPENE	6.96	76	65746	7.73	PPBV #	16
27) FREON 113	7.07	151	283925	8.38	PPBV	90
28) TRANS-1,2-DICHLOROETHYLENE	7.64	96	139762	8.09	PPBV #	78
29) TERTIARY BUTYL ALCOHOL	6.81	59	289583	9.44	PPBV	90
30) METHYL TERTIARY BUTYL ETHE	7.87	73	586144	9.91	PPBV	93
31) TETRAHYDROFURAN	9.18	42	201484	8.78	PPBV	90
32) HEXANE	8.69	57	284900	8.20	PPBV #	76
33) VINYL ACETATE	7.92	86	35864	8.62	PPBV #	1
34) 1,1-DICHLOROETHANE	7.82	63	361707	8.97	PPBV	99
35) METHYL ETHYL KETONE	8.16	72	65225	8.54	PPBV #	42
36) cis-1,2-DICHLOROETHYLENE	8.53	96	150794	8.18	PPBV #	76
37) ETHYL ACETATE	8.70	61	36103	7.87	PPBV #	12
38) CHLOROFORM	8.80	83	453604	10.18	PPBV	94
39) 2,4-DIMETHYLPENTANE	9.47	57	339732	8.33	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.69	97	587178	11.49	PPBV	96
41) CARBON TETRACHLORIDE	10.24	117	639099	11.82	PPBV	100
42) 1,2-DICHLOROETHANE	9.45	62	424360	12.27	PPBV	97
44) BENZENE	10.11	78	465611	8.42	PPBV	95

(#) = qualifier out of range (m) = manual integration
W19564.D MW830.M Wed Jan 07 10:04:26 2009 MSW

6.3.1 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19564.D
Acq On : 6 Jan 2009 12:24 pm
Sample : BS
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:50:58 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.35	84	210408	8.38	PPBV		90
46)	2,3-DIMETHYLPENTANE	10.55	71	113389	8.19	PPBV		82
47)	TRICHLOROETHYLENE	11.07	95	255920	9.67	PPBV		91
48)	1,2-DICHLOROPROPANE	10.86	63	172733	8.15	PPBV	#	76
49)	BROMODICHLOROMETHANE	11.04	83	530803	11.07	PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.08	57	970319	9.30	PPBV		99
51)	1,4-DIOXANE	11.10	88	72959	9.91	PPBV	#	1
52)	METHYL METHACRYLATE	11.23	69	158743	8.54	PPBV	#	65
53)	HEPTANE	11.31	43	395772	8.88	PPBV		89
54)	TVHC as EQUIV HEPTANE	11.31	TIC	1759743m	9.44	PPBV		
55)	METHYL ISOBUTYL KETONE	11.92	43	436923	10.22	PPBV		90
56)	cis-1,3-DICHLOROPROPENE	11.89	75	311576	9.55	PPBV	#	57
57)	TOLUENE	12.85	92	330672	8.89	PPBV		98
58)	trans-1,3-DICHLOROPROPENE	12.39	75	371616	10.50	PPBV	#	77
59)	1,1,2-TRICHLOROETHANE	12.58	83	152149	8.88	PPBV		100
61)	2-HEXANONE	13.11	43	409929	10.32	PPBV		84
62)	TETRACHLOROETHYLENE	14.00	164	223338	9.53	PPBV		95
63)	DIBROMOCHLOROMETHANE	13.29	129	427535	10.73	PPBV		100
64)	1,2-DIBROMOETHANE	13.54	107	291672	9.44	PPBV		99
65)	OCTANE	13.80	43	551083	9.23	PPBV		92
66)	CHLOROBENZENE	14.70	112	419510	8.81	PPBV		91
67)	ETHYLBENZENE	15.09	91	829640	9.42	PPBV		96
68)	m,p-XYLENE	15.28	106	573177	17.73	PPBV	#	83
69)	o-XYLENE	15.79	106	279297	8.99	PPBV	#	84
70)	STYRENE	15.67	104	412107	9.35	PPBV		90
71)	NONANE	16.00	43	573341	9.96	PPBV		93
72)	BROMOFORM	15.39	173	388594	11.13	PPBV		100
74)	1,1,2,2-TETRACHLOROETHANE	15.79	83	349016	8.99	PPBV		99
75)	ISOPROPYLBENZENE	16.43	105	910505	10.24	PPBV		94
76)	2-CHLOROTOLUENE	16.97	91	670786	10.59	PPBV		91
77)	4-ETHYLTOLUENE	17.16	105	850780	10.18	PPBV		97
78)	1,3,5-TRIMETHYLBENZENE	17.25	105	763438	10.02	PPBV		93
79)	1,2,4-TRIMETHYLBENZENE	17.71	105	726644	10.27	PPBV		95
80)	m-DICHLOROBENZENE	17.89	146	409392	9.88	PPBV		97
81)	BENZYL CHLORIDE	17.87	91	651615	12.16	PPBV		94
82)	p-DICHLOROBENZENE	17.96	146	378687	9.94	PPBV		97
83)	o-DICHLOROBENZENE	18.35	146	344657	10.17	PPBV		97
84)	HEXACHLOROBUTADIENE	20.79	225	204785	12.43	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.28	180	146809	13.57	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19564.D MW830.M Wed Jan 07 10:04:26 2009 MSW

6.3.1

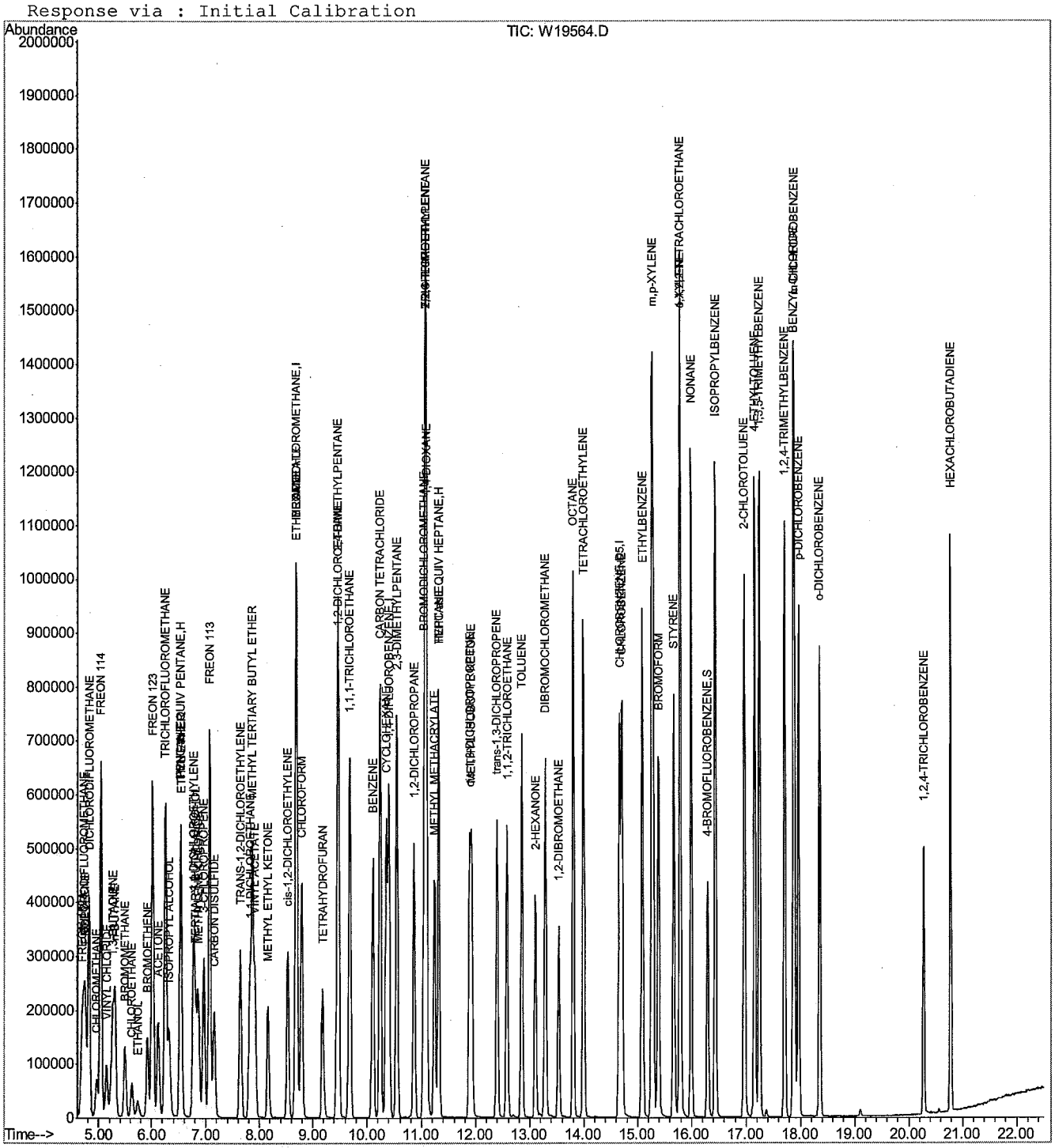
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19564.D
Acq On : 6 Jan 2009 12:24 pm
Sample : BS
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



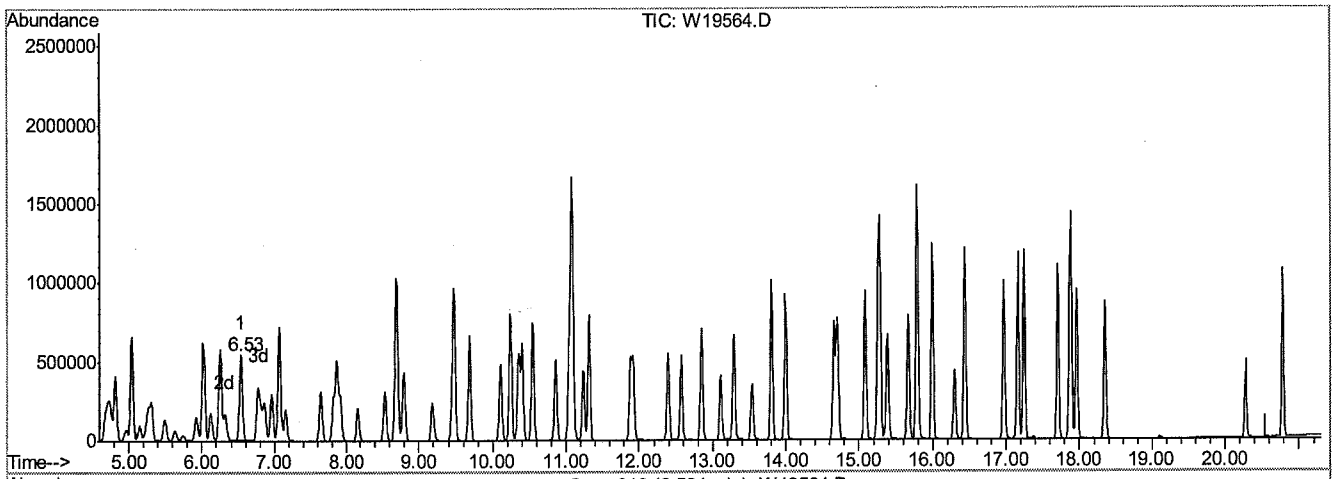
ACCUTEST Laboratories JA8427

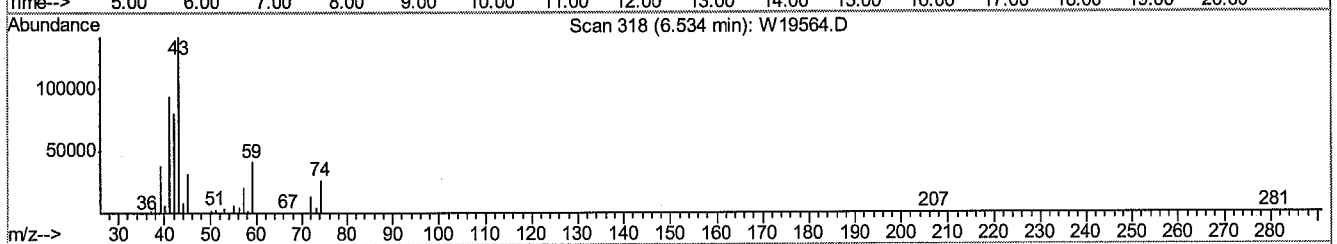
Quantitation Report (Qedit)

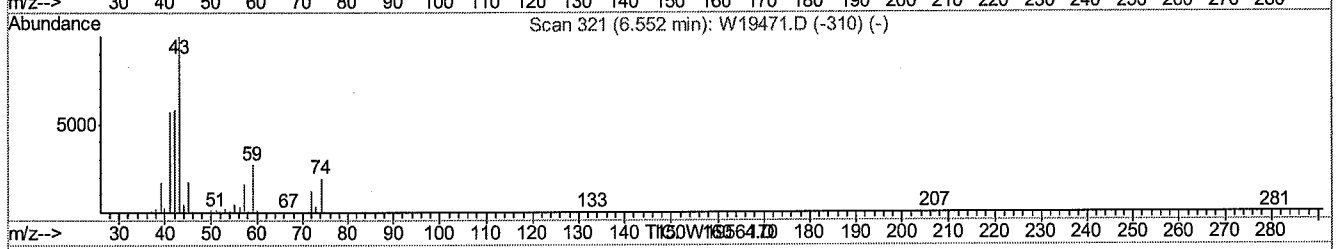
Data File : C:\MSDCHEM\1\DATA\W19564.D
Acq On : 6 Jan 2009 12:24 pm
Sample : BS
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.53min 10.61PPBV m

response 1601379

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

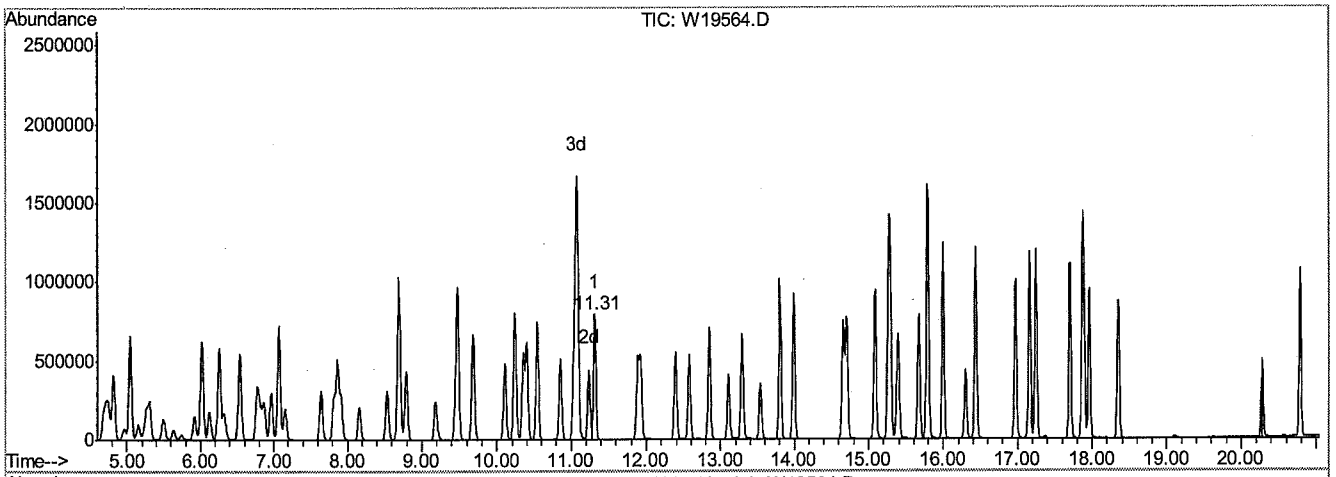
ACCUTEST Laboratories

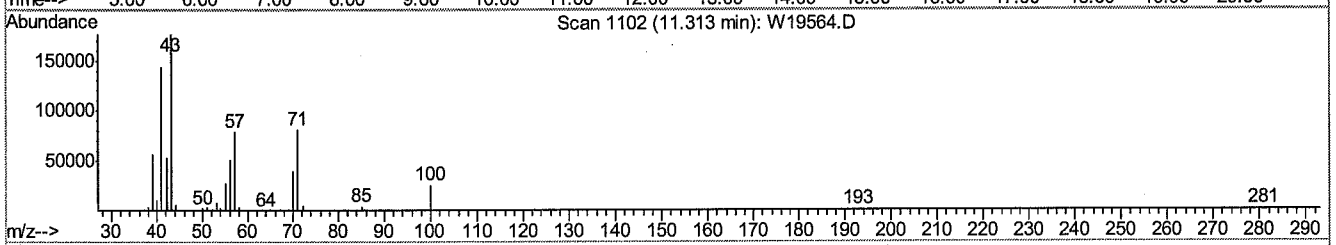
Quantitation Report (Qedit)

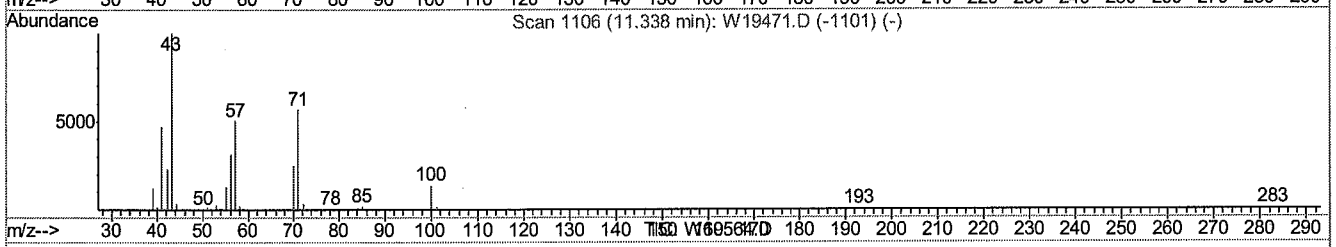
Data File : C:\MSDCHEM\1\DATA\W19564.D
Acq On : 6 Jan 2009 12:24 pm
Sample : BS
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.31min 9.44PPBV m

response 1759743

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19564.D MW830.M Wed Jan 07 10:04:38 2009 MSW

6.3.1.2

6

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19565.D
Acq On : 6 Jan 2009 1:14 pm
Sample : BSD
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:03 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.69	128	95707	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.40	114	467331	10.00	PPBV	-0.03
60) CHLOROBENZENE-D5	14.65	117	408038	10.00	PPBV	-0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.29	95	170847	5.73	PPBV	-0.02
Spiked Amount 5.000	Range 78 - 124		Recovery = 114.60%			
Target Compounds						Qvalue
3) FREON 152A	4.68	65	98044	8.80	PPBV #	59
4) CHLORODIFLUOROMETHANE	4.72	67	83043	14.25	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.81	85	660541	11.94	PPBV	97
6) PROPYLENE	4.75	41	138275	8.33	PPBV #	84
7) FREON 114	5.04	85	535698	10.13	PPBV	97
8) CHLOROMETHANE	4.96	52	40783	7.51	PPBV #	59
9) VINYL CHLORIDE	5.15	62	157422	8.08	PPBV	99
10) 1,3-BUTADIENE	5.26	54	121297	7.93	PPBV #	53
11) n-BUTANE	5.31	43	281225	8.25	PPBV	98
12) BROMOMETHANE	5.50	94	136294	8.84	PPBV	98
13) CHLOROETHANE	5.63	64	84363	8.05	PPBV	91
14) FREON 123	6.02	85	263287	9.83	PPBV #	98
15) TRICHLOROFLUOROMETHANE	6.25	101	773504	12.62	PPBV	100
16) ISOPROPYL ALCOHOL	6.32	45	314490	10.09	PPBV	90
17) ACETONE	6.12	58	72940	8.25	PPBV #	28
18) PENTANE	6.53	42	230967	9.45	PPBV	87
19) TVHC as EQUIV PENTANE	6.53	TIC	1591916m	11.00	PPBV	
20) ETHYL ETHER	6.54	74	88413	9.24	PPBV	91
21) 1,1-DICHLOROETHYLENE	6.77	96	145432	7.90	PPBV #	49
22) CARBON DISULFIDE	7.16	76	416930	7.98	PPBV	81
23) ETHANOL	5.74	45	55917	8.31	PPBV	97
24) BROMOETHENE	5.92	106	155175	9.76	PPBV #	95
25) METHYLENE CHLORIDE	6.87	84	122514	7.31	PPBV	75
26) 3-CHLOROPROPENE	6.96	76	65602	8.04	PPBV #	20
27) FREON 113	7.07	151	290761	8.95	PPBV	91
28) TRANS-1,2-DICHLOROETHYLENE	7.64	96	141742	8.56	PPBV #	79
29) TERTIARY BUTYL ALCOHOL	6.82	59	294895	10.03	PPBV	91
30) METHYL TERTIARY BUTYL ETHE	7.86	73	584601	10.31	PPBV	93
31) TETRAHYDROFURAN	9.18	42	198401	9.02	PPBV	90
32) HEXANE	8.69	57	286311	8.60	PPBV #	76
33) VINYL ACETATE	7.91	86	35891	9.00	PPBV #	1
34) 1,1-DICHLOROETHANE	7.82	63	357568	9.25	PPBV	98
35) METHYL ETHYL KETONE	8.16	72	64765	8.84	PPBV #	60
36) cis-1,2-DICHLOROETHYLENE	8.53	96	151664	8.58	PPBV #	77
37) ETHYL ACETATE	8.70	61	35855	8.15	PPBV #	16
38) CHLOROFORM	8.80	83	454313	10.64	PPBV	94
39) 2,4-DIMETHYLPENTANE	9.47	57	336038	8.60	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.69	97	583416	11.91	PPBV	96
41) CARBON TETRACHLORIDE	10.24	117	642328	12.39	PPBV	99
42) 1,2-DICHLOROETHANE	9.45	62	420049	12.67	PPBV	98
44) BENZENE	10.11	78	464008	8.74	PPBV	96

(#) = qualifier out of range (m) = manual integration
W19565.D MW830.M Wed Jan 07 10:04:46 2009 MSW

6.3.2 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19565.D
Acq On : 6 Jan 2009 1:14 pm
Sample : BSD
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:03 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.3.2

6

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.36	84	211050	8.77	PPBV		92
46)	2,3-DIMETHYLPENTANE	10.55	71	110814	8.35	PPBV		79
47)	TRICHLOROETHYLENE	11.07	95	257931	10.16	PPBV		92
48)	1,2-DICHLOROPROPANE	10.86	63	171237	8.43	PPBV	#	77
49)	BROMODICHLOROMETHANE	11.04	83	528907	11.50	PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.08	57	960177	9.60	PPBV		99
51)	1,4-DIOXANE	11.10	88	75568	10.70	PPBV	#	1
52)	METHYL METHACRYLATE	11.23	69	159301	8.94	PPBV	#	68
53)	HEPTANE	11.31	43	390383	9.13	PPBV		90
54)	TVHC as EQUIV HEPTANE	11.31	TIC	1729765m	9.67	PPBV		
55)	METHYL ISOBUTYL KETONE	11.92	43	443452	10.81	PPBV		91
56)	cis-1,3-DICHLOROPROPENE	11.89	75	312237	9.98	PPBV	#	58
57)	TOLUENE	12.85	92	330214	9.26	PPBV		97
58)	trans-1,3-DICHLOROPROPENE	12.39	75	373727	11.01	PPBV	#	78
59)	1,1,2-TRICHLOROETHANE	12.58	83	152428	9.28	PPBV		99
61)	2-HEXANONE	13.11	43	414629	10.89	PPBV		85
62)	TETRACHLOROETHYLENE	14.00	164	225671	10.04	PPBV		95
63)	DIBROMOCHLOROMETHANE	13.29	129	433185	11.34	PPBV		100
64)	1,2-DIBROMOETHANE	13.54	107	296755	10.02	PPBV		99
65)	OCTANE	13.80	43	541205	9.46	PPBV		92
66)	CHLOROBENZENE	14.70	112	423500	9.27	PPBV		91
67)	ETHYLBENZENE	15.09	91	827954	9.81	PPBV		96
68)	m,p-XYLENE	15.28	106	576827	18.61	PPBV	#	85
69)	o-XYLENE	15.79	106	278213	9.35	PPBV	#	83
70)	STYRENE	15.67	104	412581	9.77	PPBV		90
71)	NONANE	16.00	43	563650	10.22	PPBV		94
72)	BROMOFORM	15.39	173	395156	11.81	PPBV		100
74)	1,1,2,2-TETRACHLOROETHANE	15.79	83	351922	9.46	PPBV		99
75)	ISOPROPYLBENZENE	16.43	105	916220	10.75	PPBV		94
76)	2-CHLOROTOLUENE	16.97	91	671662	11.06	PPBV		91
77)	4-ETHYLTOLUENE	17.16	105	854257	10.67	PPBV		97
78)	1,3,5-TRIMETHYLBENZENE	17.25	105	769056	10.53	PPBV		93
79)	1,2,4-TRIMETHYLBENZENE	17.71	105	729296	10.75	PPBV		95
80)	m-DICHLOROBENZENE	17.89	146	413675	10.41	PPBV		97
81)	BENZYL CHLORIDE	17.87	91	658138	12.82	PPBV		94
82)	p-DICHLOROBENZENE	17.96	146	385179	10.54	PPBV		97
83)	o-DICHLOROBENZENE	18.35	146	351150	10.81	PPBV		98
84)	HEXACHLOROBUTADIENE	20.79	225	199372	12.62	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.28	180	145062	13.99	PPBV		98

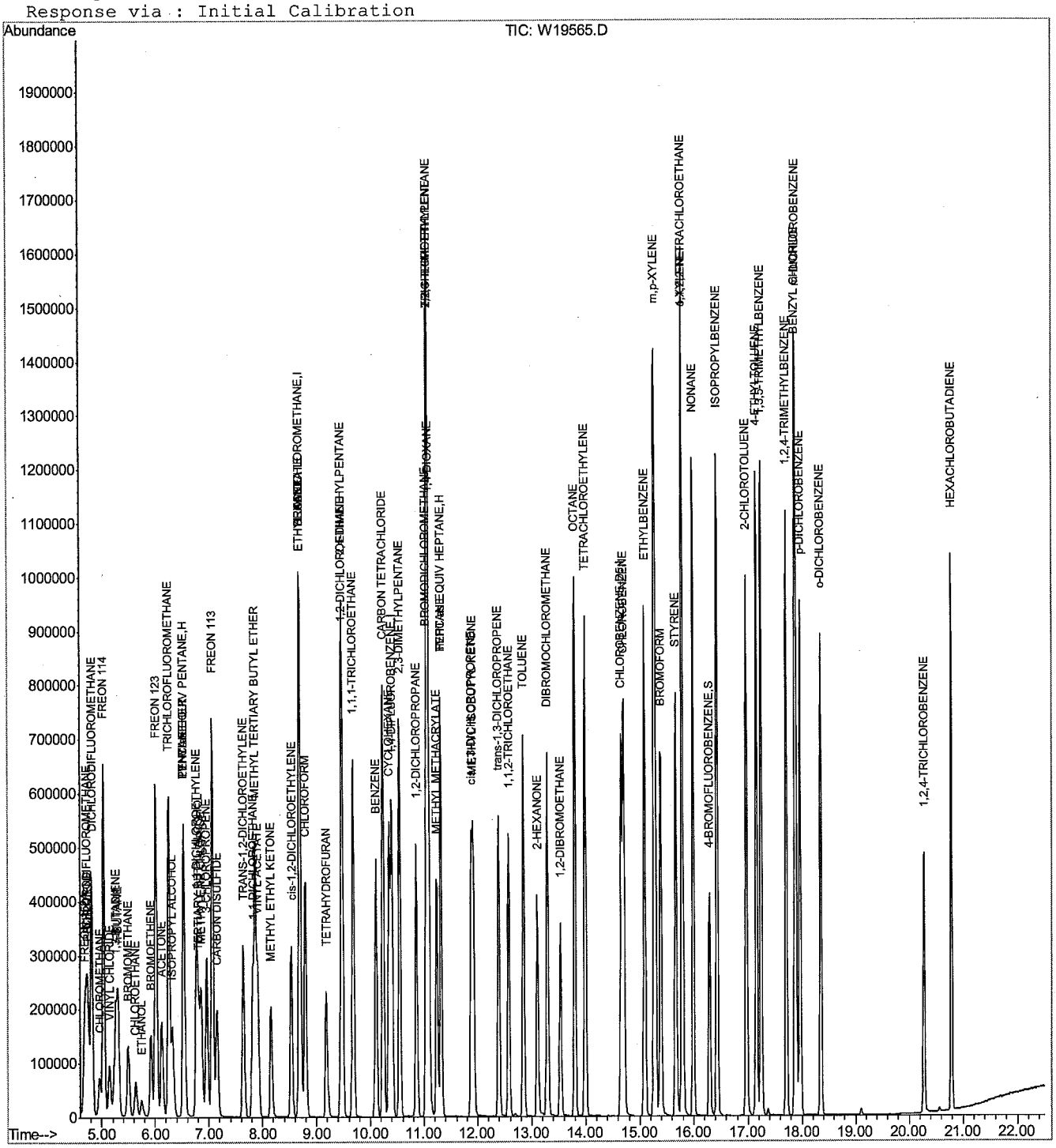
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19565.D
Acq On : 6 Jan 2009 1:14 pm
Sample : BSD
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



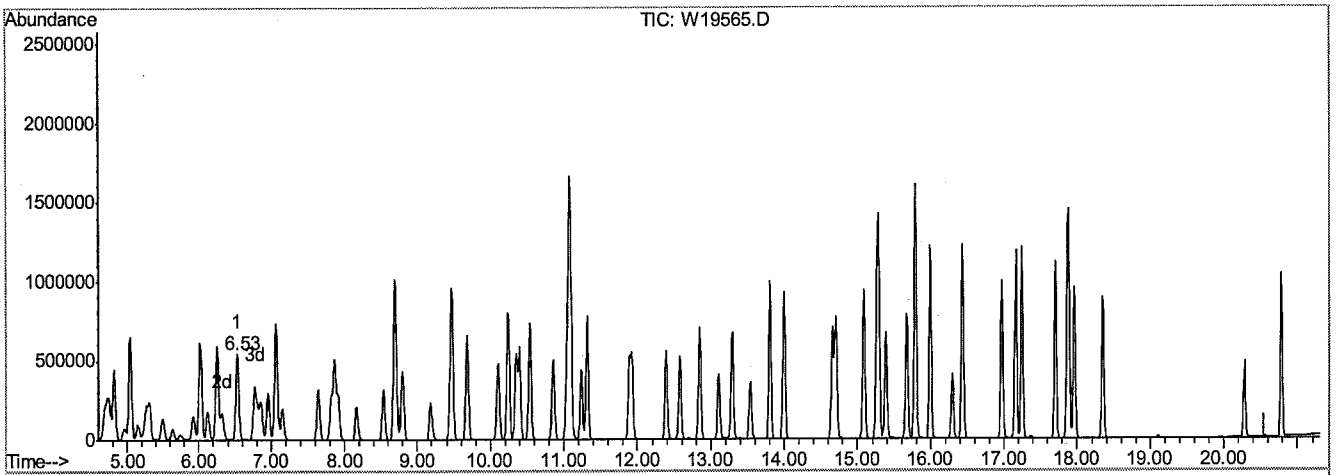
ACCUTEST LABORATORIES JA8427

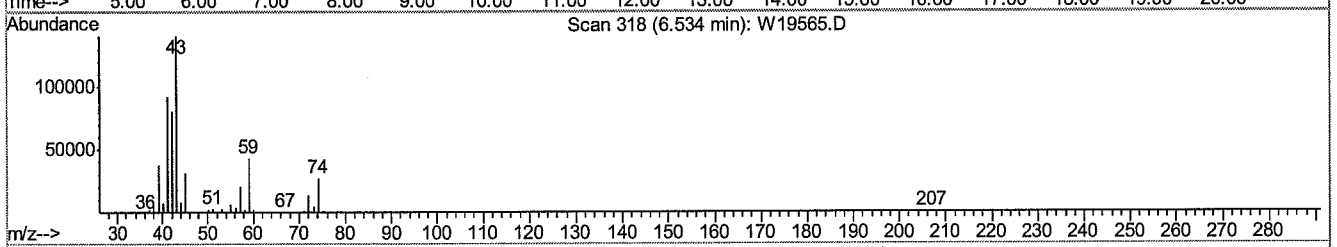
Quantitation Report (Qedit)

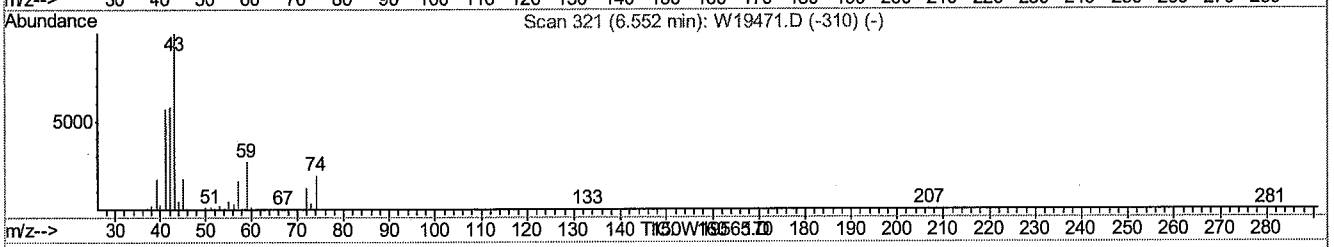
Data File : C:\MSDCHEM\1\DATA\W19565.D
Acq On : 6 Jan 2009 1:14 pm
Sample : BSD
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.53min 11.00PPBV m

response 1591916

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19565.D MW830.M Wed Jan 07 10:04:54 2009 MSW

Quantitation Report (Qedit)

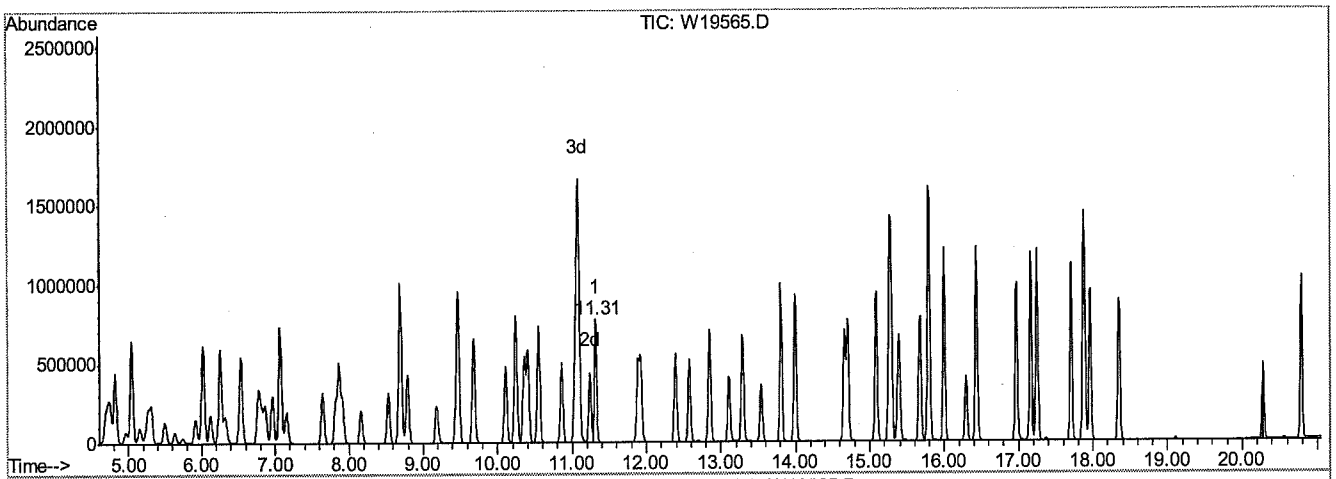
Data File : C:\MSDCHEM\1\DATA\W19565.D
Acq On : 6 Jan 2009 1:14 pm
Sample : BSD
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:39 2009

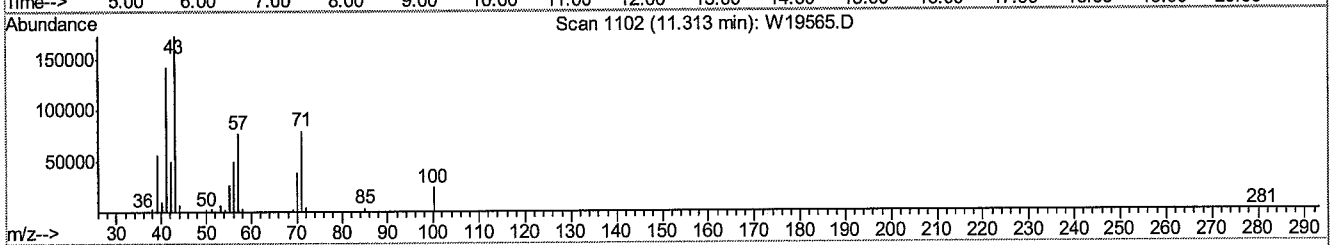
Vial: 3
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00

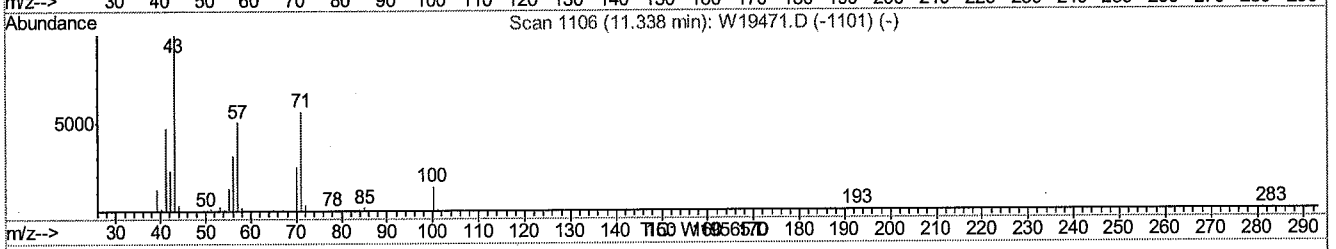
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration

6.3.2.2 6







(54) TVHC as EQUIV HEPTANE (H)

11.31min 9.67PPBV m

response 1729765

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19565.D MW830.M Wed Jan 07 10:04:57 2009 MSW

ACCUTEST. Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19150.D
Acq On : 10 Dec 2008 11:05 am
Sample : BS
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:45:54 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	165639	10.00	PPBV	0.02
43) 1,4-DIFLUOROBENZENE	10.48	114	825008	10.00	PPBV	0.02
60) CHLOROBENZENE-D5	14.72	117	703875	10.00	PPBV	0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.35	95	234721	5.16	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 103.20%			
Target Compounds						Qvalue
3) FREON 152A	4.74	65	143551	8.46	PPBV	96
4) CHLORODIFLUOROMETHANE	4.77	67	55086	9.73	PPBV #	42
5) DICHLORODIFLUOROMETHANE	4.87	85	593224	9.21	PPBV	100
6) PROPYLENE	4.81	41	169470	7.68	PPBV	98
7) FREON 114	5.10	85	697481	8.92	PPBV	99
8) CHLOROMETHANE	5.02	50	264676	10.18	PPBV	100
9) VINYL CHLORIDE	5.21	62	264054	8.68	PPBV	100
10) 1,3-BUTADIENE	5.32	54	205093	8.92	PPBV	92
11) n-BUTANE	5.37	43	403729	8.85	PPBV	99
12) BROMOMETHANE	5.56	94	229013	8.74	PPBV	100
13) CHLOROETHANE	5.70	64	150269	8.79	PPBV	99
14) FREON 123	6.09	85	391515	9.42	PPBV	100
15) TRICHLOROFLUOROMETHANE	6.32	101	665202	9.87	PPBV	100
16) ISOPROPYL ALCOHOL	6.48	45	306292	9.13	PPBV	99
17) ACETONE	6.22	58	119999	9.37	PPBV	94
18) PENTANE	6.60	42	263455	10.21	PPBV	99
19) TVHC as EQUIV PENTANE	6.60	TIC	1842643m	11.19	PPBV	
20) ETHYL ETHER	6.63	74	141149	9.75	PPBV	98
21) 1,1-DICHLOROETHYLENE	6.84	96	276142	8.68	PPBV	95
22) CARBON DISULFIDE	7.22	76	807851	9.47	PPBV	99
23) ETHANOL	5.88	45	83045	8.37	PPBV	100
24) BROMOETHENE	5.98	106	249352	9.54	PPBV	100
25) METHYLENE CHLORIDE	6.93	84	242318	8.42	PPBV	99
26) 3-CHLOROPROPENE	7.03	76	132008	9.96	PPBV #	79
27) FREON 113	7.13	151	465587	9.31	PPBV	99
28) TRANS-1,2-DICHLOROETHYLENE	7.71	96	259569	8.65	PPBV	98
29) TERTIARY BUTYL ALCOHOL	6.98	59	327723	9.51	PPBV #	75
30) METHYL TERTIARY BUTYL ETHE	7.96	73	711116	9.86	PPBV	99
31) TETRAHYDROFURAN	9.30	42	255863	9.74	PPBV	99
32) HEXANE	8.76	57	452300	9.49	PPBV	98
33) VINYL ACETATE	8.01	86	67676	9.70	PPBV	96
34) 1,1-DICHLOROETHANE	7.89	63	493366	9.47	PPBV	100
35) METHYL ETHYL KETONE	8.27	72	120125	9.55	PPBV	99
36) cis-1,2-DICHLOROETHYLENE	8.61	96	279623	8.69	PPBV	97
37) ETHYL ACETATE	8.81	61	67035	9.64	PPBV	96
38) CHLOROFORM	8.87	83	524655	9.71	PPBV	100
39) 2,4-DIMETHYLPENTANE	9.55	57	531702	9.79	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.76	97	551946	10.12	PPBV	100
41) CARBON TETRACHLORIDE	10.32	117	581921	10.32	PPBV	100
42) 1,2-DICHLOROETHANE	9.54	62	319687	10.39	PPBV	99
44) BENZENE	10.18	78	839736	9.03	PPBV	100

(#) = qualifier out of range (m) = manual integration
W19150.D MW816.M Thu Dec 11 10:04:17 2008 MSW

6.3.3

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19150.D
Acq On : 10 Dec 2008 11:05 am
Sample : BS
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:45:54 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.43	84	390289	9.09	PPBV		100
46)	2,3-DIMETHYLPENTANE	10.62	71	208823	9.38	PPBV		99
47)	TRICHLOROETHYLENE	11.15	95	350093	9.62	PPBV		100
48)	1,2-DICHLOROPROPANE	10.94	63	293101	9.15	PPBV		97
49)	BROMODICHLOROMETHANE	11.13	83	555483	10.25	PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.16	57	1417962	10.51	PPBV		100
51)	1,4-DIOXANE	11.22	88	127263	9.13	PPBV	#	76
52)	METHYL METHACRYLATE	11.33	69	265772	9.62	PPBV	#	6
53)	HEPTANE	11.40	43	493824	9.96	PPBV		99
54)	TVHC as EQUIV HEPTANE	11.40	TIC	2221738m	9.83	PPBV		
55)	METHYL ISOBUTYL KETONE	12.03	43	467401	10.00	PPBV		98
56)	cis-1,3-DICHLOROPROPENE	11.96	75	440050	9.65	PPBV		96
57)	TOLUENE	12.93	92	588734	9.21	PPBV		99
58)	trans-1,3-DICHLOROPROPENE	12.47	75	433775	10.09	PPBV		98
59)	1,1,2-TRICHLOROETHANE	12.66	83	258611	9.27	PPBV		99
61)	2-HEXANONE	13.21	43	417558	10.03	PPBV		98
62)	TETRACHLOROETHYLENE	14.06	164	356468	9.10	PPBV		97
63)	DIBROMOCHLOROMETHANE	13.36	129	545974	10.35	PPBV		99
64)	1,2-DIBROMOETHANE	13.61	107	449698	9.53	PPBV		100
65)	OCTANE	13.87	43	645874	10.45	PPBV		99
66)	CHLOROBENZENE	14.77	112	727901	9.23	PPBV		99
67)	ETHYLBENZENE	15.15	91	1231583	9.87	PPBV		99
68)	m,p-XYLENE	15.34	106	981369	19.88	PPBV		98
69)	o-XYLENE	15.85	106	474053	10.06	PPBV		96
70)	STYRENE	15.74	104	713326	9.91	PPBV		98
71)	NONANE	16.05	43	636668	11.35	PPBV		99
72)	BROMOFORM	15.46	173	499388	10.46	PPBV		99
74)	1,1,2,2-TETRACHLOROETHANE	15.85	83	576516	10.70	PPBV		100
75)	ISOPROPYLBENZENE	16.49	105	1345777	10.86	PPBV		98
76)	2-CHLOROTOLUENE	17.02	91	906796	10.89	PPBV		98
77)	4-ETHYLTOLUENE	17.21	105	1244879	10.72	PPBV		99
78)	1,3,5-TRIMETHYLBENZENE	17.29	105	1059919	10.55	PPBV		98
79)	1,2,4-TRIMETHYLBENZENE	17.75	105	1007353	10.76	PPBV		98
80)	m-DICHLOROBENZENE	17.93	146	635487	10.20	PPBV		98
81)	BENZYL CHLORIDE	17.91	91	819481	12.31	PPBV		98
82)	p-DICHLOROBENZENE	18.00	146	602372	10.15	PPBV		99
83)	o-DICHLOROBENZENE	18.39	146	543877	10.13	PPBV		99
84)	HEXACHLOROBUTADIENE	20.81	225	232858	11.63	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.31	180	226099	12.92	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19150.D MW816.M Thu Dec 11 10:04:18 2008 MSW

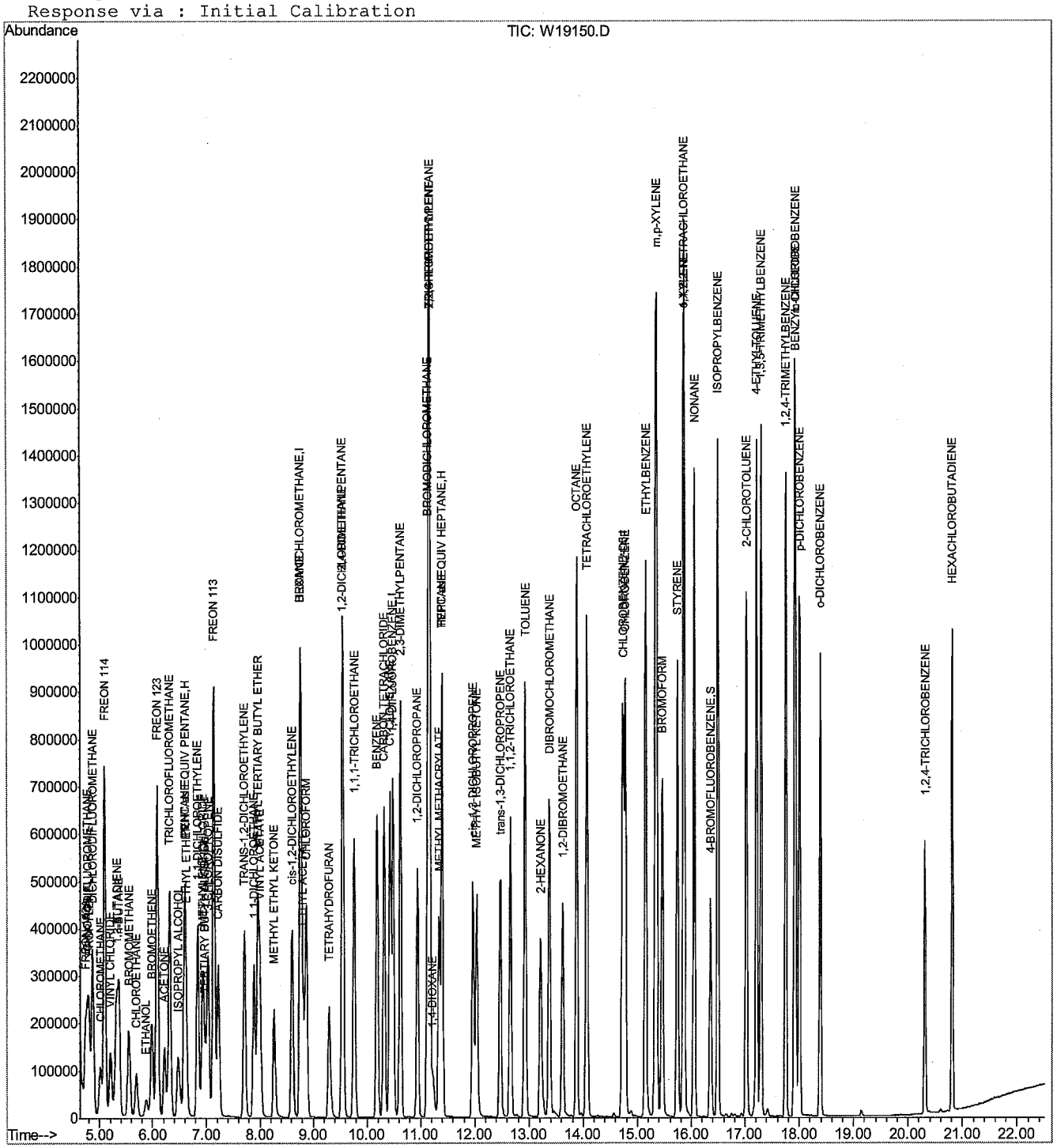
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19150.D
Acq On : 10 Dec 2008 11:05 am
Sample : BS
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:37 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00

Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



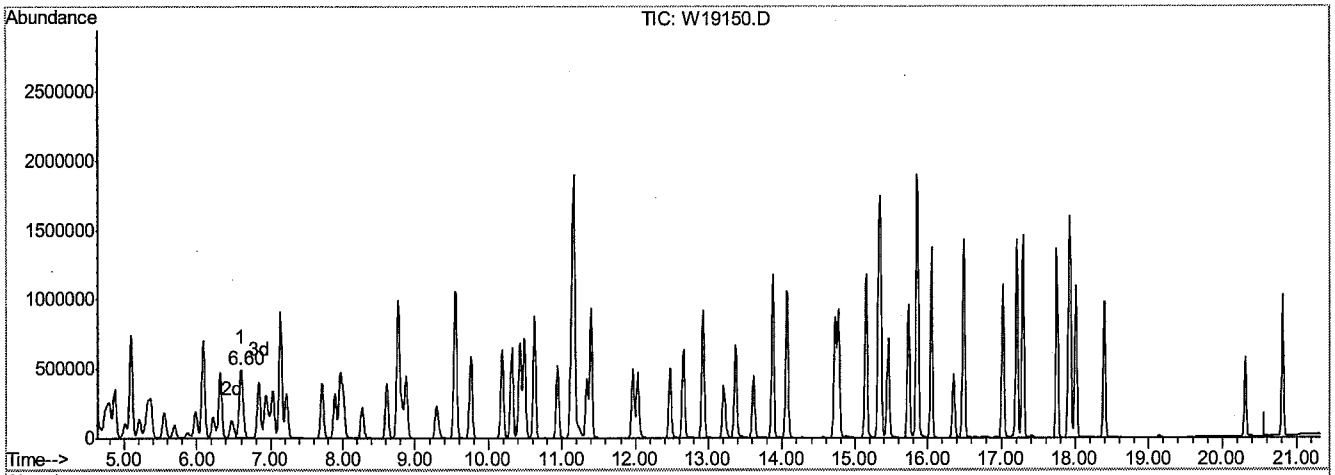
ACCUTEST Laboratories JA8427

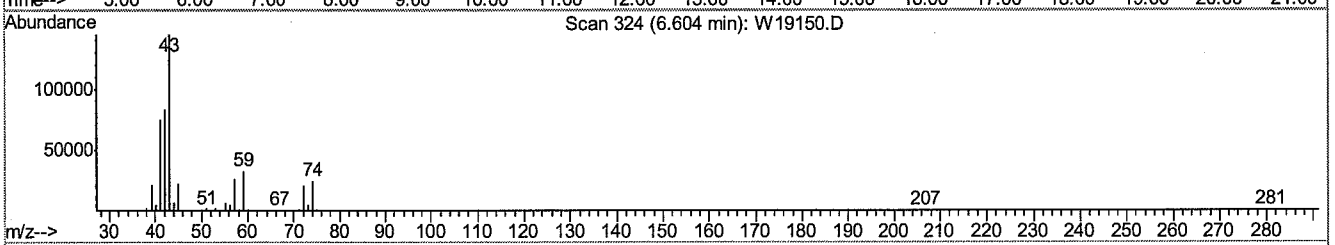
Quantitation Report (Qedit)

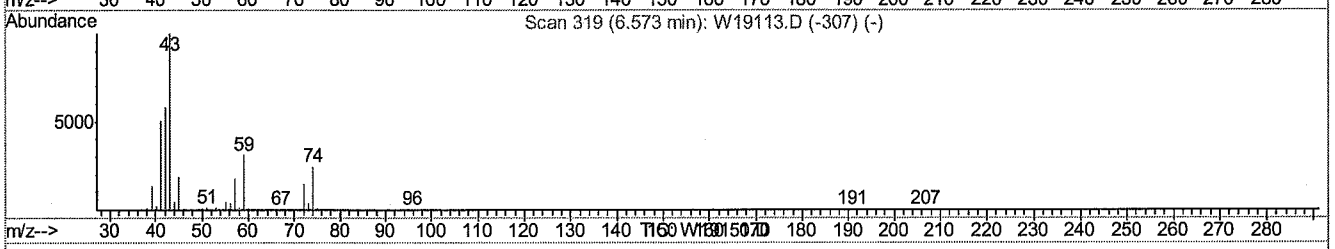
Data File : C:\MSDCHEM\1\DATA\W19150.D
Acq On : 10 Dec 2008 11:05 am
Sample : BS
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:37 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.60min 11.19PPBV m

response 1842643

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

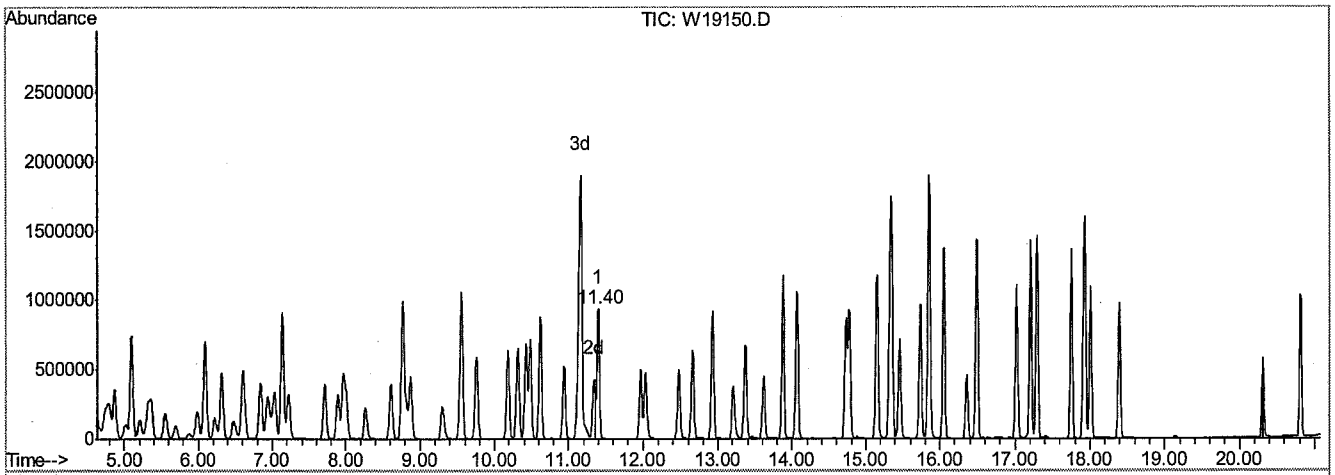
W19150.D MW816.M Thu Dec 11 10:04:27 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19150.D
Acq On : 10 Dec 2008 11:05 am
Sample : BS
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:37 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.40min 9.83PPBV m

response 2221738

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19150.D MW816.M Thu Dec 11 10:04:31 2008 MSW

6.3.3.2

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19151.D
Acq On : 10 Dec 2008 11:45 am
Sample : BSD
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:46:00 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.76	128	169592	10.00	PPBV	0.02
43) 1,4-DIFLUOROBENZENE	10.47	114	848433	10.00	PPBV	0.02
60) CHLOROBENZENE-D5	14.72	117	725924	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.35	95	239576	5.11	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 102.20%			
Target Compounds						Qvalue
3) FREON 152A	4.73	65	150018	8.64	PPBV	97
4) CHLORODIFLUOROMETHANE	4.77	67	57448	9.91	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.86	85	621430	9.43	PPBV	100
6) PROPYLENE	4.80	41	177261	7.84	PPBV	98
7) FREON 114	5.09	85	735232	9.18	PPBV	99
8) CHLOROMETHANE	5.01	50	275098	10.33	PPBV	99
9) VINYL CHLORIDE	5.20	62	276836	8.89	PPBV	100
10) 1,3-BUTADIENE	5.31	54	213924	9.09	PPBV	93
11) n-BUTANE	5.36	43	416564	8.92	PPBV	99
12) BROMOMETHANE	5.55	94	243597	9.08	PPBV	100
13) CHLOROETHANE	5.68	64	158999	9.09	PPBV	100
14) FREON 123	6.07	85	409560	9.63	PPBV	100
15) TRICHLOROFLUOROMETHANE	6.31	101	693427	10.05	PPBV	100
16) ISOPROPYL ALCOHOL	6.45	45	324352	9.44	PPBV	99
17) ACETONE	6.20	58	123516	9.42	PPBV	97
18) PENTANE	6.59	42	255488	9.67	PPBV	97
19) TVHC as EQUIV PENTANE	6.59	TIC	1749603m	10.38	PPBV	
20) ETHYL ETHER	6.62	74	142154	9.59	PPBV	100
21) 1,1-DICHLOROETHYLENE	6.84	96	289307	8.88	PPBV	97
22) CARBON DISULFIDE	7.21	76	842950	9.66	PPBV	99
23) ETHANOL	5.85	45	83732	8.24	PPBV	99
24) BROMOETHENE	5.98	106	264144	9.87	PPBV	100
25) METHYLENE CHLORIDE	6.93	84	255421	8.67	PPBV	98
26) 3-CHLOROPROPENE	7.02	76	137831	10.16	PPBV	93
27) FREON 113	7.13	151	492565	9.62	PPBV	99
28) TRANS-1,2-DICHLOROETHYLENE	7.71	96	273637	8.90	PPBV	99
29) TERTIARY BUTYL ALCOHOL	6.95	59	323021	9.16	PPBV #	76
30) METHYL TERTIARY BUTYL ETHE	7.94	73	735739	9.96	PPBV	98
31) TETRAHYDROFURAN	9.28	42	261824	9.74	PPBV	98
32) HEXANE	8.76	57	468955	9.62	PPBV	99
33) VINYL ACETATE	7.99	86	71416	9.99	PPBV	97
34) 1,1-DICHLOROETHANE	7.88	63	509520	9.55	PPBV	100
35) METHYL ETHYL KETONE	8.25	72	124410	9.66	PPBV	97
36) cis-1,2-DICHLOROETHYLENE	8.60	96	298197	9.05	PPBV	99
37) ETHYL ACETATE	8.80	61	69911	9.82	PPBV	100
38) CHLOROFORM	8.87	83	549659	9.93	PPBV	100
39) 2,4-DIMETHYLPENTANE	9.54	57	550763	9.91	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.75	97	576956	10.33	PPBV	99
41) CARBON TETRACHLORIDE	10.30	117	608747	10.55	PPBV	100
42) 1,2-DICHLOROETHANE	9.52	62	331687	10.53	PPBV	99
44) BENZENE	10.18	78	888241	9.29	PPBV	100

(#) = qualifier out of range (m) = manual integration
W19151.D MW816.M Thu Dec 11 10:04:42 2008 MSW

6.3.4 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19151.D
Acq On : 10 Dec 2008 11:45 am
Sample : BSD
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:46:00 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.42	84	413236	9.36	PPBV		99
46)	2,3-DIMETHYLPENTANE	10.62	71	219316	9.58	PPBV		99
47)	TRICHLOROETHYLENE	11.14	95	371224	9.92	PPBV		100
48)	1,2-DICHLOROPROPANE	10.93	63	306447	9.30	PPBV		97
49)	BROMODICHLOROMETHANE	11.11	83	582546	10.45	PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.15	57	1461594	10.54	PPBV		99
51)	1,4-DIOXANE	11.21	88	132297	9.23	PPBV	#	81
52)	METHYL METHACRYLATE	11.33	69	277187	9.75	PPBV	#	21
53)	HEPTANE	11.38	43	507440	9.95	PPBV		100
54)	TVHC as EQUIV HEPTANE	11.38	TIC	2217733m	9.54	PPBV		
55)	METHYL ISOBUTYL KETONE	12.02	43	473077	9.85	PPBV		99
56)	cis-1,3-DICHLOROPROPENE	11.96	75	467841	9.98	PPBV		98
57)	TOLUENE	12.92	92	623838	9.49	PPBV		100
58)	trans-1,3-DICHLOROPROPENE	12.46	75	461941	10.44	PPBV		99
59)	1,1,2-TRICHLOROETHANE	12.65	83	271359	9.46	PPBV		99
61)	2-HEXANONE	13.19	43	421416	9.82	PPBV		99
62)	TETRACHLOROETHYLENE	14.05	164	384244	9.51	PPBV		98
63)	DIBROMOCHLOROMETHANE	13.36	129	582787	10.72	PPBV		100
64)	1,2-DIBROMOETHANE	13.61	107	483772	9.94	PPBV		100
65)	OCTANE	13.86	43	665906	10.45	PPBV		99
66)	CHLOROBENZENE	14.77	112	776290	9.54	PPBV		99
67)	ETHYLBENZENE	15.14	91	1299484	10.10	PPBV		99
68)	m,p-XYLENE	15.33	106	1032539	20.28	PPBV		99
69)	o-XYLENE	15.85	106	497272	10.23	PPBV		96
70)	STYRENE	15.73	104	761074	10.25	PPBV		98
71)	NONANE	16.05	43	663189	11.47	PPBV		99
72)	BROMOFORM	15.45	173	535268	10.87	PPBV		99
74)	1,1,2,2-TETRACHLOROETHANE	15.85	83	604364	10.88	PPBV		99
75)	ISOPROPYLBENZENE	16.49	105	1416696	11.09	PPBV		99
76)	2-CHLOROTOLUENE	17.02	91	957463	11.15	PPBV		98
77)	4-ETHYLTOLUENE	17.21	105	1328943	11.10	PPBV		99
78)	1,3,5-TRIMETHYLBENZENE	17.29	105	1118697	10.80	PPBV		98
79)	1,2,4-TRIMETHYLBENZENE	17.75	105	1063910	11.02	PPBV		98
80)	m-DICHLOROBENZENE	17.93	146	681708	10.61	PPBV		99
81)	BENZYL CHLORIDE	17.91	91	871477	12.70	PPBV		99
82)	p-DICHLOROBENZENE	18.00	146	644827	10.53	PPBV		99
83)	o-DICHLOROBENZENE	18.39	146	581781	10.51	PPBV		99
84)	HEXACHLOROBUTADIENE	20.81	225	251842	12.19	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.31	180	244255	13.54	PPBV		99

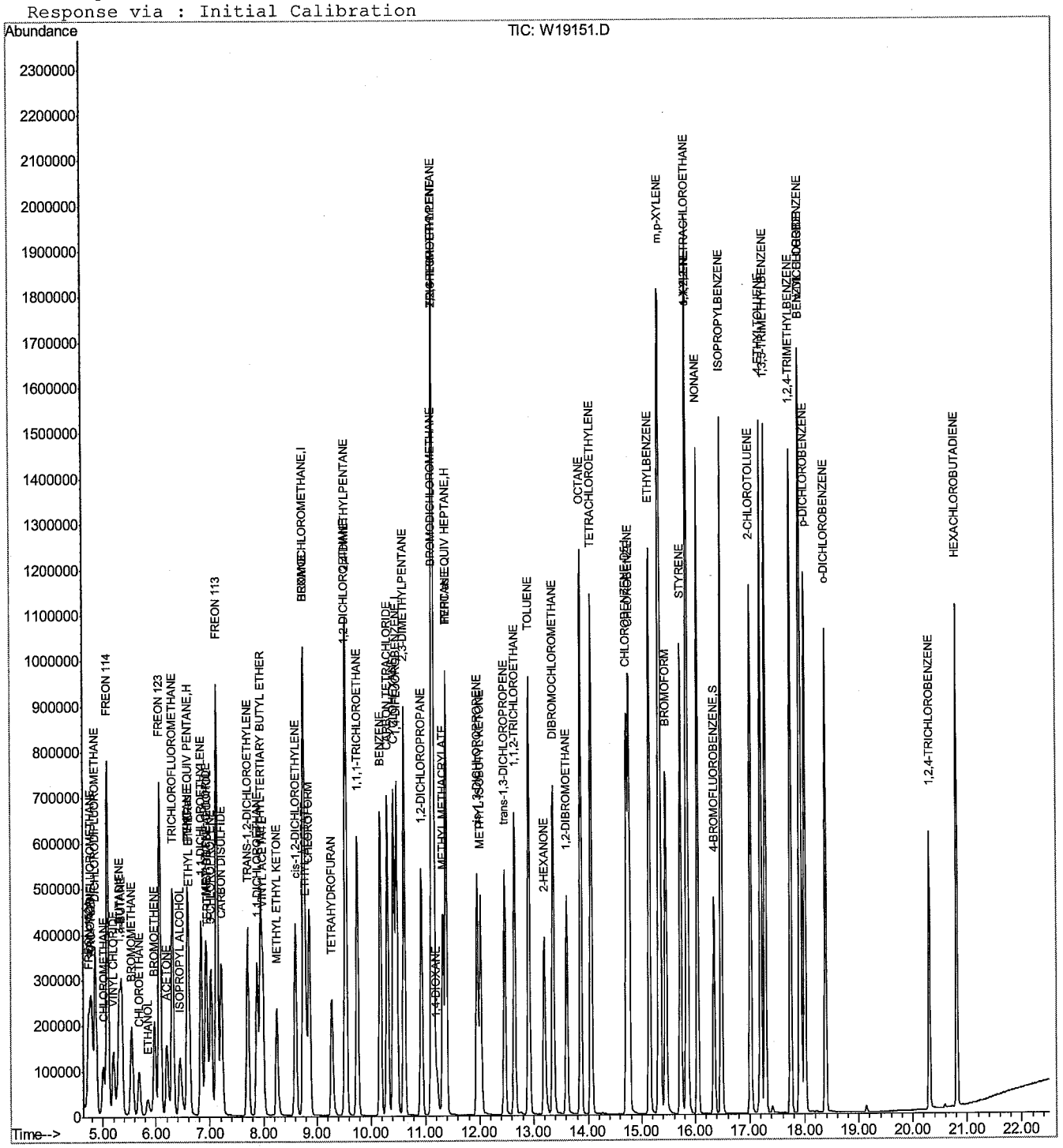
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19151.D MW816.M Thu Dec 11 10:04:43 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19151.D
Acq On : 10 Dec 2008 11:45 am
Sample : BSD
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:38 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



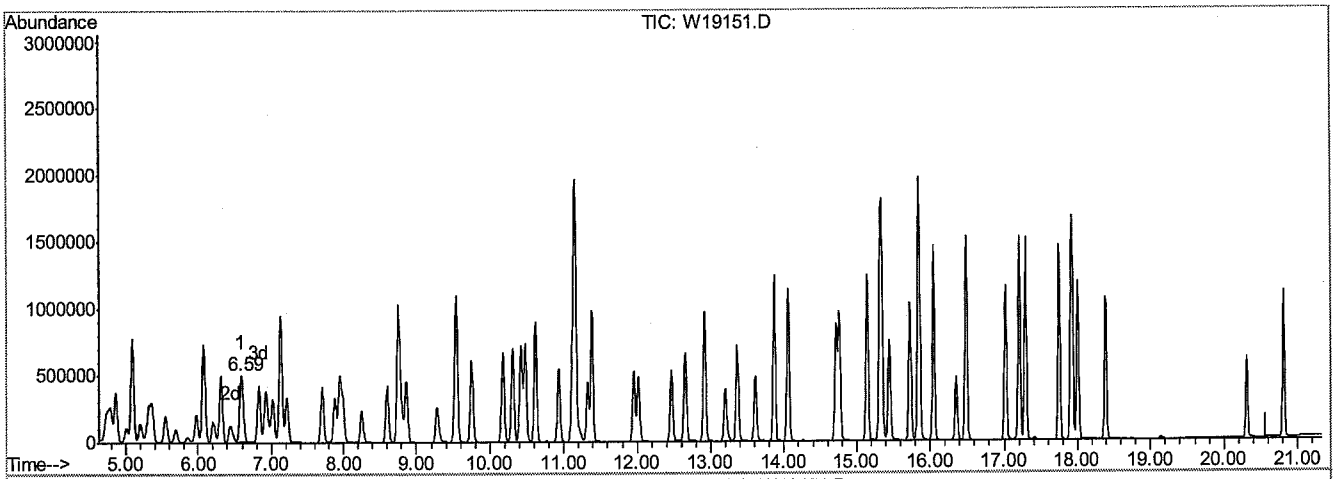
ACCUTEST Laboratories JA8427

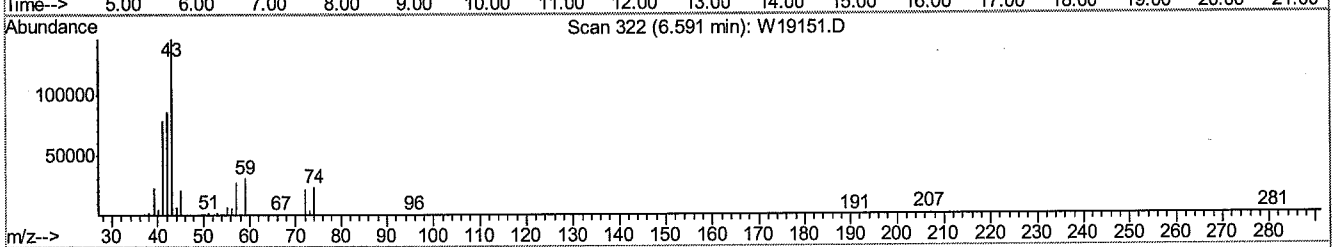
Quantitation Report (Qedit)

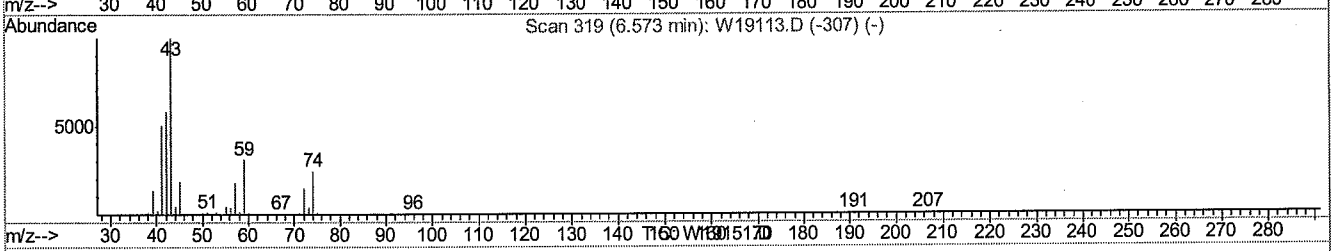
Data File : C:\MSDCHEM\1\DATA\W19151.D
Acq On : 10 Dec 2008 11:45 am
Sample : BSD
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:38 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.59min 10.38PPBV m

response 1749603

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

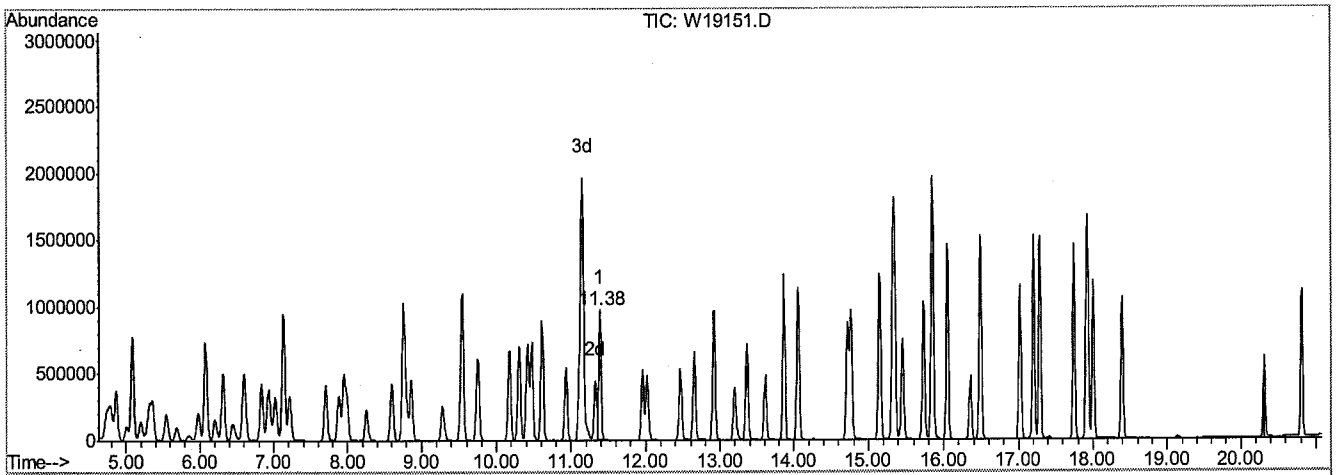
W19151.D MW816.M Thu Dec 11 10:04:50 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19151.D
Acq On : 10 Dec 2008 11:45 am
Sample : BSD
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:38 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.38min 9.54PPBV m

response 2217733

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19151.D MW816.M Thu Dec 11 10:04:55 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19573.D
Acq On : 6 Jan 2009 7:50 pm
Sample : JA8551-6DUP(A338,A531)
Misc : MS74283,VW834,100,,,,240
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:51:36 2009

Vial: 10
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.77	128	122473	10.00	PPBV	0.06
43) 1,4-DIFLUOROBENZENE	10.47	114	627562	10.00	PPBV	0.04
60) CHLOROBENZENE-D5	14.68	117	544770	10.00	PPBV	0.00

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.31	95	199857	5.02	PPBV	0.00

Spiked Amount 5.000 Range 78 - 124 Recovery = 100.40%

Target Compounds						Qvalue
30) METHYL TERTIARY BUTYL ETHE	7.95	73	5518457	76.05	PPBV #	70
32) HEXANE	8.81	57	3135438	73.61	PPBV	90
44) BENZENE	10.19	78	220150	3.09	PPBV	98
45) CYCLOHEXANE	10.44	84	890605	27.55	PPBV	86
50) 2,2,4-TRIMETHYLPENTANE	11.15	57	8684099	64.65	PPBV	94
53) HEPTANE	11.39	43	162399	2.83	PPBV	97

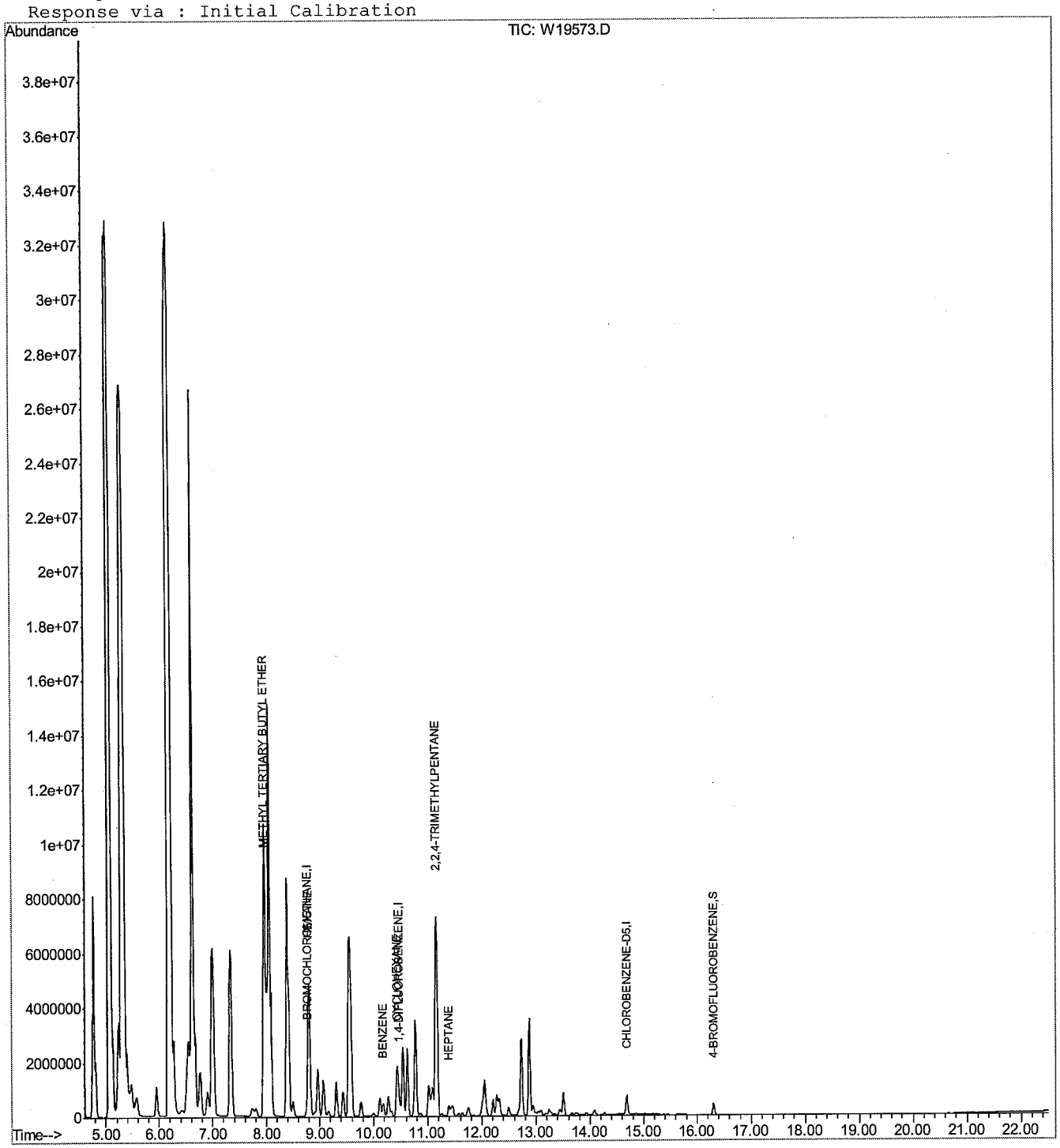
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19573.D MW830.M Wed Jan 07 10:00:45 2009 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19573.D
Acq On : 6 Jan 2009 7:50 pm
Sample : JA8551-6DUP(A338,A531)
Misc : MS74283,VW834,100,,,,240
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:46 2009

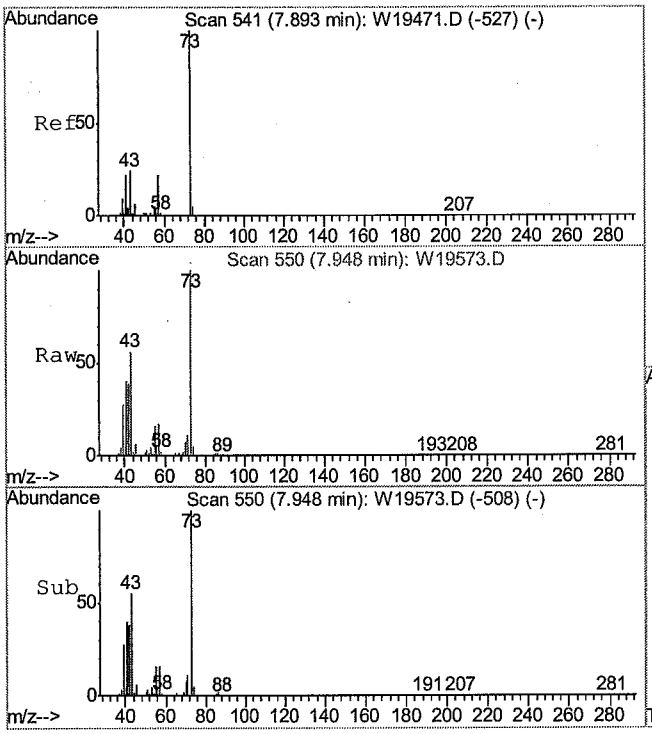
Vial: 10
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



W19573.D MW830.M Wed Jan 07 10:00:45 2009 MSW

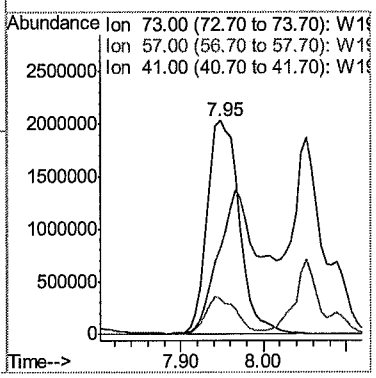
ACCUTEST Laboratories JA8427

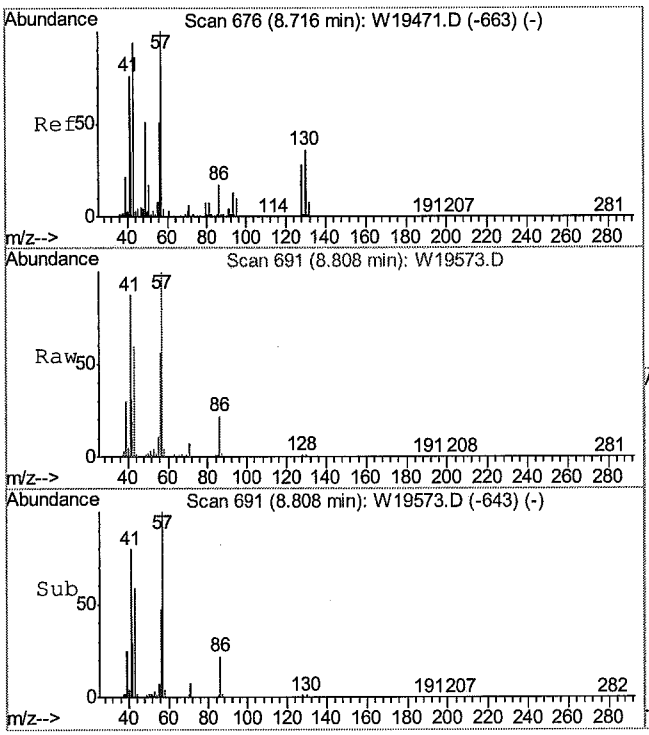


#30
METHYL TERTIARY BUTYL ETHER
Concen: 76.05 PPBV
RT: 7.95 min Scan# 550
Delta R.T. 0.05 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

Tgt Ion: 73 Resp: 5518457

Ion	Ratio	Lower	Upper
73	100		
57	16.6	2.0	42.0
41	0.0	2.9	42.9#

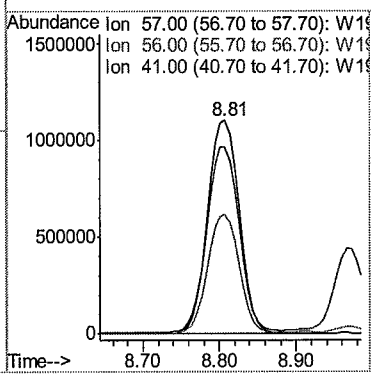




#32
HEXANE
Concen: 73.61 PPBV
RT: 8.81 min Scan# 691
Delta R.T. 0.09 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

Tgt Ion: 57 Resp: 3135438

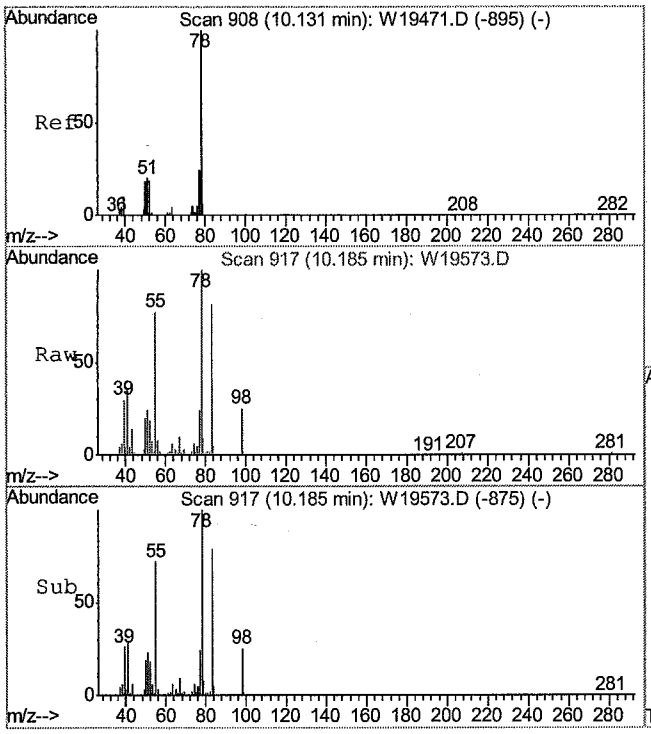
Ion	Ratio	Lower	Upper
57	100		
56	56.1	31.5	71.5
41	90.1	59.4	99.4



6.4.1

6

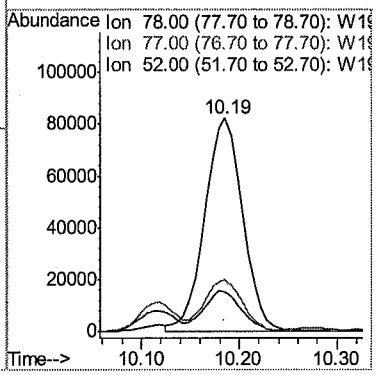
ACCUTEST Laboratories JA8427

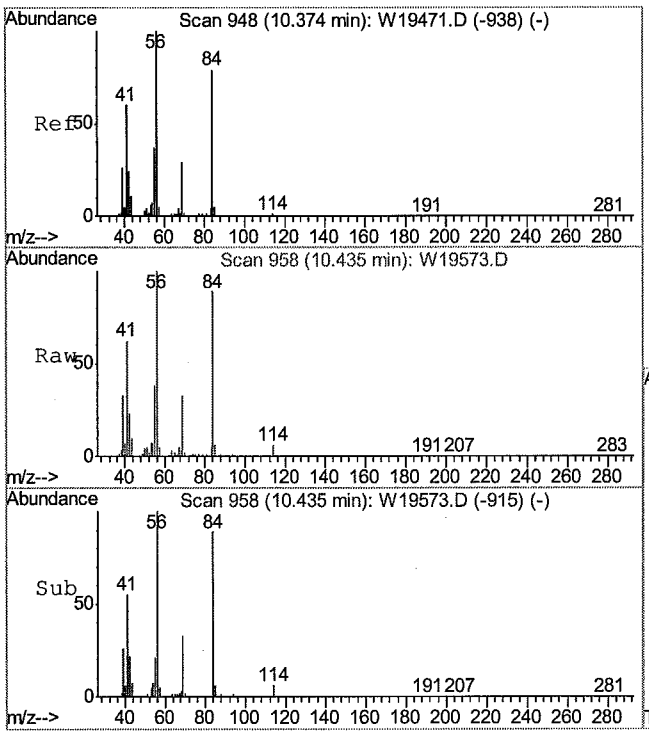


#44
BENZENE
Concen: 3.09 PPBV
RT: 10.19 min Scan# 917
Delta R.T. 0.05 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

Tgt Ion: 78 Resp: 220150

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.4	43.4
52	18.3	0.0	38.6

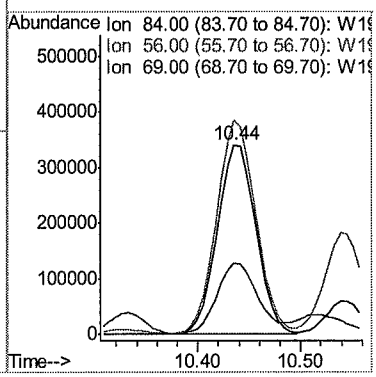




#45
CYCLOHEXANE
Concen: 27.55 PPBV
RT: 10.44 min Scan# 958
Delta R.T. 0.06 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

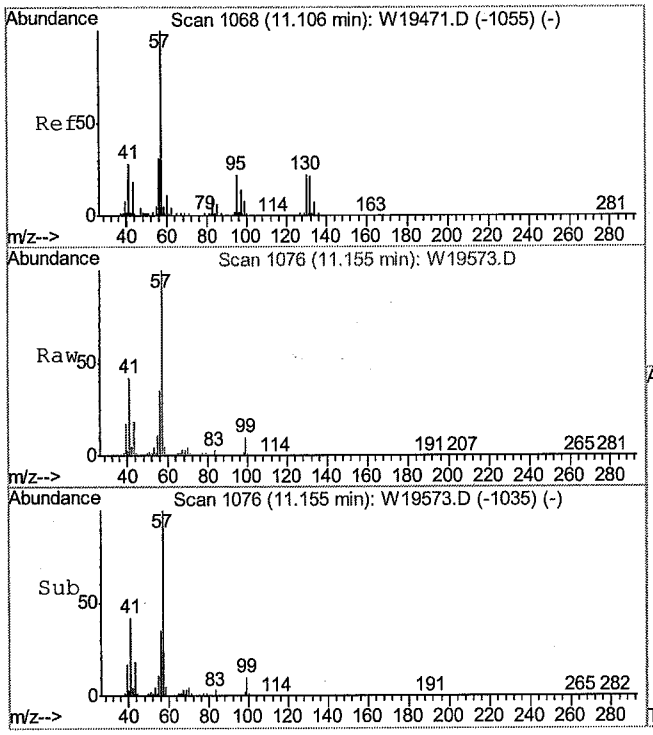
Tgt Ion: 84 Resp: 890605

Ion	Ratio	Lower	Upper
84	100		
56	113.7	113.1	153.1
69	39.0	23.9	63.9



6.4.1

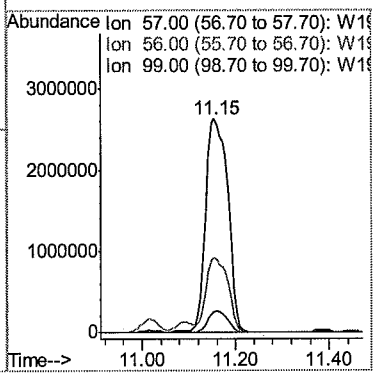
6

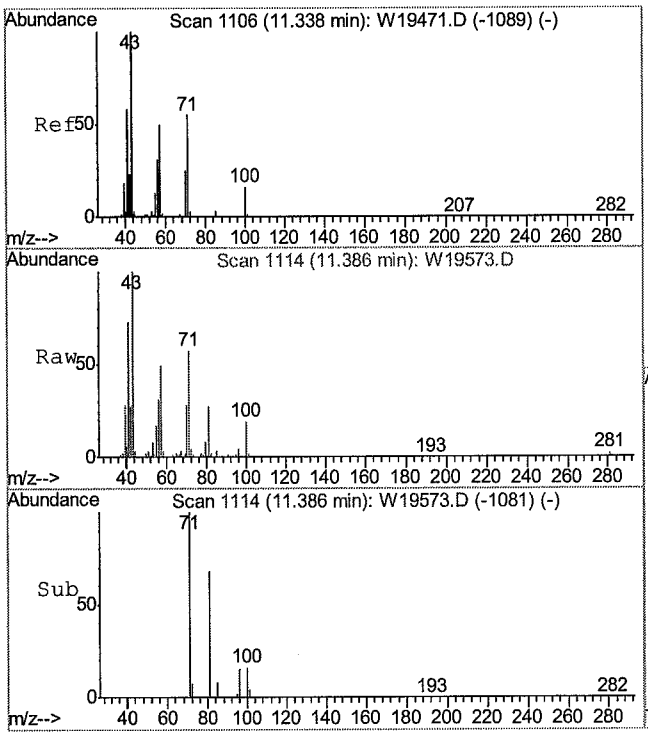


#50
2,2,4-TRIMETHYLPENTANE
Concen: 64.65 PPBV
RT: 11.15 min Scan# 1076
Delta R.T. 0.05 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

Tgt Ion: 57 Resp: 8684099

Ion	Ratio	Lower	Upper
57	100		
56	34.6	11.0	51.0
99	8.7	0.0	27.7

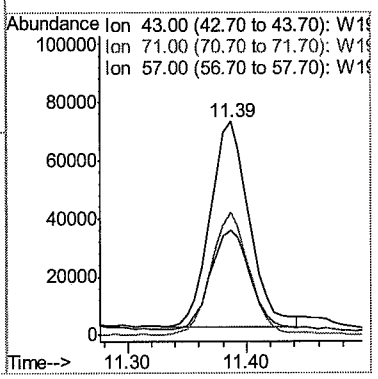




#53
HEPTANE
Concen: 2.83 PPBV
RT: 11.39 min Scan# 1114
Delta R.T. 0.05 min
Lab File: W19573.D
Acq: 6 Jan 2009 7:50 pm

Tgt Ion: 43 Resp: 162399

Ion	Ratio	Lower	Upper
43	100		
71	58.0	33.8	73.8
57	50.6	30.3	70.3



6.4.1 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19173.D
Acq On : 11 Dec 2008 6:10 am
Sample : SCC(A505)
Misc : MS73542,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:48:22 2008

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	139623	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.46	114	671063	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	542752	10.00	PPBV	0.00

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.34	95	166302	4.74	PPBV	0.00

Spiked Amount 5.000 Range 78 - 124 Recovery = 94.80%

Target Compounds Qvalue

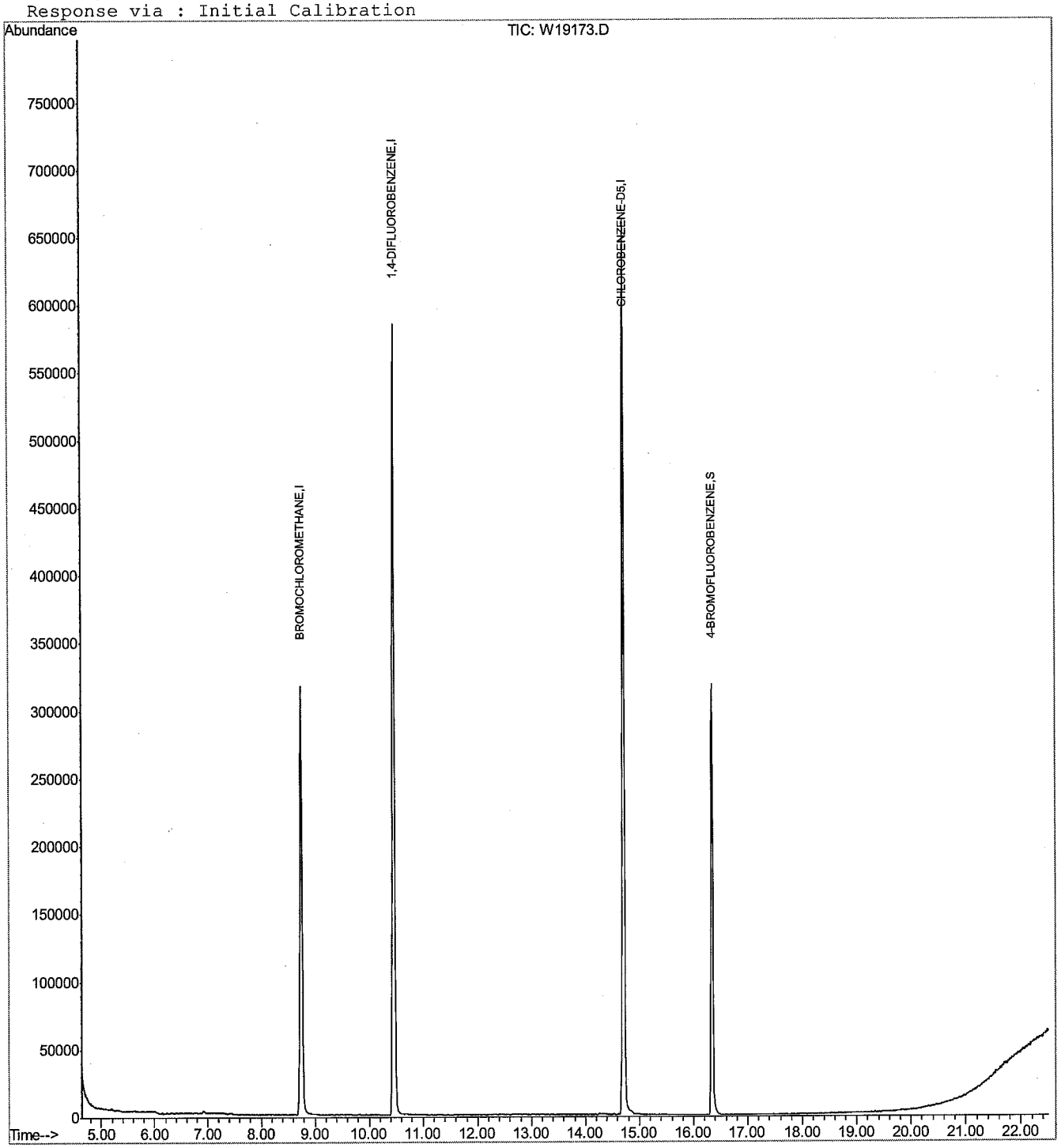
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19173.D MW816.M Thu Dec 11 10:06:05 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19173.D
Acq On : 11 Dec 2008 6:10 am
Sample : SCC(A505)
Misc : MS73542,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 10:02 2008

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

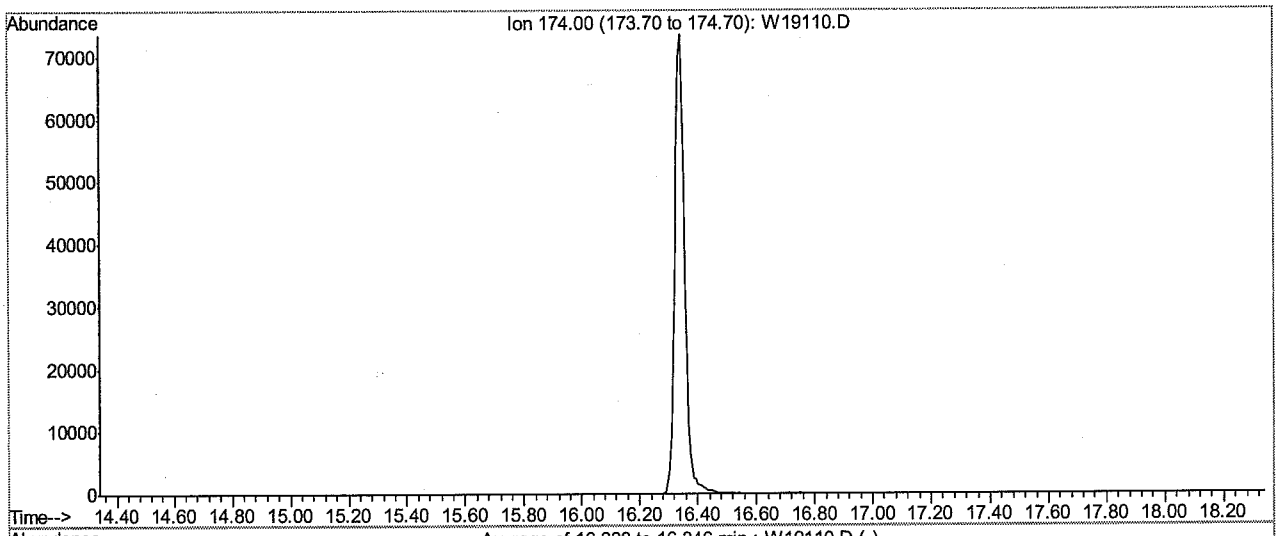
Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration

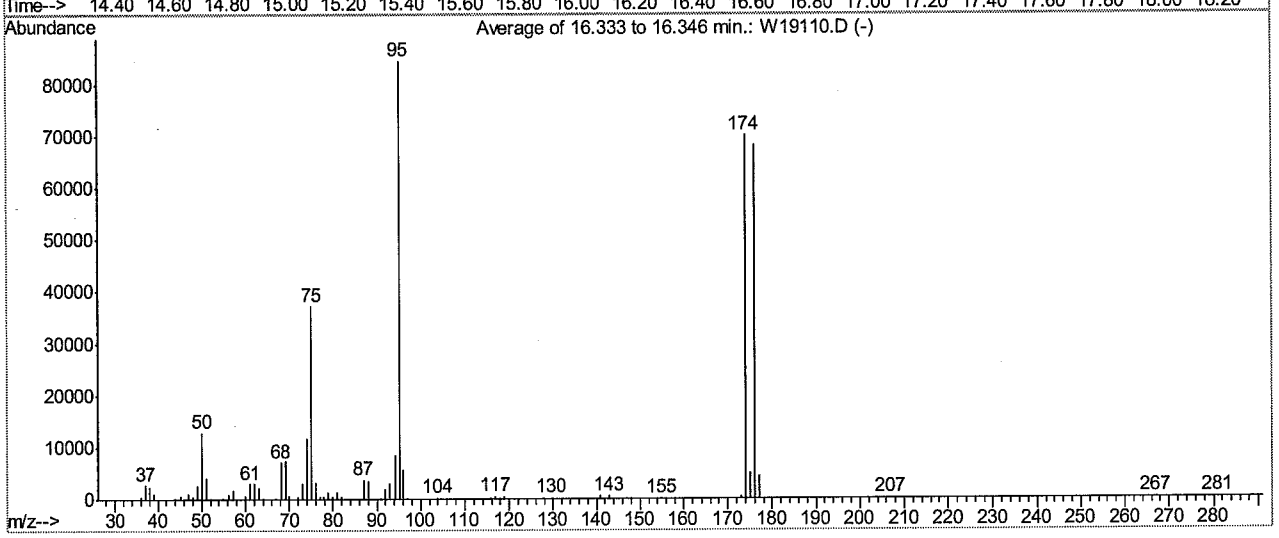


BFB

Data File : C:\MSDCHEM\1\DATA\W19110.D
Acq On : 8 Dec 2008 8:12 pm
Sample : BFB
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00





AutoFind: Scans 1920, 1921, 1922; Background Corrected with Scan 1909

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.2	12876	PASS
75	95	30	66	44.0	37240	PASS
95	95	100	100	100.0	84586	PASS
96	95	5	9	6.7	5640	PASS
173	174	0.00	2	0.6	395	PASS
174	95	50	120	82.9	70133	PASS
175	174	4	9	7.1	4963	PASS
176	174	93	101	97.3	68213	PASS
177	176	5	9	6.5	4422	PASS

W19110.D MW816.M Tue Dec 09 10:35:17 2008 MSW

Average of 16.333 to 16.346 min.: W19110.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	517	51.10	4018	68.10	7056	80.00	460
37.10	2800	52.10	185	69.10	7367	81.00	1295
38.10	2462	55.00	166	70.05	601	82.00	396
39.10	1041	56.10	867	72.00	373	87.00	3778
40.00	16	57.10	1656	73.10	3117	88.00	3559
44.00	213	60.05	572	74.10	11805	90.95	208
45.10	611	61.10	2955	75.10	37240	92.00	1927
47.10	1133	62.10	2965	76.10	3220	93.00	2989
48.05	341	63.10	2199	77.00	460	94.10	8553
49.10	2563	64.05	222	77.95	346	95.10	84586
50.10	12876	67.00	186	78.95	1226	96.10	5640

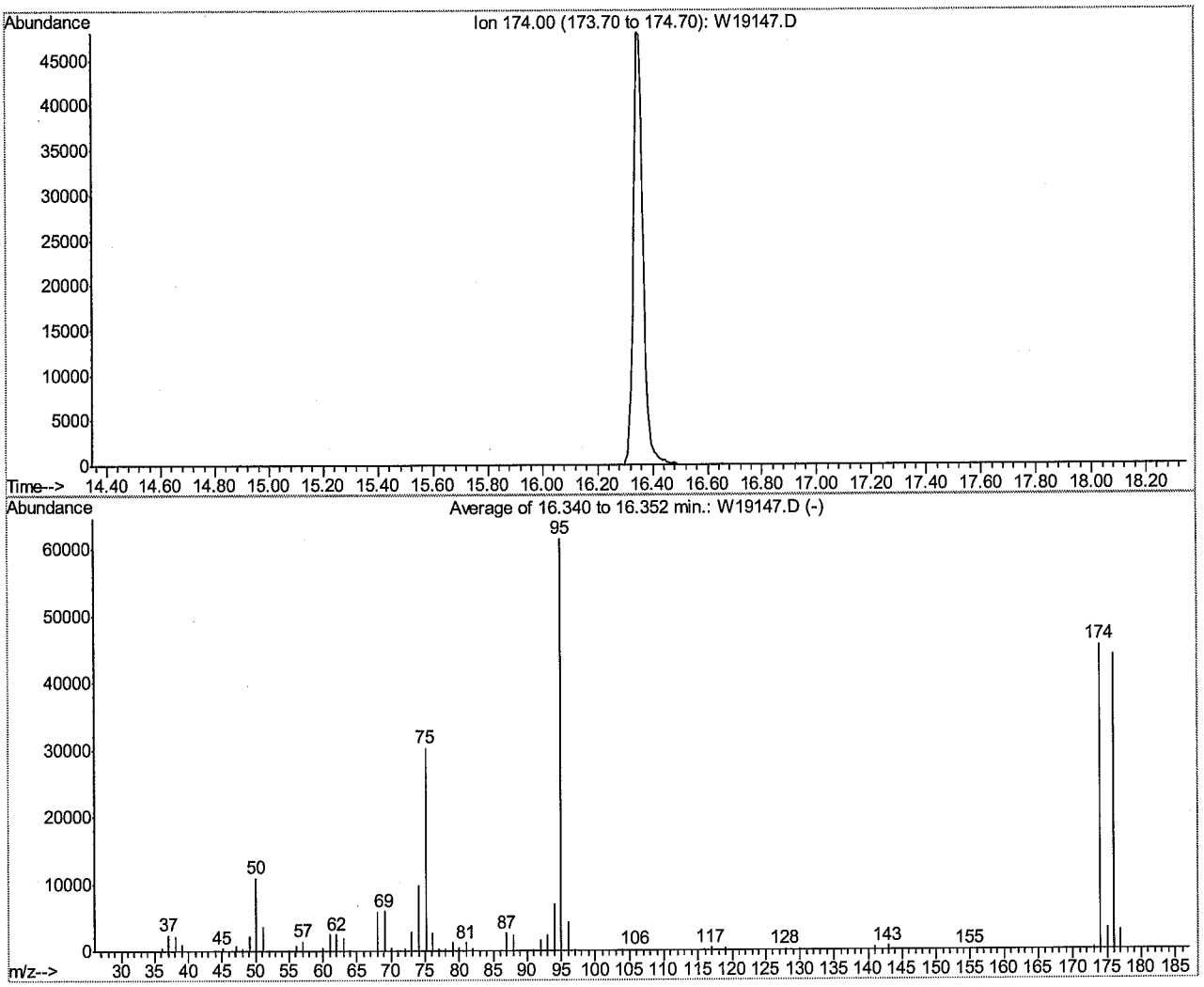
Average of 16.333 to 16.346 min.: W19110.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.05	116	142.95	641	281.10	85		
103.95	249	147.00	193				
105.95	229	147.90	195				
115.95	194	154.95	191				
117.00	465	173.00	395				
117.90	241	174.00	70133				
118.90	348	175.00	4963				
127.95	240	176.00	68213				
129.00	54	177.00	4422				
129.90	289	207.00	113				
140.95	603	267.05	190				

BFB

Data File : C:\MSDCHEM\1\DATA\W19147.D
Acq On : 10 Dec 2008 8:24 am
Sample : BFB
Misc : MS73570,VW818,,,,,1
MS Integration Params: LSCINT.P
Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00



AutoFind: Scans 1921, 1922, 1923; Background Corrected with Scan 1911

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.8	10934	PASS
75	95	30	66	49.2	30277	PASS
95	95	100	100	100.0	61514	PASS
96	95	5	9	6.9	4250	PASS
173	174	0.00	2	0.6	259	PASS
174	95	50	120	73.8	45416	PASS
175	174	4	9	7.0	3194	PASS
176	174	93	101	96.6	43882	PASS
177	176	5	9	6.4	2812	PASS

W19147.D MW816.M Thu Dec 11 10:03:32 2008 MSW

Average of 16.340 to 16.352 min.: W19147.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	416	51.10	3587	69.05	5960	81.00	1195
37.10	2379	52.05	173	70.05	510	81.95	375
38.10	2205	55.05	165	72.00	301	87.00	2673
39.10	950	56.05	789	73.05	2846	88.00	2390
40.00	51	57.05	1464	74.10	9803	90.95	176
44.00	221	60.00	493	75.10	30277	92.00	1555
45.05	467	61.05	2458	76.05	2701	93.00	2439
47.05	852	62.05	2518	77.00	398	94.05	6907
48.00	320	63.10	1932	78.00	255	95.05	61514
49.10	2217	64.05	184	78.95	1205	96.00	4250
50.10	10934	68.05	5876	79.95	449	97.00	111

Average of 16.340 to 16.352 min.: W19147.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.95	206	173.00	259				
105.95	214	174.00	45416				
115.90	203	175.00	3194				
116.90	429	176.00	43882				
117.95	199	177.00	2812				
119.00	314						
127.95	205						
129.95	137						
140.95	534						
142.95	609						
155.00	53						

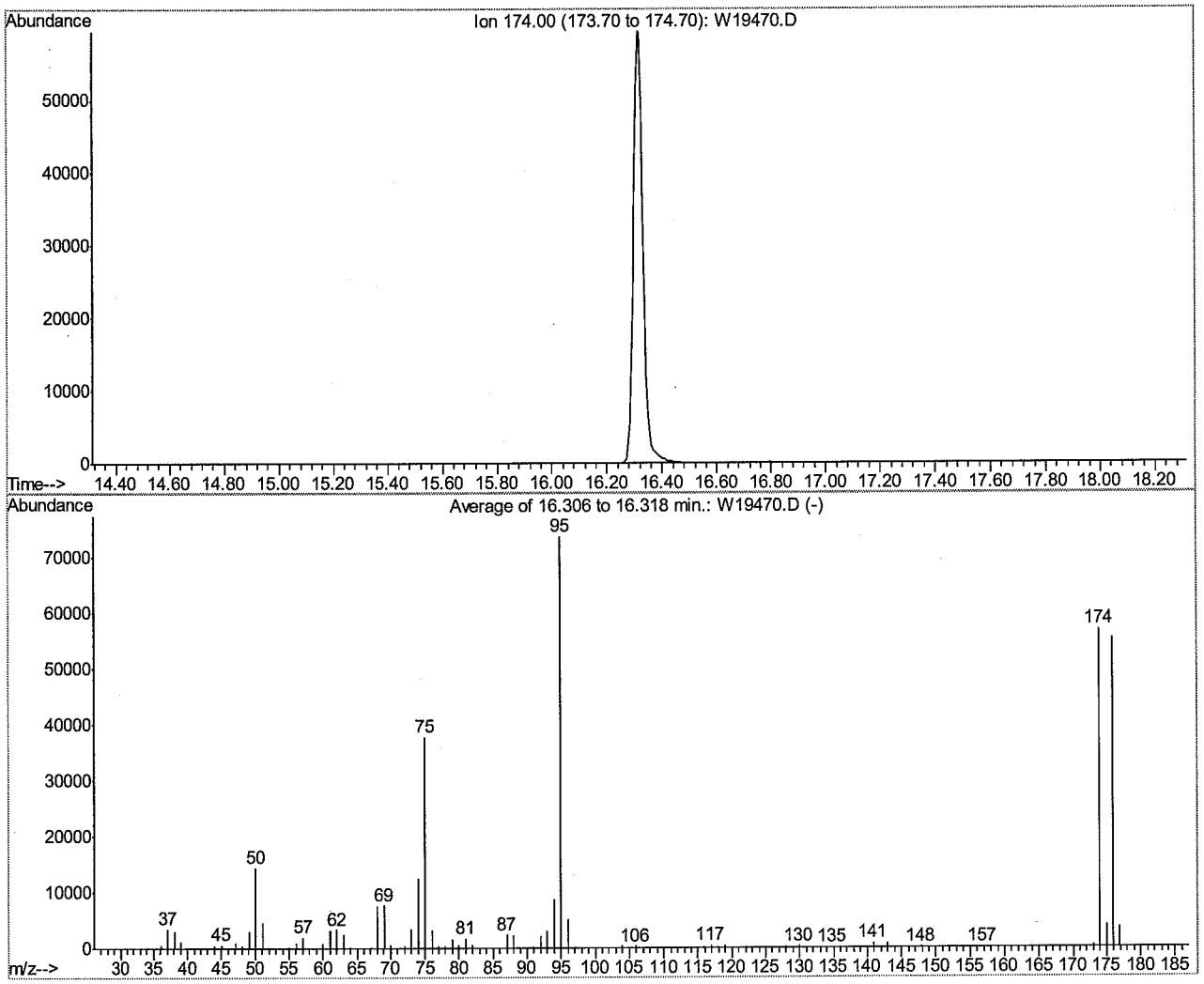
6.6.2

6

BFB

Data File : C:\MSDCHEM\1\DATA\W19470.D
Acq On : 30 Dec 2008 5:10 pm
Sample : BFB
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um

Vial: 5
Operator: BENR
Inst : MSW
Multiplr: 1.00



AutoFind: Scans 1921, 1922, 1923; Background Corrected with Scan 1911

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	14339	PASS
75	95	30	66	51.2	37690	PASS
95	95	100	100	100.0	73584	PASS
96	95	5	9	6.8	5021	PASS
173	174	0.00	2	0.7	371	PASS
174	95	50	120	77.1	56754	PASS
175	174	4	9	7.1	4004	PASS
176	174	93	101	97.2	55178	PASS
177	176	5	9	6.5	3606	PASS

W19470.D MW830.M Wed Dec 31 10:33:29 2008 MSW

Average of 16.306 to 16.318 min.: W19470.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	637	51.10	4571	68.00	7487	79.95	576
37.10	3420	52.05	224	69.05	7654	80.95	1750
38.10	2994	55.00	178	70.00	568	81.95	486
39.10	1187	56.05	972	72.00	393	87.00	2416
39.95	62	57.05	1891	73.00	3374	87.95	2194
44.00	298	60.00	718	74.00	12360	91.00	232
45.05	650	61.00	3219	75.05	37690	92.00	2043
47.05	1002	62.05	3376	76.05	3221	93.00	3107
48.00	435	63.05	2527	76.95	425	94.00	8616
49.10	3061	64.05	208	77.95	297	95.00	73584
50.10	14339	67.05	185	78.95	1518	96.00	5021

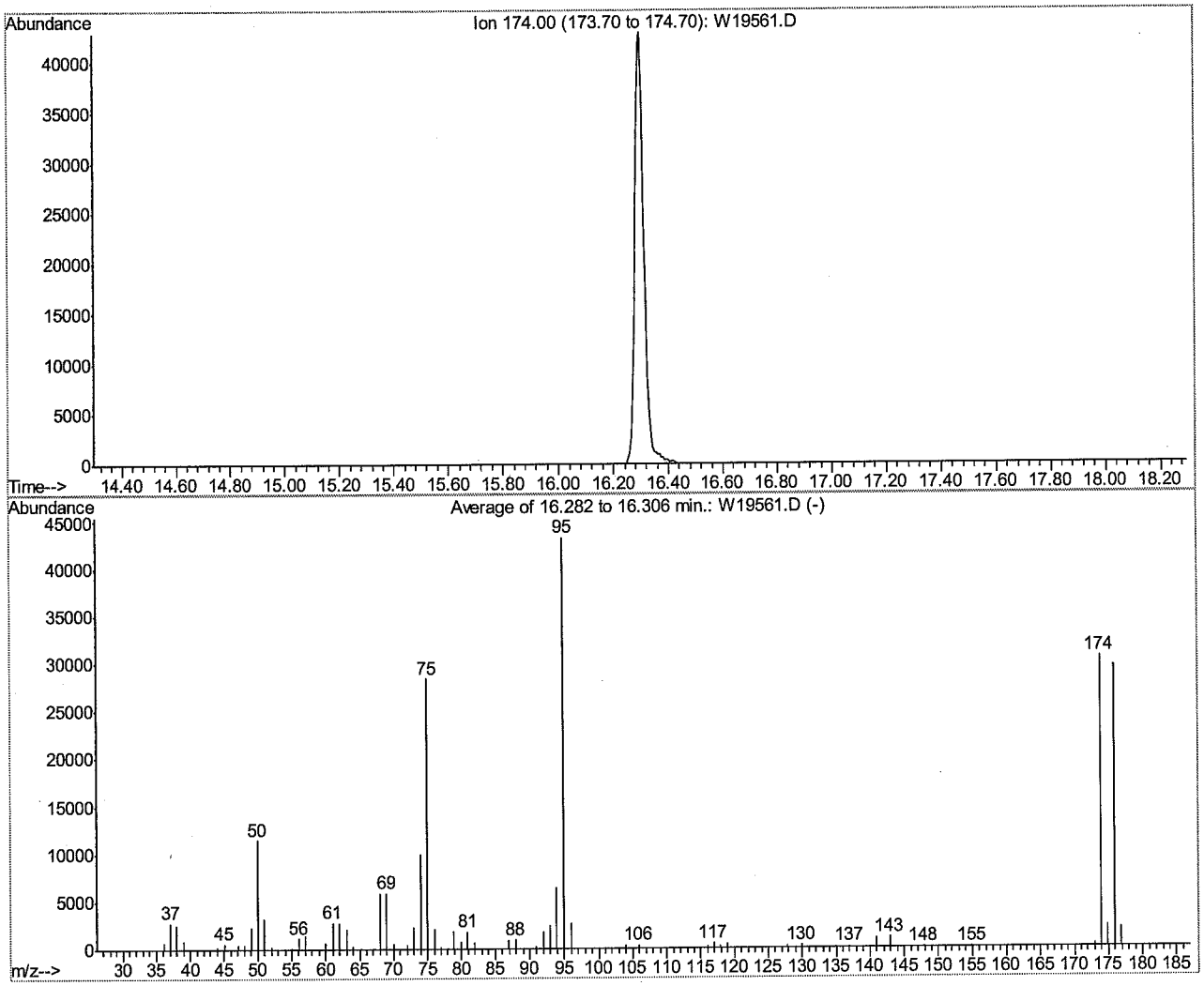
Average of 16.306 to 16.318 min.: W19470.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.10	112	130.90	54	176.00	55178		
103.90	303	134.90	51	176.95	3606		
104.90	53	136.90	51				
105.90	304	140.95	800				
115.90	249	142.90	774				
116.95	477	147.90	116				
117.95	277	154.80	52				
118.95	320	156.90	59				
127.95	237	172.95	371				
128.90	61	174.00	56754				
129.95	302	175.00	4004				

BFB

Data File : C:\MSDCHEM\1\DATA\W19561.D
Acq On : 6 Jan 2009 9:31 am
Sample : BFB
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um

Vial: 5
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00



Spectrum Information: Average of 16.282 to 16.306 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.6	11498	PASS
75	95	30	66	65.8	28444	PASS
95	95	100	100	100.0	43243	PASS
96	95	5	9	6.2	2672	PASS
173	174	0.00	2	0.9	283	PASS
174	95	50	120	70.6	30542	PASS
175	174	4	9	7.3	2230	PASS
176	174	93	101	96.8	29571	PASS
177	176	5	9	6.7	1973	PASS

W19561.D MW830.M Wed Jan 07 10:02:59 2009 MSW

Average of 16.282 to 16.306 min.: W19561.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	663	52.00	210	65.00	30	76.00	2152
37.10	2811	55.00	81	65.15	115	77.00	251
38.00	2564	55.15	107	66.90	32	77.80	32
39.10	836	56.05	1211	67.15	129	78.05	110
44.00	216	57.00	1497	68.00	5849	78.90	1906
45.05	610	60.00	694	69.00	5915	79.95	818
47.05	487	61.00	2805	70.05	579	80.90	1815
48.05	426	61.95	2723	72.00	429	81.95	617
49.05	2366	63.00	2118	73.00	2372	86.95	908
50.00	11498	64.05	282	74.05	9971	87.95	984
51.05	3226	64.90	34	75.00	28444	90.95	257

Average of 16.282 to 16.306 min.: W19561.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1754	118.95	435	157.00	33		
93.00	2493	127.85	201	171.90	35		
93.95	6429	128.80	40	172.95	283		
95.00	43243	129.90	295	173.90	30542		
96.05	2672	134.95	81	174.90	2230		
103.90	332	136.95	119	175.95	29571		
105.90	342	140.95	1008	176.95	1973		
115.70	45	142.90	1099				
115.95	200	144.90	38				
116.95	545	147.90	81				
117.95	277	154.95	109				

Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/12/08 13:06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:37:33 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:37:30 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	172976	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	861369	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	714402	10.00	PPBV	0.00

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.34	95	220666	4.78	PPBV	0.00

Spiked Amount 5.000 Range 78 - 124 Recovery = 95.60%

Target Compounds						Qvalue
3) FREON 152A	4.71	65	4516	0.25	PPBV #	71
4) CHLORODIFLUOROMETHANE	4.76	67	1416	0.24	PPBV #	57
5) DICHLORODIFLUOROMETHANE	4.84	85	15947	0.24	PPBV	97
6) PROPYLENE	4.78	41	7544	0.33	PPBV	95
7) FREON 114	5.07	85	19100	0.23	PPBV	94
8) CHLOROMETHANE	5.00	50	7084m	0.22	PPBV	
9) VINYL CHLORIDE	5.18	62	7538	0.24	PPBV	98
10) 1,3-BUTADIENE	5.29	54	5677	0.24	PPBV	93
11) n-BUTANE	5.34	43	12489	0.26	PPBV #	92
12) BROMOMETHANE	5.54	94	6370	0.23	PPBV #	74
13) CHLOROETHANE	5.67	64	4271	0.24	PPBV	89
14) FREON 123	6.05	85	10104	0.23	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.29	101	16543	0.24	PPBV	99
16) ISOPROPYL ALCOHOL	6.54	45	7894	0.23	PPBV #	20
17) ACETONE	6.26	58	3151	0.24	PPBV	92
18) PENTANE	6.57	42	8151	0.30	PPBV	88
20) ETHYL ETHER	6.65	74	3425	0.23	PPBV	89
21) 1,1-DICHLOROETHYLENE	6.82	96	8725	0.26	PPBV #	61
22) CARBON DISULFIDE	7.20	76	21046	0.24	PPBV	82
23) ETHANOL	5.92	45	2910	0.28	PPBV	87
24) BROMOETHENE	5.96	106	6380	0.23	PPBV #	98
25) METHYLENE CHLORIDE	6.91	84	8551	0.28	PPBV	81
26) 3-CHLOROPROPENE	7.01	76	3068	0.22	PPBV #	71
27) FREON 113	7.12	151	11814	0.23	PPBV	86
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	7845	0.25	PPBV #	71
29) TERTIARY BUTYL ALCOHOL	7.04	59	8297	0.33	PPBV #	1
30) METHYL TERTIARY BUTYL ETHE	7.99	73	16704	0.22	PPBV	94
31) TETRAHYDROFURAN	9.36	42	6086	0.22	PPBV	97
32) HEXANE	8.74	57	12038	0.24	PPBV	93
33) VINYL ACETATE	8.01	86	1232	0.17	PPBV #	95
34) 1,1-DICHLOROETHANE	7.87	63	12605	0.23	PPBV	98
35) METHYL ETHYL KETONE	8.30	72	2545	0.19	PPBV #	76
36) cis-1,2-DICHLOROETHYLENE	8.59	96	8158	0.24	PPBV #	76
37) ETHYL ACETATE	8.82	61	1453	0.20	PPBV	95
38) CHLOROFORM	8.84	83	12967	0.23	PPBV	98
39) 2,4-DIMETHYLPENTANE	9.52	57	13469	0.24	PPBV	97
40) 1,1,1-TRICHLOROETHANE	9.73	97	12849	0.23	PPBV	95
41) CARBON TETRACHLORIDE	10.29	117	13069	0.22	PPBV	98
42) 1,2-DICHLOROETHANE	9.51	62	7432	0.23	PPBV	97
44) BENZENE	10.16	78	21717	0.22	PPBV	97
45) CYCLOHEXANE	10.40	84	10562	0.24	PPBV #	1

(#) = qualifier out of range (m) = manual integration
W19112.D MW816.M Tue Dec 09 10:33:39 2008 MSW

6.7.1 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:37:33 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:37:30 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.1

6

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	2,3-DIMETHYLPENTANE	10.59	71	5092	0.22 PPBV	94
47)	TRICHLOROETHYLENE	11.12	95	8450	0.22 PPBV	90
48)	1,2-DICHLOROPROPANE	10.91	63	7684	0.23 PPBV	96
49)	BROMODICHLOROMETHANE	11.09	83	12332	0.22 PPBV	98
50)	2,2,4-TRIMETHYLPENTANE	11.13	57	33732	0.24 PPBV	99
51)	1,4-DIOXANE	11.29	88	2691	0.18 PPBV #	77
52)	METHYL METHACRYLATE	11.33	69	5313	0.18 PPBV #	1
53)	HEPTANE	11.36	43	12758	0.25 PPBV	93
55)	METHYL ISOBUTYL KETONE	12.05	43	9904	0.20 PPBV	99
56)	cis-1,3-DICHLOROPROPENE	11.94	75	9866	0.21 PPBV	91
57)	TOLUENE	12.90	92	14022	0.21 PPBV	99
58)	trans-1,3-DICHLOROPROPENE	12.44	75	8812	0.20 PPBV	92
59)	1,1,2-TRICHLOROETHANE	12.63	83	6038	0.21 PPBV	96
61)	2-HEXANONE	13.22	43	8758	0.21 PPBV	98
62)	TETRACHLOROETHYLENE	14.04	164	8501	0.21 PPBV	94
63)	DIBROMOCHLOROMETHANE	13.34	129	10749	0.20 PPBV	99
64)	1,2-DIBROMOETHANE	13.59	107	9714	0.20 PPBV #	99
65)	OCTANE	13.85	43	14696	0.23 PPBV	92
66)	CHLOROBENZENE	14.75	112	17511	0.22 PPBV #	80
67)	ETHYLBENZENE	15.13	91	25954	0.20 PPBV	99
68)	m,p-XYLENE	15.32	106	20064	0.40 PPBV	93
69)	o-XYLENE	15.83	106	9581	0.20 PPBV	92
70)	STYRENE	15.72	104	12592	0.17 PPBV	95
71)	NONANE	16.03	43	12718	0.22 PPBV	98
72)	BROMOFORM	15.43	173	8725	0.18 PPBV	100
74)	1,1,2,2-TETRACHLOROETHANE	15.84	83	11062	0.20 PPBV	99
75)	ISOPROPYLBENZENE	16.47	105	24644	0.20 PPBV	98
76)	2-CHLOROTOLUENE	17.01	91	16602	0.20 PPBV	97
77)	4-ETHYLTOLUENE	17.20	105	21109	0.18 PPBV	98
78)	1,3,5-TRIMETHYLBENZENE	17.28	105	19047	0.19 PPBV	96
79)	1,2,4-TRIMETHYLBENZENE	17.74	105	17044	0.18 PPBV	98
80)	m-DICHLOROBENZENE	17.92	146	11556	0.18 PPBV	96
81)	BENZYL CHLORIDE	17.91	91	10308	0.15 PPBV	98
82)	p-DICHLOROBENZENE	18.00	146	10798	0.18 PPBV	96
83)	o-DICHLOROBENZENE	18.39	146	10000	0.18 PPBV	98
84)	HEXACHLOROBUTADIENE	20.81	225	3857	0.19 PPBV	98
85)	1,2,4-TRICHLOROBENZENE	20.31	180	2349	0.13 PPBV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

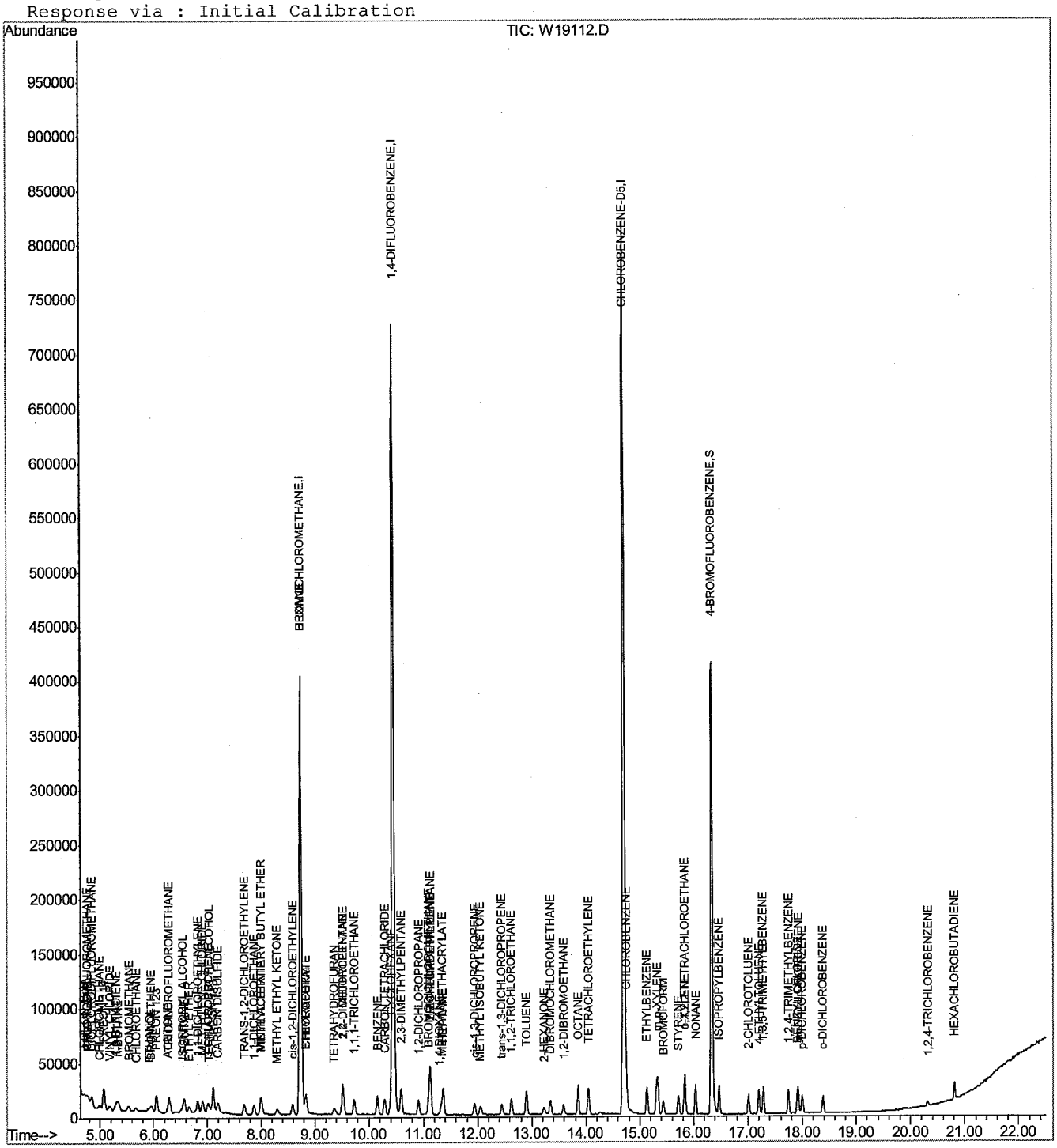
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:54 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00

Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



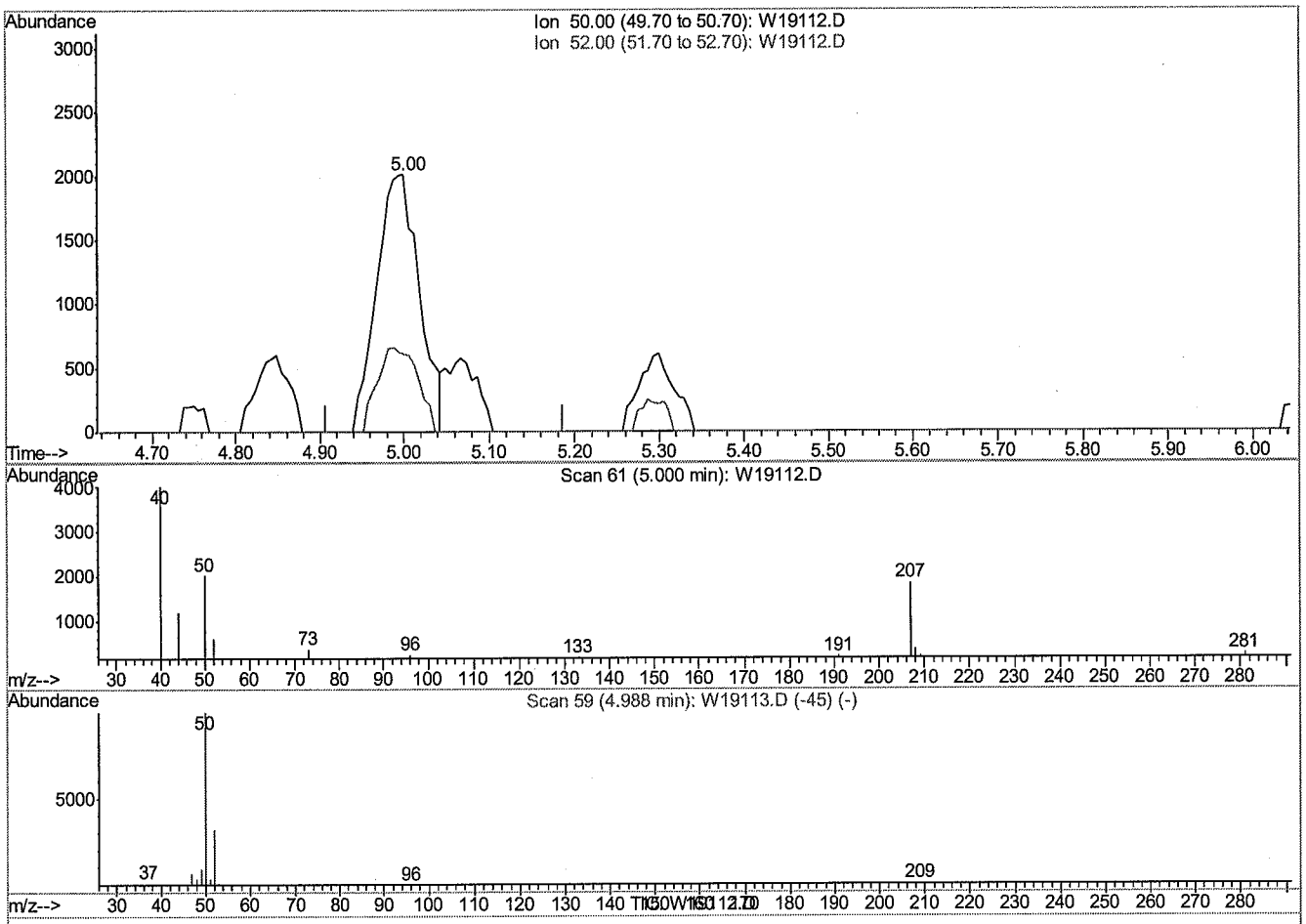
ACCUTEST Laboratories JA8427

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:54 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(8) CHLOROMETHANE

5.00min 0.22PPBV m

response 7084

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	30.37
0.00	0.00	0.00
0.00	0.00	0.00

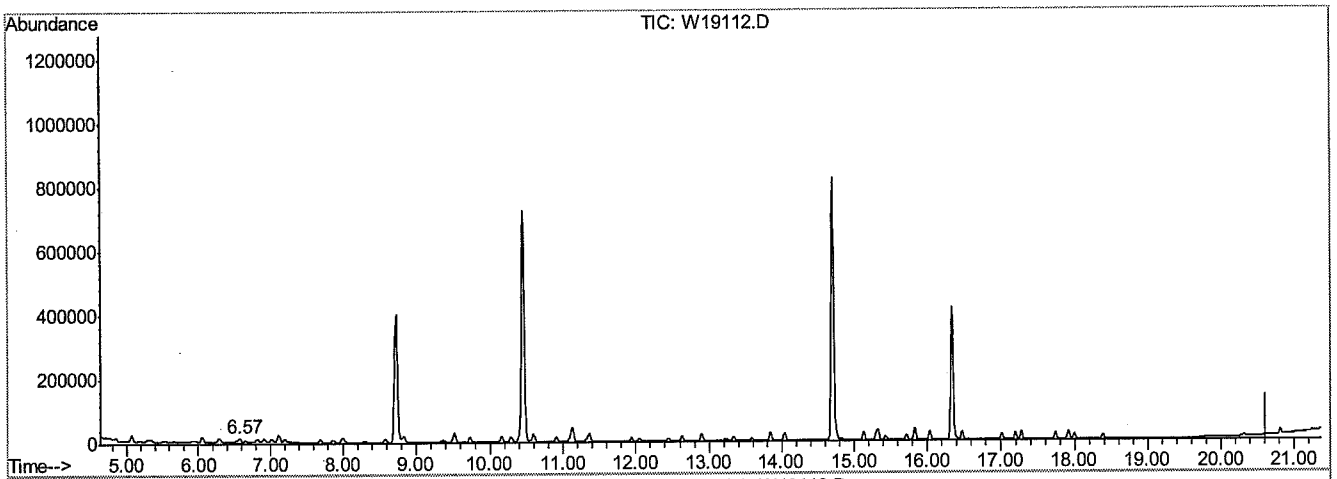
W19112.D MW816.M Tue Dec 09 10:34:03 2008 MSW

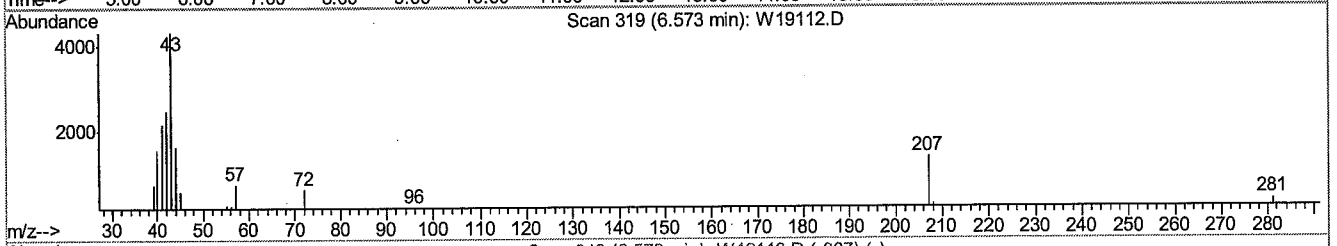
Quantitation Report (Qedit)

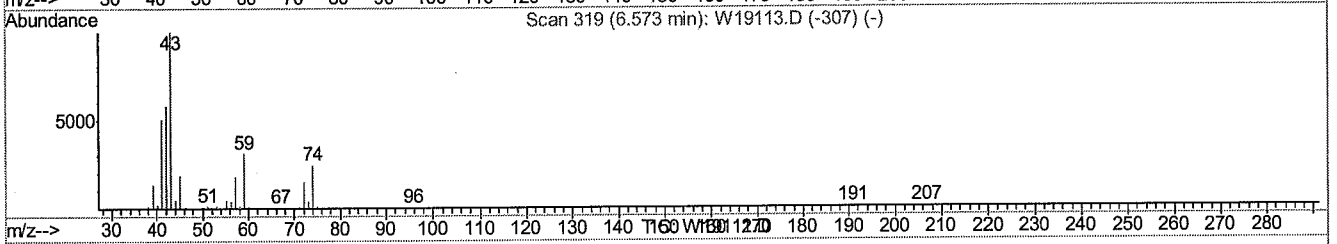
Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:54 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 0.00PPBV m

response 49001

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

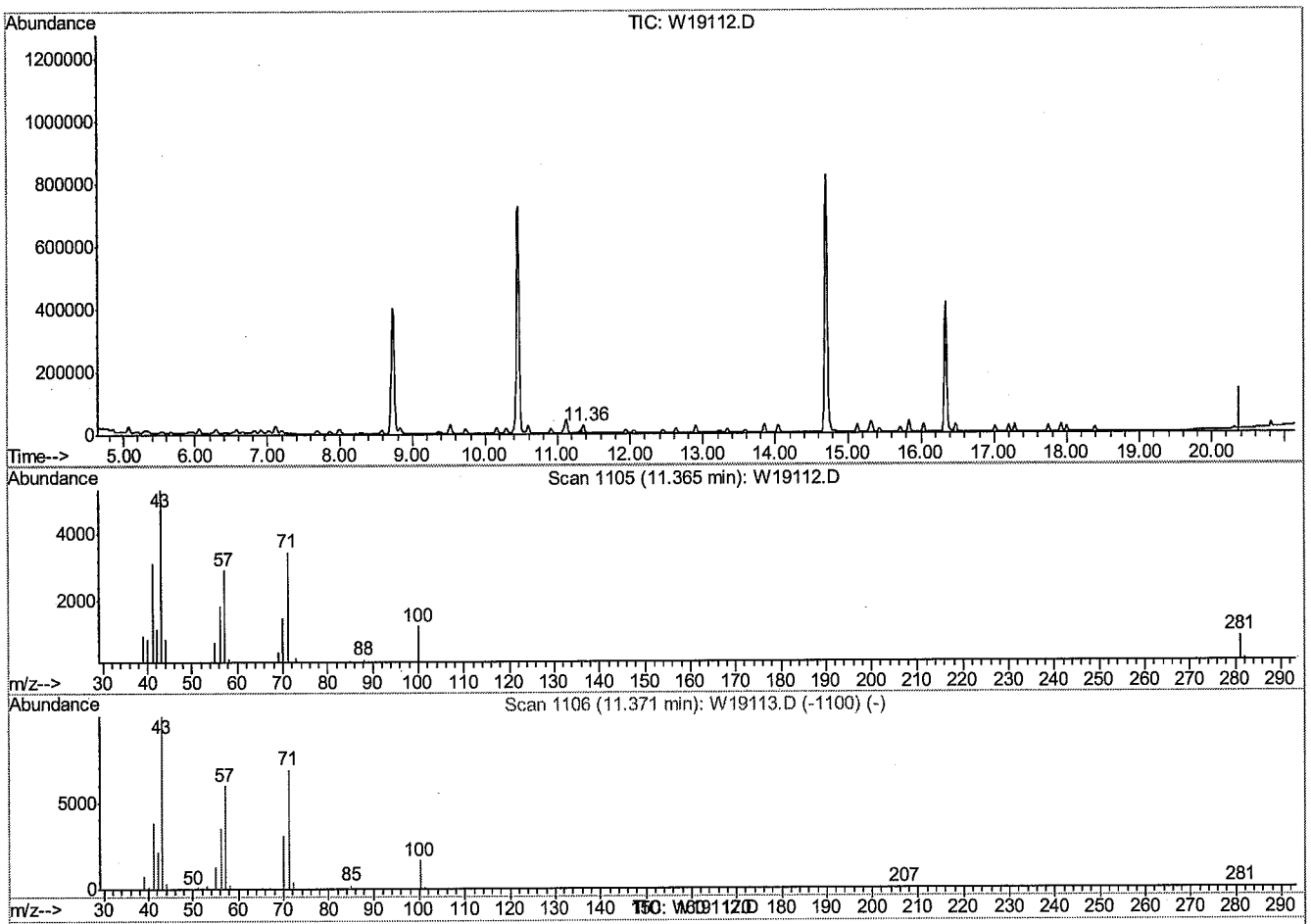
W19112.D MW816.M Wed Dec 10 09:13:03 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19112.D
Acq On : 8 Dec 2008 9:32 pm
Sample : IC816-0.2
Misc : MS49009,VW816,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:54 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.36min 0.00PPBV m

response 56159

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19112.D MW816.M Wed Dec 10 09:13:07 2008 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/12/08 13:08

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:34:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:34:51 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	173198	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.46	114	862824	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	765413	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.35	95	259180	5.18	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 103.60%			
Target Compounds						Qvalue
3) FREON 152A	4.70	65	180857	8.96	PPBV	90
4) CHLORODIFLUOROMETHANE	4.74	67	60633	9.14	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.84	85	690354	9.23	PPBV	98
6) PROPYLENE	4.77	41	221392	7.84	PPBV	97
7) FREON 114	5.07	85	841677	9.32	PPBV	94
8) CHLOROMETHANE	4.99	50	274627m	7.33	PPBV	
9) VINYL CHLORIDE	5.18	62	327066	9.24	PPBV	99
10) 1,3-BUTADIENE	5.29	54	254816	9.37	PPBV	90
11) n-BUTANE	5.34	43	504423	8.97	PPBV	96
12) BROMOMETHANE	5.52	94	275283	9.25	PPBV	99
13) CHLOROETHANE	5.66	64	185017	9.26	PPBV	97
14) FREON 123	6.05	85	452175	9.39	PPBV	98
15) TRICHLOROFLUOROMETHANE	6.29	101	723606	9.30	PPBV	99
16) ISOPROPYL ALCOHOL	6.41	45	381596	9.56	PPBV	98
17) ACETONE	6.18	58	137644	9.35	PPBV #	74
18) PENTANE	6.57	42	287655	8.40	PPBV	96
19) TVHC as EQUIV PENTANE	6.57	TIC	1917252m	0.14	PPBV	
20) ETHYL ETHER	6.59	74	159736	9.57	PPBV	86
21) 1,1-DICHLOROETHYLENE	6.81	96	319132	8.67	PPBV #	77
22) CARBON DISULFIDE	7.20	76	911960	9.21	PPBV	94
23) ETHANOL	5.81	45	102642	8.47	PPBV	99
24) BROMOETHENE	5.96	106	274168	9.25	PPBV #	98
25) METHYLENE CHLORIDE	6.90	84	282198	8.35	PPBV	82
26) 3-CHLOROPROPENE	7.00	76	143463	9.57	PPBV #	44
27) FREON 113	7.11	151	530205	9.44	PPBV	85
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	298603	8.88	PPBV #	87
29) TERTIARY BUTYL ALCOHOL	6.91	59	377287	13.92	PPBV #	15
30) METHYL TERTIARY BUTYL ETHE	7.93	73	759867	9.48	PPBV	94
31) TETRAHYDROFURAN	9.26	42	293323	9.64	PPBV	87
32) HEXANE	8.74	57	520891	9.17	PPBV	90
33) VINYL ACETATE	7.97	86	78285	10.61	PPBV #	49
34) 1,1-DICHLOROETHANE	7.87	63	563926	9.35	PPBV	99
35) METHYL ETHYL KETONE	8.23	72	135304	9.98	PPBV #	71
36) cis-1,2-DICHLOROETHYLENE	8.58	96	327120	9.01	PPBV #	87
37) ETHYL ACETATE	8.78	61	76655	9.93	PPBV #	16
38) CHLOROFORM	8.85	83	578724	9.36	PPBV	96
39) 2,4-DIMETHYLPENTANE	9.53	57	612161	9.32	PPBV	97
40) 1,1,1-TRICHLOROETHANE	9.74	97	585262	9.44	PPBV	96
41) CARBON TETRACHLORIDE	10.29	117	607007	9.49	PPBV	99
42) 1,2-DICHLOROETHANE	9.51	62	337302	9.47	PPBV	97
44) BENZENE	10.16	78	991240	9.44	PPBV	97

(#) = qualifier out of range (m) = manual integration
W19113.D MW816.M Tue Dec 09 10:33:42 2008 MSW

6.7.2
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:34:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:34:51 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.2 6

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45) CYCLOHEXANE	10.41	84	448245	9.12	PPBV		87
46) 2,3-DIMETHYLPENTANE	10.60	71	243146	9.53	PPBV		86
47) TRICHLOROETHYLENE	11.13	95	411223	9.69	PPBV		88
48) 1,2-DICHLOROPROPANE	10.91	63	346743	9.41	PPBV		98
49) BROMODICHLOROMETHANE	11.10	83	607652	9.70	PPBV		100
50) 2,2,4-TRIMETHYLPENTANE	11.14	57	1579193	9.38	PPBV		98
51) 1,4-DIOXANE	11.18	88	146603	9.92	PPBV	#	80
52) METHYL METHACRYLATE	11.31	69	303882	10.23	PPBV		85
53) HEPTANE	11.37	43	557368	9.18	PPBV		86
54) TVHC as EQUIV HEPTANE	11.37	TIC	2449051m	0.18	PPBV		
55) METHYL ISOBUTYL KETONE	12.00	43	527023	9.78	PPBV		90
56) cis-1,3-DICHLOROPROPENE	11.94	75	505630	9.89	PPBV		99
57) TOLUENE	12.91	92	702213	9.82	PPBV		97
58) trans-1,3-DICHLOROPROPENE	12.45	75	488257	10.18	PPBV		91
59) 1,1,2-TRICHLOROETHANE	12.64	83	308127	9.87	PPBV		97
61) 2-HEXANONE	13.18	43	477538	9.53	PPBV		90
62) TETRACHLOROETHYLENE	14.05	164	437306	9.63	PPBV		94
63) DIBROMOCHLOROMETHANE	13.35	129	606160	9.92	PPBV		100
64) 1,2-DIBROMOETHANE	13.60	107	540975	9.92	PPBV		100
65) OCTANE	13.85	43	745219	9.32	PPBV	#	87
66) CHLOROBENZENE	14.75	112	871559	9.51	PPBV		93
67) ETHYLBENZENE	15.14	91	1442467	9.84	PPBV		97
68) m,p-XYLENE	15.33	106	1163591	19.99	PPBV		90
69) o-XYLENE	15.84	106	570142	10.11	PPBV		90
70) STYRENE	15.72	104	874487	10.63	PPBV		95
71) NONANE	16.04	43	696129	9.58	PPBV		90
72) BROMOFORM	15.44	173	575462	10.52	PPBV		99
74) 1,1,2,2-TETRACHLOROETHANE	15.84	83	673626	10.14	PPBV		99
75) ISOPROPYLBENZENE	16.48	105	1473706	10.07	PPBV		97
76) 2-CHLOROTOLUENE	17.02	91	1001491	10.11	PPBV		95
77) 4-ETHYLTOLUENE	17.20	105	1413850	10.48	PPBV		97
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	1206915	10.33	PPBV		95
79) 1,2,4-TRIMETHYLBENZENE	17.74	105	1136638	10.51	PPBV		95
80) m-DICHLOROBENZENE	17.92	146	766444	10.57	PPBV		98
81) BENZYL CHLORIDE	17.91	91	874212	11.27	PPBV		96
82) p-DICHLOROBENZENE	18.00	146	720776	10.63	PPBV		98
83) o-DICHLOROBENZENE	18.39	146	642130	10.40	PPBV		98
84) HEXACHLOROBUTADIENE	20.81	225	234952	10.08	PPBV		100
85) 1,2,4-TRICHLOROBENZENE	20.31	180	219674	11.44	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19113.D MW816.M Tue Dec 09 10:33:42 2008 MSW

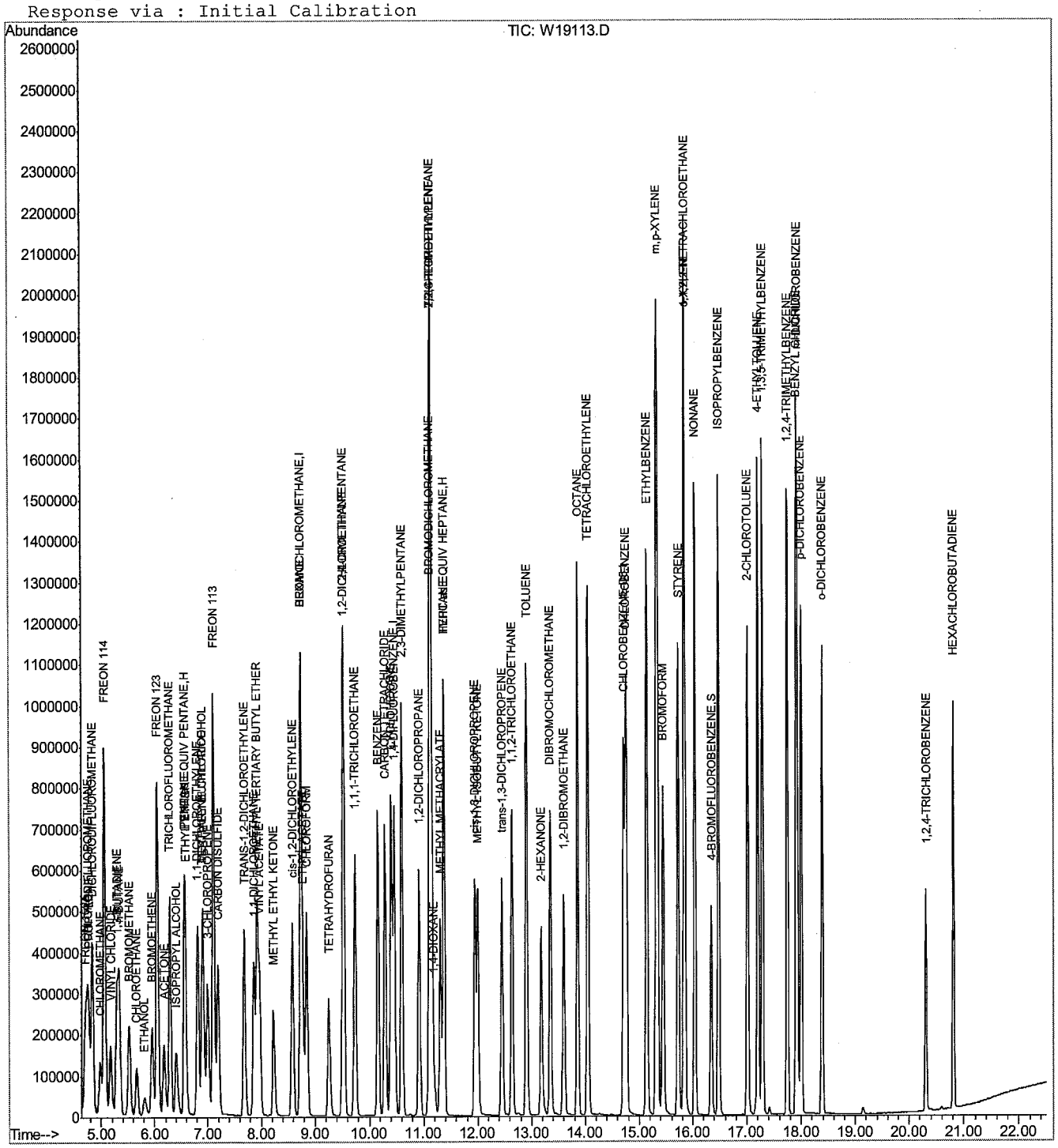
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:55 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



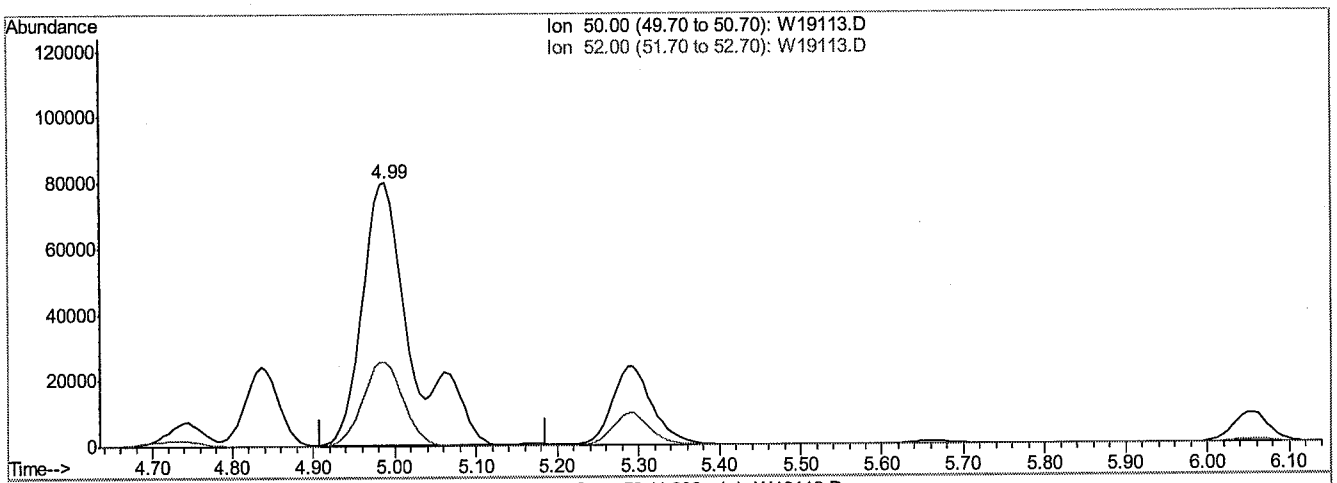
ACCUTEST Laboratories JA8427

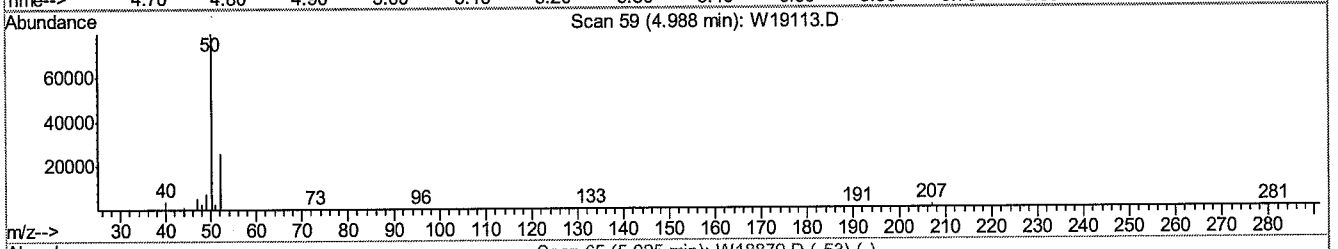
Quantitation Report (Qedit)

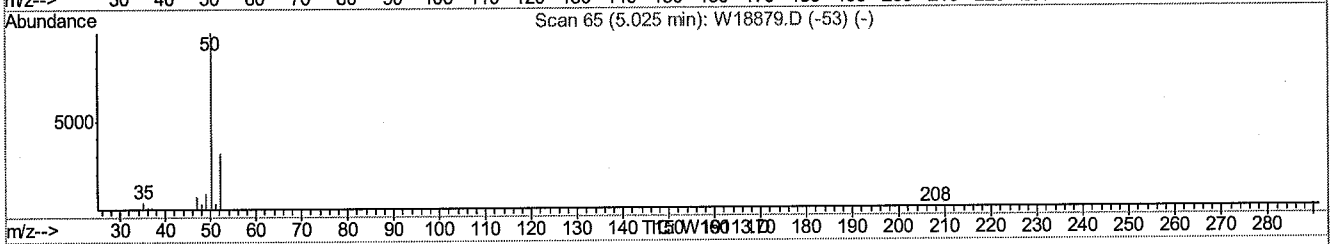
Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:54 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.99min 8.84PPBV

response 331419

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	31.91
0.00	0.00	0.00
0.00	0.00	0.00

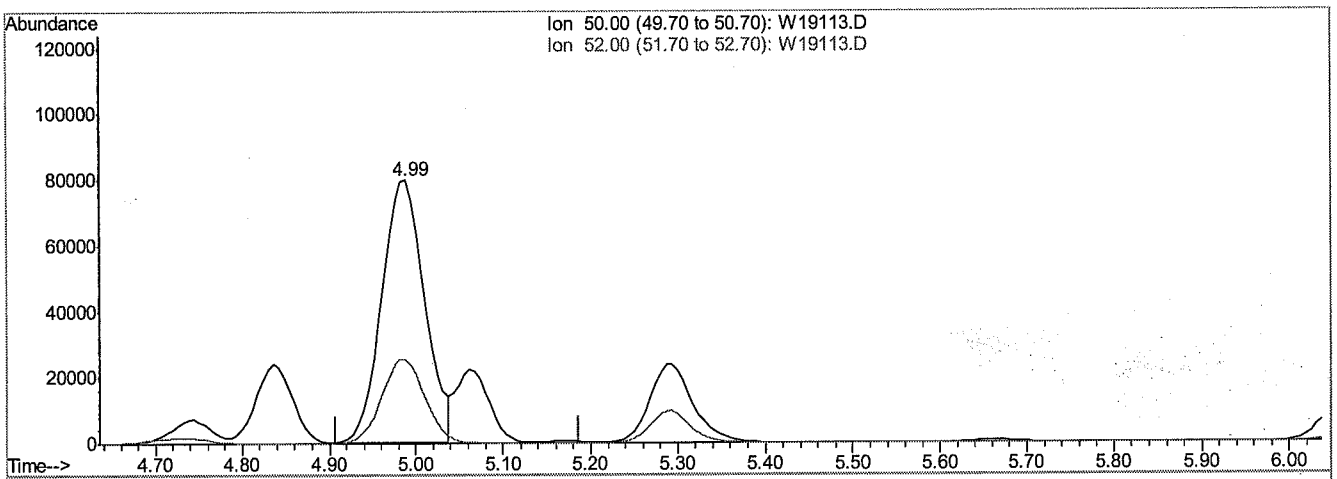
W19113.D MW816.M Tue Dec 09 08:54:42 2008 MSW

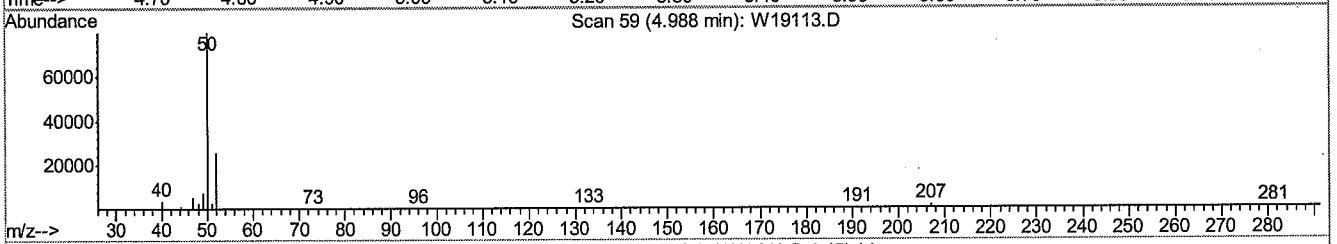
Quantitation Report (Qedit)

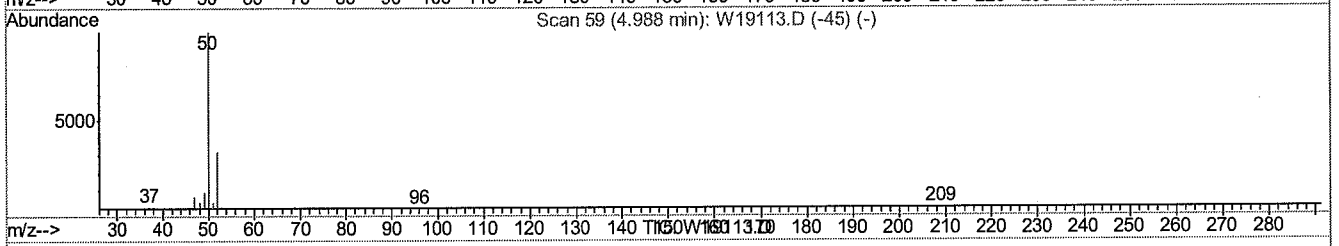
Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:55 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.99min 7.33PPBV m

response 274627

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	31.81
0.00	0.00	0.00
0.00	0.00	0.00

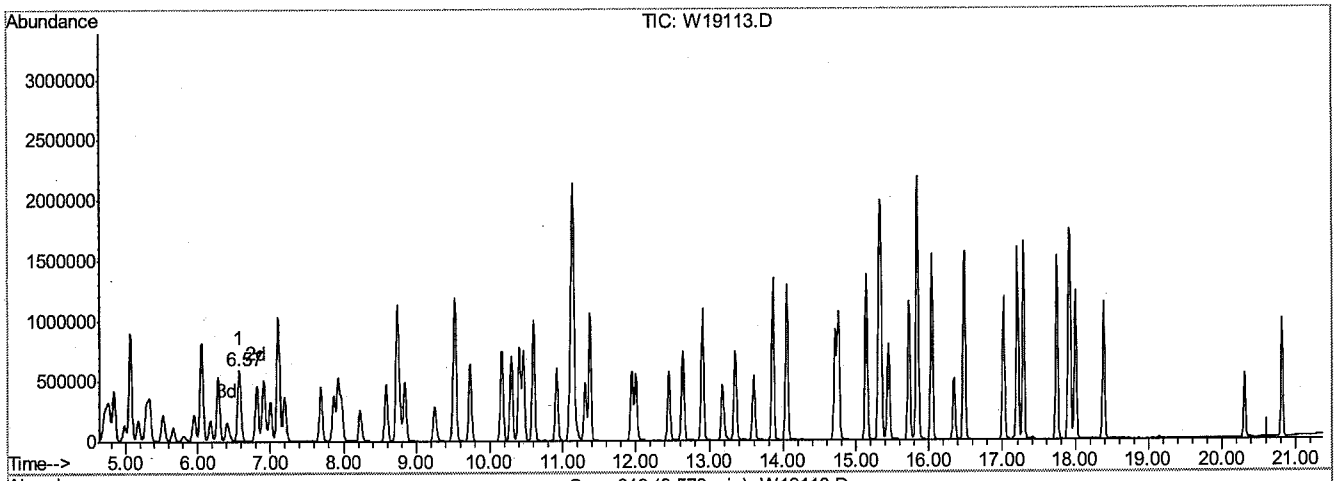
W19113.D MW816.M Wed Dec 10 09:12:46 2008 MSW

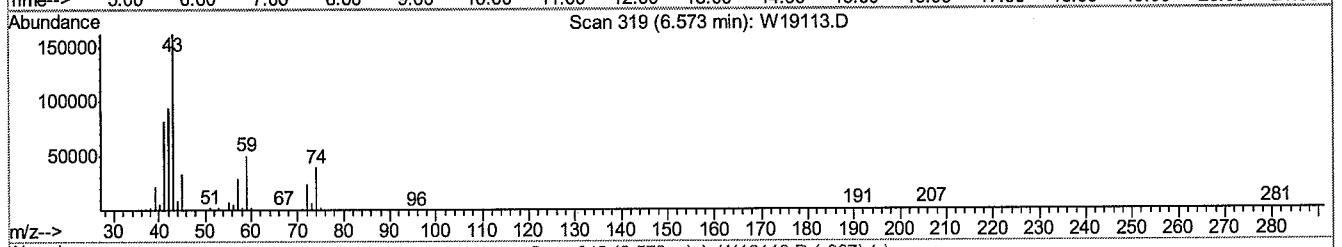
Quantitation Report (Qedit)

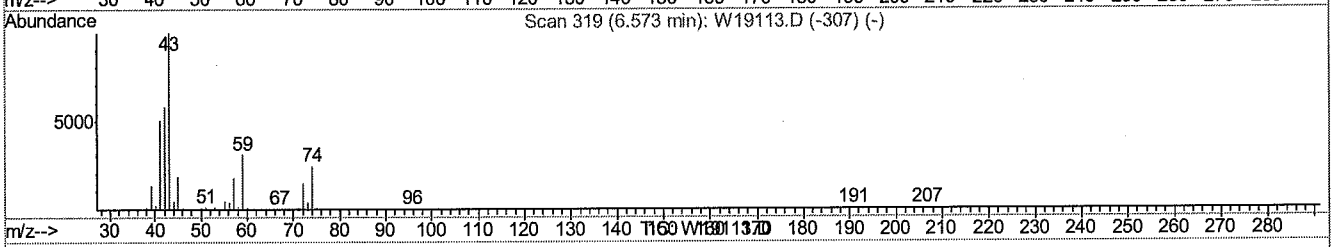
Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:55 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 0.14PPBV m

response 1917252

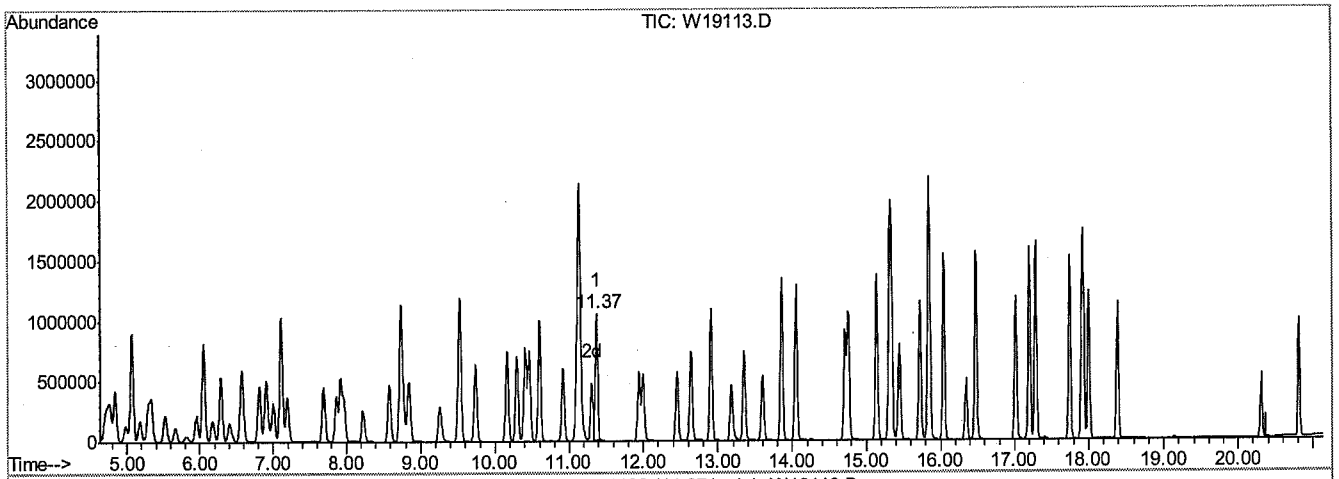
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

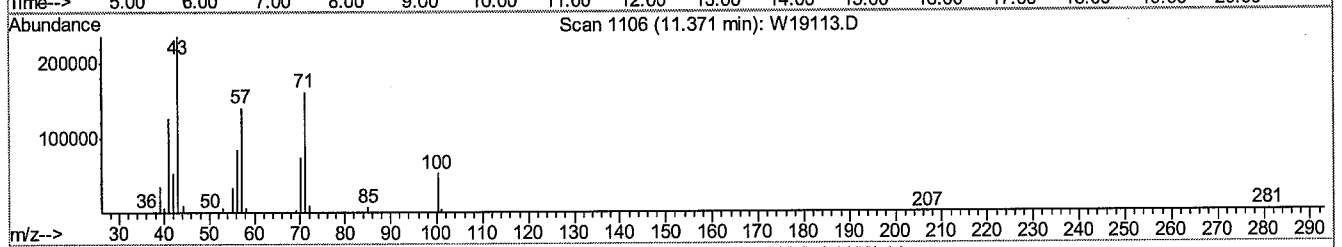
Quantitation Report (Qedit)

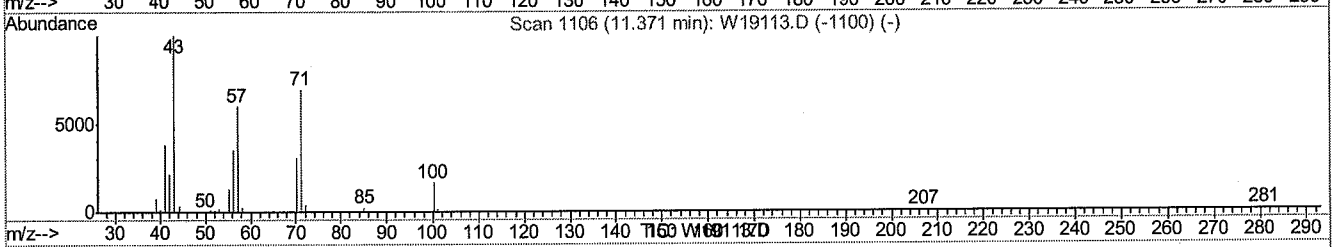
Data File : C:\MSDCHEM\1\DATA\W19113.D
Acq On : 8 Dec 2008 10:12 pm
Sample : ICC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:55 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.37min 0.18PPBV m

response 2449051

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19113.D MW816.M Wed Dec 10 09:13:16 2008 MSW

ACCUTEST Laboratories JA8427

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/12/08 13:06

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:15 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:08 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	178629	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	869544	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	726598	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	231841	4.89	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 97.80%			
Target Compounds						Qvalue
3) FREON 152A	4.70	65	17504	0.84	PPBV	97
4) CHLORODIFLUOROMETHANE	4.74	67	5937	0.87	PPBV	97
5) DICHLORODIFLUOROMETHANE	4.84	85	66450	0.86	PPBV	98
6) PROPYLENE	4.77	41	22720	0.78	PPBV	98
7) FREON 114	5.06	85	79951	0.86	PPBV	93
8) CHLOROMETHANE	4.98	50	26531m	0.69	PPBV	
9) VINYL CHLORIDE	5.18	62	31680	0.87	PPBV	100
10) 1,3-BUTADIENE	5.29	54	23635	0.84	PPBV	93
11) n-BUTANE	5.34	43	46968	0.81	PPBV #	90
12) BROMOMETHANE	5.52	94	26841	0.87	PPBV	93
13) CHLOROETHANE	5.66	64	17828	0.87	PPBV	95
14) FREON 123	6.05	85	43383	0.87	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.29	101	69215	0.86	PPBV	99
16) ISOPROPYL ALCOHOL	6.47	45	36999m	0.90	PPBV	
17) ACETONE	6.23	58	13806	0.91	PPBV #	75
18) PENTANE	6.57	42	25969	0.74	PPBV	94
20) ETHYL ETHER	6.62	74	15363	0.89	PPBV	87
21) 1,1-DICHLOROETHYLENE	6.81	96	32952	0.87	PPBV #	69
22) CARBON DISULFIDE	7.20	76	88645	0.87	PPBV	96
23) ETHANOL	5.87	45	10342	0.83	PPBV	98
24) BROMOETHENE	5.96	106	27080	0.89	PPBV #	99
25) METHYLENE CHLORIDE	6.90	84	29715	0.85	PPBV	80
26) 3-CHLOROPROPENE	7.00	76	13638	0.88	PPBV #	56
27) FREON 113	7.11	151	50488	0.87	PPBV	86
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	31015	0.89	PPBV #	78
29) TERTIARY BUTYL ALCOHOL	6.98	59	38034	1.38	PPBV #	1
30) METHYL TERTIARY BUTYL ETHE	7.96	73	76012	0.92	PPBV	95
31) TETRAHYDROFURAN	9.32	42	27585	0.88	PPBV	85
32) HEXANE	8.74	57	49193	0.84	PPBV	91
33) VINYL ACETATE	7.99	86	7073	0.93	PPBV #	55
34) 1,1-DICHLOROETHANE	7.87	63	54395	0.87	PPBV	98
35) METHYL ETHYL KETONE	8.26	72	13139	0.94	PPBV #	71
36) cis-1,2-DICHLOROETHYLENE	8.58	96	30391	0.81	PPBV #	86
37) ETHYL ACETATE	8.80	61	7368	0.93	PPBV #	70
38) CHLOROFORM	8.84	83	54912	0.86	PPBV	97
39) 2,4-DIMETHYLPENTANE	9.52	57	57211	0.84	PPBV	97
40) 1,1,1-TRICHLOROETHANE	9.73	97	54520	0.85	PPBV	96
41) CARBON TETRACHLORIDE	10.29	117	56153	0.85	PPBV	98
42) 1,2-DICHLOROETHANE	9.51	62	31569	0.86	PPBV	97
44) BENZENE	10.15	78	93269	0.88	PPBV	97
45) CYCLOHEXANE	10.40	84	42415	0.86	PPBV #	84

(#) = qualifier out of range (m) = manual integration
W19114.D MW816.M Tue Dec 09 10:33:44 2008 MSW

6.7.3 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:15 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:08 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	2,3-DIMETHYLPENTANE	10.59	71	22120	0.86 PPBV		87
47)	TRICHLOROETHYLENE	11.12	95	36667	0.86 PPBV		89
48)	1,2-DICHLOROPROPANE	10.91	63	32313	0.87 PPBV		98
49)	BROMODICHLOROMETHANE	11.09	83	53953	0.85 PPBV		99
50)	2,2,4-TRIMETHYLPENTANE	11.13	57	146557	0.86 PPBV		98
51)	1,4-DIOXANE	11.24	88	14677	0.99 PPBV		87
52)	METHYL METHACRYLATE	11.31	69	27431	0.92 PPBV	#	1
53)	HEPTANE	11.36	43	50173	0.82 PPBV		87
55)	METHYL ISOBUTYL KETONE	12.02	43	48616	0.90 PPBV		93
56)	cis-1,3-DICHLOROPROPENE	11.94	75	44059	0.86 PPBV		89
57)	TOLUENE	12.90	92	61397	0.85 PPBV		99
58)	trans-1,3-DICHLOROPROPENE	12.44	75	40331	0.83 PPBV		92
59)	1,1,2-TRICHLOROETHANE	12.63	83	27111	0.86 PPBV		98
61)	2-HEXANONE	13.20	43	42932	0.90 PPBV		92
62)	TETRACHLOROETHYLENE	14.04	164	36527	0.85 PPBV		95
63)	DIBROMOCHLOROMETHANE	13.33	129	49464	0.85 PPBV		99
64)	1,2-DIBROMOETHANE	13.58	107	44584	0.86 PPBV		100
65)	OCTANE	13.85	43	63998	0.84 PPBV	#	89
66)	CHLOROBENZENE	14.75	112	75878	0.87 PPBV		98
67)	ETHYLBENZENE	15.13	91	122553	0.88 PPBV		98
68)	m,p-XYLENE	15.32	106	97170	1.76 PPBV		91
69)	o-XYLENE	15.83	106	46180	0.86 PPBV		92
70)	STYRENE	15.72	104	67275	0.86 PPBV		94
71)	NONANE	16.03	43	57489	0.83 PPBV		92
72)	BROMOFORM	15.43	173	42119	0.81 PPBV		98
74)	1,1,2,2-TETRACHLOROETHANE	15.83	83	51516	0.82 PPBV		99
75)	ISOPROPYLBENZENE	16.47	105	118949	0.86 PPBV		97
76)	2-CHLOROTOLUENE	17.01	91	76870	0.82 PPBV		96
77)	4-ETHYLTOLUENE	17.20	105	111773	0.87 PPBV		99
78)	1,3,5-TRIMETHYLBENZENE	17.28	105	96895	0.87 PPBV		96
79)	1,2,4-TRIMETHYLBENZENE	17.74	105	89108	0.87 PPBV		97
80)	m-DICHLOROBENZENE	17.92	146	55607	0.81 PPBV		98
81)	BENZYL CHLORIDE	17.90	91	57641	0.78 PPBV		97
82)	p-DICHLOROBENZENE	18.00	146	52430	0.81 PPBV		98
83)	o-DICHLOROBENZENE	18.39	146	47556	0.81 PPBV		97
84)	HEXACHLOROBUTADIENE	20.81	225	19357	0.88 PPBV		99
85)	1,2,4-TRICHLOROBENZENE	20.31	180	13472	0.74 PPBV		98

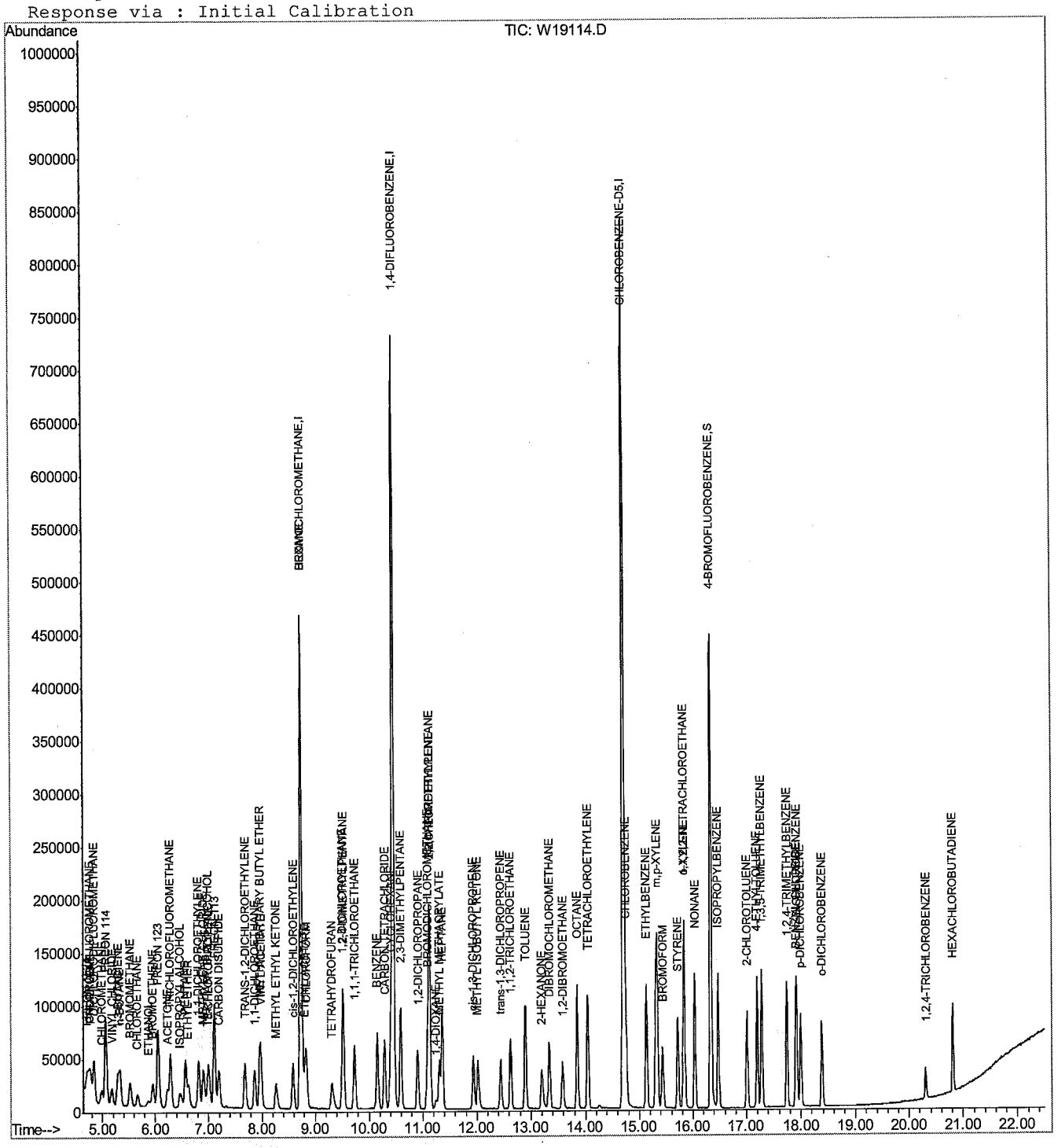
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19114.D MW816.M Tue Dec 09 10:33:44 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:57 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



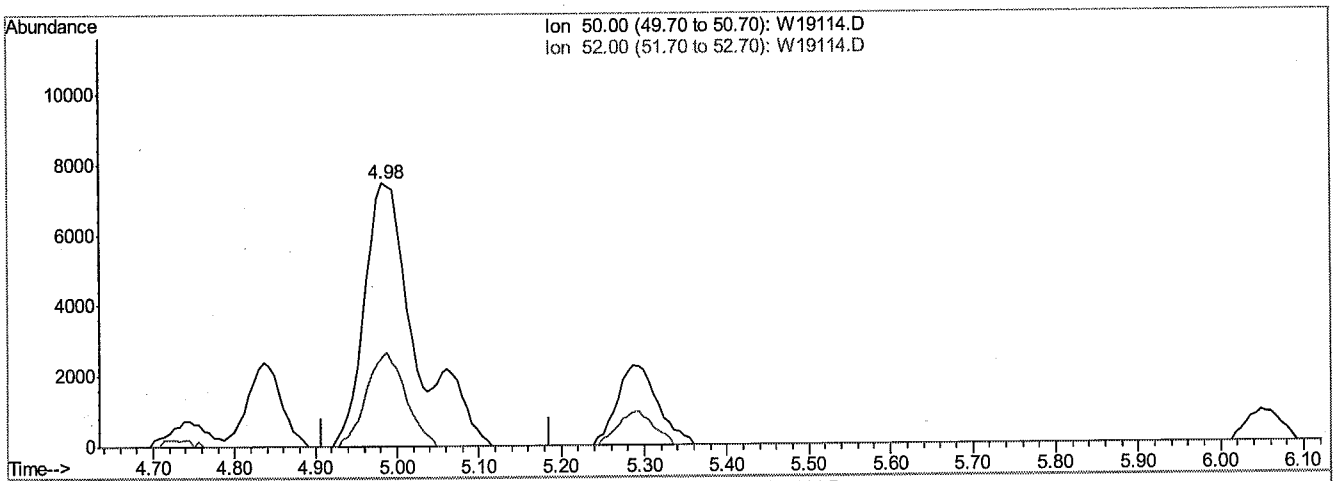
ACCUTEST Laboratories JA8427

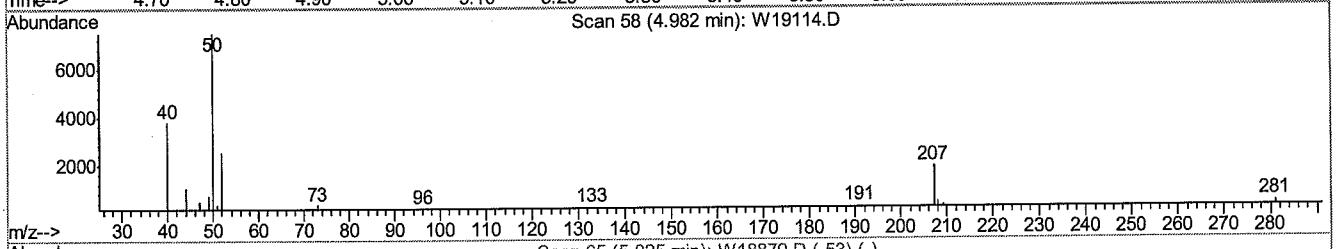
Quantitation Report (Qedit)

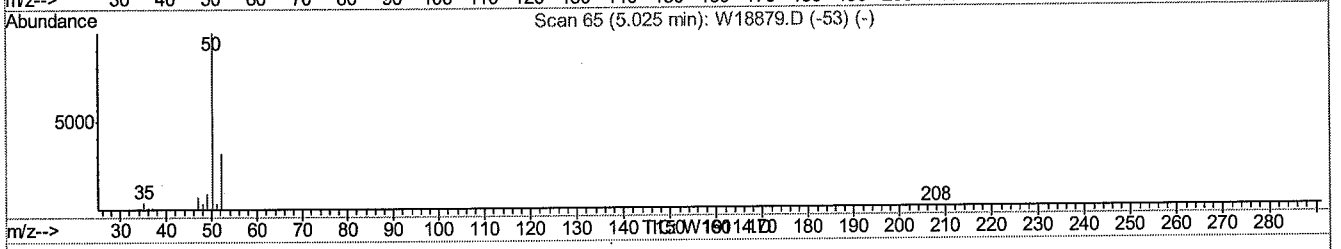
Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:55 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.98min 0.84PPBV

response 32307

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	34.00
0.00	0.00	0.00
0.00	0.00	0.00

W19114.D MW816.M Tue Dec 09 08:56:06 2008 MSW

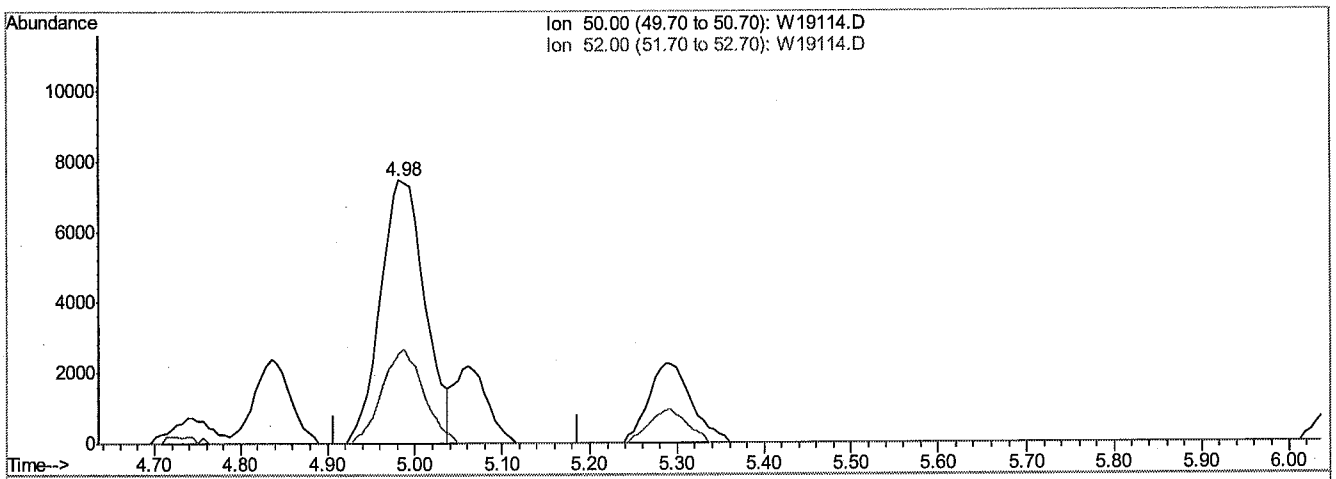
ACCUTEST. Laboratories JA8427

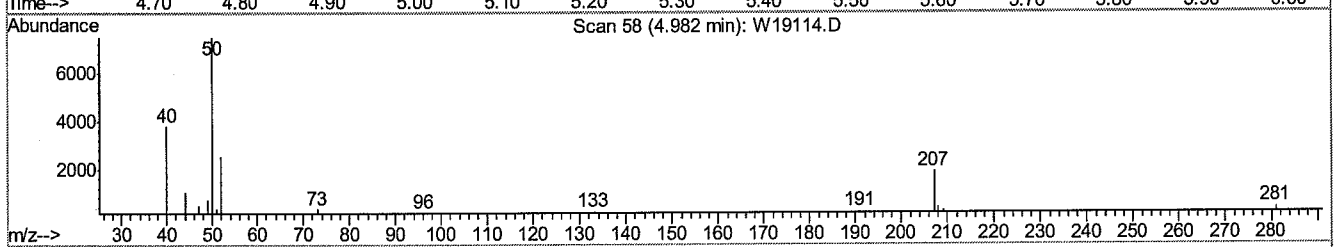
Quantitation Report (Qedit)

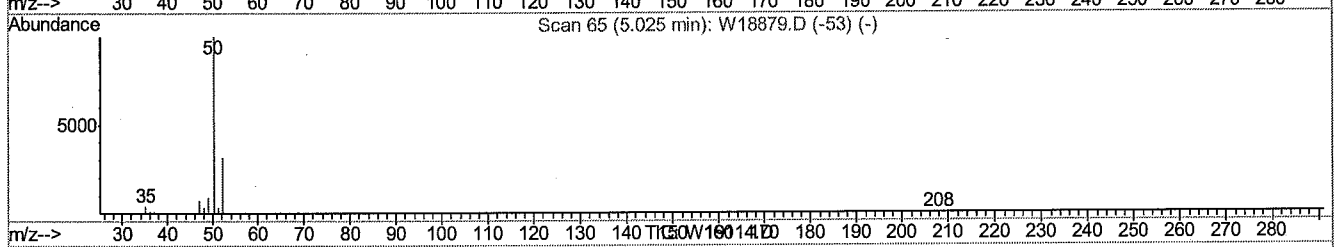
Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:56 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.98min 0.69PPBV m

response 26531

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	34.00
0.00	0.00	0.00
0.00	0.00	0.00

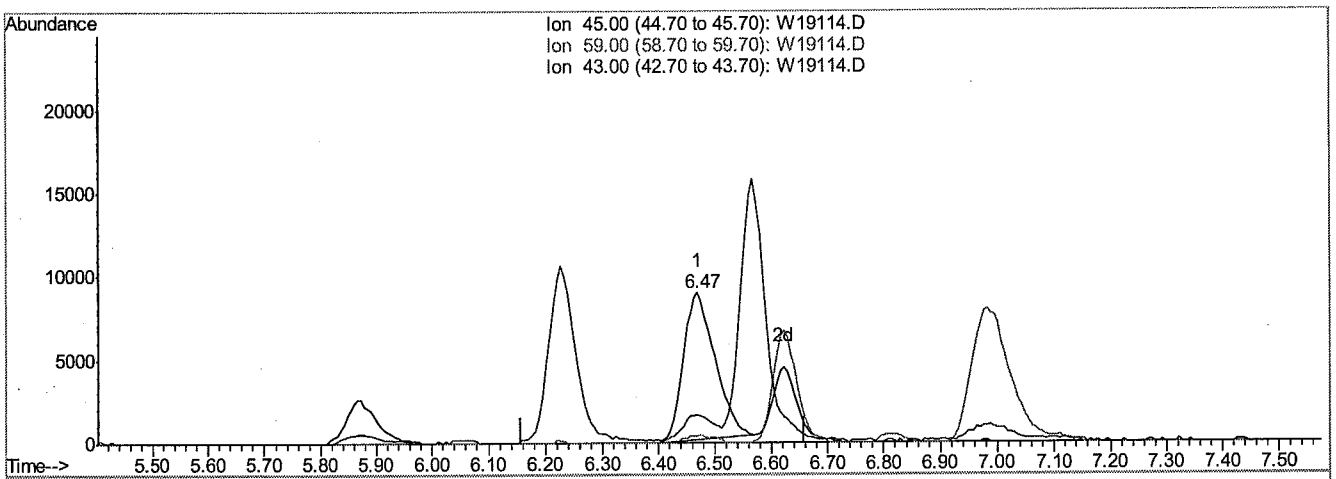
W19114.D MW816.M Tue Dec 09 08:56:16 2008 MSW

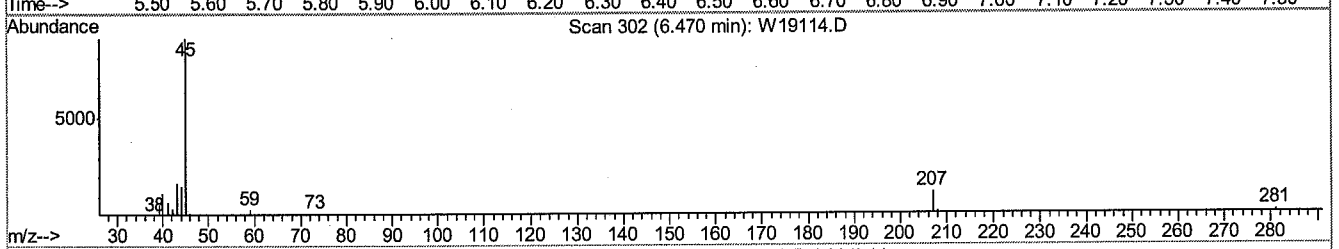
Quantitation Report (Qedit)

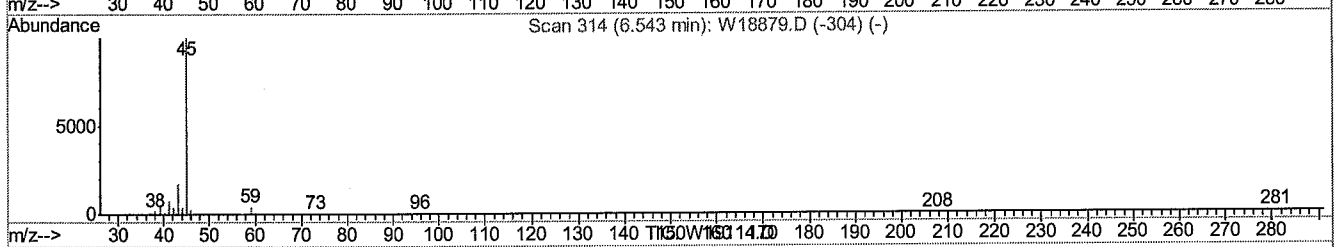
Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:56 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration







(16) ISOPROPYL ALCOHOL

6.47min 0.84PPBV

response 34617

Ion	Exp%	Act%
45.00	100	100
59.00	4.00	4.63
43.00	17.90	19.06
0.00	0.00	0.00

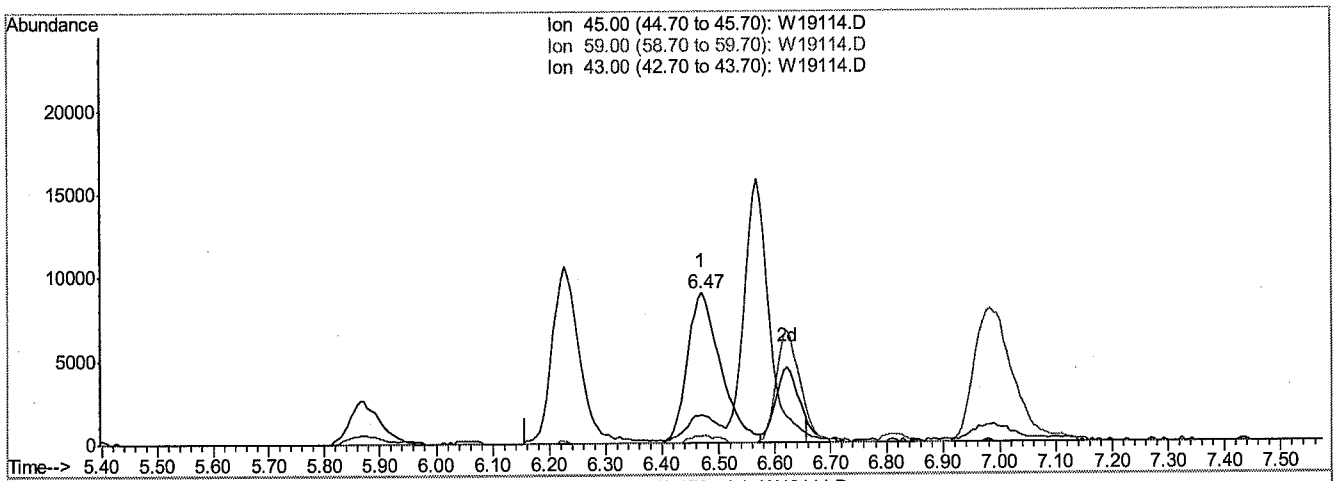
W19114.D MW816.M Tue Dec 09 08:56:27 2008 MSW

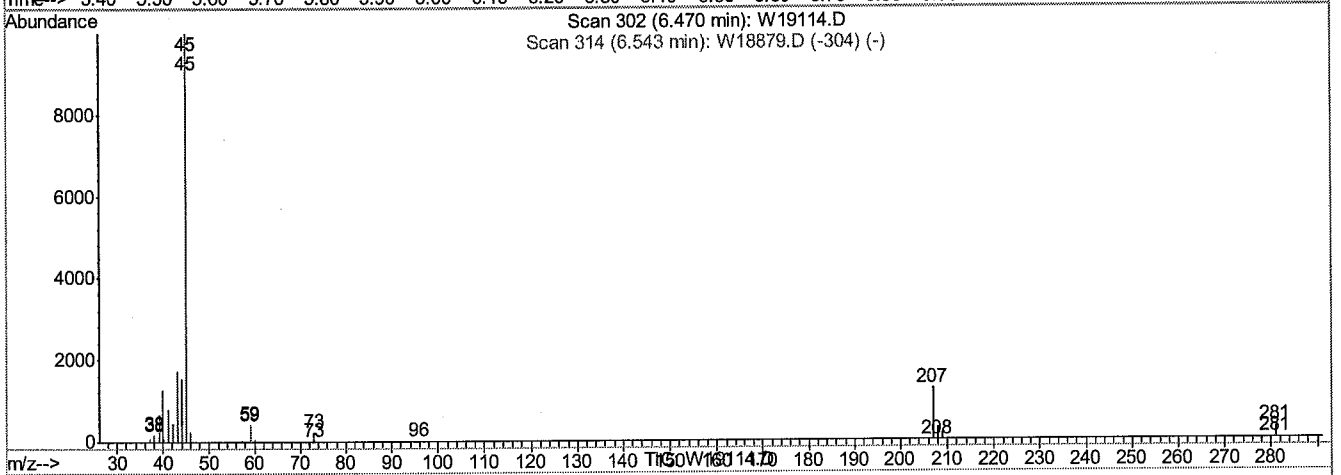
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:56 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration





(16) ISOPROPYL ALCOHOL

6.47min 0.90PPBV m

response 36999

Ion	Exp%	Act%
45.00	100	100
59.00	4.00	4.63
43.00	17.90	19.06
0.00	0.00	0.00

W19114.D MW816.M Tue Dec 09 08:56:33 2008 MSW

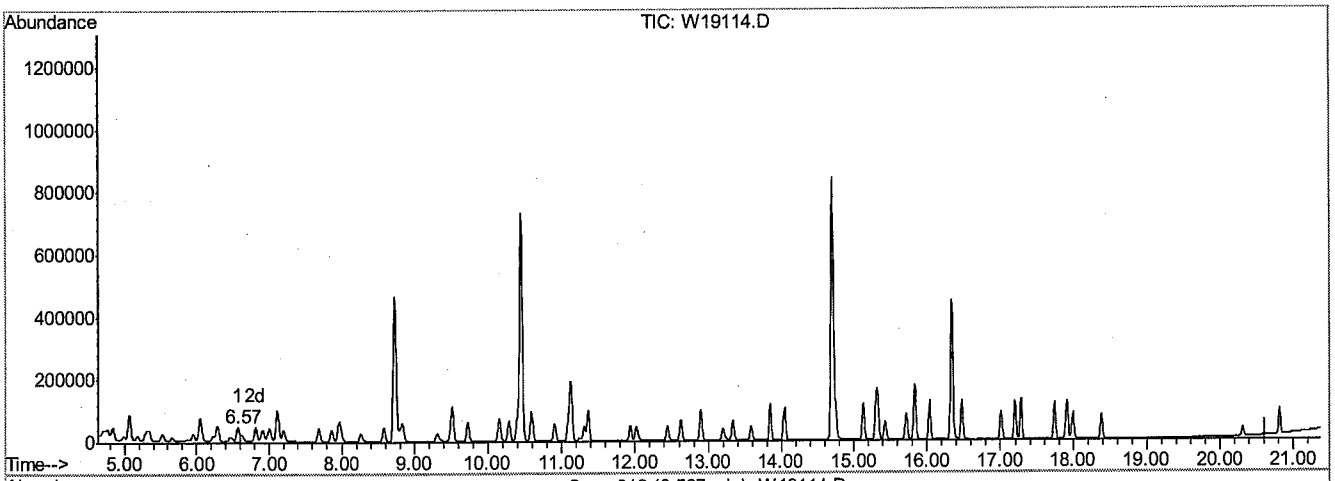
ACCUTEST Laboratories JA8427

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:57 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(19) TVHC as EQUIV PENTANE (H)

6.57min 0.01PPBV m

response 137714

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

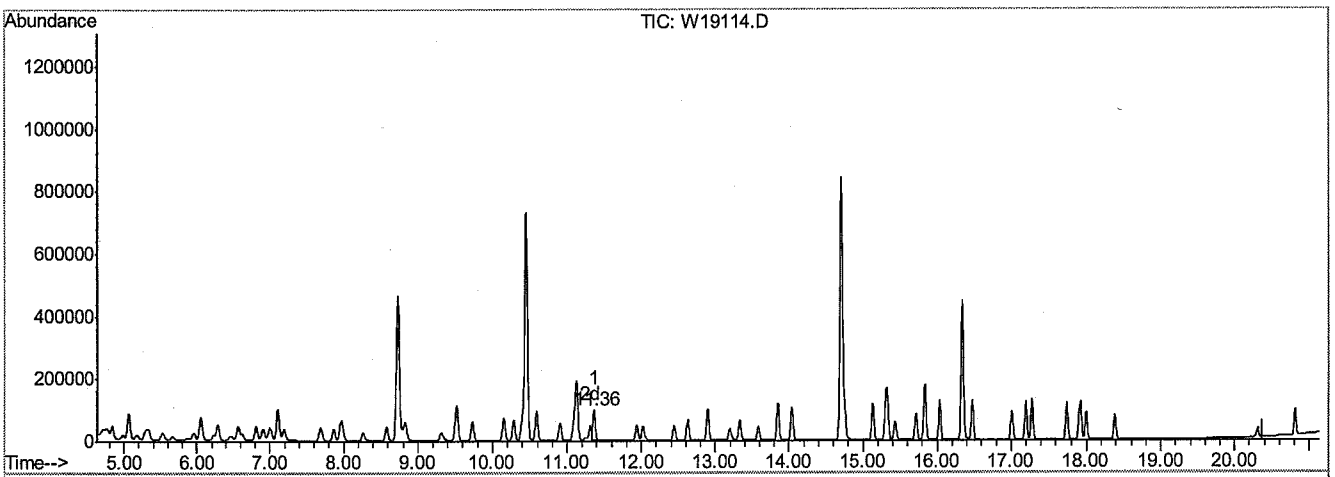
W19114.D MW816.M Wed Dec 10 09:13:53 2008 MSW

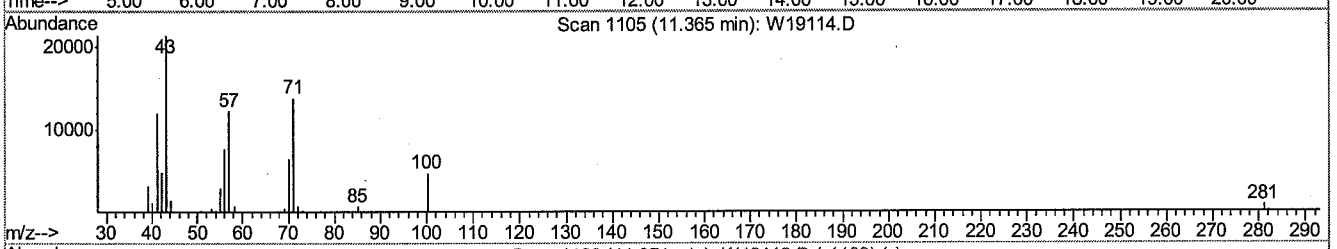
Quantitation Report (Qedit)

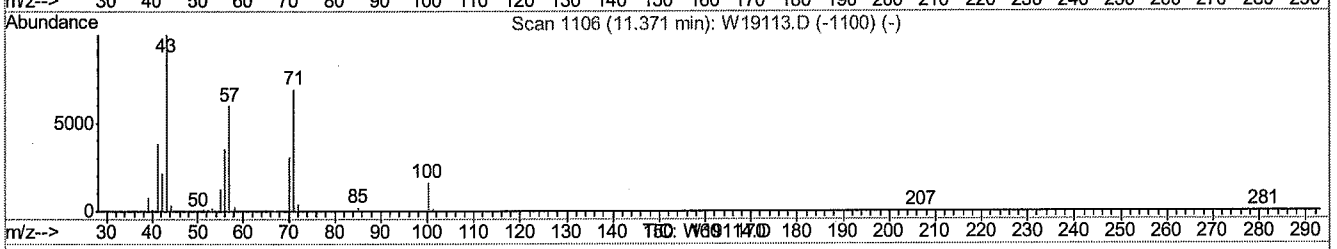
Data File : C:\MSDCHEM\1\DATA\W19114.D
Acq On : 8 Dec 2008 10:52 pm
Sample : IC816-1.0
Misc : MS49009,VW816,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:57 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.36min 0.02PPBV m

response 232732

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19114.D MW816.M Wed Dec 10 09:13:57 2008 MSW

Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/12/08 13:04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:33 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:26 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.4 9

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	182652	10.00	PPBV	0.01
43) 1,4-DIFLUOROBENZENE	10.47	114	909677	10.00	PPBV	0.02
60) CHLOROBENZENE-D5	14.72	117	827837	10.00	PPBV	0.00

System Monitoring Compounds

73) 4-BROMOFLUOROBENZENE	16.35	95	273372	5.08	PPBV	0.00

Spiked Amount 5.000 Range 78 - 124 Recovery = 101.60%

Target Compounds							Qvalue
3) FREON 152A	4.71	65	341699	16.72	PPBV	#	88
4) CHLORODIFLUOROMETHANE	4.74	67	114259	16.89	PPBV		100
5) DICHLORODIFLUOROMETHANE	4.84	85	1300904	17.09	PPBV		97
6) PROPYLENE	4.77	41	399092	14.18	PPBV		98
7) FREON 114	5.07	85	1614079	17.58	PPBV		92
8) CHLOROMETHANE	4.99	50	520685m	13.74	PPBV		
9) VINYL CHLORIDE	5.18	62	624902	17.31	PPBV		99
10) 1,3-BUTADIENE	5.29	54	474765	17.24	PPBV	#	88
11) n-BUTANE	5.34	43	909696	16.10	PPBV		95
12) BROMOMETHANE	5.53	94	538719	17.72	PPBV		99
13) CHLOROETHANE	5.67	64	354991	17.43	PPBV		96
14) FREON 123	6.06	85	865441	17.59	PPBV		98
15) TRICHLOROFLUOROMETHANE	6.29	101	1381278	17.43	PPBV		99
16) ISOPROPYL ALCOHOL	6.44	45	717225	17.75	PPBV		98
17) ACETONE	6.18	58	278146	18.34	PPBV	#	71
18) PENTANE	6.57	42	499354	14.81	PPBV		93
19) TVHC as EQUIV PENTANE	6.58	TIC	3532731m	0.26	PPBV		
20) ETHYL ETHER	6.59	74	310945	18.15	PPBV		83
21) 1,1-DICHLOROETHYLENE	6.82	96	616702	16.43	PPBV	#	74
22) CARBON DISULFIDE	7.19	76	1729929	17.13	PPBV		94
23) ETHANOL	5.82	45	203955	16.69	PPBV		99
24) BROMOETHENE	5.96	106	540549	17.80	PPBV	#	98
25) METHYLENE CHLORIDE	6.91	84	544521	15.87	PPBV		79
26) 3-CHLOROPROPENE	7.01	76	280559	18.28	PPBV	#	41
27) FREON 113	7.12	151	1045610	18.23	PPBV	#	83
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	584569	16.94	PPBV	#	84
29) TERTIARY BUTYL ALCOHOL	6.94	59	726240	23.55	PPBV	#	1
30) METHYL TERTIARY BUTYL ETHE	7.93	73	1559811	18.84	PPBV		93
31) TETRAHYDROFURAN	9.26	42	583485	18.75	PPBV		83
32) HEXANE	8.75	57	967888	16.84	PPBV		89
33) VINYL ACETATE	7.99	86	162391	21.24	PPBV	#	35
34) 1,1-DICHLOROETHANE	7.87	63	1064225	17.27	PPBV		98
35) METHYL ETHYL KETONE	8.24	72	285388	20.27	PPBV	#	63
36) cis-1,2-DICHLOROETHYLENE	8.59	96	641827	17.59	PPBV	#	85
37) ETHYL ACETATE	8.79	61	156288	19.57	PPBV	#	31
38) CHLOROFORM	8.86	83	1119198	17.78	PPBV		96
39) 2,4-DIMETHYLPENTANE	9.54	57	1116954	16.78	PPBV	#	95
40) 1,1,1-TRICHLOROETHANE	9.75	97	1143843	18.16	PPBV		95
41) CARBON TETRACHLORIDE	10.30	117	1193613	18.38	PPBV		99
42) 1,2-DICHLOROETHANE	9.53	62	642884	17.74	PPBV		97
44) BENZENE	10.17	78	1921272	17.88	PPBV		97

(#) = qualifier out of range (m) = manual integration
W19115.D MW816.M Tue Dec 09 10:33:46 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:33 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:26 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	CYCLOHEXANE	10.41	84	878988	17.60 PPBV	#	84
46)	2,3-DIMETHYLPENTANE	10.61	71	469251	18.07 PPBV		82
47)	TRICHLOROETHYLENE	11.14	95	782562	18.13 PPBV		85
48)	1,2-DICHLOROPROPANE	10.93	63	670086	17.83 PPBV		99
49)	BROMODICHLOROMETHANE	11.11	83	1166717	18.33 PPBV		99
50)	2,2,4-TRIMETHYLPENTANE	11.15	57	2663799	15.53 PPBV		97
51)	1,4-DIOXANE	11.19	88	309147	19.91 PPBV	#	82
52)	METHYL METHACRYLATE	11.32	69	651095	21.24 PPBV	#	82
53)	HEPTANE	11.38	43	1013761	16.58 PPBV		81
54)	TVHC as EQUIV HEPTANE	11.38	TIC	4595152m	0.34 PPBV		
55)	METHYL ISOBUTYL KETONE	12.01	43	1027783	18.58 PPBV		87
56)	cis-1,3-DICHLOROPROPENE	11.96	75	1008160	19.41 PPBV		97
57)	TOLUENE	12.92	92	1414593	19.49 PPBV		96
58)	trans-1,3-DICHLOROPROPENE	12.46	75	986518	20.35 PPBV		89
59)	1,1,2-TRICHLOROETHANE	12.65	83	618011	19.45 PPBV		96
61)	2-HEXANONE	13.18	43	944742	17.89 PPBV		87
62)	TETRACHLOROETHYLENE	14.05	164	905084	19.17 PPBV		93
63)	DIBROMOCHLOROMETHANE	13.36	129	1233107	19.38 PPBV		100
64)	1,2-DIBROMOETHANE	13.61	107	1115430	19.60 PPBV		100
65)	OCTANE	13.86	43	1317838	15.86 PPBV	#	79
66)	CHLOROBENZENE	14.77	112	1765899	18.41 PPBV		92
67)	ETHYLBENZENE	15.14	91	2887449	18.78 PPBV		96
68)	m,p-XYLENE	15.34	106	2323039	38.07 PPBV		89
69)	o-XYLENE	15.85	106	1115328	18.95 PPBV		88
70)	STYRENE	15.73	104	1802166	21.00 PPBV		96
71)	NONANE	16.05	43	1233854	16.39 PPBV		85
72)	BROMOFORM	15.46	173	1210681	21.49 PPBV		98
74)	1,1,2,2-TETRACHLOROETHANE	15.85	83	1299284	18.97 PPBV		98
75)	ISOPROPYLBENZENE	16.49	105	2954188	19.37 PPBV		96
76)	2-CHLOROTOLUENE	17.02	91	1992472	19.49 PPBV		93
77)	4-ETHYLTOLUENE	17.21	105	2879139	20.38 PPBV		96
78)	1,3,5-TRIMETHYLBENZENE	17.29	105	2465277	20.15 PPBV		94
79)	1,2,4-TRIMETHYLBENZENE	17.75	105	2354868	20.83 PPBV		94
80)	m-DICHLOROBENZENE	17.93	146	1573445	21.08 PPBV		98
81)	BENZYL CHLORIDE	17.91	91	1836928	23.17 PPBV		94
82)	p-DICHLOROBENZENE	18.00	146	1504667	21.46 PPBV		98
83)	o-DICHLOROBENZENE	18.39	146	1346403	21.16 PPBV		98
84)	HEXACHLOROBUTADIENE	20.81	225	476150	19.50 PPBV		99
85)	1,2,4-TRICHLOROBENZENE	20.31	180	497945	25.66 PPBV		98

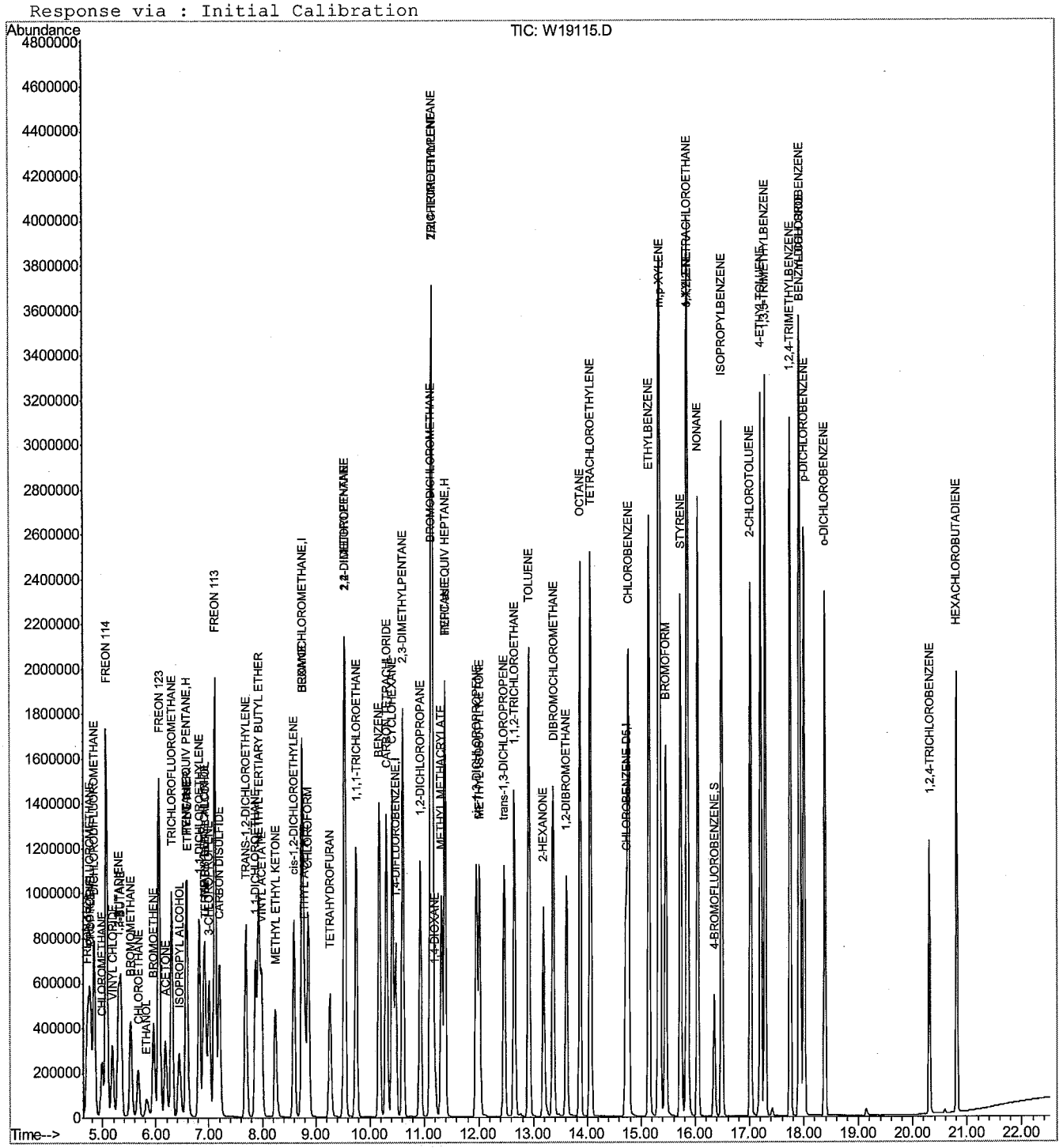
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19115.D MW816.M Tue Dec 09 10:33:47 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



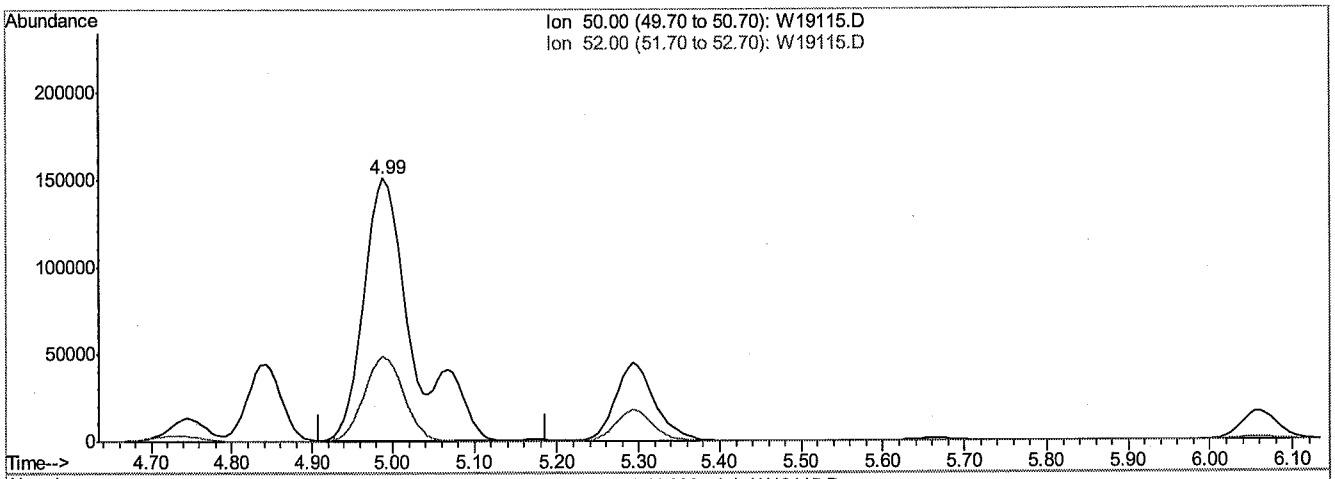
ACCUTEST Laboratories JA8427

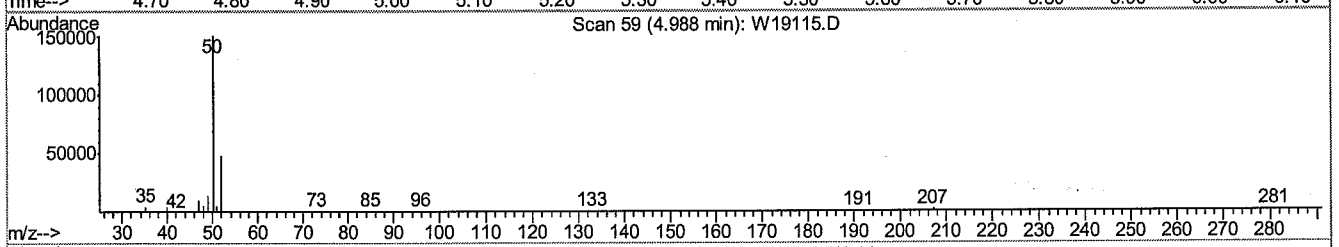
Quantitation Report (Qedit)

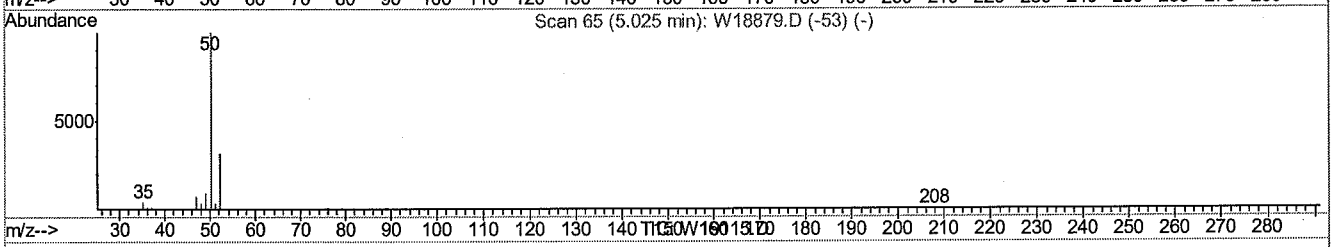
Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:57 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.99min 16.42PPBV

response 622233

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	32.29
0.00	0.00	0.00
0.00	0.00	0.00

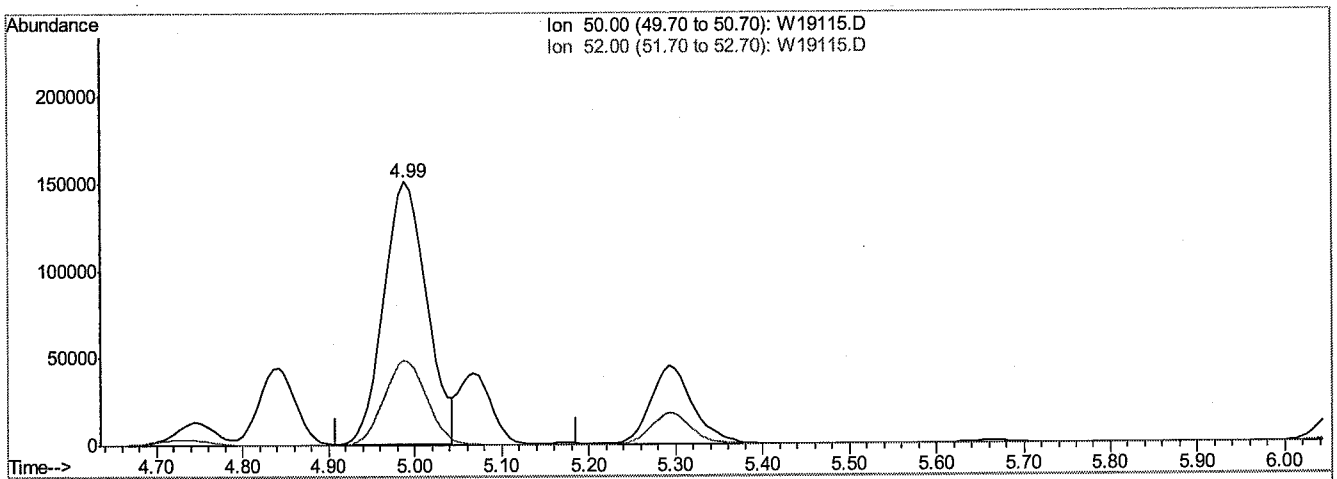
W19115.D MW816.M Tue Dec 09 08:58:05 2008 MSW

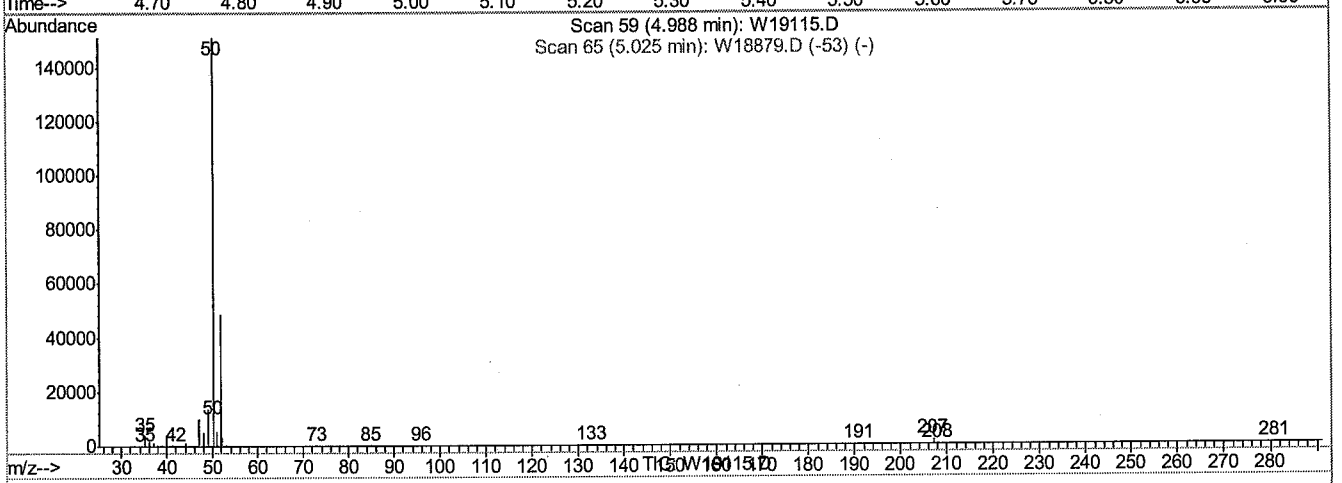
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:58 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration





(8) CHLOROMETHANE

4.99min 13.74PPBV m

response 520685

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	32.21
0.00	0.00	0.00
0.00	0.00	0.00

W19115.D MW816.M Tue Dec 09 08:58:17 2008 MSW

6.7.4.2

6

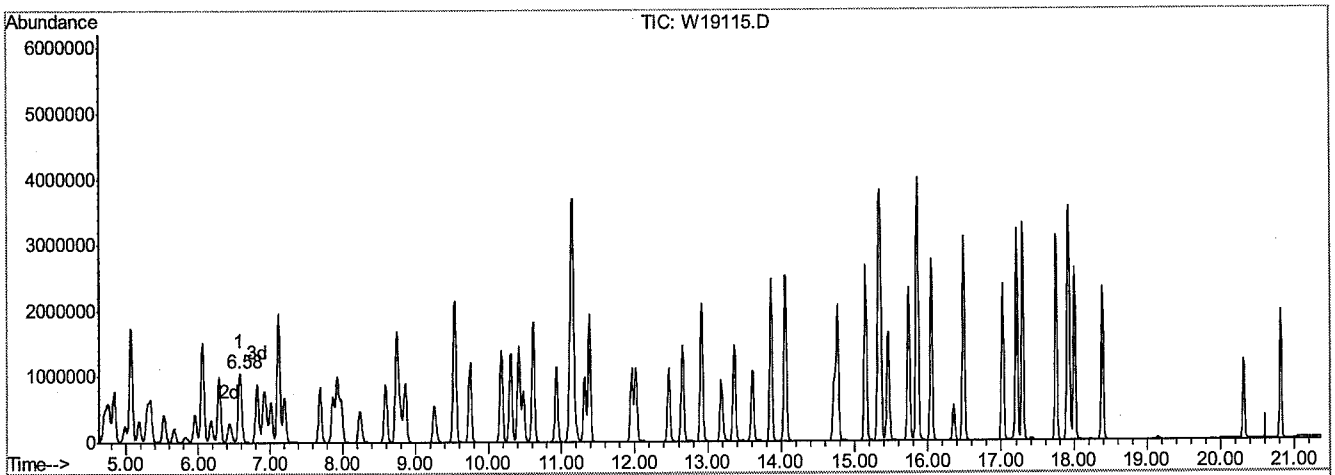
ACCUTEST Laboratories JA8427

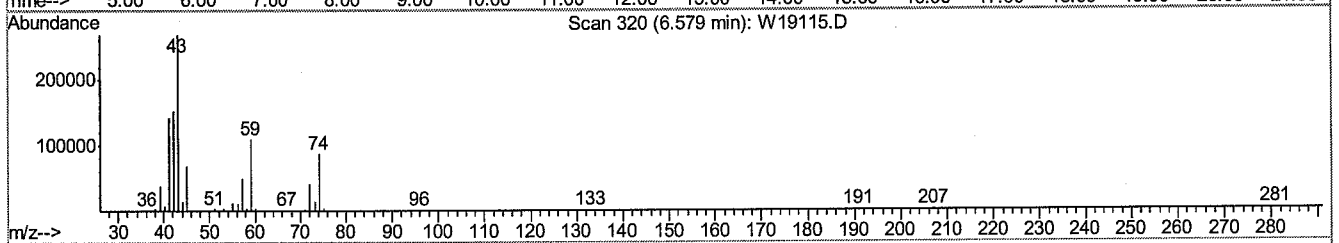
Quantitation Report (Qedit)

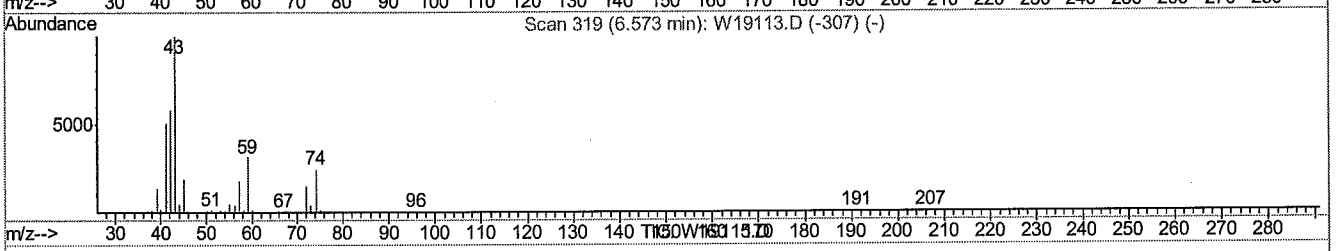
Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.58min 0.26PPBV m

response 3532731

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

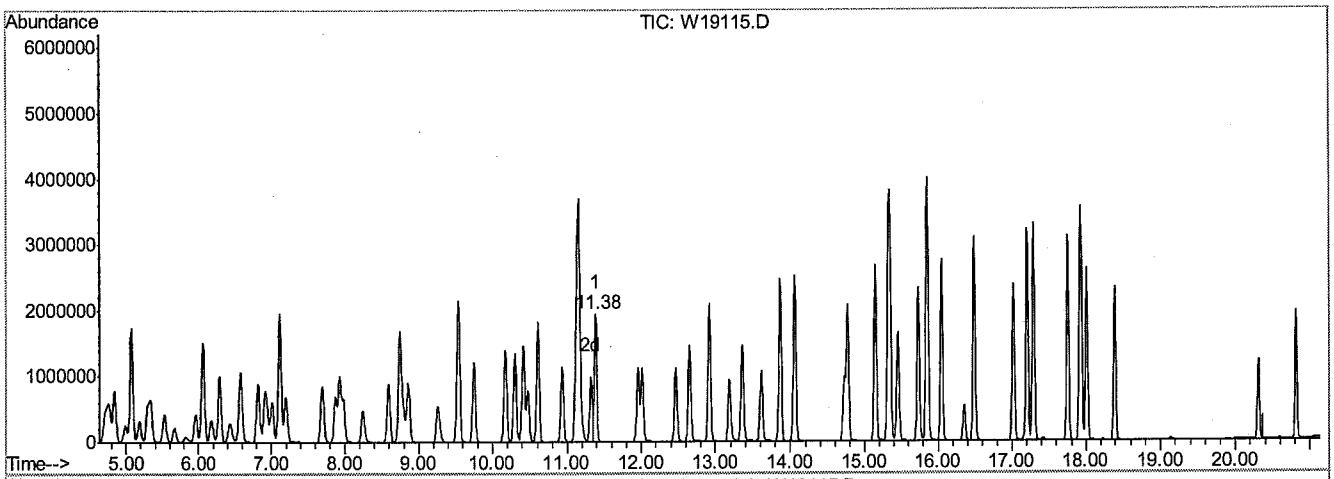
W19115.D MW816.M Wed Dec 10 09:14:03 2008 MSW

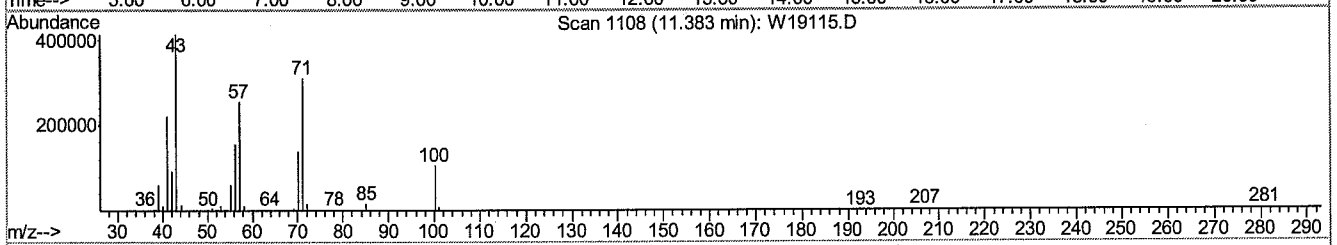
Quantitation Report (Qedit)

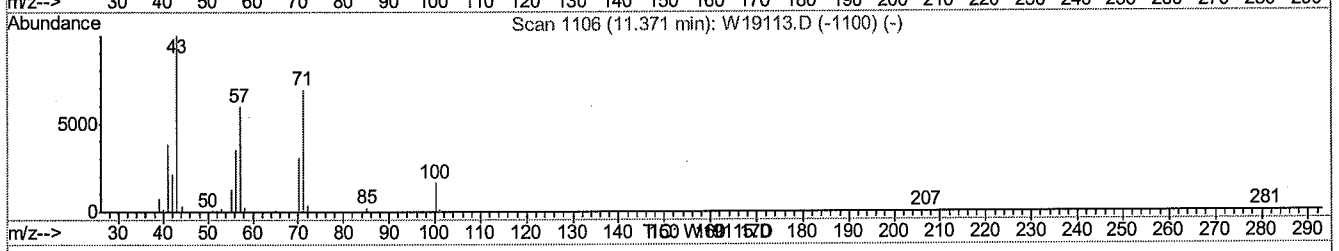
Data File : C:\MSDCHEM\1\DATA\W19115.D
Acq On : 8 Dec 2008 11:33 pm
Sample : IC816-20
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.38min 0.34PPBV m

response 4595152

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19115.D MW816.M Wed Dec 10 09:14:07 2008 MSW

ACCUTEST Laboratories JA8427

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/12/08 13:04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:49 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:41 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.5 6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	186651	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	913664	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	778234	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	252794	4.98	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 99.60%			
Target Compounds						Qvalue
3) FREON 152A	4.71	65	96558	4.78	PPBV	89
4) CHLORODIFLUOROMETHANE	4.75	67	32232	4.81	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.84	85	377035	4.99	PPBV	98
6) PROPYLENE	4.77	41	112161	4.14	PPBV	97
7) FREON 114	5.07	85	459364	5.02	PPBV	92
8) CHLOROMETHANE	4.99	50	143446m	3.84	PPBV	
9) VINYL CHLORIDE	5.18	62	173989	4.85	PPBV	99
10) 1,3-BUTADIENE	5.29	54	131135	4.79	PPBV #	88
11) n-BUTANE	5.34	43	250599	4.52	PPBV	95
12) BROMOMETHANE	5.53	94	152481	5.02	PPBV	98
13) CHLOROETHANE	5.66	64	96456	4.76	PPBV	95
14) FREON 123	6.05	85	242262	4.94	PPBV	98
15) TRICHLOROFLUOROMETHANE	6.29	101	391773	4.96	PPBV	99
16) ISOPROPYL ALCOHOL	6.40	45	179622	4.45	PPBV	99
17) ACETONE	6.18	58	64819	4.25	PPBV #	72
18) PENTANE	6.57	42	140352	4.30	PPBV	94
19) TVHC as EQUIV PENTANE	6.57	TIC	953770m	0.07	PPBV	
20) ETHYL ETHER	6.60	74	80931	4.71	PPBV	83
21) 1,1-DICHLOROETHYLENE	6.82	96	179240	4.85	PPBV #	71
22) CARBON DISULFIDE	7.20	76	502762	5.02	PPBV	93
23) ETHANOL	5.82	45	47027	3.89	PPBV	98
24) BROMOETHENE	5.96	106	152367	5.02	PPBV #	98
25) METHYLENE CHLORIDE	6.91	84	154558	4.60	PPBV	77
26) 3-CHLOROPROPENE	7.01	76	78548	5.10	PPBV #	35
27) FREON 113	7.11	151	302872	5.26	PPBV #	83
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	169658	4.96	PPBV #	83
29) TERTIARY BUTYL ALCOHOL	6.91	59	192618	5.90	PPBV #	16
30) METHYL TERTIARY BUTYL ETHE	7.93	73	397475	4.75	PPBV	92
31) TETRAHYDROFURAN	9.26	42	139630	4.45	PPBV	79
32) HEXANE	8.74	57	280210	4.93	PPBV	88
33) VINYL ACETATE	7.97	86	42480	5.37	PPBV #	30
34) 1,1-DICHLOROETHANE	7.87	63	308459	5.04	PPBV	99
35) METHYL ETHYL KETONE	8.23	72	71338	4.95	PPBV #	58
36) cis-1,2-DICHLOROETHYLENE	8.58	96	185399	5.10	PPBV #	84
37) ETHYL ACETATE	8.77	61	38959	4.79	PPBV #	24
38) CHLOROFORM	8.84	83	322803	5.13	PPBV	96
39) 2,4-DIMETHYLPENTANE	9.52	57	331319	5.03	PPBV #	95
40) 1,1,1-TRICHLOROETHANE	9.73	97	325678	5.15	PPBV	94
41) CARBON TETRACHLORIDE	10.29	117	337892	5.18	PPBV	98
42) 1,2-DICHLOROETHANE	9.51	62	177249	4.90	PPBV	97
44) BENZENE	10.16	78	552112	5.23	PPBV	96

(#) = qualifier out of range (m) = manual integration
W19116.D MW816.M Tue Dec 09 10:33:49 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:35:49 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:35:41 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.5 6

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.40	84	253553	5.18 PPBV #	83
46) 2,3-DIMETHYLPENTANE	10.60	71	133355	5.21 PPBV	83
47) TRICHLOROETHYLENE	11.13	95	222258	5.22 PPBV	86
48) 1,2-DICHLOROPROPANE	10.91	63	183456	4.97 PPBV	99
49) BROMODICHLOROMETHANE	11.10	83	325631	5.18 PPBV	100
50) 2,2,4-TRIMETHYLPENTANE	11.13	57	850523	5.17 PPBV	98
51) 1,4-DIOXANE	11.19	88	79169	5.08 PPBV	88
52) METHYL METHACRYLATE	11.30	69	152890	4.90 PPBV #	80
53) HEPTANE	11.36	43	286865	4.84 PPBV	82
54) TVHC as EQUIV HEPTANE	11.36	TIC	1298179m	0.10 PPBV	
55) METHYL ISOBUTYL KETONE	11.99	43	257756	4.71 PPBV	88
56) cis-1,3-DICHLOROPROPENE	11.94	75	268716	5.18 PPBV	96
57) TOLUENE	12.90	92	379500	5.23 PPBV	97
58) trans-1,3-DICHLOROPROPENE	12.44	75	254308	5.20 PPBV	89
59) 1,1,2-TRICHLOROETHANE	12.63	83	164022	5.17 PPBV	96
61) 2-HEXANONE	13.18	43	233401	4.80 PPBV	88
62) TETRACHLOROETHYLENE	14.04	164	240062	5.45 PPBV	93
63) DIBROMOCHLOROMETHANE	13.34	129	328323	5.52 PPBV	99
64) 1,2-DIBROMOETHANE	13.59	107	286071	5.37 PPBV	99
65) OCTANE	13.85	43	379662	5.07 PPBV #	83
66) CHLOROBENZENE	14.75	112	473536	5.34 PPBV	92
67) ETHYLBENZENE	15.13	91	758859	5.32 PPBV	97
68) m,p-XYLENE	15.32	106	612646	10.78 PPBV	89
69) o-XYLENE	15.83	106	294270	5.37 PPBV	89
70) STYRENE	15.72	104	448588	5.50 PPBV	94
71) NONANE	16.03	43	352014	5.16 PPBV	89
72) BROMOFORM	15.44	173	301194	5.60 PPBV	99
74) 1,1,2,2-TETRACHLOROETHANE	15.83	83	340376	5.34 PPBV	99
75) ISOPROPYLBENZENE	16.47	105	765666	5.37 PPBV	96
76) 2-CHLOROTOLUENE	17.01	91	522007	5.46 PPBV	94
77) 4-ETHYLTOLUENE	17.20	105	718965	5.39 PPBV	97
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	608228	5.28 PPBV	94
79) 1,2,4-TRIMETHYLBENZENE	17.74	105	569886	5.32 PPBV	95
80) m-DICHLOROBENZENE	17.92	146	392274	5.53 PPBV	97
81) BENZYL CHLORIDE	17.91	91	420826	5.47 PPBV	96
82) p-DICHLOROBENZENE	18.00	146	371335	5.55 PPBV	97
83) o-DICHLOROBENZENE	18.38	146	332652	5.50 PPBV	98
84) HEXACHLOROBUTADIENE	20.81	225	120607	5.28 PPBV	100
85) 1,2,4-TRICHLOROBENZENE	20.31	180	106308	5.52 PPBV	98

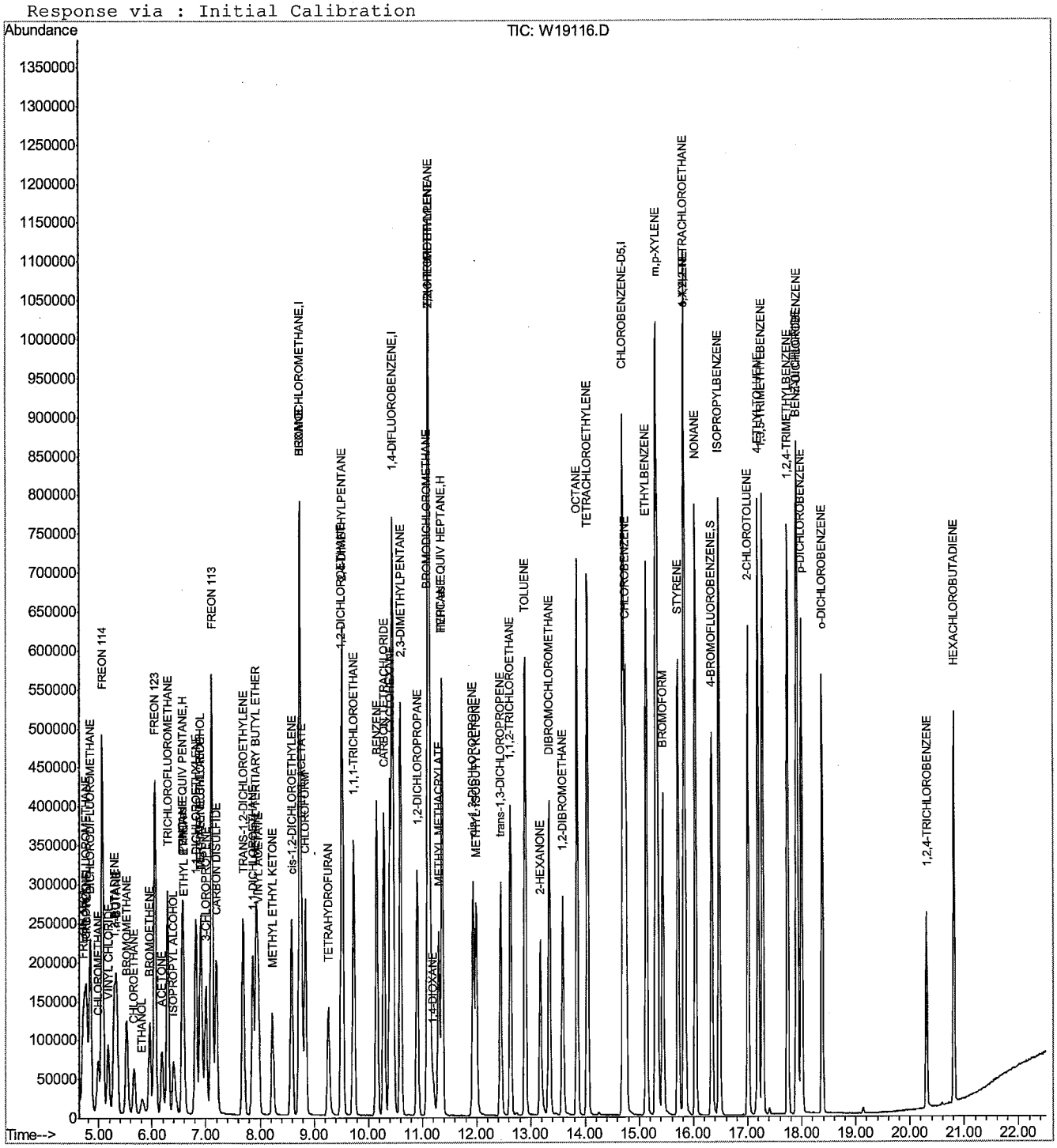
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19116.D MW816.M Tue Dec 09 10:33:49 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:00 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



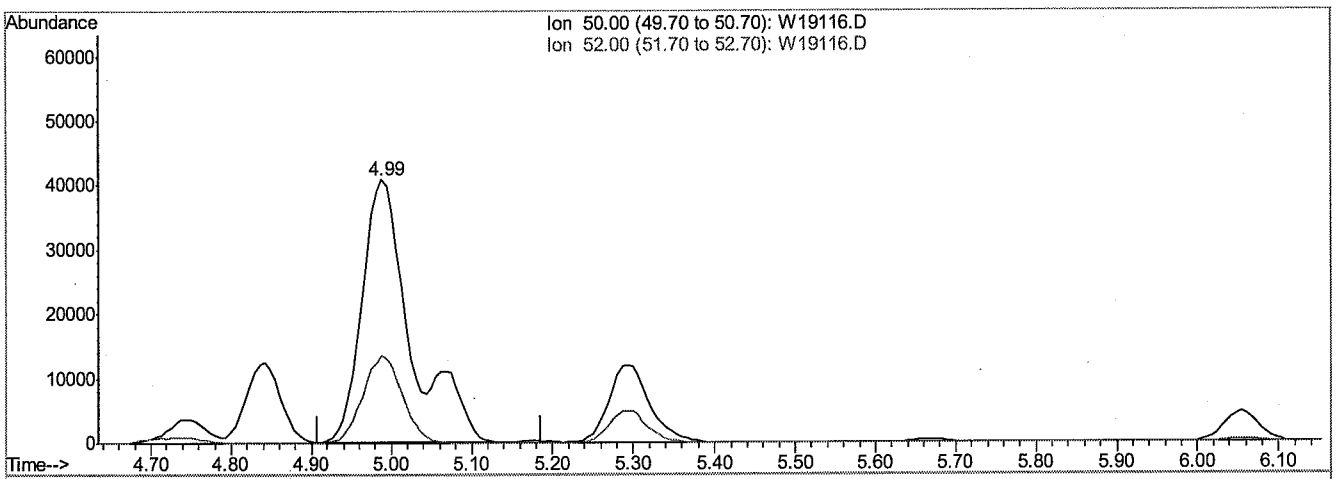
ACCUTEST Laboratories JA8427

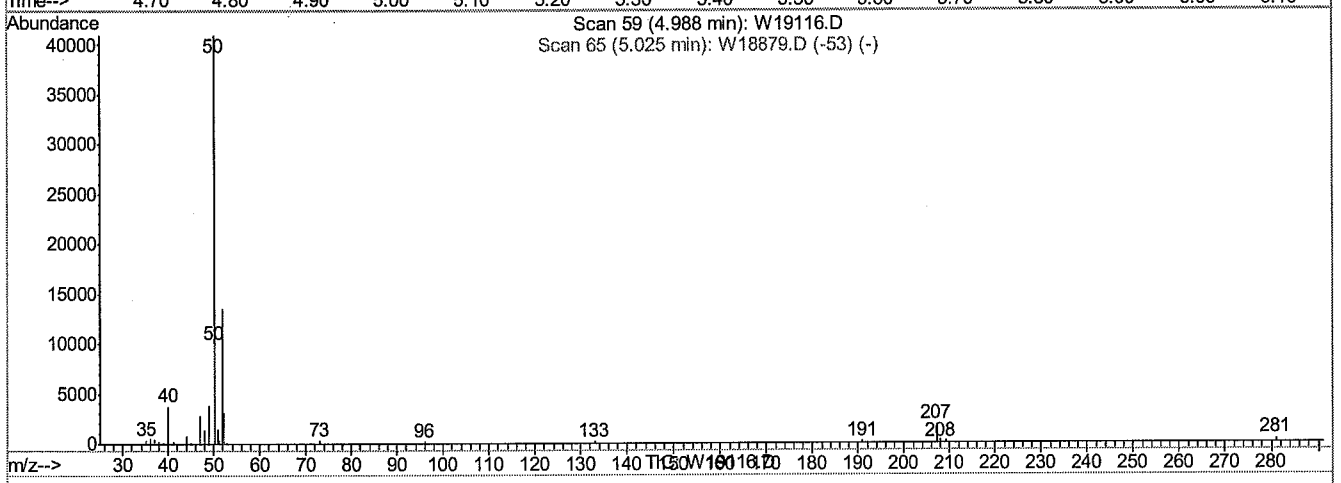
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 8:59 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration





(8) CHLOROMETHANE

4.99min 4.57PPBV

response 170631

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	33.12
0.00	0.00	0.00
0.00	0.00	0.00

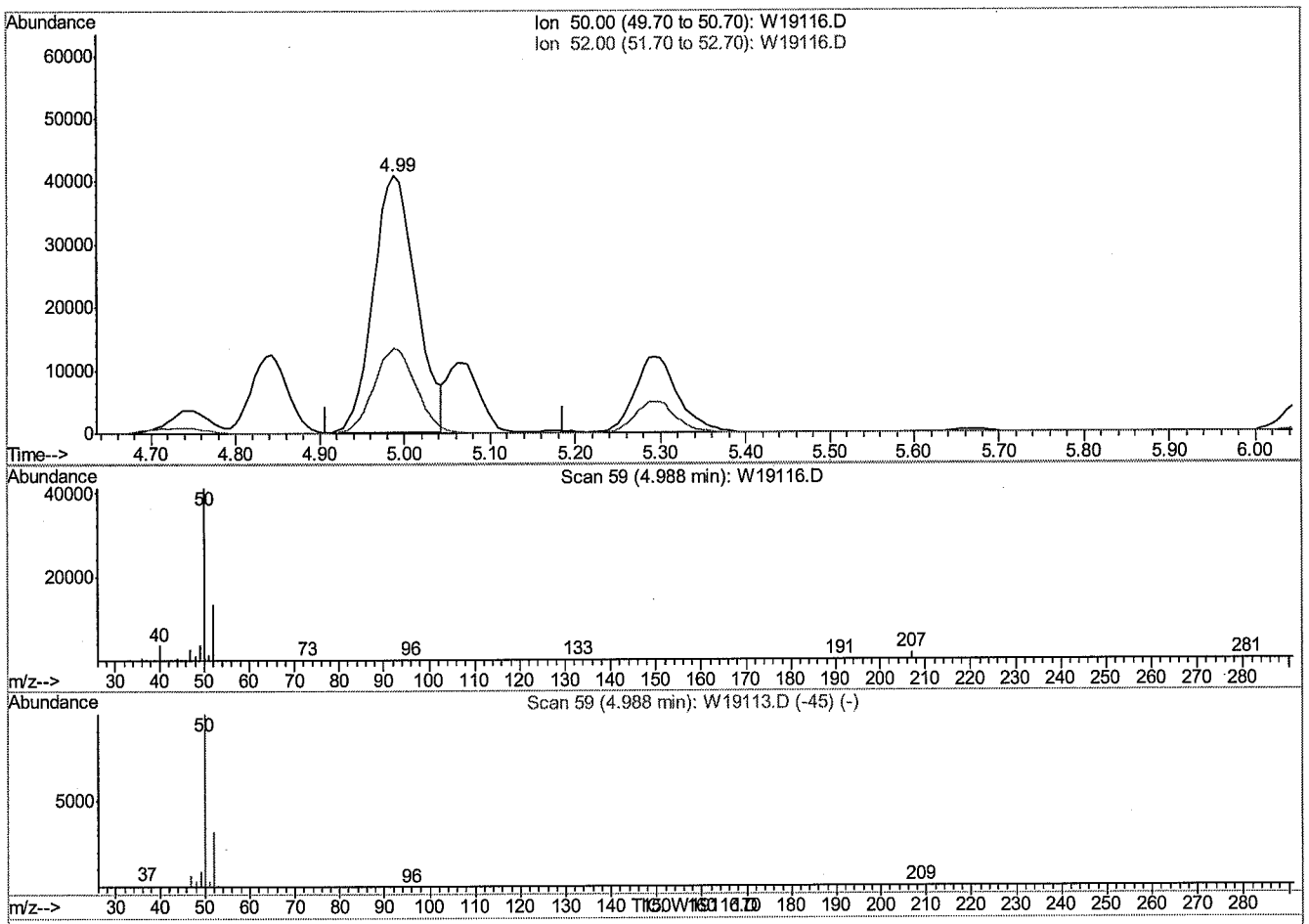
W19116.D MW816.M Tue Dec 09 08:59:36 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:00 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(8) CHLOROMETHANE

4.99min 3.84PPBV m

response 143446

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	33.02
0.00	0.00	0.00
0.00	0.00	0.00

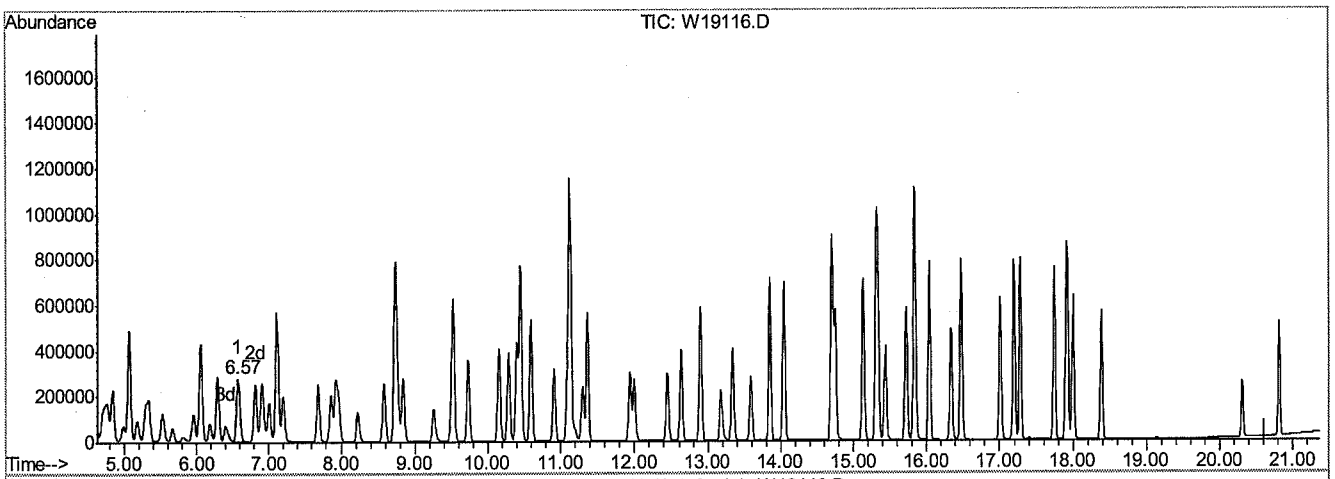
W19116.D MW816.M Wed Dec 10 09:14:21 2008 MSW

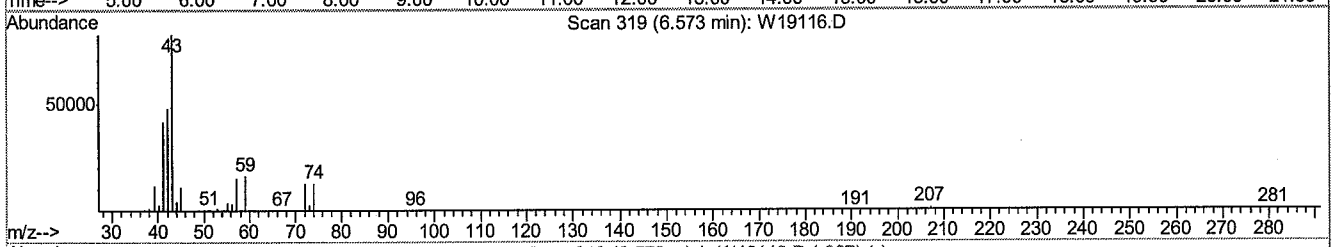
Quantitation Report (Qedit)

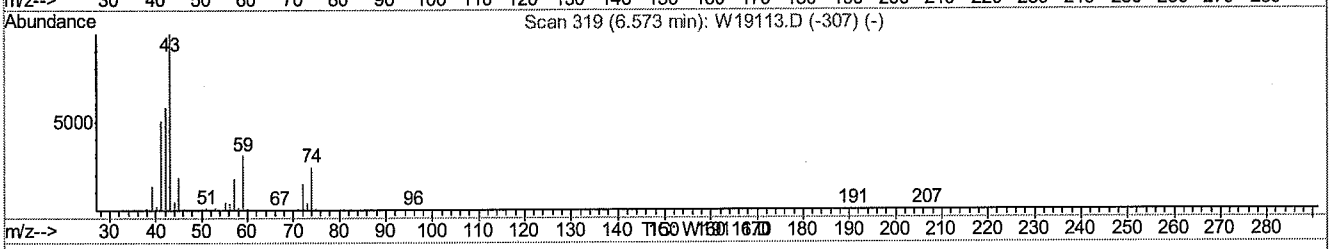
Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:00 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 0.07PPBV m

response 953770

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

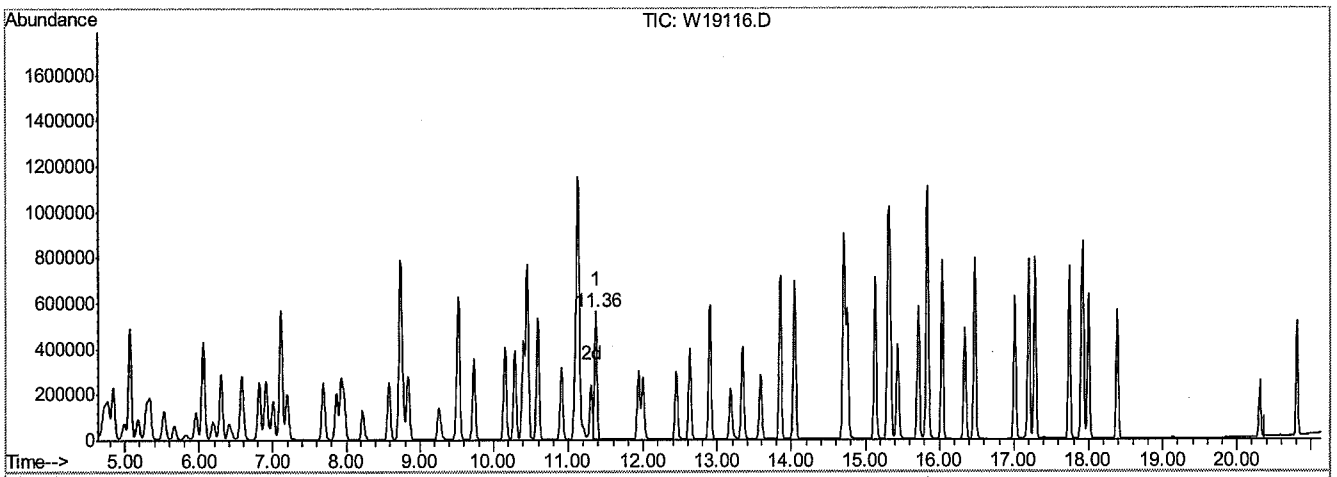
W19116.D MW816.M Wed Dec 10 09:14:27 2008 MSW

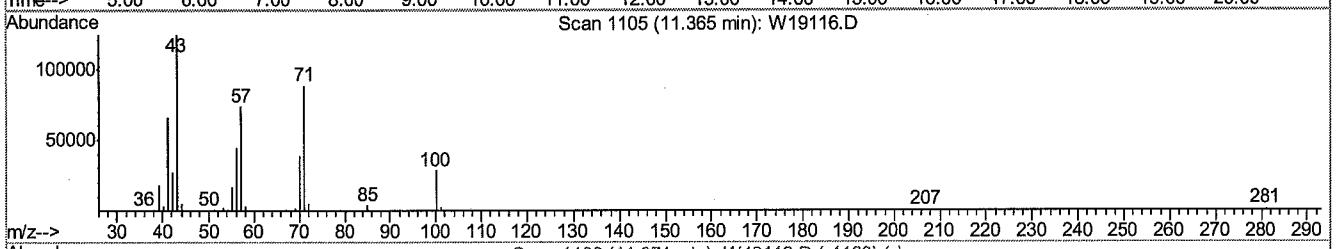
Quantitation Report (Qedit)

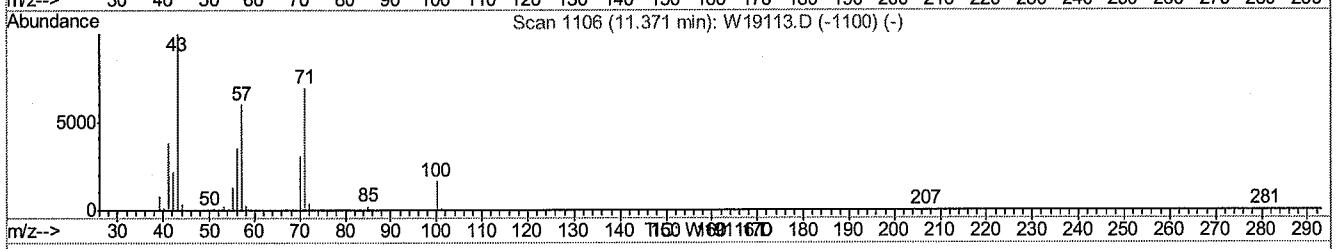
Data File : C:\MSDCHEM\1\DATA\W19116.D
Acq On : 9 Dec 2008 12:13 am
Sample : IC816-5.0
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:00 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.36min 0.10PPBV m

response 1298179

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19116.D MW816.M Wed Dec 10 09:14:34 2008 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/12/08 13:04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:38:07 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:37:52 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	178657	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	879318	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	734079	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	229618	4.84	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 96.80%			
Target Compounds						Qvalue
3) FREON 152A	4.70	65	8885	0.49	PPBV	94
4) CHLORODIFLUOROMETHANE	4.75	67	3052	0.50	PPBV	92
5) DICHLORODIFLUOROMETHANE	4.84	85	34557	0.50	PPBV	97
6) PROPYLENE	4.77	41	12027	0.51	PPBV	99
7) FREON 114	5.06	85	42251	0.50	PPBV	93
8) CHLOROMETHANE	4.99	50	14237m	0.42	PPBV	
9) VINYL CHLORIDE	5.18	62	16294	0.50	PPBV	99
10) 1,3-BUTADIENE	5.29	54	12217	0.49	PPBV	95
11) n-BUTANE	5.34	43	24680	0.50	PPBV #	93
12) BROMOMETHANE	5.52	94	14204	0.50	PPBV	86
13) CHLOROETHANE	5.66	64	8828	0.48	PPBV	93
14) FREON 123	6.06	85	22133	0.49	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.29	101	35954	0.49	PPBV	99
16) ISOPROPYL ALCOHOL	6.51	45	17129	0.48	PPBV	93
17) ACETONE	6.26	58	6905	0.50	PPBV #	74
18) PENTANE	6.57	42	13164	0.47	PPBV	93
20) ETHYL ETHER	6.65	74	7690	0.49	PPBV	85
21) 1,1-DICHLOROETHYLENE	6.82	96	17789	0.52	PPBV #	63
22) CARBON DISULFIDE	7.20	76	45426	0.49	PPBV	96
23) ETHANOL	5.91	45	5356	0.50	PPBV	96
24) BROMOETHENE	5.96	106	13771	0.49	PPBV #	97
25) METHYLENE CHLORIDE	6.91	84	16232	0.52	PPBV	80
26) 3-CHLOROPROPENE	7.01	76	6821	0.48	PPBV #	65
27) FREON 113	7.11	151	26257	0.49	PPBV	86
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	17546	0.54	PPBV #	70
29) TERTIARY BUTYL ALCOHOL	7.02	59	19596	0.62	PPBV	86
30) METHYL TERTIARY BUTYL ETHE	7.99	73	39613	0.51	PPBV	93
31) TETRAHYDROFURAN	9.35	42	13804	0.49	PPBV	86
32) HEXANE	8.74	57	25320	0.49	PPBV	90
33) VINYL ACETATE	8.01	86	3642	0.48	PPBV #	48
34) 1,1-DICHLOROETHANE	7.87	63	27652	0.49	PPBV	98
35) METHYL ETHYL KETONE	8.29	72	6751	0.50	PPBV #	63
36) cis-1,2-DICHLOROETHYLENE	8.59	96	19348	0.56	PPBV #	69
37) ETHYL ACETATE	8.83	61	3655	0.49	PPBV #	83
38) CHLOROFORM	8.84	83	28170	0.48	PPBV	95
39) 2,4-DIMETHYLPENTANE	9.52	57	28280	0.48	PPBV #	95
40) 1,1,1-TRICHLOROETHANE	9.73	97	28509	0.48	PPBV	95
41) CARBON TETRACHLORIDE	10.29	117	29221	0.48	PPBV	98
42) 1,2-DICHLOROETHANE	9.51	62	16214	0.49	PPBV	98
44) BENZENE	10.16	78	48102	0.49	PPBV	95
45) CYCLOHEXANE	10.40	84	21876	0.48	PPBV #	67

(#) = qualifier out of range (m) = manual integration
W19117.D MW816.M Tue Dec 09 10:33:51 2008 MSW

6.7.6 9

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:38:07 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:37:52 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.6

6

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 2,3-DIMETHYLPENTANE	10.60	71	11319	0.48	PPBV		84
47) TRICHLOROETHYLENE	11.12	95	18679	0.48	PPBV		86
48) 1,2-DICHLOROPROPANE	10.91	63	16478	0.48	PPBV		99
49) BROMODICHLOROMETHANE	11.09	83	27502	0.48	PPBV		100
50) 2,2,4-TRIMETHYLPENTANE	11.13	57	71678	0.50	PPBV		99
51) 1,4-DIOXANE	11.27	88	7541	0.51	PPBV		84
52) METHYL METHACRYLATE	11.32	69	13893	0.47	PPBV	#	1
53) HEPTANE	11.36	43	25027	0.47	PPBV		85
55) METHYL ISOBUTYL KETONE	12.04	43	24308	0.49	PPBV		93
56) cis-1,3-DICHLOROPROPENE	11.94	75	22235	0.46	PPBV		89
57) TOLUENE	12.90	92	31676	0.46	PPBV		98
58) trans-1,3-DICHLOROPROPENE	12.45	75	20575	0.45	PPBV		91
59) 1,1,2-TRICHLOROETHANE	12.63	83	13697	0.46	PPBV		96
61) 2-HEXANONE	13.22	43	21642	0.50	PPBV		93
62) TETRACHLOROETHYLENE	14.04	164	19143	0.47	PPBV		95
63) DIBROMOCHLOROMETHANE	13.34	129	25500	0.46	PPBV		99
64) 1,2-DIBROMOETHANE	13.59	107	22550	0.46	PPBV		98
65) OCTANE	13.85	43	31074	0.48	PPBV	#	86
66) CHLOROBENZENE	14.75	112	39889	0.48	PPBV		97
67) ETHYLBENZENE	15.13	91	61707	0.47	PPBV		98
68) m,p-XYLENE	15.33	106	49406	0.96	PPBV		90
69) o-XYLENE	15.83	106	23267	0.47	PPBV		92
70) STYRENE	15.72	104	33066	0.44	PPBV		93
71) NONANE	16.03	43	27526	0.47	PPBV		92
72) BROMOFORM	15.44	173	20838	0.42	PPBV		99
74) 1,1,2,2-TETRACHLOROETHANE	15.84	83	25954	0.46	PPBV		99
75) ISOPROPYLBENZENE	16.47	105	59931	0.46	PPBV		97
76) 2-CHLOROTOLUENE	17.01	91	38994	0.45	PPBV		95
77) 4-ETHYLTOLUENE	17.20	105	55104	0.46	PPBV		98
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	48217	0.46	PPBV		95
79) 1,2,4-TRIMETHYLBENZENE	17.74	105	43451	0.45	PPBV		96
80) m-DICHLOROBENZENE	17.92	146	28414	0.44	PPBV		97
81) BENZYL CHLORIDE	17.91	91	28021	0.40	PPBV		97
82) p-DICHLOROBENZENE	18.00	146	26814	0.43	PPBV		97
83) o-DICHLOROBENZENE	18.39	146	24477	0.44	PPBV		98
84) HEXACHLOROBUTADIENE	20.81	225	9236	0.44	PPBV		99
85) 1,2,4-TRICHLOROBENZENE	20.31	180	6531	0.36	PPBV		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19117.D MW816.M Tue Dec 09 10:33:51 2008 MSW

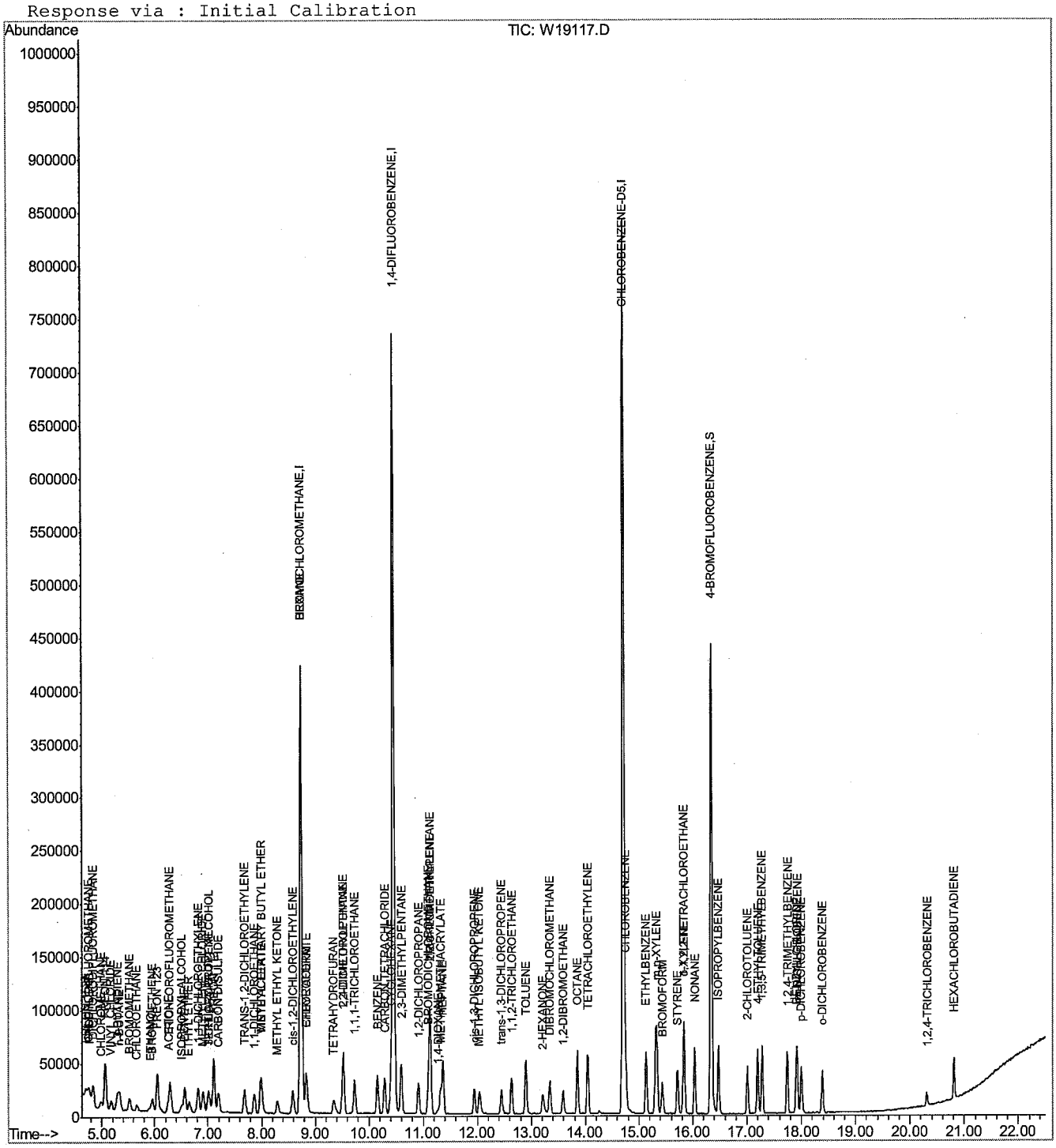
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:03 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



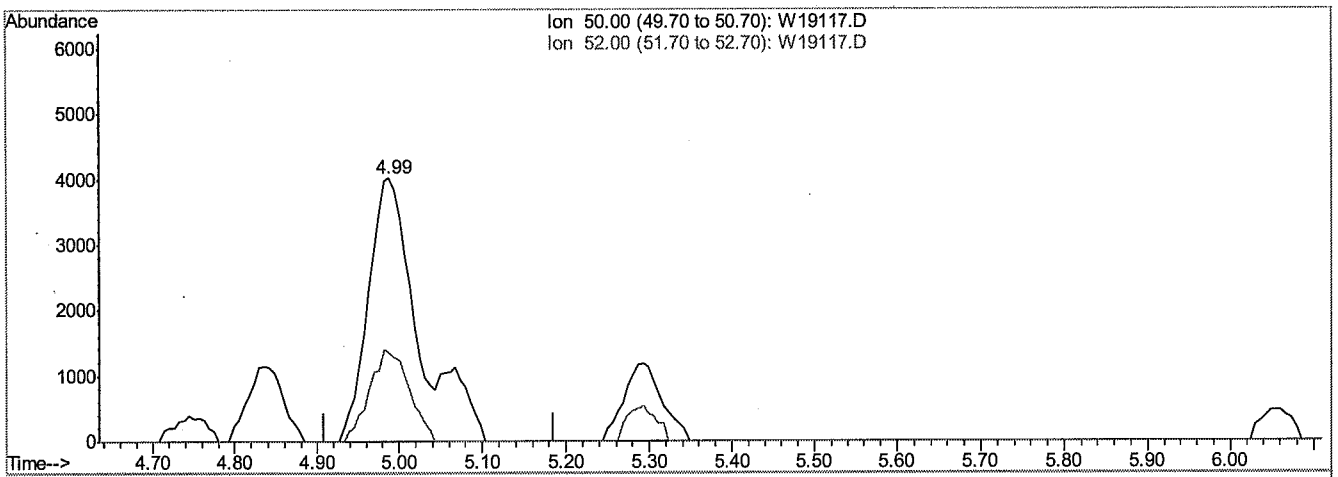
ACCUTEST Laboratories JA8427

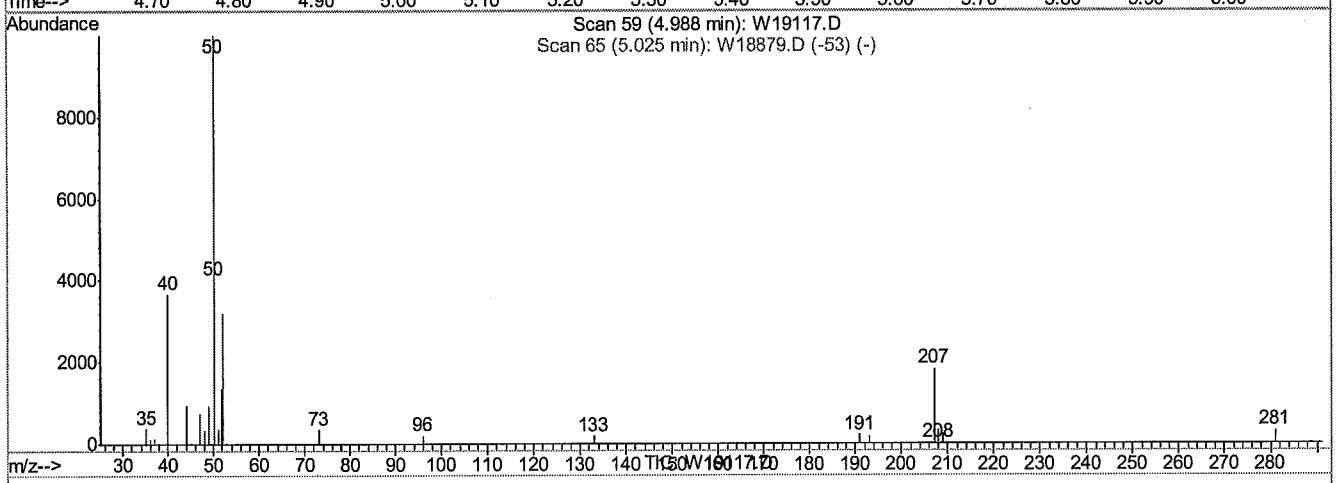
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:02 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration





(8) CHLOROMETHANE

4.99min 0.50PPBV

response 16907

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	33.57
0.00	0.00	0.00
0.00	0.00	0.00

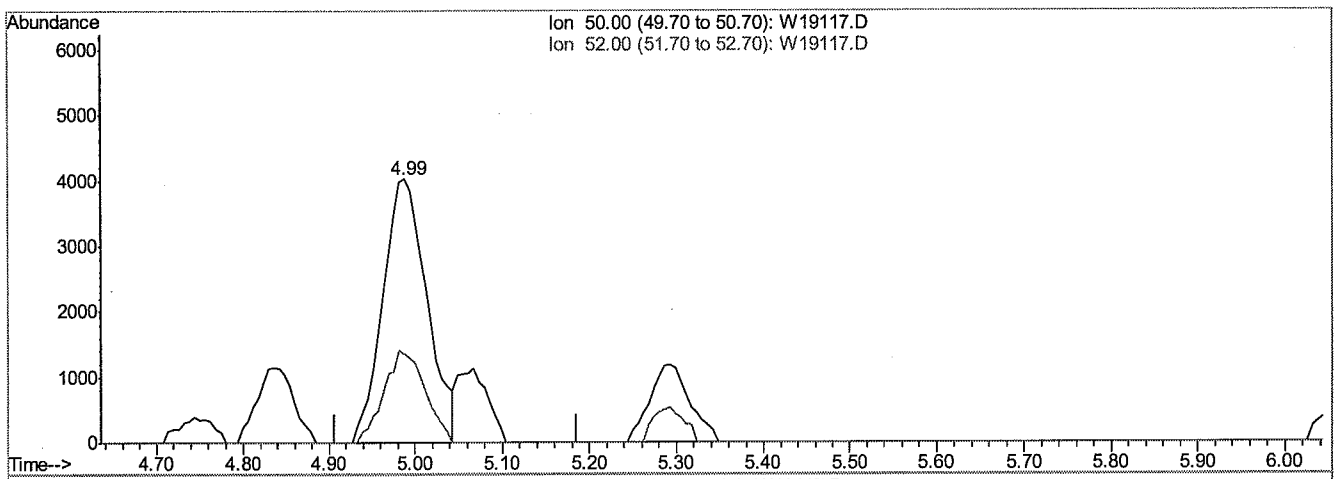
W19117.D MW816.M Tue Dec 09 09:02:16 2008 MSW

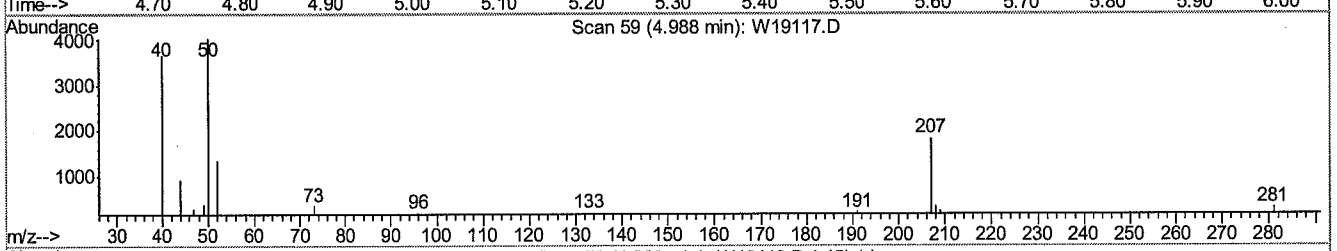
Quantitation Report (Qedit)

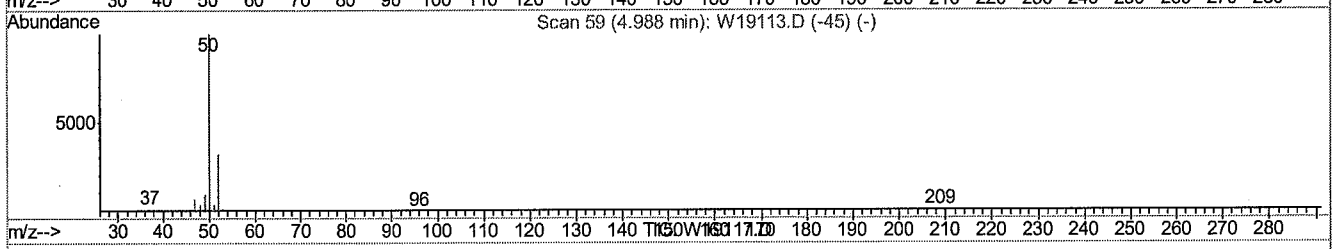
Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:03 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(8) CHLOROMETHANE

4.99min 0.42PPBV m

response 14237

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	33.57
0.00	0.00	0.00
0.00	0.00	0.00

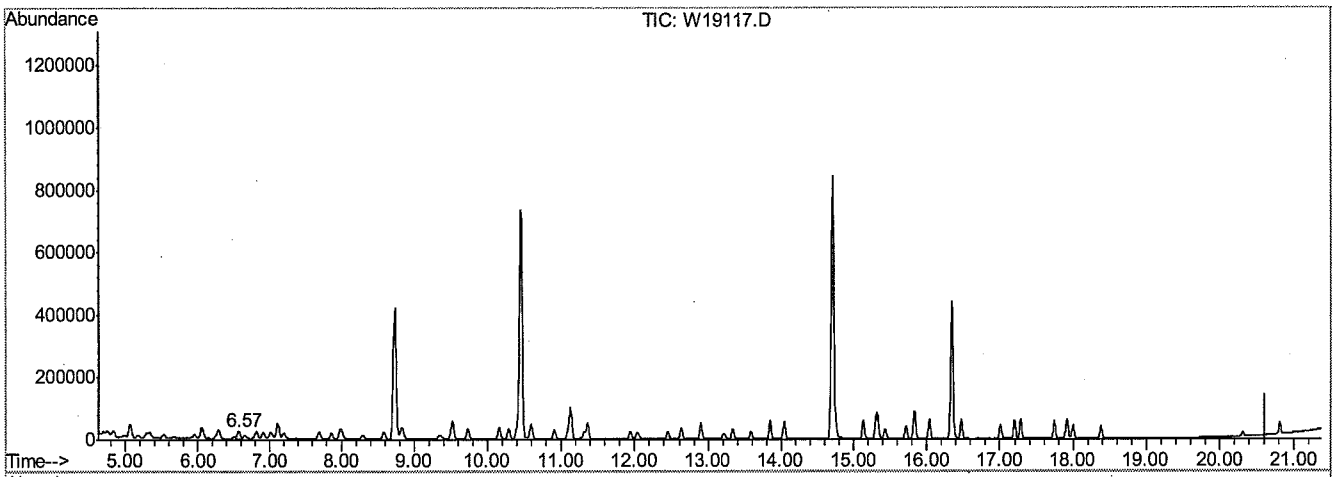
W19117.D MW816.M Wed Dec 10 09:14:49 2008 MSW

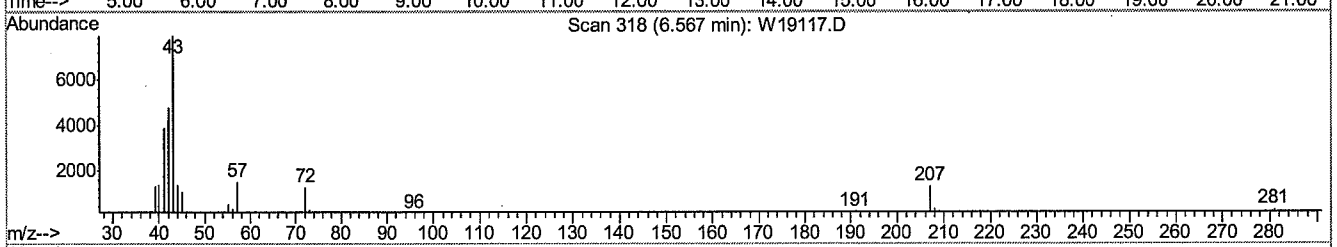
ACCUTEST Laboratories JA8427

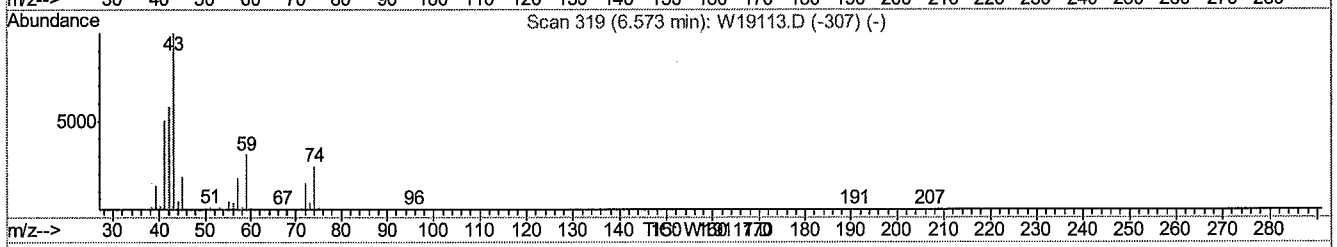
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19117.D Vial: 1
Acq On : 9 Dec 2008 12:53 am Operator: BENR
Sample : IC816-0.5 Inst : MSW
Misc : MS49009,VW816,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:03 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 0.01PPBV m

response 77221

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

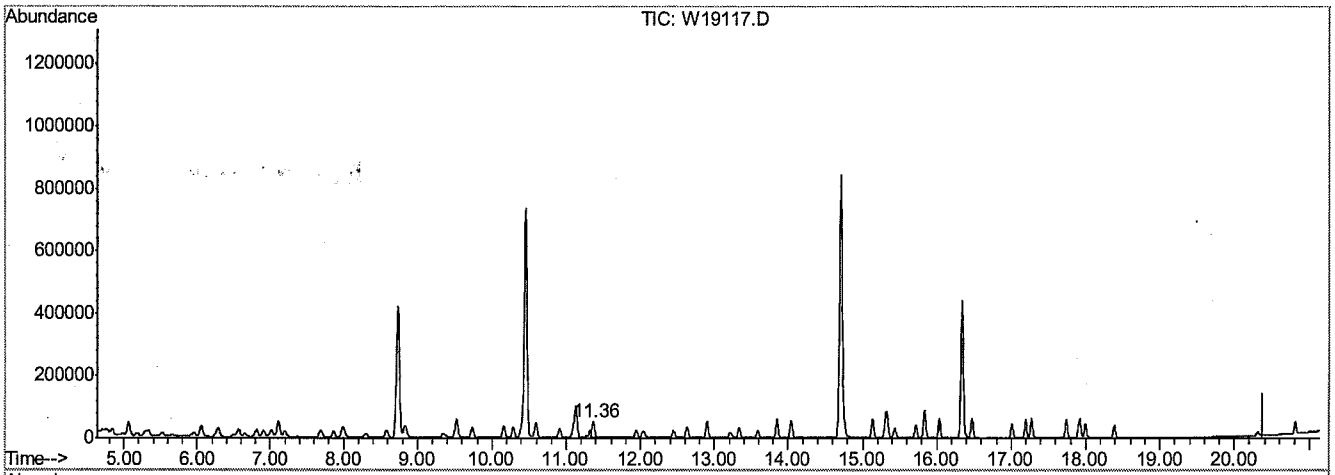
ACCUTEST Laboratories JA8427

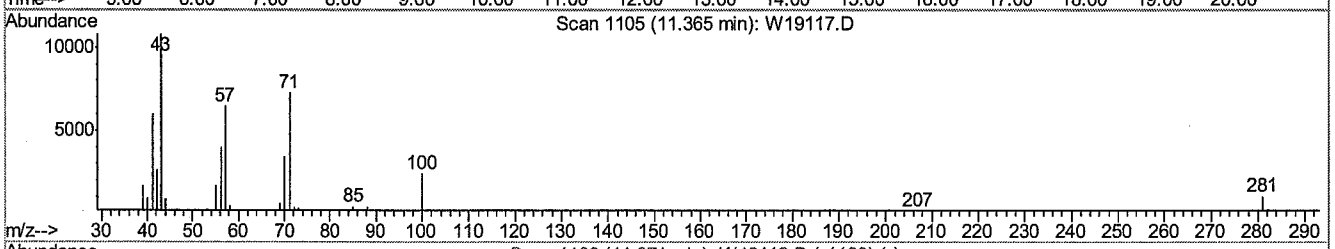
Quantitation Report (Qedit)

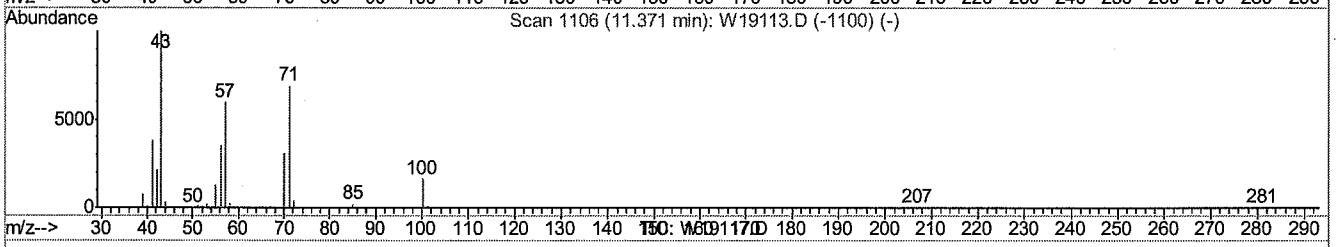
Data File : C:\MSDCHEM\1\DATA\W19117.D
Acq On : 9 Dec 2008 12:53 am
Sample : IC816-0.5
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:03 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.36min 0.01PPBV m

response 120696

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19117.D MW816.M Wed Dec 10 09:14:56 2008 MSW

6.7.6.4

6

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19118.D
Acq On : 9 Dec 2008 1:33 am
Sample : IC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 09:13:57 2008

Vial: 6
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	166449	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	805745	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	662968	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	207478	4.84	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 96.80%			
Target Compounds						Qvalue
86) NAPHTHALENE	20.44	128	340639	10.00	PPBV	100

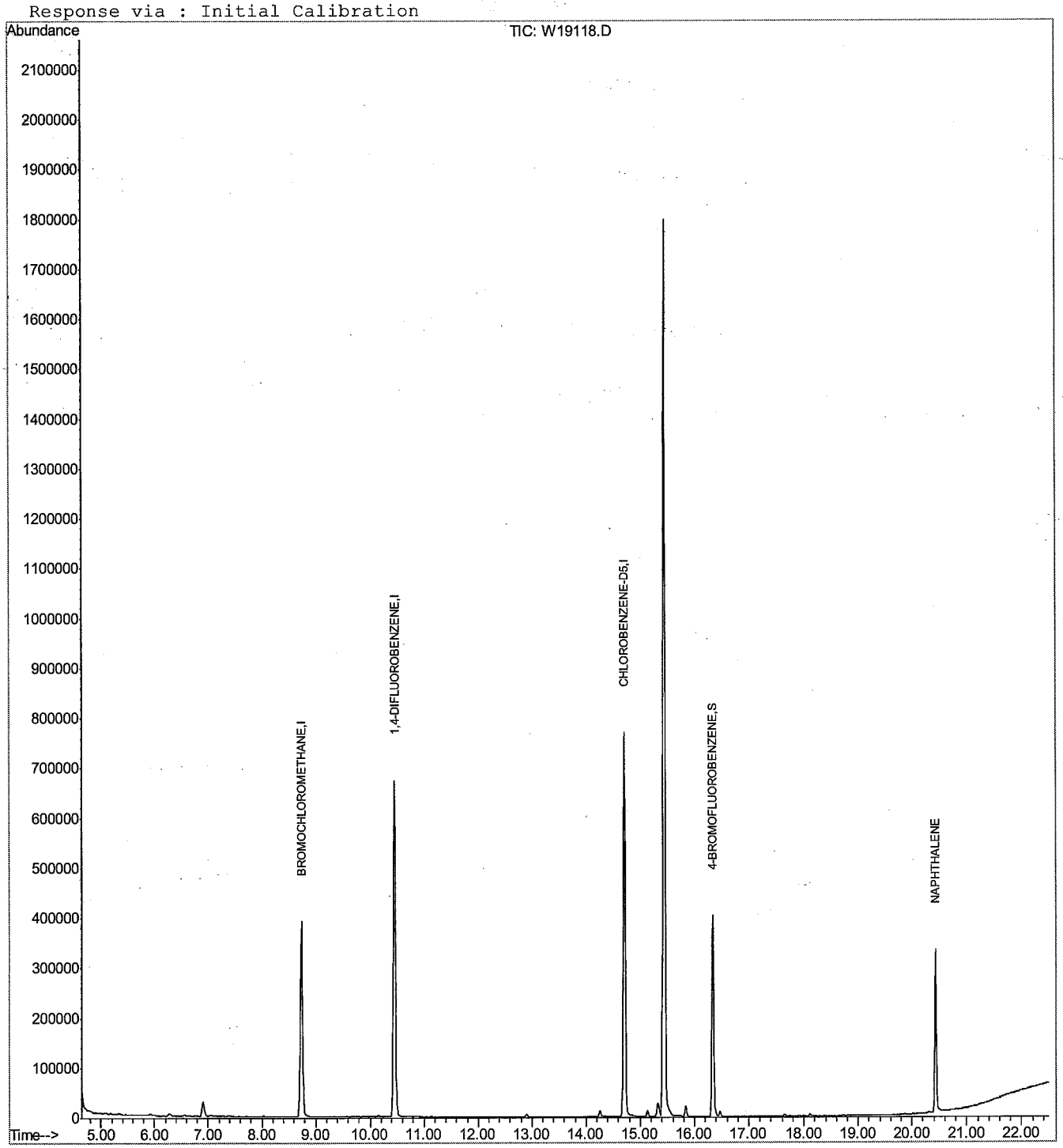
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19118.D MW816.M Tue Dec 09 10:33:54 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19118.D
Acq On : 9 Dec 2008 1:33 am
Sample : IC816-10
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:14 2008

Vial: 6
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



6.7.7 6

ACCUTEST Laboratories JA8427

W19119.D
Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/12/08 13:04

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:36:18 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:36:11 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.8 6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	176960	10.00	PPBV	0.01
43) 1,4-DIFLUOROBENZENE	10.48	114	859301	10.00	PPBV	0.02
60) CHLOROBENZENE-D5	14.72	117	788240	10.00	PPBV	0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.36	95	258377	5.08	PPBV	0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 101.60%			
Target Compounds						Qvalue
3) FREON 152A	4.71	65	619484	33.37	PPBV #	87
4) CHLORODIFLUOROMETHANE	4.74	67	213069	34.54	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.84	85	2422134	34.53	PPBV	97
6) PROPYLENE	4.77	41	677145	27.43	PPBV	98
7) FREON 114	5.06	85	2920421	34.23	PPBV	89
8) CHLOROMETHANE	4.98	50	929615m	27.16	PPBV	
9) VINYL CHLORIDE	5.18	62	1146790	34.59	PPBV	99
10) 1,3-BUTADIENE	5.29	54	853516	34.02	PPBV #	86
11) n-BUTANE	5.34	43	1547251	30.70	PPBV #	93
12) BROMOMETHANE	5.52	94	1021078	35.94	PPBV	99
13) CHLOROETHANE	5.66	64	656152	35.34	PPBV	96
14) FREON 123	6.06	85	1528728	33.65	PPBV	98
15) TRICHLOROFLUOROMETHANE	6.29	101	2577682	35.19	PPBV	99
16) ISOPROPYL ALCOHOL	6.44	45	1288770	35.73	PPBV	99
17) ACETONE	6.17	58	499483	35.98	PPBV #	69
18) PENTANE	6.57	42	772239	26.68	PPBV	88
19) TVHC as EQUIV PENTANE	6.57	TIC	5738093m	0.46	PPBV	
20) ETHYL ETHER	6.59	74	541602	34.31	PPBV	79
21) 1,1-DICHLOROETHYLENE	6.82	96	1156372	33.20	PPBV #	71
22) CARBON DISULFIDE	7.20	76	3194205	34.36	PPBV	94
23) ETHANOL	5.82	45	366381	33.81	PPBV	99
24) BROMOETHENE	5.96	106	1027848	36.31	PPBV #	98
25) METHYLENE CHLORIDE	6.91	84	1017670	32.16	PPBV	75
26) 3-CHLOROPROPENE	7.01	76	528586	36.94	PPBV #	46
27) FREON 113	7.11	151	1973727	36.47	PPBV #	79
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	1116178	34.06	PPBV #	81
29) TERTIARY BUTYL ALCOHOL	6.95	59	1135618	45.62	PPBV #	1
30) METHYL TERTIARY BUTYL ETHE	7.93	73	2868482	36.79	PPBV	91
31) TETRAHYDROFURAN	9.26	42	1034819	36.41	PPBV	78
32) HEXANE	8.74	57	1701447	32.54	PPBV	89
33) VINYL ACETATE	7.99	86	310045	41.86	PPBV #	24
34) 1,1-DICHLOROETHANE	7.87	63	1958731	34.48	PPBV	98
35) METHYL ETHYL KETONE	8.25	72	538028	40.06	PPBV #	56
36) cis-1,2-DICHLOROETHYLENE	8.60	96	1235040	35.31	PPBV #	82
37) ETHYL ACETATE	8.80	61	288668	38.69	PPBV #	45
38) CHLOROFORM	8.87	83	2124662	36.31	PPBV	95
39) 2,4-DIMETHYLPENTANE	9.54	57	1801771	29.94	PPBV #	93
40) 1,1,1-TRICHLOROETHANE	9.75	97	2184357	37.11	PPBV	94
41) CARBON TETRACHLORIDE	10.30	117	2291581	37.74	PPBV	99
42) 1,2-DICHLOROETHANE	9.53	62	1176617	35.19	PPBV	97
44) BENZENE	10.18	78	3602582	36.77	PPBV	97

(#) = qualifier out of range (m) = manual integration
W19119.D MW816.M Tue Dec 09 10:33:58 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 06:36:18 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:36:11 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.41	84	1676808	37.10 PPBV #	79
46) 2,3-DIMETHYLPENTANE	10.61	71	858715	36.58 PPBV	75
47) TRICHLOROETHYLENE	11.15	95	1230263	31.46 PPBV #	80
48) 1,2-DICHLOROPROPANE	10.93	63	1216516	35.93 PPBV	98
49) BROMODICHLOROMETHANE	11.12	83	1992285	34.60 PPBV	99
50) 2,2,4-TRIMETHYLPENTANE	11.16	57	3487199	23.35 PPBV	94
51) 1,4-DIOXANE	11.19	88	593953	41.08 PPBV #	74
52) METHYL METHACRYLATE	11.32	69	1237154	43.53 PPBV #	69
53) HEPTANE	11.38	43	1677212	31.50 PPBV #	73
54) TVHC as EQUIV HEPTANE	11.38	TIC	7878464m	0.65 PPBV	
55) METHYL ISOBUTYL KETONE	12.02	43	1845975	37.61 PPBV	82
56) cis-1,3-DICHLOROPROPENE	11.96	75	1905055	40.14 PPBV	95
57) TOLUENE	12.92	92	2622701	39.28 PPBV	95
58) trans-1,3-DICHLOROPROPENE	12.47	75	1859204	41.77 PPBV	87
59) 1,1,2-TRICHLOROETHANE	12.66	83	1158434	39.85 PPBV	96
61) 2-HEXANONE	13.19	43	1739033	36.90 PPBV	83
62) TETRACHLOROETHYLENE	14.06	164	1706242	38.72 PPBV	93
63) DIBROMOCHLOROMETHANE	13.37	129	2318448	39.15 PPBV	99
64) 1,2-DIBROMOETHANE	13.62	107	2111358	39.94 PPBV	100
65) OCTANE	13.86	43	2034148	28.15 PPBV #	68
66) CHLOROBENZENE	14.77	112	3354869	37.67 PPBV	90
67) ETHYLBENZENE	15.15	91	5201113	36.78 PPBV	95
68) m,p-XYLENE	15.35	106	3886914	68.92 PPBV	91
69) o-XYLENE	15.85	106	1798703	33.27 PPBV	88
70) STYRENE	15.74	104	3365108	42.05 PPBV	96
71) NONANE	16.05	43	1848705	28.20 PPBV	77
72) BROMOFORM	15.46	173	2310045	43.79 PPBV	98
74) 1,1,2,2-TETRACHLOROETHANE	15.86	83	1977958	31.83 PPBV	98
75) ISOPROPYLBENZENE	16.49	105	5196461	37.06 PPBV	95
76) 2-CHLOROTOLUENE	17.02	91	3616460	38.58 PPBV	91
77) 4-ETHYLTOLUENE	17.21	105	5022953	38.42 PPBV	95
78) 1,3,5-TRIMETHYLBENZENE	17.30	105	4345310	38.42 PPBV	94
79) 1,2,4-TRIMETHYLBENZENE	17.75	105	4203650	40.12 PPBV	94
80) m-DICHLOROBENZENE	17.94	146	2804659	40.22 PPBV	98
81) BENZYL CHLORIDE	17.91	91	3175777	43.08 PPBV	93
82) p-DICHLOROBENZENE	18.01	146	2812952	42.72 PPBV	98
83) o-DICHLOROBENZENE	18.39	146	2558486	43.01 PPBV	98
84) HEXACHLOROBUTADIENE	20.81	225	943422	42.43 PPBV	99
85) 1,2,4-TRICHLOROBENZENE	20.31	180	1107328	60.70 PPBV	99

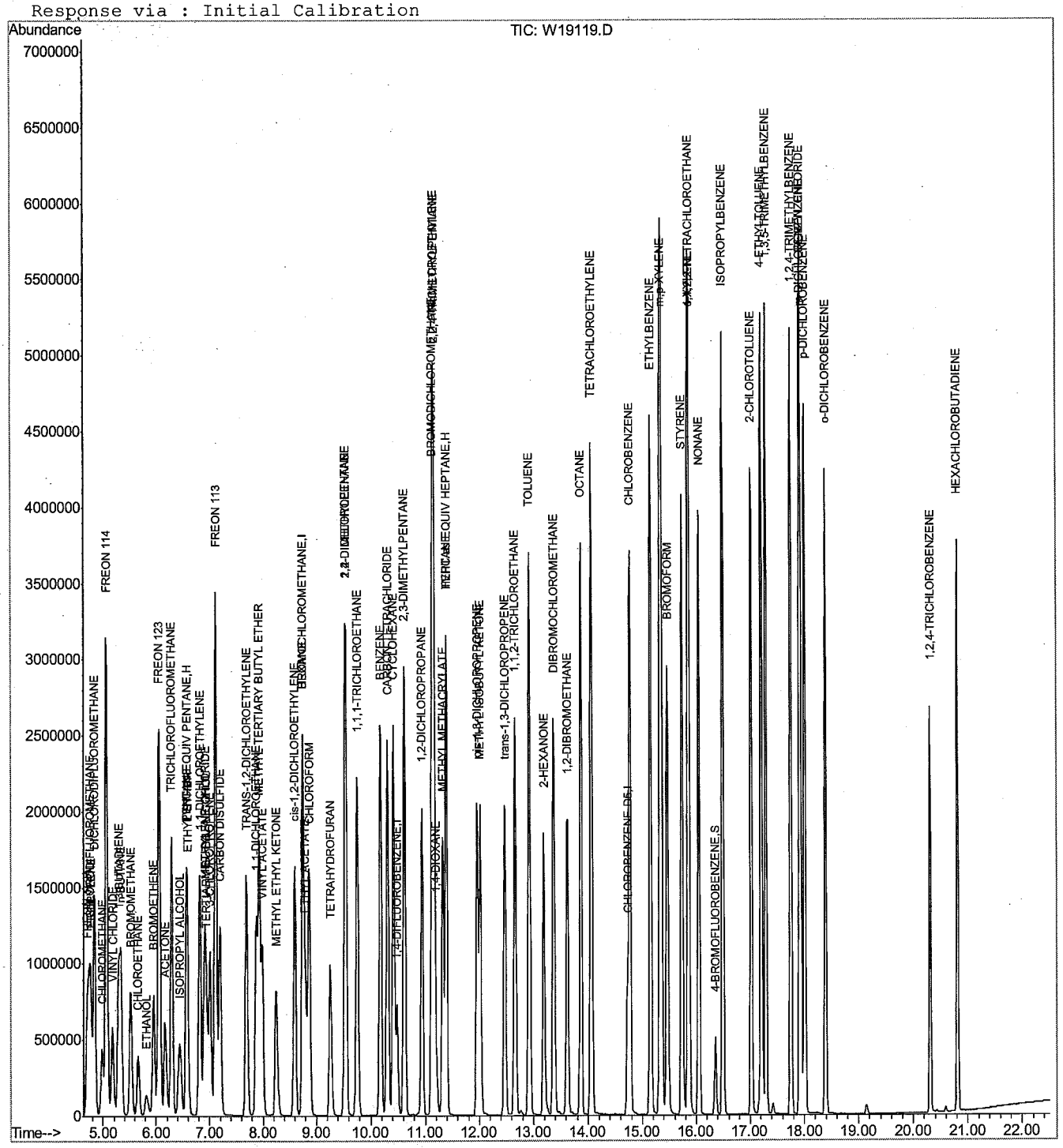
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19119.D MW816.M Tue Dec 09 10:33:58 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:06 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration

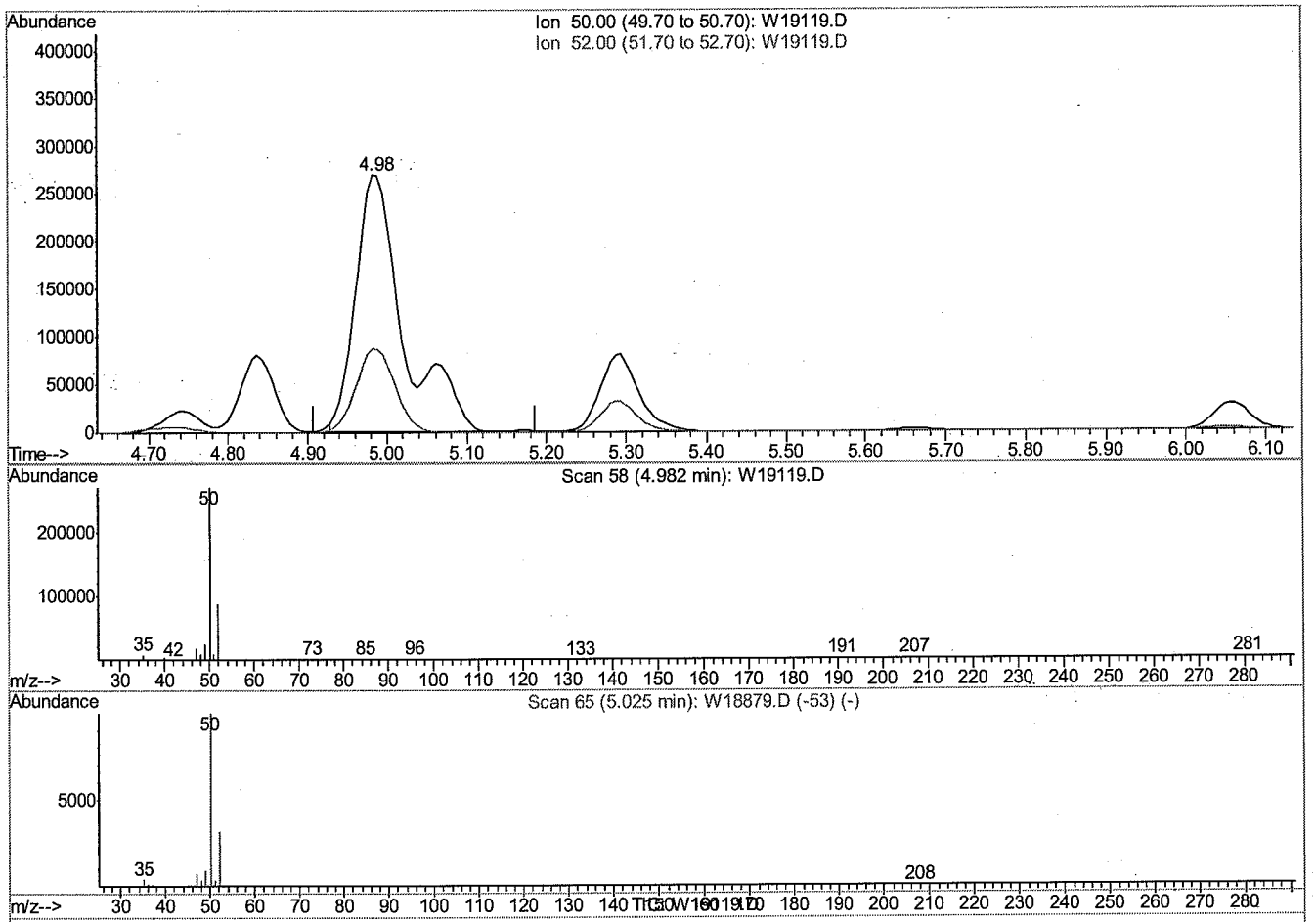


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:04 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 06:38:33 2008
Response via : Multiple Level Calibration



(8) CHLOROMETHANE

4.98min 32.55PPBV

response 1114012

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	32.73
0.00	0.00	0.00
0.00	0.00	0.00

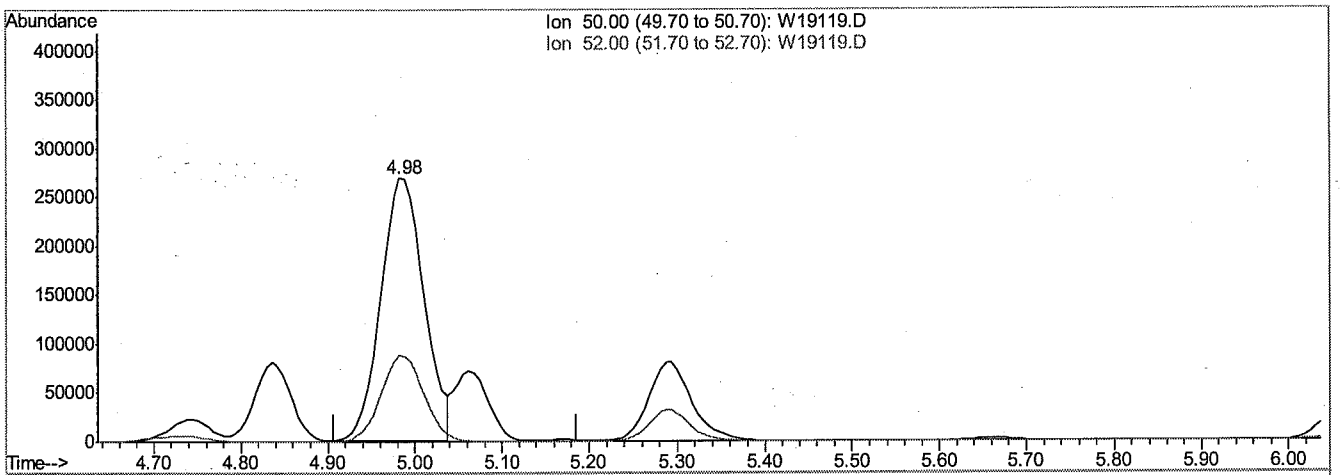
W19119.D MW816.M Tue Dec 09 09:05:13 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:06 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(8) CHLOROMETHANE

4.98min 27.16PPBV m

response 929615

Ion	Exp%	Act%
50.00	100	100
52.00	33.10	32.66
0.00	0.00	0.00
0.00	0.00	0.00

W19119.D MW816.M Wed Dec 10 09:15:11 2008 MSW

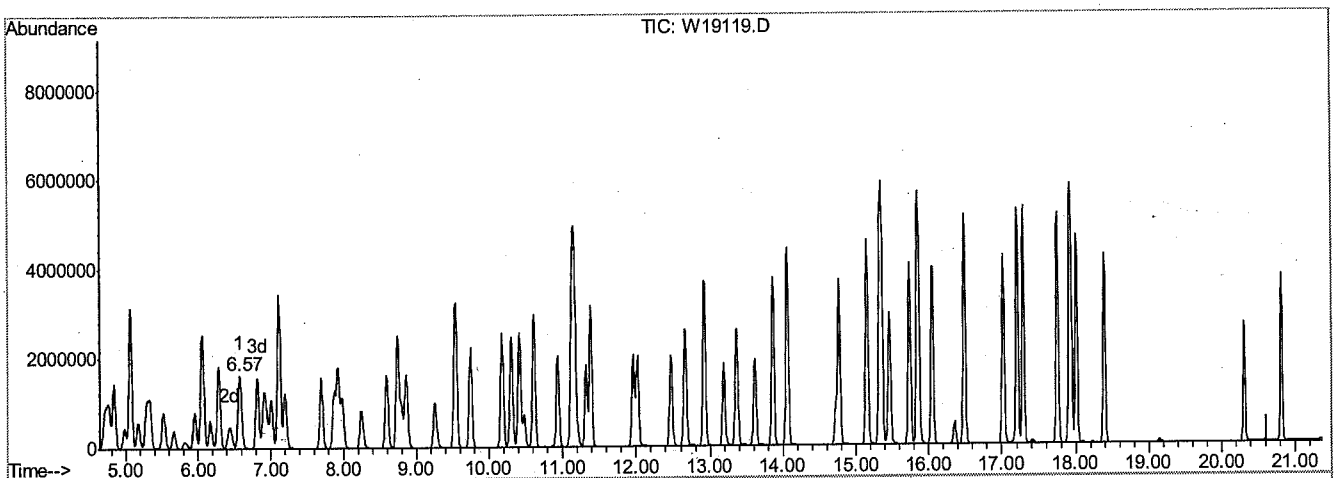
ACCUTEST Laboratories JA8427

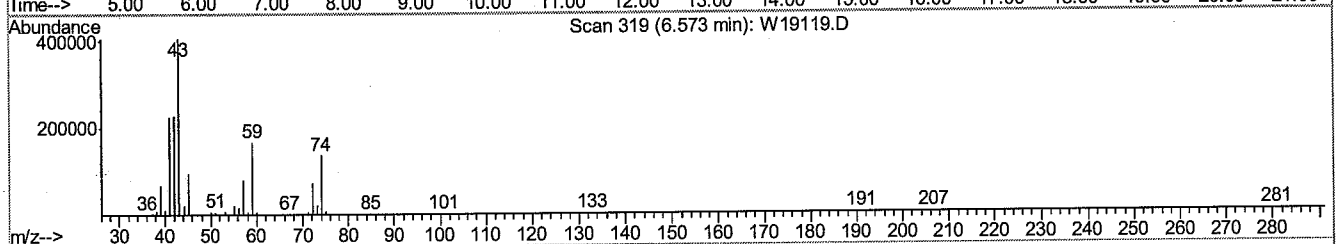
Quantitation Report (Qedit)

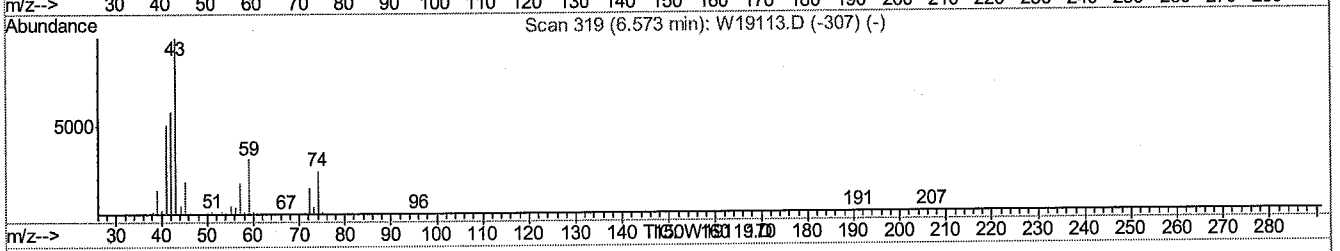
Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:06 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 0.46PPBV m

response 5738093

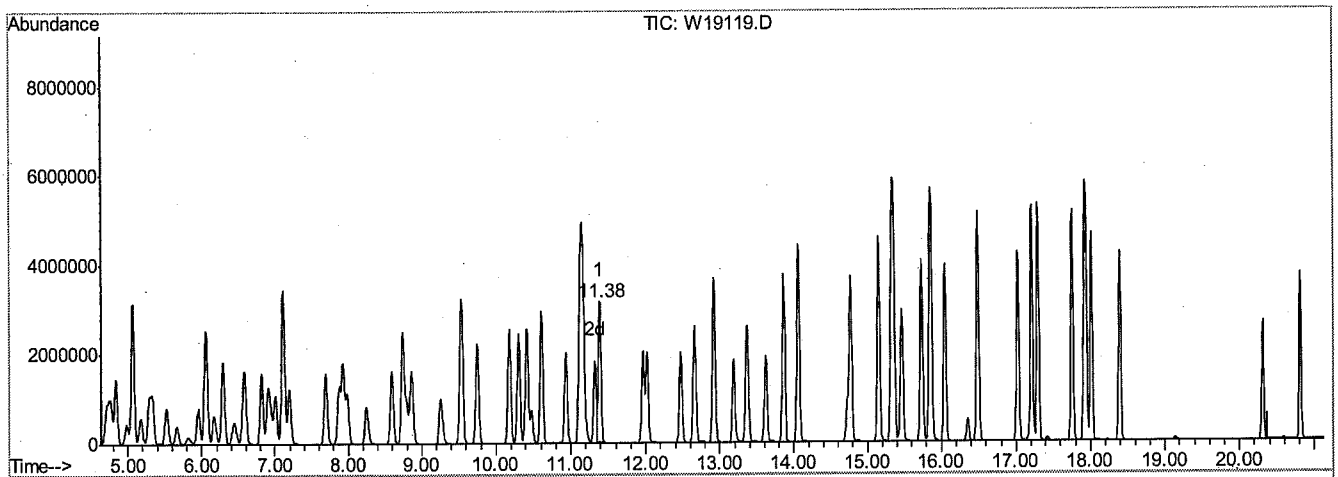
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.02#
0.00	0.00	0.02#
0.00	0.00	0.00

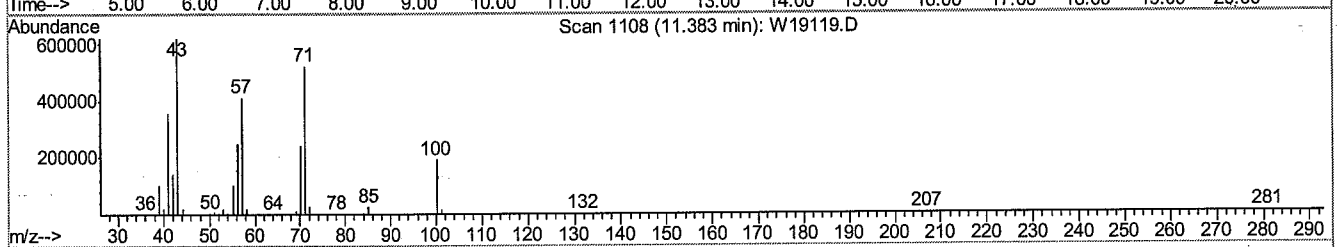
Quantitation Report (Qedit)

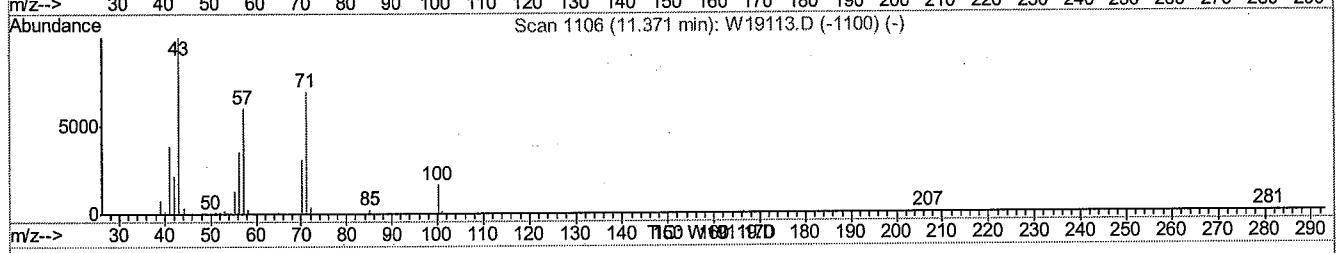
Data File : C:\MSDCHEM\1\DATA\W19119.D
Acq On : 9 Dec 2008 2:13 am
Sample : IC816-40
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:06 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.38min 0.65PPBV m

response 7878464

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.01#
0.00	0.00	0.00

W19119.D MW816.M Wed Dec 10 09:15:20 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19120.D
Acq On : 9 Dec 2008 2:53 am
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 09 09:14:28 2008

Vial: 7
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.74	128	191184	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	921764	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.71	117	758434	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	234013	4.77	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 95.40%			
Target Compounds						Qvalue
86) NAPHTHALENE	20.44	128	5899	0.15	PPBV	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19120.D MW816.M Tue Dec 09 10:34:01 2008 MSW

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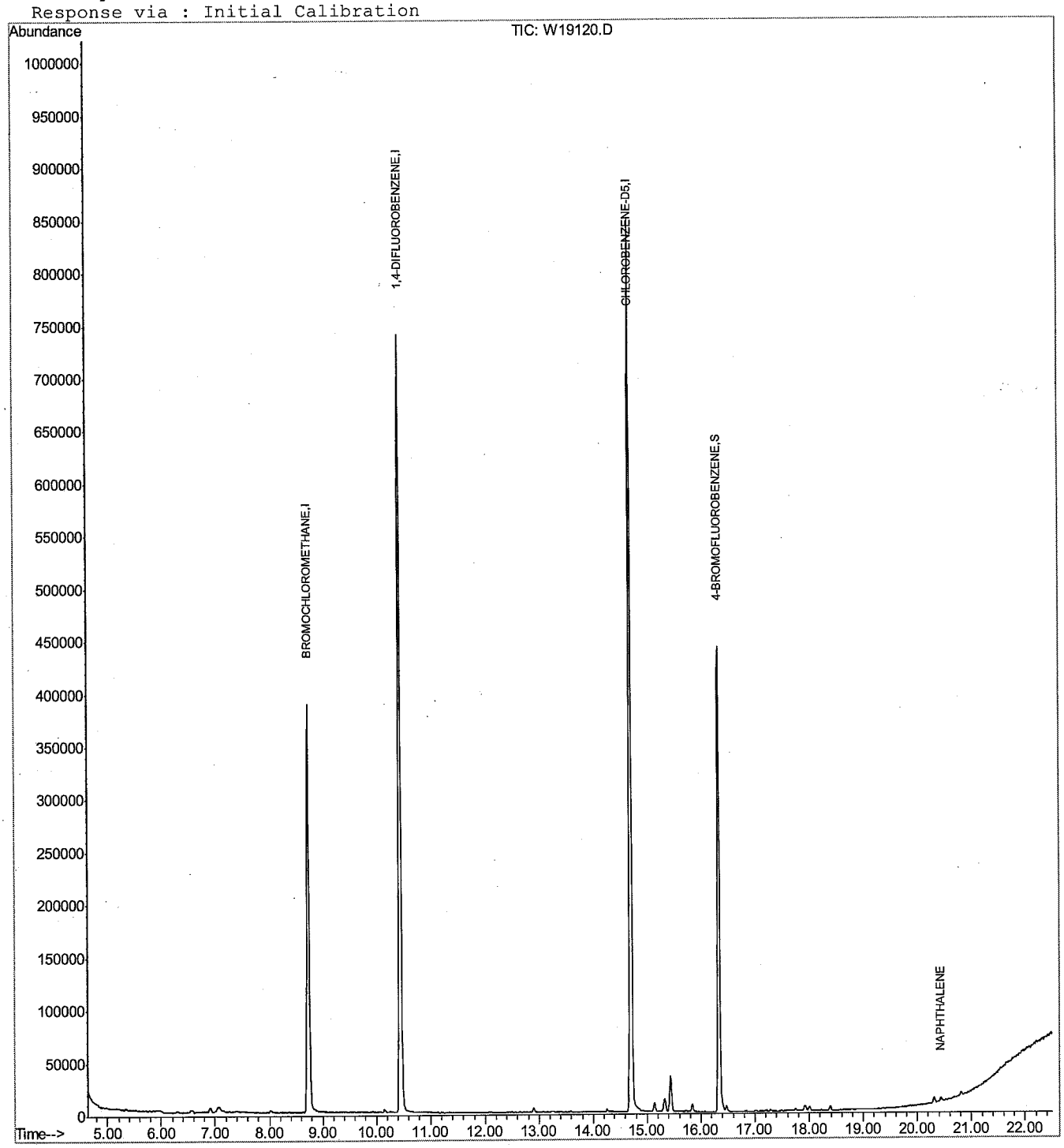
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19120.D
Acq On : 9 Dec 2008 2:53 am
Sample : IC816-0.2
Misc : MS49009,VW816,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 9 9:14 2008

Vial: 7
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



6.7.9

6

W19120.D MW816.M Tue Dec 09 10:34:01 2008 MSW

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JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19126.D
Acq On : 9 Dec 2008 12:10 pm
Sample : ICV816-10
Misc : MS49009,VW817,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 10 08:38:19 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	175649	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.44	114	878349	10.00	PPBV	-0.02
60) CHLOROBENZENE-D5	14.69	117	756356	10.00	PPBV	-0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.33	95	249532	5.10	PPBV	-0.01
Spiked Amount 5.000	Range	78 - 124	Recovery	=	102.00%	
Target Compounds						Qvalue
3) FREON 152A	4.70	65	153810	8.55	PPBV	98
4) CHLORODIFLUOROMETHANE	4.73	67	54302	9.04	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.83	85	616883	9.04	PPBV	100
6) PROPYLENE	4.76	41	191190	8.17	PPBV	99
7) FREON 114	5.06	85	752733	9.08	PPBV	100
8) CHLOROMETHANE	4.98	50	290496	10.54	PPBV	100
9) VINYL CHLORIDE	5.16	62	291545	9.03	PPBV	100
10) 1,3-BUTADIENE	5.28	54	228790	9.39	PPBV	95
11) n-BUTANE	5.32	43	446599	9.23	PPBV	99
12) BROMOMETHANE	5.52	94	247489	8.91	PPBV	100
13) CHLOROETHANE	5.65	64	164452	9.08	PPBV	100
14) FREON 123	6.04	85	421446	9.56	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.28	101	671130	9.39	PPBV	100
16) ISOPROPYL ALCOHOL	6.35	45	342691	9.63	PPBV	100
17) ACETONE	6.15	58	126287	9.30	PPBV	97
18) PENTANE	6.55	42	255764	9.35	PPBV	98
19) TVHC as EQUIV PENTANE	6.56	TIC	1727528m	9.89	PPBV	
20) ETHYL ETHER	6.57	74	142211	9.27	PPBV	98
21) 1,1-DICHLOROETHYLENE	6.80	96	280820	8.32	PPBV	93
22) CARBON DISULFIDE	7.18	76	832800	9.21	PPBV	99
23) ETHANOL	5.77	45	88231	8.39	PPBV	99
24) BROMOETHENE	5.95	106	270929	9.77	PPBV	100
25) METHYLENE CHLORIDE	6.89	84	252353	8.27	PPBV	94
26) 3-CHLOROPROPENE	6.99	76	135336	9.63	PPBV #	89
27) FREON 113	7.10	151	452749	8.54	PPBV	96
28) TRANS-1,2-DICHLOROETHYLENE	7.68	96	275608	8.66	PPBV	99
29) TERTIARY BUTYL ALCOHOL	6.84	59	346950	9.50	PPBV	97
30) METHYL TERTIARY BUTYL ETHE	7.90	73	710125	9.28	PPBV	100
31) TETRAHYDROFURAN	9.22	42	277263	9.96	PPBV	99
32) HEXANE	8.73	57	497620	9.85	PPBV	100
33) VINYL ACETATE	7.95	86	71198	9.62	PPBV #	95
34) 1,1-DICHLOROETHANE	7.85	63	520162	9.41	PPBV	100
35) METHYL ETHYL KETONE	8.19	72	124790	9.36	PPBV	98
36) cis-1,2-DICHLOROETHYLENE	8.57	96	298938	8.76	PPBV	98
37) ETHYL ACETATE	8.74	61	71501	9.70	PPBV	97
38) CHLOROFORM	8.83	83	537743	9.38	PPBV	100
39) 2,4-DIMETHYLPENTANE	9.51	57	582701	10.12	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.72	97	548638	9.49	PPBV	100
41) CARBON TETRACHLORIDE	10.28	117	571167	9.55	PPBV	100
42) 1,2-DICHLOROETHANE	9.49	62	317255	9.73	PPBV	99
44) BENZENE	10.15	78	906998	9.16	PPBV	100

(#) = qualifier out of range (m) = manual integration
W19126.D MW816.M Wed Dec 10 09:09:30 2008 MSW

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19126.D
Acq On : 9 Dec 2008 12:10 pm
Sample : ICV816-10
Misc : MS49009,VW817,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 10 08:38:19 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.10

6

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45) CYCLOHEXANE	10.39	84	421345	9.22	PPBV		99
46) 2,3-DIMETHYLPENTANE	10.58	71	226516	9.56	PPBV		98
47) TRICHLOROETHYLENE	11.11	95	377194	9.73	PPBV		100
48) 1,2-DICHLOROPROPANE	10.90	63	319013	9.35	PPBV		100
49) BROMODICHLOROMETHANE	11.08	83	576116	9.98	PPBV		100
50) 2,2,4-TRIMETHYLPENTANE	11.12	57	1558456	10.85	PPBV		100
51) 1,4-DIOXANE	11.15	88	138011	9.30	PPBV	#	1
52) METHYL METHACRYLATE	11.27	69	276034	9.38	PPBV		97
53) HEPTANE	11.35	43	533244	10.10	PPBV		99
54) TVHC as EQUIV HEPTANE	11.35	TIC	2322705m	9.65	PPBV		
55) METHYL ISOBUTYL KETONE	11.96	43	496995	9.99	PPBV		99
56) cis-1,3-DICHLOROPROPENE	11.93	75	469806	9.68	PPBV		99
57) TOLUENE	12.89	92	631994	9.28	PPBV		100
58) trans-1,3-DICHLOROPROPENE	12.43	75	454525	9.93	PPBV		99
59) 1,1,2-TRICHLOROETHANE	12.61	83	279310	9.41	PPBV		99
61) 2-HEXANONE	13.15	43	447334	10.00	PPBV		98
62) TETRACHLOROETHYLENE	14.04	164	384841	9.14	PPBV		99
63) DIBROMOCHLOROMETHANE	13.33	129	566768	10.00	PPBV		100
64) 1,2-DIBROMOETHANE	13.58	107	484355	9.55	PPBV		100
65) OCTANE	13.84	43	714914	10.76	PPBV		97
66) CHLOROBENZENE	14.74	112	775930	9.16	PPBV		99
67) ETHYLBENZENE	15.13	91	1294349	9.65	PPBV		99
68) m,p-XYLENE	15.32	106	1039943	19.61	PPBV		100
69) o-XYLENE	15.83	106	505328	9.98	PPBV		98
70) STYRENE	15.71	104	763860	9.87	PPBV		99
71) NONANE	16.03	43	711121	11.80	PPBV		98
72) BROMOFORM	15.43	173	524639	10.23	PPBV		100
74) 1,1,2,2-TETRACHLOROETHANE	15.83	83	620188	10.71	PPBV		100
75) ISOPROPYLBENZENE	16.47	105	1401569	10.53	PPBV		99
76) 2-CHLOROTOLUENE	17.00	91	956336	10.69	PPBV		99
77) 4-ETHYLTOLUENE	17.19	105	1310858	10.51	PPBV		99
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	1095204	10.15	PPBV		99
79) 1,2,4-TRIMETHYLBENZENE	17.74	105	1039366	10.33	PPBV		99
80) m-DICHLOROBENZENE	17.92	146	680746	10.17	PPBV		99
81) BENZYL CHLORIDE	17.90	91	845718	11.83	PPBV		99
82) p-DICHLOROBENZENE	17.99	146	644953	10.11	PPBV		99
83) o-DICHLOROBENZENE	18.38	146	578487	10.03	PPBV		99
84) HEXACHLOROBUTADIENE	20.81	225	242931	11.29	PPBV		100
85) 1,2,4-TRICHLOROBENZENE	20.31	180	228159	12.14	PPBV		100

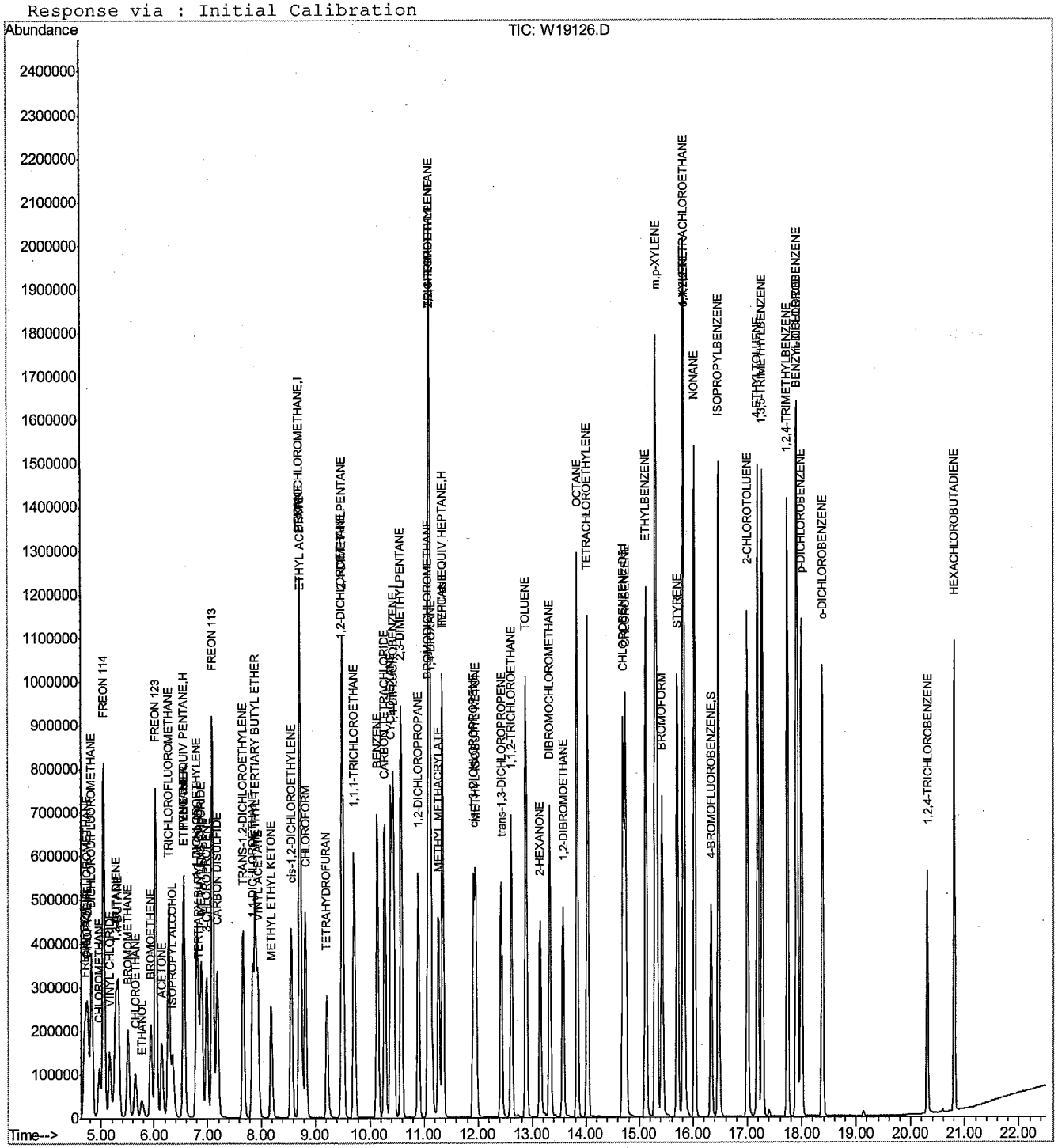
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19126.D MW816.M Wed Dec 10 09:09:31 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19126.D
Acq On : 9 Dec 2008 12:10 pm
Sample : ICV816-10
Misc : MS49009,VW817,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 10 9:08 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



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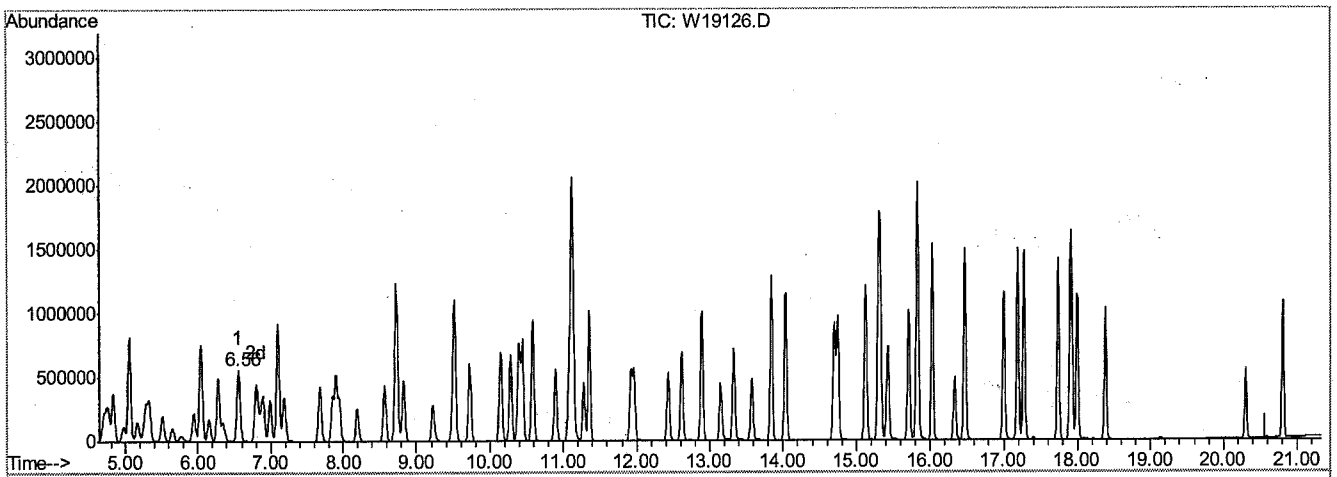
6.7.10 9

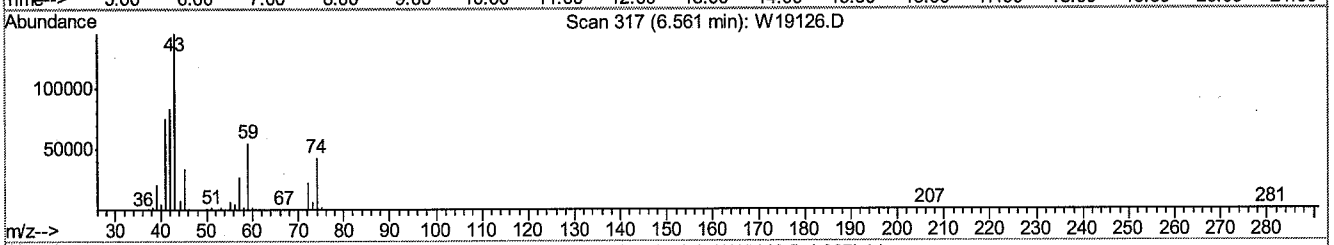
Quantitation Report (Qedit)

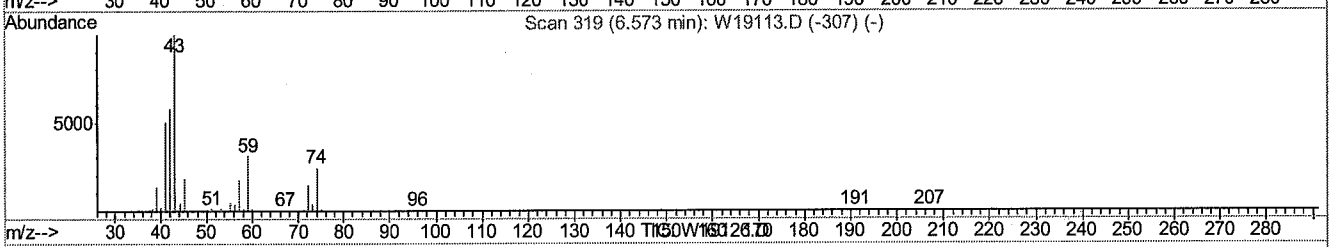
Data File : C:\MSDCHEM\1\DATA\W19126.D
Acq On : 9 Dec 2008 12:10 pm
Sample : ICV816-10
Misc : MS49009,VW817,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 10 9:08 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.56min 9.89PPBV m

response 1727528

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

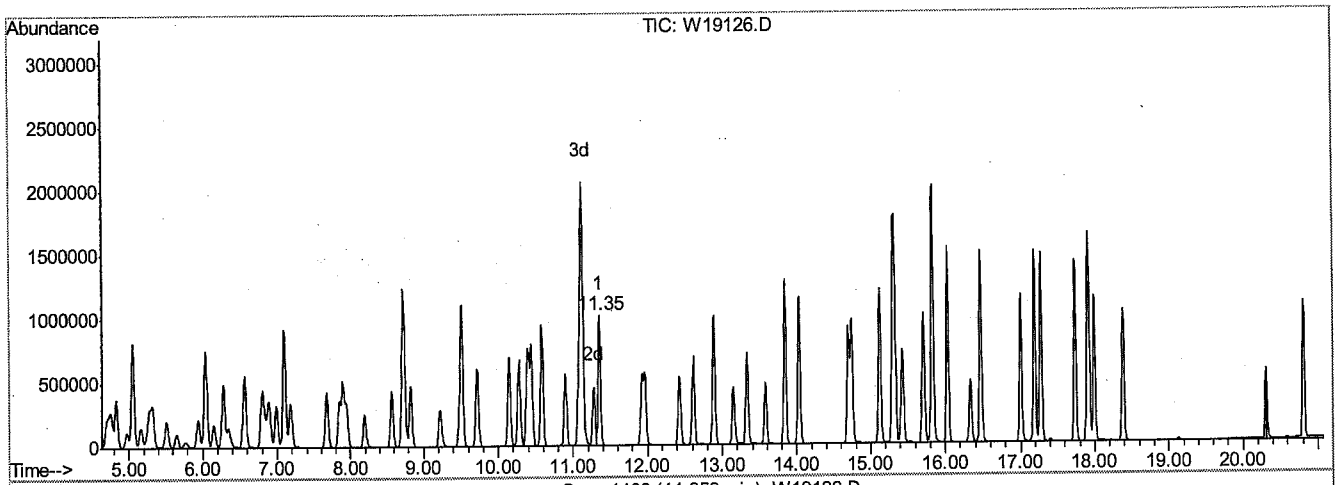
W19126.D MW816.M Wed Dec 10 09:10:28 2008 MSW

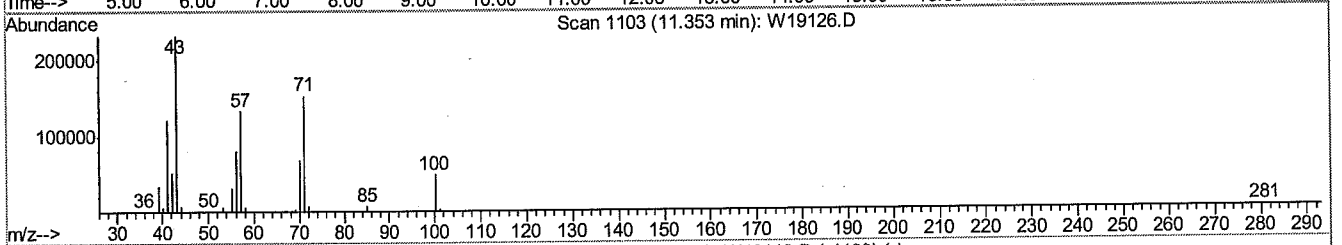
Quantitation Report (Qedit)

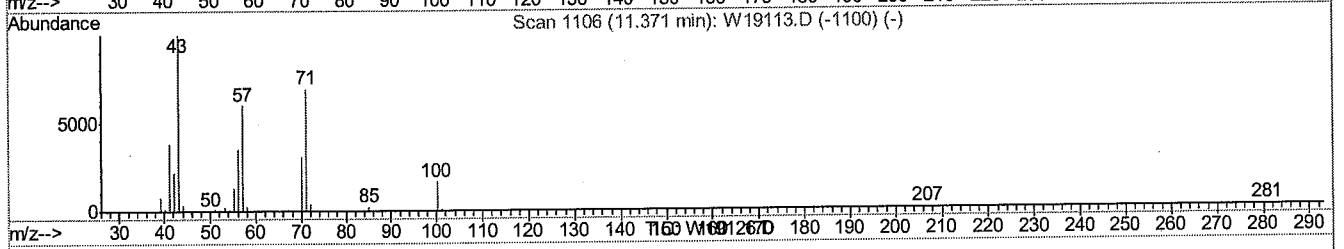
Data File : C:\MSDCHEM\1\DATA\W19126.D
Acq On : 9 Dec 2008 12:10 pm
Sample : ICV816-10
Misc : MS49009,VW817,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 10 9:08 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.35min 9.65PPBV m

response 2322705

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19126.D MW816.M Wed Dec 10 09:10:32 2008 MSW

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:45:47 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	155001	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.45	114	797127	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.70	117	674816	10.00	PPBV	-0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	222928	5.11	PPBV	0.00
Spiked Amount 5.000	Range	78 - 124	Recovery	=	102.20%	
Target Compounds						Qvalue
3) FREON 152A	4.71	65	71771	4.52	PPBV	99
4) CHLORODIFLUOROMETHANE	4.76	67	28248	5.33	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.85	85	325413	5.40	PPBV	100
6) PROPYLENE	4.78	41	79439	3.85	PPBV	99
7) FREON 114	5.07	85	390696	5.34	PPBV	98
8) CHLOROMETHANE	4.99	50	139611	5.74	PPBV	98
9) VINYL CHLORIDE	5.18	62	142759	5.01	PPBV	100
10) 1,3-BUTADIENE	5.30	54	106914	4.97	PPBV	100
11) n-BUTANE	5.34	43	207414	4.86	PPBV	99
12) BROMOMETHANE	5.54	94	129041	5.26	PPBV	100
13) CHLOROETHANE	5.67	64	82239	5.14	PPBV	99
14) FREON 123	6.06	85	206366	5.31	PPBV	100
15) TRICHLOROFLUOROMETHANE	6.29	101	376759	5.97	PPBV	100
16) ISOPROPYL ALCOHOL	6.39	45	173034	5.51	PPBV	97
17) ACETONE	6.18	58	56744	4.73	PPBV	92
18) PENTANE	6.57	42	132933	5.50	PPBV	98
19) TVHC as EQUIV PENTANE	6.58	TIC	888275m	5.76	PPBV	
20) ETHYL ETHER	6.59	74	68432	5.05	PPBV	99
21) 1,1-DICHLOROETHYLENE	6.82	96	149698	5.03	PPBV	95
22) CARBON DISULFIDE	7.20	76	423572	5.31	PPBV	99
23) ETHANOL	5.81	45	41417	4.46	PPBV	100
24) BROMOETHENE	5.96	106	130018	5.31	PPBV	100
25) METHYLENE CHLORIDE	6.91	84	129351	4.80	PPBV	96
26) 3-CHLOROPROPENE	7.01	76	64656	5.22	PPBV	92
27) FREON 113	7.12	151	233789	4.99	PPBV	97
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	135773	4.83	PPBV	98
29) TERTIARY BUTYL ALCOHOL	6.89	59	179530	5.57	PPBV	93
30) METHYL TERTIARY BUTYL ETHE	7.93	73	343111	5.08	PPBV	99
31) TETRAHYDROFURAN	9.25	42	123427	5.02	PPBV	98
32) HEXANE	8.74	57	237006	5.32	PPBV	98
33) VINYL ACETATE	7.96	86	32815	5.02	PPBV	96
34) 1,1-DICHLOROETHANE	7.87	63	260970	5.35	PPBV	99
35) METHYL ETHYL KETONE	8.22	72	59287	5.04	PPBV	98
36) cis-1,2-DICHLOROETHYLENE	8.59	96	146808	4.87	PPBV	97
37) ETHYL ACETATE	8.77	61	33289	5.12	PPBV #	91
38) CHLOROFORM	8.84	83	280183	5.54	PPBV	100
39) 2,4-DIMETHYLPENTANE	9.52	57	282544	5.56	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.73	97	293714	5.76	PPBV	99
41) CARBON TETRACHLORIDE	10.29	117	312638	5.93	PPBV	100
42) 1,2-DICHLOROETHANE	9.50	62	166641	5.79	PPBV	99
44) BENZENE	10.15	78	438209	4.88	PPBV	100

(#) = qualifier out of range (m) = manual integration
W19149.D MW816.M Thu Dec 11 10:03:43 2008 MSW

6.7.11 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 08:45:47 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW816.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.11 6

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.40	84	205779	4.96 PPBV	96
46) 2,3-DIMETHYLPENTANE	10.59	71	108942	5.06 PPBV	97
47) TRICHLOROETHYLENE	11.12	95	185163	5.27 PPBV	99
48) 1,2-DICHLOROPROPANE	10.91	63	148629	4.80 PPBV	97
49) BROMODICHLOROMETHANE	11.09	83	284229	5.43 PPBV	99
50) 2,2,4-TRIMETHYLPENTANE	11.13	57	730018	5.60 PPBV	99
51) 1,4-DIOXANE	11.18	88	66762	4.96 PPBV #	82
52) METHYL METHACRYLATE	11.29	69	129559	4.85 PPBV	98
53) HEPTANE	11.36	43	254700	5.32 PPBV	99
54) TVHC as EQUIV HEPTANE	11.37	TIC	1130870m	5.18 PPBV	
55) METHYL ISOBUTYL KETONE	11.99	43	243799	5.40 PPBV	99
56) cis-1,3-DICHLOROPROPENE	11.93	75	224306	5.09 PPBV	96
57) TOLUENE	12.90	92	291908	4.72 PPBV	99
58) trans-1,3-DICHLOROPROPENE	12.44	75	218298	5.25 PPBV	98
59) 1,1,2-TRICHLOROETHANE	12.62	83	128756	4.78 PPBV	99
61) 2-HEXANONE	13.17	43	221169	5.54 PPBV	97
62) TETRACHLOROETHYLENE	14.04	164	182567	4.86 PPBV	97
63) DIBROMOCHLOROMETHANE	13.33	129	269424	5.33 PPBV	99
64) 1,2-DIBROMOETHANE	13.58	107	225030	4.97 PPBV	100
65) OCTANE	13.85	43	334010	5.64 PPBV	97
66) CHLOROBENZENE	14.75	112	362505	4.79 PPBV	98
67) ETHYLBENZENE	15.13	91	593269	4.96 PPBV	98
68) m,p-XYLENE	15.32	106	464839	9.82 PPBV	97
69) o-XYLENE	15.83	106	222979	4.94 PPBV	95
70) STYRENE	15.71	104	336291	4.87 PPBV	98
71) NONANE	16.03	43	301927	5.62 PPBV	97
72) BROMOFORM	15.43	173	232020	5.07 PPBV	99
74) 1,1,2,2-TETRACHLOROETHANE	15.83	83	269777	5.22 PPBV	100
75) ISOPROPYLBENZENE	16.47	105	596727	5.02 PPBV	98
76) 2-CHLOROTOLUENE	17.01	91	406999	5.10 PPBV	98
77) 4-ETHYLTOLUENE	17.19	105	568793	5.11 PPBV	97
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	484335	5.03 PPBV	98
79) 1,2,4-TRIMETHYLBENZENE	17.74	105	457495	5.10 PPBV	97
80) m-DICHLOROBENZENE	17.92	146	291126	4.87 PPBV	98
81) BENZYL CHLORIDE	17.90	91	355833	5.58 PPBV	97
82) p-DICHLOROBENZENE	18.00	146	273636	4.81 PPBV	99
83) o-DICHLOROBENZENE	18.38	146	246850	4.80 PPBV	99
84) HEXACHLOROBUTADIENE	20.81	225	98106	5.11 PPBV	100
85) 1,2,4-TRICHLOROBENZENE	20.31	180	89477	5.33 PPBV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19149.D MW816.M Thu Dec 11 10:03:44 2008 MSW

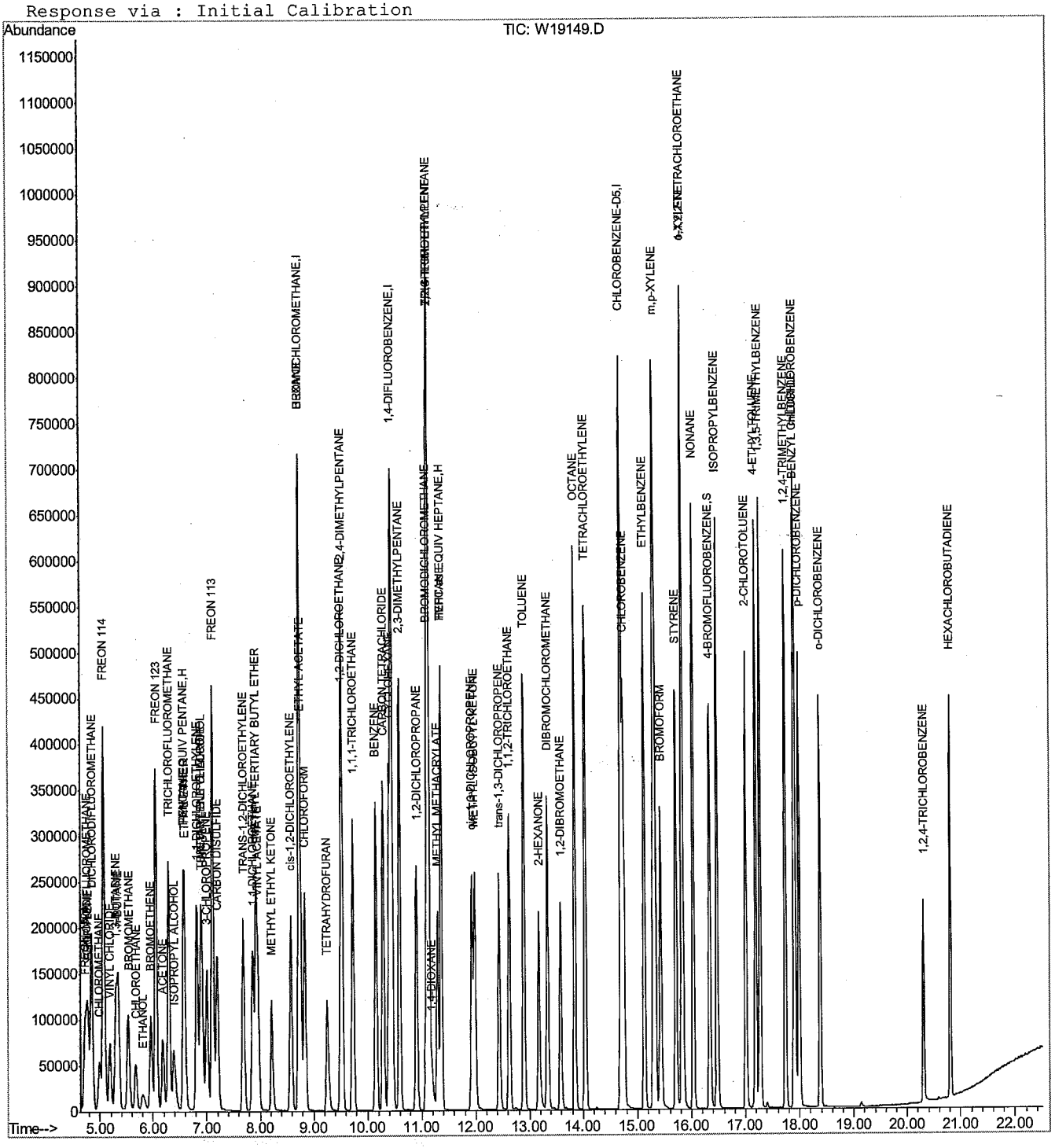
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:36 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00

Quant Results File: MW816.RES

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Initial Calibration



ACCUTEST Laboratories JA8427

6.7.11 6

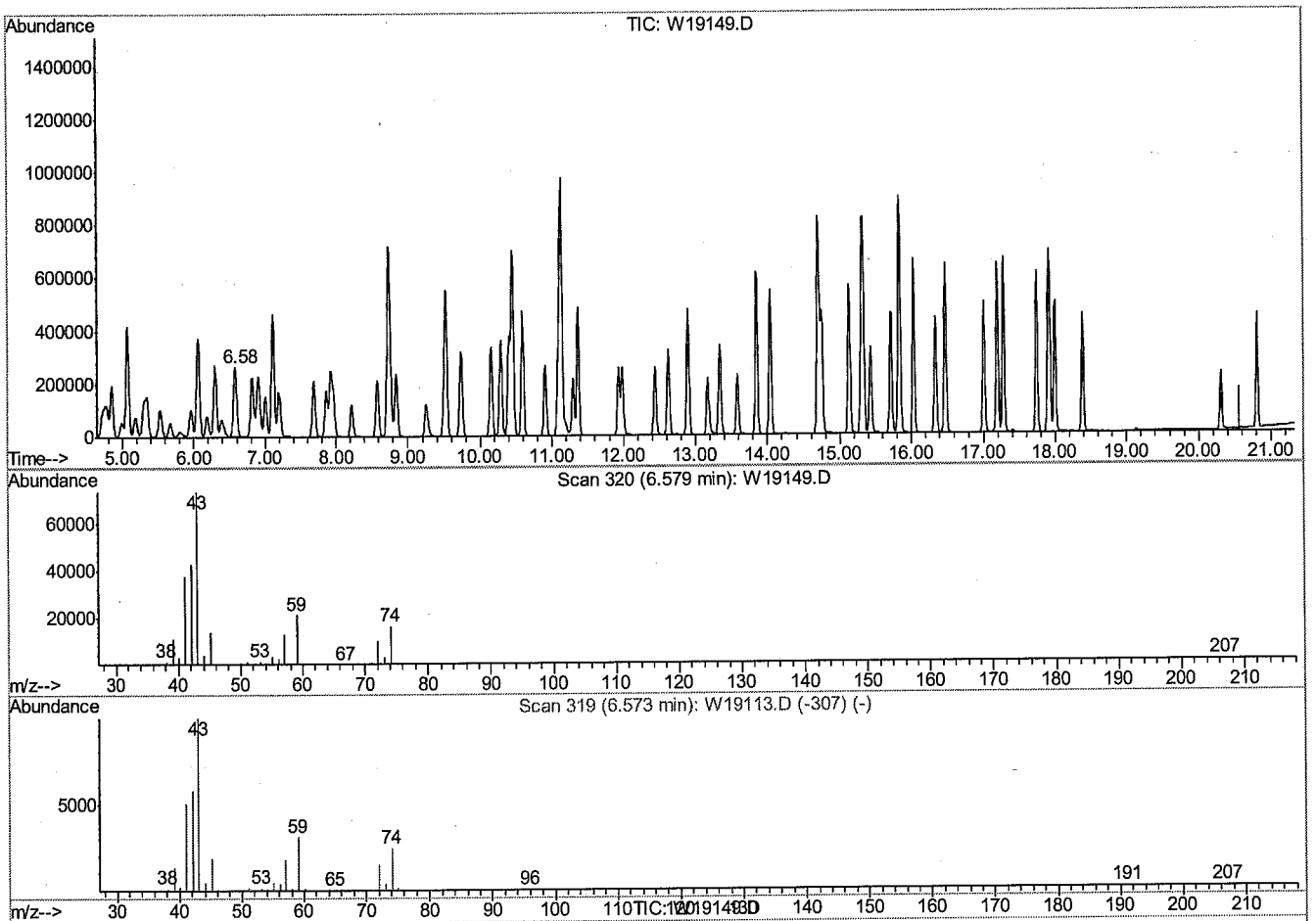
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:36 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration



(19) TVHC as EQUIV PENTANE (H)

6.58min 5.76PPBV m

response 888275

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19149.D MW816.M Thu Dec 11 10:04:03 2008 MSW

Quantitation Report (Qedit)

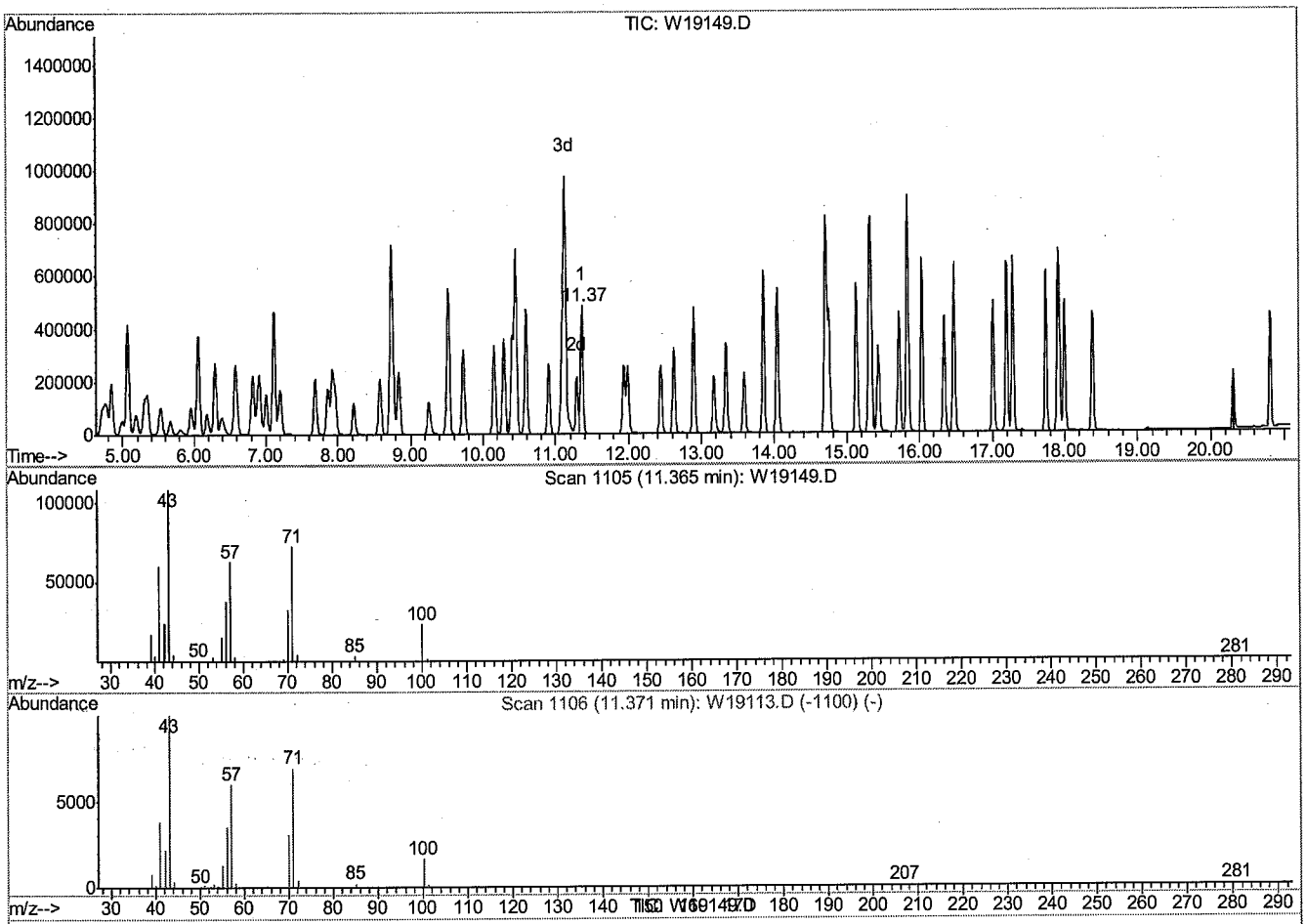
Data File : C:\MSDCHEM\1\DATA\W19149.D
Acq On : 10 Dec 2008 10:24 am
Sample : CC816-5
Misc : MS49009,VW818,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 11 9:36 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW816.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 09 09:08:10 2008
Response via : Multiple Level Calibration

6.7.11.2

6



(54) TVHC as EQUIV HEPTANE (H)

11.37min 5.18PPBV m

response 1130870

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19149.D MW816.M Thu Dec 11 11:19:31 2008 MSW

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19471.D
Acq On : 30 Dec 2008 5:51 pm
Sample : ICC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:57:17 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 08:57:13 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.71	128	144054	10.00	PPBV	-0.01
43) 1,4-DIFLUOROBENZENE	10.43	114	745736	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.68	117	649052	10.00	PPBV	-0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.31	95	231509	4.88	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 97.60%			
Target Compounds						Qvalue
3) FREON 152A	4.70	65	152620	9.10	PPBV #	87
4) CHLORODIFLUOROMETHANE	4.74	67	73233	8.35	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.83	85	727258	8.70	PPBV	99
6) PROPYLENE	4.77	41	203141	8.13	PPBV	96
7) FREON 114	5.06	85	727116	9.13	PPBV	100
8) CHLOROMETHANE	4.98	52	70546	8.64	PPBV	95
9) VINYL CHLORIDE	5.17	62	262817	8.95	PPBV	99
10) 1,3-BUTADIENE	5.28	54	201997	8.78	PPBV #	86
11) n-BUTANE	5.32	43	422149	8.23	PPBV	97
12) BROMOMETHANE	5.52	94	216208	9.31	PPBV	100
13) CHLOROETHANE	5.65	64	140467	8.90	PPBV	98
14) FREON 123	6.04	85	365374	9.06	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.27	101	778976	8.44	PPBV	100
16) ISOPROPYL ALCOHOL	6.41	45	364971	7.78	PPBV	98
17) ACETONE	6.15	58	108305	8.14	PPBV #	69
18) PENTANE	6.55	42	265816	7.25	PPBV	93
19) TVHC as EQUIV PENTANE	6.55	TIC	1767412m	8.06	PPBV	
20) ETHYL ETHER	6.57	74	126240	8.77	PPBV	90
21) 1,1-DICHLOROETHYLENE	6.80	96	247175	8.91	PPBV #	81
22) CARBON DISULFIDE	7.17	76	690215	8.77	PPBV	95
23) ETHANOL	5.83	45	82739	8.17	PPBV	99
24) BROMOETHENE	5.94	106	223541	9.34	PPBV	99
25) METHYLENE CHLORIDE	6.88	84	211966	8.39	PPBV	90
26) 3-CHLOROPROPENE	6.98	76	110418	9.00	PPBV #	68
27) FREON 113	7.09	151	453762	9.28	PPBV	98
28) TRANS-1,2-DICHLOROETHYLENE	7.66	96	229428	9.20	PPBV #	85
29) TERTIARY BUTYL ALCOHOL	6.90	59	385464	8.69	PPBV	97
30) METHYL TERTIARY BUTYL ETHE	7.89	73	769726	9.02	PPBV	96
31) TETRAHYDROFURAN	9.22	42	292220	8.82	PPBV	85
32) HEXANE	8.72	57	448370	8.95	PPBV	89
33) VINYL ACETATE	7.94	86	62602	10.43	PPBV #	21
34) 1,1-DICHLOROETHANE	7.84	63	509982	8.76	PPBV	99
35) METHYL ETHYL KETONE	8.20	72	111536	10.12	PPBV #	57
36) cis-1,2-DICHLOROETHYLENE	8.56	96	257648	9.68	PPBV #	83
37) ETHYL ACETATE	8.74	61	65217	9.84	PPBV #	48
38) CHLOROFORM	8.82	83	577636	8.98	PPBV	98
39) 2,4-DIMETHYLPENTANE	9.50	57	539145	9.17	PPBV	96
40) 1,1,1-TRICHLOROETHANE	9.70	97	654351	8.87	PPBV	98
41) CARBON TETRACHLORIDE	10.26	117	692563	8.88	PPBV	100
42) 1,2-DICHLOROETHANE	9.48	62	415569	8.33	PPBV	98
44) BENZENE	10.13	78	804396	9.50	PPBV	96

(#) = qualifier out of range (m) = manual integration
W19471.D MW830.M Wed Dec 31 10:33:15 2008 MSW

6.7.12
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19471.D
Acq On : 30 Dec 2008 5:51 pm
Sample : ICC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:57:17 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 08:57:13 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.12

6

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.37	84	355138	9.25	PPBV	#	84
46)	2,3-DIMETHYLPENTANE	10.57	71	196703	9.28	PPBV		83
47)	TRICHLOROETHYLENE	11.10	95	367872	9.08	PPBV		93
48)	1,2-DICHLOROPROPANE	10.89	63	295107	9.10	PPBV		95
49)	BROMODICHLOROMETHANE	11.08	83	638867	8.70	PPBV		99
50)	2,2,4-TRIMETHYLPENTANE	11.11	57	1465184	9.18	PPBV		99
51)	1,4-DIOXANE	11.15	88	122078	10.82	PPBV		88
52)	METHYL METHACRYLATE	11.28	69	279343	9.82	PPBV	#	69
53)	HEPTANE	11.34	43	571593	8.37	PPBV		84
54)	TVHC as EQUIV HEPTANE	11.34	TIC	2321362m	8.12	PPBV		
55)	METHYL ISOBUTYL KETONE	11.97	43	601299	9.19	PPBV		88
56)	cis-1,3-DICHLOROPROPENE	11.92	75	476082	9.53	PPBV	#	82
57)	TOLUENE	12.87	92	568679	9.99	PPBV		96
58)	trans-1,3-DICHLOROPROPENE	12.42	75	509548	9.41	PPBV		89
59)	1,1,2-TRICHLOROETHANE	12.61	83	255203	9.73	PPBV		97
61)	2-HEXANONE	13.14	43	558854	9.22	PPBV		86
62)	TETRACHLOROETHYLENE	14.01	164	352835	9.87	PPBV		94
63)	DIBROMOCHLOROMETHANE	13.32	129	585975	9.64	PPBV		100
64)	1,2-DIBROMOETHANE	13.56	107	464284	9.86	PPBV		99
65)	OCTANE	13.83	43	800592	8.80	PPBV	#	82
66)	CHLOROBENZENE	14.73	112	712406	9.81	PPBV		90
67)	ETHYLBENZENE	15.11	91	1304609	9.72	PPBV		95
68)	m,p-XYLENE	15.30	106	974652	19.76	PPBV	#	85
69)	o-XYLENE	15.81	106	468966	9.90	PPBV	#	84
70)	STYRENE	15.69	104	710506	10.58	PPBV		92
71)	NONANE	16.01	43	791938	9.03	PPBV		86
72)	BROMOFORM	15.41	173	540838	10.16	PPBV		99
74)	1,1,2,2-TETRACHLOROETHANE	15.81	83	588812	9.95	PPBV		99
75)	ISOPROPYLBENZENE	16.45	105	1346045	9.92	PPBV		95
76)	2-CHLOROTOLUENE	16.99	91	946402	9.80	PPBV		92
77)	4-ETHYLTOLUENE	17.17	105	1303467	10.24	PPBV		96
78)	1,3,5-TRIMETHYLBENZENE	17.26	105	1148980	9.89	PPBV		94
79)	1,2,4-TRIMETHYLBENZENE	17.72	105	1097402	10.17	PPBV		94
80)	m-DICHLOROBENZENE	17.90	146	647774	10.25	PPBV		96
81)	BENZYL CHLORIDE	17.89	91	924675	11.32	PPBV		93
82)	p-DICHLOROBENZENE	17.98	146	603100	10.38	PPBV		97
83)	o-DICHLOROBENZENE	18.36	146	539527	10.45	PPBV		96
84)	HEXACHLOROBUTADIENE	20.79	225	270413	10.76	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.29	180	224538	11.96	PPBV		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

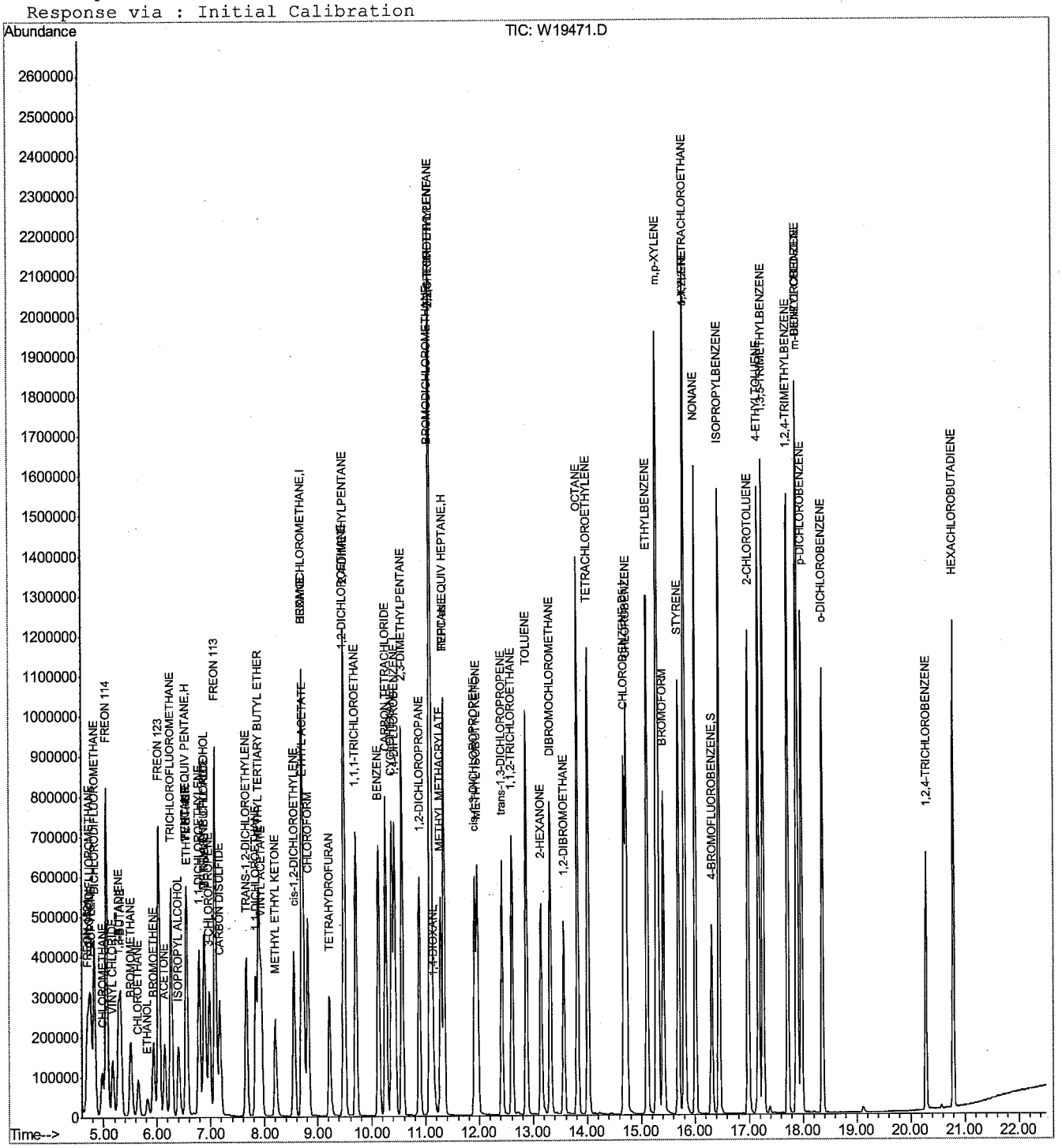
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19471.D
Acq On : 30 Dec 2008 5:51 pm
Sample : ICC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:57 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00

Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



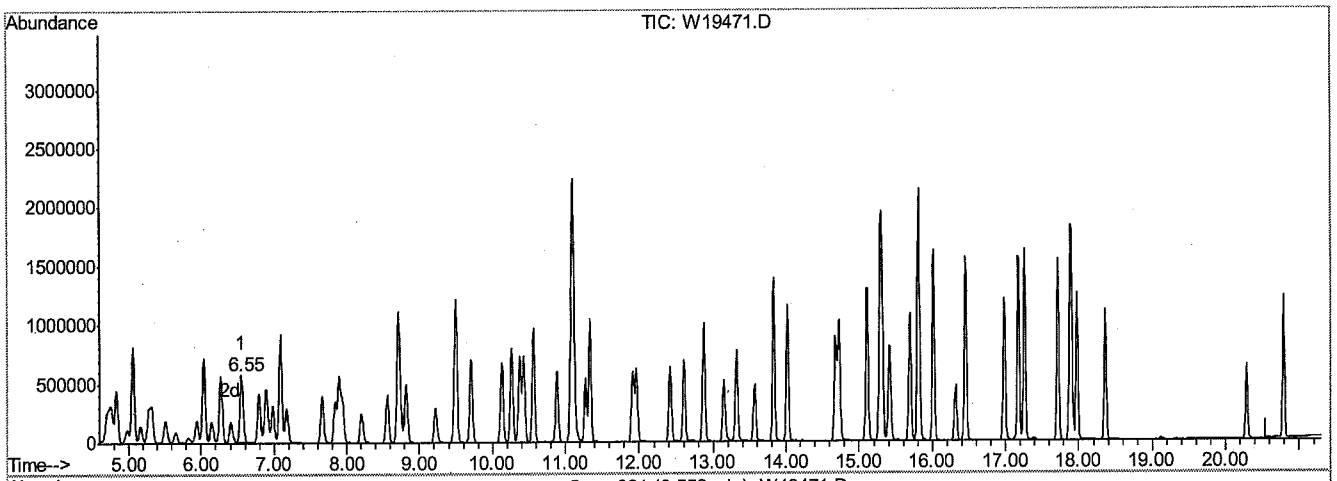
ACCUTEST Laboratories JA8427

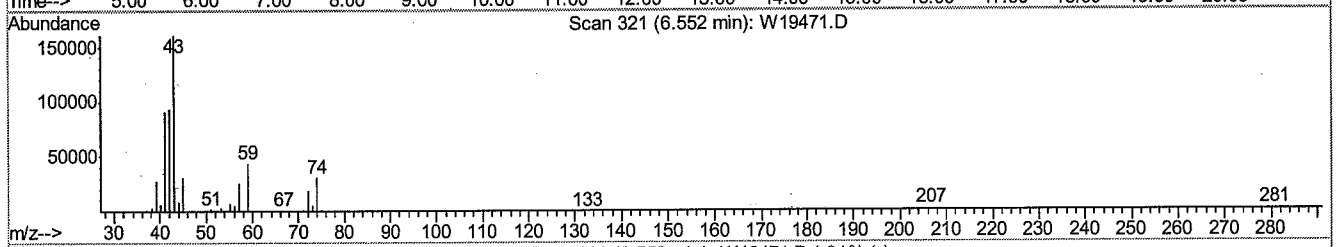
Quantitation Report (Qedit)

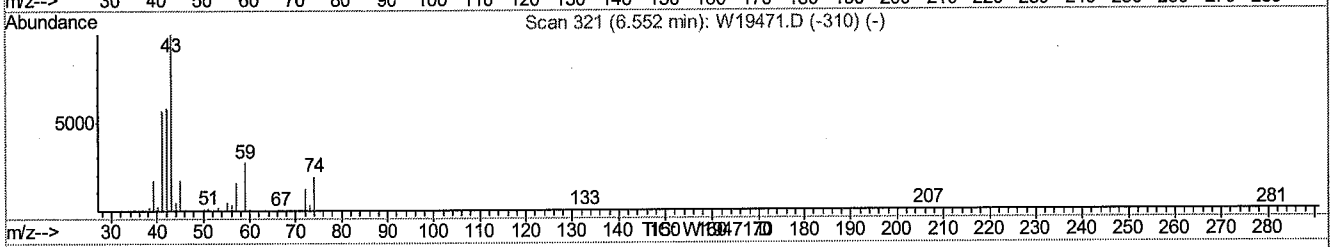
Data File : C:\MSDCHEM\1\DATA\W19471.D
Acq On : 30 Dec 2008 5:51 pm
Sample : ICC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:57 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.55min 8.06PPBV m

response 1767412

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

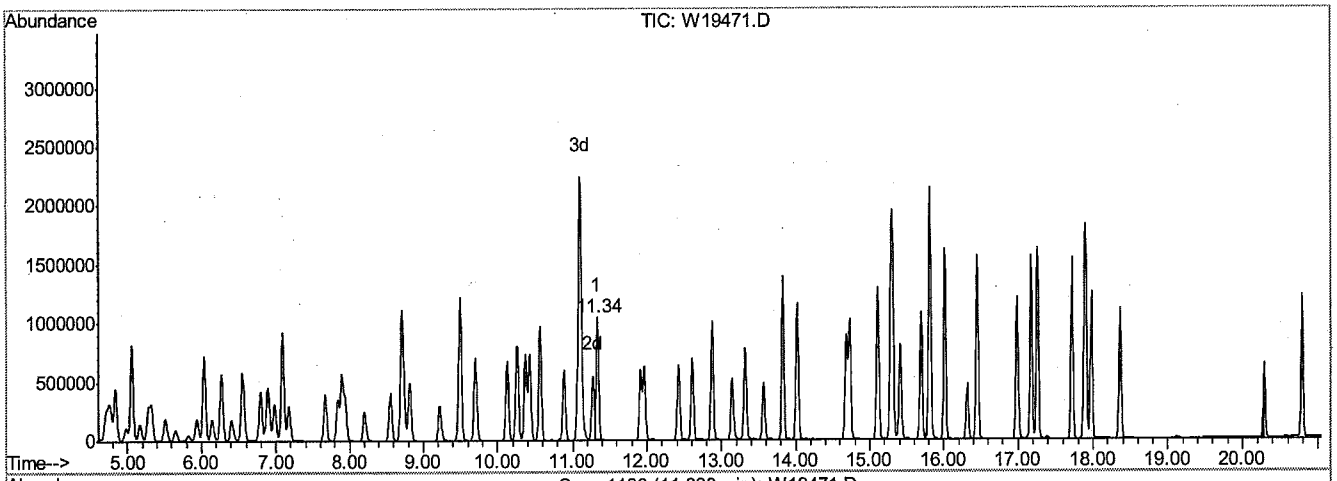
W19471.D MW830.M Wed Dec 31 10:33:42 2008 MSW

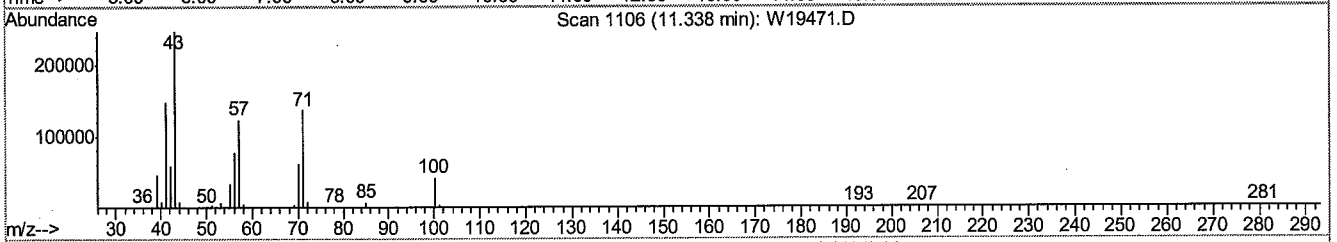
Quantitation Report (Qedit)

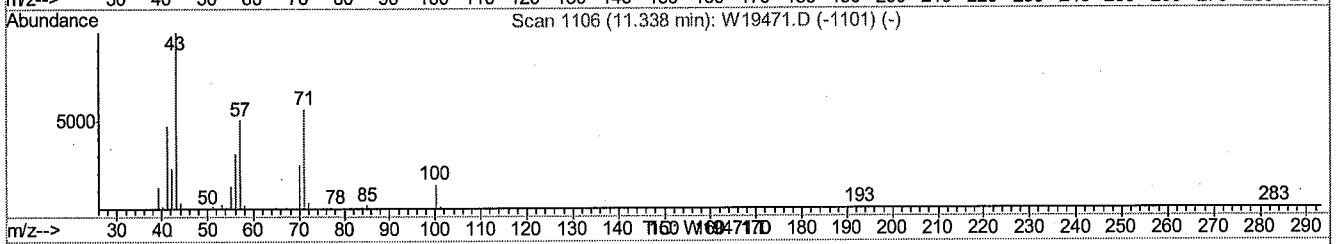
Data File : C:\MSDCHEM\1\DATA\W19471.D
Acq On : 30 Dec 2008 5:51 pm
Sample : ICC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:57 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.34min 8.12PPBV m

response 2321362

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19471.D MW830.M Wed Dec 31 10:33:45 2008 MSW

6.7.12.2 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19472.D
Acq On : 30 Dec 2008 6:31 pm
Sample : IC830-1.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:28 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.71	128	130312	10.00	PPBV	-0.01
43) 1,4-DIFLUOROBENZENE	10.42	114	691959	10.00	PPBV	-0.02
60) CHLOROBENZENE-D5	14.68	117	568871	10.00	PPBV	-0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.31	95	200726	5.39	PPBV	-0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 107.80%			
Target Compounds						Qvalue
3) FREON 152A	4.70	65	14450	0.94	PPBV #	74
4) CHLORODIFLUOROMETHANE	4.74	67	6810	1.23	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.83	85	68355	1.14	PPBV	99
6) PROPYLENE	4.77	41	20422	1.10	PPBV	95
7) FREON 114	5.06	85	64194	0.94	PPBV	99
8) CHLOROMETHANE	4.98	52	6902	0.99	PPBV #	77
9) VINYL CHLORIDE	5.17	62	24056	0.96	PPBV	99
10) 1,3-BUTADIENE	5.28	54	18212	1.03	PPBV #	79
11) n-BUTANE	5.33	43	39904	1.12	PPBV #	92
12) BROMOMETHANE	5.52	94	19722	0.92	PPBV	100
13) CHLOROETHANE	5.66	64	12914	0.95	PPBV	97
14) FREON 123	6.04	85	32575	0.96	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.28	101	72519	1.20	PPBV	99
16) ISOPROPYL ALCOHOL	6.45	45	33205	1.16	PPBV	93
17) ACETONE	6.16	58	11796	1.11	PPBV #	57
18) PENTANE	6.55	42	27826	1.28	PPBV	97
19) TVHC as EQUIV PENTANE	6.55	TIC	177199m	1.35	PPBV	
20) ETHYL ETHER	6.58	74	11881	1.04	PPBV	87
21) 1,1-DICHLOROETHYLENE	6.80	96	22896	0.92	PPBV #	76
22) CARBON DISULFIDE	7.17	76	64117	0.98	PPBV	89
23) ETHANOL	5.85	45	8348	1.03	PPBV	93
24) BROMOETHENE	5.94	106	20027	0.95	PPBV #	98
25) METHYLENE CHLORIDE	6.89	84	21130	0.97	PPBV	83
26) 3-CHLOROPROPENE	6.98	76	10155	1.02	PPBV #	26
27) FREON 113	7.09	151	39385	0.98	PPBV	98
28) TRANS-1,2-DICHLOROETHYLENE	7.67	96	19973	0.87	PPBV #	78
29) TERTIARY BUTYL ALCOHOL	6.95	59	36741	1.26	PPBV #	74
30) METHYL TERTIARY BUTYL ETHE	7.91	73	69355	1.24	PPBV	92
31) TETRAHYDROFURAN	9.23	42	26642	1.47	PPBV	81
32) HEXANE	8.71	57	40378	1.30	PPBV #	84
33) VINYL ACETATE	7.94	86	5137	1.02	PPBV #	1
34) 1,1-DICHLOROETHANE	7.84	63	46968	1.21	PPBV	99
35) METHYL ETHYL KETONE	8.20	72	9686	1.05	PPBV #	57
36) cis-1,2-DICHLOROETHYLENE	8.56	96	22459	0.94	PPBV #	80
37) ETHYL ACETATE	8.74	61	5907	1.26	PPBV #	32
38) CHLOROFORM	8.81	83	51772	1.23	PPBV	96
39) 2,4-DIMETHYLPENTANE	9.50	57	46652	1.29	PPBV	96
40) 1,1,1-TRICHLOROETHANE	9.70	97	58765	1.31	PPBV	96
41) CARBON TETRACHLORIDE	10.26	117	61080	1.27	PPBV	99
42) 1,2-DICHLOROETHANE	9.48	62	38751	1.54	PPBV	96
44) BENZENE	10.12	78	68079	1.00	PPBV	94

(#) = qualifier out of range (m) = manual integration
W19472.D MW830.M Wed Dec 31 10:33:16 2008 MSW

6.7.13 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19472.D
Acq On : 30 Dec 2008 6:31 pm
Sample : IC830-1.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:28 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.37	84	30407	0.97 PPBV #	31
46) 2,3-DIMETHYLPENTANE	10.56	71	16686	1.05 PPBV	74
47) TRICHLOROETHYLENE	11.09	95	29989	1.07 PPBV	87
48) 1,2-DICHLOROPROPANE	10.87	63	25837	1.13 PPBV	93
49) BROMODICHLOROMETHANE	11.07	83	53580	1.22 PPBV	99
50) 2,2,4-TRIMETHYLPENTANE	11.10	57	126591	1.35 PPBV	98
51) 1,4-DIOXANE	11.21	88	10903	1.04 PPBV #	68
52) METHYL METHACRYLATE	11.28	69	22282	1.06 PPBV #	8
53) HEPTANE	11.33	43	51398	1.47 PPBV #	79
54) TVHC as EQUIV HEPTANE	11.33	TIC	214713m	1.28 PPBV	
55) METHYL ISOBUTYL KETONE	11.99	43	49748	1.41 PPBV	84
56) cis-1,3-DICHLOROPROPENE	11.91	75	38796	1.12 PPBV	90
57) TOLUENE	12.87	92	45351	0.96 PPBV	96
58) trans-1,3-DICHLOROPROPENE	12.42	75	41088	1.20 PPBV	85
59) 1,1,2-TRICHLOROETHANE	12.61	83	20534	0.98 PPBV	96
61) 2-HEXANONE	13.17	43	45586	1.51 PPBV	80
62) TETRACHLOROETHYLENE	14.01	164	25975	0.86 PPBV	89
63) DIBROMOCHLOROMETHANE	13.31	129	43755	1.03 PPBV	99
64) 1,2-DIBROMOETHANE	13.56	107	34339	0.96 PPBV	99
65) OCTANE	13.82	43	67866	1.64 PPBV #	78
66) CHLOROBENZENE	14.72	112	55445	0.95 PPBV #	78
67) ETHYLBENZENE	15.11	91	100110	1.08 PPBV	93
68) m,p-XYLENE	15.29	106	69758	1.93 PPBV #	77
69) o-XYLENE	15.80	106	33139	0.95 PPBV #	75
70) STYRENE	15.68	104	49087	0.92 PPBV	90
71) NONANE	16.01	43	63863	1.66 PPBV	82
72) BROMOFORM	15.40	173	35855	0.92 PPBV	98
74) 1,1,2,2-TETRACHLOROETHANE	15.81	83	40131	1.03 PPBV	98
75) ISOPROPYLBENZENE	16.45	105	97144	1.01 PPBV	92
76) 2-CHLOROTOLUENE	16.98	91	68206	1.05 PPBV	90
77) 4-ETHYLTOLUENE	17.17	105	91123	1.01 PPBV	94
78) 1,3,5-TRIMETHYLBENZENE	17.26	105	81827	1.03 PPBV	89
79) 1,2,4-TRIMETHYLBENZENE	17.71	105	75528	1.02 PPBV	91
80) m-DICHLOROBENZENE	17.90	146	39746	0.82 PPBV	94
81) BENZYL CHLORIDE	17.88	91	54031	1.02 PPBV	90
82) p-DICHLOROBENZENE	17.97	146	38377	0.82 PPBV	96
83) o-DICHLOROBENZENE	18.36	146	34378	0.81 PPBV	95
84) HEXACHLOROBUTADIENE	20.79	225	15614	0.93 PPBV	97
85) 1,2,4-TRICHLOROBENZENE	20.29	180	9895	0.70 PPBV	96

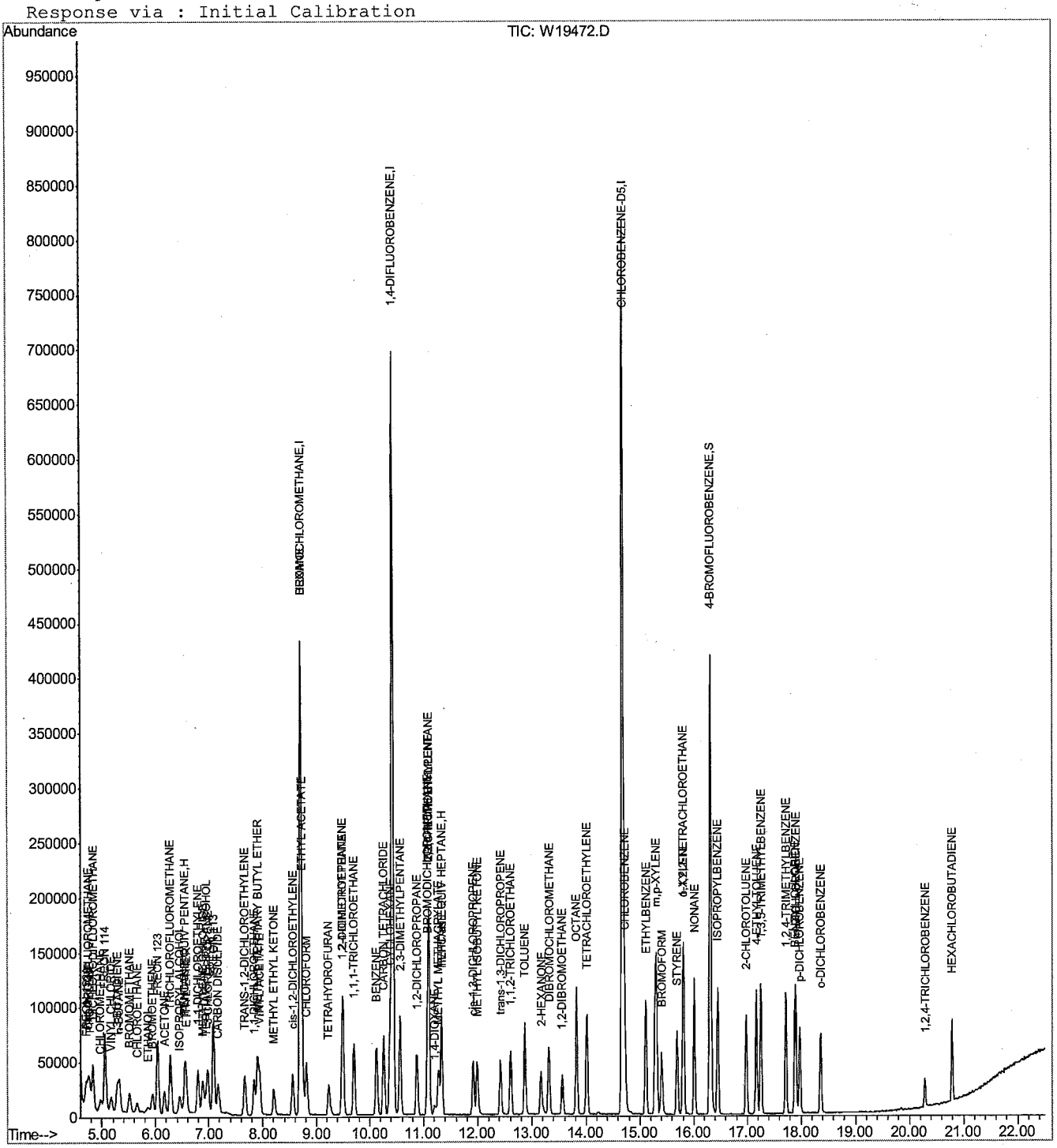
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19472.D MW830.M Wed Dec 31 10:33:17 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19472.D
Acq On : 30 Dec 2008 6:31 pm
Sample : IC830-1.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:38 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



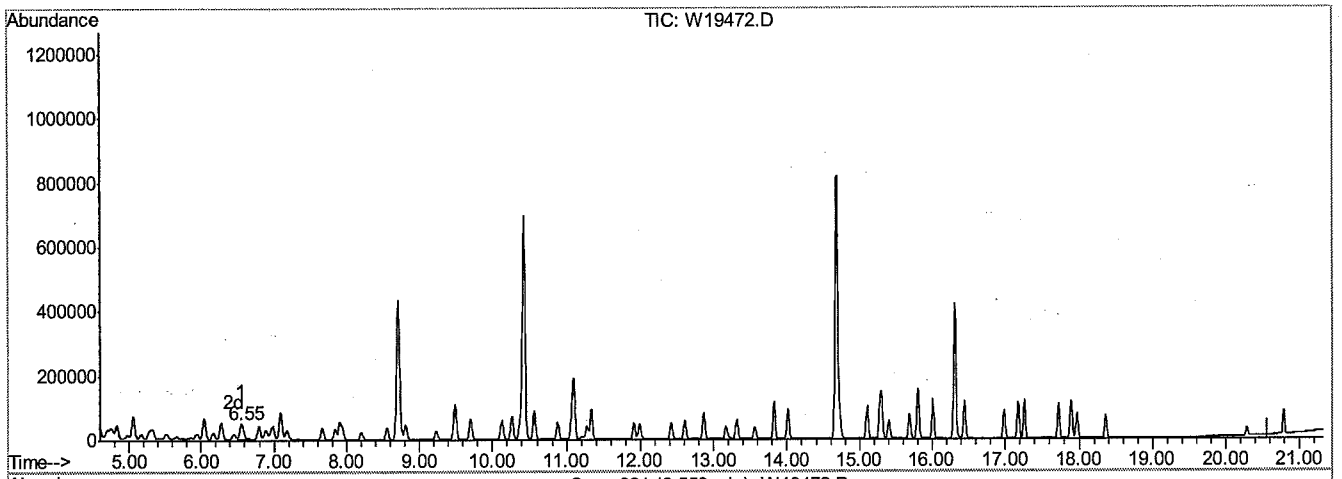
ACCUTEST Laboratories JA8427

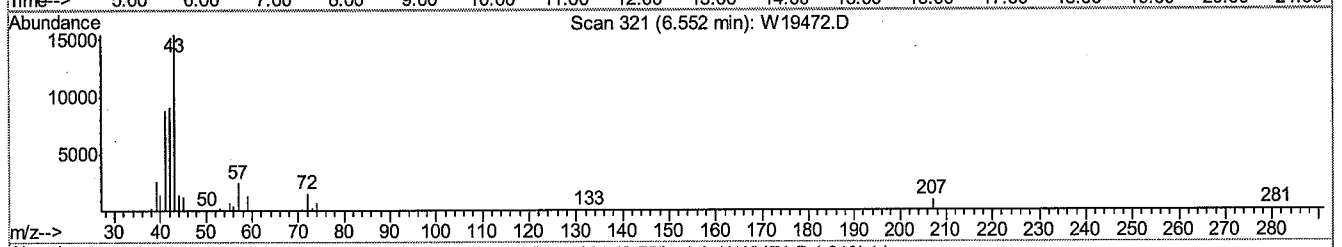
Quantitation Report (Qedit)

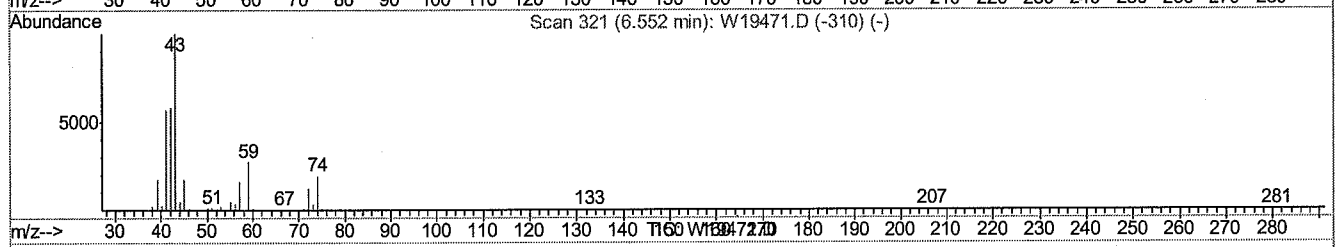
Data File : C:\MSDCHEM\1\DATA\W19472.D
Acq On : 30 Dec 2008 6:31 pm
Sample : IC830-1.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:38 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.55min 1.35PPBV m

response 177199

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

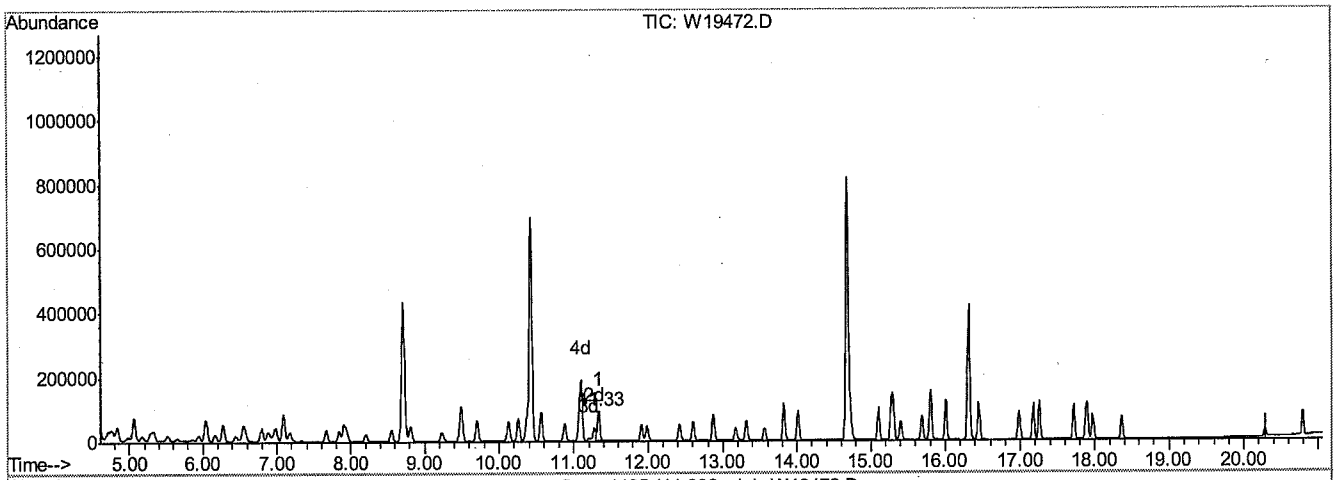
W19472.D MW830.M Wed Dec 31 10:33:53 2008 MSW

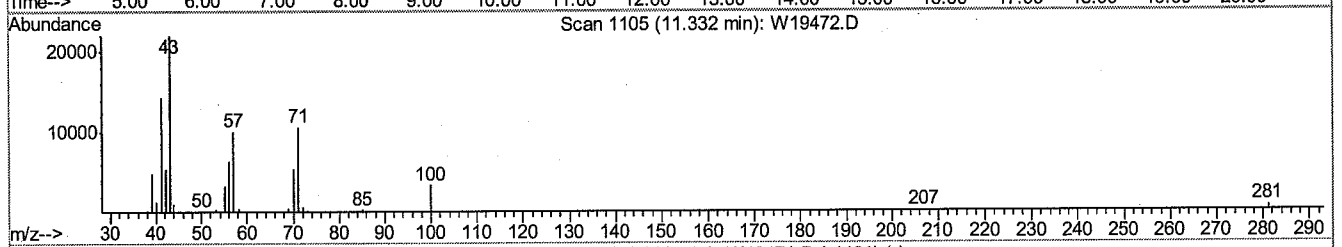
Quantitation Report (Qedit)

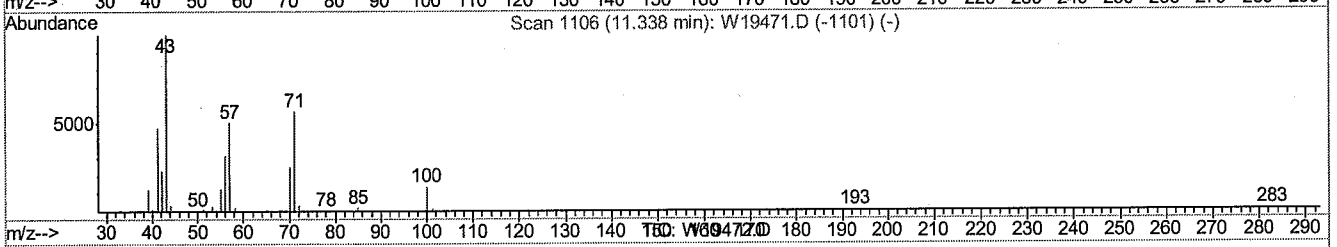
Data File : C:\MSDCHEM\1\DATA\W19472.D
Acq On : 30 Dec 2008 6:31 pm
Sample : IC830-1.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:38 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.33min 1.28PPBV m

response 214713

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19472.D MW830.M Wed Dec 31 10:33:56 2008 MSW

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/31/08 14:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19474.D Vial: 1
Acq On : 30 Dec 2008 7:52 pm Operator: BENR
Sample : IC830-0.2 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:34 2008 Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.70	128	112090	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.42	114	581524	10.00	PPBV	-0.02
60) CHLOROBENZENE-D5	14.67	117	463015	10.00	PPBV	-0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.31	95	165007	5.45	PPBV	-0.02
Spiked Amount 5.000	Range 78 - 124		Recovery = 109.00%			
Target Compounds						Qvalue
3) FREON 152A	4.69	65	3128	0.24	PPBV #	38
4) CHLORODIFLUOROMETHANE	4.74	67	1748	0.37	PPBV #	79
5) DICHLORODIFLUOROMETHANE	4.83	85	16137	0.31	PPBV	97
6) PROPYLENE	4.76	41	5338	0.34	PPBV	83
7) FREON 114	5.05	85	14656	0.25	PPBV	99
8) CHLOROMETHANE	4.98	52	1582	0.26	PPBV #	86
9) VINYL CHLORIDE	5.16	62	5501	0.26	PPBV	92
10) 1,3-BUTADIENE	5.27	54	4212	0.28	PPBV #	55
11) n-BUTANE	5.32	43	9975	0.32	PPBV #	91
12) BROMOMETHANE	5.51	94	4501	0.24	PPBV	85
13) CHLOROETHANE	5.64	64	2970	0.25	PPBV	89
14) FREON 123	6.03	85	7277	0.25	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.27	101	18329	0.35	PPBV	99
16) ISOPROPYL ALCOHOL	6.46	45	7855	0.32	PPBV	77
17) ACETONE	6.16	58	2844	0.31	PPBV #	41
18) PENTANE	6.55	42	7600	0.41	PPBV	92
19) TVHC as EQUIV PENTANE	6.27	TIC	37127m	0.33	PPBV	
20) ETHYL ETHER	6.58	74	2607	0.27	PPBV	81
21) 1,1-DICHLOROETHYLENE	6.80	96	5632	0.26	PPBV #	77
22) CARBON DISULFIDE	7.17	76	15467	0.27	PPBV #	54
23) ETHANOL	5.84	45	2173	0.31	PPBV #	68
24) BROMOETHENE	5.94	106	4472	0.25	PPBV	100
25) METHYLENE CHLORIDE	6.89	84	5686	0.30	PPBV	78
26) 3-CHLOROPROPENE	6.98	76	2213	0.26	PPBV #	1
27) FREON 113	7.08	151	8980	0.26	PPBV	94
28) TRANS-1,2-DICHLOROETHYLENE	7.66	96	4736	0.24	PPBV #	78
29) TERTIARY BUTYL ALCOHOL	6.97	59	8665m	0.34	PPBV	
30) METHYL TERTIARY BUTYL ETHE	7.90	73	14884	0.31	PPBV	88
31) TETRAHYDROFURAN	9.31	42	5835	0.37	PPBV	72
32) HEXANE	8.71	57	9008	0.34	PPBV #	77
33) VINYL ACETATE	7.95	86	783	0.18	PPBV #	1
34) 1,1-DICHLOROETHANE	7.84	63	10733	0.32	PPBV	96
35) METHYL ETHYL KETONE	8.21	72	1633	0.21	PPBV #	43
36) cis-1,2-DICHLOROETHYLENE	8.55	96	4812	0.24	PPBV #	75
37) ETHYL ACETATE	8.75	61	1021	0.25	PPBV #	1
38) CHLOROFORM	8.81	83	11663	0.32	PPBV	94
39) 2,4-DIMETHYLPENTANE	9.49	57	10023	0.32	PPBV #	92
40) 1,1,1-TRICHLOROETHANE	9.70	97	12979	0.34	PPBV	95
41) CARBON TETRACHLORIDE	10.25	117	14111	0.34	PPBV	98
42) 1,2-DICHLOROETHANE	9.47	62	8779	0.41	PPBV	94
44) BENZENE	10.12	78	13985	0.24	PPBV	95

(#) = qualifier out of range (m) = manual integration
W19474.D MW830.M Wed Dec 31 10:33:18 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:34 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	CYCLOHEXANE	10.37	84	7203	0.27 PPBV	#	6
46)	2,3-DIMETHYLPENTANE	10.56	71	3475	0.26 PPBV	#	71
47)	TRICHLOROETHYLENE	11.09	95	6114	0.26 PPBV	#	84
48)	1,2-DICHLOROPROPANE	10.87	63	5630	0.29 PPBV		90
49)	BROMODICHLOROMETHANE	11.05	83	11599	0.31 PPBV		98
50)	2,2,4-TRIMETHYLPENTANE	11.09	57	25336	0.32 PPBV		98
51)	1,4-DIOXANE	11.25	88	1468	0.17 PPBV	#	43
52)	METHYL METHACRYLATE	11.28	69	3959	0.22 PPBV	#	8
53)	HEPTANE	11.33	43	11371	0.39 PPBV	#	73
54)	TVHC as EQUIV HEPTANE	11.33	TIC	48037m	0.34 PPBV		
55)	METHYL ISOBUTYL KETONE	12.00	43	9576	0.32 PPBV		78
56)	cis-1,3-DICHLOROPROPENE	11.90	75	7749	0.27 PPBV		83
57)	TOLUENE	12.87	92	8267	0.21 PPBV		92
58)	trans-1,3-DICHLOROPROPENE	12.41	75	7929	0.28 PPBV	#	77
59)	1,1,2-TRICHLOROETHANE	12.59	83	3909	0.22 PPBV		98
61)	2-HEXANONE	13.18	43	8230	0.34 PPBV		74
62)	TETRACHLOROETHYLENE	14.01	164	4912	0.20 PPBV		84
63)	DIBROMOCHLOROMETHANE	13.30	129	8370	0.24 PPBV		97
64)	1,2-DIBROMOETHANE	13.56	107	6608	0.23 PPBV	#	99
65)	OCTANE	13.82	43	13813	0.41 PPBV	#	73
66)	CHLOROBENZENE	14.72	112	10577	0.22 PPBV	#	30
67)	ETHYLBENZENE	15.11	91	18421	0.24 PPBV		91
68)	m,p-XYLENE	15.29	106	12425	0.42 PPBV	#	85
69)	o-XYLENE	15.80	106	5972	0.21 PPBV	#	69
70)	STYRENE	15.69	104	7832	0.18 PPBV		88
71)	NONANE	16.01	43	12539	0.40 PPBV		77
72)	BROMOFORM	15.40	173	6447	0.20 PPBV		96
74)	1,1,2,2-TETRACHLOROETHANE	15.80	83	7528	0.24 PPBV		98
75)	ISOPROPYLBENZENE	16.45	105	17792	0.23 PPBV		89
76)	2-CHLOROTOLUENE	16.98	91	12891	0.24 PPBV		87
77)	4-ETHYLTOLUENE	17.17	105	15172	0.21 PPBV		92
78)	1,3,5-TRIMETHYLBENZENE	17.26	105	14375	0.22 PPBV		89
79)	1,2,4-TRIMETHYLBENZENE	17.71	105	12681	0.21 PPBV		87
80)	m-DICHLOROBENZENE	17.90	146	7428	0.19 PPBV		92
81)	BENZYL CHLORIDE	17.88	91	9318	0.22 PPBV		88
82)	p-DICHLOROBENZENE	17.97	146	7099	0.19 PPBV		96
83)	o-DICHLOROBENZENE	18.36	146	6223	0.18 PPBV		91
84)	HEXACHLOROBUTADIENE	20.79	225	3087	0.23 PPBV		93
85)	1,2,4-TRICHLOROBENZENE	20.29	180	1637	0.14 PPBV		97

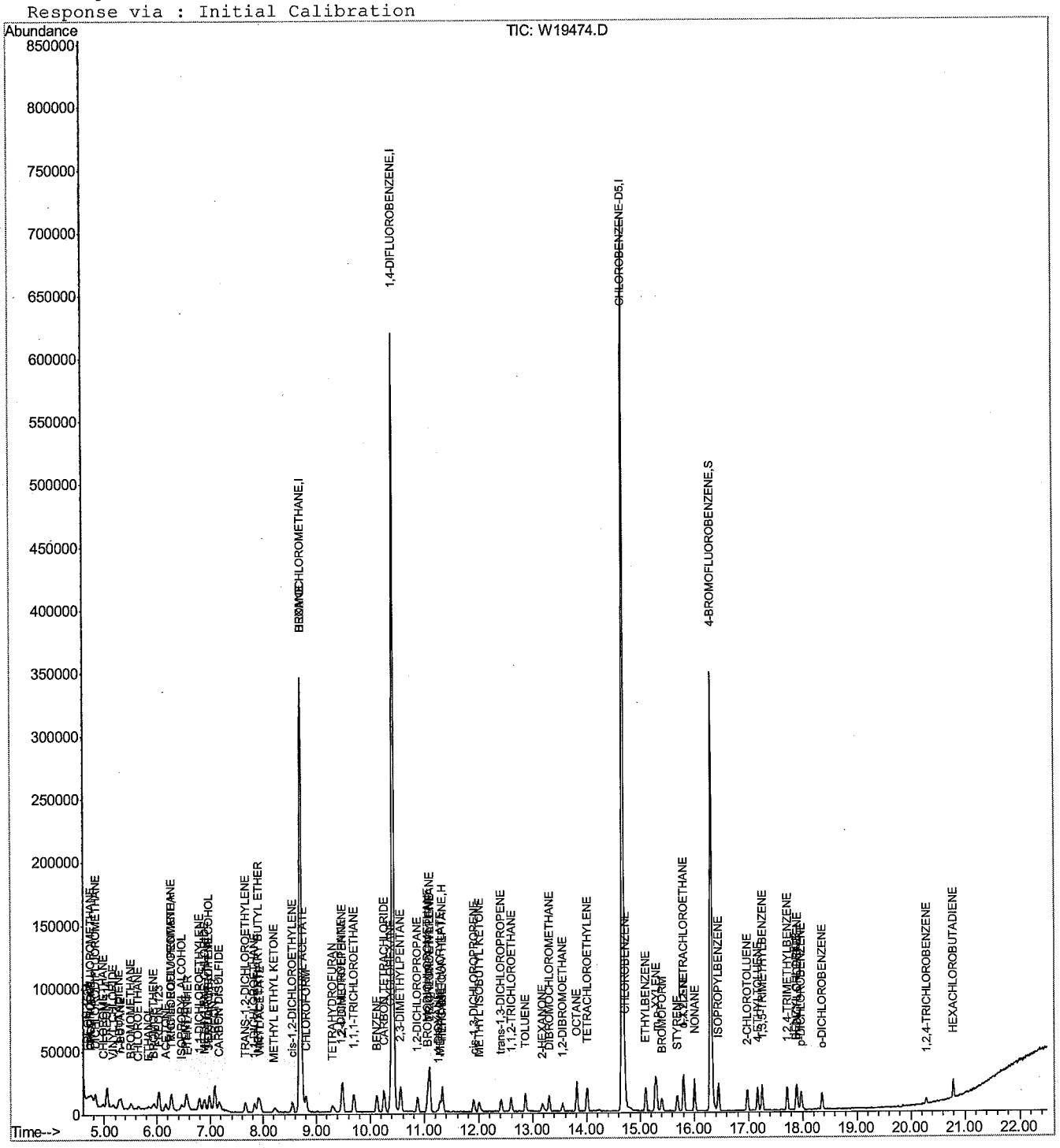
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19474.D MW830.M Wed Dec 31 10:33:18 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:41 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



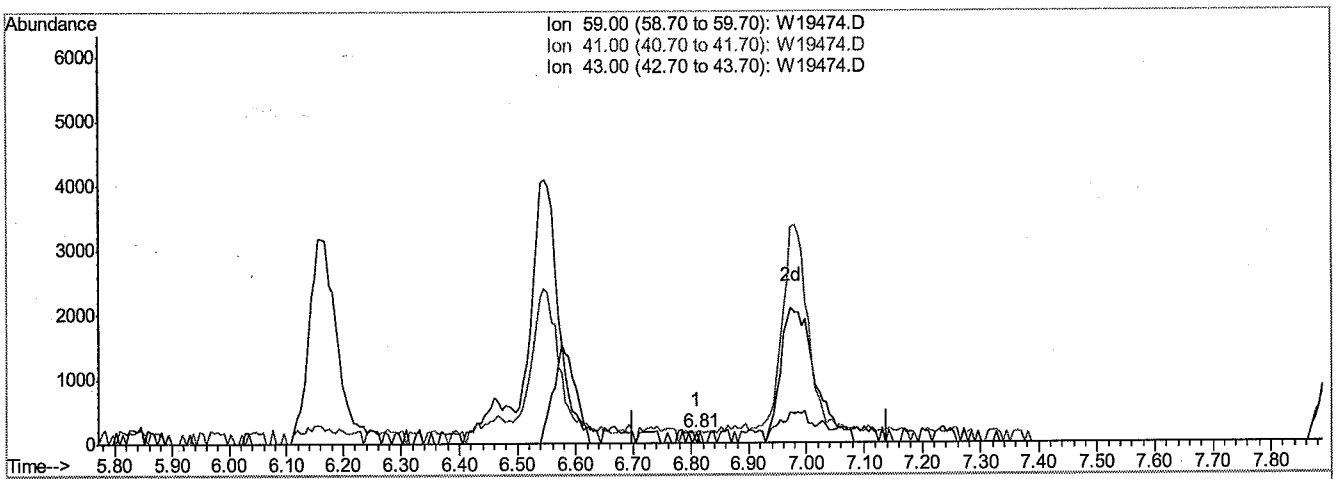
ACCUTEST Laboratories JA8427

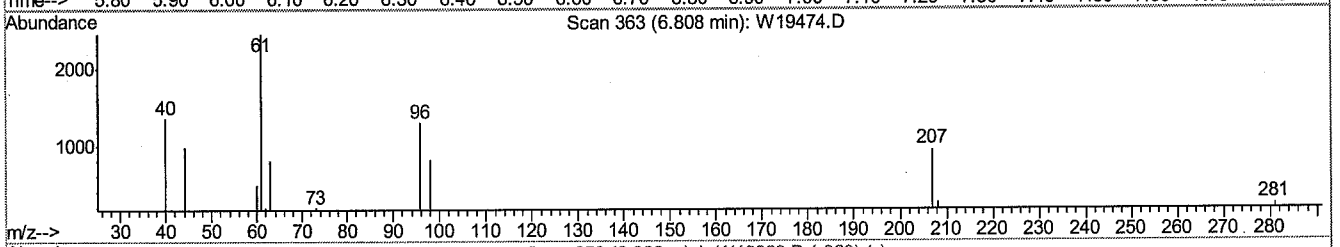
Quantitation Report (Qedit)

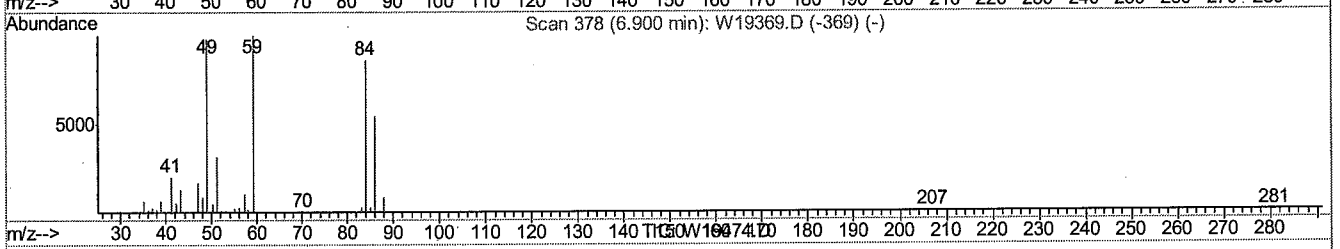
Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:40 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration







(29) TERTIARY BUTYL ALCOHOL

6.81min 0.01PPBV

response 227

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	0.00
43.00	13.00	87.22#
0.00	0.00	0.00

W19474.D MW830.M Wed Dec 31 08:40:48 2008 MSW

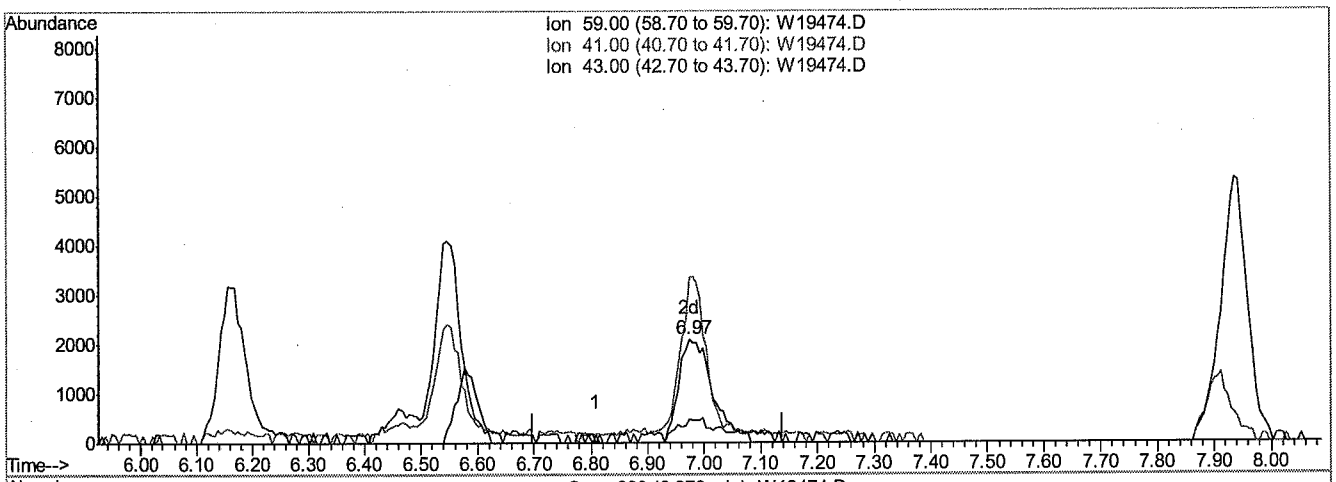
ACCUTEST Laboratories JA8427

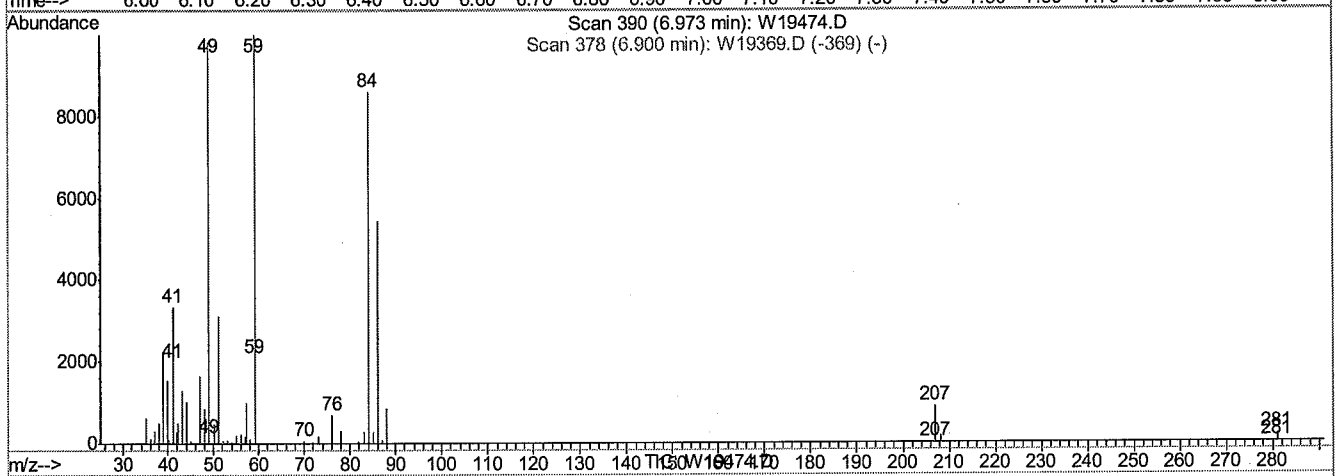
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:40 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(29) TERTIARY BUTYL ALCOHOL

6.97min 0.34PPBV m

response 8665

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	0.00
43.00	13.00	2.29
0.00	0.00	0.00

W19474.D MW830.M Wed Dec 31 08:40:55 2008 MSW

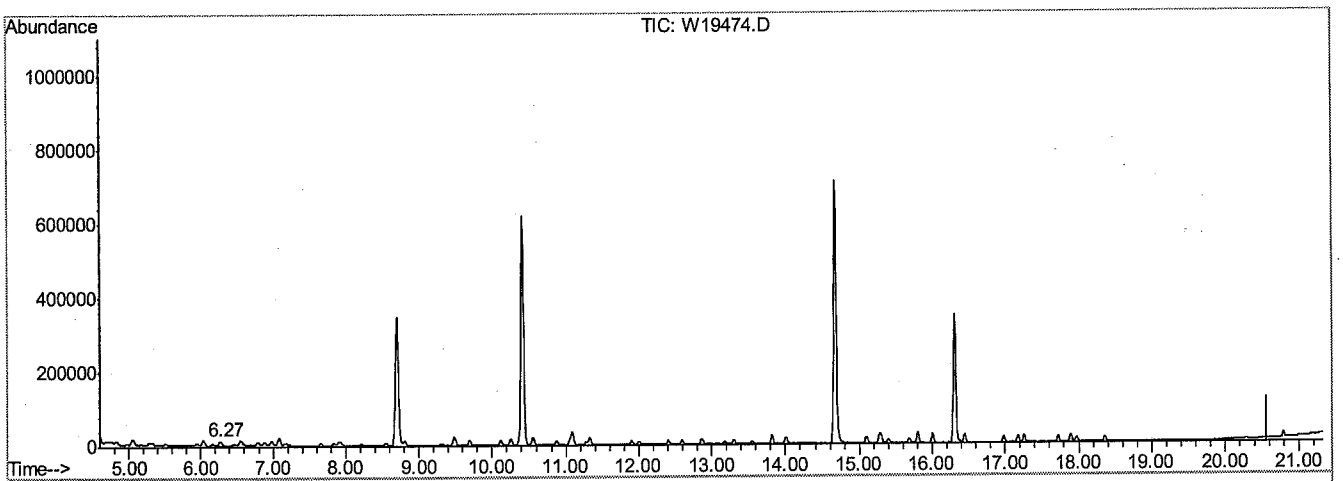
ACCUTEST Laboratories JA8427

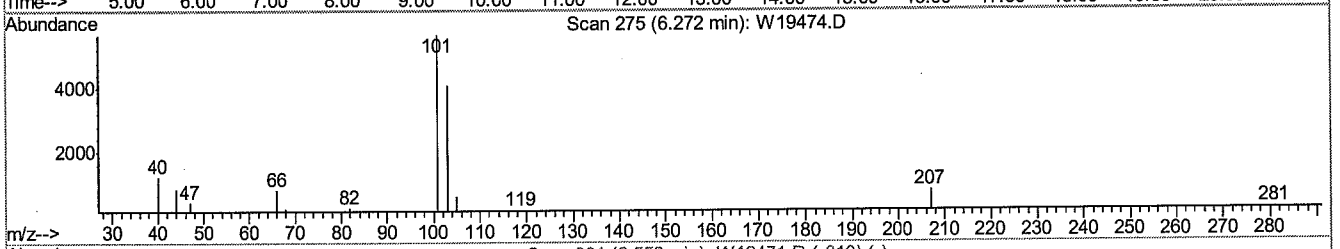
Quantitation Report (Qedit)

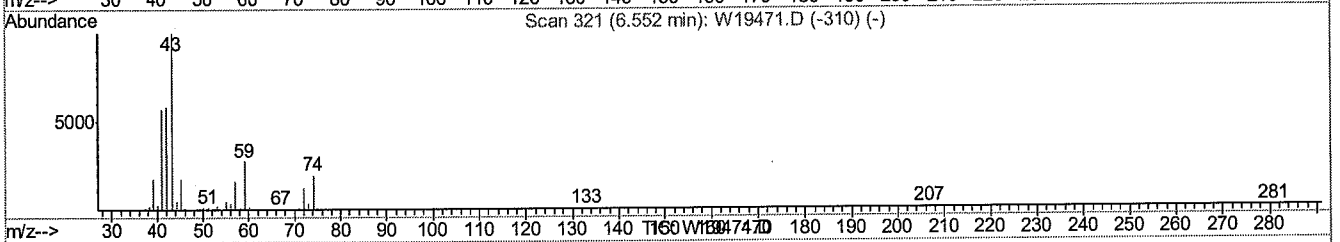
Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:41 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.27min 0.33PPBV m

response 37127

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

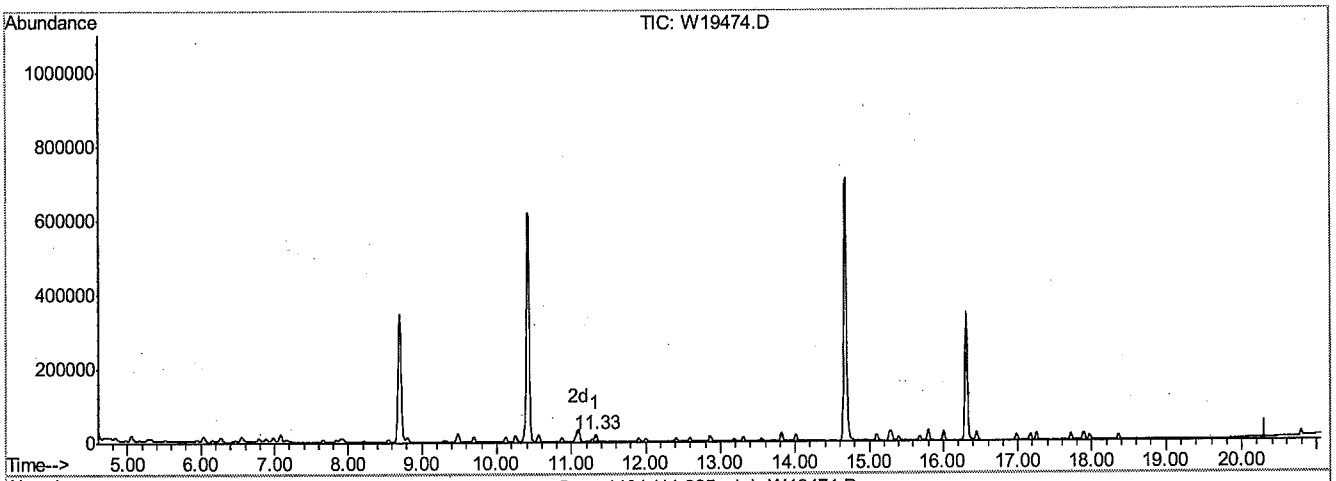
W19474.D MW830.M Wed Dec 31 10:34:28 2008 MSW

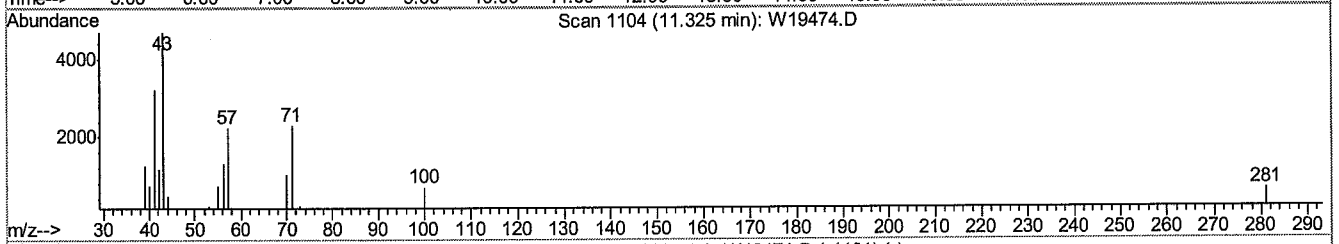
Quantitation Report (Qedit)

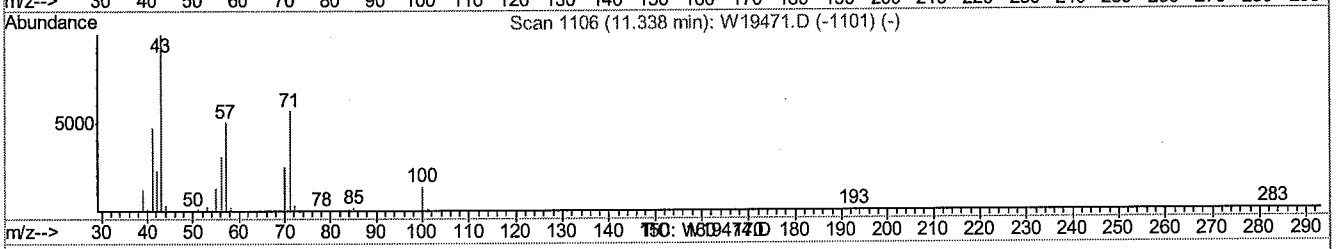
Data File : C:\MSDCHEM\1\DATA\W19474.D
Acq On : 30 Dec 2008 7:52 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:41 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.33min 0.34PPBV m

response 48037

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19474.D MW830.M Wed Dec 31 10:34:31 2008 MSW

Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/31/08 14:10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:00:56 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:00:53 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.15 6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	114083	10.00	PPBV	0.02
43) 1,4-DIFLUOROBENZENE	10.47	114	552454	10.00	PPBV	0.04
60) CHLOROBENZENE-D5	14.70	117	492162	10.00	PPBV	0.01
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.33	95	186156	5.17	PPBV	0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 103.40%			
Target Compounds						Qvalue
3) FREON 152A	4.74	65	250650	18.87	PPBV #	78
4) CHLORODIFLUOROMETHANE	4.77	67	137862	19.84	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.86	85	1268409	19.16	PPBV	99
6) PROPYLENE	4.80	41	370687	18.73	PPBV	93
7) FREON 114	5.09	85	1216869	19.30	PPBV	96
8) CHLOROMETHANE	5.01	52	121983	18.86	PPBV	91
9) VINYL CHLORIDE	5.20	62	446643	19.20	PPBV	99
10) 1,3-BUTADIENE	5.31	54	376569	20.66	PPBV #	81
11) n-BUTANE	5.35	43	815313	20.07	PPBV	95
12) BROMOMETHANE	5.55	94	333125	18.12	PPBV	99
13) CHLOROETHANE	5.68	64	236177	18.90	PPBV	95
14) FREON 123	6.07	85	623142	19.51	PPBV #	98
15) TRICHLOROFLUOROMETHANE	6.30	101	1423872	19.49	PPBV	100
16) ISOPROPYL ALCOHOL	6.53	45	681300m	18.34	PPBV	
17) ACETONE	6.19	58	190202	18.05	PPBV #	41
18) PENTANE	6.58	42	583264	20.07	PPBV	89
19) TVHC as EQUIV PENTANE	6.58	TIC	3324855m	19.15	PPBV	
20) ETHYL ETHER	6.60	74	222926	19.55	PPBV	81
21) 1,1-DICHLOROETHYLENE	6.82	96	390737	17.79	PPBV #	54
22) CARBON DISULFIDE	7.20	76	1153157	18.51	PPBV	90
23) ETHANOL	5.95	45	152916	19.08	PPBV	98
24) BROMOETHENE	5.97	106	347031	18.32	PPBV #	97
25) METHYLENE CHLORIDE	6.91	84	345483	17.27	PPBV	73
26) 3-CHLOROPROPENE	7.02	76	192653	19.82	PPBV #	1
27) FREON 113	7.12	151	733561	18.94	PPBV	94
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	354595	17.96	PPBV #	68
29) TERTIARY BUTYL ALCOHOL	7.02	59	730402	20.80	PPBV #	1
30) METHYL TERTIARY BUTYL ETHE	7.94	73	1343187	19.87	PPBV	91
31) TETRAHYDROFURAN	9.26	42	542430	20.68	PPBV	77
32) HEXANE	8.74	57	783123	19.74	PPBV #	81
33) VINYL ACETATE	7.99	86	96395	20.27	PPBV #	1
34) 1,1-DICHLOROETHANE	7.87	63	895787	19.44	PPBV	99
35) METHYL ETHYL KETONE	8.27	72	175003	20.05	PPBV #	23
36) cis-1,2-DICHLOROETHYLENE	8.59	96	391301	18.57	PPBV #	67
37) ETHYL ACETATE	8.80	61	104822	19.96	PPBV #	1
38) CHLOROFORM	8.86	83	997898	19.60	PPBV	95
39) 2,4-DIMETHYLPENTANE	9.53	57	946414	20.32	PPBV	95
40) 1,1,1-TRICHLOROETHANE	9.74	97	1171287	20.05	PPBV	95
41) CARBON TETRACHLORIDE	10.29	117	1236651	20.01	PPBV	99
42) 1,2-DICHLOROETHANE	9.52	62	829795	20.99	PPBV	97
44) BENZENE	10.16	78	1252006	19.96	PPBV	93

(#) = qualifier out of range (m) = manual integration
W19475.D MW830.M Wed Dec 31 10:33:19 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:00:56 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:00:53 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.15 6

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.40	84	546228	19.20 PPBV #	78
46) 2,3-DIMETHYLPENTANE	10.59	71	317598	20.24 PPBV #	71
47) TRICHLOROETHYLENE	11.13	95	675843	22.52 PPBV	90
48) 1,2-DICHLOROPROPANE	10.92	63	482377	20.08 PPBV	90
49) BROMODICHLOROMETHANE	11.12	83	1223927	22.51 PPBV	100
50) 2,2,4-TRIMETHYLPENTANE	11.14	57	2668002	22.56 PPBV	98
51) 1,4-DIOXANE	11.20	88	164168	19.65 PPBV #	67
52) METHYL METHACRYLATE	11.32	69	457713	21.72 PPBV #	8
53) HEPTANE	11.37	43	1060861	20.98 PPBV #	77
54) TVHC as EQUIV HEPTANE	11.37	TIC	4448117m	21.01 PPBV	
55) METHYL ISOBUTYL KETONE	12.01	43	1088358	22.45 PPBV	83
56) cis-1,3-DICHLOROPROPENE	11.95	75	784088	21.20 PPBV #	69
57) TOLUENE	12.90	92	877884	20.82 PPBV	95
58) trans-1,3-DICHLOROPROPENE	12.46	75	876606	21.85 PPBV	82
59) 1,1,2-TRICHLOROETHANE	12.64	83	403688	20.78 PPBV	96
61) 2-HEXANONE	13.17	43	1009779	21.98 PPBV	80
62) TETRACHLOROETHYLENE	14.04	164	553570	20.42 PPBV	90
63) DIBROMOCHLOROMETHANE	13.35	129	977892	21.22 PPBV	100
64) 1,2-DIBROMOETHANE	13.60	107	741140	20.75 PPBV	99
65) OCTANE	13.84	43	1436508	20.82 PPBV #	78
66) CHLOROBENZENE	14.75	112	1104059	20.04 PPBV	86
67) ETHYLBENZENE	15.13	91	2134889	20.97 PPBV	93
68) m,p-XYLENE	15.32	106	1631867	43.64 PPBV #	82
69) o-XYLENE	15.83	106	801135	22.31 PPBV #	79
70) STYRENE	15.71	104	1126242	22.11 PPBV	88
71) NONANE	16.03	43	1432763	21.54 PPBV	84
72) BROMOFORM	15.43	173	907827	22.49 PPBV	99
74) 1,1,2,2-TETRACHLOROETHANE	15.83	83	1018296	22.69 PPBV	99
75) ISOPROPYLBENZENE	16.46	105	2217767	21.56 PPBV	93
76) 2-CHLOROTOLUENE	17.00	91	1588636	21.70 PPBV	89
77) 4-ETHYLTOLUENE	17.18	105	2171776	22.49 PPBV	95
78) 1,3,5-TRIMETHYLBENZENE	17.27	105	1960045	22.24 PPBV	91
79) 1,2,4-TRIMETHYLBENZENE	17.73	105	1856627	22.69 PPBV	92
80) m-DICHLOROBENZENE	17.91	146	1104472	23.05 PPBV	95
81) BENZYL CHLORIDE	17.89	91	1676494	27.07 PPBV	92
82) p-DICHLOROBENZENE	17.99	146	1000370	22.70 PPBV	95
83) o-DICHLOROBENZENE	18.37	146	880548	22.48 PPBV	95
84) HEXACHLOROBUTADIENE	20.79	225	443380	23.27 PPBV	100
85) 1,2,4-TRICHLOROBENZENE	20.29	180	374349	26.29 PPBV	97

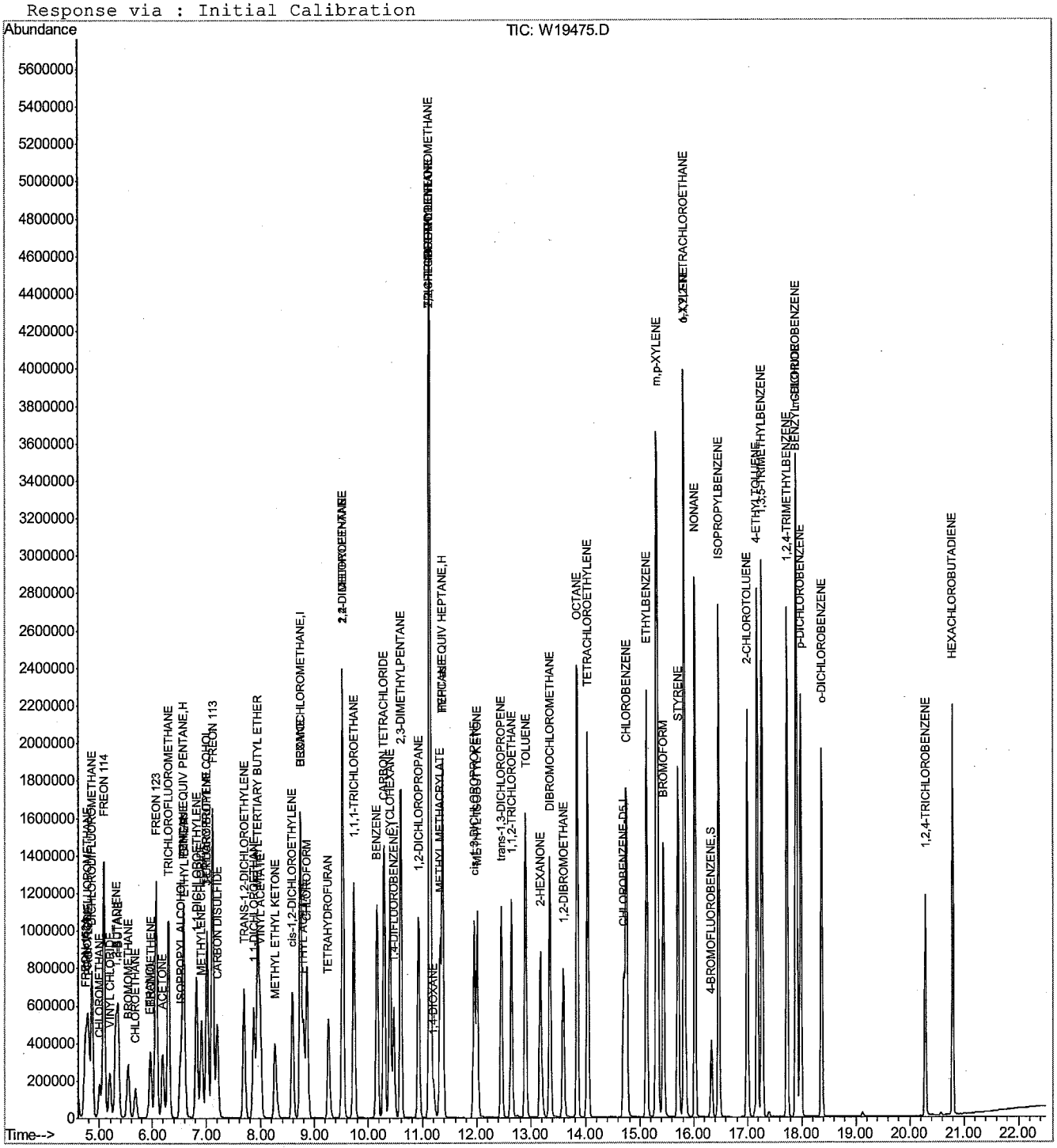
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19475.D MW830.M Wed Dec 31 10:33:20 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:02 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



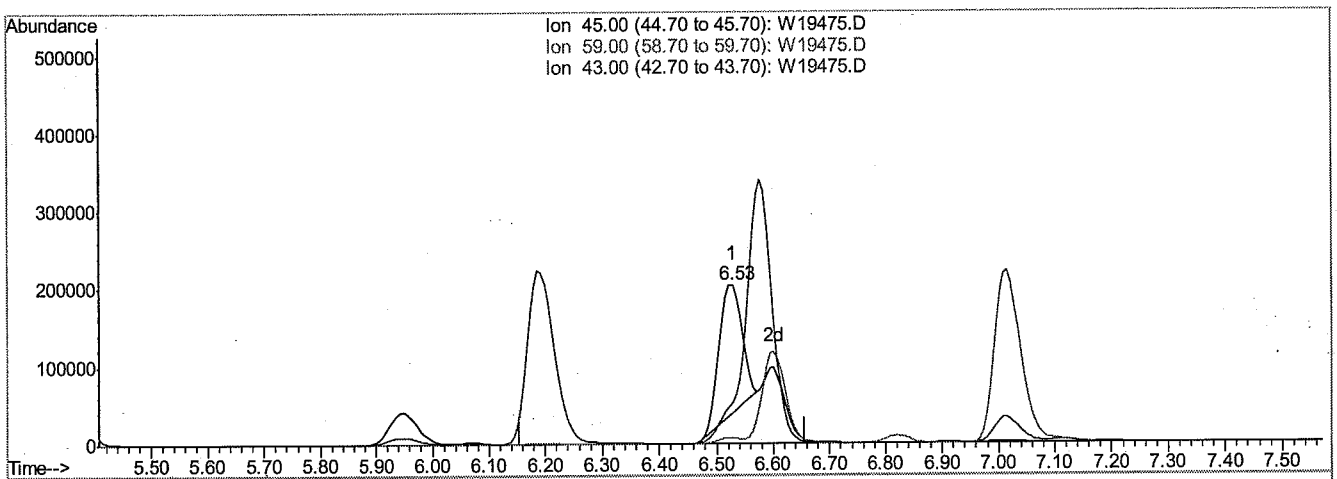
6.715
6

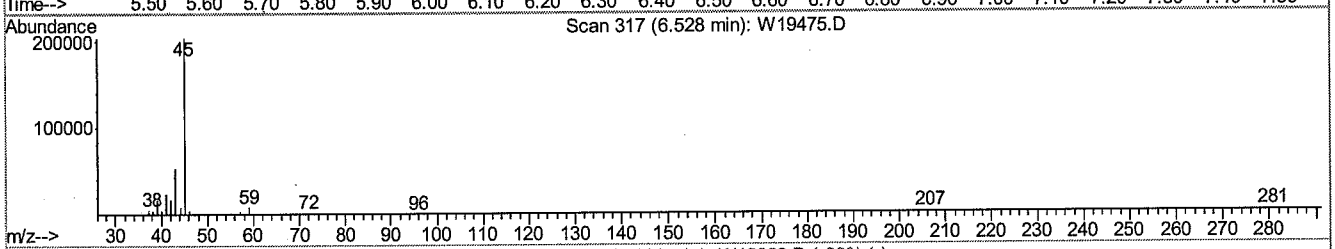
Quantitation Report (Qedit)

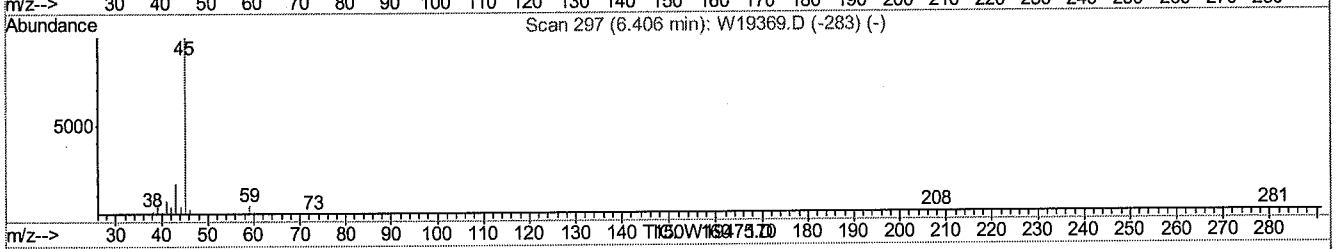
Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:41 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration







(16) ISOPROPYL ALCOHOL

6.53min 18.80PPBV

response 472782

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	3.69
43.00	18.00	25.96
0.00	0.00	0.00

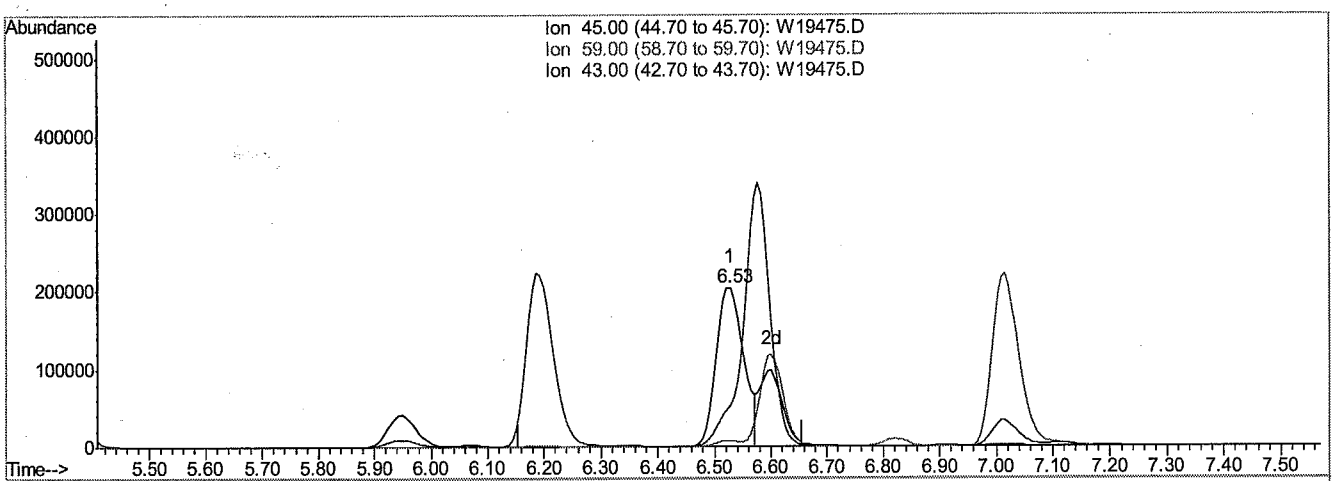
W19475.D MW830.M Wed Dec 31 08:41:44 2008 MSW

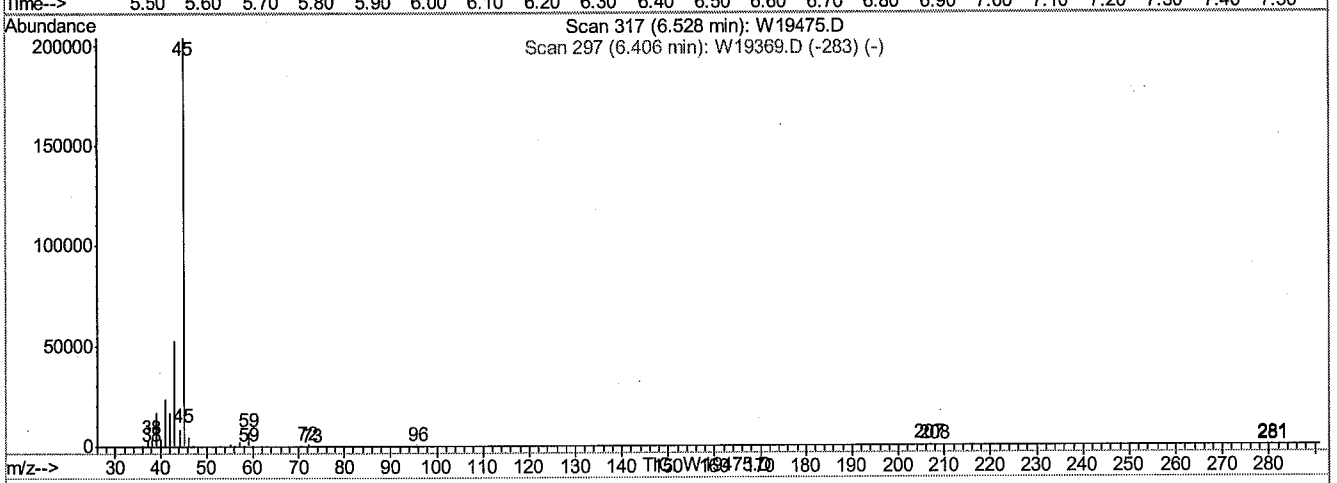
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:41 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(16) ISOPROPYL ALCOHOL

6.53min 27.09PPBV m

response 681110

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	3.69
43.00	18.00	25.96
0.00	0.00	0.00

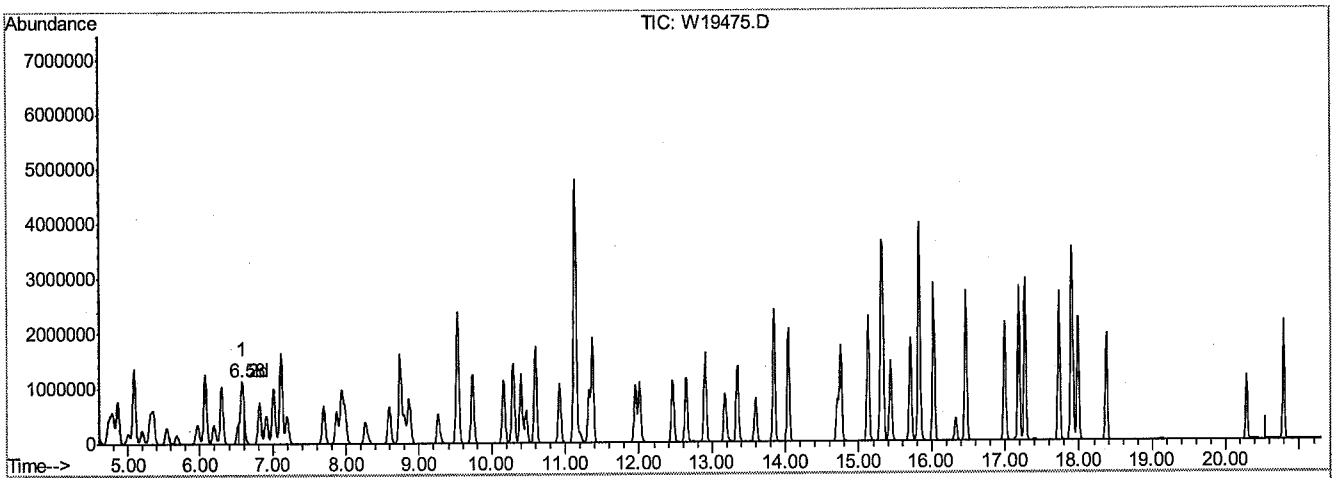
W19475.D MW830.M Wed Dec 31 08:41:50 2008 MSW

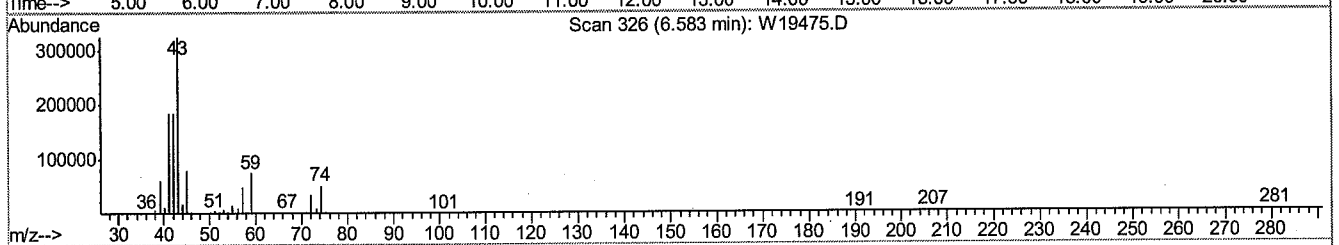
Quantitation Report (Qedit)

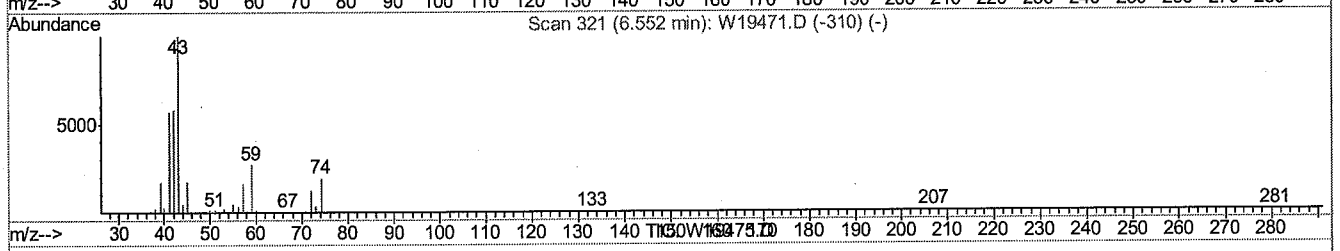
Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:02 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.58min 19.15PPBV m

response 3324855

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.00#
0.00	0.00	0.00

W19475.D MW830.M Wed Dec 31 10:34:38 2008 MSW

6.7.15.3

6

ACCUTEST Laboratories JA8427

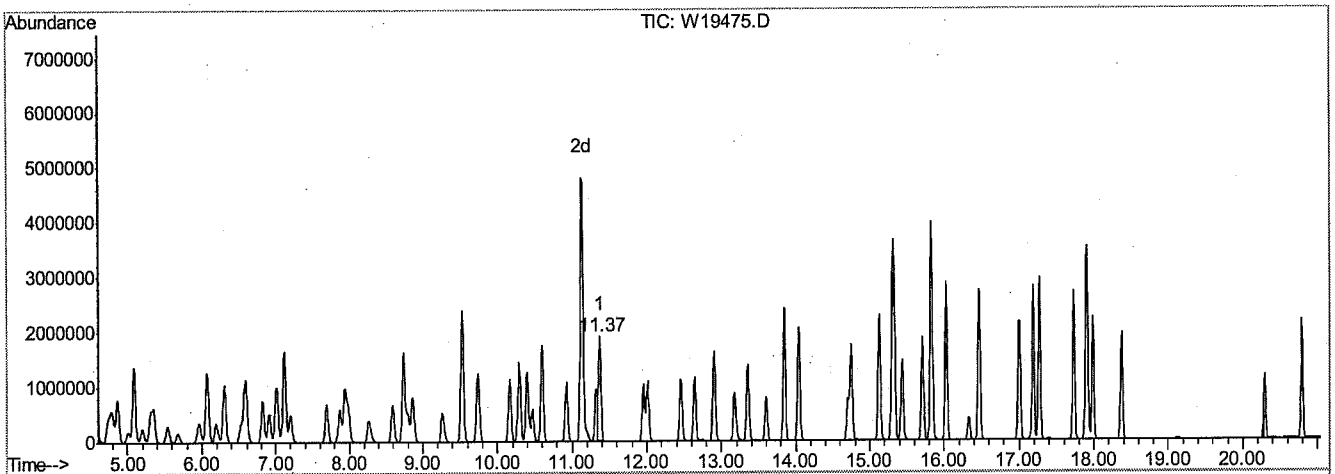
W19475.D edits: TVHC as EQUIV PENTANE

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19475.D
Acq On : 30 Dec 2008 8:33 pm
Sample : IC830-20
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:02 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.37min 21.01PPBV m

response 4448117

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.00#
0.00	0.00	0.00

W19475.D MW830.M Wed Dec 31 10:34:42 2008 MSW

ACCUTEST Laboratories JA8427

Manual Integrations APPROVED (compounds with "m" flag)
Ben Rao
12/31/08 14:10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:02:40 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:02:24 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	121611	10.00	PPBV	0.04
43) 1,4-DIFLUOROBENZENE	10.47	114	615122	10.00	PPBV	0.04
60) CHLOROBENZENE-D5	14.70	117	520706	10.00	PPBV	0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.33	95	192135	5.05	PPBV	0.02
Spiked Amount 5.000	Range 78 - 124		Recovery = 101.00%			
Target Compounds						Qvalue
3) FREON 152A	4.74	65	75688	5.35	PPBV	92
4) CHLORODIFLUOROMETHANE	4.78	67	39763	5.37	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.88	85	374442	5.32	PPBV	99
6) PROPYLENE	4.81	41	109396	5.18	PPBV	96
7) FREON 114	5.09	85	362449	5.39	PPBV	96
8) CHLOROMETHANE	5.02	52	37517	5.44	PPBV #	84
9) VINYL CHLORIDE	5.20	62	133011	5.37	PPBV	100
10) 1,3-BUTADIENE	5.31	54	104855	5.40	PPBV	93
11) n-BUTANE	5.36	43	235736	5.44	PPBV	99
12) BROMOMETHANE	5.55	94	106704	5.45	PPBV	100
13) CHLOROETHANE	5.69	64	73877	5.54	PPBV	99
14) FREON 123	6.08	85	176836	5.19	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.31	101	406116	5.21	PPBV	100
16) ISOPROPYL ALCOHOL	6.52	45	182987m	4.62	PPBV	
17) ACETONE	6.22	58	52497	4.67	PPBV #	85
18) PENTANE	6.59	42	155721	5.03	PPBV	95
19) TVHC as EQUIV PENTANE	6.59	TIC	895936m	4.88	PPBV	
20) ETHYL ETHER	6.63	74	62302	5.12	PPBV	95
21) 1,1-DICHLOROETHYLENE	6.83	96	121572	5.19	PPBV	88
22) CARBON DISULFIDE	7.21	76	358997	5.41	PPBV	97
23) ETHANOL	5.94	45	42544	4.98	PPBV	98
24) BROMOETHENE	5.98	106	107452	5.32	PPBV	99
25) METHYLENE CHLORIDE	6.92	84	104998	4.92	PPBV	91
26) 3-CHLOROPROPENE	7.02	76	55666	5.37	PPBV #	56
27) FREON 113	7.13	151	213581	5.17	PPBV	93
28) TRANS-1,2-DICHLOROETHYLENE	7.70	96	116328	5.53	PPBV	94
29) TERTIARY BUTYL ALCOHOL	7.00	59	200476	5.36	PPBV #	1
30) METHYL TERTIARY BUTYL ETHE	7.95	73	378637	5.25	PPBV	98
31) TETRAHYDROFURAN	9.27	42	146698	5.25	PPBV	94
32) HEXANE	8.75	57	232517	5.50	PPBV	95
33) VINYL ACETATE	7.99	86	29067	5.73	PPBV #	70
34) 1,1-DICHLOROETHANE	7.88	63	263189	5.36	PPBV	99
35) METHYL ETHYL KETONE	8.26	72	51340	5.52	PPBV #	77
36) cis-1,2-DICHLOROETHYLENE	8.59	96	120250	5.36	PPBV	92
37) ETHYL ACETATE	8.80	61	30375	5.43	PPBV #	69
38) CHLOROFORM	8.86	83	291913	5.38	PPBV	98
39) 2,4-DIMETHYLPENTANE	9.53	57	272592	5.49	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.74	97	334108	5.37	PPBV	98
41) CARBON TETRACHLORIDE	10.30	117	358256	5.44	PPBV	99
42) 1,2-DICHLOROETHANE	9.52	62	221605	5.26	PPBV	99
44) BENZENE	10.16	78	375164	5.37	PPBV	98

(#) = qualifier out of range (m) = manual integration
W19476.D MW830.M Wed Dec 31 10:33:21 2008 MSW

6.7.16
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:02:40 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:02:24 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.40	84	168058	5.30 PPBV	89
46) 2,3-DIMETHYLPENTANE	10.60	71	93063	5.33 PPBV	91
47) TRICHLOROETHYLENE	11.13	95	170273	5.10 PPBV	94
48) 1,2-DICHLOROPROPANE	10.92	63	140368	5.25 PPBV	97
49) BROMODICHLOROMETHANE	11.11	83	314657	5.20 PPBV	99
50) 2,2,4-TRIMETHYLPENTANE	11.14	57	725251	5.51 PPBV	100
51) 1,4-DIOXANE	11.22	88	51202	5.51 PPBV #	79
52) METHYL METHACRYLATE	11.33	69	124030	5.29 PPBV #	1
53) HEPTANE	11.37	43	299907	5.33 PPBV	94
54) TVHC as EQUIV HEPTANE	11.37	TIC	1264578m	5.37 PPBV	
55) METHYL ISOBUTYL KETONE	12.01	43	296723	5.50 PPBV	95
56) cis-1,3-DICHLOROPROPENE	11.95	75	223074	5.42 PPBV	91
57) TOLUENE	12.90	92	251737	5.36 PPBV	98
58) trans-1,3-DICHLOROPROPENE	12.45	75	245790	5.50 PPBV	95
59) 1,1,2-TRICHLOROETHANE	12.64	83	115774	5.35 PPBV	98
61) 2-HEXANONE	13.19	43	270407	5.57 PPBV	94
62) TETRACHLOROETHYLENE	14.04	164	147425	5.14 PPBV	96
63) DIBROMOCHLOROMETHANE	13.34	129	262033	5.38 PPBV	100
64) 1,2-DIBROMOETHANE	13.59	107	204031	5.40 PPBV	99
65) OCTANE	13.85	43	409587	5.61 PPBV	93
66) CHLOROBENZENE	14.75	112	308077	5.29 PPBV	95
67) ETHYLBENZENE	15.12	91	582213	5.41 PPBV	98
68) m,p-XYLENE	15.31	106	415753	10.51 PPBV	93
69) o-XYLENE	15.82	106	197913	5.21 PPBV	91
70) STYRENE	15.71	104	298787	5.54 PPBV	97
71) NONANE	16.03	43	401774	5.71 PPBV	95
72) BROMOFORM	15.43	173	231292	5.42 PPBV	99
74) 1,1,2,2-TETRACHLOROETHANE	15.82	83	256608	5.40 PPBV	100
75) ISOPROPYLBENZENE	16.46	105	591227	5.43 PPBV	97
76) 2-CHLOROTOLUENE	17.00	91	432825	5.59 PPBV	96
77) 4-ETHYLTOLUENE	17.18	105	557102	5.45 PPBV	98
78) 1,3,5-TRIMETHYLBENZENE	17.27	105	498789	5.35 PPBV	97
79) 1,2,4-TRIMETHYLBENZENE	17.73	105	476055	5.50 PPBV	97
80) m-DICHLOROBENZENE	17.91	146	269838	5.32 PPBV	98
81) BENZYL CHLORIDE	17.89	91	399617	6.10 PPBV	97
82) p-DICHLOROBENZENE	17.98	146	249862	5.36 PPBV	99
83) o-DICHLOROBENZENE	18.37	146	229138	5.53 PPBV	99
84) HEXACHLOROBUTADIENE	20.79	225	107053	5.31 PPBV	100
85) 1,2,4-TRICHLOROBENZENE	20.29	180	79270	5.28 PPBV	99

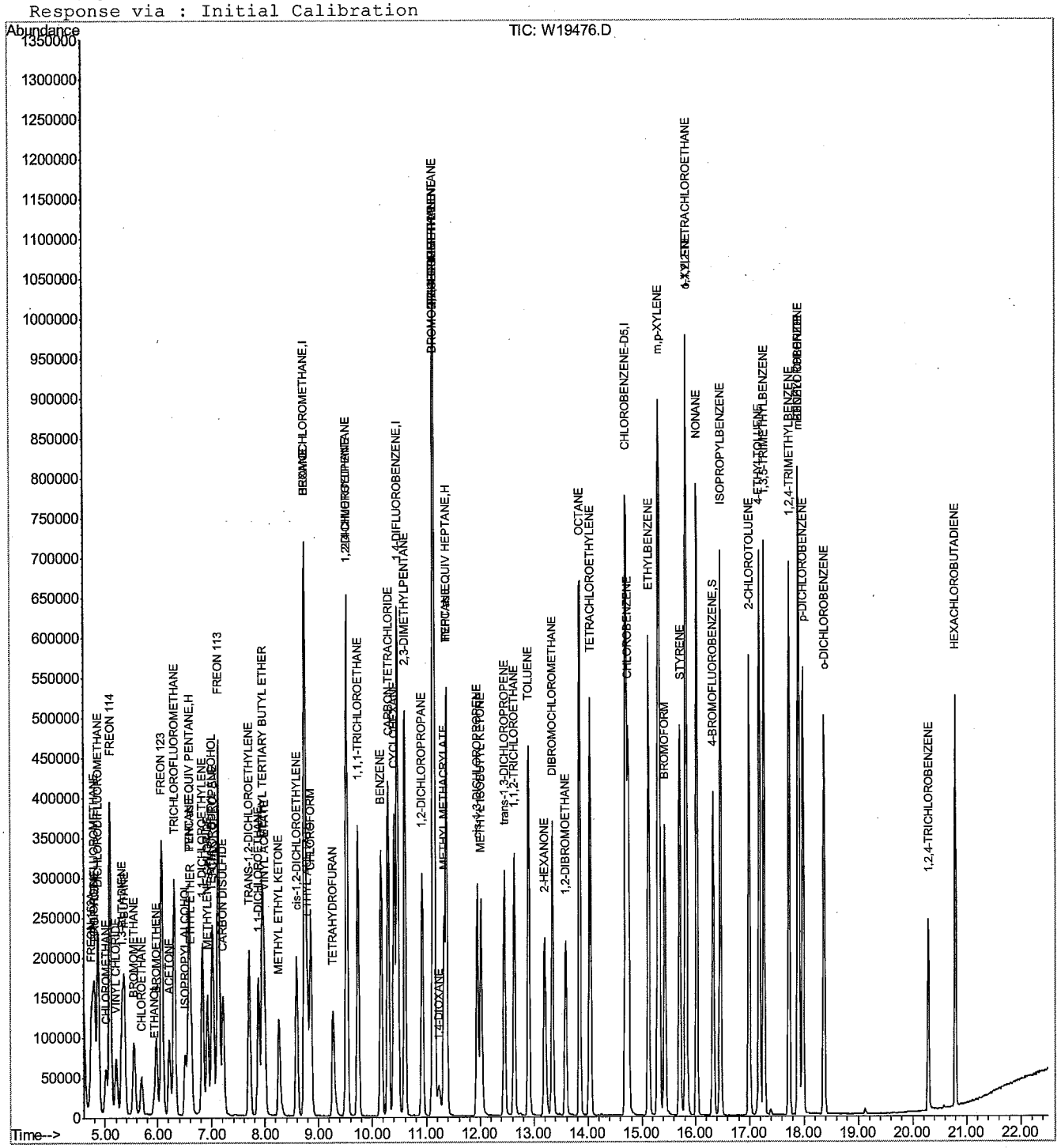
(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19476.D MW830.M Wed Dec 31 10:33:21 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:04 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration

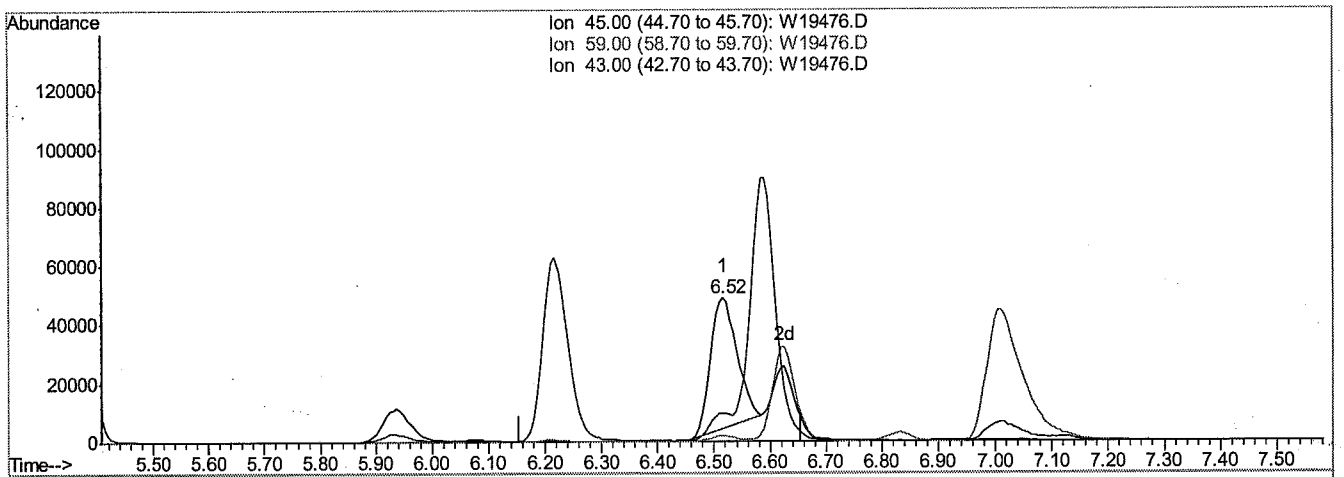


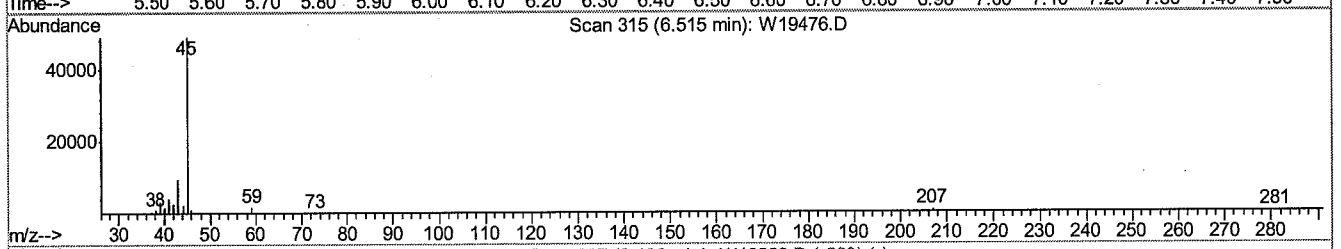
Quantitation Report (Qedit)

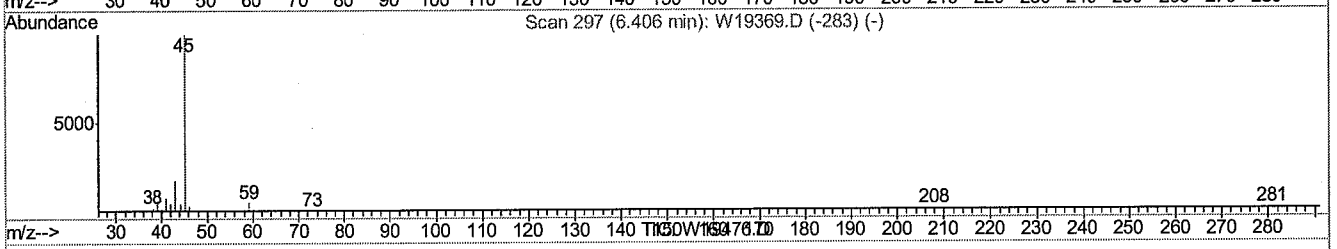
Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:43 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration







(16) ISOPROPYL ALCOHOL

6.52min 5.53PPBV

response 148125

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	3.72
43.00	18.00	19.65
0.00	0.00	0.00

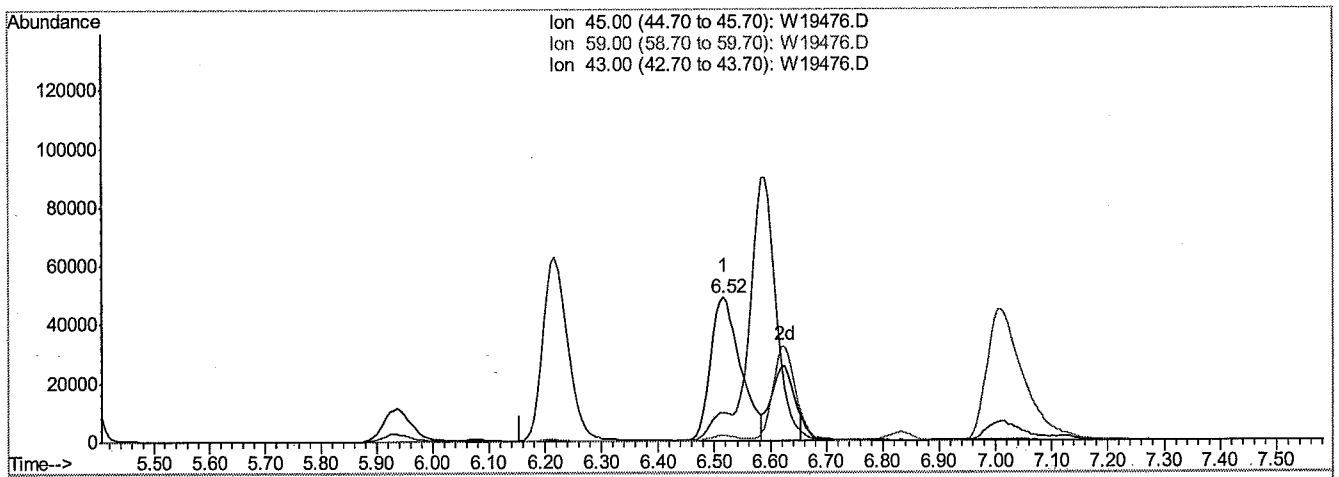
W19476.D MW830.M Wed Dec 31 08:43:15 2008 MSW

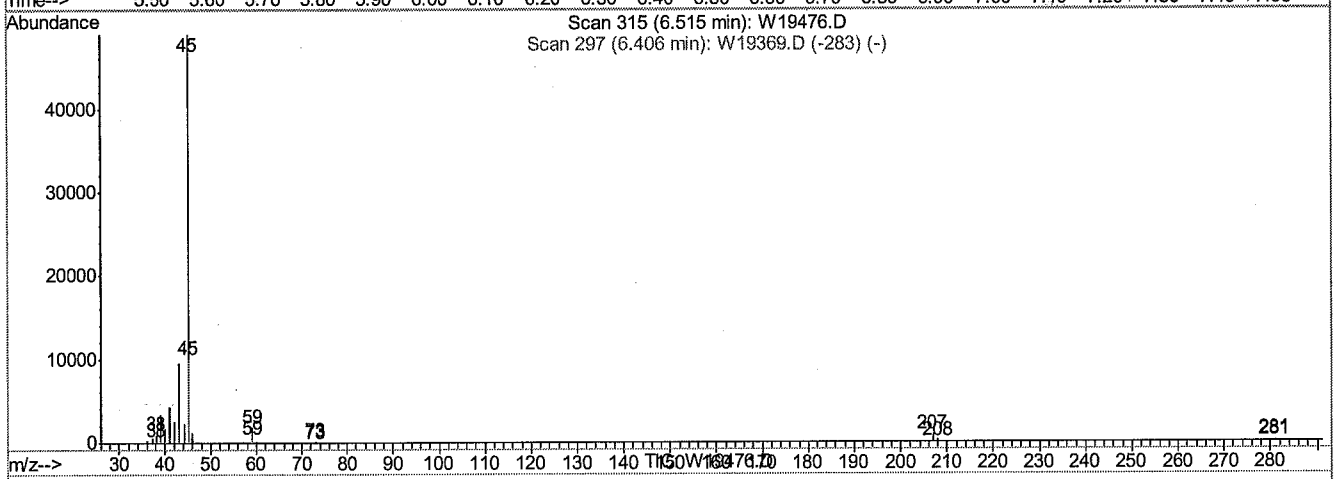
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:43 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(16) ISOPROPYL ALCOHOL

6.52min 6.83PPBV m

response 182987

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	3.72
43.00	18.00	19.65
0.00	0.00	0.00

W19476.D MW830.M Wed Dec 31 08:43:22 2008 MSW

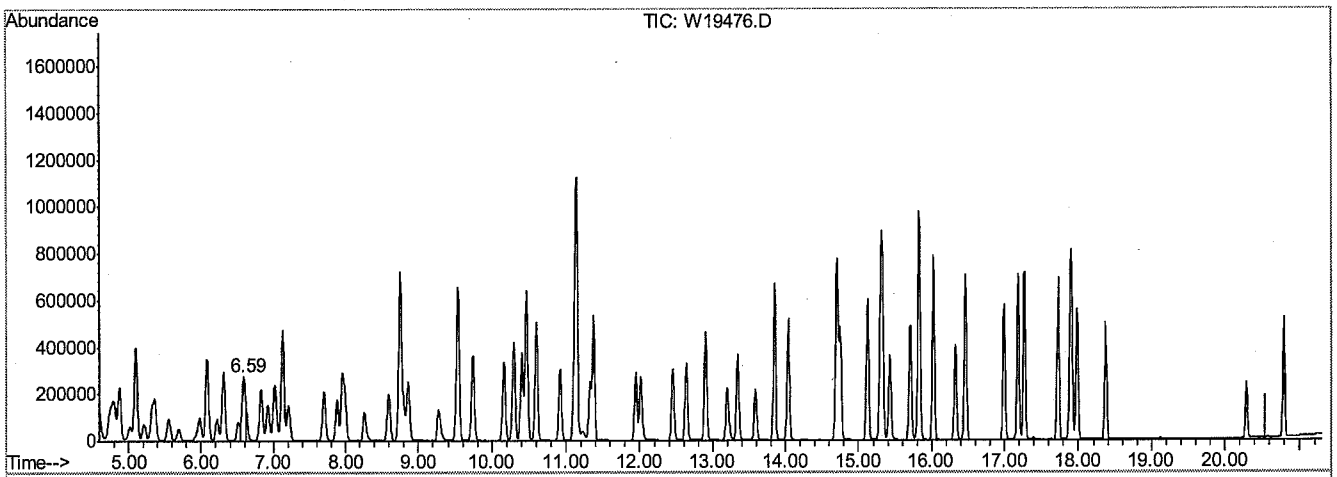
ACCUTEST. Laboratories JA8427

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19476.D
Acq On : 30 Dec 2008 9:13 pm
Sample : IC830-5.0
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:04 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration



(19) TVHC as EQUIV PENTANE (H)

6.59min 4.88PPBV m

response 895936

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19476.D MW830.M Wed Dec 31 10:34:52 2008 MSW

6.7.16.3

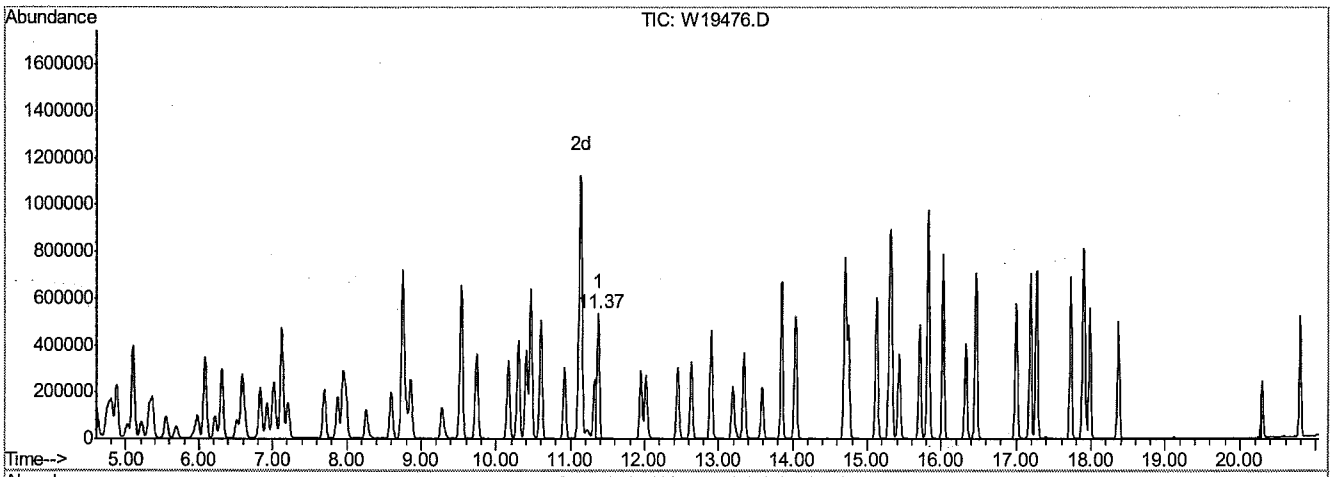
6

ACCUTEST Laboratories JA8427

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19476.D Vial: 2
Acq On : 30 Dec 2008 9:13 pm Operator: BENR
Sample : IC830-5.0 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 9:04 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.37min 5.37PPBV m

response 1264578

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19476.D MW830.M Wed Dec 31 10:34:55 2008 MSW

Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/31/08 14:13

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19477.D Vial: 1
Acq On : 30 Dec 2008 9:53 pm Operator: BENR
Sample : IC830-0.5 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:41 2008 Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.17

6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	113297	10.00	PPBV	0.01
43) 1,4-DIFLUOROBENZENE	10.45	114	587287	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.69	117	473350	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.32	95	170534	5.51	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 110.20%			
Target Compounds						Qvalue
3) FREON 152A	4.74	65	6843	0.51	PPBV #	64
4) CHLORODIFLUOROMETHANE	4.78	67	3440	0.71	PPBV	94
5) DICHLORODIFLUOROMETHANE	4.86	85	33273	0.64	PPBV	98
6) PROPYLENE	4.80	41	10520	0.65	PPBV	93
7) FREON 114	5.09	85	31614	0.53	PPBV	97
8) CHLOROMETHANE	5.01	52	3357	0.55	PPBV #	73
9) VINYL CHLORIDE	5.20	62	11860	0.55	PPBV	99
10) 1,3-BUTADIENE	5.31	54	8738	0.57	PPBV #	67
11) n-BUTANE	5.36	43	20917	0.67	PPBV #	89
12) BROMOMETHANE	5.55	94	9224	0.49	PPBV	94
13) CHLOROETHANE	5.68	64	6492	0.55	PPBV	95
14) FREON 123	6.07	85	16312	0.56	PPBV	97
15) TRICHLOROFLUOROMETHANE	6.31	101	37004	0.70	PPBV	99
16) ISOPROPYL ALCOHOL	6.63	45	24970m	1.00	PPBV	
17) ACETONE	6.22	58	5762	0.62	PPBV #	44
18) PENTANE	6.58	42	16322	0.86	PPBV	86
19) TVHC as EQUIV PENTANE	6.58	TIC	78289m	0.69	PPBV	
20) ETHYL ETHER	6.64	74	5755	0.58	PPBV #	73
21) 1,1-DICHLOROETHYLENE	6.83	96	11490	0.53	PPBV #	75
22) CARBON DISULFIDE	7.20	76	31601	0.56	PPBV	86
23) ETHANOL	5.99	45	4224	0.60	PPBV	89
24) BROMOETHENE	5.98	106	9701	0.53	PPBV #	95
25) METHYLENE CHLORIDE	6.92	84	10619	0.56	PPBV	72
26) 3-CHLOROPROPENE	7.02	76	4684	0.54	PPBV #	1
27) FREON 113	7.12	151	18810	0.54	PPBV	95
28) TRANS-1,2-DICHLOROETHYLENE	7.70	96	10305	0.52	PPBV #	78
29) TERTIARY BUTYL ALCOHOL	7.13	59	17057m	0.67	PPBV	
30) METHYL TERTIARY BUTYL ETHE	7.95	73	34545	0.71	PPBV	91
31) TETRAHYDROFURAN	9.31	42	12989	0.82	PPBV	76
32) HEXANE	8.74	57	19568	0.73	PPBV #	79
33) VINYL ACETATE	7.98	86	2314	0.53	PPBV #	1
34) 1,1-DICHLOROETHANE	7.88	63	23784	0.70	PPBV	99
35) METHYL ETHYL KETONE	8.25	72	4170	0.52	PPBV #	37
36) cis-1,2-DICHLOROETHYLENE	8.59	96	10626	0.51	PPBV #	76
37) ETHYL ACETATE	8.78	61	2506	0.62	PPBV #	1
38) CHLOROFORM	8.84	83	25722	0.70	PPBV	95
39) 2,4-DIMETHYLPENTANE	9.52	57	22527	0.72	PPBV #	94
40) 1,1,1-TRICHLOROETHANE	9.73	97	29496	0.75	PPBV	95
41) CARBON TETRACHLORIDE	10.28	117	29957	0.72	PPBV	99
42) 1,2-DICHLOROETHANE	9.51	62	20090	0.92	PPBV	96
44) BENZENE	10.15	78	31880	0.55	PPBV	94

(#) = qualifier out of range (m) = manual integration
W19477.D MW830.M Wed Dec 31 10:33:23 2008 MSW

ACCUTEST Laboratories
JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19477.D Vial: 1
Acq On : 30 Dec 2008 9:53 pm Operator: BENR
Sample : IC830-0.5 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:41 2008 Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.17 6

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.39	84	14014	0.53 PPBV #	4
46) 2,3-DIMETHYLPENTANE	10.59	71	7854	0.58 PPBV #	69
47) TRICHLOROETHYLENE	11.11	95	13937	0.58 PPBV #	85
48) 1,2-DICHLOROPROPANE	10.90	63	12233	0.63 PPBV	92
49) BROMODICHLOROMETHANE	11.10	83	26295	0.70 PPBV	97
50) 2,2,4-TRIMETHYLPENTANE	11.12	57	56661	0.71 PPBV	97
51) 1,4-DIOXANE	11.31	88	3972	0.45 PPBV #	68
52) METHYL METHACRYLATE	11.34	69	9767	0.55 PPBV #	1
53) HEPTANE	11.36	43	27204	0.92 PPBV #	74
54) TVHC as EQUIV HEPTANE	11.36	TIC	109020m	0.76 PPBV	
55) METHYL ISOBUTYL KETONE	12.05	43	21604	0.72 PPBV	81
56) cis-1,3-DICHLOROPROPENE	11.94	75	17412	0.59 PPBV #	82
57) TOLUENE	12.89	92	19707	0.49 PPBV	93
58) trans-1,3-DICHLOROPROPENE	12.45	75	18697	0.64 PPBV #	79
59) 1,1,2-TRICHLOROETHANE	12.62	83	9474	0.53 PPBV	95
61) 2-HEXANONE	13.22	43	18762	0.75 PPBV	76
62) TETRACHLOROETHYLENE	14.03	164	11589	0.46 PPBV	90
63) DIBROMOCHLOROMETHANE	13.33	129	19793	0.56 PPBV	99
64) 1,2-DIBROMOETHANE	13.58	107	15421	0.52 PPBV	97
65) OCTANE	13.84	43	31951	0.93 PPBV #	74
66) CHLOROBENZENE	14.73	112	24234	0.50 PPBV #	61
67) ETHYLBENZENE	15.12	91	43771	0.57 PPBV	92
68) m,p-XYLENE	15.31	106	30172	1.00 PPBV #	83
69) o-XYLENE	15.82	106	14074	0.49 PPBV #	66
70) STYRENE	15.70	104	19369	0.43 PPBV	89
71) NONANE	16.02	43	29744	0.93 PPBV	79
72) BROMOFORM	15.42	173	14871	0.46 PPBV	97
74) 1,1,2,2-TETRACHLOROETHANE	15.82	83	17409	0.54 PPBV	99
75) ISOPROPYLBENZENE	16.46	105	41825	0.52 PPBV	90
76) 2-CHLOROTOLUENE	17.00	91	29795	0.55 PPBV	86
77) 4-ETHYLTOLUENE	17.18	105	37318	0.50 PPBV	93
78) 1,3,5-TRIMETHYLBENZENE	17.26	105	35637	0.54 PPBV	87
79) 1,2,4-TRIMETHYLBENZENE	17.72	105	31010	0.50 PPBV	91
80) m-DICHLOROBENZENE	17.90	146	16824	0.42 PPBV	93
81) BENZYL CHLORIDE	17.89	91	22064	0.50 PPBV	88
82) p-DICHLOROBENZENE	17.98	146	15601	0.40 PPBV	94
83) o-DICHLOROBENZENE	18.37	146	14255	0.40 PPBV	92
84) HEXACHLOROBUTADIENE	20.79	225	6378	0.46 PPBV	95
85) 1,2,4-TRICHLOROBENZENE	20.29	180	3392	0.29 PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19477.D MW830.M Wed Dec 31 10:33:23 2008 MSW

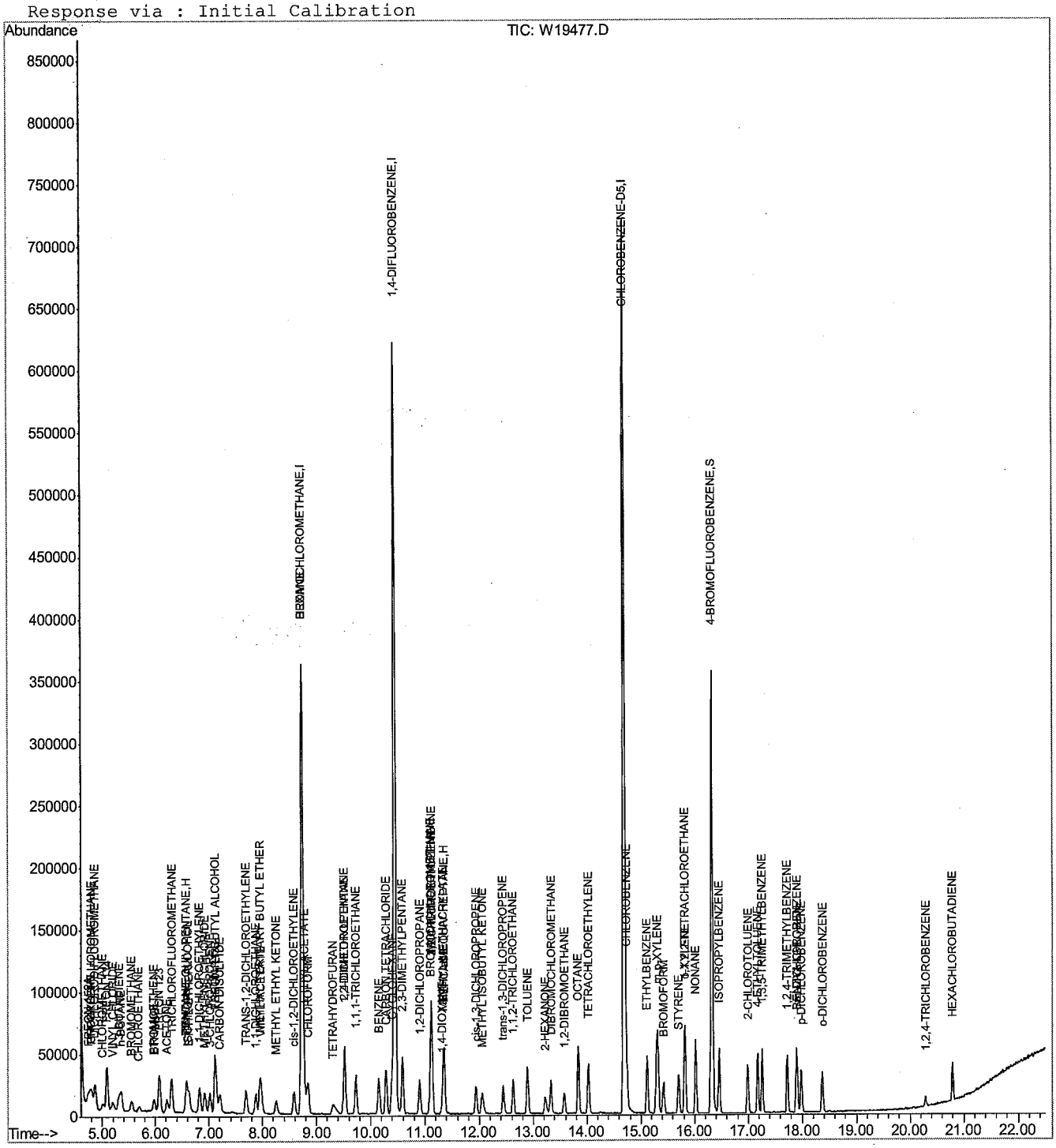
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19477.D
Acq On : 30 Dec 2008 9:53 pm
Sample : IC830-0.5
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:47 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration

6.7.17

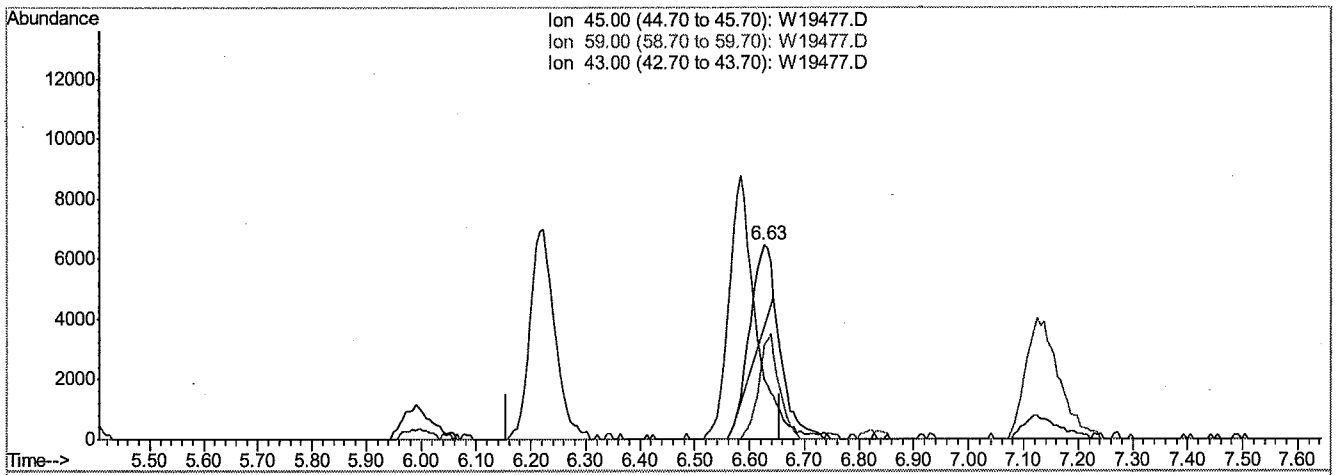


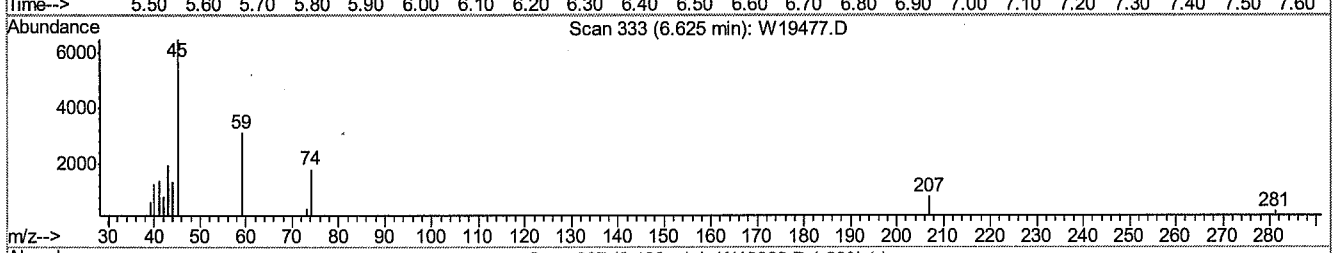
ACCUTEST Laboratories JA8427

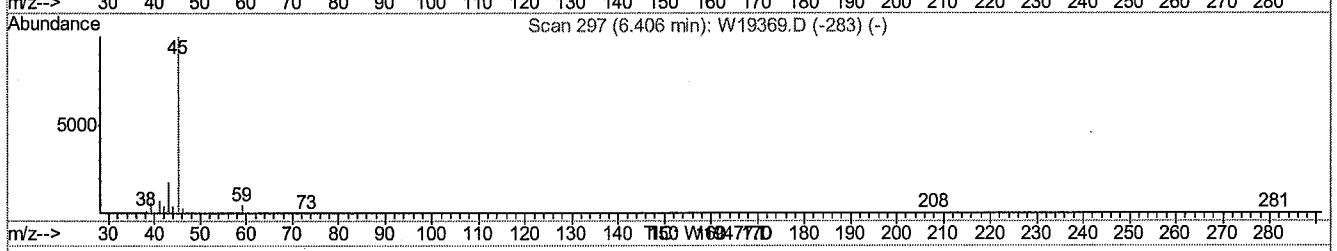
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19477.D Vial: 1
Acq On : 30 Dec 2008 9:53 pm Operator: BENR
Sample : IC830-0.5 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:34 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration







(16) ISOPROPYL ALCOHOL

6.63min 0.31PPBV

response 7733

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	48.36#
43.00	18.00	30.58
0.00	0.00	0.00

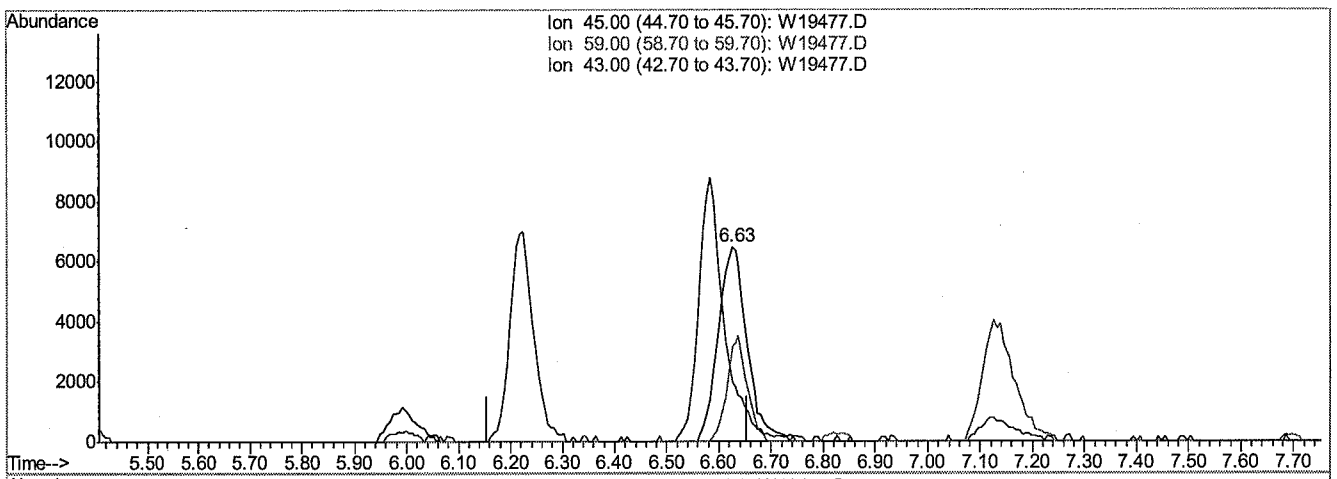
W19477.D MW830.M Wed Dec 31 08:45:38 2008 MSW

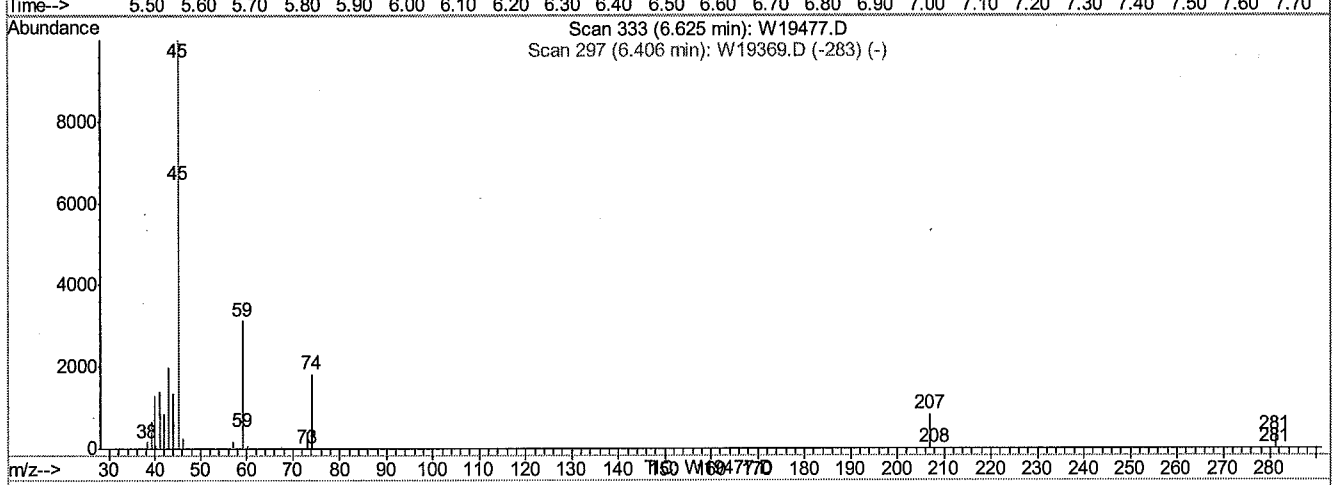
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19477.D
Acq On : 30 Dec 2008 9:53 pm
Sample : IC830-0.5
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:45 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(16) ISOPROPYL ALCOHOL

6.63min 1.00PPBV m

response 24970

Ion	Exp%	Act%
45.00	100	100
59.00	4.40	48.36#
43.00	18.00	30.58
0.00	0.00	0.00

W19477.D MW830.M Wed Dec 31 08:45:44 2008 MSW

6.7.17.2

6

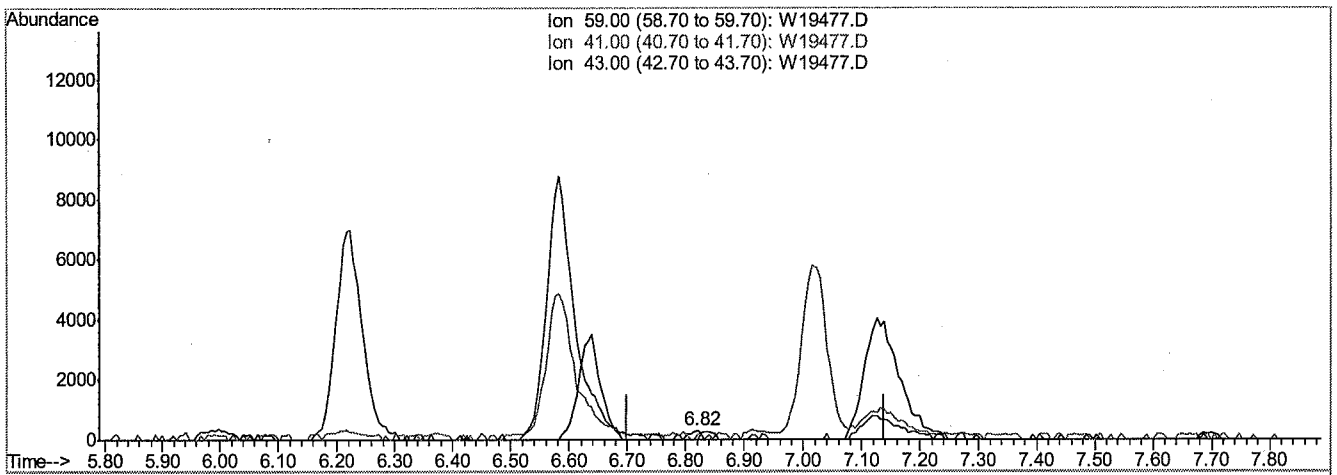
ACCUTEST Laboratories JA8427

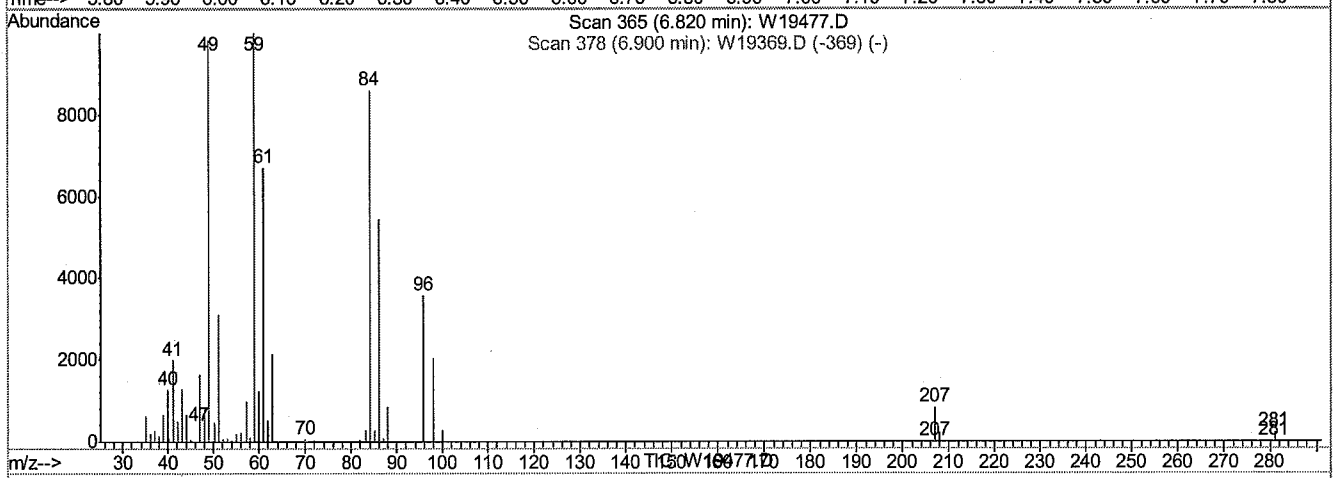
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19477.D
Acq On : 30 Dec 2008 9:53 pm
Sample : IC830-0.5
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:45 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(29) TERTIARY BUTYL ALCOHOL

6.82min 0.03PPBV

response 784

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	17.22
43.00	13.00	7.91
0.00	0.00	0.00

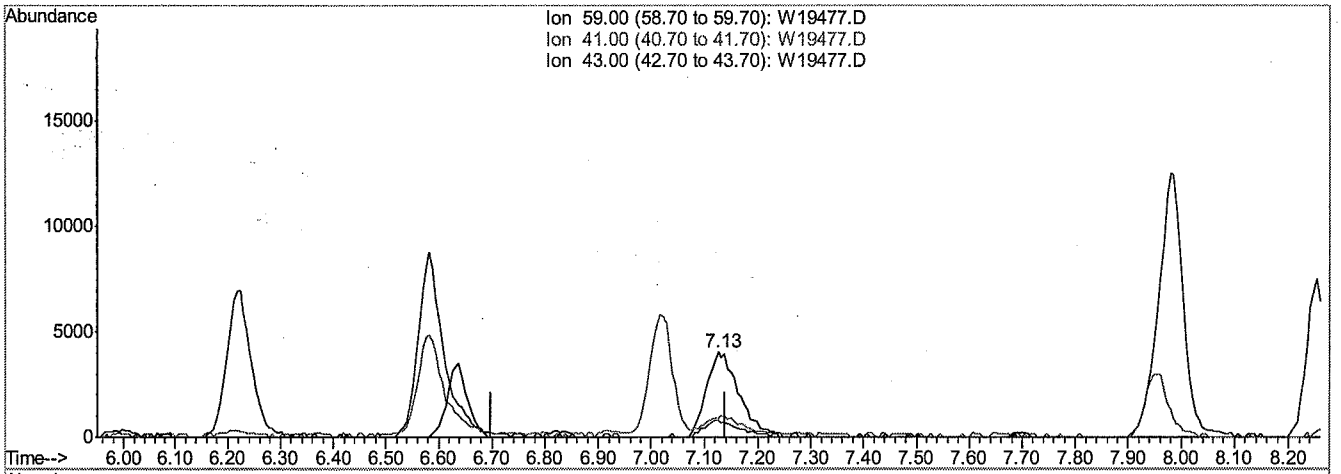
W19477.D MW830.M Wed Dec 31 08:46:10 2008 MSW

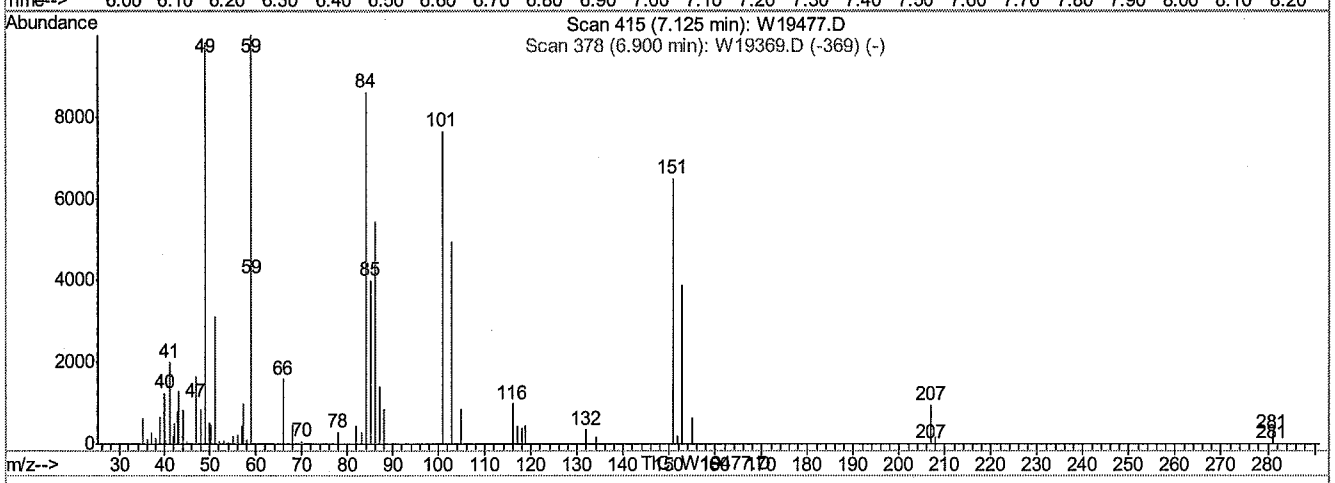
ACCUTEST Laboratories JA8427

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19477.D Vial: 1
Acq On : 30 Dec 2008 9:53 pm Operator: BENR
Sample : IC830-0.5 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:46 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(29) TERTIARY BUTYL ALCOHOL

7.13min 0.67PPBV m

response 17057

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	0.79
43.00	13.00	0.36
0.00	0.00	0.00

W19477.D MW830.M Wed Dec 31 08:46:50 2008 MSW

6.7.17.4

6

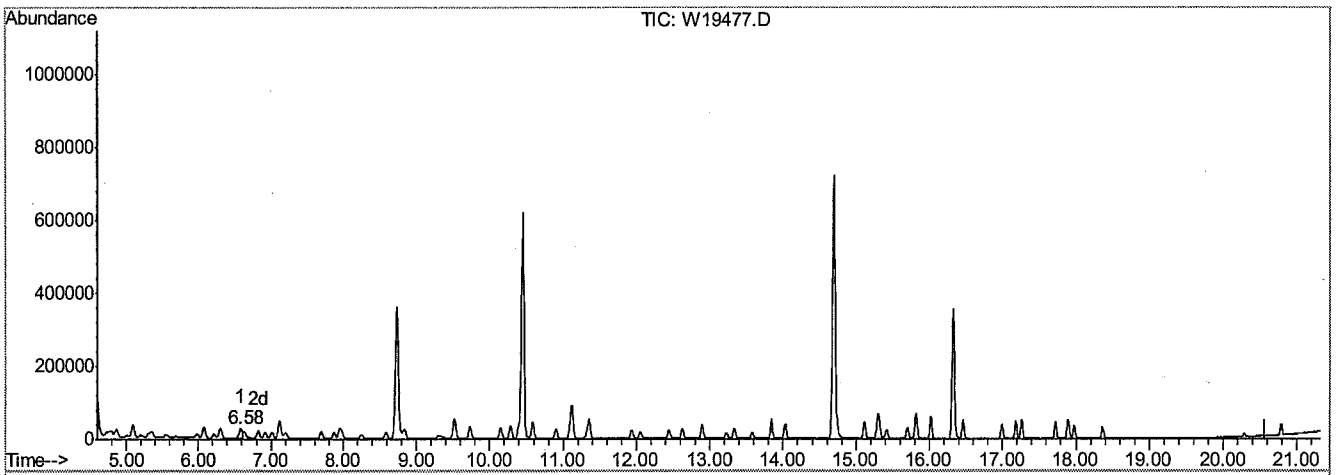
ACCUTEST Laboratories JA8427

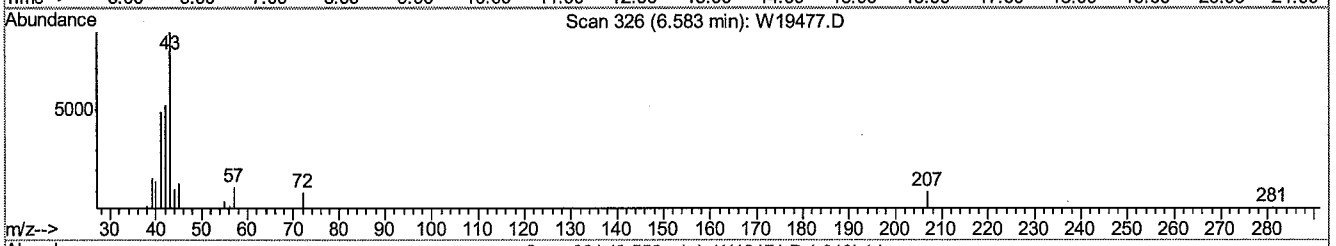
W19477.D edits: TERTIARY BUTYL ALCOHOL

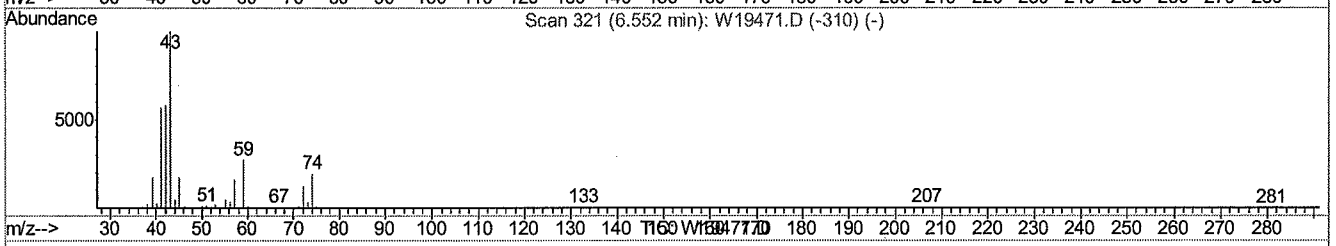
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19477.D Vial: 1
Acq On : 30 Dec 2008 9:53 pm Operator: BENR
Sample : IC830-0.5 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:47 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.58min 0.69PPBV m

response 78289

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

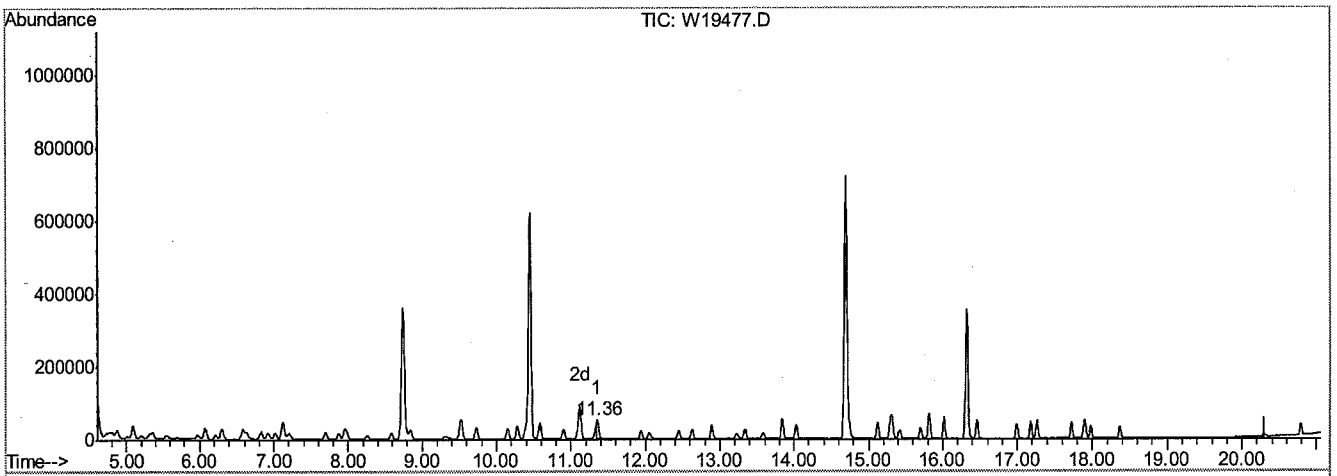
W19477.D MW830.M Wed Dec 31 10:35:02 2008 MSW

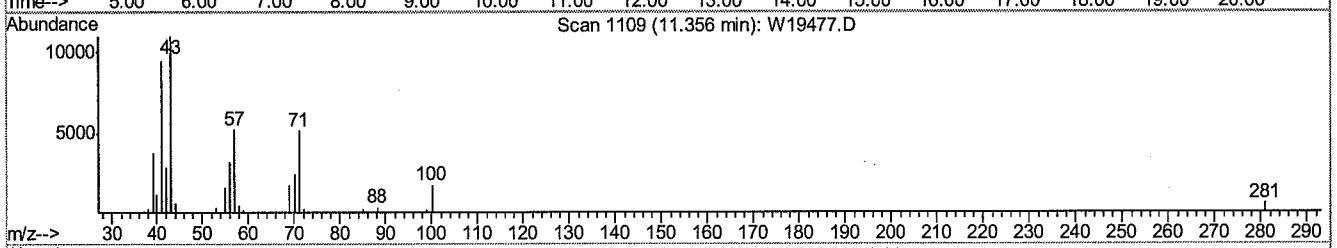
Quantitation Report (Qedit)

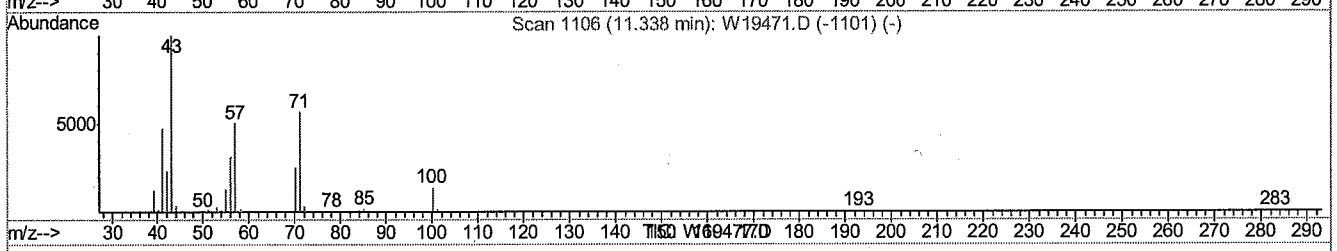
Data File : C:\MSDCHEM\1\DATA\W19477.D
Acq On : 30 Dec 2008 9:53 pm
Sample : IC830-0.5
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:47 2008

Vial: 1
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.36min 0.76PPBV m

response 109020

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19477.D MW830.M Wed Dec 31 10:35:06 2008 MSW

6.7.17.6

6

ACCUTEST Laboratories JA8427

W19477.D edits: TVHC as EQUIV HEPTANE

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19478.D Vial: 6
Acq On : 30 Dec 2008 10:34 pm Operator: BENR
Sample : IC830-10 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:55:27 2008 Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 08:55:17 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	100294	10.00	PPBV	0.00
43) 1,4-DIFLUOROBENZENE	10.44	114	516425	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.69	117	410296	10.00	PPBV	0.00
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.32	95	148181	4.94	PPBV	0.00
Spiked Amount 5.000	Range 78 - 124		Recovery = 98.80%			
Target Compounds						Qvalue
86) NAPHTHALENE	20.42	128	261410	10.00	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19478.D MW830.M Wed Dec 31 10:33:25 2008 MSW

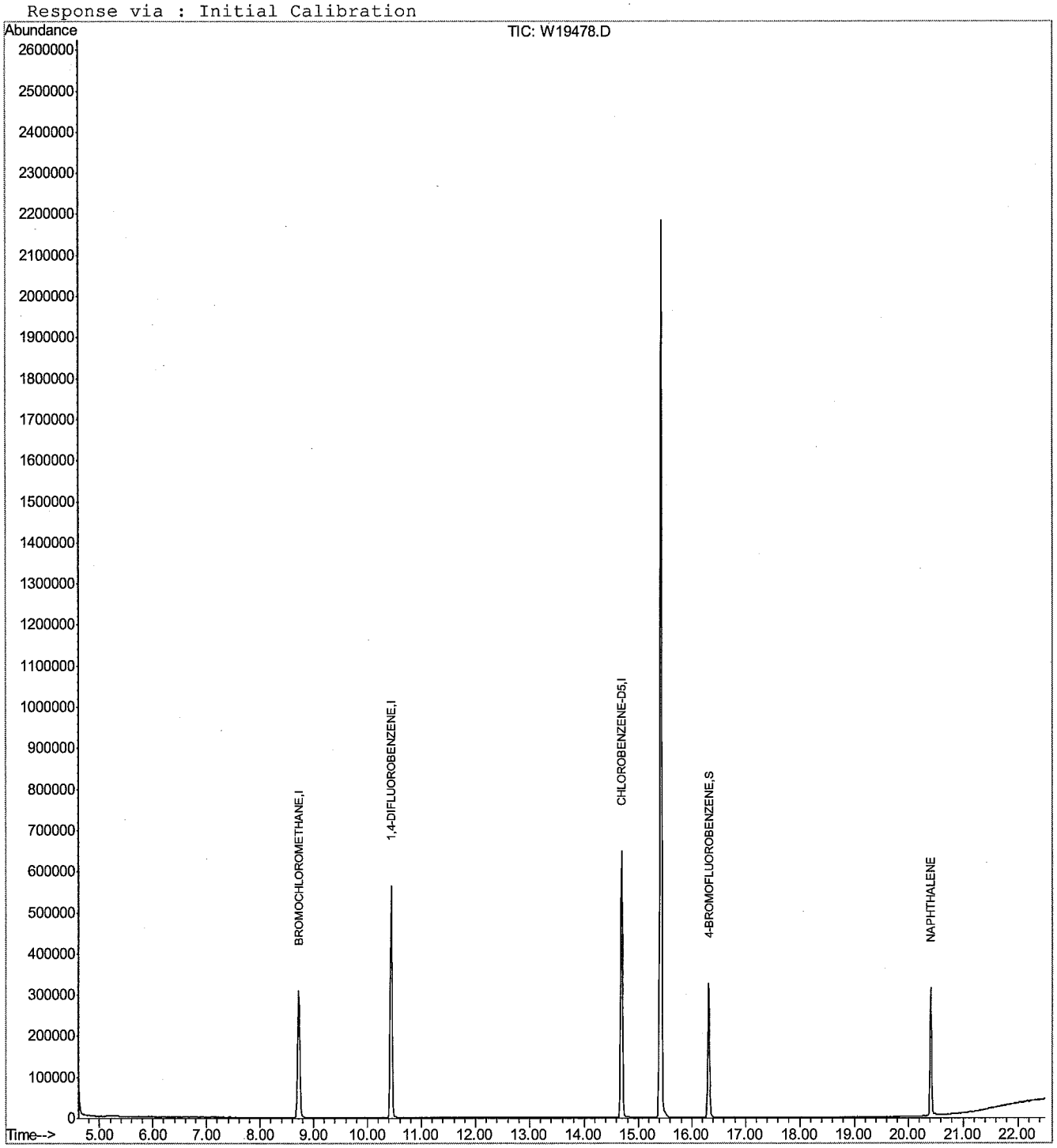
6.7.18 6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19478.D
Acq On : 30 Dec 2008 10:34 pm
Sample : IC830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:56 2008

Vial: 6
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



6.7.18 6

ACCUTEST Laboratories JA8427

W19479.D

Manual Integrations
APPROVED
(compounds with "m" flag)
Ben Rao
12/31/08 14:05

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19479.D Vial: 2
Acq On : 30 Dec 2008 11:14 pm Operator: BENR
Sample : IC830-40 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:46 2008 Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.19

6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.75	128	118351	10.00	PPBV	0.02
43) 1,4-DIFLUOROBENZENE	10.48	114	521072	10.00	PPBV	0.04
60) CHLOROBENZENE-D5	14.71	117	483010	10.00	PPBV	0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.34	95	186114	5.89	PPBV	0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 117.80%			
Target Compounds						Qvalue
3) FREON 152A	4.72	65	489496	35.10	PPBV #	76
4) CHLORODIFLUOROMETHANE	4.76	67	277851	55.25	PPBV	98
5) DICHLORODIFLUOROMETHANE	4.86	85	2554320	46.72	PPBV	99
6) PROPYLENE	4.79	41	712832	42.44	PPBV	92
7) FREON 114	5.08	85	2503663	40.56	PPBV	98
8) CHLOROMETHANE	5.00	52	237488	37.44	PPBV #	85
9) VINYL CHLORIDE	5.19	62	894370	39.42	PPBV	99
10) 1,3-BUTADIENE	5.30	54	752206	46.77	PPBV #	84
11) n-BUTANE	5.35	43	1579010	48.67	PPBV	97
12) BROMOMETHANE	5.53	94	669540	34.37	PPBV	99
13) CHLOROETHANE	5.67	64	465013	37.78	PPBV	95
14) FREON 123	6.06	85	1322224	43.11	PPBV #	98
15) TRICHLOROFLUOROMETHANE	6.30	101	2947619	53.71	PPBV	100
16) ISOPROPYL ALCOHOL	6.55	45	1798771	68.96	PPBV #	1
17) ACETONE	6.19	58	390325	40.41	PPBV #	41
18) PENTANE	6.57	42	1187283	60.12	PPBV	88
19) TVHC as EQUIV PENTANE	6.57	TIC	9615238m	80.71	PPBV	
20) ETHYL ETHER	6.59	74	487368	47.19	PPBV #	77
21) 1,1-DICHLOROETHYLENE	6.81	96	826798	36.57	PPBV #	57
22) CARBON DISULFIDE	7.19	76	2399379	40.39	PPBV	90
23) ETHANOL	5.97	45	294307	40.07	PPBV	99
24) BROMOETHENE	5.96	106	729640	37.95	PPBV #	98
25) METHYLENE CHLORIDE	6.91	84	718461	36.43	PPBV	73
26) 3-CHLOROPROPENE	7.01	76	399902	44.44	PPBV #	9
27) FREON 113	7.11	151	1675520	46.07	PPBV	97
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	749028	35.93	PPBV #	70
29) TERTIARY BUTYL ALCOHOL	7.04	59	1248333m	46.95	PPBV	
30) METHYL TERTIARY BUTYL ETHE	7.94	73	2820987	55.35	PPBV	91
31) TETRAHYDROFURAN	9.27	42	1106436	66.99	PPBV	77
32) HEXANE	8.74	57	1612738	57.33	PPBV #	82
33) VINYL ACETATE	7.99	86	203805	44.63	PPBV #	1
34) 1,1-DICHLOROETHANE	7.88	63	1841252	52.22	PPBV	99
35) METHYL ETHYL KETONE	8.28	72	360932	42.99	PPBV #	16
36) cis-1,2-DICHLOROETHYLENE	8.59	96	804090	37.21	PPBV #	68
37) ETHYL ACETATE	8.81	61	215611	50.69	PPBV #	70
38) CHLOROFORM	8.87	83	2056206	53.80	PPBV	95
39) 2,4-DIMETHYLPENTANE	9.53	57	1978016	60.23	PPBV	96
40) 1,1,1-TRICHLOROETHANE	9.74	97	2443253	59.80	PPBV	96
41) CARBON TETRACHLORIDE	10.30	117	2617000	60.04	PPBV	99
42) 1,2-DICHLOROETHANE	9.53	62	1722497	75.33	PPBV	97
44) BENZENE	10.17	78	2595660	50.72	PPBV	93

(#) = qualifier out of range (m) = manual integration
W19479.D MW830.M Wed Dec 31 10:33:25 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19479.D
Acq On : 30 Dec 2008 11:14 pm
Sample : IC830-40
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 08:34:46 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.19

6

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) CYCLOHEXANE	10.40	84	1151153	48.75 PPBV #	81
46) 2,3-DIMETHYLPENTANE	10.60	71	682300	57.18 PPBV	76
47) TRICHLOROETHYLENE	11.14	95	1480473	70.02 PPBV	97
48) 1,2-DICHLOROPROPANE	10.93	63	1001377	57.99 PPBV	90
49) BROMODICHLOROMETHANE	11.13	83	2576433	77.67 PPBV	100
50) 2,2,4-TRIMETHYLPENTANE	11.15	57	4810925	67.97 PPBV	99
51) 1,4-DIOXANE	11.20	88	332934	42.37 PPBV #	67
52) METHYL METHACRYLATE	11.33	69	1005320	63.28 PPBV #	1
53) HEPTANE	11.37	43	2201570	83.68 PPBV	81
54) TVHC as EQUIV HEPTANE	11.37	TIC	9563585m	75.48 PPBV	
55) METHYL ISOBUTYL KETONE	12.01	43	2314213	86.82 PPBV	85
56) cis-1,3-DICHLOROPROPENE	11.96	75	1654104	63.38 PPBV #	71
57) TOLUENE	12.91	92	1937138	54.22 PPBV	96
58) trans-1,3-DICHLOROPROPENE	12.47	75	1867591	72.41 PPBV	83
59) 1,1,2-TRICHLOROETHANE	12.65	83	878207	55.73 PPBV	96
61) 2-HEXANONE	13.18	43	2168210	84.80 PPBV	81
62) TETRACHLOROETHYLENE	14.04	164	1364879	53.22 PPBV	92
63) DIBROMOCHLOROMETHANE	13.36	129	2204663	61.24 PPBV	99
64) 1,2-DIBROMOETHANE	13.61	107	1657480	54.79 PPBV	99
65) OCTANE	13.85	43	2925704	83.49 PPBV #	83
66) CHLOROBENZENE	14.75	112	2493313	50.56 PPBV	88
67) ETHYLBENZENE	15.14	91	4759352	60.35 PPBV	95
68) m,p-XYLENE	15.33	106	3929655	128.25 PPBV #	88
69) o-XYLENE	15.84	106	1908425	64.58 PPBV #	86
70) STYRENE	15.72	104	2573009	56.55 PPBV	89
71) NONANE	16.03	43	2916800	89.46 PPBV	87
72) BROMOFORM	15.45	173	2206664	66.93 PPBV	100
74) 1,1,2,2-TETRACHLOROETHANE	15.84	83	2322020	70.20 PPBV	99
75) ISOPROPYLBENZENE	16.47	105	5086639	62.04 PPBV	94
76) 2-CHLOROTOLUENE	17.00	91	3534207	64.13 PPBV	91
77) 4-ETHYLTOLUENE	17.19	105	4961821	64.60 PPBV	97
78) 1,3,5-TRIMETHYLBENZENE	17.28	105	4560292	67.81 PPBV	93
79) 1,2,4-TRIMETHYLBENZENE	17.73	105	4303274	68.17 PPBV	94
80) m-DICHLOROBENZENE	17.92	146	2797477	67.66 PPBV	96
81) BENZYL CHLORIDE	17.90	91	3910556	86.66 PPBV	95
82) p-DICHLOROBENZENE	18.00	146	2436765	61.09 PPBV	96
83) o-DICHLOROBENZENE	18.37	146	2098228	58.15 PPBV	95
84) HEXACHLOROBUTADIENE	20.79	225	1070693	75.36 PPBV	100
85) 1,2,4-TRICHLOROBENZENE	20.29	180	941740	78.11 PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19479.D MW830.M Wed Dec 31 10:33:26 2008 MSW

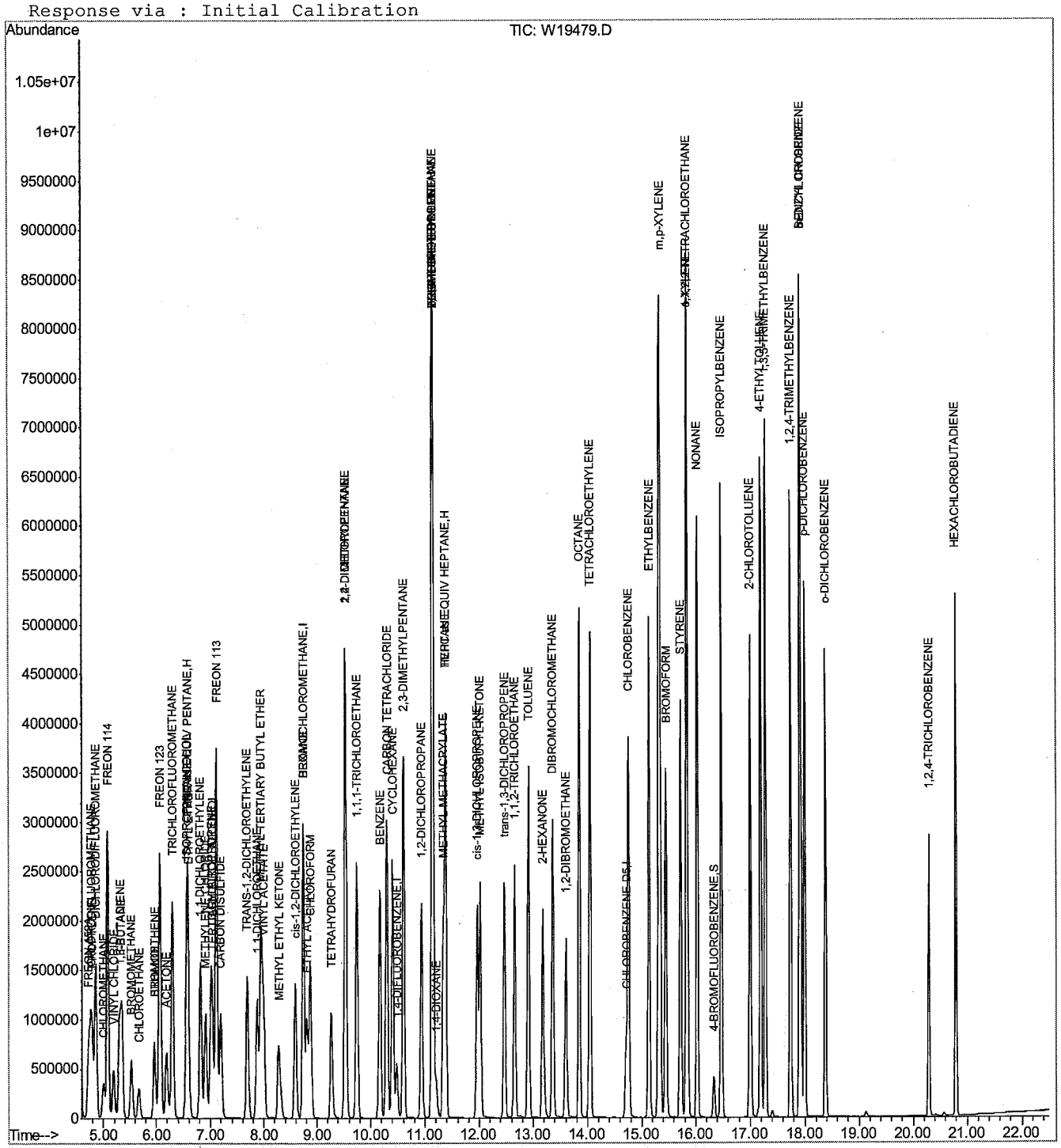
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19479.D
Acq On : 30 Dec 2008 11:14 pm
Sample : IC830-40
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:49 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



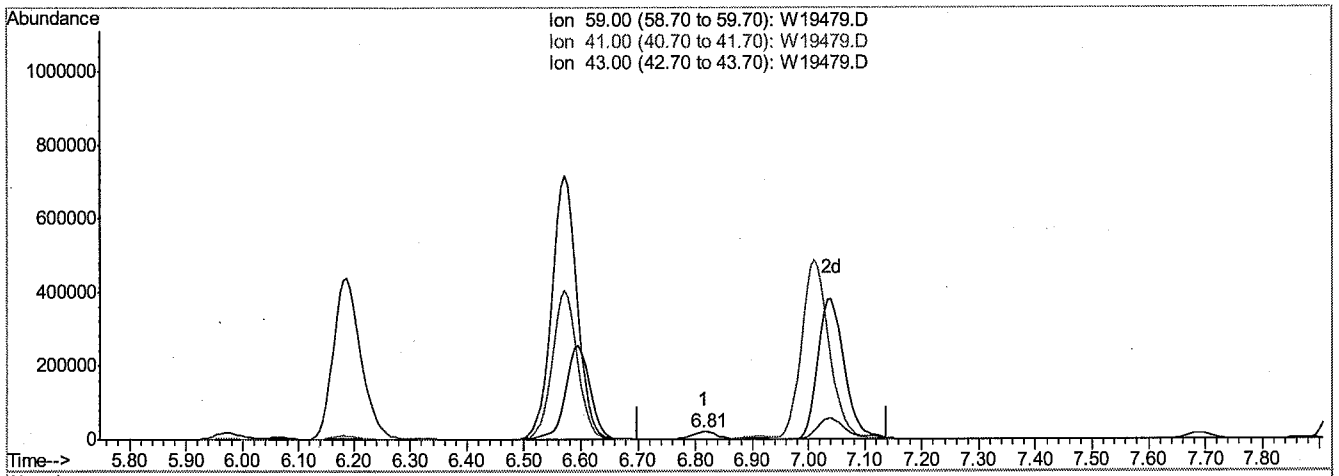
ACCUTEST Laboratories JA8427

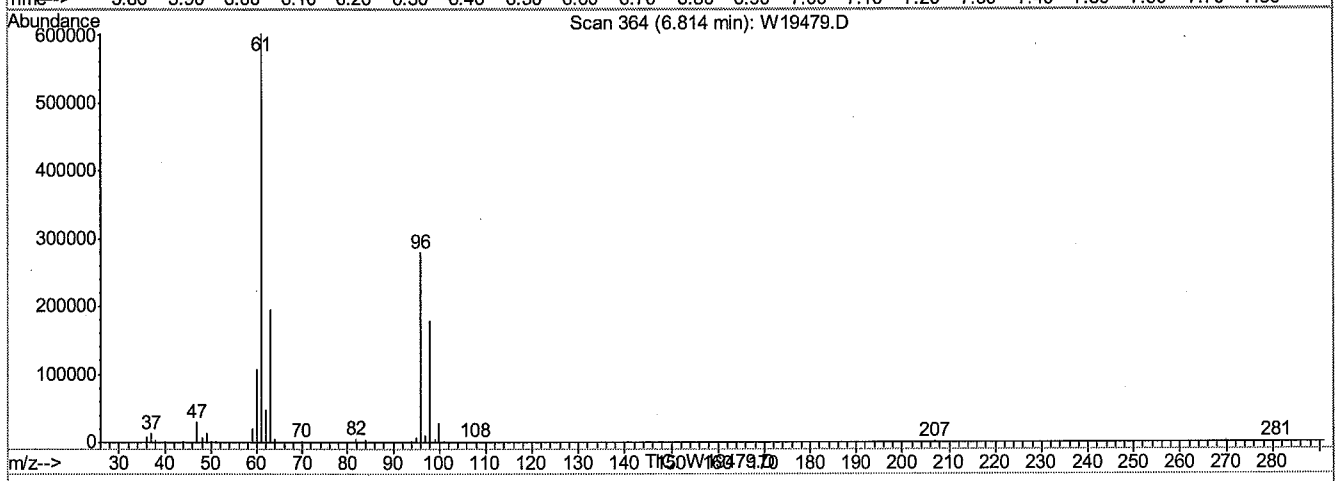
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19479.D
Acq On : 30 Dec 2008 11:14 pm
Sample : IC830-40
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:48 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Tue Dec 23 16:24:50 2008
Response via : Multiple Level Calibration





(29) TERTIARY BUTYL ALCOHOL

6.81min 2.39PPBV

response 63647

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	0.00
43.00	13.00	0.00
0.00	0.00	0.00

W19479.D MW830.M Wed Dec 31 08:49:11 2008 MSW

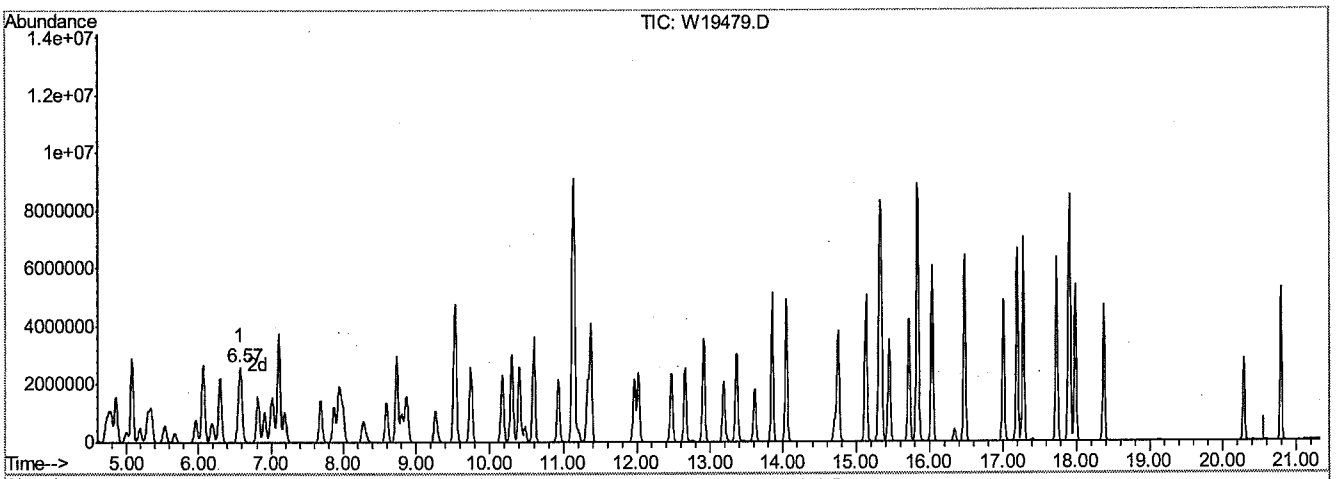
ACCUTEST Laboratories JA8427

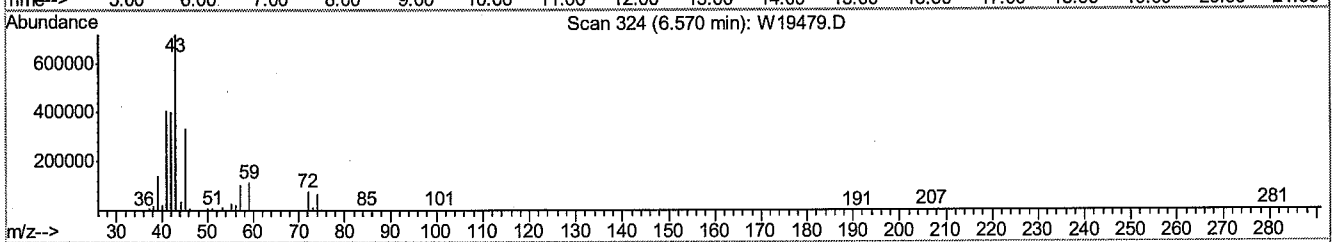
Quantitation Report (Qedit)

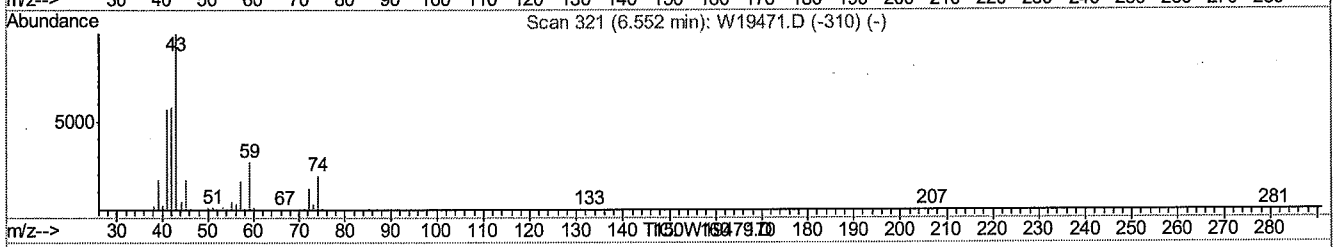
Data File : C:\MSDCHEM\1\DATA\W19479.D
Acq On : 30 Dec 2008 11:14 pm
Sample : IC830-40
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:49 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.57min 80.71PPBV m

response 9615238

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.01#
0.00	0.00	0.00

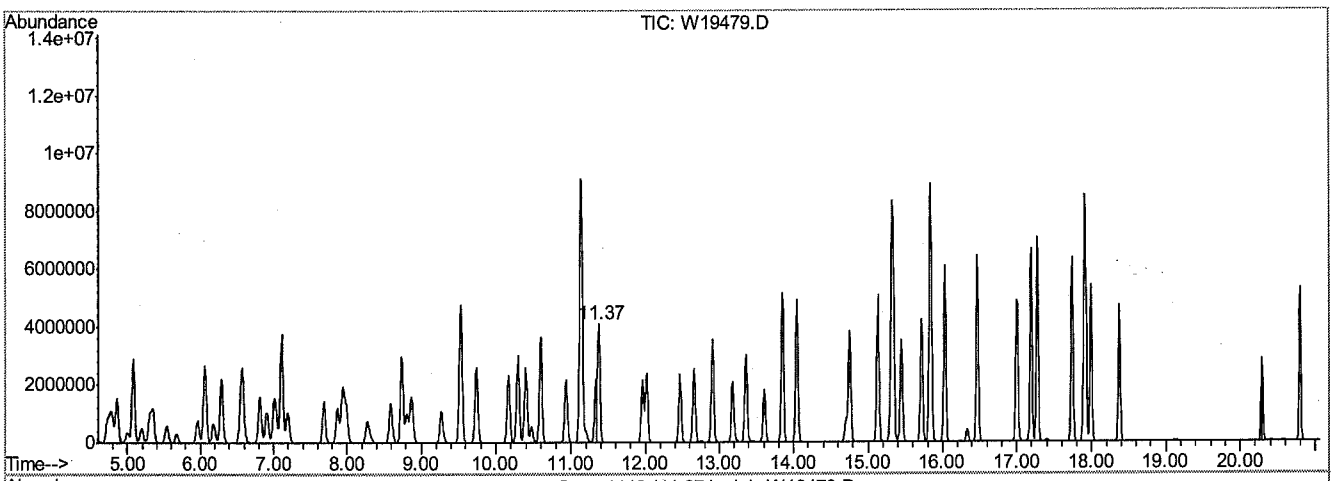
W19479.D MW830.M Wed Dec 31 10:35:14 2008 MSW

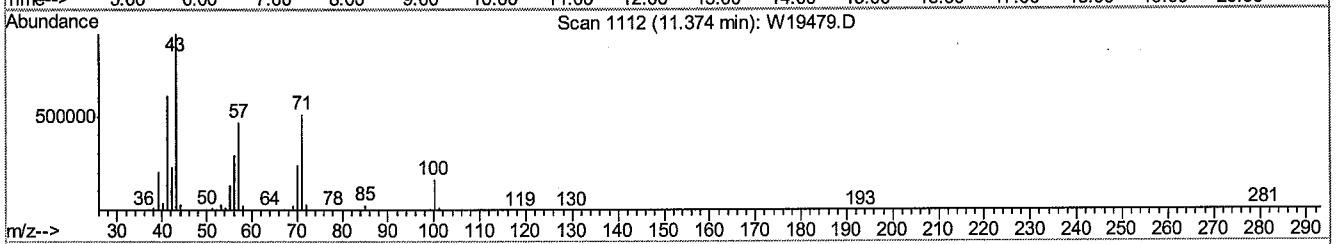
Quantitation Report (Qedit)

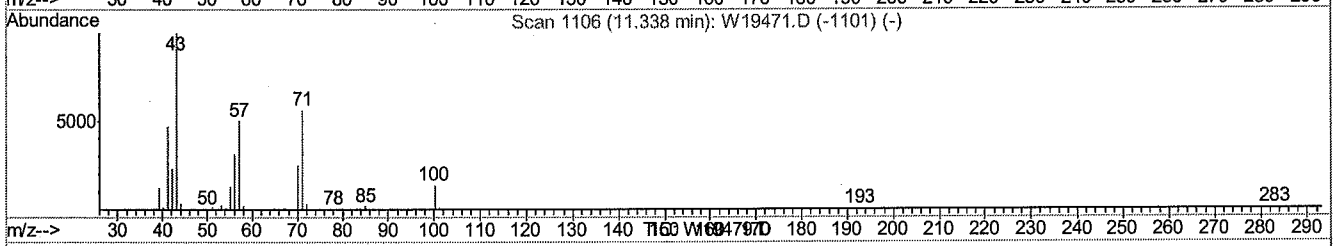
Data File : C:\MSDCHEM\1\DATA\W19479.D
Acq On : 30 Dec 2008 11:14 pm
Sample : IC830-40
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:49 2008

Vial: 2
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(54) TVHC as EQUIV HEPTANE (H)

11.37min 75.48PPBV m

response 9563585

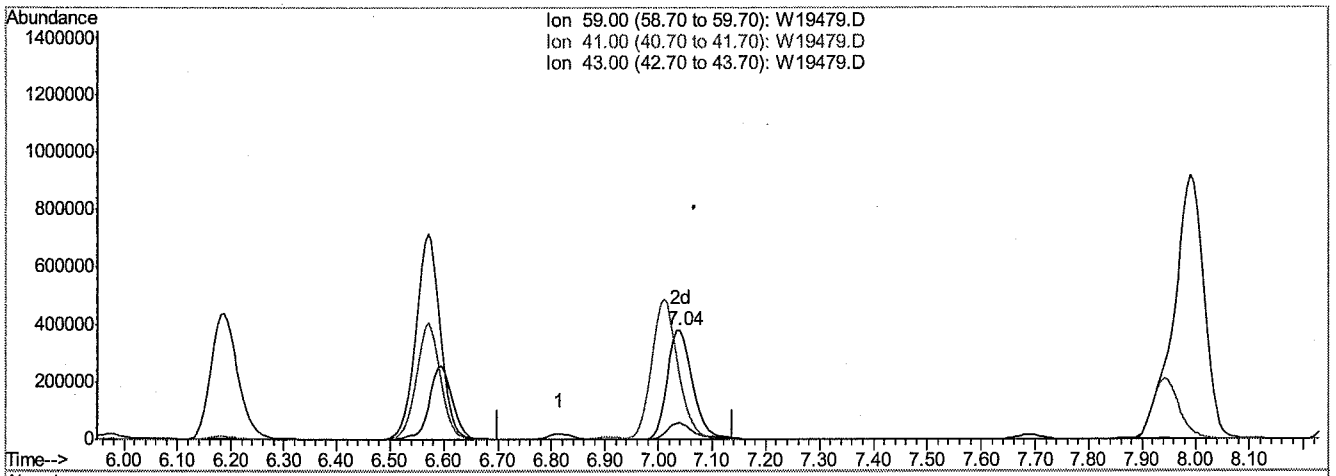
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.01#
0.00	0.00	0.01#
0.00	0.00	0.00

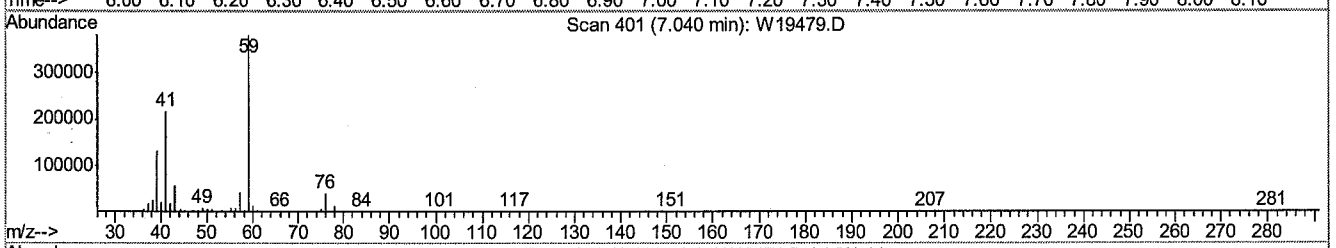
W19479.D MW830.M Wed Dec 31 10:35:19 2008 MSW

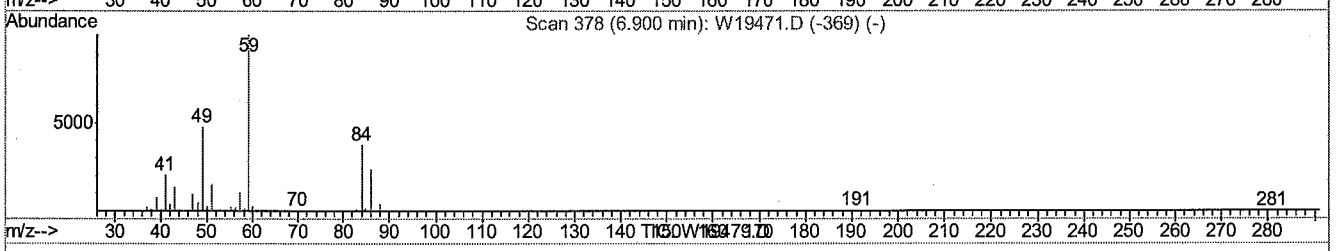
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19479.D Vial: 2
Acq On : 30 Dec 2008 11:14 pm Operator: BENR
Sample : IC830-40 Inst : MSW
Misc : MS49009,VW830,,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 8:49 2008 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(29) TERTIARY BUTYL ALCOHOL

7.04min 46.95PPBV m

response 1248333

Ion	Exp%	Act%
59.00	100	100
41.00	18.70	0.00
43.00	13.00	0.00
0.00	0.00	0.00

W19479.D MW830.M Wed Dec 31 11:04:24 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19480.D
Acq On : 30 Dec 2008 11:55 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 10:31:54 2008

Vial: 7
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.72	128	121337	10.00	PPBV	0.01
43) 1,4-DIFLUOROBENZENE	10.44	114	607956	10.00	PPBV	0.00
60) CHLOROBENZENE-D5	14.75	117	481446	10.00	PPBV	0.07
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.35	95	170665	4.85	PPBV	0.04
Spiked Amount 5.000	Range 78 - 124		Recovery = 97.00%			
Target Compounds						Qvalue
86) NAPHTHALENE	20.42	128	3697	0.12	PPBV	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19480.D MW830.M Wed Dec 31 10:33:28 2008 MSW

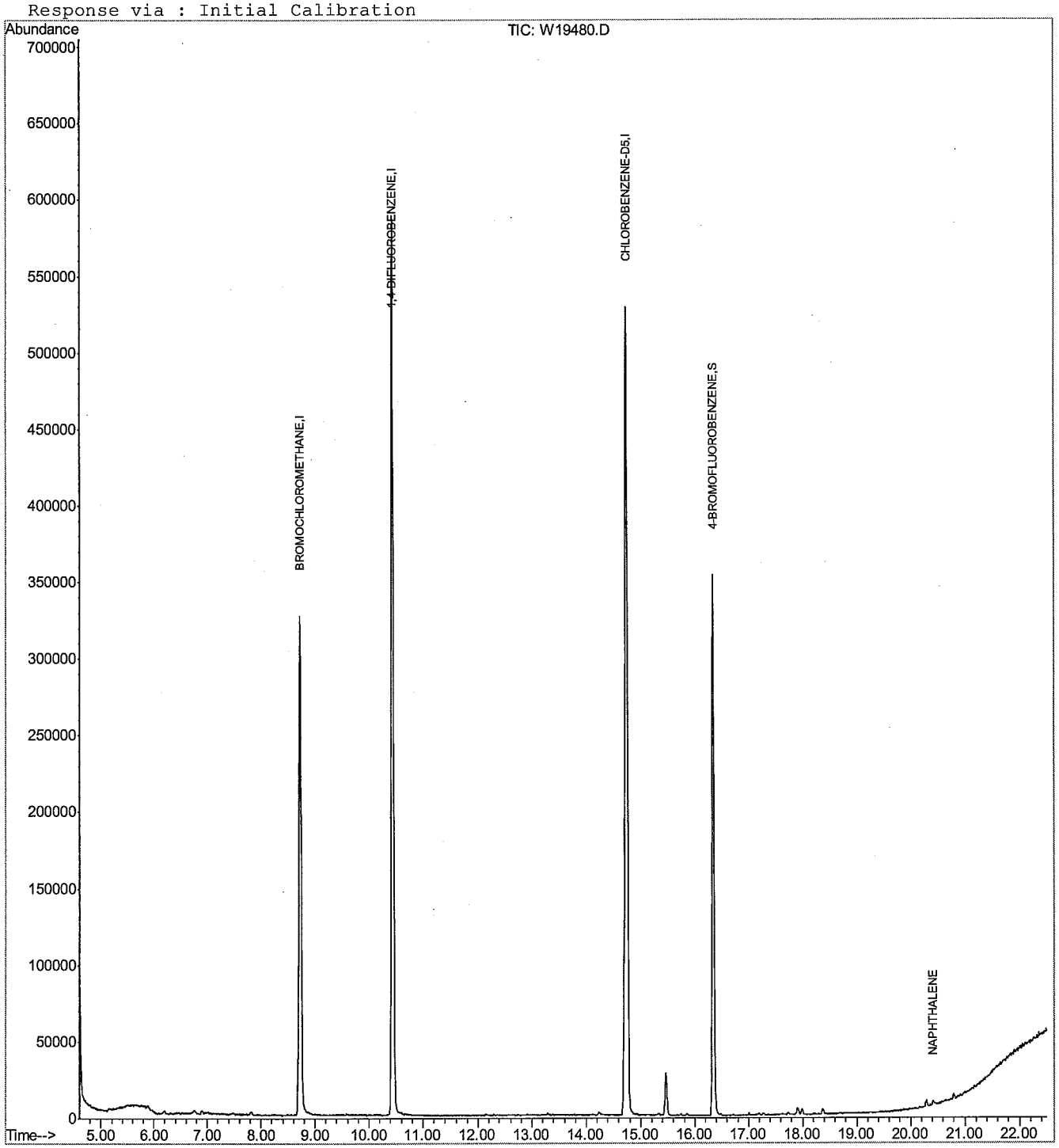
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19480.D
Acq On : 30 Dec 2008 11:55 pm
Sample : IC830-0.2
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 10:32 2008

Vial: 7
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



6.7.20 6

ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19481.D
Acq On : 31 Dec 2008 12:35 am
Sample : ICV830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:05:38 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.73	128	115046	10.00	PPBV	0.02
43) 1,4-DIFLUOROBENZENE	10.45	114	558878	10.00	PPBV	0.02
60) CHLOROBENZENE-D5	14.70	117	474706	10.00	PPBV	0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.32	95	180187	5.19	PPBV	0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 103.80%			
Target Compounds						Qvalue
3) FREON 152A	4.73	65	125050	9.34	PPBV	92
4) CHLORODIFLUOROMETHANE	4.77	67	67845	9.68	PPBV	100
5) DICHLORODIFLUOROMETHANE	4.86	85	622138	9.35	PPBV	99
6) PROPYLENE	4.80	41	182420	9.14	PPBV	98
7) FREON 114	5.08	85	599983	9.44	PPBV	96
8) CHLOROMETHANE	5.01	52	60543	9.28	PPBV	91
9) VINYL CHLORIDE	5.19	62	222723	9.51	PPBV	99
10) 1,3-BUTADIENE	5.31	54	179632	9.77	PPBV #	84
11) n-BUTANE	5.35	43	393839	9.62	PPBV	99
12) BROMOMETHANE	5.54	94	172795	9.32	PPBV	99
13) CHLOROETHANE	5.68	64	119919	9.51	PPBV	98
14) FREON 123	6.06	85	314215	9.76	PPBV	99
15) TRICHLOROFLUOROMETHANE	6.30	101	701944	9.53	PPBV	100
16) ISOPROPYL ALCOHOL	6.48	45	322495	8.61	PPBV	97
17) ACETONE	6.19	58	94551	8.90	PPBV #	85
18) PENTANE	6.58	42	280346	9.54	PPBV	99
19) TVHC as EQUIV PENTANE	6.58	TIC	1864817m	10.72	PPBV	
20) ETHYL ETHER	6.60	74	107419	9.34	PPBV	94
21) 1,1-DICHLOROETHYLENE	6.82	96	205925	9.30	PPBV #	82
22) CARBON DISULFIDE	7.20	76	615813	9.80	PPBV	96
23) ETHANOL	5.90	45	76141	9.41	PPBV	98
24) BROMOETHENE	5.97	106	187519	9.81	PPBV	99
25) METHYLENE CHLORIDE	6.91	84	182213	9.04	PPBV	87
26) 3-CHLOROPROPENE	7.01	76	99264	10.13	PPBV #	49
27) FREON 113	7.11	151	370658	9.49	PPBV	94
28) TRANS-1,2-DICHLOROETHYLENE	7.69	96	199637	10.03	PPBV	91
29) TERTIARY BUTYL ALCOHOL	6.97	59	326321	9.23	PPBV #	73
30) METHYL TERTIARY BUTYL ETHE	7.93	73	643380	9.44	PPBV	96
31) TETRAHYDROFURAN	9.25	42	255631	9.66	PPBV	92
32) HEXANE	8.73	57	403648	10.09	PPBV	94
33) VINYL ACETATE	7.98	86	48208	10.05	PPBV #	56
34) 1,1-DICHLOROETHANE	7.86	63	456940	9.83	PPBV	99
35) METHYL ETHYL KETONE	8.24	72	86277	9.80	PPBV #	72
36) cis-1,2-DICHLOROETHYLENE	8.58	96	202320	9.52	PPBV #	88
37) ETHYL ACETATE	8.78	61	51441	9.73	PPBV #	59
38) CHLOROFORM	8.85	83	507308	9.88	PPBV	97
39) 2,4-DIMETHYLPENTANE	9.52	57	471013	10.03	PPBV	98
40) 1,1,1-TRICHLOROETHANE	9.73	97	583993	9.92	PPBV	98
41) CARBON TETRACHLORIDE	10.28	117	618987	9.93	PPBV	99
42) 1,2-DICHLOROETHANE	9.51	62	396927	9.96	PPBV	99
44) BENZENE	10.15	78	636368	10.03	PPBV	98

(#) = qualifier out of range (m) = manual integration
W19481.D MW830.M Wed Dec 31 10:36:23 2008 MSW

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19481.D
Acq On : 31 Dec 2008 12:35 am
Sample : ICV830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 09:05:38 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

6.7.21 6

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	CYCLOHEXANE	10.39	84	285389	9.91 PPBV		93
46)	2,3-DIMETHYLPENTANE	10.59	71	159853	10.07 PPBV		89
47)	TRICHLOROETHYLENE	11.12	95	304221	10.02 PPBV		95
48)	1,2-DICHLOROPROPANE	10.91	63	239854	9.87 PPBV		96
49)	BROMODICHLOROMETHANE	11.10	83	569733	10.36 PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.12	57	1328997	11.11 PPBV		100
51)	1,4-DIOXANE	11.19	88	91714	10.86 PPBV	#	83
52)	METHYL METHACRYLATE	11.31	69	210369	9.87 PPBV	#	1
53)	HEPTANE	11.36	43	533157	10.43 PPBV		93
54)	TVHC as EQUIV HEPTANE	11.36	TIC	2093111m	9.79 PPBV		
55)	METHYL ISOBUTYL KETONE	12.00	43	536085	10.93 PPBV		94
56)	cis-1,3-DICHLOROPROPENE	11.94	75	384081	10.26 PPBV		89
57)	TOLUENE	12.89	92	429379	10.07 PPBV		100
58)	trans-1,3-DICHLOROPROPENE	12.44	75	424939	10.47 PPBV		94
59)	1,1,2-TRICHLOROETHANE	12.63	83	197448	10.05 PPBV		98
61)	2-HEXANONE	13.17	43	493251	11.14 PPBV		93
62)	TETRACHLOROETHYLENE	14.03	164	257414	9.85 PPBV		96
63)	DIBROMOCHLOROMETHANE	13.34	129	475435	10.70 PPBV		100
64)	1,2-DIBROMOETHANE	13.58	107	351247	10.20 PPBV		99
65)	OCTANE	13.84	43	717538	10.78 PPBV		93
66)	CHLOROBENZENE	14.74	112	527821	9.94 PPBV		96
67)	ETHYLBENZENE	15.12	91	1000386	10.19 PPBV		98
68)	m,p-XYLENE	15.31	106	722537	20.04 PPBV		94
69)	o-XYLENE	15.82	106	350566	10.12 PPBV		93
70)	STYRENE	15.70	104	516326	10.51 PPBV		96
71)	NONANE	16.02	43	724887	11.30 PPBV		95
72)	BROMOFORM	15.42	173	417900	10.73 PPBV		99
74)	1,1,2,2-TETRACHLOROETHANE	15.82	83	454065	10.49 PPBV		99
75)	ISOPROPYLBENZENE	16.46	105	1077759	10.87 PPBV		97
76)	2-CHLOROTOLUENE	17.00	91	787159	11.15 PPBV		96
77)	4-ETHYLTOLUENE	17.18	105	994557	10.67 PPBV		98
78)	1,3,5-TRIMETHYLBENZENE	17.26	105	873751	10.28 PPBV		97
79)	1,2,4-TRIMETHYLBENZENE	17.73	105	833995	10.57 PPBV		97
80)	m-DICHLOROBENZENE	17.90	146	483355	10.46 PPBV		98
81)	BENZYL CHLORIDE	17.89	91	749013	12.54 PPBV		98
82)	p-DICHLOROBENZENE	17.98	146	444563	10.46 PPBV		98
83)	o-DICHLOROBENZENE	18.37	146	401128	10.62 PPBV		98
84)	HEXACHLOROBUTADIENE	20.79	225	204464	11.13 PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.29	180	160618	13.31 PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
W19481.D MW830.M Wed Dec 31 10:36:23 2008 MSW

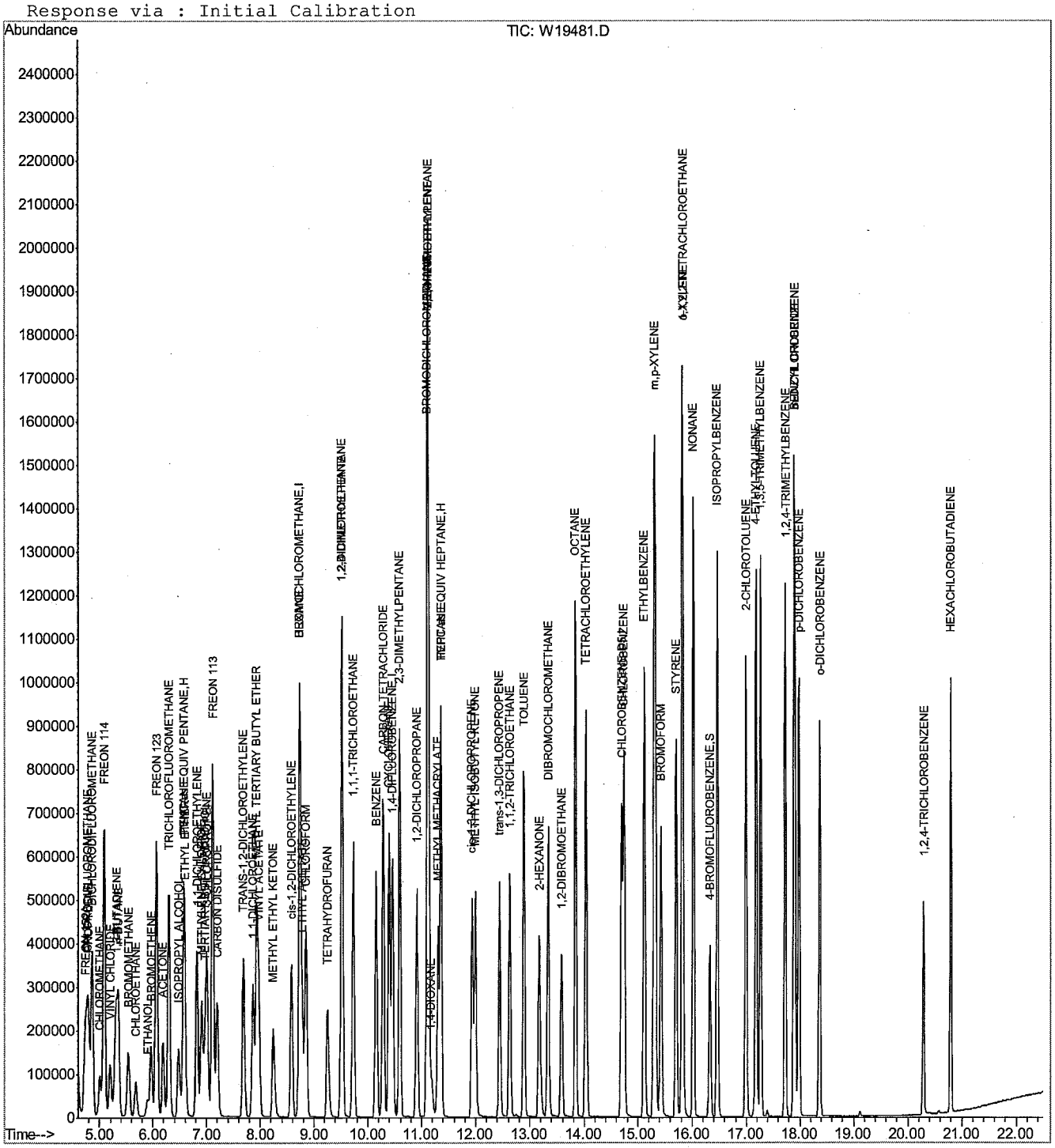
ACCUTEST Laboratories JA8427

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19481.D
Acq On : 31 Dec 2008 12:35 am
Sample : ICV830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 10:36 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration

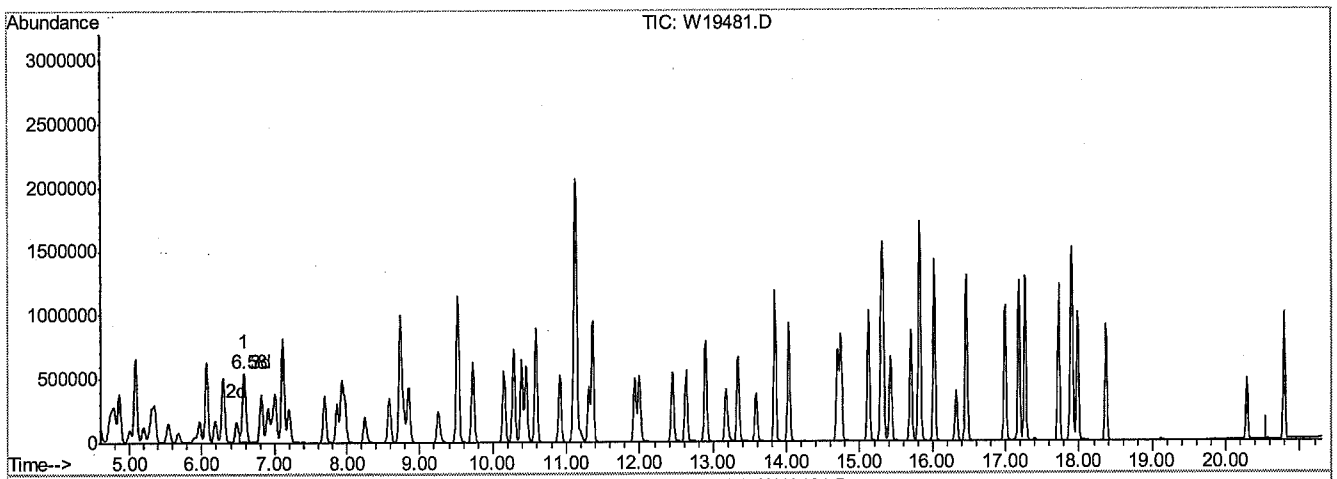


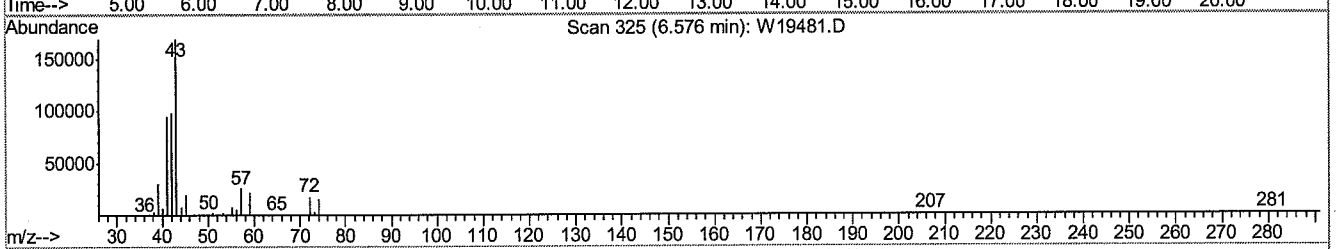
Quantitation Report (Qedit)

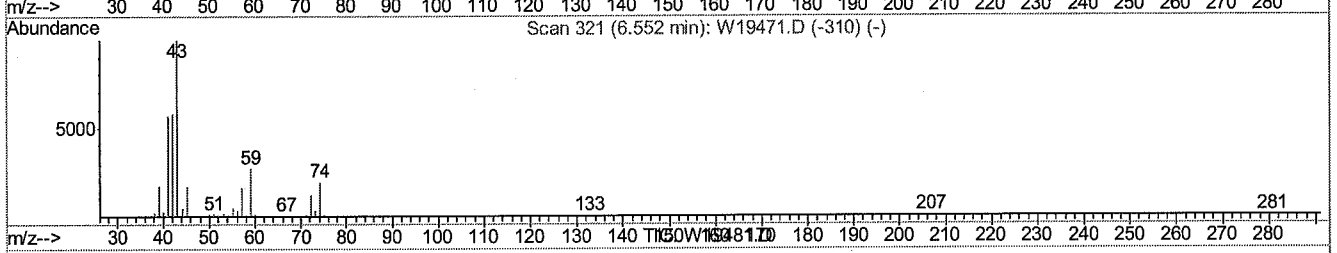
Data File : C:\MSDCHEM\1\DATA\W19481.D
Acq On : 31 Dec 2008 12:35 am
Sample : ICV830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 10:36 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.58min 10.72PPBV m

response 1864817

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

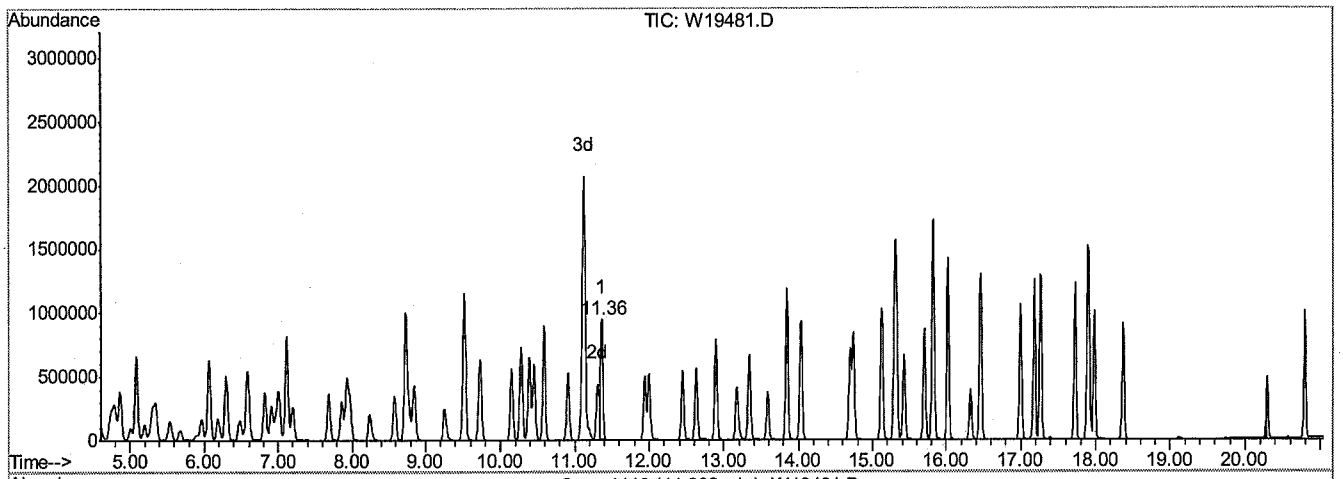
W19481.D MW830.M Wed Dec 31 10:36:16 2008 MSW

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\W19481.D
Acq On : 31 Dec 2008 12:35 am
Sample : ICV830-10
Misc : MS49009,VW830,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 31 10:36 2008

Vial: 3
Operator: BENR
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration



(54) TVHC as EQUIV HEPTANE (H)

11.36min 9.79PPBV m

response 2093111

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19481.D MW830.M Wed Dec 31 10:36:19 2008 MSW

6.7.21.2

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19563.D
Acq On : 6 Jan 2009 11:01 am
Sample : CC830-10
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:50:53 2009

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	8.69	128	95205	10.00	PPBV	-0.02
43) 1,4-DIFLUOROBENZENE	10.40	114	465040	10.00	PPBV	-0.02
60) CHLOROBENZENE-D5	14.66	117	399725	10.00	PPBV	-0.02
System Monitoring Compounds						
73) 4-BROMOFLUOROBENZENE	16.30	95	165177	5.65	PPBV	-0.01
Spiked Amount 5.000	Range 78 - 124		Recovery = 113.00%			
Target Compounds						Qvalue
3) FREON 152A	4.69	65	89667	8.09	PPBV #	73
4) CHLORODIFLUOROMETHANE	4.72	67	69683	12.02	PPBV	99
5) DICHLORODIFLUOROMETHANE	4.82	85	603950	10.97	PPBV	98
6) PROPYLENE	4.75	41	119106	7.21	PPBV	90
7) FREON 114	5.05	85	501032	9.53	PPBV	99
8) CHLOROMETHANE	4.97	52	38126	7.06	PPBV #	62
9) VINYL CHLORIDE	5.15	62	144827	7.47	PPBV	99
10) 1,3-BUTADIENE	5.27	54	109889	7.22	PPBV #	73
11) n-BUTANE	5.31	43	251241	7.41	PPBV	98
12) BROMOMETHANE	5.50	94	127449	8.31	PPBV	99
13) CHLOROETHANE	5.64	64	79185	7.59	PPBV	93
14) FREON 123	6.02	85	239912	9.00	PPBV #	98
15) TRICHLOROFLUOROMETHANE	6.26	101	726112	11.91	PPBV	100
16) ISOPROPYL ALCOHOL	6.33	45	267985	8.65	PPBV	92
17) ACETONE	6.12	58	62545	7.11	PPBV #	41
18) PENTANE	6.53	42	199243	8.19	PPBV	89
19) TVHC as EQUIV PENTANE	6.53	TIC	1361843m	9.46	PPBV	
20) ETHYL ETHER	6.55	74	77024	8.09	PPBV	90
21) 1,1-DICHLOROETHYLENE	6.78	96	158826	8.67	PPBV #	67
22) CARBON DISULFIDE	7.16	76	400496	7.71	PPBV	85
23) ETHANOL	5.75	45	48272	7.21	PPBV	97
24) BROMOETHENE	5.92	106	138175	8.74	PPBV #	96
25) METHYLENE CHLORIDE	6.87	84	125133	7.50	PPBV	85
26) 3-CHLOROPROPENE	6.97	76	62351	7.69	PPBV #	39
27) FREON 113	7.07	151	290778	9.00	PPBV	94
28) TRANS-1,2-DICHLOROETHYLENE	7.64	96	132191	8.03	PPBV #	79
29) TERTIARY BUTYL ALCOHOL	6.83	59	309401	10.58	PPBV	93
30) METHYL TERTIARY BUTYL ETHE	7.87	73	531940	9.43	PPBV	94
31) TETRAHYDROFURAN	9.19	42	168374	7.69	PPBV	94
32) HEXANE	8.70	57	263100	7.95	PPBV #	81
33) VINYL ACETATE	7.92	86	34665	8.74	PPBV #	35
34) 1,1-DICHLOROETHANE	7.82	63	342308	8.90	PPBV	99
35) METHYL ETHYL KETONE	8.16	72	59098	8.11	PPBV #	63
36) cis-1,2-DICHLOROETHYLENE	8.54	96	146676	8.34	PPBV #	80
37) ETHYL ACETATE	8.70	61	32321	7.38	PPBV #	26
38) CHLOROFORM	8.80	83	439525	10.34	PPBV	96
39) 2,4-DIMETHYLPENTANE	9.48	57	315307	8.11	PPBV	99
40) 1,1,1-TRICHLOROETHANE	9.69	97	562164	11.53	PPBV	98
41) CARBON TETRACHLORIDE	10.24	117	618447	11.99	PPBV	100
42) 1,2-DICHLOROETHANE	9.46	62	381856	11.58	PPBV	98
44) BENZENE	10.11	78	445130	8.43	PPBV	97

(#) = qualifier out of range (m) = manual integration
W19563.D MW830.M Wed Jan 07 10:03:42 2009 MSW

6.7.22
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19563.D
Acq On : 6 Jan 2009 11:01 am
Sample : CC830-10
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 07 08:50:53 2009

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Quant Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration
DataAcq Meth : TO15W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	CYCLOHEXANE	10.36	84	200777	8.38	PPBV		96
46)	2,3-DIMETHYLPENTANE	10.55	71	108049	8.18	PPBV		87
47)	TRICHLOROETHYLENE	11.08	95	244037	9.66	PPBV		94
48)	1,2-DICHLOROPROPANE	10.86	63	156435	7.74	PPBV	#	76
49)	BROMODICHLOROMETHANE	11.05	83	486537	10.63	PPBV		100
50)	2,2,4-TRIMETHYLPENTANE	11.08	57	877804	8.82	PPBV		98
51)	1,4-DIOXANE	11.11	88	67148	9.56	PPBV	#	1
52)	METHYL METHACRYLATE	11.24	69	146994	8.29	PPBV	#	78
53)	HEPTANE	11.31	43	348326	8.19	PPBV		93
54)	TVHC as EQUIV HEPTANE	11.31	TIC	1556356m	8.75	PPBV		
55)	METHYL ISOBUTYL KETONE	11.93	43	380255	9.32	PPBV		93
56)	cis-1,3-DICHLOROPROPENE	11.89	75	289019	9.28	PPBV	#	70
57)	TOLUENE	12.85	92	305634	8.61	PPBV		96
58)	trans-1,3-DICHLOROPROPENE	12.39	75	340181	10.07	PPBV		85
59)	1,1,2-TRICHLOROETHANE	12.58	83	142595	8.72	PPBV		100
61)	2-HEXANONE	13.11	43	353373	9.48	PPBV		88
62)	TETRACHLOROETHYLENE	14.00	164	216039	9.81	PPBV		94
63)	DIBROMOCHLOROMETHANE	13.29	129	409348	10.94	PPBV		100
64)	1,2-DIBROMOETHANE	13.54	107	278960	9.62	PPBV		98
65)	OCTANE	13.81	43	479562	8.56	PPBV		96
66)	CHLOROBENZENE	14.70	112	404367	9.04	PPBV		93
67)	ETHYLBENZENE	15.09	91	763387	9.23	PPBV		97
68)	m,p-XYLENE	15.28	106	541668	17.84	PPBV	#	84
69)	o-XYLENE	15.79	106	261893	8.98	PPBV	#	84
70)	STYRENE	15.67	104	386168	9.33	PPBV		91
71)	NONANE	16.00	43	473364	8.76	PPBV		95
72)	BROMOFORM	15.39	173	368288	11.23	PPBV		100
74)	1,1,2,2-TETRACHLOROETHANE	15.79	83	319308	8.76	PPBV		99
75)	ISOPROPYLBENZENE	16.43	105	808099	9.68	PPBV		95
76)	2-CHLOROTOLUENE	16.97	91	588537	9.90	PPBV		92
77)	4-ETHYLTOLUENE	17.16	105	775171	9.88	PPBV		97
78)	1,3,5-TRIMETHYLBENZENE	17.25	105	717420	10.02	PPBV		93
79)	1,2,4-TRIMETHYLBENZENE	17.71	105	676260	10.17	PPBV		95
80)	m-DICHLOROBENZENE	17.89	146	387751	9.96	PPBV		97
81)	BENZYL CHLORIDE	17.87	91	582008	11.57	PPBV		95
82)	p-DICHLOROBENZENE	17.96	146	357658	9.99	PPBV		97
83)	o-DICHLOROBENZENE	18.35	146	320746	10.08	PPBV		97
84)	HEXACHLOROBUTADIENE	20.79	225	188307	12.17	PPBV		100
85)	1,2,4-TRICHLOROBENZENE	20.28	180	134088	13.20	PPBV		99

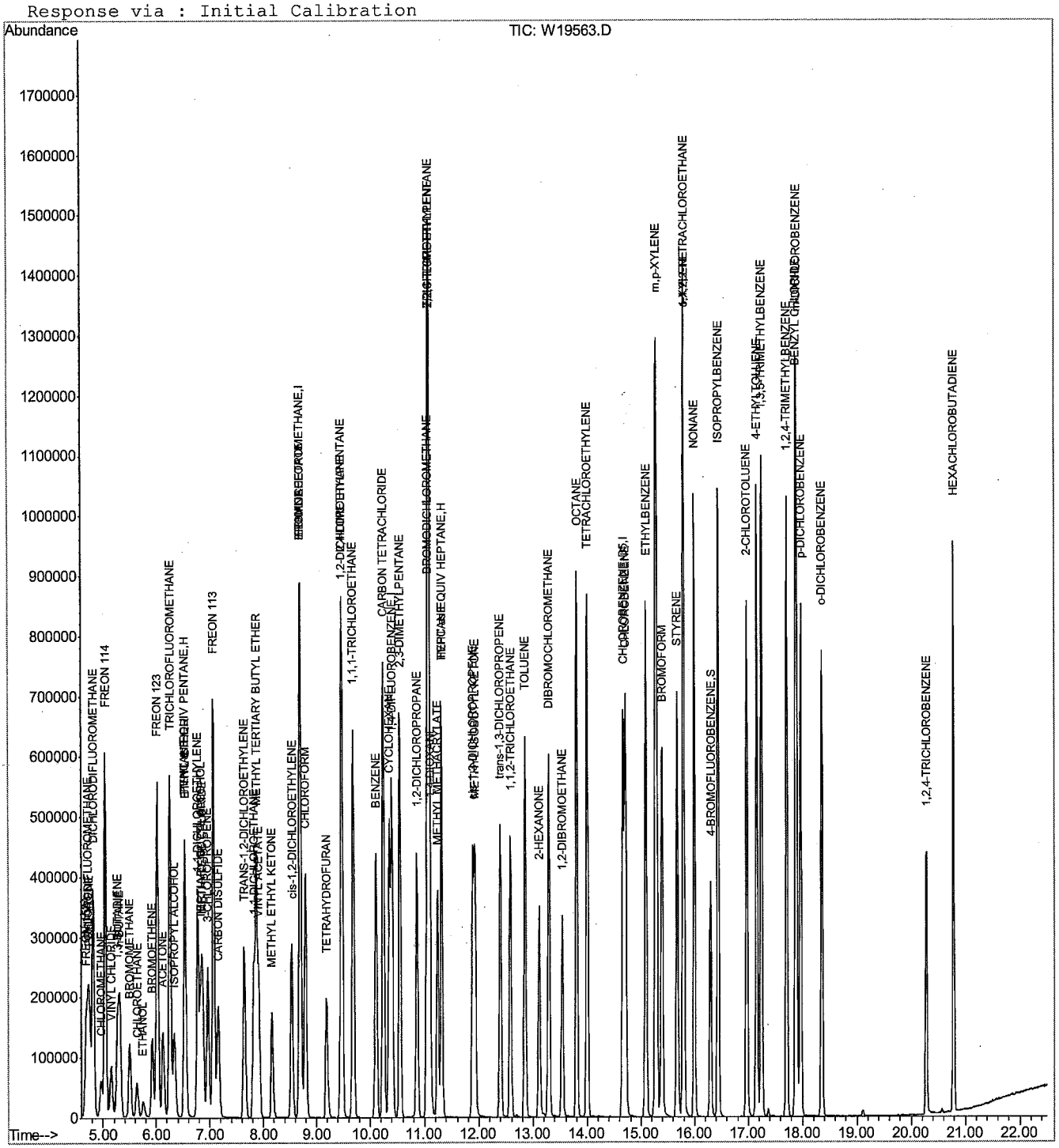
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\W19563.D
Acq On : 6 Jan 2009 11:01 am
Sample : CC830-10
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:38 2009

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: MW830.RES

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Initial Calibration



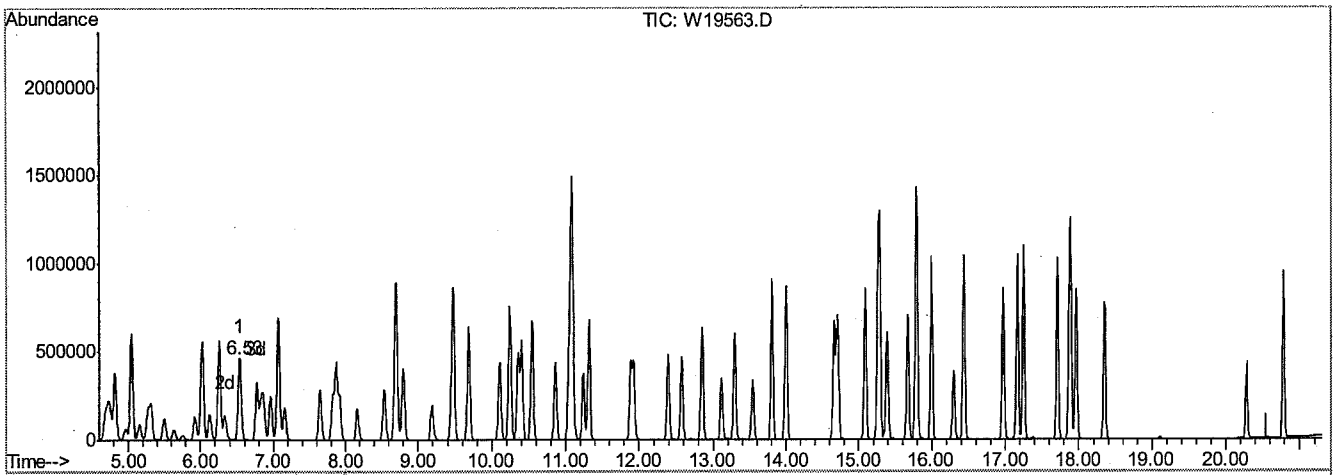
ACCUTEST Laboratories JA8427

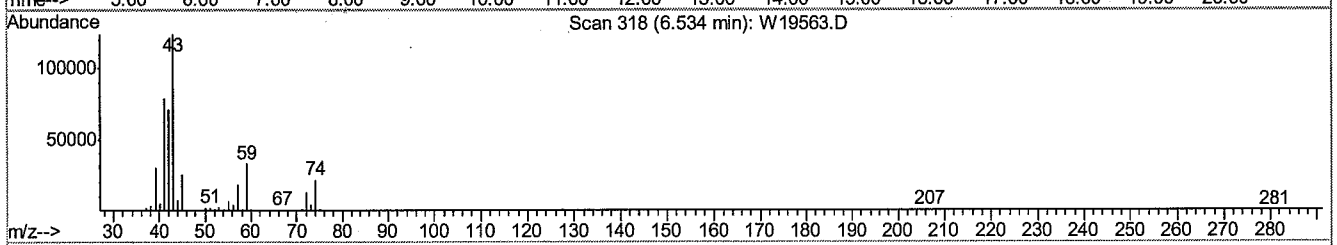
Quantitation Report (Qedit)

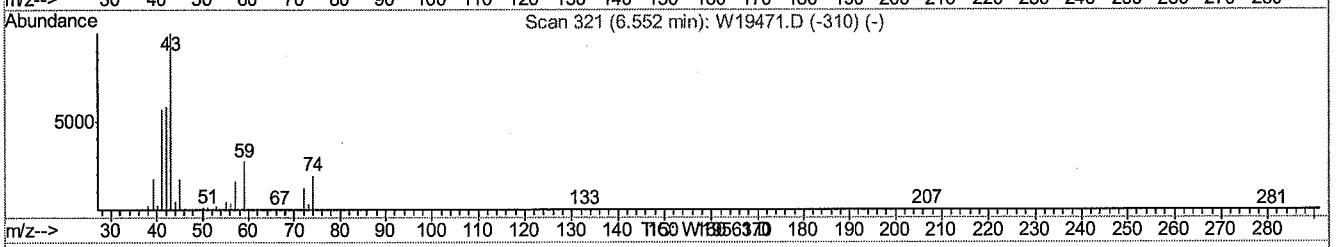
Data File : C:\MSDCHEM\1\DATA\W19563.D
Acq On : 6 Jan 2009 11:01 am
Sample : CC830-10
Misc : MS49009,VW834,,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:38 2009

Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration







(19) TVHC as EQUIV PENTANE (H)

6.53min 9.46PPBV m

response 1361843

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19563.D MW830.M Wed Jan 07 10:03:56 2009 MSW

6.7.22.1

6

Quantitation Report (Qedit)

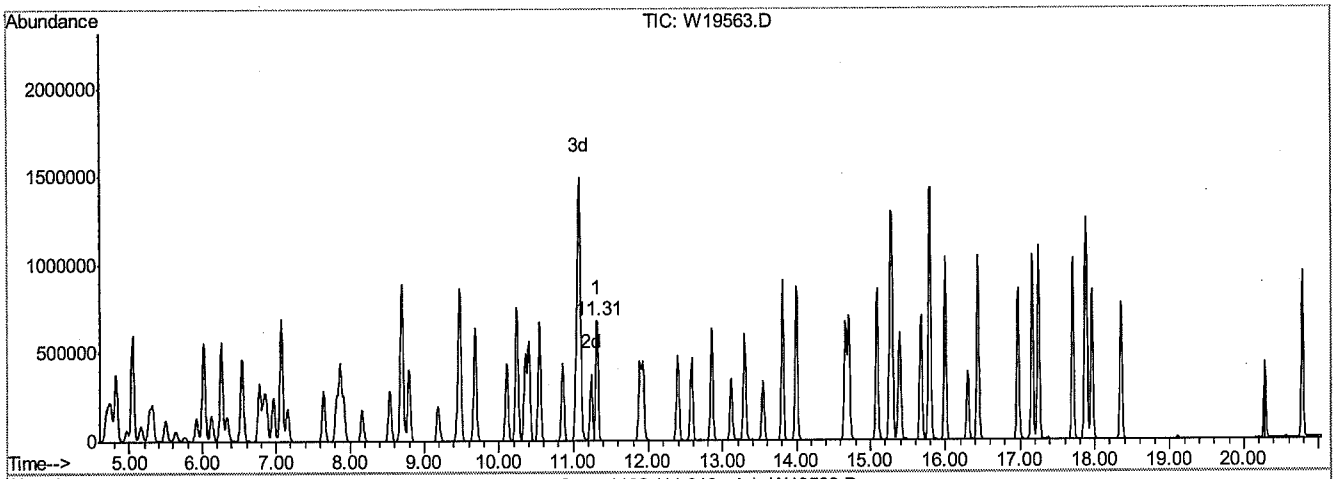
Data File : C:\MSDCHEM\1\DATA\W19563.D
Acq On : 6 Jan 2009 11:01 am
Sample : CC830-10
Misc : MS49009,VW834,,,,1
MS Integration Params: LSCINT.P
Quant Time: Jan 7 9:38 2009

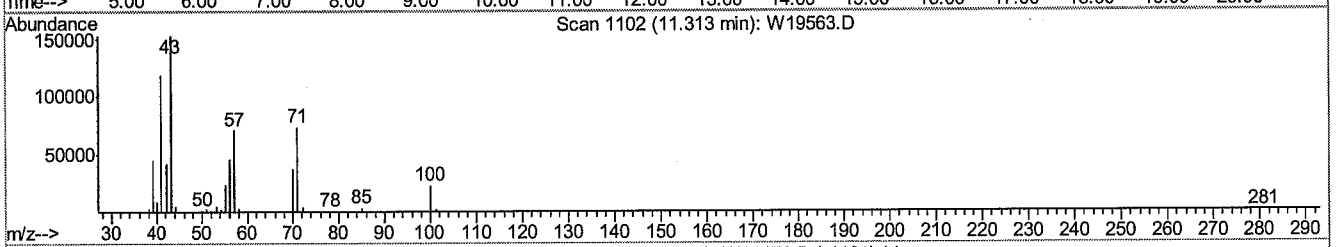
Vial: 2
Operator: YOUMINH
Inst : MSW
Multiplr: 1.00
Quant Results File: temp.res

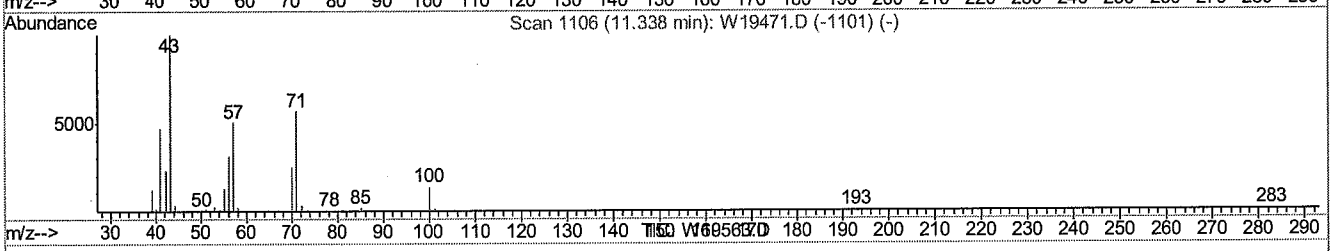
Method : C:\MSDCHEM\1\METHODS\MW830.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1 60 m X .25 mm ID 1.0 um
Last Update : Wed Dec 31 09:05:31 2008
Response via : Multiple Level Calibration

6.7.22.2

6







(54) TVHC as EQUIV HEPTANE (H)

11.31min 8.75PPBV m

response 1556356

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

W19563.D MW830.M Wed Jan 07 10:03:58 2009 MSW

ACCUTEST. Laboratories
JA8427

TO-14/TO-15

ACCUTEST

Batch ID: VW816

Date: 12/8/08

Analyst Signature: [signature]

Columns: RTX-1 60MX.32mmID

Method: TO15W.M

Seq. File: W120808.S

Initial Cal. Method: MW816.M

AS Data

Method:	TO15LOMPT

Standard Data

Lot #	Description	Conc.
AS 3609	Naphthalene	40ppbv
AS 3610	Naphthalene	0.8ppbv

Standard Data

Lot #	Description	Conc.
AS 3636	TO15 STD	40ppbv
AS 3637	TO15 STD	2.0ppbv
AS 3635	TO15 LCS	40ppbv
AS 3626	IS/SURR	40/20ppbv

6.8.1 6

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 12/9/08

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W19103	BFB		A634	100					on	
2	W19104	CCS05-10		A837	100					on	
3	W19105	BS		A670	100					NG-	
3	W19106	BS		A670	100					NG-	
3	W19107	BSD		A670	100					NG-	
3	W19108	5ppbLCS		A670	50					notused	
3	W19109	5ppbLCS		A670	50					notused	
5	W19110	BFB		A756	100					on	
2	W19111	IC816-5.0		A837	50					notused	
1	W19112	IC816-0.2		A262	40			✓	✓	on	
2	W19113	ICCS16-10		A837	~~100~~ 40			✓	✓	on	
1	W19114	IC816-1.0		A262	200			✓	✓	on	
2	W19115	IC816-20		A837	200			✓	✓	on	
2	W19116	IC816-5.0		A837	50			✓	✓	on	
1	W19117	IC816-0.5		A262	100			✓	✓	on	
6	W19118	Nap-10		A473	100			✓	✓	on	
2	W19119	IC816-40		A837	400			✓	✓	on	
7	W19120	Nap-0.2		A274	100			✓	✓	on	
3	W19121	BS		A670	100			✓	✓	notused	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

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Form: AT008-04
Rev. Date: 6/13/06

ACCUTEST

Date: 12/9/08

Analyst Signature: [signature]

Columns: RTX-160MX.32mmID

Method: T015W.M

Seq. File: W120908.S

Initial Cal. Method: MW816.M

AS Data

Method: T015W.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 3636	T015STD	40ppbv
AS 3635	T015LCS	40ppbv
AS 3626	IS/surr	40/20ppbv

6.8.2 6

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 12/10/08

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W19122	BFB		A756	100					OK	
2	W19123	CC816-10		A837	100					not used	
2	W19124	CC816-10		A837	100			✓	✓	OK	
3	W19125	BS		A670	100			✓	✓	OK	
3	W19126	BSD		A670	100			✓	✓	OK	
5	W19127	MB		A756	400			✓	✓	OK	
6	W19128	JA6995-1	SL	A725	50	1		✓	✓	OK	
7	W19129	JA6995-2	↓	A730	50	1		✓	✓	OK	
8	W19130	SCC		A112	400	1		✓	✓	OK	
9	W19131	JA6995-3	SL	A793	50	1		✓	✓	OK	
10	W19132	JA6995-4		A583	50	1		✓	✓	OK	
10	W19133	JA6995-4Dup		A583	50	1		✓	✓	OK	
11	W19134	JA6995-5		A702	50	1		✓	✓	OK	
12	W19135	JA6995-6		A491	50	1		✓	✓	OK	
13	W19136	JA6995-7		A675	50	1		✓	✓	OK	
14	W19137	JA6995-8		A431	50	1		✓	✓	OK	
15	W19138	JA6995-9		A409	50	1		✓	✓	OK	
16	W19139	JA6995-10		A401	50	1		✓	✓	OK	
1	W19140	JA6995-11		A796	50	1		✓	✓	OK	
3	W19141	JA6995-12		A554	50	1		✓	✓	OK	
4	W19142	JA6995-13		A679	50	1		✓	✓	OK	
6	W19143	JA6995-14		A429	50	1		✓	✓	OK	
7	W19144	JA6995-15		A571	50	1		✓	✓	OK	
8	W19145	JA6995-16	↓	A614	50	1				RR	wrong sample taken
5	W19146	SCC		A455	400	1				RR	out of 24-hr BFB

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

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Form: AT008-04
Rev. Date: 6/13/06

ACCUTEST

TO-14/TO-15

Batch ID: VW818

Date: 12/10/08

Analyst Signature: [illegible]

Columns: RTX-1 60MX.32mmID

Method: TO15W.M

Seq. File: W121008.S

Initial Cal. Method: MW816.M

AS Data

Method: TO15W.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS3636	TO15STD	40ppbv
AS3635	TO15LCS	40ppbv
AS3626	IS/SURR	40/20ppbv

6.8.3

9

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 12/11/08

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W19147	BFB		A756	100					OK	
2	W19148	CC816-5		A837	50					notused	
2	W19149	CC816-5		A837	50			✓	✓	OK	
3	W19150	BS		A670	100			✓	✓	OK	
3	W19151	BSD		A670	100			✓	✓	OK	
5	W19152	MB		A756	400			✓	✓	OK	
6	W19153	JA6995-16	SL	A614	50	1		✓	✓	OK	
7	W19154	SCC		A455	400	1		✓	✓	OK	
8	W19155	JA6246-1	STD	A689	50	1		✓	✓	OK	
9	W19156	JA6246-2	↓	A797	50	1		✓	✓	OK	
10	W19157	JA6764-1	STD	A650, A555	100	56		✓	✓	OK/DL	RR 1000X
11	W19158	JA6425-1	STD	A425, A494	40	226		✓	✓	OK	
11	W19159	JA6425-10up	↓	A425, A445	40	226		✓	✓	OK	
12	W19160	JA6463-1	SL2	A672	400	1		✓	✓	OK	
13	W19161	JA6464-1	SL2	A765	400	1		✓	✓	OK	
14	W19162	JA6806-1	STD	A718	50	1		✓	✓	OK	
15	W19163	JA6806-2	↓	A701	50	1		✓	✓	OK	
16	W19164	JA6573-1	STD	A438, A412	200	56		✓	✓	OK	
16	W19165	JA6573-1	↓	A438, A412	40	56		✓	✓	OK	
1	W19166	JA6573-2	↓	A608	50	1		✓	✓	OK	
3	W19167	JA7496-1	STD	Airbag, A606	200	25		✓	✓	OK/DL	RR 25200X
4	W19168	JA7496-2	↓	Airbag, A594	200	25		✓	✓	OK/DL	RR 200X
6	W19169	JA7496-3	↓	Airbag, A398	200	25		✓	✓	OK/DL	RR 200X
7	W19170	JA7496-4	↓	Airbag, A504	200	25		✓	✓	OK/DL	RR 40ml
8	W19171	JA6908-1	SL	A327	400	1		✓	✓	OK	
9	W19172	JA6908-2	↓	A658	400	1		✓	✓	OK	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

5	W19173	SCC	A505	400	1		✓	✓	OK	

Form: AT008-04
Rev. Date: 6/13/06

ACCUTEST Laboratories

Canister Secondary Dilution Log

			Original Canister Dilution				Secondary Canister Dilution						
Date	Initials	Accutest Sample ID	Canister ID	Vacuum in "Hg at time of Dilution	Final Pressure psig	Dilution Factor	Canister ID	Canister Volume CC	Sample Volume Added CC	Final Pressure psig	Equiv Total Volume CC	Dilution Factor	Final Canister Dilution Factor
12/10/08	YH	JA6764-1	A650	-1.0	1.2	1.12	A555	A1000	40	14.7	2000	50	56
12/10/08	YH	JA6425-1	A425	-1.5	1.1	1.13	A494	1000	10	14.7	2000	200	226
12/10/08	YH	JA6573-1	A438	-1.0	1.2	1.12	A412	1000	40	14.7	2000	50	56
12/10/08	YH	JA7496-1	Airbag	0	0	1	A606	1000	80	14.7	2000	25	25
12/10/08	YH	JA7496-2	Airbag	0	0	1	A594	1000	80	14.7	2000	25	25
12/10/08	YH	JA7496-3	Airbag	0	0	1	A398	1000	80	14.7	2000	25	25
12/10/08	YH	JA7496-4	Airbag	0	0	1	A504	1000	80	14.7	2000	25	25

Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

Form: AT003-03
Rev. Date: 6/13/06

ACCUTEST

TO-14/TO-15

Batch ID: VW830

Date: 12/30/08

Analyst Signature: [illegible]

Columns: RTX-1 60M X .32mm ID

Method: TO15W.M

Seq. File: W123008.S

Initial Cal. Method: MW820.M

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.
AS3665	Naphthalene	40ppbv
AS3666	Naphthalene	0.8ppbv

Standard Data

Lot #	Description	Conc.
AS3668	TO15 STD	40ppbv
AS3669	TO15 STD	2.0ppbv
AS3667	TO15LCS	40ppbv
AS3626	IS/surr	40/20ppbv

6.8.4 6

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 12/31/08

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W19466	BFB		A756	100					ok	
2	W19467	CC826-10		A837	100					Nb	
5	W19468	BFB		A756	100					ok	
2	W19469	CC826-10		A837	100					Nb	
5	W19470	BFB		A756	100					ok	
2	W19471	ICC830-10		A663	100			✓	✓	ok	
1	W19472	IC830-1.0		A866	200			✓	✓	ok	
2	W19473	IC830-5.0		A663	50			✓	✓	not used	
1	W19474	IC830-0.2		A866	40			✓	✓	ok	
2	W19475	IC830-20		A663	200			✓	✓	ok	
2	W19476	IC830-5.0		A663	50			✓	✓	ok	
1	W19477	IC830-0.5		A866	100			✓	✓	ok	
6	W19478	Nap-10		A636	100			✓	✓	ok	
2	W19479	IC830-40		A663	400			✓	✓	ok	
7	W19480	Nap-0.2		A286	100			✓	✓	ok	
3	W19481	BS		A752	100			✓	✓	ok	
					YH						

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; #2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

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Form: AT008-04
Rev. Date: 6/13/06

ACCUTEST

TO-14/TO-15

Batch ID: VW834

Date: 1/6/09

Analyst Signature: [illegible]

Columns: RTX-1 60MX.32mmID

Method: TO15W.M

Seq. File: W010609.S

Initial Cal. Method: MW830.M

AS Data

Method: TO15.MPT

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS 3668	TO15STD	40ppbv
AS 3667	TO15LCS	40ppbv
AS 3677	IS/Surr	40/20ppbv
AS 3665	Naphthalene	40ppbv

6.8.5 9

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 1/7/09

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	W19561	BFB		A756	100					OK	Ave16.282:16.306
2	W19562	CC 830-10		A663	100					notused	
2	W19563	CC830-10		A663	100			/	/	OK	
3	W19564	BS		A752	100			/	/	OK	
3	W19565	BSD		A752	100			/	/	OK	
6	W19566	Nap-10		A636	100			/	/	OK	
5	W19567	MB		A756	400			/	/	OK	
6	W19568	JA8753-3	STD,Nap	A854	50	1		/	/	OK	
7	W19569	JA8753-6	↓	A329	50	1		/	/	OK	
8	W19570	JA8427-1	SLT	A435	50	1		/	/	OK	
9	W19571	JA8427-2	↓	A584	50	1		/	/	OK	
10	W19572	JA8551-6	PAVE	A338,A531	100	240		/	/	OK/DL	RR 5000X
10	W19573	JA8551-6DUP	↓	A338,A531	100	240		/	/	OK	
11	W19574	JA8551-9	↓	A364	400	1		/	/	OK	
12	W19575	JA8551-10	↓	A740	400	1		/	/	OK	
13	W19576	JA8551-7	↓	A118,A703	100	320		/	/	OK/DL	RR5000X
14	W19577	SCC		A411	400	1		/	/	OK	
15	W19578	JA9025-6	STD	A311	400	1		/	/	OK	
16	W19579	JA9025-7	↓	A736	400	1		/	/	OK	
1	W19580	JA9025-8	↓	A179	400	1		/	/	OK	
3	W19581	JA9025-9	↓	A360	400	1		/	/	OK	
4	W19582	JA9025-11	↓	A662	400	1		/	/	OK	
6	W19583	JA9025-12	↓	A629	400	1		/	/	OK	
7	W19584	JA9025-13	↓	A349	400	1		/	/	OK	
8	W19585	JA9025-14	↓	A757	400	1		/	/	OK	
5	W19586	SCC		A171	400	1		/	/	OK	

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error, # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

Form: AT008-04
Rev. Date: 6/13/06

APPENDIX D

MWH Americas, Inc.
El Dorado Refinery
Analytical Report SDG No. JA8427

Data Usability Summary

Data Usability Summary

Lori Burris-Glasgow (Four Star Environmental, Inc.) reviewed one data package from Accutest Laboratories for the analysis of soil vapor samples collected December 18, 2008 near the El Dorado Refinery Site in El Dorado, Kansas. Data were reviewed for conformance to the requirements of the El Dorado Refinery Site Quality Assurance Project Plan (QAPP), Revision 2, September 2006.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the soil vapor at the affected property. These data are used to determine if COCs are present and to characterize any COCs that are reported.

Analyses requested included:

- EPA TO-15 - Volatile Organic Compounds (VOCs) in air collected in specially-prepared canisters and analyzed by gas chromatography/mass spectrometry (GC/MS).

Data were reviewed and validated as described in the El Dorado Refinery Site Quality Assurance Project Plan (QAPP), Revision 2, September 2006 and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittals were examined:

- the reportable data,
- the quality control forms, and
- the laboratory case narratives.

The results of supporting quality control (QC) analyses were summarized on the laboratory case narratives in the analytical reports which were included in this review.

The reportable data, QC forms and case narratives included in this review were provided by the laboratory on compact disc (CD).

Introduction

One (1) soil vapor sample and one (1) duplicate soil vapor sample were analyzed for VOCs. Table 1 lists the sample identifications cross-referenced to laboratory identifications.

Data Review/Validation Results

Analytical Results

The data package contains a minimum of one quality control batch per analytical method utilized. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Non-detected results are reported as less than the value of the reporting limit (RL). Qualified sample data is included in Table 2.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (C-O-C). Samples were received in the appropriate containers and in good condition with the paperwork filled out properly. The C-O-C stated that sample VP-01 canister was received at -22"of mercury instead of the method standard -28 to -30" of mercury. This canister may have accepted sample from the ambient air during shipment and may not accurately represent VOCs in soil vapor at the affected property. Therefore, detections of VOCs (acetone, toluene and naphthalene) in sample VP-01 were qualified as estimated (J).

Calibrations

Calibrations were within range for VOCs. Because naphthalene is not a compound listed in Method TO-15, the laboratory did not have a method detection limit (MDL) study or a calibration curve. Naphthalene was analyzed by this method based on a single point calibration, similar to a tentatively identified compound (TIC).

Blanks

VOCs were reported as not-detected in the method blanks.

Internal Standard and Surrogate Recoveries

VOC surrogate recoveries were within laboratory acceptance limits. Internal standards were within method acceptance limits for Method TO-15.

Laboratory Control Samples (Matrix Spike Blanks)

Laboratory control samples (LCS) met the laboratory QC acceptance criteria for VOCs. According to the laboratory, naphthalene was not spiked into the LCS, due to the instability of naphthalene in air.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) are not analyzed as part of Method TO-15.

Tentatively Identified Compounds

The laboratory analyzed Method TO-15 for TICs. Samples VP-01 and VP-100 each had one unknown compound reported.

Laboratory Duplicates

The laboratory analyzed a duplicate on a sample not associated with the project site. The sample was within laboratory acceptance criteria for duplicate analysis.

Field Precision

One (1) field duplicate sample was submitted to the laboratory and analyzed for VOCs (VP-01/VP-100). Both sample and duplicate were reported as detected for acetone and sample VP-01 was also reported as detected for naphthalene and toluene. The relative percent difference (RPD) was greater than 25% for acetone, naphthalene and toluene. Detections of these compounds were qualified as estimated (J), due to sample/duplicate precision outside acceptance criteria. Sample/duplicate precision calculations are included in Table 3.

Summary

The soil vapor analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the affected property.

The data user is advised that detections of VOCs (acetone, toluene and naphthalene) in sample VP-01 were qualified as estimated (J), due to initial canister pressure outside the acceptable range. Sample VP-01 was qualified as estimated (J) for acetone, toluene and naphthalene and sample VP-100 was qualified as estimated (J) for acetone, due to sample/duplicate precision outside acceptance criteria.

References:

El Dorado Refinery Site, El Dorado, Kansas, Quality Assurance Project Plan, Revision 2, September 2006.

Table 1
Cross-Reference between Laboratory Identifications and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
JA8427-1	VP-01	Soil Vapor
JA-8427-2	VP-100	Soil Vapor

Table 2
Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
VP-01	Acetone Naphthalene Toluene	J	Initial canister pressure outside acceptance criteria.
VP-01	Acetone Naphthalene Toluene	J	Sample/duplicate precision outside acceptance criteria.
VP-100	Acetone	J	Sample/duplicate precision outside acceptance criteria.

J – The analyte was positively identified, the quantitation is an estimation.

Table 3
Field Precision

Field Identification	Analyte	Sample Result (ppbv)	Duplicate Result (ppbv)	RPD[a]	Qualified
VP-01/VP-100	Acetone	22.3	14.8	40	X
	Naphthalene	2.7 E	1.6 U	51	X
	Toluene	3.9	0.16 U	184	X

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data
X – Sample/duplicate precision outside acceptance criteria of 25% RPD.