2655 Park Center Drive, Suite A Simi Valley, California 93065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC.
An Employee - Owned Company

November 13, 2007

Mr. Anand Helekar
TRC
21 Technology Drive
Irvine, CA 92618

RE: P2702919
WDI

Dear Mr. Helekar:

Enclosed are the results of the sample(s) submitted to our laboratory on September 19, 2007. For your reference, these analyses have been assigned our service request number P2702919.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 106 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Kate Aguilera
Project Manager

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Columbia Analytical Services INC.
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LABORATORY REPORT

Client:	TRC	Date of Report:	11/13/07
Address:	21 Technology Drive	Date Received:	09/19/07
	Irvine, CA 92618	CAS Project No:	P2702919
Contact:	Mr. Anand Helekar	Purchase Order:	IRV-804334

Client Project ID: WDI

Seven (7) Stainless Steel Summa Canisters labeled:

"WDI-IBM-03B-9-16-07" "WDI-IBM-49-9-16-07" "WDI-IBM-49-9-16-07-SC"
"WDI-IBM-41-9-16-07" "WDI-IBM-28-9-16-07" "WDI-IBM-22-9-18-07"
"WDI-IBM-44-9-16-07"

The samples were received at the laboratory under chain of custody on September 19, 2007. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Methane and Total Gaseous Non-Methane Organics as Methane Analysis

The samples were analyzed for methane and total gaseous non-methane organics according to modified EPA Method 25C. The analyses included a single sample injection (method modification) analyzed by gas chromatography using flame ionization detection/total combustion analysis.

Reviewed and Approved:

Wade Henton
GC-VOA Team Leader
Air Quality Laboratory

Reviewed and Approved:

Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

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CAS Project No: P2702919

Volatile Organic Compound Analysis

The samples were also analyzed by combined gas chromatography/mass spectrometry (GC/MS) in scan mode for volatile organic compounds and in SIM mode for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. However, the method was modified to include pressurization with Helium. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical systems used were comprised of an Agilent Model 5973inert GC/MS/DS and an Agilent Model 5973N GC/MS/DS each interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The percent difference CCV report includes both positive and negative percent difference calculations, where positive percent differences correspond to biased low results and negative percent differences to biased high results.

On September 28, 2007 and October 1, 2007, acetone was biased high on the CRQL on the instrument labeled MS9.

The dilution for acetone for the sample labeled "WDI-IBM-44-9-16-07" was analyzed outside of the client's specified hold time on the instrument labeled MS9.

The results of analyses are given in the attached data package. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-001

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01243

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.6 Pf 1 = 3.5
Pi 2 = -1.8 Pf 2 = 3.5 D.F. = 2.12

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.2**	1.1	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	2.1	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

02919SVG.SC1 -Sample

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-002

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01070

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -2.3 Pf 1 = 3.5
D.F. = 1.47

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.9**	0.74	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.5	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

02919SVG.SC1 -Sample (2)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07-SC**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-003

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01128

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.8 Pf 1 = 3.7
D.F. = 1.69

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.9**	0.85	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.7	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-004

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00985

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -4.7 Pf 1 = 3.5
D.F. = 1.82

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.9**	0.91	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.8	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -3.4 Pf 1 = 3.6
D.F. = 1.62

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.0**	0.81	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.6	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = 0.3 Pf 1 = 3.9
D.F. = 1.24

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.9**	0.62	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.6**	1.2	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006DUP

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = 0.3 Pf 1 = 3.9
D.F. = 1.24

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**1.9**	0.62	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**5.3**	1.2	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rec Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-44-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-007

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00998

Date Collected: 9/16/07
Date Received: 9/19/07
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

Pi 1 = -5.8 Pf 1 = 3.5
D.F. = 2.04

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	**2.0**	1.0	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	**3.0**	2.0	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070925-MB

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/25/07
Volume(s) Analyzed: 0.50 ml

D.F. = 1.00

CAS #	Compound	Result ppmV	MRL ppmV	Data Qualifier
74-82-8	Methane	ND	0.50	
	Total Gaseous Nonmethane Organics (TGNMO) as Methane	ND	1.0	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Lab Control Sample**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070925-LCS

Laboratory Control Sample Summary

Test Code: EPA Method 25C Modified
Instrument ID: HP5890II/GC1/FID/TCA
Analyst: Wade Henton
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/25/07
Volume(s) Analyzed: NA

Compound	Spike Amount LCS ppmV	Result LCS ppmV	**% Recovery LCS**	Acceptance Limits	Data Qualifier
Methane	57.5	55.7	97	90-110	
Total Gaseous Nonmethane Organics (TGNMO) as Methane	345	318	92	90-110	

Verified By: RG Date: 10/4/07

Response Factor Report GC 01

Method : J:\GC01\METHODS\M102006.M (Chemstation Integrator)
Title : EPA 25C TCA/FID Analysis for TGNMO
Last Update : Mon Oct 23 16:38:21 2006
Response via : Initial Calibration

Calibration Files
1 =10200606.D 2 =10200607.D 3 =10200608.D
4 =10200609.D 5 =10200610.D 6 =10200611.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	Carbon Monoxide	5.184	5.715	5.812	6.058	6.017	6.064	5.808	E3	5
2)	Methane	6.638	6.124	6.356	6.256	6.204	6.190	6.295	E3	2
3)	Carbon Dioxide	5.461	7.056	6.139	6.279	6.073	6.194	6.200	E3	8
4)	TGNMO-1	6.773	6.683	5.923	6.159	6.535	6.429	6.417	E3	5
5)	TGMNO-2	6.773	6.683	5.923	6.159	6.535	6.429	6.417	E3	5

10/23/06

#) = Out of Range

Compound # 2: Methane (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.550	3651			
2	4.034	24705			
3	11.006	69950			
4	80.680	504760			
5	2751.710	17070304			
6	20170.000	124856770			

	Integration Parameter File	Sum?
Tgt		
		☐
		☐
		☐

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Compound #4: TGHM0-1 (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.819	5547			
2	6.000	40100			
3	16.371	96972			
4	120.000	739089			
5	4072.300	26614390			
6	29850.000	191892442			

	Integration Parameter File	Sum?
Tgt		
		☐
		☐
		☐

Prev | Next | Plot | Page 1 | Page 2 | OK | Cancel | Help

Compound #5: TG4H0-2 (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
1	0.819	5547			
2	6.000	40100			
3	16.371	96872			
4	120.000	739089			
5	4072.300	26614390			
6	29850.000	191892442			

	Integration Parameter File	Sum?
Igt		
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		☐
		☐

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Modified EPA Method 25C Daily QC Summary

Job# : TRC P2702919
Analyst : WHH
Method Name : EPA 25C TCA/FID Analysis for TGNMO

Instrument : GC01/TCD1
Date Analyzed : 9/25/07
Printed : 9/25/07

RT Summaries and QC Check (minutes)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide	TGNMO-1	TGMNO-2		File ID	Time
ICAL Mean RT	**1.366**	**1.799**	**3.038**	**4.833**				
RT Windows (+/- min)	**0.030**	**0.031**	**0.038**	**0.030**				
STD 100/80ppm S14-08060703	1.390	1.811	3.026	4.849			09250701.D	08:59
+/- 0.33min of ICAL Mean RT	Pass	Pass	Pass	Pass				
MB			3.034 Pass	N/A	N/A		09250702.D	09:23
Lab Air	1.401 Pass	1.806 Pass	3.029 Pass	N/A	N/A		09250703.D	09:35
LCS 345ppm S14-04050602	1.395 Pass	1.819 Pass	3.045 Pass	N/A	N/A		09250704.D	10:38
2919-002 v	1.251 Fail	1.821 Pass	Vent	N/A	N/A		09250706.D	12:28
2919-003 v	1.254 Fail	1.814 Pass	Vent	N/A	N/A		09250707.D	12:41
2919-004 v	1.262 Fail	1.813 Pass	Vent	N/A	N/A		09250708.D	13:00
2919-001 v	1.259 Fail	1.814 Pass	Vent	N/A	N/A		09250709.D	13:13
2919-005 v	1.242 Fail	1.809 Pass	Vent	N/A	N/A		09250710.D	13:37
2919-006 v	1.249 Fail	1.805 Pass	Vent	N/A	N/A		09250711.D	14:18
2919-006dup v	1.236 Fail	1.815 Pass	Vent	N/A	N/A		09250712.D	14:30
2919-007 v	1.257 Fail	1.823 Pass	Vent	N/A	N/A		09250713.D	14:43
STD 100/80ppm S14-08060703	1.393 Pass	1.819 Pass	3.045 Pass	N/A	N/A		09250714.D	14:56

vv = Vent CO_2 / CH_4 v = Vent CO_2 N/A : Not Applicable

Continuing Calibration Standards Summary (ppm)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
ACTUAL	100.1	80.1	100.7			101.2		
CCV Criteria (+/- %D)	**10.0%**	**10.0%**	**10.0%**			**10.0%**		
STD 100/80ppm S14-08060703	98.8 Pass	79.4 Pass	94.8 Pass			109.9 Pass	09250701.D	08:59
STD 100/80ppm S14-08060703	91.1 Pass	73.7 Pass	87.2 Fail			101.6 Pass	09250714.D	14:56

LCS / LCS Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
LCS Actual Conc. (ppm)	57.9	57.5	57.9			345.0		
LCS Criteria (% Range)	**86% -122%**	**81% - 118%**	**81% - 124%**			**81% - 116%**		
LCS 345ppm S14-04050602	57.8	55.7	55.0			317.6	09250704.D	10:38
LCS % Recovery	100%	97%	95%			92%		
	Pass	Pass	Pass			Pass		

Lab Dup Summary (ppm, without DF correction)

Sample ID	Carbon Monoxide	Methane	Carbon Dioxide			TGMNO	File ID	Time
2919-006 v	1.4	1.6	Vent			4.6	09250711.D	14:18
2919-006dup v	1.1	1.5	Vent			4.2	09250712.D	14:30
Duplicate % RPD	22.5%	1.6%				7.3%		
Duplicate Criteria % RPD	**20%**	**26%**	**15%**			**16%**		
	Fail	Pass				Pass		

Injection Log

Directory: j:\gc01\data\25c\2006_10\20

ıe	Vial	FileName	Multiplier		SampleName	Misc Info	Injected
	1	10200601.d	1.		STD 100/80ppmS14-10110605		20 Oct 106 12::4
	1	10200602.d	1.		MB		20 Oct 106 12::5
	1	10200603.d	1.		Lab Air		20 Oct 106 12::0
	1	10200604.d	1.		LCS 345ppm		20 Oct 106 12::2
	1	10200605.d	1.		test low		20 Oct 106 13::5
	1	10200606.d	1.		STD 25C low level small loop	S14-10110606	20 Oct 106 13::0
	1	10200607.d	1.		STD 25C low level normal loop	S14-10110606	20 Oct 106 13::3
	1	10200608.d	1.		STD 25C mid level small loop	S14-10110605	20 Oct 106 12::0
	1	10200609.d	1.		STD 25C mid level normal loop	S14-10110605	20 Oct 106 12::2
	1	10200610.d	1.		STD 25C high level small loop	S14-10200601	20 Oct 106 12::1
	1	10200611.d	1.		STD 25C high level normal loop	S14-10200601	20 Oct 106 12::3
	1	10200612.d	1.		ICV S14-03270602		20 Oct 106 12::5
	1	10200613.d	1.		ICV S14-03270602	aprox 100/80ppm	20 Oct 106 12::2
	1	10200614.d	1.	X	MB electrical noise		20 Oct 106 12::3
	1	10200615.d	1.		MB good		20 Oct 106 12::0
	1	10200616.d	1.		MB		20 Oct 106 12::2

[illegible] 10/23/06

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COLUMBIA ANALYTICAL SERVICES
SAMPLE RUN LOG
ID: HP 5890 SERIES II / GC1

DATE: 9 / 25 / 2007 *DATA SYSTEM*: HP Chemstation *ANALYSIS*: ___25C ✓ 25C(MOD.) ___3C ___3C(MOD.)

INJECTOR: PACKED COLUMN
VALVE SYSTEM:
3C ___ REGULAR LOOP (100µL) ___ OTHER _____
25C ___ REGULAR LOOP (500µL) ___ SMALL LOOP (7.33:1)

COLUMN ID's:
___8' X 1/8" CARBOSPHERE
___4' X 1/8" TENAX / HAYSEP Q / CARBOSPHERE

TEMPERATURE PROGRAMMING:
INITIAL AT 50 °C FOR 2 min
RAMP RATE 30 °C/min TO 200 °C HOLD FOR 1 min

CARRIER GAS: He 25.1 mL/min

DETECTOR INFO: HP TCD #1: 260 °C SENSITIVITY: INITIAL HIGH, 1.5 min LOW
HP FID #1: 280 °C POLARITY: INITIAL NEGATIVE, 1.5 min POSITIVE

DATA PATHWAY: J:\GC1\DATA25C\2007-09\25\ **METHOD FILE NAME: J:\GC1\METHODS**_____**.M**

	DATA FILE HEADER INFO	CLIENT	ANALYST
01	STD 100/80 ppm 514-08060702		ZW
02	MB		
03	Lab Air		
04	LCS · 345 ppm 514-04050602		
05	matt		
06	2919-002 ✓		
07	-003		
08	-004		
09	-001		
10	-005		
11	-006		
12	-006 dup		
13	-007		
14	std 100/80 ppm		
15	2920-001 ✓		
16	-002		
17	-003		
18	-004		
19	-005		
20	-006		

	DATA FILE HEADER INFO	CLIENT	ANALYST
21	2920-007 ✓		ZW
22	-008		
23	-009		
24	std 100/80 ppm		✓
25			
26			
27			
28		ZW	
29			
30		10/9/07	
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01243

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5
Pi 2 = -1.8 Pf 2 = 3.5 Can D.F. = 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	2.1	ND	1.0	
75-01-4	Vinyl Chloride	ND	2.1	ND	0.83	
74-83-9	Bromomethane	ND	2.1	ND	0.55	
75-00-3	Chloroethane	ND	2.1	ND	0.80	
67-64-1	Acetone	**160**	11	**65**	4.5	**M**
75-69-4	Trichlorofluoromethane	ND	2.1	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	2.1	ND	0.53	
75-09-2	Methylene chloride	**3.0**	2.1	**0.85**	0.61	
76-13-1	Trichlorotrifluoroethane	ND	2.1	ND	0.28	
75-15-0	Carbon Disulfide	ND	2.1	ND	0.68	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	ND	0.53	
75-34-3	1,1-Dichloroethane	ND	2.1	ND	0.52	
1634-04-4	Methyl tert-Butyl Ether	ND	2.1	ND	0.59	
108-05-4	Vinyl Acetate	ND	11	ND	3.0	
78-93-3	2-Butanone (MEK)	**17**	2.1	**5.7**	0.72	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	ND	0.53	
67-66-3	Chloroform	ND	2.1	ND	0.43	
107-06-2	1,2-Dichloroethane	**4.6**	2.1	**1.1**	0.52	
71-55-6	1,1,1-Trichloroethane	ND	2.1	ND	0.39	
71-43-2	Benzene	**3.1**	2.1	**0.97**	0.66	
56-23-5	Carbon Tetrachloride	ND	2.1	ND	0.34	
78-87-5	1,2-Dichloropropane	ND	2.1	ND	0.46	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rev Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-001

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01243

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5
Pi 2 = -1.8 Pf 2 = 3.5 Can D.F. = 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	2.1	ND	0.32	
79-01-6	Trichloroethene	ND	2.1	ND	0.39	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	ND	0.47	
108-10-1	4-Methyl-2-pentanone	ND	2.1	ND	0.52	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ND	0.47	
79-00-5	1,1,2-Trichloroethane	ND	2.1	ND	0.39	
108-88-3	Toluene	**23**	2.1	**6.2**	0.56	
591-78-6	2-Hexanone	**3.2**	2.1	**0.79**	0.52	
124-48-1	Dibromochloromethane	ND	2.1	ND	0.25	
106-93-4	1,2-Dibromoethane	ND	2.1	ND	0.28	
127-18-4	Tetrachloroethene	ND	2.1	ND	0.31	
108-90-7	Chlorobenzene	ND	2.1	ND	0.46	
100-41-4	Ethylbenzene	**9.1**	2.1	**2.1**	0.49	
179601-23-1	*m,p*-Xylenes	**19**	2.1	**4.3**	0.49	
75-25-2	Bromoform	ND	2.1	ND	0.21	
100-42-5	Styrene	ND	2.1	ND	0.50	
95-47-6	o-Xylene	**7.1**	2.1	**1.6**	0.49	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	ND	0.31	
541-73-1	1,3-Dichlorobenzene	ND	2.1	ND	0.35	
106-46-7	1,4-Dichlorobenzene	ND	2.1	ND	0.35	
95-50-1	1,2-Dichlorobenzene	ND	2.1	ND	0.35	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01070

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.5	ND	0.71	
75-01-4	Vinyl Chloride	ND	1.5	ND	0.58	
74-83-9	Bromomethane	ND	1.5	ND	0.38	
75-00-3	Chloroethane	ND	1.5	ND	0.56	
67-64-1	Acetone	**33**	7.4	**14**	3.1	
75-69-4	Trichlorofluoromethane	**1.7**	1.5	**0.30**	0.26	
75-35-4	1,1-Dichloroethene	ND	1.5	ND	0.37	
75-09-2	Methylene chloride	ND	1.5	ND	0.42	
76-13-1	Trichlorotrifluoroethane	ND	1.5	ND	0.19	
75-15-0	Carbon Disulfide	ND	1.5	ND	0.47	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	ND	0.37	
75-34-3	1,1-Dichloroethane	ND	1.5	ND	0.36	
1634-04-4	Methyl tert-Butyl Ether	ND	1.5	ND	0.41	
108-05-4	Vinyl Acetate	ND	7.4	ND	2.1	
78-93-3	2-Butanone (MEK)	**4.8**	1.5	**1.6**	0.50	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	ND	0.37	
67-66-3	Chloroform	ND	1.5	ND	0.30	
107-06-2	1,2-Dichloroethane	ND	1.5	ND	0.36	
71-55-6	1,1,1-Trichloroethane	ND	1.5	ND	0.27	
71-43-2	Benzene	**1.7**	1.5	**0.52**	0.46	
56-23-5	Carbon Tetrachloride	ND	1.5	ND	0.23	
78-87-5	1,2-Dichloropropane	ND	1.5	ND	0.32	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-002

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01070

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.5	ND	0.22	
79-01-6	Trichloroethene	ND	1.5	ND	0.27	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	ND	0.32	
108-10-1	4-Methyl-2-pentanone	ND	1.5	ND	0.36	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	ND	0.32	
79-00-5	1,1,2-Trichloroethane	ND	1.5	ND	0.27	
108-88-3	Toluene	**6.8**	1.5	**1.8**	0.39	
591-78-6	2-Hexanone	ND	1.5	ND	0.36	
124-48-1	Dibromochloromethane	ND	1.5	ND	0.17	
106-93-4	1,2-Dibromoethane	ND	1.5	ND	0.19	
127-18-4	Tetrachloroethene	ND	1.5	ND	0.22	
108-90-7	Chlorobenzene	ND	1.5	ND	0.32	
100-41-4	Ethylbenzene	ND	1.5	ND	0.34	
179601-23-1	*m,p* -Xylenes	**5.0**	1.5	**1.1**	0.34	
75-25-2	Bromoform	ND	1.5	ND	0.14	
100-42-5	Styrene	ND	1.5	ND	0.35	
95-47-6	o-Xylene	**1.7**	1.5	**0.39**	0.34	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.5	ND	0.21	
541-73-1	1,3-Dichlorobenzene	ND	1.5	ND	0.24	
106-46-7	1,4-Dichlorobenzene	ND	1.5	ND	0.24	
95-50-1	1,2-Dichlorobenzene	ND	1.5	ND	0.24	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07-SC**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01128

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.8 Pf 1 = 3.7

Can D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.7	ND	0.82	
75-01-4	Vinyl Chloride	ND	1.7	ND	0.66	
74-83-9	Bromomethane	ND	1.7	ND	0.44	
75-00-3	Chloroethane	ND	1.7	ND	0.64	
67-64-1	Acetone	**25**	8.5	**10**	3.6	**M**
75-69-4	Trichlorofluoromethane	**1.7**	1.7	**0.31**	0.30	
75-35-4	1,1-Dichloroethene	ND	1.7	ND	0.43	
75-09-2	Methylene chloride	ND	1.7	ND	0.49	
76-13-1	Trichlorotrifluoroethane	ND	1.7	ND	0.22	
75-15-0	Carbon Disulfide	ND	1.7	ND	0.54	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	ND	0.43	
75-34-3	1,1-Dichloroethane	ND	1.7	ND	0.42	
1634-04-4	Methyl tert-Butyl Ether	ND	1.7	ND	0.47	
108-05-4	Vinyl Acetate	ND	8.5	ND	2.4	
78-93-3	2-Butanone (MEK)	**3.3**	1.7	**1.1**	0.57	
156-59-2	cis-1,2-Dichloroethene	ND	1.7	ND	0.43	
67-66-3	Chloroform	ND	1.7	ND	0.35	
107-06-2	1,2-Dichloroethane	ND	1.7	ND	0.42	
71-55-6	1,1,1-Trichloroethane	ND	1.7	ND	0.31	
71-43-2	Benzene	**1.8**	1.7	**0.55**	0.53	
56-23-5	Carbon Tetrachloride	ND	1.7	ND	0.27	
78-87-5	1,2-Dichloropropane	ND	1.7	ND	0.37	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07-SC**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-003

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01128

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.8 Pf 1 = 3.7

Can D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.7	ND	0.25	
79-01-6	Trichloroethene	ND	1.7	ND	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	ND	0.37	
108-10-1	4-Methyl-2-pentanone	ND	1.7	ND	0.41	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	ND	0.37	
79-00-5	1,1,2-Trichloroethane	ND	1.7	ND	0.31	
108-88-3	Toluene	**6.7**	1.7	**1.8**	0.45	
591-78-6	2-Hexanone	ND	1.7	ND	0.41	
124-48-1	Dibromochloromethane	ND	1.7	ND	0.20	
106-93-4	1,2-Dibromoethane	ND	1.7	ND	0.22	
127-18-4	Tetrachloroethene	ND	1.7	ND	0.25	
108-90-7	Chlorobenzene	ND	1.7	ND	0.37	
100-41-4	Ethylbenzene	ND	1.7	ND	0.39	
179601-23-1	*m,p*-Xylenes	**4.8**	1.7	**1.1**	0.39	
75-25-2	Bromoform	ND	1.7	ND	0.16	
100-42-5	Styrene	ND	1.7	ND	0.40	
95-47-6	o-Xylene	ND	1.7	ND	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	ND	0.25	
541-73-1	1,3-Dichlorobenzene	ND	1.7	ND	0.28	
106-46-7	1,4-Dichlorobenzene	ND	1.7	ND	0.28	
95-50-1	1,2-Dichlorobenzene	ND	1.7	ND	0.28	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro Date: 10/9/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-004

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00985

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.7 Pf 1 = 3.5

Can D.F. = 1.82

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.8	ND	0.88	
75-01-4	Vinyl Chloride	ND	1.8	ND	0.71	
74-83-9	Bromomethane	ND	1.8	ND	0.47	
75-00-3	Chloroethane	ND	1.8	ND	0.69	
67-64-1	Acetone	**110**	9.1	**45**	3.8	**M**
75-69-4	Trichlorofluoromethane	**2.2**	1.8	**0.40**	0.32	
75-35-4	1,1-Dichloroethene	ND	1.8	ND	0.46	
75-09-2	Methylene chloride	**31**	1.8	**9.0**	0.52	
76-13-1	Trichlorotrifluoroethane	ND	1.8	ND	0.24	
75-15-0	Carbon Disulfide	ND	1.8	ND	0.58	
156-60-5	trans-1,2-Dichloroethene	ND	1.8	ND	0.46	
75-34-3	1,1-Dichloroethane	ND	1.8	ND	0.45	
1634-04-4	Methyl tert-Butyl Ether	**4.0**	1.8	**1.1**	0.51	
108-05-4	Vinyl Acetate	ND	9.1	ND	2.6	
78-93-3	2-Butanone (MEK)	**17**	1.8	**5.7**	0.62	
156-59-2	cis-1,2-Dichloroethene	ND	1.8	ND	0.46	
67-66-3	Chloroform	ND	1.8	ND	0.37	
107-06-2	1,2-Dichloroethane	ND	1.8	ND	0.45	
71-55-6	1,1,1-Trichloroethane	**2.4**	1.8	**0.45**	0.33	
71-43-2	Benzene	**5.7**	1.8	**1.8**	0.57	
56-23-5	Carbon Tetrachloride	ND	1.8	ND	0.29	
78-87-5	1,2-Dichloropropane	ND	1.8	ND	0.39	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-004

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00985

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.7 Pf 1 = 3.5

Can D.F. = 1.82

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.8	ND	0.27	
79-01-6	Trichloroethene	**2.8**	1.8	**0.52**	0.34	
10061-01-5	cis-1,3-Dichloropropene	ND	1.8	ND	0.40	
108-10-1	4-Methyl-2-pentanone	**2.1**	1.8	**0.51**	0.44	
10061-02-6	trans-1,3-Dichloropropene	ND	1.8	ND	0.40	
79-00-5	1,1,2-Trichloroethane	ND	1.8	ND	0.33	
108-88-3	Toluene	**82**	1.8	**22**	0.48	
591-78-6	2-Hexanone	ND	1.8	ND	0.44	
124-48-1	Dibromochloromethane	ND	1.8	ND	0.21	
106-93-4	1,2-Dibromoethane	ND	1.8	ND	0.24	
127-18-4	Tetrachloroethene	**9.0**	1.8	**1.3**	0.27	
108-90-7	Chlorobenzene	ND	1.8	ND	0.40	
100-41-4	Ethylbenzene	**7.6**	1.8	**1.7**	0.42	
179601-23-1	*m,p*-Xylenes	**33**	1.8	**7.5**	0.42	
75-25-2	Bromoform	ND	1.8	ND	0.18	
100-42-5	Styrene	**2.3**	1.8	**0.54**	0.43	
95-47-6	o-Xylene	**10**	1.8	**2.3**	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.8	ND	0.27	
541-73-1	1,3-Dichlorobenzene	ND	1.8	ND	0.30	
106-46-7	1,4-Dichlorobenzene	ND	1.8	ND	0.30	
95-50-1	1,2-Dichlorobenzene	ND	1.8	ND	0.30	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.6

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**46**	8.1	**19**	3.4	**M**
75-69-4	Trichlorofluoromethane	**2.4**	1.6	**0.43**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	**7.4**	1.6	**2.1**	0.47	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	**7.2**	1.6	**2.5**	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**1.7**	1.6	**0.54**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.6

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**8.2**	1.6	**2.2**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	ND	1.6	ND	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**3.2**	1.6	**0.75**	0.37	
179601-23-1	*m,p*-Xylenes	**14**	1.6	**3.3**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**4.6**	1.6	**1.1**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.6

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.6	ND	0.78	
75-01-4	Vinyl Chloride	ND	1.6	ND	0.63	
74-83-9	Bromomethane	ND	1.6	ND	0.42	
75-00-3	Chloroethane	ND	1.6	ND	0.61	
67-64-1	Acetone	**47**	8.1	**20**	3.4	**M**
75-69-4	Trichlorofluoromethane	**2.5**	1.6	**0.45**	0.29	
75-35-4	1,1-Dichloroethene	ND	1.6	ND	0.41	
75-09-2	Methylene chloride	**7.6**	1.6	**2.2**	0.47	
76-13-1	Trichlorotrifluoroethane	ND	1.6	ND	0.21	
75-15-0	Carbon Disulfide	ND	1.6	ND	0.52	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	ND	0.41	
75-34-3	1,1-Dichloroethane	ND	1.6	ND	0.40	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	ND	0.45	
108-05-4	Vinyl Acetate	ND	8.1	ND	2.3	
78-93-3	2-Butanone (MEK)	**7.4**	1.6	**2.5**	0.55	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	ND	0.41	
67-66-3	Chloroform	ND	1.6	ND	0.33	
107-06-2	1,2-Dichloroethane	ND	1.6	ND	0.40	
71-55-6	1,1,1-Trichloroethane	ND	1.6	ND	0.30	
71-43-2	Benzene	**1.8**	1.6	**0.55**	0.51	
56-23-5	Carbon Tetrachloride	ND	1.6	ND	0.26	
78-87-5	1,2-Dichloropropane	ND	1.6	ND	0.35	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005DUP

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.6

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.6	ND	0.24	
79-01-6	Trichloroethene	ND	1.6	ND	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	ND	0.36	
108-10-1	4-Methyl-2-pentanone	ND	1.6	ND	0.40	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	ND	0.36	
79-00-5	1,1,2-Trichloroethane	ND	1.6	ND	0.30	
108-88-3	Toluene	**8.4**	1.6	**2.2**	0.43	
591-78-6	2-Hexanone	ND	1.6	ND	0.40	
124-48-1	Dibromochloromethane	ND	1.6	ND	0.19	
106-93-4	1,2-Dibromoethane	ND	1.6	ND	0.21	
127-18-4	Tetrachloroethene	ND	1.6	ND	0.24	
108-90-7	Chlorobenzene	ND	1.6	ND	0.35	
100-41-4	Ethylbenzene	**3.3**	1.6	**0.76**	0.37	
179601-23-1	*m,p* -Xylenes	**15**	1.6	**3.4**	0.37	
75-25-2	Bromoform	ND	1.6	ND	0.16	
100-42-5	Styrene	ND	1.6	ND	0.38	
95-47-6	o-Xylene	**4.7**	1.6	**1.1**	0.37	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	ND	0.24	
541-73-1	1,3-Dichlorobenzene	ND	1.6	ND	0.27	
106-46-7	1,4-Dichlorobenzene	ND	1.6	ND	0.27	
95-50-1	1,2-Dichlorobenzene	ND	1.6	ND	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ru Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.3 Pf 1 = 3.9

Can D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.2	ND	0.60	
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
74-83-9	Bromomethane	ND	1.2	ND	0.32	
75-00-3	Chloroethane	ND	1.2	ND	0.47	
67-64-1	Acetone	**130**	6.2	**54**	2.6	**M**
75-69-4	Trichlorofluoromethane	**1.6**	1.2	**0.29**	0.22	
75-35-4	1,1-Dichloroethene	ND	1.2	ND	0.31	
75-09-2	Methylene chloride	**2.1**	1.2	**0.60**	0.36	
76-13-1	Trichlorotrifluoroethane	ND	1.2	ND	0.16	
75-15-0	Carbon Disulfide	ND	1.2	ND	0.40	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
75-34-3	1,1-Dichloroethane	ND	1.2	ND	0.31	
1634-04-4	Methyl tert-Butyl Ether	ND	1.2	ND	0.34	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	**23**	1.2	**7.7**	0.42	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
67-66-3	Chloroform	ND	1.2	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	1.2	ND	0.31	
71-55-6	1,1,1-Trichloroethane	ND	1.2	ND	0.23	
71-43-2	Benzene	**6.6**	1.2	**2.1**	0.39	
56-23-5	Carbon Tetrachloride	ND	1.2	ND	0.20	
78-87-5	1,2-Dichloropropane	ND	1.2	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Rev Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = 0.3 Pf 1 = 3.9

Can D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.2	ND	0.19	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	ND	0.27	
108-10-1	4-Methyl-2-pentanone	**1.7**	1.2	**0.41**	0.30	
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	ND	0.27	
79-00-5	1,1,2-Trichloroethane	ND	1.2	ND	0.23	
108-88-3	Toluene	**55**	1.2	**15**	0.33	
591-78-6	2-Hexanone	ND	1.2	ND	0.30	
124-48-1	Dibromochloromethane	ND	1.2	ND	0.15	
106-93-4	1,2-Dibromoethane	ND	1.2	ND	0.16	
127-18-4	Tetrachloroethene	ND	1.2	ND	0.18	
108-90-7	Chlorobenzene	ND	1.2	ND	0.27	
100-41-4	Ethylbenzene	**7.1**	1.2	**1.6**	0.29	
179601-23-1	*m,p* -Xylenes	**34**	1.2	**7.7**	0.29	
75-25-2	Bromoform	ND	1.2	ND	0.12	
100-42-5	Styrene	ND	1.2	ND	0.29	
95-47-6	o-Xylene	**10**	1.2	**2.3**	0.29	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	ND	0.18	
541-73-1	1,3-Dichlorobenzene	ND	1.2	ND	0.21	
106-46-7	1,4-Dichlorobenzene	ND	1.2	ND	0.21	
95-50-1	1,2-Dichlorobenzene	ND	1.2	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-44-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-007

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00998

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07 & 10/1/07
Volume(s) Analyzed: 0.35 Liter(s)
0.10 Liter(s)

Pi 1 = -5.8 Pf 1 = 3.5
Can D.F. = 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	5.8	ND	2.8	
75-01-4	Vinyl Chloride	ND	5.8	ND	2.3	
74-83-9	Bromomethane	ND	5.8	ND	1.5	
75-00-3	Chloroethane	ND	5.8	ND	2.2	
67-64-1	Acetone	**1,800**	29	**750**	12	
75-69-4	Trichlorofluoromethane	ND	5.8	ND	1.0	
75-35-4	1,1-Dichloroethene	ND	5.8	ND	1.5	
75-09-2	Methylene chloride	**69**	5.8	**20**	1.7	
76-13-1	Trichlorotrifluoroethane	ND	5.8	ND	0.76	
75-15-0	Carbon Disulfide	ND	5.8	ND	1.9	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	ND	1.5	
75-34-3	1,1-Dichloroethane	ND	5.8	ND	1.4	
1634-04-4	Methyl tert-Butyl Ether	ND	5.8	ND	1.6	
108-05-4	Vinyl Acetate	ND	29	ND	8.3	
78-93-3	2-Butanone (MEK)	**44**	5.8	**15**	2.0	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	ND	1.5	
67-66-3	Chloroform	ND	5.8	ND	1.2	
107-06-2	1,2-Dichloroethane	ND	5.8	ND	1.4	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ND	1.1	
71-43-2	Benzene	ND	5.8	ND	1.8	
56-23-5	Carbon Tetrachloride	ND	5.8	ND	0.93	
78-87-5	1,2-Dichloropropane	ND	5.8	ND	1.3	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-44-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-007

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00998

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07 & 10/1/07
Volume(s) Analyzed: 0.35 Liter(s)
0.10 Liter(s)

Pi 1 = -5.8 Pf 1 = 3.5

Can D.F. = 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	5.8	ND	0.87	
79-01-6	Trichloroethene	ND	5.8	ND	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ND	1.3	
108-10-1	4-Methyl-2-pentanone	ND	5.8	ND	1.4	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ND	1.3	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ND	1.1	
108-88-3	Toluene	**420**	5.8	**110**	1.5	
591-78-6	2-Hexanone	ND	5.8	ND	1.4	
124-48-1	Dibromochloromethane	ND	5.8	ND	0.68	
106-93-4	1,2-Dibromoethane	ND	5.8	ND	0.76	
127-18-4	Tetrachloroethene	ND	5.8	ND	0.86	
108-90-7	Chlorobenzene	ND	5.8	ND	1.3	
100-41-4	Ethylbenzene	**30**	5.8	**6.8**	1.3	
179601-23-1	*m,p*-Xylenes	**150**	5.8	**34**	1.3	
75-25-2	Bromoform	ND	5.8	ND	0.56	
100-42-5	Styrene	ND	5.8	ND	1.4	
95-47-6	o-Xylene	**52**	5.8	**12**	1.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ND	0.85	
541-73-1	1,3-Dichlorobenzene	ND	5.8	ND	0.97	
106-46-7	1,4-Dichlorobenzene	ND	5.8	ND	0.97	
95-50-1	1,2-Dichlorobenzene	ND	5.8	ND	0.97	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
179601-23-1	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P071001-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 10/1/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
74-87-3	Chloromethane	ND	1.0	ND	0.48	
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39	
74-83-9	Bromomethane	ND	1.0	ND	0.26	
75-00-3	Chloroethane	ND	1.0	ND	0.38	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18	
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25	
75-09-2	Methylene chloride	ND	1.0	ND	0.29	
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13	
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25	
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	1.0	ND	0.34	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25	
67-66-3	Chloroform	ND	1.0	ND	0.20	
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18	
71-43-2	Benzene	ND	1.0	ND	0.31	
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16	
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P071001-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 10/1/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15	
79-01-6	Trichloroethene	ND	1.0	ND	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22	
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18	
108-88-3	Toluene	ND	1.0	ND	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.24	
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12	
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13	
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15	
108-90-7	Chlorobenzene	ND	1.0	ND	0.22	
100-41-4	Ethylbenzene	ND	1.0	ND	0.23	
179601-23-1	*m,p*-Xylenes	ND	1.0	ND	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.097	
100-42-5	Styrene	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	1.0	ND	0.23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Surrogate Spike Recovery Results

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 9/16 - 9/18/07
Date Received: 9/19/07
Date Analyzed: 9/28 - 10/1/07

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P070928-MB	**95**	80-120	**98**	80-120	**96**	80-120	
Method Blank	P071001-MB	**93**	80-120	**99**	80-120	**98**	80-120	
Lab Control Sample	P070928-LCS	**92**	80-120	**100**	80-120	**102**	80-120	
Lab Control Sample	P071001-LCS	**91**	80-120	**100**	80-120	**102**	80-120	
Duplicate Lab Control Sample	P070928-DLCS	**91**	80-120	**100**	80-120	**101**	80-120	
Duplicate Lab Control Sample	P071001-DLCS	**90**	80-120	**100**	80-120	**102**	80-120	
WDI-IBM-03B-9-16-07	P2702919-001	**93**	80-120	**96**	80-120	**97**	80-120	
WDI-IBM-49-9-16-07	P2702919-002	**96**	80-120	**98**	80-120	**97**	80-120	
WDI-IBM-49-9-16-07-SC	P2702919-003	**94**	80-120	**97**	80-120	**98**	80-120	
WDI-IBM-41-9-16-07	P2702919-004	**94**	80-120	**95**	80-120	**95**	80-120	
WDI-IBM-28-9-16-07	P2702919-005	**93**	80-120	**97**	80-120	**97**	80-120	
WDI-IBM-28-9-16-07	P2702919-005DUP	**91**	80-120	**98**	80-120	**97**	80-120	
WDI-IBM-22-9-18-07	P2702919-006	**87**	80-120	**97**	80-120	**97**	80-120	
WDI-IBM-44-9-16-07	P2702919-007	**92**	80-120	**94**	80-120	**94**	80-120	

Verified By: Rcr Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-LCS, P070928-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/28/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Chloromethane	24.5	24.3	23.6	**99**	**96**	65-135	**3**	35	
Vinyl Chloride	24.8	24.9	24.5	**100**	**99**	65-135	**1**	35	
Bromomethane	25.0	25.5	25.2	**102**	**101**	65-135	**1**	35	
Chloroethane	25.0	25.0	24.9	**100**	**100**	65-135	**0**	35	
Acetone	26.8	27.9	27.9	**104**	**104**	65-135	**0**	35	
Trichlorofluoromethane	26.3	26.1	25.7	**99**	**98**	65-135	**1**	35	
1,1-Dichloroethene	27.8	27.6	27.6	**99**	**99**	65-135	**0**	35	
Methylene chloride	27.8	25.6	25.5	**92**	**92**	65-135	**0**	35	
Trichlorotrifluoroethane	27.8	27.9	28.1	**100**	**101**	65-135	**1**	35	
Carbon Disulfide	25.0	24.9	25.0	**100**	**100**	65-135	**0**	35	
trans-1,2-Dichloroethene	26.5	27.2	27.0	**103**	**102**	65-135	**1**	35	
1,1-Dichloroethane	26.8	26.6	26.5	**99**	**99**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.8	26.9	26.9	**100**	**100**	65-135	**0**	35	
Vinyl Acetate	25.3	32.5	31.5	**128**	**125**	65-135	**2**	35	
2-Butanone (MEK)	27.0	27.7	27.9	**103**	**103**	65-135	**0**	35	
cis-1,2-Dichloroethene	27.0	27.1	26.9	**100**	**100**	65-135	**0**	35	
Chloroform	29.8	29.3	29.4	**98**	**99**	65-135	**1**	35	
1,2-Dichloroethane	26.3	26.9	26.8	**102**	**102**	65-135	**0**	35	
1,1,1-Trichloroethane	26.8	27.3	27.2	**102**	**101**	65-135	**1**	35	
Benzene	27.0	26.2	26.1	**97**	**97**	65-135	**0**	35	
Carbon Tetrachloride	26.0	27.9	27.7	**107**	**107**	65-135	**0**	35	
1,2-Dichloropropane	26.5	26.9	26.8	**102**	**101**	65-135	**1**	35	

Verified By: Rec Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-LCS, P070928-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/28/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.8	30.4	30.3	**109**	**109**	65-135	**0**	35	
Trichloroethene	27.3	27.4	27.5	**100**	**101**	65-135	**1**	35	
cis-1,3-Dichloropropene	25.0	26.9	27.1	**108**	**108**	65-135	**0**	35	
4-Methyl-2-pentanone	27.5	28.4	28.2	**103**	**103**	65-135	**0**	35	
trans-1,3-Dichloropropene	28.0	30.8	30.9	**110**	**110**	65-135	**0**	35	
1,1,2-Trichloroethane	26.3	27.5	27.4	**105**	**104**	65-135	**1**	35	
Toluene	26.5	26.8	26.9	**101**	**102**	65-135	**1**	35	
2-Hexanone	26.3	29.2	28.8	**111**	**110**	65-135	**0.9**	35	
Dibromochloromethane	27.0	31.9	31.8	**118**	**118**	65-135	**0**	35	
1,2-Dibromoethane	26.3	29.3	29.3	**111**	**111**	65-135	**0**	35	
Tetrachloroethene	26.0	27.3	27.3	**105**	**105**	65-135	**0**	35	
Chlorobenzene	26.5	26.9	26.8	**102**	**101**	65-135	**1**	35	
Ethylbenzene	26.3	27.4	27.4	**104**	**104**	65-135	**0**	35	
m,p-Xylenes	62.5	65.1	64.9	**104**	**104**	65-135	**0**	35	
Bromoform	31.3	39.7	39.5	**127**	**126**	65-135	**0.8**	35	
Styrene	26.3	30.2	30.1	**115**	**114**	65-135	**0.9**	35	
o-Xylene	29.8	31.5	31.6	**106**	**106**	65-135	**0**	35	
1,1,2,2-Tetrachloroethane	29.8	34.1	33.9	**114**	**114**	65-135	**0**	35	
1,3-Dichlorobenzene	25.5	29.1	29.1	**114**	**114**	65-135	**0**	35	
1,4-Dichlorobenzene	26.3	29.6	29.6	**113**	**113**	65-135	**0**	35	
1,2-Dichlorobenzene	25.8	29.3	29.2	**114**	**113**	65-135	**0.9**	35	

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P071001-LCS, P071001-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/1/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Chloromethane	24.5	24.2	23.4	**99**	**96**	65-135	**3**	35	
Vinyl Chloride	24.8	24.9	24.4	**100**	**98**	65-135	**2**	35	
Bromomethane	25.0	25.5	25.2	**102**	**101**	65-135	**1**	35	
Chloroethane	25.0	25.1	24.9	**100**	**100**	65-135	**0**	35	
Acetone	26.8	28.0	27.6	**104**	**103**	65-135	**1**	35	
Trichlorofluoromethane	26.3	25.9	25.6	**98**	**97**	65-135	**1**	35	
1,1-Dichloroethene	27.8	27.5	27.3	**99**	**98**	65-135	**1**	35	
Methylene chloride	27.8	25.4	25.2	**91**	**91**	65-135	**0**	35	
Trichlorotrifluoroethane	27.8	28.2	28.2	**101**	**101**	65-135	**0**	35	
Carbon Disulfide	25.0	24.7	24.7	**99**	**99**	65-135	**0**	35	
trans-1,2-Dichloroethene	26.5	27.0	26.7	**102**	**101**	65-135	**1**	35	
1,1-Dichloroethane	26.8	26.1	25.9	**97**	**97**	65-135	**0**	35	
Methyl tert-Butyl Ether	26.8	27.0	26.9	**101**	**100**	65-135	**1**	35	
Vinyl Acetate	25.3	31.1	30.8	**123**	**122**	65-135	**0.8**	35	
2-Butanone (MEK)	27.0	27.6	27.7	**102**	**103**	65-135	**1**	35	
cis-1,2-Dichloroethene	27.0	26.7	26.5	**99**	**98**	65-135	**1**	35	
Chloroform	29.8	29.0	28.8	**97**	**97**	65-135	**0**	35	
1,2-Dichloroethane	26.3	26.7	26.5	**102**	**101**	65-135	**1**	35	
1,1,1-Trichloroethane	26.8	27.1	26.9	**101**	**100**	65-135	**1**	35	
Benzene	27.0	25.8	25.8	**96**	**96**	65-135	**0**	35	
Carbon Tetrachloride	26.0	27.5	27.5	**106**	**106**	65-135	**0**	35	
1,2-Dichloropropane	26.5	26.5	26.5	**100**	**100**	65-135	**0**	35	

Verified By: Ro Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P071001-LCS, P071001-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/1/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS ng	Result LCS ng	Result DLCS ng	% Recovery LCS	% Recovery DLCS	Acceptance Limits	RPD	RPD Limit %	Data Qualifier
Bromodichloromethane	27.8	30.1	30.0	**108**	**108**	65-135	**0**	35	
Trichloroethene	27.3	27.2	27.3	**100**	**100**	65-135	**0**	35	
cis-1,3-Dichloropropene	25.0	26.6	26.6	**106**	**106**	65-135	**0**	35	
4-Methyl-2-pentanone	27.5	27.8	27.7	**101**	**101**	65-135	**0**	35	
trans-1,3-Dichloropropene	28.0	30.8	30.6	**110**	**109**	65-135	**0.9**	35	
1,1,2-Trichloroethane	26.3	27.2	27.2	**103**	**103**	65-135	**0**	35	
Toluene	26.5	26.6	26.5	**100**	**100**	65-135	**0**	35	
2-Hexanone	26.3	28.4	28.0	**108**	**106**	65-135	**2**	35	
Dibromochloromethane	27.0	31.9	31.6	**118**	**117**	65-135	**0.9**	35	
1,2-Dibromoethane	26.3	29.2	29.1	**111**	**111**	65-135	**0**	35	
Tetrachloroethene	26.0	27.4	27.3	**105**	**105**	65-135	**0**	35	
Chlorobenzene	26.5	26.7	26.6	**101**	**100**	65-135	**1**	35	
Ethylbenzene	26.3	27.3	27.1	**104**	**103**	65-135	**1**	35	
m,p-Xylenes	62.5	65.0	64.4	**104**	**103**	65-135	**1**	35	
Bromoform	31.3	39.8	39.1	**127**	**125**	65-135	**2**	35	
Styrene	26.3	30.0	29.8	**114**	**113**	65-135	**0.9**	35	
o-Xylene	29.8	31.5	31.4	**106**	**105**	65-135	**0.9**	35	
1,1,2,2-Tetrachloroethane	29.8	33.8	33.6	**113**	**113**	65-135	**0**	35	
1,3-Dichlorobenzene	25.5	29.1	28.9	**114**	**113**	65-135	**0.9**	35	
1,4-Dichlorobenzene	26.3	29.7	29.4	**113**	**112**	65-135	**0.9**	35	
1,2-Dichlorobenzene	25.8	29.1	28.8	**113**	**112**	65-135	**0.9**	35	

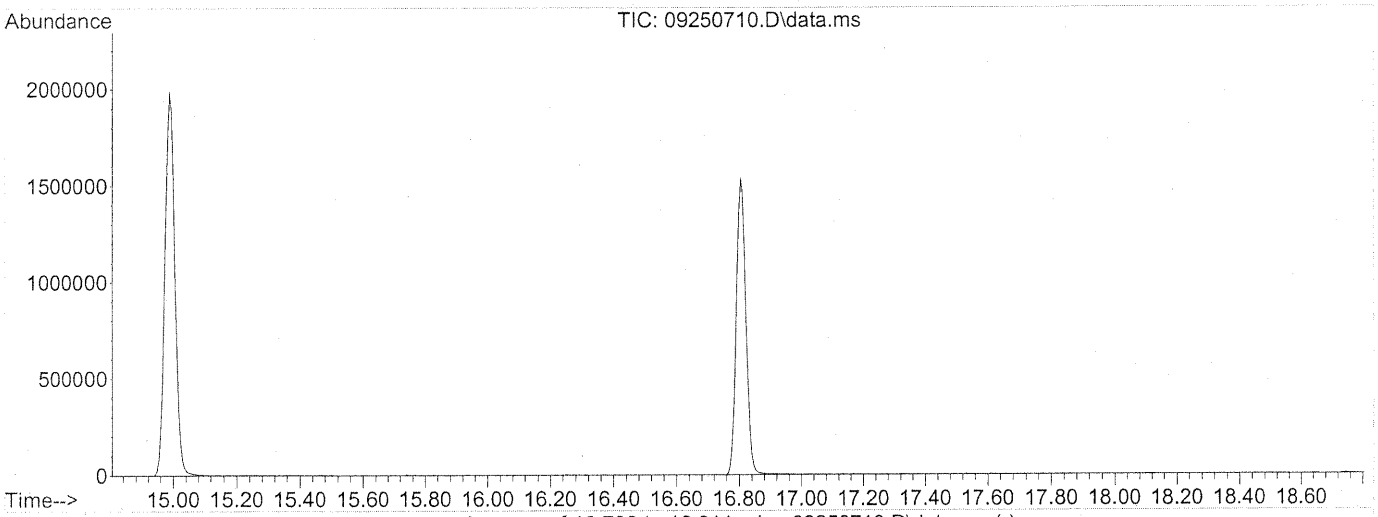
Verified By: Rc Date: 10/4/07

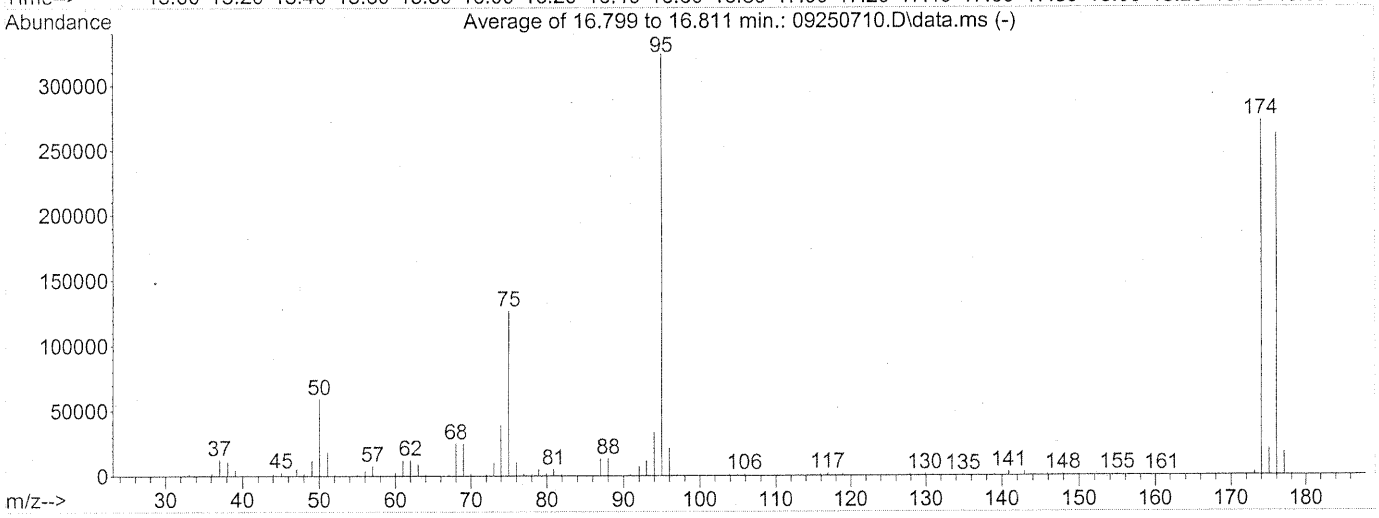
BFB

Data Path : J:\MS09\Data\2007_09\25\
Data File : 09250710.D
Acq On : 25 Sep 2007 3:57 pm
Operator : WA/EM
Sample : 25ng TO-15 BFB
Misc : S20-09100701
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9092507.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Wed Sep 26 15:35:45 2007





AutoFind: Scans 2314, 2315, 2316; Background Corrected with Scan 2304

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	59029	PASS
75	95	30	66	39.1	126653	PASS
95	95	100	100	100.0	323946	PASS
96	95	5	9	6.6	21234	PASS
173	174	0.00	2	0.9	2415	PASS
174	95	50	120	84.1	272320	PASS
175	174	4	9	7.4	20082	PASS
176	174	93	101	96.1	261717	PASS
177	176	5	9	6.6	17302	PASS

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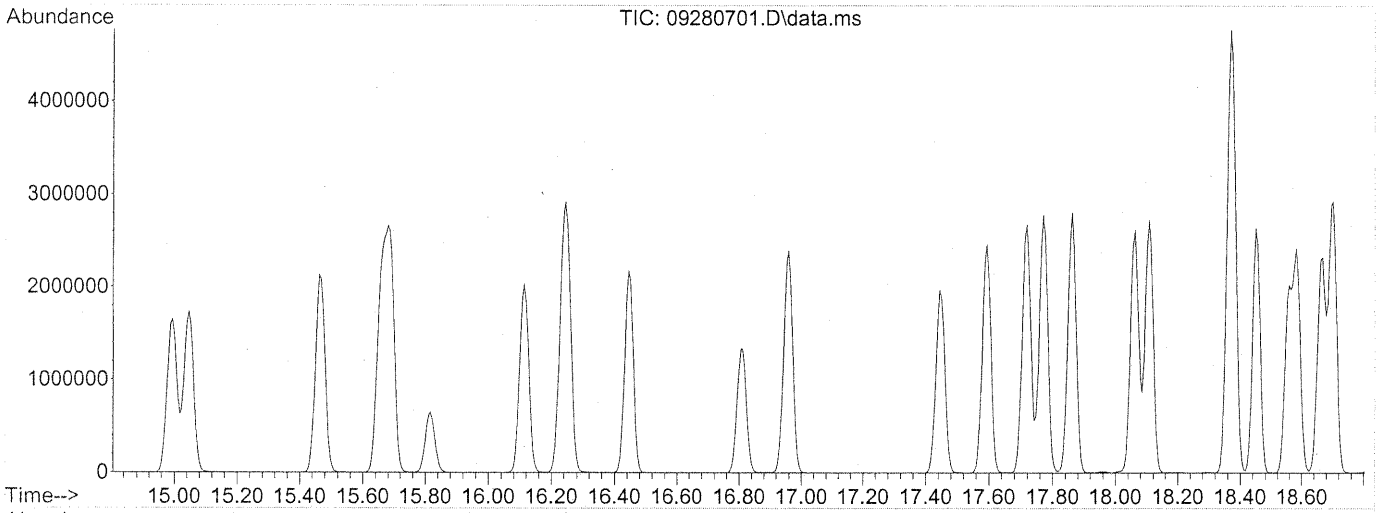
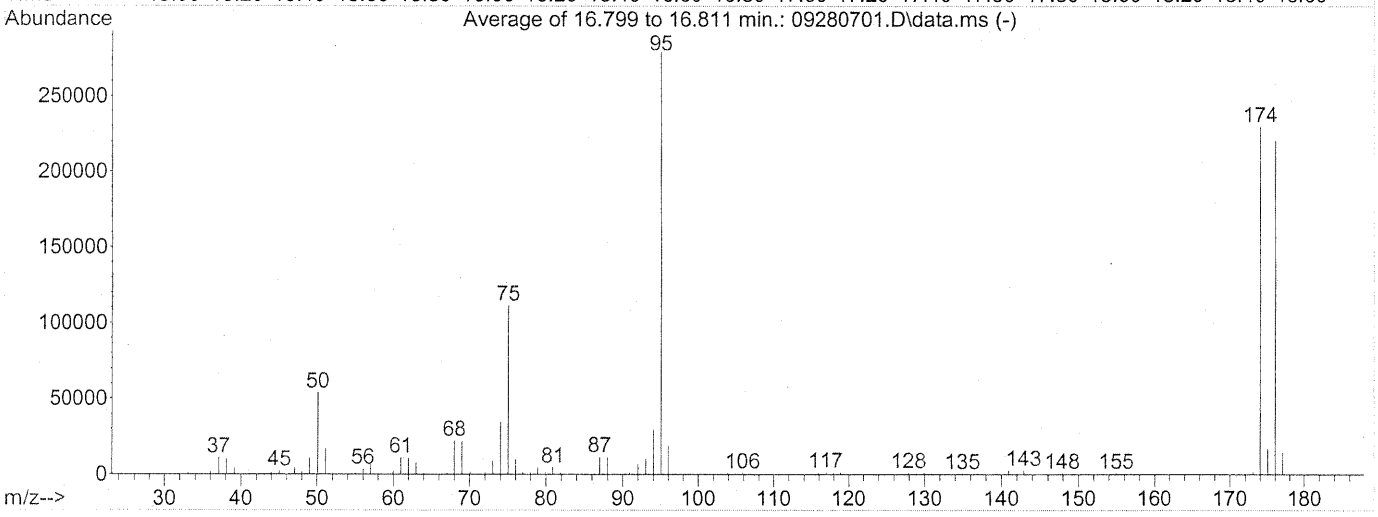
BFB

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280701.D
Acq On : 28 Sep 2007 11:54 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S2009250712
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9092507.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Wed Sep 26 15:35:45 2007





AutoFind: Scans 2314, 2315, 2316; Background Corrected with Scan 2305

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.3	53837	PASS
75	95	30	66	40.0	111512	PASS
95	95	100	100	100.0	279061	PASS
96	95	5	9	6.7	18749	PASS
173	174	0.00	2	0.8	1858	PASS
174	95	50	120	82.4	229888	PASS
175	174	4	9	7.3	16749	PASS
176	174	93	101	96.1	220821	PASS
177	176	5	9	6.5	14357	PASS

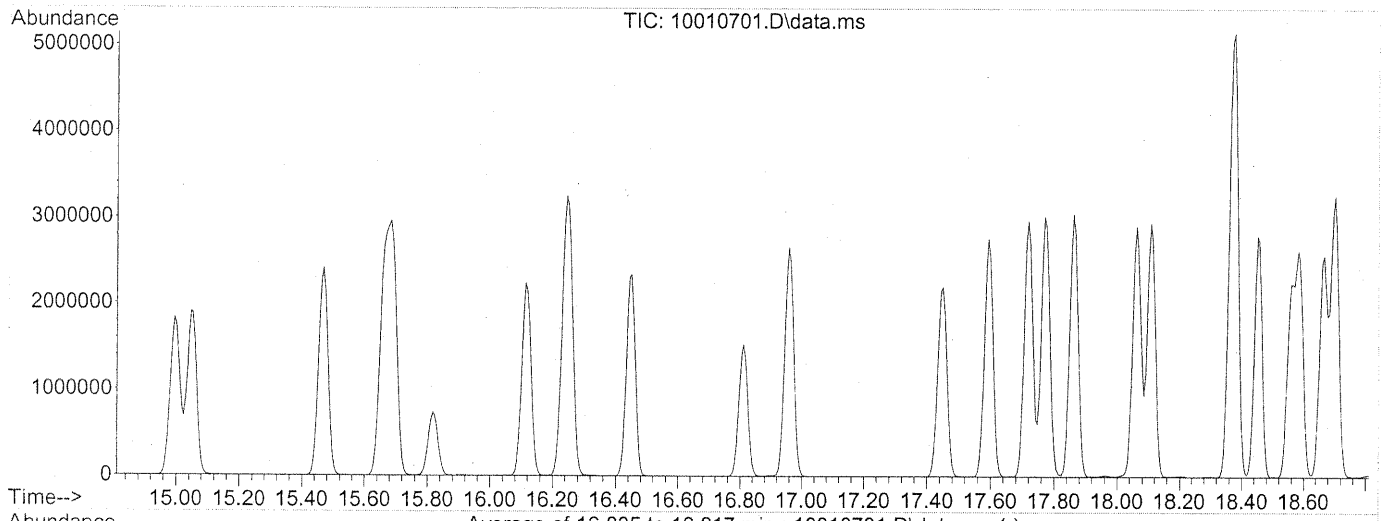
Eom 9/28/7 RDT 10/2/07 47

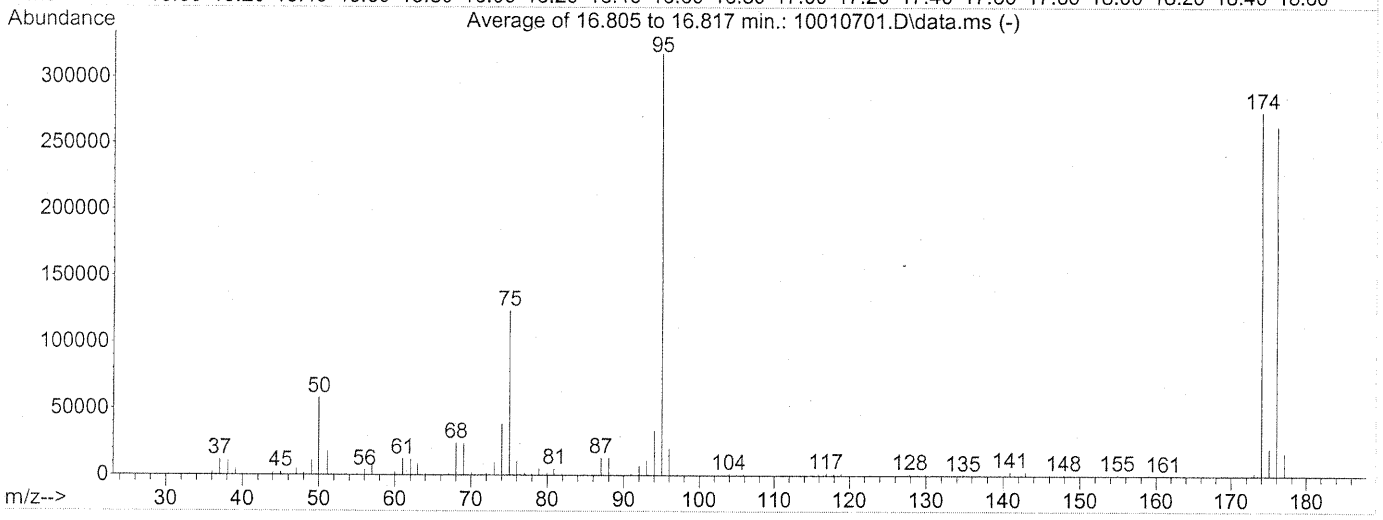
BFB

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010701.D
Acq On : 1 Oct 2007 8:08 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9092507.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Wed Sep 26 15:35:45 2007





AutoFind: Scans 2315, 2316, 2317; Background Corrected with Scan 2305

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	57906	PASS
75	95	30	66	38.9	123589	PASS
95	95	100	100	100.0	317973	PASS
96	95	5	9	6.4	20349	PASS
173	174	0.00	2	0.8	2142	PASS
174	95	50	120	86.2	273984	PASS
175	174	4	9	7.4	20280	PASS
176	174	93	101	96.0	262997	PASS
177	176	5	9	6.5	17225	PASS

Bm 10/1/7 10/2/07 48

Response Factor Report MS09

Method Path : J:\MS09\Methods\
Method File : R9092507.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
Last Update : Wed Sep 26 15:35:45 2007
Response Via : Initial Calibration

Calibration Files
0.1 =09250711.D 0.5 =09250712.D 1.0 =09250713.D 5.0 =09250714.D 25 =09250715.D 50 =09250716.D 100 =09250717.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane...	----------ISTD----------								
2)	T	Propene	1.890	1.805	1.556	1.426	1.259	1.162	1.049	1.449	22.02
3)	T	Dichlorodifluo...	2.821	2.735	2.423	2.134	1.951	1.794	1.671	2.218	20.41
4)	T	Chloromethane	2.564	2.757	2.438	2.202	2.076	1.890	1.733	2.237	16.52
5)	T	Freon 114	1.412	1.256	1.131	0.966	0.926	0.829	0.749	1.038	22.96
6)	T	Vinyl Chloride	1.235	1.481	1.297	1.148	1.076	0.992	0.911	1.163	16.66
7)	T	1,3-Butadiene	0.783	1.037	0.962	0.881	0.865	0.809	0.723	0.866	12.43
8)	T	Bromomethane	1.060	1.294	1.123	1.031	0.979	0.909	0.865	1.037	13.82
9)	T	Chloroethane	1.013	1.126	1.027	0.933	0.882	0.807	0.757	0.935	13.95
10)	T	Ethanol		1.008	0.912	0.823	0.918	0.892	0.902	0.909	6.50
11)	T	Acetonitrile	2.453	2.799	2.418	2.165	2.320	2.216	2.169	2.363	9.50
12)	T	Acrolein		0.796	0.725	0.686	0.731	0.698	0.689	0.721	5.72
13)	T	Acetone			1.274	1.032	0.926	0.941	0.923	1.019	14.63
14)	T	Trichlorofluor...	1.954	2.071	1.784	1.639	1.621	1.550	1.495	1.731	12.42
15)	T	Isopropanol		4.030	3.603	3.020	3.385	2.699	2.477	3.202	18.16
16)	T	Acrylonitrile		1.888	1.676	1.682	1.796	1.735	1.691	1.745	4.78
17)	T	1,1-Dichloroet...	1.157	1.310	1.137	1.064	1.014	0.951	0.899	1.076	12.92
18)	T	tert-Butanol		3.340	2.931	2.543	2.516	2.275	1.917	2.587	19.23
19)	T	Methylene Chlo...	1.632	1.447	1.218	1.092	1.044	0.972	0.887	1.185	22.67
20)	T	Allyl Chloride	1.400	1.871	1.738	1.725	1.783	1.676	1.600	1.685	8.97
21)	T	Trichlorotrifl...	1.265	1.331	1.154	1.076	1.080	1.020	0.950	1.125	11.98
22)	T	Carbon Disulfide		5.223	4.547	4.159	4.017	3.706	3.362	4.169	15.70
23)	T	trans-1,2-Dich...	1.811	2.043	1.844	1.683	1.661	1.559	1.484	1.727	10.94
24)	T	1,1-Dichloroet...	2.106	2.377	2.032	1.784	1.697	1.553	1.387	1.848	18.57
25)	T	Methyl tert-Bu...	3.092	3.319	2.941	2.759	2.610	2.400	2.103	2.746	15.15
26)	T	Vinyl Acetate			0.141	0.189	0.216	0.215	0.198	0.192	16.00
27)	T	2-Butanone	0.757	0.808	0.725	0.680	0.671	0.628	0.570	0.691	11.55
28)	T	cis-1,2-Dichlo...	1.647	1.926	1.671	1.514	1.477	1.402	1.350	1.570	12.51
29)	T	Diisopropyl Ether	0.761	1.048	0.930	0.863	0.807	0.732	0.628	0.824	16.74
30)	T	Ethyl Acetate		0.467	0.445	0.439	0.400	0.364	0.284	0.400	16.93
31)	T	n-Hexane		2.697	2.306	2.170	2.082	1.905	1.576	2.123	17.80
32)	T	Chloroform	1.841	1.936	1.674	1.398	1.367	1.229	1.159	1.515	20.04
33)	S	1,2-Dichloroet...	1.307	1.303	1.303	1.222	1.211	1.131	1.140	1.231	6.20
34)	T	Tetrahydrofuran	0.645	0.817	0.721	0.696	0.668	0.595	0.482	0.661	15.85
35)	T	Ethyl tert-But...	1.249	1.401	1.243	1.184	1.176	1.104	1.018	1.196	10.13
36)	T	1,2-Dichloroet...	1.579	1.770	1.543	1.447	1.436	1.332	1.202	1.473	12.38
37)	IR	1,4-Difluorobenzen...	----------ISTD----------								
38)	T	1,1,1-Trichlor...	0.405	0.432	0.392	0.364	0.378	0.372	0.381	0.389	5.99
39)	T	Isopropyl Acetate		0.182	0.176	0.167	0.175	0.174	0.171	0.174	2.90
40)	T	1-Butanol		0.231	0.198	0.190	0.277	0.281	0.285	0.244	17.68

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BM 9/26/7

Method Path : J:\MS09\Methods\
Method File : R9092507.M

41)	T	Benzene	1.209	1.155	1.018	0.923	0.896	0.847	0.796	0.978	16.00
42)	T	Carbon Tetrach...	0.368	0.415	0.378	0.364	0.391	0.390	0.397	0.386	4.63
43)	T	Cyclohexane		0.463	0.405	0.354	0.351	0.331	0.312	0.369	15.04
44)	T	tert-Amyl Meth...	0.636	0.714	0.635	0.611	0.615	0.588	0.563	0.623	7.63
45)	T	1,2-Dichloropr...	0.308	0.319	0.287	0.264	0.263	0.256	0.248	0.278	9.85
46)	T	Bromodichlorom...	0.262	0.326	0.292	0.286	0.282	0.264	0.238	0.279	10.01
47)	T	Trichloroethene	0.374	0.390	0.343	0.311	0.299	0.266	0.242	0.318	17.15
48)	T	1,4-Dioxane	0.128	0.207	0.197	0.181	0.175	0.158	0.136	0.169	17.71
49)	T	Isooctane	1.442	1.588	1.420	1.293	1.241	1.069	0.815	1.267	20.43
50)	T	Methyl Methacr...		0.089	0.098	0.102	0.111	0.108	0.106	0.102	7.88
51)	T	n-Heptane		0.292	0.270	0.243	0.235	0.212	0.190	0.240	15.47
52)	T	cis-1,3-Dichlo...		0.388	0.357	0.353	0.340	0.309	0.281	0.338	11.22
53)	T	4-Methyl-2-pen...		0.295	0.270	0.268	0.272	0.250	0.218	0.262	9.89
54)	T	trans-1,3-Dich...		0.308	0.283	0.308	0.320	0.310	0.305	0.306	3.99
55)	T	1,1,2-Trichlor...	0.219	0.285	0.259	0.241	0.238	0.232	0.227	0.243	9.24
56)	I	Chlorobenzene-d5 (...	----------ISTD----------								
57)	S	Toluene-d8 (SS2)	2.473	2.457	2.462	2.450	2.479	2.545	2.558	2.489	1.76
58)	T	Toluene	3.402	3.384	2.985	2.682	2.576	2.319	1.962	2.759	19.43
59)	T	2-Hexanone	1.512	1.918	1.758	1.728	1.832	1.680	1.431	1.694	10.13
60)	T	Dibromochlorom...	0.598	0.794	0.765	0.772	0.843	0.815	0.763	0.764	10.33
61)	T	1,2-Dibromoethane	0.610	0.821	0.764	0.724	0.752	0.717	0.667	0.722	9.46
62)	T	Butyl Acetate	1.297	1.801	1.702	1.696	1.858	1.745	1.506	1.658	11.69
63)	T	n-Octane		0.811	0.717	0.655	0.668	0.616	0.511	0.663	15.13
64)	T	Tetrachloroethene	0.840	0.931	0.816	0.740	0.759	0.707	0.623	0.774	12.87
65)	T	Chlorobenzene	2.298	2.437	2.124	1.930	1.855	1.691	1.467	1.972	17.25
66)	T	Ethylbenzene	3.327	3.524	3.215	2.970	2.856	2.575	2.206	2.953	15.43
67)	T	m- & p-Xylene	2.289	2.342	2.109	1.933	1.855	1.634	1.353	1.931	18.38
68)	T	Bromoform		0.403	0.391	0.434	0.509	0.491	0.460	0.448	10.52
69)	T	Styrene	1.734	1.987	1.909	1.883	1.939	1.762	1.533	1.821	8.60
70)	T	o-Xylene	2.400	2.479	2.235	2.074	2.004	1.737	1.414	2.049	18.32
71)	T	n-Nonane	1.619	1.813	1.629	1.530	1.546	1.328	0.997	1.495	17.57
72)	T	1,1,2,2-Tetrac...	0.767	1.012	0.954	0.909	0.859	0.732	0.573	0.829	18.08
73)	S	Bromofluoroben...	0.842	0.841	0.840	0.851	0.882	0.882	0.894	0.862	2.70
74)	T	Cumene	3.505	3.572	3.249	2.978	2.963	2.666	2.279	3.030	15.18
75)	T	alpha-Pinene	1.417	1.598	1.498	1.435	1.437	1.291	1.103	1.397	11.38
76)	T	n-Propylbenzene	3.756	4.058	3.779	3.478	3.422	3.067	2.562	3.446	14.55
77)	T	3-Ethyltoluene	3.413	3.628	3.323	3.049	3.137	2.853	2.413	3.117	12.84
78)	T	4-Ethyltoluene	3.413	3.441	3.145	2.996	2.980	2.600	2.184	2.966	15.10
79)	T	1,3,5-Trimethy...	2.948	3.009	2.757	2.589	2.593	2.316	1.966	2.597	14.03
80)	T	alpha-Methylst...	1.165	1.449	1.428	1.431	1.581	1.425	1.230	1.387	10.22
81)	T	2-Ethyltoluene	3.450	3.709	3.368	3.179	3.187	2.841	2.391	3.161	13.69
82)	T	1,2,4-Trimethy...	2.646	2.931	2.710	2.567	2.415	2.062	1.594	2.418	18.72
83)	T	n-Decane	1.586	1.867	1.720	1.614	1.649	1.424	1.110	1.567	15.45
84)	T	Benzyl Chloride	1.231	1.695	1.727	1.945	2.145	1.966	1.647	1.765	16.72
85)	T	1,3-Dichlorobe...	1.713	1.907	1.732	1.660	1.721	1.544	1.319	1.656	11.08
86)	T	1,4-Dichlorobe...	1.794	1.892	1.720	1.648	1.688	1.525	1.295	1.652	11.78
87)	T	sec-Butylbenzene	3.438	3.946	3.618	3.450	3.411	2.954	2.407	3.318	15.01
88)	T	p-Isopropyltol...	2.892	3.466	3.176	3.053	2.983	2.573	2.011	2.879	16.30
89)	T	1,2,3-Trimethy...	2.488	2.851	2.662	2.528	2.447	2.124	1.665	2.395	16.31
90)	T	1,2-Dichlorobe...	1.622	1.778	1.629	1.572	1.598	1.437	1.235	1.553	11.10

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JDH 10/2/01
Sm 9/26/7

Method Path : J:\MS09\Methods\
Method File : R9092507.M

91)	T	d-Limonene	0.710	0.917	0.865	0.860	0.836	0.703	0.552	0.778	16.47
92)	T	1,2-Dibromo-3-...		0.411	0.431	0.474	0.526	0.530	0.497	0.478	10.26
93)	T	n-Undecane	1.698	1.853	1.731	1.643	1.633	1.420	1.082	1.580	16.16
94)	T	1,2,4-Trichlor...	0.146	0.273	0.266	0.263	0.257	0.253	0.235	0.242	18.13
95)	T	Naphthalene	3.301	3.473	3.547	3.607	3.559	3.608	3.259	3.479	4.13
96)	T	n-Dodecane	1.485	1.482	1.475	1.475	1.507	1.366	1.055	1.406	11.49
97)	T	Hexachloro-1,3...	0.404	0.441	0.412	0.405	0.401	0.394	0.361	0.402	5.89

(#) = Out of Range

10/2/07
9/26/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280701.D
Acq On : 28 Sep 2007 11:54 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S2009250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 13:27:00 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	83	0.00
2	T	Propene	1.449	1.399	3.5	93	0.00
3	T	Dichlorodifluoromethane	2.218	2.119	4.5	90	0.00
4	T	Chloromethane	2.237	2.282	-2.0	92	0.00
5	T	Freon 114	1.038	0.992	4.4	89	0.00
6	T	Vinyl Chloride	1.163	1.162	0.1	90	0.00
7	T	1,3-Butadiene	0.866	0.945	-9.1	91	0.00
8	T	Bromomethane	1.037	1.056	-1.8	90	0.00
9	T	Chloroethane	0.935	0.944	-1.0	89	0.00
10	T	Ethanol	0.909	1.014	-11.6	92	0.00
11	T	Acetonitrile	2.363	2.561	-8.4	92	0.00
12	T	Acrolein	0.721	0.778	-7.9	89	0.00
13	T	Acetone	1.019	0.994	2.5	89	0.00
14	T	Trichlorofluoromethane	1.731	1.789	-3.4	92	0.00
15	T	Isopropanol	3.202	3.692	-15.3	91	0.00
16	T	Acrylonitrile	1.745	1.941	-11.2	90	0.00
17	T	1,1-Dichloroethene	1.076	1.087	-1.0	89	0.00
18	T	tert-Butanol	2.587	2.766	-6.9	92	0.00
19	T	Methylene Chloride	1.185	1.134	4.3	91	0.00
20	T	Allyl Chloride	1.685	1.955	-16.0	91	0.00
21	T	Trichlorotrifluoroethane	1.125	1.126	-0.1	87	0.00
22	T	Carbon Disulfide	4.169	4.366	-4.7	91	0.00
23	T	trans-1,2-Dichloroethene	1.727	1.802	-4.3	90	0.00
24	T	1,1-Dichloroethane	1.848	1.875	-1.5	92	0.00
25	T	Methyl tert-Butyl Ether	2.746	2.791	-1.6	89	0.00
26	T	Vinyl Acetate	0.192	0.221	-15.1	85	0.00
27	T	2-Butanone	0.691	0.720	-4.2	89	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.603	-2.1	90	0.00
29	T	Diisopropyl Ether	0.824	0.852	-3.4	88	0.00
30	T	Ethyl Acetate	0.400	0.442	-10.5	92	0.00
31	T	n-Hexane	2.123	2.200	-3.6	88	0.00
32	T	Chloroform	1.515	1.542	-1.8	94	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.259	-2.3	87	0.00
34	T	Tetrahydrofuran	0.661	0.723	-9.4	90	0.00
35	T	Ethyl tert-Butyl Ether	1.196	1.236	-3.3	88	0.00
36	T	1,2-Dichloroethane	1.473	1.564	-6.2	91	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.00
38	T	1,1,1-Trichloroethane	0.389	0.404	-3.9	89	0.00
39	T	Isopropyl Acetate	0.174	0.184	-5.7	88	0.00
40	T	1-Butanol	0.244	0.295	-20.9	89	0.00
41	T	Benzene	0.978	0.953	2.6	89	0.00
42	T	Carbon Tetrachloride	0.386	0.415	-7.5	89	0.00
43	T	Cyclohexane	0.369	0.374	-1.4	89	0.00
44	T	tert-Amyl Methyl Ether	0.623	0.653	-4.8	89	0.00
45	T	1,2-Dichloropropane	0.278	0.284	-2.2	90	0.00
46	T	Bromodichloromethane	0.279	0.308	-10.4	91	0.00
47	T	Trichloroethene	0.318	0.315	0.9	88	0.00
48	T	1,4-Dioxane	0.169	0.186	-10.1	89	0.00
49	T	Isooctane	1.267	1.341	-5.8	90	0.00
50	T	Methyl Methacrylate	0.102	0.116	-13.7	88	0.00
51	T	n-Heptane	0.240	0.251	-4.6	89	0.00

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Em 9/28/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280701.D
Acq On : 28 Sep 2007 11:54 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S2009250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 28 13:27:00 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.366	-8.3	90	0.00
53	T	4-Methyl-2-pentanone	0.262	0.289	-10.3	89	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.344	-12.4	90	0.00
55	T	1,1,2-Trichloroethane	0.243	0.255	-4.9	90	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
57	S	Toluene-d8 (SS2)	2.489	2.480	0.4	84	0.00
58	T	Toluene	2.759	2.733	0.9	89	0.00
59	T	2-Hexanone	1.694	1.986	-17.2	91	0.00
60	T	Dibromochloromethane	0.764	0.891	-16.6	89	0.00
61	T	1,2-Dibromoethane	0.722	0.798	-10.5	89	0.00
62	T	Butyl Acetate	1.658	1.976	-19.2	89	0.00
63	T	n-Octane	0.663	0.717	-8.1	90	0.00
64	T	Tetrachloroethene	0.774	0.793	-2.5	88	0.00
65	T	Chlorobenzene	1.972	1.977	-0.3	90	0.00
66	T	Ethylbenzene	2.953	3.046	-3.1	90	0.00
67	T	m- & p-Xylene	1.931	1.986	-2.8	90	0.00
68	T	Bromoform	0.448	0.536	-19.6	89	0.00
69	T	Styrene	1.821	2.058	-13.0	89	0.00
70	T	o-Xylene	2.049	2.142	-4.5	90	0.00
71	T	n-Nonane	1.495	1.706	-14.1	93	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	0.931	-12.3	91	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.867	-0.6	83	0.00
74	T	Cumene	3.030	3.156	-4.2	90	0.00
75	T	alpha-Pinene	1.397	1.531	-9.6	90	0.00
76	T	n-Propylbenzene	3.446	3.679	-6.8	90	0.00
77	T	3-Ethyltoluene	3.117	3.355	-7.6	90	0.00
78	T	4-Ethyltoluene	2.966	3.228	-8.8	91	0.00
79	T	1,3,5-Trimethylbenzene	2.597	2.800	-7.8	91	0.00
80	T	alpha-Methylstyrene	1.387	1.700	-22.6	91	0.00
81	T	2-Ethyltoluene	3.161	3.438	-8.8	91	0.00
82	T	1,2,4-Trimethylbenzene	2.418	2.618	-8.3	91	0.00
83	T	n-Decane	1.567	1.801	-14.9	92	0.00
84	T	Benzyl Chloride	1.765	2.235	-26.6	88	0.00
85	T	1,3-Dichlorobenzene	1.656	1.863	-12.5	91	0.00
86	T	1,4-Dichlorobenzene	1.652	1.842	-11.5	92	0.00
87	T	sec-Butylbenzene	3.318	3.696	-11.4	91	0.00
88	T	p-Isopropyltoluene	2.879	3.248	-12.8	92	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.673	-11.6	92	0.00
90	T	1,2-Dichlorobenzene	1.553	1.742	-12.2	92	0.00
91	T	d-Limonene	0.778	0.910	-17.0	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.596	-24.7	95	0.00
93	T	n-Undecane	1.580	1.808	-14.4	93	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.306	-26.4	100	0.00
95	T	Naphthalene	3.479	4.480	-28.8	106	0.00
96	T	n-Dodecane	1.406	1.744	-24.0	97	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.469	-16.7	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280716.D
Acq On : 28 Sep 2007 10:42 pm
Operator : WA/EM
Sample : 1ng CRQL STD
Misc : S20-09260712/S20-09260711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:05:23 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	90	-0.02
2	T	Propene	1.449	1.739	-20.0	101	0.02
3	T	Dichlorodifluoromethane	2.218	2.674	-20.6	100	0.02
4	T	Chloromethane	2.237	2.667	-19.2	99	0.02
5	T	Freon 114	1.038	1.239	-19.4	99	0.01
6	T	Vinyl Chloride	1.163	1.407	-21.0	98	0.01
7	T	1,3-Butadiene	0.866	1.124	-29.8	105	0.01
8	T	Bromomethane	1.037	1.262	-21.7	101	0.02
9	T	Chloroethane	0.935	1.140	-21.9	100	0.01
10	T	Ethanol	0.909	1.219	-34.1#	121	0.00
11	T	Acetonitrile	2.363	3.014	-27.5	112	0.01
12	T	Acrolein	0.721	0.853	-18.3	106	0.01
13	T	Acetone	1.019	1.595	-56.5#	113	0.00
14	T	Trichlorofluoromethane	1.731	2.019	-16.6	102	0.00
15	T	Isopropanol	3.202	4.005	-25.1	100	-0.02
16	T	Acrylonitrile	1.745	2.029	-16.3	109	0.00
17	T	1,1-Dichloroethene	1.076	1.283	-19.2	102	0.00
18	T	tert-Butanol	2.587	3.129	-21.0	96	-0.02
19	T	Methylene Chloride	1.185	1.352	-14.1	100	0.00
20	T	Allyl Chloride	1.685	2.003	-18.9	104	0.00
21	T	Trichlorotrifluoroethane	1.125	1.281	-13.9	100	0.00
22	T	Carbon Disulfide	4.169	4.999	-19.9	99	0.02
23	T	trans-1,2-Dichloroethene	1.727	2.064	-19.5	101	-0.01
24	T	1,1-Dichloroethane	1.848	2.315	-25.3	103	-0.02
25	T	Methyl tert-Butyl Ether	2.746	3.224	-17.4	99	0.00
26	T	Vinyl Acetate	0.192	0.176	8.3	113	0.00
27	T	2-Butanone	0.691	0.818	-18.4	102	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.872	-19.2	101	-0.02
29	T	Diisopropyl Ether	0.824	1.027	-24.6	100	0.00
30	T	Ethyl Acetate	0.400	0.495	-23.7	100	0.00
31	T	n-Hexane	2.123	2.561	-20.6	100	0.00
32	T	Chloroform	1.515	1.852	-22.2	100	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.278	-3.8	88	-0.02
34	T	Tetrahydrofuran	0.661	0.797	-20.6	100	0.01
35	T	Ethyl tert-Butyl Ether	1.196	1.392	-16.4	101	-0.01
36	T	1,2-Dichloroethane	1.473	1.751	-18.9	102	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	-0.02
38	T	1,1,1-Trichloroethane	0.389	0.427	-9.8	99	-0.01
39	T	Isopropyl Acetate	0.174	0.191	-9.8	98	0.00
40	T	1-Butanol	0.244	0.322	-32.0#	147	0.05
41	T	Benzene	0.978	1.144	-17.0	102	-0.01
42	T	Carbon Tetrachloride	0.386	0.418	-8.3	100	-0.01
43	T	Cyclohexane	0.369	0.448	-21.4	100	0.00
44	T	tert-Amyl Methyl Ether	0.623	0.710	-14.0	101	0.00
45	T	1,2-Dichloropropane	0.278	0.321	-15.5	101	-0.01
46	T	Bromodichloromethane	0.279	0.329	-17.9	102	-0.01
47	T	Trichloroethene	0.318	0.379	-19.2	100	-0.01
48	T	1,4-Dioxane	0.169	0.217	-28.4	100	0.01
49	T	Isooctane	1.267	1.557	-22.9	99	-0.01
50	T	Methyl Methacrylate	0.102	0.109	-6.9	100	0.00
51	T	n-Heptane	0.240	0.303	-26.3	102	-0.01

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Em 10/3/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280716.D
Acq On : 28 Sep 2007 10:42 pm
Operator : WA/EM
Sample : 1ng CRQL STD
Misc : S20-09260712/S20-09260711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:05:23 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.397	-17.5	101	0.00
53	T	4-Methyl-2-pentanone	0.262	0.298	-13.7	100	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.323	-5.6	103	0.00
55	T	1,1,2-Trichloroethane	0.243	0.289	-18.9	101	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.489	2.469	0.8	90	0.00
58	T	Toluene	2.759	3.361	-21.8	102	-0.01
59	T	2-Hexanone	1.694	1.927	-13.8	99	0.00
60	T	Dibromochloromethane	0.764	0.842	-10.2	99	0.00
61	T	1,2-Dibromoethane	0.722	0.842	-16.6	99	0.00
62	T	Butyl Acetate	1.658	1.878	-13.3	100	0.00
63	T	n-Octane	0.663	0.799	-20.5	100	0.00
64	T	Tetrachloroethene	0.774	0.895	-15.6	99	0.00
65	T	Chlorobenzene	1.972	2.360	-19.7	100	0.00
66	T	Ethylbenzene	2.953	3.642	-23.3	102	0.00
67	T	m- & p-Xylene	1.931	2.370	-22.7	101	0.00
68	T	Bromoform	0.448	0.440	1.8	102	0.00
69	T	Styrene	1.821	2.052	-12.7	97	0.00
70	T	o-Xylene	2.049	2.491	-21.6	101	0.00
71	T	n-Nonane	1.495	1.816	-21.5	101	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	1.043	-25.8	99	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.847	1.7	91	0.00
74	T	Cumene	3.030	3.606	-19.0	100	0.00
75	T	alpha-Pinene	1.397	1.625	-16.3	98	0.00
76	T	n-Propylbenzene	3.446	4.188	-21.5	100	0.00
77	T	3-Ethyltoluene	3.117	3.715	-19.2	101	0.00
78	T	4-Ethyltoluene	2.966	3.482	-17.4	100	0.00
79	T	1,3,5-Trimethylbenzene	2.597	3.059	-17.8	100	0.00
80	T	alpha-Methylstyrene	1.387	1.446	-4.3	91	0.00
81	T	2-Ethyltoluene	3.161	3.772	-19.3	101	0.00
82	T	1,2,4-Trimethylbenzene	2.418	3.052	-26.2	102	0.00
83	T	n-Decane	1.567	1.899	-21.2	100	0.00
84	T	Benzyl Chloride	1.765	1.834	-3.9	96	0.00
85	T	1,3-Dichlorobenzene	1.656	1.914	-15.6	100	0.00
86	T	1,4-Dichlorobenzene	1.652	1.924	-16.5	101	0.00
87	T	sec-Butylbenzene	3.318	4.012	-20.9	100	0.00
88	T	p-Isopropyltoluene	2.879	3.518	-22.2	100	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.936	-22.6	100	0.00
90	T	1,2-Dichlorobenzene	1.553	1.831	-17.9	101	0.00
91	T	d-Limonene	0.778	0.876	-12.6	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.466	2.5	97	0.00
93	T	n-Undecane	1.580	1.757	-11.2	92	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.263	-8.7	89	0.00
95	T	Naphthalene	3.479	3.435	1.3	87	0.00
96	T	n-Dodecane	1.406	1.235	12.2	76	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.406	-1.0	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Em 10/3/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280717.D
Acq On : 28 Sep 2007 11:17 pm
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 08:08:29 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	90	0.00
2	T	Propene	1.449	1.381	4.7	98	0.00
3	T	Dichlorodifluoromethane	2.218	2.116	4.6	97	0.00
4	T	Chloromethane	2.237	2.246	-0.4	97	0.00
5	T	Freon 114	1.038	1.013	2.4	98	0.00
6	T	Vinyl Chloride	1.163	1.186	-2.0	99	0.00
7	T	1,3-Butadiene	0.866	0.961	-11.0	100	0.00
8	T	Bromomethane	1.037	1.078	-4.0	99	0.00
9	T	Chloroethane	0.935	0.952	-1.8	97	0.00
10	T	Ethanol	0.909	0.989	-8.8	97	0.00
11	T	Acetonitrile	2.363	2.492	-5.5	96	0.00
12	T	Acrolein	0.721	0.783	-8.6	96	0.00
13	T	Acetone	1.019	1.016	0.3	98	0.00
14	T	Trichlorofluoromethane	1.731	1.757	-1.5	97	0.00
15	T	Isopropanol	3.202	3.583	-11.9	95	0.00
16	T	Acrylonitrile	1.745	1.936	-10.9	97	0.00
17	T	1,1-Dichloroethene	1.076	1.094	-1.7	97	0.00
18	T	tert-Butanol	2.587	2.705	-4.6	96	0.00
19	T	Methylene Chloride	1.185	1.125	5.1	97	0.00
20	T	Allyl Chloride	1.685	1.904	-13.0	96	0.00
21	T	Trichlorotrifluoroethane	1.125	1.163	-3.4	97	0.00
22	T	Carbon Disulfide	4.169	4.320	-3.6	97	0.00
23	T	trans-1,2-Dichloroethene	1.727	1.784	-3.3	96	0.00
24	T	1,1-Dichloroethane	1.848	1.816	1.7	96	0.00
25	T	Methyl tert-Butyl Ether	2.746	2.827	-2.9	97	0.00
26	T	Vinyl Acetate	0.192	0.219	-14.1	91	0.00
27	T	2-Butanone	0.691	0.718	-3.9	96	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.580	-0.6	96	0.00
29	T	Diisopropyl Ether	0.824	0.872	-5.8	97	0.00
30	T	Ethyl Acetate	0.400	0.449	-12.2	101	0.00
31	T	n-Hexane	2.123	2.264	-6.6	98	0.00
32	T	Chloroform	1.515	1.470	3.0	96	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.215	1.3	90	0.00
34	T	Tetrahydrofuran	0.661	0.721	-9.1	97	0.00
35	T	Ethyl tert-Butyl Ether	1.196	1.265	-5.8	97	0.00
36	T	1,2-Dichloroethane	1.473	1.543	-4.8	96	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	90	0.00
38	T	1,1,1-Trichloroethane	0.389	0.404	-3.9	97	0.00
39	T	Isopropyl Acetate	0.174	0.188	-8.0	97	0.00
40	T	1-Butanol	0.244	0.299	-22.5	98	0.00
41	T	Benzene	0.978	0.959	1.9	97	0.00
42	T	Carbon Tetrachloride	0.386	0.416	-7.8	96	0.00
43	T	Cyclohexane	0.369	0.377	-2.2	97	0.00
44	T	tert-Amyl Methyl Ether	0.623	0.662	-6.3	97	0.00
45	T	1,2-Dichloropropane	0.278	0.282	-1.4	97	0.00
46	T	Bromodichloromethane	0.279	0.302	-8.2	97	0.00
47	T	Trichloroethene	0.318	0.322	-1.3	97	0.00
48	T	1,4-Dioxane	0.169	0.188	-11.2	97	0.00
49	T	Isooctane	1.267	1.337	-5.5	97	0.00
50	T	Methyl Methacrylate	0.102	0.119	-16.7	97	0.00
51	T	n-Heptane	0.240	0.250	-4.2	96	0.00

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10/1/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_09\28\
Data File : 09280717.D
Acq On : 28 Sep 2007 11:17 pm
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 08:08:29 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.362	-7.1	96	0.00
53	T	4-Methyl-2-pentanone	0.262	0.289	-10.3	96	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.339	-10.8	96	0.00
55	T	1,1,2-Trichloroethane	0.243	0.254	-4.5	96	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	89	0.00
57	S	Toluene-d8 (SS2)	2.489	2.489	0.0	89	0.00
58	T	Toluene	2.759	2.785	-0.9	96	0.00
59	T	2-Hexanone	1.694	1.954	-15.3	95	0.00
60	T	Dibromochloromethane	0.764	0.909	-19.0	96	0.00
61	T	1,2-Dibromoethane	0.722	0.811	-12.3	96	0.00
62	T	Butyl Acetate	1.658	1.950	-17.6	93	0.00
63	T	n-Octane	0.663	0.724	-9.2	96	0.00
64	T	Tetrachloroethene	0.774	0.818	-5.7	96	0.00
65	T	Chlorobenzene	1.972	2.016	-2.2	97	0.00
66	T	Ethylbenzene	2.953	3.094	-4.8	96	0.00
67	T	m- & p-Xylene	1.931	2.019	-4.6	97	0.00
68	T	Bromoform	0.448	0.549	-22.5	96	0.00
69	T	Styrene	1.821	2.102	-15.4	96	0.00
70	T	o-Xylene	2.049	2.173	-6.1	96	0.00
71	T	n-Nonane	1.495	1.673	-11.9	96	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	0.948	-14.4	98	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.880	-2.1	89	0.00
74	T	Cumene	3.030	3.215	-6.1	96	0.00
75	T	alpha-Pinene	1.397	1.557	-11.5	96	0.00
76	T	n-Propylbenzene	3.446	3.722	-8.0	97	0.00
77	T	3-Ethyltoluene	3.117	3.398	-9.0	96	0.00
78	T	4-Ethyltoluene	2.966	3.263	-10.0	97	0.00
79	T	1,3,5-Trimethylbenzene	2.597	2.828	-8.9	97	0.00
80	T	alpha-Methylstyrene	1.387	1.727	-24.5	97	0.00
81	T	2-Ethyltoluene	3.161	3.482	-10.2	97	0.00
82	T	1,2,4-Trimethylbenzene	2.418	2.637	-9.1	97	0.00
83	T	n-Decane	1.567	1.791	-14.3	97	0.00
84	T	Benzyl Chloride	1.765	2.290	-29.7	95	0.00
85	T	1,3-Dichlorobenzene	1.656	1.886	-13.9	97	0.00
86	T	1,4-Dichlorobenzene	1.652	1.849	-11.9	97	0.00
87	T	sec-Butylbenzene	3.318	3.727	-12.3	97	0.00
88	T	p-Isopropyltoluene	2.879	3.260	-13.2	97	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.681	-11.9	97	0.00
90	T	1,2-Dichlorobenzene	1.553	1.761	-13.4	98	0.00
91	T	d-Limonene	0.778	0.912	-17.2	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.603	-26.2	102	0.00
93	T	n-Undecane	1.580	1.794	-13.5	98	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.309	-27.7	107	0.00
95	T	Naphthalene	3.479	4.489	-29.0	112	0.00
96	T	n-Dodecane	1.406	1.718	-22.2	101	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.467	-16.2	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010701.D
Acq On : 1 Oct 2007 8:08 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 08:37:05 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	96	0.00
2	T	Propene	1.449	1.372	5.3	104	-0.01
3	T	Dichlorodifluoromethane	2.218	2.105	5.1	103	0.00
4	T	Chloromethane	2.237	2.302	-2.9	106	-0.01
5	T	Freon 114	1.038	1.050	-1.2	109	0.00
6	T	Vinyl Chloride	1.163	1.362	-17.1	121	0.00
7	T	1,3-Butadiene	0.866	1.100	-27.0	122	0.00
8	T	Bromomethane	1.037	0.794	23.4	78	0.00
9	T	Chloroethane	0.935	0.964	-3.1	105	0.00
10	T	Ethanol	0.909	1.021	-12.3	107	0.00
11	T	Acetonitrile	2.363	2.535	-7.3	105	0.00
12	T	Acrolein	0.721	0.813	-12.8	107	0.00
13	T	Acetone	1.019	1.050	-3.0	109	0.00
14	T	Trichlorofluoromethane	1.731	1.843	-6.5	109	0.00
15	T	Isopropanol	3.202	3.660	-14.3	104	0.00
16	T	Acrylonitrile	1.745	1.947	-11.6	104	0.00
17	T	1,1-Dichloroethene	1.076	1.114	-3.5	105	0.00
18	T	tert-Butanol	2.587	2.981	-15.2	114	0.00
19	T	Methylene Chloride	1.185	1.139	3.9	105	0.00
20	T	Allyl Chloride	1.685	1.941	-15.2	104	0.00
21	T	Trichlorotrifluoroethane	1.125	1.156	-2.8	103	0.00
22	T	Carbon Disulfide	4.169	4.392	-5.3	105	0.00
23	T	trans-1,2-Dichloroethene	1.727	1.808	-4.7	104	0.00
24	T	1,1-Dichloroethane	1.848	1.891	-2.3	107	0.00
25	T	Methyl tert-Butyl Ether	2.746	2.926	-6.6	108	0.00
26	T	Vinyl Acetate	0.192	0.209	-8.9	93	0.00
27	T	2-Butanone	0.691	0.735	-6.4	105	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.598	-1.8	104	0.00
29	T	Diisopropyl Ether	0.824	0.865	-5.0	103	0.00
30	T	Ethyl Acetate	0.400	0.446	-11.5	107	0.00
31	T	n-Hexane	2.123	2.192	-3.3	101	0.00
32	T	Chloroform	1.515	1.510	0.3	106	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.242	-0.9	98	0.00
34	T	Tetrahydrofuran	0.661	0.745	-12.7	107	0.00
35	T	Ethyl tert-Butyl Ether	1.196	1.268	-6.0	103	0.00
36	T	1,2-Dichloroethane	1.473	1.540	-4.5	103	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	96	0.00
38	T	1,1,1-Trichloroethane	0.389	0.401	-3.1	102	0.00
39	T	Isopropyl Acetate	0.174	0.188	-8.0	103	0.00
40	T	1-Butanol	0.244	0.305	-25.0	106	0.00
41	T	Benzene	0.978	0.956	2.2	103	0.00
42	T	Carbon Tetrachloride	0.386	0.409	-6.0	101	0.00
43	T	Cyclohexane	0.369	0.372	-0.8	102	0.00
44	T	tert-Amyl Methyl Ether	0.623	0.655	-5.1	103	0.00
45	T	1,2-Dichloropropane	0.278	0.280	-0.7	102	0.00
46	T	Bromodichloromethane	0.279	0.300	-7.5	102	0.00
47	T	Trichloroethene	0.318	0.315	0.9	102	0.00
48	T	1,4-Dioxane	0.169	0.186	-10.1	102	0.00
49	T	Isooctane	1.267	1.311	-3.5	102	0.00
50	T	Methyl Methacrylate	0.102	0.115	-12.7	100	0.00
51	T	n-Heptane	0.240	0.249	-3.8	102	0.00

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EM 10/11/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010701.D
Acq On : 1 Oct 2007 8:08 am
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 08:37:05 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.364	-7.7	103	0.00
53	T	4-Methyl-2-pentanone	0.262	0.284	-8.4	101	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.338	-10.5	102	0.00
55	T	1,1,2-Trichloroethane	0.243	0.250	-2.9	101	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	93	0.00
57	S	Toluene-d8 (SS2)	2.489	2.522	-1.3	95	0.00
58	T	Toluene	2.759	2.790	-1.1	101	0.00
59	T	2-Hexanone	1.694	1.926	-13.7	98	0.00
60	T	Dibromochloromethane	0.764	0.910	-19.1	101	0.00
61	T	1,2-Dibromoethane	0.722	0.818	-13.3	102	0.00
62	T	Butyl Acetate	1.658	1.882	-13.5	95	0.00
63	T	n-Octane	0.663	0.722	-8.9	101	0.00
64	T	Tetrachloroethene	0.774	0.825	-6.6	101	0.00
65	T	Chlorobenzene	1.972	2.012	-2.0	101	0.00
66	T	Ethylbenzene	2.953	3.089	-4.6	101	0.00
67	T	m- & p-Xylene	1.931	2.007	-3.9	101	0.00
68	T	Bromoform	0.448	0.548	-22.3	101	0.00
69	T	Styrene	1.821	2.093	-14.9	101	0.00
70	T	o-Xylene	2.049	2.148	-4.8	100	0.00
71	T	n-Nonane	1.495	1.641	-9.8	99	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	0.941	-13.5	102	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.885	-2.7	94	0.00
74	T	Cumene	3.030	3.181	-5.0	100	0.00
75	T	alpha-Pinene	1.397	1.553	-11.2	101	0.00
76	T	n-Propylbenzene	3.446	3.694	-7.2	101	0.00
77	T	3-Ethyltoluene	3.117	3.447	-10.6	103	0.00
78	T	4-Ethyltoluene	2.966	3.125	-5.4	98	0.00
79	T	1,3,5-Trimethylbenzene	2.597	2.782	-7.1	100	0.00
80	T	alpha-Methylstyrene	1.387	1.703	-22.8	101	0.00
81	T	2-Ethyltoluene	3.161	3.420	-8.2	100	0.00
82	T	1,2,4-Trimethylbenzene	2.418	2.594	-7.3	100	0.00
83	T	n-Decane	1.567	1.756	-12.1	99	0.00
84	T	Benzyl Chloride	1.765	2.264	-28.3	99	0.00
85	T	1,3-Dichlorobenzene	1.656	1.870	-12.9	101	0.00
86	T	1,4-Dichlorobenzene	1.652	1.836	-11.1	102	0.00
87	T	sec-Butylbenzene	3.318	3.645	-9.9	100	0.00
88	T	p-Isopropyltoluene	2.879	3.221	-11.9	101	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.638	-10.1	101	0.00
90	T	1,2-Dichlorobenzene	1.553	1.745	-12.4	102	0.00
91	T	d-Limonene	0.778	0.896	-15.2	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.616	-28.9	109	0.00
93	T	n-Undecane	1.580	1.777	-12.5	102	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.323	-33.5#	117	0.00
95	T	Naphthalene	3.479	4.638	-33.3#	122	0.00
96	T	n-Dodecane	1.406	1.717	-22.1	106	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.484	-20.4	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EM 10/1/7 DH 10/2/07 59

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010704.D
Acq On : 1 Oct 2007 10:10 am
Operator : WA/EM
Sample : 1ng CRQL STD
Misc : S20-09260712/S20-09260711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:04:03 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	90	-0.02
2	T	Propene	1.449	1.669	-15.2	97	0.02
3	T	Dichlorodifluoromethane	2.218	2.589	-16.7	96	0.02
4	T	Chloromethane	2.237	2.579	-15.3	95	0.02
5	T	Freon 114	1.038	1.216	-17.1	97	0.01
6	T	Vinyl Chloride	1.163	1.364	-17.3	95	0.01
7	T	1,3-Butadiene	0.866	1.068	-23.3	100	0.01
8	T	Bromomethane	1.037	1.248	-20.3	100	0.02
9	T	Chloroethane	0.935	1.090	-16.6	96	0.02
10	T	Ethanol	0.909	1.153	-26.8	114	0.00
11	T	Acetonitrile	2.363	2.971	-25.7	111	0.00
12	T	Acrolein	0.721	0.844	-17.1	105	0.01
13	T	Acetone	1.019	1.752	-71.9#	124	0.00
14	T	Trichlorofluoromethane	1.731	1.994	-15.2	101	0.00
15	T	Isopropanol	3.202	3.901	-21.8	98	-0.02
16	T	Acrylonitrile	1.745	1.960	-12.3	105	0.00
17	T	1,1-Dichloroethene	1.076	1.254	-16.5	99	0.00
18	T	tert-Butanol	2.587	3.021	-16.8	93	-0.02
19	T	Methylene Chloride	1.185	1.303	-10.0	96	0.00
20	T	Allyl Chloride	1.685	1.899	-12.7	98	0.00
21	T	Trichlorotrifluoroethane	1.125	1.243	-10.5	97	0.00
22	T	Carbon Disulfide	4.169	4.843	-16.2	96	0.01
23	T	trans-1,2-Dichloroethene	1.727	2.014	-16.6	98	-0.01
24	T	1,1-Dichloroethane	1.848	2.233	-20.8	99	-0.02
25	T	Methyl tert-Butyl Ether	2.746	3.154	-14.9	97	0.00
26	T	Vinyl Acetate	0.192	0.137	28.6	87	0.00
27	T	2-Butanone	0.691	0.828	-19.8	103	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.813	-15.5	98	-0.02
29	T	Diisopropyl Ether	0.824	1.025	-24.4	99	0.00
30	T	Ethyl Acetate	0.400	0.490	-22.5	99	0.00
31	T	n-Hexane	2.123	2.462	-16.0	96	0.00
32	T	Chloroform	1.515	1.811	-19.5	97	-0.02
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.287	-4.5	89	-0.02
34	T	Tetrahydrofuran	0.661	0.784	-18.6	98	0.00
35	T	Ethyl tert-Butyl Ether	1.196	1.350	-12.9	98	-0.01
36	T	1,2-Dichloroethane	1.473	1.667	-13.2	97	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	91	-0.02
38	T	1,1,1-Trichloroethane	0.389	0.423	-8.7	98	-0.01
39	T	Isopropyl Acetate	0.174	0.178	-2.3	91	0.00
40	T	1-Butanol	0.244	0.307	-25.8	141	0.06
41	T	Benzene	0.978	1.090	-11.5	97	-0.01
42	T	Carbon Tetrachloride	0.386	0.409	-6.0	98	-0.02
43	T	Cyclohexane	0.369	0.434	-17.6	97	-0.01
44	T	tert-Amyl Methyl Ether	0.623	0.684	-9.8	98	0.00
45	T	1,2-Dichloropropane	0.278	0.306	-10.1	96	0.00
46	T	Bromodichloromethane	0.279	0.322	-15.4	100	-0.01
47	T	Trichloroethene	0.318	0.361	-13.5	95	0.00
48	T	1,4-Dioxane	0.169	0.215	-27.2	99	0.00
49	T	Isooctane	1.267	1.519	-19.9	97	-0.01
50	T	Methyl Methacrylate	0.102	0.099	2.9	92	0.00
51	T	n-Heptane	0.240	0.290	-20.8	98	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010704.D
Acq On : 1 Oct 2007 10:10 am
Operator : WA/EM
Sample : 1ng CRQL STD
Misc : S20-09260712/S20-09260711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 01 11:04:03 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.392	-16.0	100	0.00
53	T	4-Methyl-2-pentanone	0.262	0.286	-9.2	96	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.321	-4.9	103	0.00
55	T	1,1,2-Trichloroethane	0.243	0.275	-13.2	96	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.489	2.471	0.7	91	0.00
58	T	Toluene	2.759	3.247	-17.7	98	-0.01
59	T	2-Hexanone	1.694	1.935	-14.2	99	0.00
60	T	Dibromochloromethane	0.764	0.841	-10.1	99	0.00
61	T	1,2-Dibromoethane	0.722	0.823	-14.0	97	0.00
62	T	Butyl Acetate	1.658	1.828	-10.3	97	0.00
63	T	n-Octane	0.663	0.770	-16.1	97	0.00
64	T	Tetrachloroethene	0.774	0.920	-18.9	102	0.00
65	T	Chlorobenzene	1.972	2.290	-16.1	97	0.00
66	T	Ethylbenzene	2.953	3.539	-19.8	99	0.00
67	T	m- & p-Xylene	1.931	2.289	-18.5	98	0.00
68	T	Bromoform	0.448	0.436	2.7	101	0.00
69	T	Styrene	1.821	2.064	-13.3	98	0.00
70	T	o-Xylene	2.049	2.451	-19.6	99	0.00
71	T	n-Nonane	1.495	1.763	-17.9	98	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	1.008	-21.6	95	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.844	2.1	91	0.00
74	T	Cumene	3.030	3.537	-16.7	98	0.00
75	T	alpha-Pinene	1.397	1.579	-13.0	95	0.00
76	T	n-Propylbenzene	3.446	4.094	-18.8	98	0.00
77	T	3-Ethyltoluene	3.117	3.660	-17.4	100	0.00
78	T	4-Ethyltoluene	2.966	3.467	-16.9	100	0.00
79	T	1,3,5-Trimethylbenzene	2.597	3.029	-16.6	99	0.00
80	T	alpha-Methylstyrene	1.387	1.369	1.3	87	0.00
81	T	2-Ethyltoluene	3.161	3.709	-17.3	100	0.00
82	T	1,2,4-Trimethylbenzene	2.418	2.991	-23.7	100	0.00
83	T	n-Decane	1.567	1.835	-17.1	96	0.00
84	T	Benzyl Chloride	1.765	1.862	-5.5	97	0.00
85	T	1,3-Dichlorobenzene	1.656	1.910	-15.3	100	0.00
86	T	1,4-Dichlorobenzene	1.652	1.912	-15.7	100	0.00
87	T	sec-Butylbenzene	3.318	4.011	-20.9	100	0.00
88	T	p-Isopropyltoluene	2.879	3.446	-19.7	98	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.900	-21.1	98	0.00
90	T	1,2-Dichlorobenzene	1.553	1.794	-15.5	99	0.00
91	T	d-Limonene	0.778	0.828	-6.4	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.490	-2.5	103	0.00
93	T	n-Undecane	1.580	1.914	-21.1	100	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.323	-33.5#	110	0.00
95	T	Naphthalene	3.479	4.156	-19.5	106	0.00
96	T	n-Dodecane	1.406	1.689	-20.1	103	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.491	-22.1	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Em 10/3/7

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Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010718.D
Acq On : 1 Oct 2007 7:16 pm
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 02 08:16:02 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	91	0.00
2	T	Propene	1.449	1.312	9.5	95	0.00
3	T	Dichlorodifluoromethane	2.218	2.048	7.7	96	0.00
4	T	Chloromethane	2.237	2.147	4.0	94	0.00
5	T	Freon 114	1.038	0.962	7.3	95	0.00
6	T	Vinyl Chloride	1.163	1.110	4.6	94	0.00
7	T	1,3-Butadiene	0.866	0.934	-7.9	98	0.00
8	T	Bromomethane	1.037	1.044	-0.7	97	0.00
9	T	Chloroethane	0.935	0.919	1.7	95	0.00
10	T	Ethanol	0.909	0.963	-5.9	95	0.00
11	T	Acetonitrile	2.363	2.388	-1.1	94	0.00
12	T	Acrolein	0.721	0.755	-4.7	94	0.00
13	T	Acetone	1.019	0.995	2.4	98	0.00
14	T	Trichlorofluoromethane	1.731	1.733	-0.1	97	0.00
15	T	Isopropanol	3.202	3.460	-8.1	93	0.00
16	T	Acrylonitrile	1.745	1.889	-8.3	96	0.00
17	T	1,1-Dichloroethene	1.076	1.079	-0.3	97	0.00
18	T	tert-Butanol	2.587	2.598	-0.4	94	0.00
19	T	Methylene Chloride	1.185	1.101	7.1	96	0.00
20	T	Allyl Chloride	1.685	1.887	-12.0	96	0.00
21	T	Trichlorotrifluoroethane	1.125	1.140	-1.3	96	0.00
22	T	Carbon Disulfide	4.169	4.287	-2.8	97	0.00
23	T	trans-1,2-Dichloroethene	1.727	1.756	-1.7	96	0.00
24	T	1,1-Dichloroethane	1.848	1.820	1.5	98	0.00
25	T	Methyl tert-Butyl Ether	2.746	2.778	-1.2	97	0.00
26	T	Vinyl Acetate	0.192	0.187	2.6	79	0.00
27	T	2-Butanone	0.691	0.719	-4.1	98	0.00
28	T	cis-1,2-Dichloroethene	1.570	1.555	1.0	96	0.00
29	T	Diisopropyl Ether	0.824	0.859	-4.2	97	0.00
30	T	Ethyl Acetate	0.400	0.433	-8.2	98	0.00
31	T	n-Hexane	2.123	2.221	-4.6	97	0.00
32	T	Chloroform	1.515	1.453	4.1	97	0.00
33	S	1,2-Dichloroethane-d4(SS1)	1.231	1.199	2.6	90	0.00
34	T	Tetrahydrofuran	0.661	0.716	-8.3	98	0.00
35	T	Ethyl tert-Butyl Ether	1.196	1.248	-4.3	97	0.00
36	T	1,2-Dichloroethane	1.473	1.515	-2.9	96	0.00
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	92	0.00
38	T	1,1,1-Trichloroethane	0.389	0.396	-1.8	96	0.00
39	T	Isopropyl Acetate	0.174	0.184	-5.7	97	0.00
40	T	1-Butanol	0.244	0.297	-21.7	99	0.00
41	T	Benzene	0.978	0.949	3.0	98	0.00
42	T	Carbon Tetrachloride	0.386	0.411	-6.5	97	0.00
43	T	Cyclohexane	0.369	0.375	-1.6	98	0.00
44	T	tert-Amyl Methyl Ether	0.623	0.652	-4.7	98	0.00
45	T	1,2-Dichloropropane	0.278	0.279	-0.4	97	0.00
46	T	Bromodichloromethane	0.279	0.299	-7.2	97	0.00
47	T	Trichloroethene	0.318	0.319	-0.3	98	0.00
48	T	1,4-Dioxane	0.169	0.188	-11.2	99	0.00
49	T	Isooctane	1.267	1.321	-4.3	98	0.00
50	T	Methyl Methacrylate	0.102	0.117	-14.7	98	0.00
51	T	n-Heptane	0.240	0.250	-4.2	98	0.00

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EM 10/2/7

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2007_10\01\
Data File : 10010718.D
Acq On : 1 Oct 2007 7:16 pm
Operator : WA/EM
Sample : 25ng TO-15 CCV STD
Misc : S20-09260712/S20-09250712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 02 08:16:02 2007
Quant Method : J:\MS09\Methods\R9092507.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5973 MSD
QLast Update : Wed Sep 26 15:35:45 2007
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	cis-1,3-Dichloropropene	0.338	0.361	-6.8	98	0.00
53	T	4-Methyl-2-pentanone	0.262	0.286	-9.2	97	0.00
54	T	trans-1,3-Dichloropropene	0.306	0.339	-10.8	97	0.00
55	T	1,1,2-Trichloroethane	0.243	0.253	-4.1	98	0.00
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	90	0.00
57	S	Toluene-d8 (SS2)	2.489	2.495	-0.2	91	0.00
58	T	Toluene	2.759	2.790	-1.1	98	0.00
59	T	2-Hexanone	1.694	1.925	-13.6	95	0.00
60	T	Dibromochloromethane	0.764	0.901	-17.9	97	0.00
61	T	1,2-Dibromoethane	0.722	0.806	-11.6	97	0.00
62	T	Butyl Acetate	1.658	1.865	-12.5	91	0.00
63	T	n-Octane	0.663	0.720	-8.6	98	0.00
64	T	Tetrachloroethene	0.774	0.816	-5.4	97	0.00
65	T	Chlorobenzene	1.972	2.006	-1.7	98	0.00
66	T	Ethylbenzene	2.953	3.078	-4.2	98	0.00
67	T	m- & p-Xylene	1.931	2.007	-3.9	98	0.00
68	T	Bromoform	0.448	0.550	-22.8	98	0.00
69	T	Styrene	1.821	2.099	-15.3	98	0.00
70	T	o-Xylene	2.049	2.164	-5.6	98	0.00
71	T	n-Nonane	1.495	1.639	-9.6	96	0.00
72	T	1,1,2,2-Tetrachloroethane	0.829	0.942	-13.6	99	0.00
73	S	Bromofluorobenzene (SS3)	0.862	0.877	-1.7	90	0.00
74	T	Cumene	3.030	3.195	-5.4	98	0.00
75	T	alpha-Pinene	1.397	1.547	-10.7	97	0.00
76	T	n-Propylbenzene	3.446	3.696	-7.3	98	0.00
77	T	3-Ethyltoluene	3.117	3.378	-8.4	97	0.00
78	T	4-Ethyltoluene	2.966	3.246	-9.4	99	0.00
79	T	1,3,5-Trimethylbenzene	2.597	2.820	-8.6	98	0.00
80	T	alpha-Methylstyrene	1.387	1.715	-23.6	98	0.00
81	T	2-Ethyltoluene	3.161	3.450	-9.1	98	0.00
82	T	1,2,4-Trimethylbenzene	2.418	2.628	-8.7	98	0.00
83	T	n-Decane	1.567	1.778	-13.5	98	0.00
84	T	Benzyl Chloride	1.765	2.324	-31.7#	98	0.00
85	T	1,3-Dichlorobenzene	1.656	1.884	-13.8	99	0.00
86	T	1,4-Dichlorobenzene	1.652	1.858	-12.5	100	0.00
87	T	sec-Butylbenzene	3.318	3.693	-11.3	98	0.00
88	T	p-Isopropyltoluene	2.879	3.240	-12.5	98	0.00
89	T	1,2,3-Trimethylbenzene	2.395	2.661	-11.1	98	0.00
90	T	1,2-Dichlorobenzene	1.553	1.751	-12.7	99	0.00
91	T	d-Limonene	0.778	0.905	-16.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.478	0.604	-26.4	104	0.00
93	T	n-Undecane	1.580	1.773	-12.2	98	0.00
94	T	1,2,4-Trichlorobenzene	0.242	0.313	-29.3	110	0.00
95	T	Naphthalene	3.479	4.604	-32.3#	117	0.00
96	T	n-Dodecane	1.406	1.707	-21.4	103	0.00
97	T	Hexachloro-1,3-butadiene	0.402	0.475	-18.2	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 09280701.D
Date Analyzed: 9/28/07
Time Analyzed: 11:54

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	355427	8.19	1548207	10.10	600557	14.99
	Upper Limit	497598	8.52	2167490	10.43	840780	15.32
	Lower Limit	213256	7.86	928924	9.77	360334	14.66
	Client Sample ID						
01	Method Blank	336191	8.18	1583322	10.10	611564	14.99
02	WDI-IBM-49-9-16-07	337037	8.18	1574463	10.10	616602	14.99
03	WDI-IBM-49-9-16-07-SC	331236	8.17	1561657	10.09	610265	14.99
04	WDI-IBM-03B-9-16-07	346706	8.19	1577373	10.10	626508	14.99
05	Lab Control Sample	379567	8.20	1639504	10.10	623885	14.99
06	Duplicate Lab Control Sample	380462	8.19	1663353	10.10	631711	14.99
07	WDI-IBM-41-9-16-07	375102	8.19	1694309	10.10	682173	14.99
08	WDI-IBM-28-9-16-07	357344	8.18	1651050	10.09	643012	14.99
09	WDI-IBM-28-9-16-07 (Lab Duplicate)	353538	8.18	1657429	10.10	643372	14.99
10	WDI-IBM-22-9-18-07	372735	8.19	1760500	10.10	657588	14.99
11	WDI-IBM-44-9-16-07	366895	8.20	1675215	10.10	680000	14.99
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Verified by: Re Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Internal Standard Area and RT Summary

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 10010701.D
Date Analyzed: 10/1/07
Time Analyzed: 08:08

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	409108	8.20	1781645	10.11	666308	14.99
	Upper Limit	572751	8.53	2494303	10.44	932831	15.32
	Lower Limit	245465	7.87	1068987	9.78	399785	14.66
	Client Sample ID						
01	Method Blank	365156	8.18	1710520	10.10	649278	14.99
02	WDI-IBM-44-9-16-07 (Dilution)	372147	8.18	1690798	10.10	662145	14.99
03	Lab Control Sample	376128	8.19	1641313	10.10	620419	14.99
04	Duplicate Lab Control Sample	381050	8.19	1676485	10.10	637906	14.99
05							
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20							

IS1 (BCM) = Bromochloromethane
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Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Verified by: Re Date: 10/4/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	9/25/07 8:15	09250701.D	5ng TO-15 CCV STD	S20-09100701/S15-08240709	WA/EM	1	
2	9/25/07 9:14	09250702.D	5ng TO-15 CCV STD	S20-09100701/S15-08240713	WA/EM	1	
3	9/25/07 10:08	09250703.D	Blank (100ml)	S20-09100701	WA/EM	1	
4	9/25/07 10:46	09250704.D	CAS QC CAN (1000ml)	AC01408	WA/EM	13	Pass
5	9/25/07 11:37	09250705.D	CAS QC CAN (1000ml)	AC00209	WA/EM	14	Pass
6	9/25/07 12:37	09250706.D	0.1ng std check	S20-09100701/S20-09250706	WA/EM	16	
7	9/25/07 13:32	09250707.D	0.5ng std check	S20-09100701/S2009250709	WA/EM	1	
8	9/25/07 14:31	09250708.D	0.5ng std check	S20-09100701/S2009250710	WA/EM	1	
9	9/25/07 15:06	09250709.D	25ng std check	S20-09100701/S2009250712	WA/EM	1	
10	9/25/07 15:57	09250710.D	25ng TO-15 BFB	S20-09100701	WA/EM	1	Pass
11	9/25/07 16:32	09250711.D	0.1ng TO-15 ICAL STD	S20-09100701/S20-09250706	WA/EM	16	ICAL RANGES: ~~10ng~~ 0.5-100ng → Acrolein, IPA, CS2,
12	9/25/07 17:07	09250712.D	0.5ng TO-15 ICAL STD	S20-09100701/S20-09250710	WA/EM	1	T-Butanol, Ethyl Acetate, n-Hexane, Isopropyl Acetate, 1-Butanol,
13	9/25/07 17:42	09250713.D	1.0ng TO-15 ICAL STD	S20-09100701/S20-09250710	WA/EM	1	Cyclohexane, Methyl Methacrylate, n-Heptane,
14	9/25/07 18:16	09250714.D	5.0ng TO-15 ICAL STD	S20-09100701/S20-09250710	WA/EM	1	cis/trans 1,3 dichloropropene, 4-Methyl-2 pentanone,
15	9/25/07 18:51	09250715.D	25ng TO-15 ICAL STD	S20-09100701/S20-09250712	WA/EM	1	n-Octane, Bromoform, DBCP.
16	9/25/07 19:26	09250716.D	50ng TO-15 ICAL STD	S20-09100701/S20-09250712	WA/EM	1	1.0-100ng → Acetone, VA.
17	9/25/07 20:01	09250717.D	100ng TO-15 ICAL STD	S20-09100701/S20-09250712	WA/EM	1	Good ICAL R9092507.M
18	9/26/07 8:34	09250718.D	25ng TO-15 ICV STD	S20-09100701/S20-09250718	WA/EM	2	Case File
19	9/26/07 9:15	09250719.D	25ng TO-15 ICV STD	S20-09100701/S20-09250718	WA/EM	2	Pass all cmpds.
20	9/26/07 9:57	09250720.D	25ng LCS STD check	S20-09100701/S20-09250719	WA/EM	2	
21	9/26/07 11:03	09250721.D	CAS QC CAN/COA/FC (1000ml)	SC00845/6V-.5-132/AVG00357	WA/EM	13	Failed
22	9/26/07 11:41	09250722.D	CAS QC CAN/COA/FC (1000ml)	SC00838/6V-.5-138/AVG00397	WA/EM	14	↓
23	9/26/07 12:21	09250723.D	CAS QC CAN/COA/FC (1000ml)	SC00865/6V-.5-175/AVG00091	WA/EM	15	Pass

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	9/28/07 11:54	09280701.D	25ng TO-15 CCV STD	S20-09260712/S2009250712	WA/EM	1	Pass
2	9/28/07 12:47	09280702.D	TO-15 Method Blank (1000ml)	S20-09260712	WA/EM	1	Pass as MB
3	9/28/07 13:36	09280703.D	P2702919-002 (1000ml)	TRC WDI-IBM-49-9-16-07 (-2.6,3.5)	WA/EM	4	
4	9/28/07 14:16	09280704.D	P2702919-003 (1000ml)	TRC WDI-IBM-49-9-16-07-SC (-2.3,3.5)	WA/EM	5	
5	9/28/07 14:51	09280705.D	1ng CRQL STD	S20-09260712/S20-09260711	WA/EM	1	Case, File
6	9/28/07 15:32	09280706.D	P2702919-001 (1000ml)	TRC WDI-IBM-03B-9-16-07 (-2.6,3.5)	WA/EM	2	
7	9/28/07 16:07	09280707.D	25ng TO-15 LCS STD	S20-09260712/S20-09260702	WA/EM	3	Pass
8	9/28/07 16:42	09280708.D	25ng TO-15 LCSD STD	S20-09260712/S20-09260702	WA/EM	3	Pass as LCSD
9	9/28/07 18:19	09280709.D	P2702919-004 (1000ml)	TRC WDI-IBM-41-9-16-07 (-4.7,3.5)	WA/EM	6	
10	9/28/07 18:58	09280710.D	P2702919-005 (1000ml)	TRC WDI-IBM-28-9-16-07 (-3.4,3.6)	WA/EM	7	
11	9/28/07 19:44	09280711.D	P2702919-005 dup (1000ml)	TRC WDI-IBM-28-9-16-07 (-3.4,3.6)	WA/EM	7	Pass as lab Dup.
12	9/28/07 20:22	09280712.D	P2702919-006 (1000ml)	TRC WDI-IBM-22-9-16-07 (0.3,3.9)	WA/EM	8	
13	9/28/07 20:57	09280713.D	P2702919-007 (350ml)	TRC WDI-IBM-44-9-16-07 (-5.8,3.7)	WA/EM	9	
14	9/28/07 21:32	09280714.D	P2702919-007 dup (350ml)	TRC WDI-IBM-44-9-16-07 (-5.8,3.7)	WA/EM	9	Case, File Dup.
15	9/28/07 22:07	09280715.D	1ng CRQL STD	S20-09260712/S20-09260711	WA/EM	1	↓
16	9/28/07 22:42	09280716.D	1ng CRQL STD	S20-09260712/S20-09260711	WA/EM	1	
17	9/28/07 23:17	09280717.D	25ng TO-15 CCV STD	S20-09260712/S20-09250712	WA/EM	1	Pass
18	9/28/07 23:52	09280718.D	std check	S20-09260712/S20-09250712	WA/EM	1	
19	9/29/07 0:27	09280719.D	Blank	(100ml)	WA/EM	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	10/1/07 8:08	10010701.D	25ng TO-15 CCV STD	S20-09260712/S20-09250712	WA/EM	1	Pass except 1,2,4 Trichlorobenzene
2	10/1/07 9:01	10010702.D	TO-15 Method Blank (1000ml)	S20-09260712	WA/EM	2	Pass Napithalene
3	10/1/07 9:35	10010703.D	P2702919-007 dil (100ml)	TRC WDI-IBM-44-9-16-07 (-5.8,3.7)	WA/EM	9	
4	10/1/07 10:10	10010704.D	1ng CRQL STD	S20-09260712/S20-09260711	WA/EM	1	
5	10/1/07 10:54	10010705.D	P2702948-001 (1000ml)	TRC WDI-IBM-42-9-19-07 (-3.2,3.7)	WA/EM	2	
6	10/1/07 11:34	10010706.D	P2702948-002 (1000ml)	TRC WDI-IBM-12-9-22-07 (-2.5,3.5)	WA/EM	4	
7	10/1/07 12:22	10010707.D	P2702948-002 dup (1000ml)	TRC WDI-IBM-12-9-22-07 (-2.5,3.5)	WA/EM	4	Pass as Lab Dup.
8	10/1/07 13:03	10010708.D	P2702948-003 (1000ml)	TRC WDI-IBM-12-9-22-07 (-2.5,3.5)	WA/EM	5	
9	10/1/07 13:40	10010709.D	P2702948-001 dil (400ml)	TRC WDI-IBM-42-9-19-07 (-3.2,3.7)	WA/EM	2	
10	10/1/07 14:18	10010710.D	P2702949-001 (1000ml)	TRC WDI-VW35-S-9-20-07 (-2.5,3.6)	WA/EM	6	
11	10/1/07 14:53	10010711.D	P2702949-002 (70ml)	TRC WDI-VW35-D-9-20-07 (-3.5,3.6)	WA/EM	7	
12	10/1/07 15:29	10010712.D	P2702949-004 (3.5ml)	TRC WDI-VW62-S-9-20-07 (-2.3,3.5)	WA/EM	1	Case, File
13	10/1/07 16:17	10010713.D	P2702949-003 (60ml)	TRC WDI-VW62-DAC-9-20-07 (-2.7,3.5)	WA/EM	4	
14	10/1/07 16:53	10010714.D	P2702949-004 (3.5ml)	TRC WDI-VW62-S-9-20-07 (-2.3,3.5)	WA/EM	1	Case, File
15	10/1/07 17:30	10010715.D	1ng CRQL STD	S20-09260712/S20-09260711	WA/EM	1	Case, File
16	10/1/07 18:05	10010716.D	25ng TO-15 LCS STD	S20-09260712/S20-09260702	WA/EM	3	Pass
17	10/1/07 18:41	10010717.D	25ng TO-15 LCSD STD	S20-09260712/S20-09260702	WA/EM	3	↓
18	10/1/07 19:16	10010718.D	25ng TO-15 CCV STD	S20-09260712/S20-09250712	WA/EM	1	↓
19	10/1/07 19:51	10010719.D	P2702937-001 (70ml)	[redacted]	WA/EM	8	Case, File
20	10/1/07 20:26	10010720.D	P2702937-002 (80ml)	[redacted]	WA/EM	9	↓
21	10/1/07 21:04	10010721.D	P2702937-003 (1000ml)	[redacted]	WA/EM	10	
22	10/1/07 21:40	10010722.D	P2702937-004 (300ml)	[redacted]	WA/EM	11	

	Date/Tim
23	10/1/07 22:
24	10/1/07 22
25	10/1/07 23
26	10/2/07 0:

	Date/Tir
1	10/2/07 8
2	10/2/07 8
3	10/2/07 9
4	10/2/07 1
5	10/2/07 1
6	10/2/07 1
7	10/2/07 1
8	10/2/07 1
9	10/2/07 1
10	10/2/07 1
11	10/2/07
12	10/2/07
13	10/2/07
14	10/2/07
15	10/2/07
16	10/2/07
17	10/2/07
18	10/2/07
19	10/2/07
20	10/2/07
21	10/2/07
22	10/2/07
23	10/2/07
24	10/3/0
25	10/3/0
26	10/3/0

	Date/
1	10/3/0
2	10/3/0
3	10/3/0
4	10/3/0
5	10/3/0
6	10/3/0
7	10/3/0
8	10/3/0
9	10/3/0

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-03B-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-001

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01243

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.6 Pf 1 = 3.5
Pi 2 = -1.8 Pf 2 = 3.5 Can D.F. = 2.12

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.053	ND	0.021	
106-93-4	1,2-Dibromoethane	ND	0.053	ND	0.0069	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-002

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01070

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -2.3 Pf 1 = 3.5

Can D.F. = 1.47

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.037	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.037	ND	0.0048	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rec Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-49-9-16-07-SC**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-003

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC01128

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -3.8 Pf 1 = 3.7

Can D.F. = 1.69

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.042	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.042	ND	0.0055	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-41-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-004

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00985

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -4.7 Pf 1 = 3.5

Can D.F. = 1.82

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.046	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.046	ND	0.0059	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-28-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-005

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00923

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 0.70 Liter(s)

Pi 1 = -3.4 Pf 1 = 3.6

Can D.F. = 1.62

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.058	ND	0.023	
106-93-4	1,2-Dibromoethane	ND	0.058	ND	0.0075	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 0.30 Liter(s)

Pi 1 = 0.3 Pf 1 = 3.9

Can D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.10	ND	0.040	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rc Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-22-9-18-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-006DUP

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00580

Date Collected: 9/18/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 0.30 Liter(s)

Pi 1 = 0.3 Pf 1 = 3.9

Can D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.10	ND	0.040	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RG Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **WDI-IBM-44-9-16-07**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P2702919-007

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:
Container ID: AC00998

Date Collected: 9/16/07
Date Received: 9/19/07
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 0.025 Liter(s)

Pi 1 = -5.8 Pf 1 = 3.5

Can D.F. = 2.04

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	2.0	ND	0.80	
106-93-4	1,2-Dibromoethane	ND	2.0	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: RC Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070927-MB

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/27/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	**Compound**	**Result µg/m³**	MRL µg/m³	**Result ppbV**	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.025	ND	0.0098	
106-93-4	1,2-Dibromoethane	ND	0.025	ND	0.0033	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Rcr Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Method Blank**
Client Project ID: **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-MB

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 9/28/07
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	**Compound**	**Result µg/m³**	MRL µg/m³	**Result ppbV**	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.025	ND	0.0098	
106-93-4	1,2-Dibromoethane	ND	0.025	ND	0.0033	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Ro Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Surrogate Spike Recovery Results

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Date Collected: 9/16 - 9/18/07
Date Received: 9/19/07
Date Analyzed: 9/27 - 9/28/07

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P070927-MB	**103**	80-120	**101**	80-120	**95**	80-120	
Method Blank	P070928-MB	**100**	80-120	**99**	80-120	**98**	80-120	
Lab Control Sample	P070927-LCS	**102**	80-120	**101**	80-120	**100**	80-120	
Lab Control Sample	P070928-LCS	**99**	80-120	**100**	80-120	**101**	80-120	
Duplicate Lab Control Sample	P070927-DLCS	**102**	80-120	**100**	80-120	**99**	80-120	
Duplicate Lab Control Sample	P070928-DLCS	**99**	80-120	**99**	80-120	**102**	80-120	
WDI-IBM-03B-9-16-07	P2702919-001	**99**	80-120	**103**	80-120	**101**	80-120	
WDI-IBM-49-9-16-07	P2702919-002	**98**	80-120	**101**	80-120	**100**	80-120	
WDI-IBM-49-9-16-07-SC	P2702919-003	**97**	80-120	**101**	80-120	**101**	80-120	
WDI-IBM-41-9-16-07	P2702919-004	**99**	80-120	**102**	80-120	**94**	80-120	
WDI-IBM-28-9-16-07	P2702919-005	**99**	80-120	**102**	80-120	**100**	80-120	
WDI-IBM-22-9-18-07	P2702919-006	**102**	80-120	**101**	80-120	**98**	80-120	
WDI-IBM-22-9-18-07	P2702919-006DUP	**101**	80-120	**100**	80-120	**100**	80-120	
WDI-IBM-44-9-16-07	P2702919-007	**103**	80-120	**101**	80-120	**100**	80-120	

Verified By: Rc Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070927-LCS, P070927-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/27/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	**% Recovery LCS**	**% Recovery DLCS**	CAS Acceptance Limits	**RPD**	RPD Limit %	**Data Qualifier**
Vinyl Chloride	495	493	501	**100**	**101**	65-135	**1**	35	
1,2-Dibromoethane	525	505	512	**96**	**98**	65-135	**2**	35	

Verified By: Rc Date: 10/4/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Sample ID: **Duplicate Lab Control Sample**
Client Project ID : **WDI**

CAS Project ID: P2702919
CAS Sample ID: P070928-LCS, P070928-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/28/07
Volume(s) Analyzed: NA

Compound	Spike Amt LCS/DLCS pg	Result LCS pg	Result DLCS pg	**% Recovery LCS**	**% Recovery DLCS**	CAS Acceptance Limits	**RPD**	RPD Limit %	**Data Qualifier**
Vinyl Chloride	495	473	474	**96**	**96**	65-135	**0**	35	
1,2-Dibromoethane	525	493	501	**94**	**95**	65-135	**1**	35	

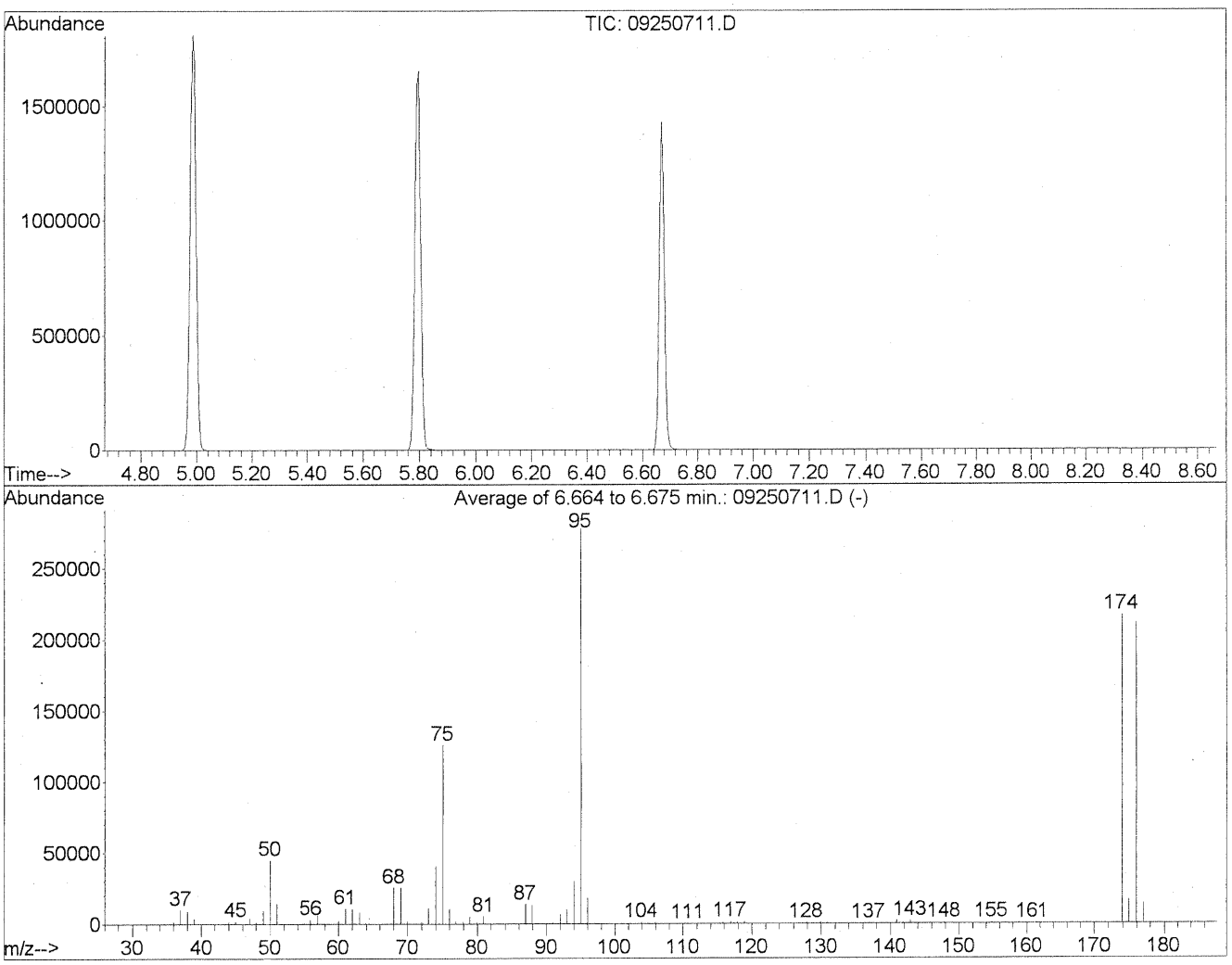
Verified By: RG Date: 10/4/07

BFB

Data File : J:\MS07\DATA\2007_09\25\09250711.D
Acq On : 25 Sep 2007 17:51
Sample : 25ng BFB
Misc :
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM

Vial: 1
Operator: LM/CB
Inst : MSD7
Multiplr: 1.00

ICAL



AutoFind: Scans 380, 381, 382; Background Corrected with Scan 373

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.1	44634	PASS
75	95	30	66	45.2	125698	PASS
95	95	100	100	100.0	277866	PASS
96	95	5	9	6.5	18020	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.0	216810	PASS
175	174	4	9	7.6	16391	PASS
176	174	93	101	97.5	211349	PASS
177	176	5	9	6.6	13877	PASS

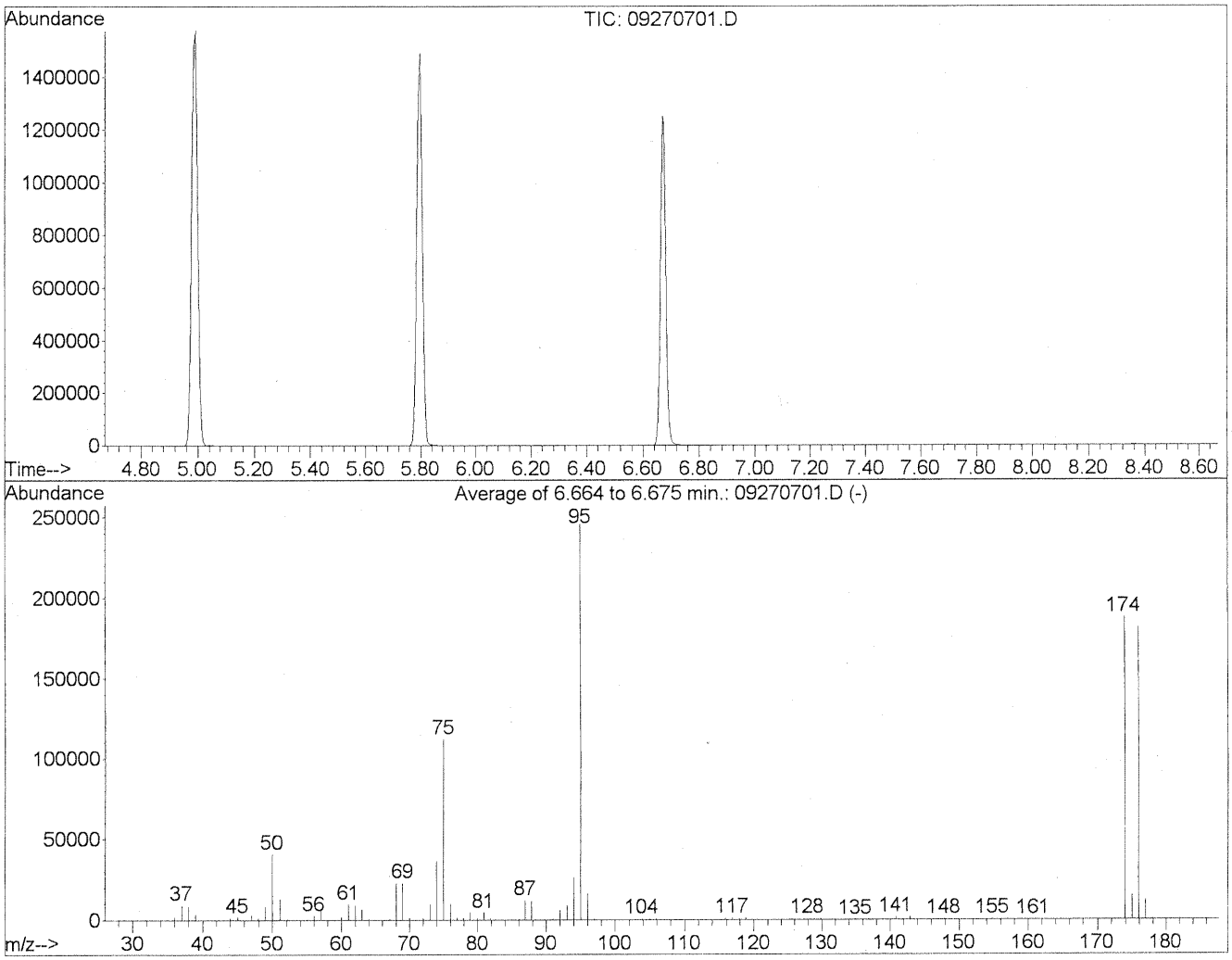
09250711.D X7092507.M Wed Sep 26 13:05:26 2007 MSD7

LM 9/26/07
CB 9/26/07

BFB

Data File : J:\MS07\DATA\2007_09\27\09270701.D
Acq On : 27 Sep 2007 8:26
Sample : 25ng BFB
Misc :
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM

Vial: 1
Operator: LM/CB
Inst : MSD7
Multiplr: 1.00



AutoFind: Scans 380, 381, 382; Background Corrected with Scan 373

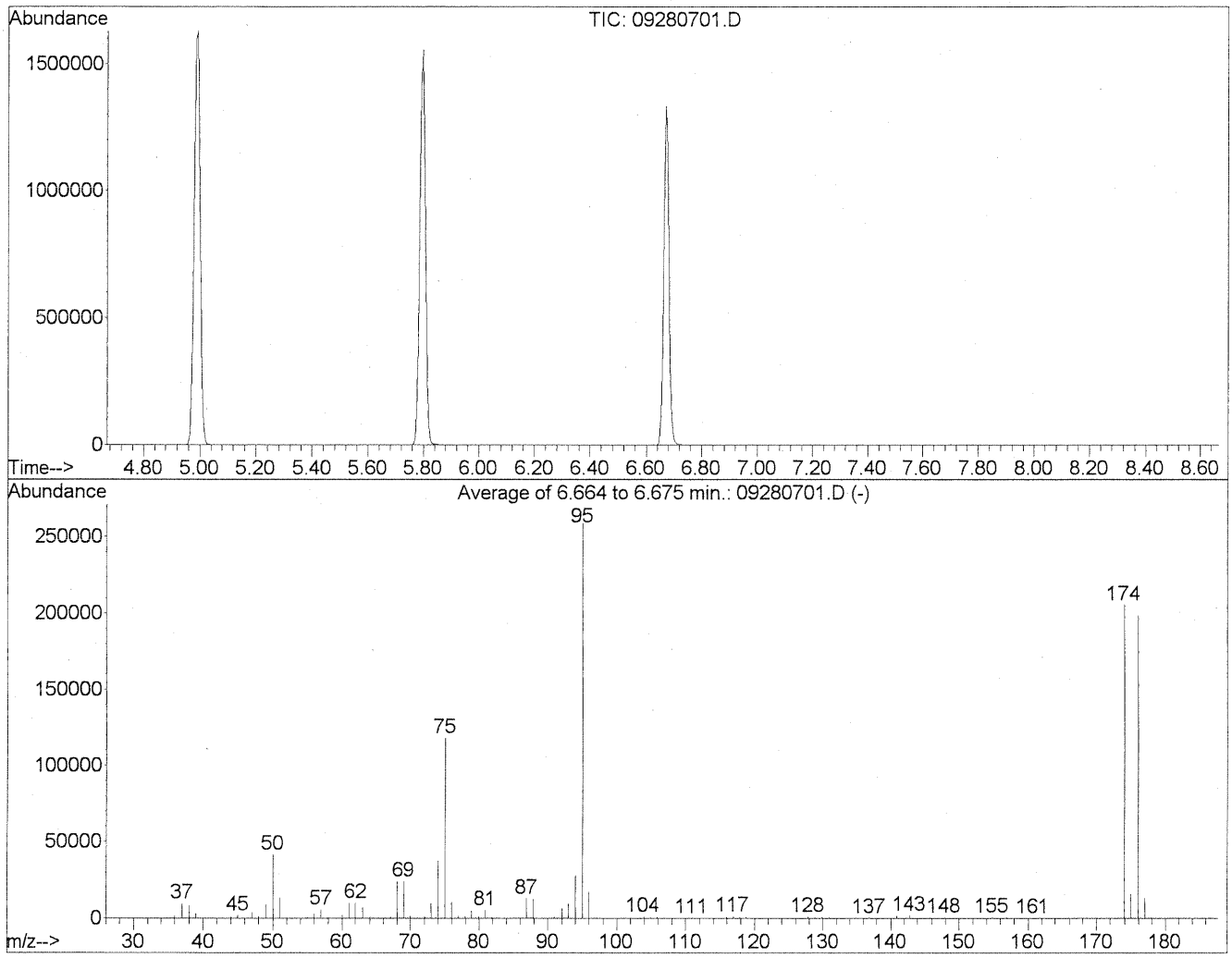
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	40789	PASS
75	95	30	66	45.6	112045	PASS
95	95	100	100	100.0	245525	PASS
96	95	5	9	6.5	16079	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.5	187720	PASS
175	174	4	9	7.8	14694	PASS
176	174	93	101	96.6	181261	PASS
177	176	5	9	6.8	12267	PASS

09270701.D X7092507.M Thu Sep 27 12:12:07 2007 MSD7

CB 9/27/07
MT 9/28/07

BFB

Data File : J:\MS07\DATA\2007_09\28\09280701.D Vial: 1
Acq On : 28 Sep 2007 8:45 Operator: LM/CB
Sample : 25ng BFB Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM



AutoFind: Scans 380, 381, 382; Background Corrected with Scan 373

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.0	41440	PASS
75	95	30	66	45.6	117960	PASS
95	95	100	100	100.0	258538	PASS
96	95	5	9	6.7	17207	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.4	205397	PASS
175	174	4	9	7.6	15568	PASS
176	174	93	101	96.7	198720	PASS
177	176	5	9	6.6	13125	PASS

09280701.D X7092507.M Fri Sep 28 09:54:29 2007 MSD7

CB 9/28/07
LM 10/02/07

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Initial Calibration

Calibration Files
10 =09250712.D 25 =09250713.D 100 =09250714.D 250 =09250715.D 500 =09250716.D
1000 =09250717.D 2500 =09250718.D 9999 =09250719.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg		%RSD
1)	I	Bromochloromethan	---ISTD---										
2)	T	Dichlorodifluorom	3.326	3.185	3.688	3.299	3.050	2.959	2.808	2.748	3.133		9.85
3)	T	Chloromethane		1.003	1.055	0.914	0.846	0.814	0.773	0.745	0.878		13.30
4)	T	Vinyl Chloride	2.507	2.521	2.849	2.640	2.526	2.478	2.389	2.311	2.528		6.44
5)	T	Chloroethane	1.452	1.271	1.482	1.345	1.286	1.238	1.177	1.177	1.304		8.86
6)	T	Acetone	1.755	0.693	0.346	0.198	0.167	0.145	0.126	0.112	0.443	E1	127.47
7)	T	1,1-Dichloroethen	1.456	1.388	1.620	1.482	1.417	1.376	1.332	1.284	1.419		7.27
8)	T	Methylene Chlorid			1.999	1.676	1.584	1.544	1.491	1.445	1.623		12.36
9)	T	Trichlorotrifluor	1.257	1.139	1.334	1.209	1.144	1.112	1.005	0.978	1.147		10.46
10)	T	trans-1,2-Dichlor	1.456	1.474	1.795	1.642	1.561	1.524	1.477	1.465	1.549		7.58
11)	T	1,1-Dichloroethan	2.902	2.527	3.274	2.999	2.772	2.625	2.481	2.505	2.761		10.22
12)	T	Methyl tert-Butyl	4.032	3.869	4.489	4.239	3.817	3.656	3.235	2.882	3.777		13.81
13)	T	cis-1,2-Dichloroe	1.636	1.535	1.792	1.650	1.592	1.562	1.500	1.490	1.595		6.20
14)	T	Chloroform		3.069	2.793	2.409	2.242	2.160	2.004	1.947	2.375		17.55
15)	S	1,2-Dichloroethan	1.881	1.875	1.844	1.857	1.836	1.848	1.833	1.820	1.849		1.13
16)	T	1,2-Dichloroethan	2.045	1.969	2.269	2.120	1.998	1.951	1.874	1.840	2.008		6.86
17)	T	1,1,1-Trichloroet	2.186	2.074	2.489	2.285	2.187	2.141	2.054	2.063	2.185		6.67
18)	T	Benzene			1.124	0.794	0.697	0.652	0.613	0.604	0.748	E1	26.37
19)	T	Carbon Tetrachlor	1.689	1.384	1.806	1.695	1.644	1.623	1.580	1.617	1.630		7.40
20)	I	1,4-Difluorobenze	---ISTD---										
21)	T	1,2-Dichloropropa	0.303	0.303	0.353	0.323	0.310	0.301	0.289	0.284	0.308		7.00
22)	T	Trichloroethene	0.328	0.295	0.345	0.298	0.282	0.269	0.256	0.254	0.291		11.21
23)	T	1,4-Dioxane	0.302	0.263	0.255	0.233	0.227	0.222	0.217	0.213	0.241		12.45
24)	T	cis-1,3-Dichlorop	0.442	0.438	0.496	0.462	0.453	0.448	0.440	0.443	0.453		4.24
25)	T	1,1,2-Trichloroet	0.262	0.244	0.270	0.249	0.240	0.235	0.226	0.223	0.244		6.78
26)	S	Toluene-d8 (SS2)	1.079	1.086	1.080	1.072	1.076	1.085	1.079	1.093	1.081		0.61
27)	T	Toluene	1.568	1.346	1.427	1.284	1.224	1.199	1.154	1.147	1.294		11.34

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

Response Factor Report MSD7

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Initial Calibration

Calibration Files
10 =09250712.D 25 =09250713.D 100 =09250714.D 250 =09250715.D 500 =09250716.D
1000 =09250717.D 2500 =09250718.D 9999 =09250719.D = =

		Compound	10	25	100	250	500	1000	2500	9999	Avg	%RSD
28)	T	1,2-Dibromoethane	0.307	0.304	0.330	0.309	0.301	0.296	0.288	0.286	0.303	4.65
29)	T	Tetrachloroethene	0.281	0.268	0.299	0.276	0.264	0.257	0.246	0.245	0.267	6.82
30)	I	Chlorobenzene-d5	----------ISTD----------									
31)	T	Chlorobenzene	1.792	1.667	1.803	1.709	1.629	1.587	1.540	1.523	1.656	6.44
32)	T	Ethylbenzene	3.040	2.794	3.023	2.921	2.809	2.796	2.771	2.781	2.867	3.90
33)	T	m-&-p-Xylene	1.981	1.775	1.968	1.949	1.891	1.892	1.873	1.882	1.901	3.47
34)	T	o-Xylene	1.996	1.867	2.062	2.078	2.007	1.998	1.964	1.959	1.991	3.30
35)	T	1,1,2,2-Tetrachlo	0.872	0.863	0.809	0.883	0.888	0.876	0.873	0.869	0.867	2.83
36)	S	Bromofluorobenzen	0.642	0.640	0.656	0.661	0.675	0.669	0.670	0.671	0.660	2.03
37)	T	1,3-Dichlorobenze	1.396	1.326	1.237	1.372	1.327	1.286	1.251	1.270	1.308	4.36
38)	T	1,4-Dichlorobenze	1.337	1.301	1.187	1.344	1.303	1.261	1.232	1.257	1.278	4.20
39)	T	1,2-Dichlorobenze	1.306	1.267	1.101	1.280	1.244	1.201	1.163	1.173	1.217	5.70
40)	T	1,2,4-Trichlorobe	0.935	0.944	0.521	0.765	0.773	0.751	0.739	0.738	0.771	17.15
41)	T	Naphthalene	3.520	3.442	1.576	2.499	2.565	2.558	2.569	2.829	2.695	22.62
42)	T	Hexachlorobutadie	0.553	0.526	0.301	0.375	0.410	0.395	0.382	0.379	0.415	20.14

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

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270703.D Vial: 2
Acq On : 27 Sep 2007 9:16 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	95	0.00
2	T	Dichlorodifluoromethane	3.133	2.971	5.2	93	0.00
3	T	Chloromethane	0.878	0.837	4.7	94	0.00
4	T	Vinyl Chloride	2.528	2.447	3.2	92	0.00
5	T	Chloroethane	1.304	1.236	5.2	92	0.00
6	T	Acetone	4.428	1.772	60.0#	101	0.00
7	T	1,1-Dichloroethene	1.419	1.343	5.4	90	0.00
8	T	Methylene Chloride	1.623	1.523	6.2	92	0.00
9	T	Trichlorotrifluoroethane	1.147	1.086	5.3	91	0.00
10	T	trans-1,2-Dichloroethene	1.549	1.488	3.9	91	0.00
11	T	1,1-Dichloroethane	2.761	2.690	2.6	93	0.00
12	T	Methyl tert-Butyl Ether	3.777	3.589	5.0	90	0.00
13	T	cis-1,2-Dichloroethene	1.595	1.526	4.3	91	0.00
14	T	Chloroform	2.375	2.185	8.0	93	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.873	-1.3	97	0.00
16	T	1,2-Dichloroethane	2.008	1.958	2.5	94	0.00
17	T	1,1,1-Trichloroethane	2.185	2.101	3.8	92	0.00
18	T	Benzene	7.476	7.112	4.9	97	0.00
19	T	Carbon Tetrachloride	1.630	1.591	2.4	92	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	96	0.00
21	T	1,2-Dichloropropane	0.308	0.302	1.9	93	0.00
22	T	Trichloroethene	0.291	0.270	7.2	92	0.00
23	T	1,4-Dioxane	0.241	0.217	10.0	91	0.00
24	T	cis-1,3-Dichloropropene	0.453	0.436	3.8	92	0.00
25	T	1,1,2-Trichloroethane	0.244	0.233	4.5	93	0.00
26	S	Toluene-d8 (SS2)	1.081	1.089	-0.7	97	0.00
27	T	Toluene	1.294	1.186	8.3	93	0.00
28	T	1,2-Dibromoethane	0.303	0.288	5.0	92	0.00
29	T	Tetrachloroethene	0.267	0.256	4.1	92	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	97	0.00
31	T	Chlorobenzene	1.656	1.540	7.0	92	0.00
32	T	Ethylbenzene	2.867	2.652	7.5	91	0.00
33	T	m-&-p-Xylene	1.901	1.785	6.1	91	0.00
34	T	o-Xylene	1.991	1.898	4.7	92	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.841	3.0	92	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.655	0.8	94	0.00
37	T	1,3-Dichlorobenzene	1.308	1.223	6.5	89	0.00
38	T	1,4-Dichlorobenzene	1.278	1.199	6.2	89	0.00
39	T	1,2-Dichlorobenzene	1.217	1.142	6.2	89	0.00

(#) = Out of Range

LM 9/28/07

CB 9/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270703.D Vial: 2
Acq On : 27 Sep 2007 9:16 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.721	6.5	90	0.00
41	T	Naphthalene	2.695	2.375	11.9	90	0.00
42	T	Hexachlorobutadiene	0.415	0.385	7.2	91	0.00

LM 9/28/07

CB 9/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270705.D Vial: 2
Acq On : 27 Sep 2007 10:37 Operator: LM/CB
Sample : 25pg CRQL (Check MRL Std) Inst : MSD7
Misc : S20-09110702/S20-09250715 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	95	0.01
2	T	Dichlorodifluoromethane	3.133	3.435	-9.6	102	0.01
3	T	Chloromethane	0.878	1.161	-32.2#	110	0.02
4	T	Vinyl Chloride	2.528	2.794	-10.5	105	0.02
5	T	Chloroethane	1.304	1.378	-5.7	103	0.02
6	T	Acetone	4.428	12.281	-177.3#	168	0.02
7	T	1,1-Dichloroethene	1.419	1.469	-3.5	100	0.01
8	T	Methylene Chloride	1.623	3.985	-145.5#	0#	0.02
9	T	Trichlorotrifluoroethane	1.147	1.266	-10.4	105	0.02
10	T	trans-1,2-Dichloroethene	1.549	1.609	-3.9	104	0.02
11	T	1,1-Dichloroethane	2.761	2.811	-1.8	105	0.01
12	T	Methyl tert-Butyl Ether	3.777	3.924	-3.9	96	0.03
13	T	cis-1,2-Dichloroethene	1.595	1.635	-2.5	101	0.00
14	T	Chloroform	2.375	3.480	-46.5#	108	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.922	-3.9	97	0.00
16	T	1,2-Dichloroethane	2.008	2.147	-6.9	103	0.00
17	T	1,1,1-Trichloroethane	2.185	2.278	-4.3	104	0.00
18	T	Benzene	7.476	32.134	-329.8#	0#	0.00
19	T	Carbon Tetrachloride	1.630	1.506	7.6	103	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	94	0.00
21	T	1,2-Dichloropropane	0.308	0.334	-8.4	104	0.00
22	T	Trichloroethene	0.291	0.322	-10.7	103	0.00
23	T	1,4-Dioxane	0.241	0.280	-16.2	100	0.03
24	T	cis-1,3-Dichloropropene	0.453	0.453	0.0	98	0.00
25	T	1,1,2-Trichloroethane	0.244	0.273	-11.9	106	0.00
26	S	Toluene-d8 (SS2)	1.081	1.087	-0.6	95	0.00
27	T	Toluene	1.294	1.481	-14.5	104	0.00
28	T	1,2-Dibromoethane	0.303	0.323	-6.6	100	0.00
29	T	Tetrachloroethene	0.267	0.281	-5.2	99	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	96	0.00
31	T	Chlorobenzene	1.656	1.836	-10.9	106	0.00
32	T	Ethylbenzene	2.867	2.991	-4.3	103	0.00
33	T	m-&-p-Xylene	1.901	1.911	-0.5	103	0.00
34	T	o-Xylene	1.991	1.956	1.8	100	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.931	-7.4	103	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.628	4.8	94	0.00
37	T	1,3-Dichlorobenzene	1.308	1.389	-6.2	100	0.00
38	T	1,4-Dichlorobenzene	1.278	1.341	-4.9	99	0.00
39	T	1,2-Dichlorobenzene	1.217	1.313	-7.9	99	0.00

(#) = Out of Range

LM 9/28/07 88

CB 9/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270705.D Vial: 2
Acq On : 27 Sep 2007 10:37 Operator: LM/CB
Sample : 25pg CRQL (Check MRL Std) Inst : MSD7
Misc : S20-09110702/S20-09250715 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.909	-17.9	92	0.00
41	T	Naphthalene	2.695	3.224	-19.6	90	0.00
42	T	Hexachlorobutadiene	0.415	0.526	-26.7	96	0.00

LM 9/28/07

CB 9/27/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270718.D Vial: 2
Acq On : 27 Sep 2007 18:47 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Std(closing) Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	3.133	2.874	8.3	98	0.00
3	T	Chloromethane	0.878	0.788	10.3	96	0.00
4	T	Vinyl Chloride	2.528	2.341	7.4	96	0.00
5	T	Chloroethane	1.304	1.187	9.0	96	0.00
6	T	Acetone	4.428	1.770	60.0#	110	0.00
7	T	1,1-Dichloroethene	1.419	1.341	5.5	98	0.00
8	T	Methylene Chloride	1.623	1.503	7.4	98	0.00
9	T	Trichlorotrifluoroethane	1.147	1.106	3.6	100	0.00
10	T	trans-1,2-Dichloroethene	1.549	1.486	4.1	99	0.00
11	T	1,1-Dichloroethane	2.761	2.638	4.5	99	0.00
12	T	Methyl tert-Butyl Ether	3.777	3.645	3.5	99	0.00
13	T	cis-1,2-Dichloroethene	1.595	1.507	5.5	98	0.00
14	T	Chloroform	2.375	2.150	9.5	99	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.809	2.2	102	0.00
16	T	1,2-Dichloroethane	2.008	1.896	5.6	98	0.00
17	T	1,1,1-Trichloroethane	2.185	2.086	4.5	99	0.00
18	T	Benzene	7.476	7.133	4.6	106	0.00
19	T	Carbon Tetrachloride	1.630	1.548	5.0	98	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	105	0.00
21	T	1,2-Dichloropropane	0.308	0.292	5.2	99	0.00
22	T	Trichloroethene	0.291	0.267	8.2	100	0.00
23	T	1,4-Dioxane	0.241	0.217	10.0	101	0.00
24	T	cis-1,3-Dichloropropene	0.453	0.435	4.0	101	0.00
25	T	1,1,2-Trichloroethane	0.244	0.228	6.6	100	0.00
26	S	Toluene-d8 (SS2)	1.081	1.081	0.0	106	0.00
27	T	Toluene	1.294	1.187	8.3	102	0.00
28	T	1,2-Dibromoethane	0.303	0.287	5.3	100	0.00
29	T	Tetrachloroethene	0.267	0.254	4.9	101	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
31	T	Chlorobenzene	1.656	1.596	3.6	101	0.00
32	T	Ethylbenzene	2.867	2.797	2.4	102	0.00
33	T	m-&-p-Xylene	1.901	1.869	1.7	102	0.00
34	T	o-Xylene	1.991	1.974	0.9	101	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.851	1.8	98	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.665	-0.8	101	0.00
37	T	1,3-Dichlorobenzene	1.308	1.281	2.1	99	0.00
38	T	1,4-Dichlorobenzene	1.278	1.250	2.2	99	0.00
39	T	1,2-Dichlorobenzene	1.217	1.191	2.1	98	0.00

(#) = Out of Range

LM 10/27/07

CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\27\09270718.D Vial: 2
Acq On : 27 Sep 2007 18:47 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Std(closing) Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.744	3.5	99	0.00
41	T	Naphthalene	2.695	2.501	7.2	100	0.00
42	T	Hexachlorobutadiene	0.415	0.388	6.5	97	0.00

LM 10/02/07

CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280703.D Vial: 2
Acq On : 28 Sep 2007 9:35 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	3.133	2.908	7.2	98	0.00
3	T	Chloromethane	0.878	0.801	8.8	97	0.00
4	T	Vinyl Chloride	2.528	2.411	4.6	98	0.00
5	T	Chloroethane	1.304	1.188	8.9	95	0.00
6	T	Acetone	4.428	1.756	60.3#	108	0.00
7	T	1,1-Dichloroethene	1.419	1.331	6.2	97	0.00
8	T	Methylene Chloride	1.623	1.492	8.1	97	0.00
9	T	Trichlorotrifluoroethane	1.147	1.092	4.8	98	0.00
10	T	trans-1,2-Dichloroethene	1.549	1.483	4.3	98	0.00
11	T	1,1-Dichloroethane	2.761	2.602	5.8	96	0.00
12	T	Methyl tert-Butyl Ether	3.777	3.591	4.9	97	0.00
13	T	cis-1,2-Dichloroethene	1.595	1.510	5.3	97	0.00
14	T	Chloroform	2.375	2.144	9.7	98	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.806	2.3	101	0.00
16	T	1,2-Dichloroethane	2.008	1.896	5.6	98	0.00
17	T	1,1,1-Trichloroethane	2.185	2.074	5.1	97	0.00
18	T	Benzene	7.476	7.138	4.5	105	0.00
19	T	Carbon Tetrachloride	1.630	1.565	4.0	98	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	104	0.00
21	T	1,2-Dichloropropane	0.308	0.292	5.2	98	0.00
22	T	Trichloroethene	0.291	0.272	6.5	100	0.00
23	T	1,4-Dioxane	0.241	0.215	10.8	98	0.00
24	T	cis-1,3-Dichloropropene	0.453	0.427	5.7	98	0.00
25	T	1,1,2-Trichloroethane	0.244	0.228	6.6	98	0.00
26	S	Toluene-d8 (SS2)	1.081	1.070	1.0	103	0.00
27	T	Toluene	1.294	1.169	9.7	99	0.00
28	T	1,2-Dibromoethane	0.303	0.286	5.6	99	0.00
29	T	Tetrachloroethene	0.267	0.253	5.2	99	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	102	0.00
31	T	Chlorobenzene	1.656	1.591	3.9	99	0.00
32	T	Ethylbenzene	2.867	2.757	3.8	100	0.00
33	T	m-&-p-Xylene	1.901	1.855	2.4	100	0.00
34	T	o-Xylene	1.991	1.973	0.9	100	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.837	3.5	96	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.660	0.0	99	0.00
37	T	1,3-Dichlorobenzene	1.308	1.286	1.7	99	0.00
38	T	1,4-Dichlorobenzene	1.278	1.256	1.7	98	0.00
39	T	1,2-Dichlorobenzene	1.217	1.196	1.7	98	0.00

(#) = Out of Range

LM 10/02/07

92

CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280703.D Vial: 2
Acq On : 28 Sep 2007 9:35 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : S20-09110702/S20-09250714 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.755	2.1	99	0.00
41	T	Naphthalene	2.695	2.474	8.2	98	0.00
42	T	Hexachlorobutadiene	0.415	0.400	3.6	99	0.00

UM 10/02/07
CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280705.D Vial: 2
Acq On : 28 Sep 2007 10:59 Operator: LM/CB
Sample : 25 pg TO-15/SIM CRQL STD(MRL check) Inst : MSD7
Misc : S20-09110702?S20-09250715 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	3.133	3.047	2.7	99	0.01
3	T	Chloromethane	0.878	0.966	-10.0	100	0.02
4	T	Vinyl Chloride	2.528	2.428	4.0	100	0.02
5	T	Chloroethane	1.304	1.190	8.7	97	0.02
6	T	Acetone	4.428	12.570	-183.9#	188	0.02
7	T	1,1-Dichloroethene	1.419	1.289	9.2	96	0.01
8	T	Methylene Chloride	1.623	3.707	-128.4#	0#	0.01
9	T	Trichlorotrifluoroethane	1.147	1.122	2.2	102	0.01
10	T	trans-1,2-Dichloroethene	1.549	1.419	8.4	100	0.02
11	T	1,1-Dichloroethane	2.761	2.332	15.5	96	0.01
12	T	Methyl tert-Butyl Ether	3.777	3.455	8.5	93	0.03
13	T	cis-1,2-Dichloroethene	1.595	1.453	8.9	98	0.00
14	T	Chloroform	2.375	3.230	-36.0#	109	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.845	0.2	102	0.00
16	T	1,2-Dichloroethane	2.008	1.852	7.8	98	0.00
17	T	1,1,1-Trichloroethane	2.185	2.012	7.9	101	0.00
18	T	Benzene	7.476	25.461	-240.6#	0#	0.00
19	T	Carbon Tetrachloride	1.630	1.307	19.8	98	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	104	0.00
21	T	1,2-Dichloropropane	0.308	0.288	6.5	99	0.00
22	T	Trichloroethene	0.291	0.288	1.0	102	0.00
23	T	1,4-Dioxane	0.241	0.256	-6.2	102	0.03
24	T	cis-1,3-Dichloropropene	0.453	0.412	9.1	98	0.00
25	T	1,1,2-Trichloroethane	0.244	0.236	3.3	101	0.00
26	S	Toluene-d8 (SS2)	1.081	1.079	0.2	104	0.00
27	T	Toluene	1.294	1.340	-3.6	104	0.00
28	T	1,2-Dibromoethane	0.303	0.290	4.3	99	0.00
29	T	Tetrachloroethene	0.267	0.248	7.1	96	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	103	0.00
31	T	Chlorobenzene	1.656	1.706	-3.0	105	0.00
32	T	Ethylbenzene	2.867	2.805	2.2	103	0.00
33	T	m-&-p-Xylene	1.901	1.801	5.3	104	0.00
34	T	o-Xylene	1.991	1.828	8.2	101	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.810	6.6	97	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.635	3.8	102	0.00
37	T	1,3-Dichlorobenzene	1.308	1.290	1.4	100	0.00
38	T	1,4-Dichlorobenzene	1.278	1.257	1.6	99	0.00
39	T	1,2-Dichlorobenzene	1.217	1.233	-1.3	100	0.00

(#) = Out of Range

LM 10/02/07

CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280705.D Vial: 2
Acq On : 28 Sep 2007 10:59 Operator: LM/CB
Sample : 25 pg TO-15/SIM CRQL STD(MRL check) Inst : MSD7
Misc : S20-09110702?S20-09250715 Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.817	-6.0	89	0.00
41	T	Naphthalene	2.695	2.869	-6.5	86	0.00
42	T	Hexachlorobutadiene	0.415	0.466	-12.3	91	0.00

LM 10/07/07
CB 9/28/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280715.D Vial: 2
Acq On : 28 Sep 2007 18:24 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : 500pg TO-15/SIM CCV Standard(closing cc Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane (IS1)	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	3.133	2.833	9.6	96	0.00
3	T	Chloromethane	0.878	0.783	10.8	95	0.00
4	T	Vinyl Chloride	2.528	2.323	8.1	95	0.00
5	T	Chloroethane	1.304	1.171	10.2	94	0.00
6	T	Acetone	4.428	1.714	61.3#	106	0.00
7	T	1,1-Dichloroethene	1.419	1.323	6.8	96	0.00
8	T	Methylene Chloride	1.623	1.477	9.0	96	0.00
9	T	Trichlorotrifluoroethane	1.147	1.074	6.4	97	0.00
10	T	trans-1,2-Dichloroethene	1.549	1.460	5.7	96	0.00
11	T	1,1-Dichloroethane	2.761	2.597	5.9	97	0.00
12	T	Methyl tert-Butyl Ether	3.777	3.565	5.6	96	0.00
13	T	cis-1,2-Dichloroethene	1.595	1.474	7.6	95	0.00
14	T	Chloroform	2.375	2.116	10.9	97	0.00
15	S	1,2-Dichloroethane-d4 (SS1)	1.849	1.825	1.3	103	0.00
16	T	1,2-Dichloroethane	2.008	1.842	8.3	95	0.00
17	T	1,1,1-Trichloroethane	2.185	2.041	6.6	96	0.00
18	T	Benzene	7.476	6.585	11.9	97	0.00
19	T	Carbon Tetrachloride	1.630	1.523	6.6	96	0.00
20	I	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	104	0.00
21	T	1,2-Dichloropropane	0.308	0.285	7.5	96	0.00
22	T	Trichloroethene	0.291	0.262	10.0	97	0.00
23	T	1,4-Dioxane	0.241	0.214	11.2	98	0.00
24	T	cis-1,3-Dichloropropene	0.453	0.429	5.3	98	0.00
25	T	1,1,2-Trichloroethane	0.244	0.224	8.2	97	0.00
26	S	Toluene-d8 (SS2)	1.081	1.099	-1.7	106	0.00
27	T	Toluene	1.294	1.167	9.8	99	0.00
28	T	1,2-Dibromoethane	0.303	0.284	6.3	98	0.00
29	T	Tetrachloroethene	0.267	0.252	5.6	99	0.00
30	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
31	T	Chlorobenzene	1.656	1.529	7.7	98	0.00
32	T	Ethylbenzene	2.867	2.658	7.3	99	0.00
33	T	m-&-p-Xylene	1.901	1.785	6.1	99	0.00
34	T	o-Xylene	1.991	1.887	5.2	98	0.00
35	T	1,1,2,2-Tetrachloroethane	0.867	0.810	6.6	96	0.00
36	S	Bromofluorobenzene (SS3)	0.660	0.673	-2.0	104	0.00
37	T	1,3-Dichlorobenzene	1.308	1.225	6.3	97	0.00
38	T	1,4-Dichlorobenzene	1.278	1.196	6.4	96	0.00
39	T	1,2-Dichlorobenzene	1.217	1.145	5.9	96	0.00

(#) = Out of Range

LM 10/2/07
CB 10/1/07

Evaluate Continuing Calibration Report

Data File : J:\MS07\DATA\2007_09\28\09280715.D Vial: 2
Acq On : 28 Sep 2007 18:24 Operator: LM/CB
Sample : 500pg TO-15/SIM CCV Standard Inst : MSD7
Misc : 500pg TO-15/SIM CCV Standard(closing cc Multiplr: 1.00
MS Integration Params: rteint.p

Method : J:\MS07\METHODS\X7092507.M (RTE Integrator)
Title : TO-15/SIM
Last Update : Wed Sep 26 10:54:26 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1,2,4-Trichlorobenzene	0.771	0.748	3.0	101	0.00
41	T	Naphthalene	2.695	2.450	9.1	100	0.00
42	T	Hexachlorobutadiene	0.415	0.392	5.5	100	0.00

LM 10/02/07
CB 10/1/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Internal Standard Area and RT Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 09270703.D
Date Analyzed: 09/27/07
Time Analyzed: 09:16

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	38534	5.86	203132	7.14	97578	10.60
	Upper Limit	53948	6.19	284385	7.47	136609	10.93
	Lower Limit	23120	5.53	121879	6.81	58547	10.27
	Client Sample ID						
01	Method Blank	35877	5.87	193404	7.14	94756	10.60
02	Lab Control Sample	37133	5.87	196982	7.14	94809	10.60
03	Duplicate Lab Control Sample	36394	5.87	192629	7.14	92337	10.60
04	WDI-IBM-44-9-16-07	37264	5.87	191393	7.14	94642	10.60
05	WDI-IBM-22-9-18-07	37347	5.86	203498	7.14	98821	10.60
06	WDI-IBM-22-9-18-07 (Lab Duplicate)	37000	5.87	202053	7.14	95635	10.60
07	WDI-IBM-41-9-16-07	37956	5.87	203067	7.15	106559	10.60
08	WDI-IBM-28-9-16-07	39138	5.86	209170	7.14	102347	10.60
09	WDI-IBM-03B-9-16-07	38646	5.87	209599	7.14	104055	10.60
10							
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Verified by: RG Date: 11/8/07

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **TRC**
Client Project ID: **WDI**

CAS Project ID: P2702919

Internal Standard Area and RT Summary

Test Code: EPA TO-15 SIM Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973N/HP6890A/MS7
Analyst: Liliana Marghitoiu
Sampling Media: Summa Canister(s)
Test Notes:

Lab File ID: 09280703.D
Date Analyzed: 09/28/07
Time Analyzed: 09:35

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	24 Hour Standard	41517	5.86	219905	7.14	102422	10.60
	Upper Limit	58124	6.19	307867	7.47	143391	10.93
	Lower Limit	24910	5.53	131943	6.81	61453	10.27
	Client Sample ID						
01	Method Blank	39694	5.87	218012	7.14	101743	10.60
02	Lab Control Sample	40954	5.86	217789	7.14	102700	10.60
03	Duplicate Lab Control Sample	40318	5.87	213352	7.14	101255	10.60
04	WDI-IBM-49-9-16-07	41778	5.86	224462	7.14	106913	10.60
05	WDI-IBM-49-9-16-07-SC	41402	5.86	222623	7.14	105175	10.60
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20							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
AREA LOWER LIMIT = 60% of internal standard area
RT UPPER LIMIT = 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Verified by: Rc Date: 10/4/07

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
11	9/25/07 17:51	09250711.D	25ng BFB		LM/CB	1	Passed
12	9/25/07 18:52	09250712.D	10pg TO-15/SIM ICAL Std	S20-09110702/S20-09250715	LM/CB	2	
13	9/25/07 19:20	09250713.D	25pg TO-15/SIM ICAL Std	S20-09110702/S20-09250715	LM/CB	2	ICAL OK all camp.
14	9/25/07 19:48	09250714.D	100pg TO-15/SIM ICAL Std	S20-09110702/S20-09250714	LM/CB	2	10 pg -> 10000 pg
15	9/25/07 20:16	09250715.D	250pg TO-15/SIM ICAL Std	S20-09110702/S20-09250714	LM/CB	2	except chloromethane
16	9/25/07 20:45	09250716.D	500pg TO-15/SIM ICAL Std	S20-09110702/S20-09250714	LM/CB	2	and chloroform
17	9/25/07 21:13	09250717.D	1000pg TO-15/SIM ICAL Std	S20-09110702/S20-09250714	LM/CB	2	25 pg -> 10000 pg
18	9/25/07 21:42	09250718.D	2500pg TO-15/SIM ICAL Std	S20-09110702/S20-09250714	LM/CB	2	Benzene and $MeCl_2$
19	9/25/07 22:10	09250719.D	10000pg TO-15/SIM ICAL Std	S20-09110702/S20-09250708	LM/CB	15	100 pg -> 10000 pg
20	9/25/07 22:39	09250720.D	blank (100ml)	rinse system	LM/CB	2	
21	9/25/07 23:07	09250721.D	500pg TO-15/SIM ICV Std	S20-09110702/S20-09250716	LM/CB	16	Passed all camp except naphthalene

ICAL passed all camp except Acetone (not in the SIM list); 10pg -> 10000pg except chloromethane and chloroform 25pg -> 10000 pg and Benzene and $MeCl_2$ 100pg -> 10000 pg. ICV passed all camp. except Naphthalene.

LM 9/26/07

Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
9/27/07 1:33	09260727.D	CAS CAN AC/FC QC (1000ml)	AC01031/FC00521	LM/CB	15	Passed # 12347
9/27/07 2:04	09260728.D	CAS CAN AC/FC QC (1000ml)	AC01427/FC00490	LM/CB	16	↓
9/27/07 7:49	09260729.D	CAS CAN AC/FC QC (1000ml)	AC01334/FC00287	LM/CB	1	

9/27/07 8:26	09270701.D	25ng BFB		LM/CB	1	Passed
9/27/07 8:48	09270702.D	blank (100ml)	rinse	LM/CB	2	
9/27/07 9:16	09270703.D	500pg TO-15/SIM CCV Standard	S20-09110702/S20-09250714	LM/CB	2	Passed
9/27/07 10:05	09270704.D	TO-15/SIM Method Blank (1000ml)	S20-09110702	LM/CB	2	Passed
9/27/07 10:37	09270705.D	25pg CRQL (Check MRL Std)	S20-09110702/S20-09250715	LM/CB	2	Passed
9/27/07 11:09	09270706.D	500pg TO-15/SIM LCS Std	S20-09110702/S20-09250716	LM/CB	3	Passed
9/27/07 11:38	09270707.D	500pg TO-15/SIM LCS DUP Std	S20-09110702/S20-09250716	LM/CB	3	Passed as LCS dup
9/27/07 12:23	09270708.D	P2702919-006 (25ml)	TRC WDI-IBM-22-9-16-07 (0.3,3.9)	LM/CB	7	case file - run at higher volume
9/27/07 12:53	09270709.D	P2702919-007 (25ml)	TRC WDI-IBM-44-9-16-07 (-5.8,3.7)	LM/CB	8	
9/27/07 13:28	09270710.D	P2702919-006 (300ml)	TRC WDI-IBM-22-9-~~16~~ 6-07 (0.3,3.9) CB 10/18/07	LM/CB	7	
9/27/07 13:58	09270711.D	P2702919-006 dup (300ml)	TRC WDI-IBM-22-9-~~16~~ 6-07 (0.3,3.9)	LM/CB	7	Passed as Lab dup
9/27/07 14:39	09270712.D	P2702919-004 (1000ml)	TRC WDI-IBM-41-9-16-07 (-4.7,3.5)	LM/CB	5	
9/27/07 15:25	09270713.D	P2702919-005 (700ml)	TRC WDI-IBM-28-9-16-07 (-3.4,3.6)	LM/CB	6	
9/27/07 16:07	09270714.D	P2702919-001 (1000ml)	TRC WDI-IBM-03B-9-16-07 (-2.6,3.5)(-3.7,3.5)	LM/CB	9	
9/27/07 16:56	09270715.D	P2702948-001 (1000ml)	TRC WDI-IBM-42-9-19-07 (-3.2,3.7)	LM/CB	10	
9/27/07 17:27	09270716.D	P2702948-002 (1000ml)	TRC WDI-IBM-12-9-~~19~~ 22-07 (-2.5,~~2.7~~ 3.5) CB 10/1/07 CB 10/1/07	LM/CB	11	
9/27/07 18:01	09270717.D	P2702948-003 (1000ml)	TRC WDI-IBM-12-9-22-07-SC (-4.4,3.6)	LM/CB	12	
9/27/07 18:47	09270718.D	500pg TO-15/SIM CCV Std(closing)	S20-09110702/S20-09250714	LM/CB	2	Passed for closing CCV
9/27/07 19:15	09270719.D	P2702960-001 (100ml)	[redacted]	LM/CB	13	
9/27/07 19:43	09270720.D	P2702960-002 (100ml)	[redacted]	LM/CB	14	case file - run at higher volume
9/27/07 20:11	09270721.D	P2702960-003 (100ml)	[redacted]	LM/CB	15	
9/27/07 20:39	09270722.D	P2702960-004 (100ml)	[redacted]	LM/CB	16	
9/27/07 21:07	09270723.D	blank(100ml) CB 9/28/07	rinse	LM/CB	2	
9/28/07 7:50	09270724.D	P2702960-001 dil (~~75ml~~)(25ml)	[redacted]	LM/CB	13	

9/28/07 8:45	09280701.D	25ng BFB		LM/CB	1	Passed
9/28/07 9:07	09280702.D	blank (100ml)	rinse	LM/CB	2	
9/28/07 9:35	09280703.D	500pg TO-15/SIM CCV Standard	S20-09110702/S20-09250714	LM/CB	2	Passed
9/28/07 10:21	09280704.D	Method Blank (1000ml)	S20-09110702	LM/CB	2	↓
9/28/07 10:59	09280705.D	25 pg TO-15/SIM CRQL STD(MRL check)	S20-09110702?S20-09250715	LM/CB	2	
9/28/07 11:44	09280706.D	500pg TO-15/SIM LCS Std	S20-09110702/S20-09250716	LM/CB	3	↓
9/28/07 12:12	09280707.D	500pg TO-15/SIM LCS dup Std	S20-09110702/S20-09250716	LM/CB	3	Passed as LCS dup
9/28/07 13:00	09280708.D	P2702947-001 (1000ml)	TRC WDI-IBM-37-9-19-07 (-3.7,3.7)	LM/CB	5	
9/28/07 13:39	09280709.D	P2702947-001 dup (1000ml)	TRC WDI-IBM-37-9-19-07 (-3.7,3.7)	LM/CB	5	Passed as lab dup
9/28/07 14:10	09280710.D	blank (100ml)	rinse system	LM/CB	2	
9/28/07 15:04	09280711.D	P2702919-002 (1000ml)	TRC WDI-IBM-49-9-16-07 (-2.5,3.5)	LM/CB	9	
9/28/07 15:45	09280712.D	P2702919-003 (1000ml)	TRC WDI-IBM-49-9-16-07-SC (-3.8,3.7)	LM/CB	11	
9/28/07 16:45	09280713.D	P2702947-002 (1000ml)	TRC WDI-IBM-50-9-23-07 (-4.8,3.6)	LM/CB	6	
9/28/07 17:18	09280714.D	P2702947-003 (1000ml)	TRC WDI-IBM-24B-9-24-07 (-5.6,3.6)	LM/CB	7	

	Date/Time	Fi
15	9/28/07 18:24	09
16	9/28/07 18:53	09
17	9/28/07 19:21	09
18	9/28/07 19:49	09
19	9/28/07 20:18	09
20	9/28/07 20:46	09
21	9/28/07 21:17	09
22	9/28/07 21:45	0
23	9/28/07 22:15	0
24	9/28/07 22:44	0

1	10/1/07 8:38
2	10/1/07 9:00
3	10/1/07 9:28
4	10/1/07 10:35
5	10/1/07 11:17
6	10/1/07 11:51
7	10/1/07 12:20
8	10/1/07 13:13
9	10/1/07 13:57
10	10/1/07 14:38
11	10/1/07 16:11
12	10/1/07 16:44
13	10/1/07 17:21
14	10/1/07 17:50
15	10/1/07 18:19
16	10/1/07 18:50
17	10/1/07 19:21
18	10/1/07 19:51
19	10/1/07 20:22
20	10/1/07 20:50
21	10/1/07 21:19
22	10/1/07 21:48

1	10/2/07 8:25
2	10/2/07 8:47
3	10/2/07 9:15
4	10/2/07 9:54
5	10/2/07 10:45
6	10/2/07 11:43
7	10/2/07 12:31
8	10/2/07 13:01
9	10/2/07 13:32

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
15	9/28/07 18:24	09280715.D	500pg TO-15/SIM CCV Standard	500pg TO-15/SIM CCV Standard(closing ccv)	LM/CB	2	Passed as closing CCV
16	9/28/07 18:53	09280716.D	blank (200ml)	check system	LM/CB	2	
17	9/28/07 19:21	09280717.D	blank (200ml)	check system	LM/CB	2	
18	9/28/07 19:49	09280718.D	blank (200ml)	check system	LM/CB	2	
19	9/28/07 20:18	09280719.D	P2702960-002 (200ml)	[redacted]	LM/CB	14	
20	9/28/07 20:46	09280720.D	P2702960-003 (500ml)	[redacted]	LM/CB	15	
21	9/28/07 21:17	09280721.D	P2702960-004 (1000ml)	[redacted]	LM/CB	16	
22	9/28/07 21:45	09280722.D	P2702960-005 (100ml)	[redacted]	LM/CB	9	
23	9/28/07 22:15	09280723.D	P2702960-006 (1000ml)	[redacted]	LM/CB	13	
24	9/28/07 22:44	09280724.D	blank(200ml)	rinse	LM/CB	14	

Columbia Analytical Services, Inc.
Air Quality Laboratory
An Employee Owned Company

QC CERTIFICATION

Quality Control Results:	PASS
Quality Control Batch ID:	07534
Quality Control Analyzed:	13-Sep-07
Cleaned:	06-Sep-07
Quality Control Analyzed on Container:	AC00097

Container IDs

AC00580
AC00998
AC01128
AC01305
AC01089
AC00097
AC00584
AC01272
AC00801
AC01278
AC00295
AC00923
AC00823
AC01070
AC01243
AC00985

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: TRC Work order: P2702919

Project: WDI

Sample(s) received on: 09/19/07 Date opened: 09/19/07 by: MZ

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
8	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH (as received, if required)	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2702919-001			NA	
P2702919-002			NA	
P2702919-003			NA	
P2702919-004			NA	
P2702919-005			NA	
P2702919-006			NA	
P2702919-007			NA	

Explain any discrepancies: (include lab sample ID numbers):

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
An Employee - Owned Company
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. P7D2919

Company Name & Address (Reporting Information): TRC, 21 W. TECHNOLOGY DR., IRVINE, CA. 92618

Project Name: WDI

Project Number:

CAS Contact:

Project Manager: ANAND HELEKAR

P.O. # / Billing Information:

Phone: (949) 727-9336 Fax: (949) 727-7399

Email Address for Result Reporting: AHELEKAR@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVE CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	VOC's BY TO-15 + VINYL CHLORIDE AND 1,2-DI-BROMOETHANE BY SIM	EPA 25C MODIFIED TOTAL NON METHANE ORGANIC CARBON + METHANE			Comments e.g. Actual Preservative or specific instructions
WDI-IBM-03B-9-16-07	1-5.2	9-16-07	0827	AIR	AC01243	FC00097	6L	X	X			
WDI-IBM-49-9-16-07	2-4.7	9-16-07	1000	AIR	AC01070	FC00026	6L	X	X			
WDI-IBM-49-9-16-07-SC	3-7.7	9-16-07	1000	AIR	AC01128	FC00581	6L	X	X			
WDI-IBM-41-9-16-07	4-9.5	9-16-07	1010	AIR	AC00985	FC00587	6L	X	X			
~~WDI-IBM-44-9-16-07~~		~~9-16-07~~	~~1121~~	~~AIR~~	~~AC00998~~	~~FC00229~~	~~6L~~	~~X~~	~~X~~			SC
WDI-IBM-28-9-16-07	5-6.9	9-16-07	1715	AIR	AC00923	FC00526	6L	X	X			
WDI-IBM-22-9-18-07	6-10.3	9-18-07	1530	AIR	AC00580	FC00586	6L	X	X			

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ____
Tier III - (Data Validation Package) 10% Surcharge ✓
Tier V - (client specified) ____

EDD required: Yes / No
Type: ____
EDD Units: ____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Steven Crawford	9/18/07	1030	[signature]	9/18/07	14:47
[signature]	9/18/07	17:15	[signature]	9/18/07	17:15
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank 12.4C
Temperature °C

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
An Employee - Owned Company
2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No. 27702419

Company Name & Address (Reporting Information): TRC, 21 W. TECHNOLOGY DR. IRVINE, CA. 9

Project Name: WOI

Project Number: TASK #1308

CAS Contact:

Project Manager: ANAND HELEKAR

P.O. # / Billing Information:

Phone: (949) 727-9336 Fax: (949) 727-7399

Email Address for Result Reporting: AHELEKAR@TRCSOLUTIONS.COM

Sampler (Print & Sign): STEVEN CRAWFORD Steven Crawford

Analysis Method and/or Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	VOC's BY TO-15 + VINYL CHLORIDE, AND 1,2-DI-BROMOETHANE BY SIM	EPA 25C MODIFIED TOTAL NON-METHANE ORGANIC CARBON + METHANE			Comments e.g. Actual Preservative or specific instructions
WOI-IBM-44-9-16-07	7-11.9	9-16-07	1171	AIR	AC0998	F000229	6L	X	X			

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ____
Tier III - (Data Validation Package) 10% Surcharge ✓
Tier V - (client specified) ____

EDD required Yes / No
Type: _____ EDD Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Steven Crawford	9/19/07	1030	[illegible]	9/19/07	4:42
[illegible]	9/19/07	17:15	[illegible]	[illegible]	17:15
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank
Temperature °C