AR_N00236_002915
ALAMEDA POINT
SSIC NO. 5090.3.A

4005 Port Chicago Highway
Concord, CA 94520
(925) 288-9898 (Main Line)
(925) 288-0888 (Fax)

Shaw® Shaw Environmental, Inc.

July 15, 2007

Mr. Doug DeLong
Environmental Compliance Manager
U.S. Department of the Navy – Caretaker Site Office
San Francisco Bay Area
410 Palm Avenue, Building 1 – Suite 161
San Francisco, California 94130-1806

Contract Number: N62474-98-D-2076, Environmental Remedial Action

Contract Task Order Multiple CTOs at Alameda Point, Alameda, California
Document Control Number 0133_dcn_10226_0

Subject: **Self-Monitoring Report – 2nd Quarter 2007**
Wastewater Discharge Permit No. 5024981 2
Alameda Point, Alameda, California

Dear Mr. DeLong:

This letter report has been prepared pursuant to the Self-Monitoring Reporting Requirements of the East Bay Municipal Utility District Wastewater Discharge Permit No. 5024981 2. This letter summarizes discharge activities conducted and data collected during the Second Quarter 2007 (April 1 through June 30, 2007) for the Site 4-2/Building 360 pretreatment system at Alameda Point, Alameda, California. The Six-Phase Heating/Vacuum Extraction and associated wastewater pretreatment system at Site 5 has not been in operation since February 2007, as construction at the site continues in preparation for Phase 2 of the project. No groundwater was extracted or discharged to the sanitary sewer system at Site 5 during this reporting period. The proposed Corrective Action Area (CAA) 3/Building 112 Treatment Plant is currently in the construction phase, and thus did not operate during this quarter. The CAA 3/Building 112 Treatment Plant operation is scheduled to commence in July 2007.

Table 1 summarizes the analytical results for the wastewater discharge samples collected during this reporting period for the Site 4-2 pretreatment system.

Site 4-2 Pretreatment System

The Plume 4-2 treatment system at Building 360 continued operation in this second quarter. Condensate generated from the treatment system continued to be pre-treated in the liquid phase granular activated carbon (GAC) vessels, prior to discharge to the Publicly Owned Treatment Works (POTW) via the permitted outfall (manhole 2-14) located within the system compound at Building 360. In addition to the condensate, water generated from maintenance of the condensate management system was processed through the GAC vessels before joining the treated condensate in the discharge to the POTW. In this reporting period, the total volume of condensate discharged from the system to the POTW was approximately 572,712 gallons.

General maintenance activities included periodic cleaning of the condensate filters to remove solid buildup in the filter vessels. The GAC vessels were changed out once in this quarter in the week of June 12, 2007. A few additional modifications were made in this quarter to the pretreatment system to maintain the amount of condensate generated, and to handle the excessive solid buildup issues. In the week of April 24, 2007, a Vapor/Liquid Separator (VLS) was installed to improve handling of the entrained groundwater in the condensate management system. On June 7, 2007, the condensate management system was further reconfigured; two 200-pound liquid phase GAC vessels were added to separately treat condensate discharged from the VLS, and the system effluent pipeline diameter was increased to 2 inches to improve flow efficiency through the modified system. The modifications did not result in significant changes to the discharge volume to the POTW; however, the online time of the system has improved substantially.

Monthly sampling of the treated effluent from the GAC vessels was performed in compliance with the EBMUD discharge permit requirements. In this quarter, the effluent stream was sampled on April 26th, May 24th, and June 15th. All effluent samples were submitted to Severn Trent Laboratory for analysis of volatile organic compounds (VOC), semivolatile organic compounds, and oil and grease. The VOC list specifically included benzene, toluene, ethyl benzene, and xylenes. All effluent discharge sample results show that the regulated parameters were within the discharge limits (Table 1).

Should you have any questions or need additional information please contact me at (925) 288-2023.

Sincerely,
SHAW ENVIRONMENTAL, INC.

Kim MacFarlane

Kim MacFarlane
Engineer

Attachment:
Table 1

cc: Gregory Grace, U.S. Navy ROICC
Michelle Hurst, U.S. Navy RPM
Steven Peck, U.S. Navy RPM
John McGuire, Shaw
John McMillan, Shaw
U.S. Navy Basic Contract File (w/o enclosure)
Shaw Project Files

TABLE

Table 1
Plume 4-2 (Bldg 360) Pretreatment System
Effluent Water Analytical Summary - Second Quarter 2007
CTO# 133, Alameda Pt., Alameda, CA

Constituents [1]			Discharge Limits [2] (µg/l)		Effluent Concentration (µg/l) for Sample Collected on		
					4/26/07	5/24/07	6/15/07
VOCs [3]							
Benzene			5		ND<0.5 [4]	ND<0.5	ND<0.5
Toluene			5		ND<0.5	0.52	ND<0.5
Ethylbenzene			5		ND<0.5	ND<0.5	ND<0.5
Total Xylenes			5		ND<1	ND<1	ND<1
TICH			500		4.6	6.3	ND
Acetone			None [6]		55	200	ND<50
SVOCs [5]							
Phenol and 4-methylphenol			100,000		ND<2.2	12.3	ND<2.0
Others							
Hydrocarbon - Oil & Grease [7]			100,000		ND<2,000	ND<2,000	ND<2,000

Notes:

1) The non-listed constituents were not detected at or above their reported practical quantitation limit (PQL).
2) Discharge limits as defined in EBMUD Wastewater Discharge Permit No. 5024981 2 and EBMUD Ordinance No. 311.
3) The samples were analyzed by US EPA Method 8260B.
4) ND<0.5 - Constituent not detected at or above the reported PQL (0.5 ug/l in this case).
5) The samples were analyzed by US EPA Method 8270C. Total discharge limit on phenolic compounds per Ordinance No. 311 is 100,000 ug/l.
6) No discharge limit defined in EBMUD Wastewater Discharge Permit No. 5024981 2 or EBMUD Ordinance No. 311.
7) The samples were analyzed by US EPA Method 1664-SGT.
µg/l denotes micrograms per liter.
SVOC denotes volatile organic compound.
TICH denotes total identifiable chlorinated hydrocarbons.
VOC denotes volatile organic compound.

ANALYTICAL DATA

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CLIENT: **SHAW E&I**

PROJECT: **ALAMEDA POINT, CTO 133**

SDG: **07D305**

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GC/MS-VOA	METHOD 5030B/8260B	2000 – 2039
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 05-08-2007
EMAX Batch No.: 07D305

Attn: Rose Condit

Shaw E&I
4005 Port Chicago Hwy
Concord CA 94520

Subject: Laboratory Report
Project: Alameda Point, CTO 133

Enclosed is the Laboratory report for samples received on 04/27/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
133-4-2-INF(04/26/07)	D305-01	04/26/07	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

07D305

Shaw 0629

CHAIN OF CUSTODY

Ref. Document # 133-007

Page 1 of 1

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 108816
Project Name / Location: Alameda CTO 133
Purchase Order #: 41926

Project Manager: John McGuire
(name & phone #)

Shipment Date: 4/26/2007
Waybill Number: 1Z 89V 462 01 9104 9889
Lab Destination: EMAX, 1835 205th St., Torrance, 90501
Lab Contact Name / ph. #: Ye-Myint, 310-618-8889

Send Report To: Rose Condit
Phone/Fax Number: 925-288-2151
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Norman Hanelt

Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	VOCs (8260B)- Full 8260 list					Cooler Temp				
							Preservative (water)	HCL									
							Preservative (soil)	Ice									
								3-VOA									
133-4-2-inf(04/26/07)	Influent to GAC - 4-2	04/26/07	9:00	G	WW	3		X									
Temp Blank													X				

Special Instructions: T= 3.9° c

Turnaround Time: 10 day ☐ 24-hr ☐ 48-hr ☐ 5-day

Level Of QC Required: I II III Project Specific:

Relinquished By: Date: 4/26/2007 Time:

Received By: UPS - 1Z 89V 462 01 9104 9889 Date: Time:

Relinquished By: Date: Time:

Received By: Date: 4/27/07 Time: 1006

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07D305
☐ Client Delivery		Recepient JONLUNA
☑ Third Party UPS		Date 4-27-07
		Time 1000

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☐ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety Issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 3.9 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID ~~/COC ID~~	Discrepancy Code	Corrective Action Code
01		0845	D3	R2

REVIEWS

Sample Labeling _____ Date 4/27/07

SRF _____ Date 4/27/07

PM _____ Date 4/27/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	_____
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	_____		
C3	Leaking container	H2	_____		
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

UPS CampusShip: View/Print Label

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**

   Customers without a Daily Pickup

   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

   Take your package to a location of The UPS Store®, UPS Drop Box, UPS Customer Center or Authorized Shipping Outlet near you. Items sent via UPS Return Services (including Ground Returns) are accepted at any UPS Drop Box.
   To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup

   Your driver will pickup your shipment(s) as usual.

FOLD HERE

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

SHAW E&I

ALAMEDA POINT, CTO 133

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07D305

CASE NARRATIVE

CLIENT: SHAW E&I

PROJECT: ALAMEDA POINT, CTO 133

SDG: 07D305

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

One (1) water sample was received on 04/27/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blanks were free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : SHAW E&I
Project : ALAMEDA POINT, CTO 133

SDG NO. : 07D305
Instrument ID : T-094

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V094D60Q	1	NA	05/01/0704:35	05/01/0704:35	RDD656	RCD411	V094D60	Method Blank
LCS1W	V094D60L	1	NA	05/01/0702:38	05/01/0702:38	RDD653	RCD411	V094D60	Lab Control Sample (LCS)
LCD1W	V094D60C	1	NA	05/01/0703:18	05/01/0703:18	RDD654	RCD411	V094D60	LCS Duplicate
133-4-2-INF(04/26/07)	D305-01	1	NA	05/01/0705:53	05/01/0705:53	RDD658	RCD411	V094D60	Field Sample
MBLK2W	V094E08Q	1	NA	05/03/0704:22	05/03/0704:22	RED060	RCD411	V094E08	Method Blank
LCS2W	V094E08L	1	NA	05/03/0702:26	05/03/0702:26	RED057	RCD411	V094E08	Lab Control Sample (LCS)
LCD2W	V094E08C	1	NA	05/03/0703:04	05/03/0703:04	RED058	RCD411	V094E08	LCS Duplicate
133-4-2-INF(04/26/07)DL	D305-01T	10	NA	05/03/0706:19	05/03/0706:19	RED063	RCD411	V094E08	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	04/26/07
Project	: ALAMEDA POINT, CTO 133	Date Received:	04/27/07
Batch No.	: 07D305	Date Extracted:	05/01/07 05:53
Sample ID:	133-4-2-INF(04/26/07)	Date Analyzed:	05/01/07 05:53
Lab Samp ID:	D305-01	Dilution Factor:	1
Lab File ID:	RDD658	Matrix	: WATER
Ext Btch ID:	VO94D60	% Moisture	: NA
Calib. Ref.:	RCD411	Instrument ID	: T-094

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,1-TRICHLOROETHANE	ND	0.50	0.20
1,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,2-TRICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHANE	1.3	0.50	0.20
1,1-DICHLOROETHENE	6.7	0.50	0.20
1,1-DICHLOROPROPENE	ND	0.50	0.20
1,2,3-TRICHLOROBENZENE	ND	0.50	0.20
1,2,3-TRICHLOROPROPANE	ND	0.50	0.50
1,2,4-TRICHLOROBENZENE	ND	0.50	0.20
1,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	0.50	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	0.50	0.20
1,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
1,3-DICHLOROBENZENE	ND	0.50	0.20
1,3-DICHLOROPROPANE	ND	0.50	0.20
1,4-DICHLOROBENZENE	ND	0.50	0.20
2,2-DICHLOROPROPANE	ND	0.50	0.20
2-CHLOROTOLUENE	ND	0.50	0.20
4-CHLOROTOLUENE	ND	0.50	0.20
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	0.50	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
BROMOMETHANE	ND	0.50	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	0.50	0.20
CHLOROETHANE	ND	0.50	0.20
CHLOROFORM	ND	0.50	0.20
CHLOROMETHANE	ND	0.50	0.20
CIS-1,2-DICHLOROETHENE	0.35J	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
DIBROMOMETHANE	ND	0.50	0.20
DICHLORODIFLUOROMETHANE	ND	0.50	0.30
ETHYLBENZENE	ND	0.50	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	0.50	0.20
M/P-XYLENES	ND	1.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	0.50	0.20
N-PROPYLBENZENE	ND	0.50	0.20
NAPHTHALENE	ND	0.50	0.50
O-XYLENE	ND	0.50	0.20
P-ISOPROPYLTOLUENE	ND	0.50	0.20
SEC-BUTYLBENZENE	ND	0.50	0.20
STYRENE	ND	0.50	0.20
TERT-BUTYLBENZENE	ND	0.50	0.20
TETRACHLOROETHYLENE	ND	0.50	0.20
TOLUENE	0.55	0.50	0.20
TRANS-1,2-DICHLOROETHENE	ND	0.50	0.20
TRICHLOROETHENE	ND	0.50	0.20
TRICHLOROFLUOROMETHANE	ND	0.50	0.20
VINYL CHLORIDE	ND	0.50	0.20
ACETONE	280E	10	5.0
2-BUTANONE	130E	10	5.0
MTBE	ND	1.0	0.20
TERT-BUTANOL	ND	20	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
2-HEXANONE	5.7J	10	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	70-140
TOLUENE-D8	92	70-140
4-BROMOFLUOROBENZENE	97	70-130

RL/Reporting Limit

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	04/26/07
Project	: ALAMEDA POINT, CTO 133	Date Received:	04/27/07
Ba[illegible] No.	: 07D305	Date Extracted:	05/03/07 06:19
S[illegible] ID:	133-4-2-INF(04/26/07)DL	Date Analyzed:	05/03/07 06:19
Lab[illegible]amp ID:	D305-01T	Dilution Factor:	10
Lab File ID:	RED063	Matrix	: WATER
Ext Btch ID:	V094E08	% Moisture	: NA
Calib. Ref.:	RCD411	Instrument ID	: T-094

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	7.6	5.0	2.0
1,1-DICHLOROPROPENE	ND	5.0	2.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	5.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	2.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	20	5.0
1,2-DICHLOROBENZENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
1,2-ETHYLENEDIBROMIDE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	2.0
1,3-DICHLOROBENZENE	ND	5.0	2.0
1,3-DICHLOROPROPANE	ND	5.0	2.0
1,4-DICHLOROBENZENE	ND	5.0	2.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	2.0
4-CHLOROTOLUENE	ND	5.0	2.0
BENZENE	ND	5.0	2.0
BROMOBENZENE	ND	5.0	2.0
BROMOCHLOROMETHANE	ND	10	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	3.0
BROMOMETHANE	ND	5.0	2.0
CA[illegible] TETRACHLORIDE	ND	5.0	2.0
C[illegible]BENZENE	ND	5.0	2.0
CH[illegible]ETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
DIBROMOMETHANE	ND	5.0	2.0
DICHLORODIFLUOROMETHANE	ND	5.0	3.0
ETHYLBENZENE	ND	5.0	2.0
HEXACHLOROBUTADIENE	ND	10	2.0
ISOPROPYL BENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	5.0
METHYLENE CHLORIDE	ND	10	5.0
N-BUTYLBENZENE	ND	5.0	2.0
N-PROPYLBENZENE	ND	5.0	2.0
NAPHTHALENE	ND	5.0	5.0
O-XYLENE	ND	5.0	2.0
P-ISOPROPYLTOLUENE	ND	5.0	2.0
SEC-BUTYLBENZENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TERT-BUTYLBENZENE	ND	5.0	2.0
TETRACHLOROETHYLENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	150	100	50
2-BUTANONE	68J	100	50
MTBE	ND	10	2.0
TERT-BUTANOL	ND	200	50
4-METHYL-2-PENTANONE	ND	100	50
2-HEXANONE	ND	100	50

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	70-140
TOLUENE-D8	96	70-140
4-BROMOFLUOROBENZENE	98	70-130

RL[illegible]eporting Limit

QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	NA
Project	: ALAMEDA POINT, CTO 133	Date Received:	05/01/07
Ba[illegible] No.	: 07D305	Date Extracted:	05/01/07 04:35
Sa[illegible] ID:	MBLK1W	Date Analyzed:	05/01/07 04:35
Lab [illegible]mp ID:	V094D60Q	Dilution Factor:	1
Lab File ID:	RDD656	Matrix	: WATER
Ext Btch ID:	V094D60	% Moisture	: NA
Calib. Ref.:	RCD411	Instrument ID	: T-094

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,1-TRICHLOROETHANE	ND	0.50	0.20
1,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,2-TRICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHENE	ND	0.50	0.20
1,1-DICHLOROPROPENE	ND	0.50	0.20
1,2,3-TRICHLOROBENZENE	ND	0.50	0.20
1,2,3-TRICHLOROPROPANE	ND	0.50	0.50
1,2,4-TRICHLOROBENZENE	ND	0.50	0.20
1,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	0.50	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	0.50	0.20
1,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
1,3-DICHLOROBENZENE	ND	0.50	0.20
1,3-DICHLOROPROPANE	ND	0.50	0.20
1,4-DICHLOROBENZENE	ND	0.50	0.20
2,2-DICHLOROPROPANE	ND	0.50	0.20
2-CHLOROTOLUENE	ND	0.50	0.20
4-CHLOROTOLUENE	ND	0.50	0.20
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	0.50	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
BROMOMETHANE	ND	0.50	0.20
CAR[illegible] TETRACHLORIDE	ND	0.50	0.20
CH[illegible]BENZENE	ND	0.50	0.20
CHL[illegible]ETHANE	ND	0.50	0.20
CHLOROFORM	ND	0.50	0.20
CHLOROMETHANE	ND	0.50	0.20
CIS-1,2-DICHLOROETHENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
DIBROMOMETHANE	ND	0.50	0.20
DICHLORODIFLUOROMETHANE	ND	0.50	0.30
ETHYLBENZENE	ND	0.50	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	0.50	0.20
M/P-XYLENES	ND	1.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	0.50	0.20
N-PROPYLBENZENE	ND	0.50	0.20
NAPHTHALENE	ND	0.50	0.50
O-XYLENE	ND	0.50	0.20
P-ISOPROPYLTOLUENE	ND	0.50	0.20
SEC-BUTYLBENZENE	ND	0.50	0.20
STYRENE	ND	0.50	0.20
TERT-BUTYLBENZENE	ND	0.50	0.20
TETRACHLOROETHYLENE	ND	0.50	0.20
TOLUENE	ND	0.50	0.20
TRANS-1,2-DICHLOROETHENE	ND	0.50	0.20
TRICHLOROETHENE	ND	0.50	0.20
TRICHLOROFLUOROMETHANE	ND	0.50	0.20
VINYL CHLORIDE	ND	0.50	0.20
ACETONE	ND	10	5.0
2-BUTANONE	ND	10	5.0
MTBE	ND	1.0	0.20
TERT-BUTANOL	ND	20	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	70-140
TOLUENE-D8	93	70-130
4-BROMOFLUOROBENZENE	99	70-130

RL[illegible]porting Limit

2007

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: SHAW E&I
PROJECT: ALAMEDA POINT, CTO 133
BATCH NO.: 07D305
M[illegible]D: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V094D60Q	V094D60L	V094D60C		
LAB FILE ID:	RDD656	RDD653	RDD654		
DATE EXTRACTED:	05/01/0704:35	05/01/0702:38	05/01/0703:18	DATE COLLECTED:	NA
DATE ANALYZED:	05/01/0704:35	05/01/0702:38	05/01/0703:18	DATE RECEIVED:	05/01/07
PREP. BATCH:	V094D60	V094D60	V094D60		
CALIB. REF:	RCD411	RCD411	RCD411		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	7.85	78	10.0	8.08	81	3	60-130	30
Benzene	ND	10.0	8.38	84	10.0	8.71	87	4	70-130	30
Chlorobenzene	ND	10.0	9.37	94	10.0	9.76	98	4	70-130	30
Toluene	ND	10.0	8.81	88	10.0	9.20	92	4	70-130	30
Trichloroethene	ND	10.0	7.90	79	10.0	8.18	82	3	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.4	104	10.0	10.5	105	70-140
Toluene-d8	10.0	9.10	91	10.0	9.14	91	70-130
4-Bromofluorobenzene	10.0	9.69	97	10.0	9.82	98	70-130

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	NA
Project	: ALAMEDA POINT, CTO 133	Date Received:	05/03/07
Batch No.	: 07D305	Date Extracted:	05/03/07 04:22
Sample ID:	MBLK2W	Date Analyzed:	05/03/07 04:22
Lab Samp ID:	V094E08Q	Dilution Factor:	1
Lab File ID:	RED06Q	Matrix	: WATER
Ext Btch ID:	V094E08	% Moisture	: NA
Calib. Ref.:	RCD411	Instrument ID	: T-094

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,1-TRICHLOROETHANE	ND	0.50	0.20
1,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,2-TRICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHENE	ND	0.50	0.20
1,1-DICHLOROPROPENE	ND	0.50	0.20
1,2,3-TRICHLOROBENZENE	ND	0.50	0.20
1,2,3-TRICHLOROPROPANE	ND	0.50	0.50
1,2,4-TRICHLOROBENZENE	ND	0.50	0.20
1,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	0.50	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	0.50	0.20
1,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
1,3-DICHLOROBENZENE	ND	0.50	0.20
1,3-DICHLOROPROPANE	ND	0.50	0.20
1,4-DICHLOROBENZENE	ND	0.50	0.20
2,2-DICHLOROPROPANE	ND	0.50	0.20
2-CHLOROTOLUENE	ND	0.50	0.20
4-CHLOROTOLUENE	ND	0.50	0.20
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	0.50	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
BROMOMETHANE	ND	0.50	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHLOROBENZENE	ND	0.50	0.20
CHLOROETHANE	ND	0.50	0.20
CHLOROFORM	ND	0.50	0.20
CHLOROMETHANE	ND	0.50	0.20
CIS-1,2-DICHLOROETHENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
DIBROMOMETHANE	ND	0.50	0.20
DICHLORODIFLUOROMETHANE	ND	0.50	0.30
ETHYLBENZENE	ND	0.50	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	0.50	0.20
M/P-XYLENES	ND	1.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	0.50	0.20
N-PROPYLBENZENE	ND	0.50	0.20
NAPHTHALENE	ND	0.50	0.50
O-XYLENE	ND	0.50	0.20
P-ISOPROPYLTOLUENE	ND	0.50	0.20
SEC-BUTYLBENZENE	ND	0.50	0.20
STYRENE	ND	0.50	0.20
TERT-BUTYLBENZENE	ND	0.50	0.20
TETRACHLOROETHYLENE	ND	0.50	0.20
TOLUENE	ND	0.50	0.20
TRANS-1,2-DICHLOROETHENE	ND	0.50	0.20
TRICHLOROETHENE	ND	0.50	0.20
TRICHLOROFLUOROMETHANE	ND	0.50	0.20
VINYL CHLORIDE	ND	0.50	0.20
ACETONE	ND	10	5.0
2-BUTANONE	ND	10	5.0
MTBE	ND	1.0	0.20
TERT-BUTANOL	ND	20	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	70-140
TOLUENE-D8	98	70-130
4-BROMOFLUOROBENZENE	99	70-130

RL Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: SHAW E&I
PROJECT: ALAMEDA POINT, CTO 133
BATCH NO.: 07D305
METHOD: SW 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1
SAMPLE ID:	MBLK2W		
LAB SAMP ID:	V094E08Q	V094E08L	V094E08C
LAB FILE ID:	RED060	RED057	RED058
DATE EXTRACTED:	05/03/0704:22	05/03/0702:26	05/03/0703:04
DATE ANALYZED:	05/03/0704:22	05/03/0702:26	05/03/0703:04
PREP. BATCH:	V094E08	V094E08	V094E08
CALIB. REF:	RCD411	RCD411	RCD411

DATE COLLECTED: NA
DATE RECEIVED: 05/03/07

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	10.6	106	10.0	10.8	108	2	60-130	30
Benzene	ND	10.0	10.1	101	10.0	10.3	103	2	70-130	30
Chlorobenzene	ND	10.0	10.1	101	10.0	10.1	101	0	70-130	30
Toluene	ND	10.0	10.4	104	10.0	10.5	105	1	70-130	30
Trichloroethene	ND	10.0	9.45	94	10.0	9.71	97	3	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.2	102	70-140
Toluene-d8	10.0	9.69	97	10.0	9.74	97	70-130
4-Bromofluorobenzene	10.0	9.63	96	10.0	9.71	97	70-130

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
La ile ID: RCD405
In ment ID: T-094
GC column:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07D305
BFB Injection Date : 03/20/07
BFB Injection Time : 10:54
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.96
75	30.0 - 60.0% of mass 95	45.55
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.86
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	77.84
175	5.0 - 9.0% of mass 174	5.73(7.4)1
176	95.0 - 101.0% of mass 174	74.73(96.0)1
177	5.0 - 9.0% of mass 176	4.83(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V094C2001	RCD406	03/20/07	11:33
2	VSTD0.5	V094C2002	RCD407	03/20/07	12:11
3	VSTD01	V094C2003	RCD408	03/20/07	12:50
4	VSTD02	V094C2004	RCD409	03/20/07	13:29
5	VSTD05	V094C2005	RCD410	03/20/07	14:08
6	VSTD010	V094C2006	RCD411	03/20/07	14:46
7	VSTD020	V094C2007	RCD412	03/20/07	15:25
8	VSTD030	V094C2008	RCD413	03/20/07	16:03
9	VSTD040	V094C2009	RCD414	03/20/07	16:42
10	VSTD050	V094C2010	RCD415	03/20/07	17:20
11	VSTD010	IV094C2001	RCD418	03/20/07	19:16

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

ıstrument ID :TO94
·ginning DateTime :03/20/07 11:33
ɔike Units :PPB
: File :RCD411

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :03/20/07 17:20
HPChem Method :VO94C20

IDX	Parameters	.3 11:33 RCD406	.5 12:11 RCD407	1 12:50 RCD408	2 13:29 RCD409	5 14:08 RCD410	10 14:46 RCD411	20 15:25 RCD412	30 16:03 RCD413	40 16:42 RCD414	50 17:20 RCD415	Av_RRF	%_RSD	Av_Rt_M
1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.8637
2	Dichlorodifluoromethane	0.275	0.225	0.258	0.245	0.248	0.246	0.242	0.238	0.226	0.217	0.242	7.04	4.2553
3	Chloromethane	------	0.385	0.521	0.388	0.378	0.379	0.372	0.351	0.334	------	0.388	14.57	4.8300
4	Vinyl chloride	------	0.332	0.370	0.351	0.330	0.302	0.255	------	------	------	0.323	12.58	4.9410
5	Bromomethane	------	0.301	0.273	0.229	0.223	0.223	0.224	0.216	0.207	0.195	0.232	14.38	5.7350
6	Chloroethane	0.292	0.224	0.237	0.227	0.222	0.222	0.218	0.208	0.198	0.185	0.223	12.79	5.8478
7	Dichlorofluoromethane	0.556	0.529	0.553	0.592	0.568	0.565	0.548	0.530	0.517	0.485	0.544	5.54	5.8814
8	Trichlorofluoromethane	0.380	0.306	0.346	0.347	0.349	0.348	0.350	0.343	0.327	0.310	0.341	6.30	6.2674
9	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
10	Acrolein	------	------	------	0.011	0.014	0.013	0.013	0.013	0.013	0.012	0.013	8.45	6.8807
11	1,1,2-Trichloro-1,2,2-trifluoroethane	0.215	0.225	0.228	0.249	0.236	0.233	0.227	0.226	0.221	0.209	0.227	4.92	6.9196
12	Acetone	------	0.056	0.048	0.042	0.042	0.038	0.039	------	------	------	0.044	14.81	6.9541
13	1,1-Dichloroethene	0.453	0.450	0.464	0.508	0.485	0.480	0.465	0.457	0.450	0.423	0.464	5.00	7.2443
14	tert-Butyl alcohol	0.012	0.012	0.012	0.013	0.014	0.013	0.013	0.013	0.012	0.012	0.013	4.25	7.2530
15	Methyl acetate	0.120	0.120	0.114	0.110	0.117	0.119	0.114	0.114	0.110	0.104	0.114	4.51	7.6362
16	Iodomethane	0.387	0.359	0.394	0.431	0.435	0.443	0.445	0.449	0.440	0.419	0.420	7.21	7.7970
17	Methylene chloride	------	0.528	0.497	0.479	0.441	0.424	0.404	0.397	0.385	0.367	0.436	12.58	7.9610
18	Carbon disulfide	1.149	1.115	1.160	1.286	1.239	1.220	1.187	1.165	1.145	1.078	1.175	5.19	8.1480
19	Acrylonitrile	0.039	0.044	0.046	0.046	0.048	0.045	0.043	0.043	0.042	0.040	0.044	6.55	8.0763
20	tert-Butyl methyl ether (MTBE)	0.453	0.436	0.455	0.490	0.489	0.470	0.447	0.453	0.440	0.418	0.455	4.95	8.1334
21	trans-1,2-Dichloroethene	0.516	0.499	0.510	0.557	0.535	0.527	0.510	0.503	0.496	0.465	0.512	4.86	8.4229
22	Isopropyl ether (DIPE)	1.192	1.160	1.240	1.299	1.288	1.254	1.201	1.203	1.173	1.106	1.212	4.93	8.7534
23	Vinyl acetate	0.374	0.310	0.317	0.370	0.415	0.400	0.375	0.381	0.386	0.365	0.369	8.93	8.9157
24	1,1-Dichloroethane	0.682	0.632	0.677	0.715	0.685	0.669	0.644	0.636	0.629	0.588	0.656	5.56	9.0414
25	tert-Butyl ethyl ether (ETBE)	0.750	0.719	0.770	0.817	0.826	0.799	0.767	0.773	0.754	0.718	0.769	4.79	9.3705
26	2-Butanone	0.056	0.062	0.064	0.060	0.068	0.063	0.060	0.060	0.059	0.057	0.061	5.93	9.5708
27	2,2-Dichloropropane	0.473	0.474	0.497	0.515	0.494	0.479	0.459	0.450	0.441	0.412	0.469	6.43	9.8925
28	cis-1,2-Dichloroethene	0.553	0.549	0.571	0.610	0.585	0.577	0.557	0.548	0.538	0.503	0.559	5.16	9.9613
29	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
30	Chloroform	0.526	0.507	0.535	0.569	0.550	0.541	0.525	0.526	0.517	0.487	0.528	4.31	10.1981
31	Bromochloromethane	0.247	0.245	0.260	0.277	0.270	0.265	0.250	0.250	0.241	0.224	0.253	6.14	10.4760
32	Tetrahydrofuran	------	------	0.077	0.066	0.052	0.046	0.041	0.041	0.039	0.037	0.050	28.91	10.5021
33	1,1,1-Trichloroethane	0.430	0.429	0.445	0.484	0.467	0.466	0.453	0.449	0.446	0.421	0.449	4.35	10.8430
34	Cyclohexane	1.118	0.830	0.783	0.780	0.826	0.843	0.839	0.810	0.790	0.741	0.836	12.44	10.9264
35	tert-Amyl methyl ether (TAME)	0.637	0.591	0.637	0.682	0.681	0.658	0.634	0.638	0.624	0.595	0.638	4.82	11.1501
36	1,2-Dichloroethane-d4	------	------	0.229	0.223	0.236	0.243	0.214	0.216	0.221	0.206	0.223	5.45	11.2972
37	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.9952
38	1,1-Dichloropropene	0.211	0.220	0.205	0.218	0.210	0.207	0.196	0.197	0.192	0.182	0.204	5.86	11.0740
39	Carbon tetrachloride	0.400	0.397	0.420	0.450	0.438	0.441	0.431	0.428	0.424	0.404	0.423	4.27	11.2934
40	1,2-Dichloroethane	0.341	0.313	0.336	0.345	0.327	0.320	0.307	0.304	0.302	0.285	0.318	6.06	11.4513
41	Benzene	1.857	1.656	1.634	1.713	1.613	1.597	1.540	1.521	1.513	1.420	1.606	7.56	11.5449
42	Trichloroethene	0.458	0.422	0.453	0.489	0.464	0.468	0.450	0.445	0.440	0.419	0.451	4.63	12.5642
43	Methylcyclohexane	0.668	0.842	0.835	0.830	0.865	0.894	0.888	0.858	0.840	0.790	0.831	7.77	12.7294
44	1,2-Dichloropropane	0.468	0.439	0.424	0.446	0.426	0.421	0.401	0.395	0.390	0.367	0.418	7.13	12.8567
45	Bromodichloromethane	0.360	0.368	0.390	0.424	0.419	0.422	0.411	0.409	0.404	0.386	0.399	5.68	13.3085
46	Dibromomethane	0.144	0.147	0.150	0.163	0.155	0.154	0.146	0.147	0.143	0.137	0.149	4.97	13.4518
47	2-Chloroethyl vinyl ether	------	------	------	0.018	0.015	0.014	0.015	0.016	0.017	0.017	0.016	8.93	13.6638
48	4-Methyl-2-pentanone	0.140	0.162	0.166	0.172	0.191	0.178	0.171	0.175	0.171	0.166	0.169	7.68	13.7209

CT
3/23/07

49	cis-1,3-Dichloropropene	0.526	0.482	0.505	0.536	0.518	0.521	0.501	0.499	0.491	0.465	0.504	4.26	14.2385
50	Toluene-d8	1.388	1.375	1.433	1.383	1.433	1.503	1.401	1.397	1.389	1.296	1.400	3.75	14.7869
51	Toluene	1.727	1.634	1.696	1.787	1.729	1.715	1.658	1.621	1.608	1.502	1.668	4.86	14.9478
52	Ethyl methacrylate	0.236	0.236	0.249	0.270	0.271	0.263	0.253	0.255	0.249	0.238	0.252	5.23	14.9960
53	trans-1,3-Dichloropropene	0.326	0.325	0.330	0.370	0.364	0.361	0.350	0.353	0.347	0.330	0.346	4.86	15.1730
54	2-Hexanone	0.089	0.100	0.110	0.112	0.126	0.119	0.114	0.115	0.112	0.108	0.110	9.14	15.4025
55	1,1,2-Trichloroethane	0.187	0.185	0.202	0.212	0.209	0.204	0.192	0.194	0.190	0.181	0.196	5.35	15.5473
56	1,3-Dichloropropane	0.395	0.380	0.397	0.415	0.404	0.397	0.378	0.379	0.372	0.354	0.387	4.55	16.0547
57	Tetrachloroethene	0.363	0.342	0.351	0.375	0.362	0.359	0.348	0.344	0.342	0.321	0.351	4.28	16.3252
58	Dibromochloromethane	0.217	0.202	0.221	0.244	0.246	0.246	0.240	0.243	0.240	0.230	0.233	6.49	16.7479
59	1,2-Dibromoethane	0.179	0.178	0.192	0.203	0.204	0.197	0.190	0.191	0.188	0.178	0.190	5.00	17.1982
60	1-Chlorohexane	0.783	0.737	0.757	0.836	0.802	0.797	0.774	0.760	0.754	0.711	0.771	4.59	17.3137
61	Chlorobenzene	1.023	0.971	1.006	1.082	1.042	1.027	0.995	0.975	0.963	0.907	0.999	4.88	18.0844
62	1,1,1,2-Tetrachloroethane	0.298	0.277	0.300	0.321	0.319	0.320	0.308	0.307	0.303	0.285	0.304	4.87	18.1253
63	Ethylbenzene	1.976	1.852	1.919	2.060	1.997	1.991	1.929	1.881	1.853	1.673	1.913	5.64	18.1239
64	m-Xylene & p-Xylene	1.446	1.346	1.399	1.514	1.475	1.471	1.429	1.380	------	------	1.432	3.86	18.2831
65	o-Xylene	1.420	1.309	1.381	1.490	1.434	1.423	1.390	1.360	1.358	1.270	1.384	4.60	19.3052
66	Styrene	1.001	0.945	1.003	1.092	1.075	1.072	1.041	1.021	1.014	0.960	1.022	4.74	19.3637
67	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	24.5499
68	Isopropylbenzene	5.483	5.127	5.245	5.702	5.386	5.394	5.232	5.237	5.235	4.792	5.283	4.51	20.0802
69	Bromoform	------	0.261	0.307	0.333	0.347	0.356	0.347	0.361	0.356	0.344	0.335	9.52	20.2750
70	1,1,2,2-Tetrachloroethane	0.610	0.605	0.607	0.673	0.651	0.645	0.611	0.626	0.613	0.583	0.622	4.26	20.4590
71	4-Bromofluorobenzene	1.566	1.293	1.299	1.257	1.260	1.325	1.233	1.239	1.235	1.160	1.287	8.40	20.7236
72	1,2,3-Trichloropropane	0.116	0.107	0.121	0.140	0.103	0.107	0.099	0.098	0.098	0.093	0.108	13.01	20.8157
73	trans-1,4-Dichloro-2-butene	------	0.158	0.128	0.150	0.192	0.182	0.180	0.182	0.180	0.140	0.166	13.57	20.8957
74	n-Propylbenzene	7.027	6.511	6.750	7.290	6.967	6.997	6.892	6.884	6.613	5.021	6.695	9.38	21.0263
75	Bromobenzene	0.969	0.957	0.991	1.079	1.016	1.011	0.974	0.972	0.969	1.388	1.033	12.57	21.2743
76	1,3,5-Trimethylbenzene	3.949	3.730	3.944	4.233	4.073	4.098	4.007	3.977	3.979	3.727	3.972	3.90	21.3825
77	2-Chlorotoluene	3.789	3.844	3.636	4.050	3.907	3.841	3.708	3.714	3.620	3.482	3.759	4.32	21.5434
78	4-Chlorotoluene	3.681	3.126	3.513	3.606	3.355	3.435	3.359	3.304	3.437	3.107	3.392	5.47	21.6311
79	tert-Butylbenzene	3.726	3.504	3.623	3.891	3.744	3.710	3.626	3.601	3.640	3.374	3.644	3.85	22.2570
80	1,2,4-Trimethylbenzene	3.876	3.611	3.748	4.067	3.986	3.986	3.870	3.850	3.846	3.630	3.847	3.88	22.3594
81	sec-Butylbenzene	6.036	5.637	5.909	6.330	6.154	6.155	6.066	6.029	5.956	5.314	5.959	4.87	22.7703
82	p-Isopropyltoluene	4.545	4.181	4.369	4.767	4.654	4.702	4.616	4.589	4.586	4.274	4.528	4.22	23.0671
83	1,3-Dichlorobenzene	2.174	1.977	2.092	2.236	2.151	2.133	2.066	2.059	2.054	1.933	2.087	4.34	23.4342
84	1,4-Dichlorobenzene	2.022	1.904	1.995	2.121	2.051	2.037	1.978	1.960	1.947	1.848	1.986	3.92	23.6769
85	n-Butylbenzene	4.448	4.136	4.333	4.754	4.740	4.784	4.696	4.685	4.662	4.350	4.559	4.92	24.0659
86	1,2-Dichlorobenzene	1.702	1.589	1.663	1.746	1.702	1.677	1.624	1.622	1.603	1.515	1.644	4.09	24.6172
87	1,2-Dibromo-3-chloropropane	------	0.058	0.084	0.090	0.092	0.091	0.089	0.090	0.089	0.085	0.085	12.25	26.5039
88	1,2,4-Trichlorobenzene	1.034	0.951	1.048	1.130	1.171	1.151	1.119	1.119	1.094	1.040	1.086	6.16	28.6868
89	Hexachlorobutadiene	0.733	0.686	0.723	0.816	0.816	0.819	0.810	0.797	0.764	0.715	0.768	6.53	28.9910
90	Naphthalene	1.214	1.121	1.179	1.270	1.355	1.368	1.314	1.334	1.332	1.288	1.278	6.40	29.4151
91	1,2,3-Trichlorobenzene	0.793	0.737	0.808	0.875	0.899	0.891	0.862	0.863	0.838	0.800	0.837	6.13	30.0555

ɔike Amount = Nominal Amount * M

ve_%RSD : 6.8 Max_%RSD : 28.9

e Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15

sp_Ratio = xo + x1 * Amt_Ratio

	Parameter	x0	x1	CCF
2	etrahydrofuran	0.00491	0.03794	0.9986

3/23/97

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07C20\RCD418.D Vial: 15
Acq On : 20 Mar 2007 7:16 pm Operator: AS
Sample : IVO94C2001 10/20/50ppb Inst : TO94
Misc : 10ppb 8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	104	0.00	
2	T	Dichlorodifluoromethane	10.000	9.888	1.1	101	0.01	
3	P,T	Chloromethane	10.000	9.330	6.7	99	0.00	
4	C,T	Vinyl chloride	10.000	9.215	7.9	102	0.01	
5	T	Bromomethane	10.000	9.570	4.3	103	0.00	
6	T	Chloroethane	10.000	9.491	5.1	99	0.00	
7	T	Dichlorofluoromethane	10.000	9.933	0.7	99	0.00	
8	T	Trichlorofluoromethane	10.000	9.977	0.2	101	0.00	
9	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00	
10	T	Acrolein	20.000	19.997	0.0	98	0.00	
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.909	0.9	100	0.00	
12	T	Acetone	20.000	16.541	17.3	99	0.00	
13	C,T,M	1,1-Dichloroethene	10.000	9.919	0.8	99	0.00	
14	T	tert-Butyl alcohol	50.000	48.686	2.6	98	0.00	
15	T	Methyl acetate	10.000	0.531	94.7#	5	0.01	not valid'd
16	T	Iodomethane	10.000	10.006	-0.1	98	0.00	
17	T	Methylene chloride	10.000	9.167	8.3	98	0.00	
18	T	Carbon disulfide	10.000	9.846	1.5	98	0.00	
19	T	Acrylonitrile	30.000	29.415	2.0	98	0.00	
20	T	tert-Butyl methyl ether (MT	10.000	9.736	2.6	98	0.00	
21	T	trans-1,2-Dichloroethene	10.000	9.865	1.3	99	0.00	
22	T	Isopropyl ether (DIPE)	10.000	9.771	2.3	98	0.00	
23	T	Vinyl acetate	10.000	10.371	-3.7	99	0.01	
24	P,T	1,1-Dichloroethane	10.000	9.713	2.9	99	0.00	
25	T	tert-Butyl ethyl ether (ETB	10.000	9.856	1.4	98	0.01	
26	T	2-Butanone	20.000	19.013	4.9	95	0.00	
27	T	2,2-Dichloropropane	10.000	9.793	2.1	100	0.00	
28	T	cis-1,2-Dichloroethene	10.000	9.858	1.4	99	0.00	
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00	
30	C,T	Chloroform	10.000	9.808	1.9	99	0.00	
31	T	Bromochloromethane	10.000	9.863	1.4	98	0.00	
32	T	Tetrahydrofuran	10.000	9.987	0.1	97	0.00	
33	T	1,1,1-Trichloroethane	10.000	9.968	0.3	100	0.00	
34	T	Cyclohexane	10.000	0.071	99.3#	1	-0.12	Not Valid'd
35	T	tert-Amyl methyl ether (TAM	10.000	9.781	2.2	98	0.00	
36	S	1,2-Dichloroethane-d4	10.000	9.809	1.9	94	0.00	
37	I	CHLOROBENZENE-D5	10.000	10.000	0.0	104	0.01	
38	T	1,1-Dichloropropene	10.000	9.818	1.8	101	0.00	
39	T	Carbon tetrachloride	10.000	10.051	-0.5	101	0.00	
40	T	1,2-Dichloroethane	10.000	9.670	3.3	100	0.00	

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07C20\RCD418.D Vial: 15
Acq On : 20 Mar 2007 7:16 pm Operator: AS
Sample : IVO94C2001 10/20/50ppb Inst : TO94
Misc : 10ppb 8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T,M	Benzene	10.000	9.466	5.3	99	0.00
42	T,M	Trichloroethene	10.000	9.854	1.5	99	0.00
43	T	Methylcyclohexane	10.000	0.027	99.7#	0	0.01 Not Valid'd
44	C,T	1,2-Dichloropropane	10.000	9.565	4.4	99	0.00
45	T	Bromodichloromethane	10.000	9.968	0.3	98	0.00
46	T	Dibromomethane	10.000	9.712	2.9	97	0.00
47	T	2-Chloroethyl vinyl ether	10.000	10.120	-1.2	120	0.00
48	T	4-Methyl-2-pentanone	20.000	19.964	0.2	99	0.00
49	T	cis-1,3-Dichloropropene	10.000	9.755	2.4	98	0.00
50	S	Toluene-d8	10.000	9.565	4.4	93	0.00
51	C,T,M	Toluene	10.000	9.797	2.0	99	0.00
52	T	Ethyl methacrylate	10.000	9.803	2.0	98	0.00
53	T	trans-1,3-Dichloropropene	10.000	9.929	0.7	99	0.00
54	T	2-Hexanone	20.000	20.046	-0.2	97	0.00
[illegible]	T	1,1,2-Trichloroethane	10.000	9.774	2.3	98	0.00
56	T	1,3-Dichloropropane	10.000	9.616	3.8	98	0.00
57	T	Tetrachloroethene	10.000	9.798	2.0	100	0.00
58	T	Dibromochloromethane	10.000	10.035	-0.4	99	0.00
59	T	1,2-Dibromoethane	10.000	9.807	1.9	98	0.00
60	T	1-Chlorohexane	10.000	9.934	0.7	100	0.00
61	P,M	Chlorobenzene	10.000	9.800	2.0	99	0.01
62	T	1,1,1,2-Tetrachloroethane	10.000	9.975	0.3	99	0.00
63	C,T	Ethylbenzene	10.000	9.958	0.4	100	0.00
64	T	m-Xylene & p-Xylene	20.000	19.612	1.9	100	0.00
65	T	o-Xylene	10.000	9.870	1.3	100	0.00
66	T	Styrene	10.000	9.986	0.1	99	0.00
67	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	104	0.00
68	T	Isopropylbenzene	10.000	9.793	2.1	100	0.00
69	P,T	Bromoform	10.000	9.941	0.6	97	0.00
70	P,T	1,1,2,2-Tetrachloroethane	10.000	9.640	3.6	97	0.00
71	S	4-Bromofluorobenzene	10.000	9.217	7.8	93	0.00
72	T	1,2,3-Trichloropropane	10.000	8.849	11.5	93	0.00
73	T	trans-1,4-Dichloro-2-butene	10.000	10.675	-6.8	101	0.00
74	T	n-Propylbenzene	10.000	10.058	-0.6	100	0.00
75	T	Bromobenzene	10.000	9.378	6.2	100	0.00
76	T	1,3,5-Trimethylbenzene	10.000	9.913	0.9	100	0.00
77	T	2-Chlorotoluene	10.000	9.675	3.2	98	0.00
78	T	4-Chlorotoluene	10.000	9.724	2.8	100	0.00
[illegible]	T	tert-Butylbenzene	10.000	9.797	2.0	100	0.00
[illegible]	T	1,2,4-Trimethylbenzene	10.000	9.903	1.0	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07C20\RCD418.D Vial: 15
Acq On : 20 Mar 2007 7:16 pm Operator: AS
Sample : IVO94C2001 10/20/50ppb Inst : TO94
Misc : 10ppb 8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	10.000	9.966	0.3	100	0.00
82	T	p-Isopropyltoluene	10.000	9.967	0.3	100	0.00
83	T	1,3-Dichlorobenzene	10.000	9.742	2.6	99	0.00
84	T	1,4-Dichlorobenzene	10.000	9.800	2.0	99	0.00
85	T	n-Butylbenzene	10.000	10.086	-0.9	100	0.01
86	T	1,2-Dichlorobenzene	10.000	9.671	3.3	99	0.00
87	T	1,2-Dibromo-3-chloropropane	10.000	9.866	1.3	96	0.00
88	T	1,2,4-Trichlorobenzene	10.000	10.072	-0.7	99	0.01
89	T	Hexachlorobutadiene	10.000	10.444	-4.4	102	0.00
90	T	Naphthalene	10.000	9.898	1.0	96	0.00
91	T	1,2,3-Trichlorobenzene	10.000	10.057	-0.6	98	0.00

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

3/23/07

2018

DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RDD650
Instrument ID: T-094
GC Column:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 070305
BFB Injection Date : 05/01/07
BFB Injection Time : 00:42
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.84
75	30.0 - 60.0% of mass 95	44.31
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.32
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.27
175	5.0 - 9.0% of mass 174	5.37(7.2)1
176	95.0 - 101.0% of mass 174	71.69(96.5)1
177	5.0 - 9.0% of mass 176	4.51(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV094C2087	RDD651	05/01/07	01:21
2	MBLK1W	V094D60Q	RDD656	05/01/07	04:35
3	LCS1W	V094D60L	RDD653	05/01/07	02:38
4	LCD1W	V094D60C	RDD654	05/01/07	03:18
5	133-4-2-INF(04/26/07)	D305-01	RDD658	05/01/07	05:53

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RCD411
Instrument ID: T-094
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: ALAMEDA POINT, CTO 133
SDG No.: 07D305
Date Analyzed: 03/20/07
Time Analyzed: 14:46
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2971747	11.86	2473278	17.99	867440	24.56
	UPPER LIMIT	5943494	12.36	4946556	18.49	1734880	25.06
	LOWER LIMIT	1485874	11.36	1236639	17.49	433720	24.06
	SAMPLE ID						
1	VSTD010	2218823	11.87	1940976	18.01	731947	24.56
2	MBLK1W	2341074	11.87	2004096	18.01	740220	24.56
3	LCS1W	2273416	11.87	1975969	18.01	756789	24.56
4	LCD1W	2257466	11.87	1951957	18.01	740224	24.56
5	133-4-2-INF(04/26/07)	2416580	11.88	2087929	18.01	796462	24.56

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CVO94C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	75	0.00	
2	T	Dichlorodifluoromethane	10.000	8.861	11.4	65	0.02	
3	P,T	Chloromethane	10.000	8.940	10.6	68	0.03	
4	C,T	Vinyl chloride	10.000	10.100	-1.0	81	0.02	
5	T	Bromomethane	10.000	9.118	8.8	71	0.00	
6	T	Chloroethane	10.000	10.933	-9.3	82	0.02	
7	T	Dichlorofluoromethane	10.000	9.949	0.5	72	0.00	
8	T	Trichlorofluoromethane	10.000	10.854	-8.5	79	0.02	
9	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00	
10	T	Acrolein	20.000	27.725	-38.6#	98	0.00	NTC
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	8.165	18.4	59	0.00	
12	T	Acetone	20.000	21.220	-6.1	92	0.02	
13	C,T,M	1,1-Dichloroethene	10.000	8.071	19.3	58	0.02	
14	T	tert-Butyl alcohol	50.000	59.404	-18.8	86	0.00	
15	T	Methyl acetate	10.000	0.974	90.3#	7	0.02	NTC
16	T	Iodomethane	10.000	7.078	29.2#	50	0.00	NTC
17	T	Methylene chloride	10.000	9.418	5.8	72	0.02	
18	T	Carbon disulfide	10.000	4.651	53.5#	33	0.00	NTC
19	T	Acrylonitrile	30.000	37.055	-23.5#	89	0.00	NTC
20	T	tert-Butyl methyl ether (MT	10.000	10.980	-9.8	79	0.00	
21	T	trans-1,2-Dichloroethene	10.000	8.115	18.8	59	0.00	
22	T	Isopropyl ether (DIPE)	10.000	11.861	-18.6	86	0.02	
23	T	Vinyl acetate	10.000	10.983	-9.8	76	0.02	
24	P,T	1,1-Dichloroethane	10.000	10.072	-0.7	74	0.00	
25	T	tert-Butyl ethyl ether (ETB	10.000	11.034	-10.3	79	0.02	
26	T	2-Butanone	20.000	25.739	-28.7#	93	0.02	NTC
27	T	2,2-Dichloropropane	10.000	8.802	12.0	64	0.02	
28	T	cis-1,2-Dichloroethene	10.000	9.855	1.4	71	0.00	
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.02	
30	C,T	Chloroform	10.000	10.223	-2.2	74	0.00	
31	T	Bromochloromethane	10.000	10.655	-6.5	76	0.00	
32	T	Tetrahydrofuran	10.000	12.682	-26.8#	87	0.00	NTC
33	T	1,1,1-Trichloroethane	10.000	9.650	3.5	69	0.02	
34	T	Cyclohexane	10.000	0.421	95.8#	3	-0.06	NTC
35	T	tert-Amyl methyl ether (TAM	10.000	10.872	-8.7	79	0.02	
36	S	1,2-Dichloroethane-d4	10.000	10.461	-4.6	72	0.02	
37	I	CHLOROBENZENE-D5	10.000	10.000	0.0	78	0.02	
38	T	1,1-Dichloropropene	10.000	7.898	21.0#	61	0.00	NTC
39	T	Carbon tetrachloride	10.000	8.463	15.4	64	0.00	
40	T	1,2-Dichloroethane	10.000	9.423	5.8	74	0.00	

(#) = Out of Range

2022

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CVO94C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
41	T,M	Benzene	10.000	8.596	14.0	68	0.02	
42	T,M	Trichloroethene	10.000	8.098	19.0	61	0.00	
43	T	Methylcyclohexane	10.000	0.015	99.8#	0	0.02	NTC
44	C,T	1,2-Dichloropropane	10.000	10.339	-3.4	80	0.00	
45	T	Bromodichloromethane	10.000	10.289	-2.9	76	0.00	
46	T	Dibromomethane	10.000	9.756	2.4	74	0.00	
47	T	2-Chloroethyl vinyl ether	10.000	16.007	-60.1#	142	0.00	NTC D28 D28
48	T	4-Methyl-2-pentanone	20.000	25.525	-27.6#	95	0.00	" D30 D30
49	T	cis-1,3-Dichloropropene	10.000	9.440	5.6	72	0.02	
50	S	Toluene-d8	10.000	9.037	9.6	66	0.00	
51	C,T,M	Toluene	10.000	9.096	9.0	69	0.00	
52	T	Ethyl methacrylate	10.000	10.842	-8.4	81	0.02	
53	T	trans-1,3-Dichloropropene	10.000	9.741	2.6	73	0.02	
	T	2-Hexanone	20.000	24.687	-23.4#	90	0.00	NTC D28 D28
55	T	1,1,2-Trichloroethane	10.000	10.684	-6.8	81	0.00	
56	T	1,3-Dichloropropane	10.000	10.237	-2.4	78	0.00	
57	T	Tetrachloroethene	10.000	7.682	23.2#	59	0.00	>20% D2 28
58	T	Dibromochloromethane	10.000	10.147	-1.5	75	0.00	
59	T	1,2-Dibromoethane	10.000	9.788	2.1	74	0.00	Past 30% D3
60	T	1-Chlorohexane	10.000	9.302	7.0	71	0.00	
61	P,M	Chlorobenzene	10.000	9.589	4.1	73	0.02	
62	T	1,1,1,2-Tetrachloroethane	10.000	9.788	2.1	73	0.02	
63	C,T	Ethylbenzene	10.000	9.755	2.4	74	0.00	
64	T	m-Xylene & p-Xylene	20.000	18.785	6.1	72	0.00	
65	T	o-Xylene	10.000	9.880	1.2	75	0.00	
66	T	Styrene	10.000	10.339	-3.4	77	0.00	
67	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	84	0.00	
68	T	Isopropylbenzene	10.000	9.246	7.5	76	0.00	
69	P,T	Bromoform	10.000	9.768	2.3	78	0.02	
70	P,T	1,1,2,2-Tetrachloroethane	10.000	10.656	-6.6	87	0.00	
71	S	4-Bromofluorobenzene	10.000	9.805	2.0	80	0.00	
72	T	1,2,3-Trichloropropane	10.000	10.434	-4.3	89	0.02	
73	T	trans-1,4-Dichloro-2-butene	10.000	10.427	-4.3	80	0.00	
74	T	n-Propylbenzene	10.000	9.528	4.7	77	0.00	
75	T	Bromobenzene	10.000	8.810	11.9	76	0.00	
76	T	1,3,5-Trimethylbenzene	10.000	9.285	7.1	76	0.00	
77	T	2-Chlorotoluene	10.000	9.285	7.1	77	0.00	
	T	4-Chlorotoluene	10.000	9.664	3.4	81	0.00	
	T	tert-Butylbenzene	10.000	9.274	7.3	77	0.00	
80	T	1,2,4-Trimethylbenzene	10.000	9.373	6.3	76	0.00	

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CVO94C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	10.000	9.727	2.7	79	0.00
82	T	p-Isopropyltoluene	10.000	9.147	8.5	74	0.00
83	T	1,3-Dichlorobenzene	10.000	9.157	8.4	76	0.00
84	T	1,4-Dichlorobenzene	10.000	9.185	8.1	76	0.00
85	T	n-Butylbenzene	10.000	9.818	1.8	79	0.02
86	T	1,2-Dichlorobenzene	10.000	9.461	5.4	78	0.00
87	T	1,2-Dibromo-3-chloropropane	10.000	10.426	-4.3	82	0.00
88	T	1,2,4-Trichlorobenzene	10.000	9.435	5.6	75	0.02
89	T	Hexachlorobutadiene	10.000	9.362	6.4	74	0.02
90	T	Naphthalene	10.000	9.617	3.8	76	0.02
91	T	1,2,3-Trichlorobenzene	10.000	9.520	4.8	75	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CVO94C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	75	0.00
2	T	Dichlorodifluoromethane	0.242	0.214	11.6	65	0.02
3	P,T	Chloromethane	0.388	0.347	10.6	68	0.03
4	C,T	Vinyl chloride	0.323	0.327	-1.2	81	0.02
5	T	Bromomethane	0.232	0.212	8.6	71	0.00
6	T	Chloroethane	0.223	0.244	-9.4	82	0.02
7	T	Dichlorofluoromethane	0.544	0.541	0.6	72	0.00
8	T	Trichlorofluoromethane	0.341	0.370	-8.5	79	0.02
9	T	sec-Propyl alcohol	0.000	0.000#	0.0	0#	0.00
10	T	Acrolein	0.013	0.017	-30.8#	98	0.00
11	T	1,1,2-Trichloro-1,2,2-trifl	0.227	0.185	18.5	59	0.00
12	T	Acetone	0.044	0.047	-6.8	92	0.02
13	C,T,M	1,1-Dichloroethene	0.464	0.374	19.4	58	0.02
14	T	tert-Butyl alcohol	0.013	0.015	-15.4	86	0.00
15	T	Methyl acetate	0.114	0.011	90.4#	7#	0.02
16	T	Iodomethane	0.420	0.298	29.0#	50	0.00
17	T	Methylene chloride	0.436	0.411	5.7	72	0.02
18	T	Carbon disulfide	1.175	0.546	53.5#	33#	0.00
19	T	Acrylonitrile	0.044	0.054	-22.7#	89	0.00
20	T	tert-Butyl methyl ether (MT	0.455	0.500	-9.9	79	0.00
21	T	trans-1,2-Dichloroethene	0.512	0.415	18.9	59	0.00
22	T	Isopropyl ether (DIPE)	1.212	1.437	-18.6	86	0.02
23	T	Vinyl acetate	0.369	0.406	-10.0	76	0.02
24	P,T	1,1-Dichloroethane	0.656	0.660	-0.6	74	0.00
25	T	tert-Butyl ethyl ether (ETB	0.769	0.849	-10.4	79	0.02
26	T	2-Butanone	0.061	0.078	-27.9#	93	0.02
27	T	2,2-Dichloropropane	0.469	0.413	11.9	64	0.02
28	T	cis-1,2-Dichloroethene	0.559	0.551	1.4	71	0.00
29	T	tert-Butyl formate (TBF)	0.000	0.000#	0.0	0#	0.02
30	C,T	Chloroform	0.528	0.540	-2.3	74	0.00
31	T	Bromochloromethane	0.253	0.269	-6.3	76	0.00
32	T	Tetrahydrofuran	0.050	0.053	-6.0	87	0.00
33	T	1,1,1-Trichloroethane	0.449	0.433	3.6	69	0.02
34	T	Cyclohexane	0.836	0.035	95.8#	3#	-0.06
35	T	tert-Amyl methyl ether (TAM	0.638	0.693	-8.6	79	0.02
36	S	1,2-Dichloroethane-d4	0.223	0.234	-4.9	72	0.02
37	I	CHLOROBENZENE-D5	1.000	1.000	0.0	78	0.02
38	T	1,1-Dichloropropene	0.204	0.161	21.1#	61	0.00
39	T	Carbon tetrachloride	0.423	0.358	15.4	64	0.00
40	T	1,2-Dichloroethane	0.318	0.300	5.7	74	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CVO94C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T,M	Benzene	1.606	1.381	14.0	68	0.02
42	T,M	Trichloroethene	0.451	0.365	19.1	61	0.00
43	T	Methylcyclohexane	0.831	0.001#	99.9#	0#	0.02
44	C,T	1,2-Dichloropropane	0.418	0.432	-3.3	80	0.00
45	T	Bromodichloromethane	0.399	0.411	-3.0	76	0.00
46	T	Dibromomethane	0.149	0.145	2.7	74	0.00
47	T	2-Chloroethyl vinyl ether	0.016	0.026	-62.5#	142	0.00
48	T	4-Methyl-2-pentanone	0.169	0.216	-27.8#	95	0.00
49	T	cis-1,3-Dichloropropene	0.504	0.476	5.6	72	0.02
50	S	Toluene-d8	1.400	1.265	9.6	66	0.00
51	C,T,M	Toluene	1.668	1.517	9.1	69	0.00
52	T	Ethyl methacrylate	0.252	0.273	-8.3	81	0.02
53	T	trans-1,3-Dichloropropene	0.346	0.337	2.6	73	0.02
[illegible]	T	2-Hexanone	0.110	0.136	-23.6#	90	0.00
55	T	1,1,2-Trichloroethane	0.196	0.209	-6.6	81	0.00
56	T	1,3-Dichloropropane	0.387	0.397	-2.6	78	0.00
57	T	Tetrachloroethene	0.351	0.269	23.4#	59	0.00
58	T	Dibromochloromethane	0.233	0.236	-1.3	75	0.00
59	T	1,2-Dibromoethane	0.190	0.186	2.1	74	0.00
60	T	1-Chlorohexane	0.771	0.717	7.0	71	0.00
61	P,M	Chlorobenzene	0.999	0.958	4.1	73	0.02
62	T	1,1,1,2-Tetrachloroethane	0.304	0.297	2.3	73	0.02
63	C,T	Ethylbenzene	1.913	1.866	2.5	74	0.00
64	T	m-Xylene & p-Xylene	1.432	1.345	6.1	72	0.00
65	T	o-Xylene	1.384	1.367	1.2	75	0.00
66	T	Styrene	1.022	1.057	-3.4	77	0.00
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	84	0.00
68	T	Isopropylbenzene	5.283	4.885	7.5	76	0.00
69	P,T	Bromoform	0.335	0.327	2.4	78	0.02
70	P,T	1,1,2,2-Tetrachloroethane	0.622	0.663	-6.6	87	0.00
71	S	4-Bromofluorobenzene	1.287	1.262	1.9	80	0.00
72	T	1,2,3-Trichloropropane	0.108	0.113	-4.6	89	0.02
73	T	trans-1,4-Dichloro-2-butene	0.166	0.173	-4.2	80	0.00
74	T	n-Propylbenzene	6.695	6.380	4.7	77	0.00
75	T	Bromobenzene	1.033	0.910	11.9	76	0.00
76	T	1,3,5-Trimethylbenzene	3.972	3.688	7.2	76	0.00
77	T	2-Chlorotoluene	3.759	3.490	7.2	77	0.00
[illegible]	T	4-Chlorotoluene	3.392	3.278	3.4	81	0.00
[illegible]	T	tert-Butylbenzene	3.644	3.380	7.2	77	0.00
80	T	1,2,4-Trimethylbenzene	3.847	3.606	6.3	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07D30\RDD651.D Vial: 3
Acq On : 1 May 2007 1:21 am Operator: AS
Sample : CV094C2087 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	5.959	5.796	2.7	79	0.00
82	T	p-Isopropyltoluene	4.528	4.142	8.5	74	0.00
83	T	1,3-Dichlorobenzene	2.087	1.912	8.4	76	0.00
84	T	1,4-Dichlorobenzene	1.986	1.824	8.2	76	0.00
85	T	n-Butylbenzene	4.559	4.476	1.8	79	0.02
86	T	1,2-Dichlorobenzene	1.644	1.556	5.4	78	0.00
87	T	1,2-Dibromo-3-chloropropane	0.085	0.089	-4.7	82	0.00
88	T	1,2,4-Trichlorobenzene	1.086	1.024	5.7	75	0.02
89	T	Hexachlorobutadiene	0.768	0.719	6.4	74	0.02
90	T	Naphthalene	1.278	1.229	3.8	76	0.02
91	T	1,2,3-Trichlorobenzene	0.837	0.796	4.9	75	0.00

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

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

.ab Name: EMAX Inc
.ab Code: EMXT Case No.:
.ab ... e ID: RED054
ns ... ent ID: T-094
;C C... mn:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07D305
BFB Injection Date : 05/03/07
BFB Injection Time : 00:29
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.84
75	30.0 - 60.0% of mass 95	42.93
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.74
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	77.30
175	5.0 - 9.0% of mass 174	5.51(7.1)1
176	95.0 - 101.0% of mass 174	74.67(96.6)1
177	5.0 - 9.0% of mass 176	4.79(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV094C2095	RED055	05/03/07	01:08
2	MBLK2W	V094E08Q	RED060	05/03/07	04:22
3	LCS2W	V094E08L	RED057	05/03/07	02:26
4	LCD2W	V094E08C	RED058	05/03/07	03:04
5	133-4-2-INF(04/26/07)DL	D305-01T	RED063	05/03/07	06:19

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

.ab Name: EMAX Inc
.ab Code: EMXT
.ab File ID: RCD411
Ins' ment ID: T-094
GC (mn: RTX502.2 ID: 0.32mm (mm)

Project: ALAMEDA POINT, CTO 133
SDG No.: 07D305
Date Analyzed: 03/20/07
Time Analyzed: 14:46
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2971747	11.86	2473278	17.99	867440	24.56
	UPPER LIMIT	5943494	12.36	4946556	18.49	1734880	25.06
	LOWER LIMIT	1485874	11.36	1236639	17.49	433720	24.06
	SAMPLE ID						
1	VSTD010	3122440	11.87	2685240	17.99	965759	24.55
2	MBLK2W	3018031	11.87	2576306	18.00	885611	24.55
3	LCS2W	3087771	11.87	2670664	17.99	978955	24.54
4	LCD2W	3053423	11.87	2603613	18.00	926192	24.55
5	133-4-2-INF(04/26/07)DL	2764305	11.87	2417843	17.99	855953	24.54

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	10.000	10.674	-6.7	110	0.00
3	P,T	Chloromethane	10.000	10.009	-0.1	108	0.02
4	C,T	Vinyl chloride	10.000	10.659	-6.6	120	0.00
5	T	Bromomethane	10.000	9.861	1.4	108	0.00
6	T	Chloroethane	10.000	10.653	-6.5	113	0.00
7	T	Dichlorofluoromethane	10.000	10.191	-1.9	103	0.00
8	T	Trichlorofluoromethane	10.000	10.182	-1.8	105	0.02
9	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
10	T	Acrolein	20.000	23.233	-16.2	115	0.00
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.889	1.1	101	0.00
12	T	Acetone	20.000	19.007	5.0	116	0.00
13	C,T,M	1,1-Dichloroethene	10.000	10.808	-8.1	110	0.02
	T	tert-Butyl alcohol	50.000	55.202	-10.4	112	0.00
15	T	Methyl acetate	10.000	0.870	91.3#	9	0.00 NTC
16	T	Iodomethane	10.000	11.139	-11.4	111	0.00
17	T	Methylene chloride	10.000	10.704	-7.0	116	0.00
18	T	Carbon disulfide	10.000	10.983	-9.8	111	0.00
19	T	Acrylonitrile	30.000	32.048	-6.8	109	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.641	-6.4	108	0.00
21	T	trans-1,2-Dichloroethene	10.000	10.882	-8.8	111	0.00
22	T	Isopropyl ether (DIPE)	10.000	11.272	-12.7	114	0.00
23	T	Vinyl acetate	10.000	11.074	-10.7	107	0.00
24	P,T	1,1-Dichloroethane	10.000	10.580	-5.8	109	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	10.637	-6.4	108	0.00
26	T	2-Butanone	20.000	20.422	-2.1	103	0.00
27	T	2,2-Dichloropropane	10.000	9.511	4.9	98	0.00
28	T	cis-1,2-Dichloroethene	10.000	10.741	-7.4	109	0.00
29	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.02
30	C,T	Chloroform	10.000	10.506	-5.1	108	0.00
31	T	Bromochloromethane	10.000	11.182	-11.8	112	0.00
32	T	Tetrahydrofuran	10.000	12.139	-21.4#	118	0.00 NTC
33	T	1,1,1-Trichloroethane	10.000	10.390	-3.9	105	0.00
34	T	Cyclohexane	10.000	0.451	95.5#	5	-0.06 NTC
35	T	tert-Amyl methyl ether (TAM	10.000	10.715	-7.1	109	0.00
36	S	1,2-Dichloroethane-d4	10.000	9.658	3.4	93	0.00
37	I	CHLOROBENZENE-D5	10.000	10.000	0.0	109	0.00
	T	1,1-Dichloropropene	10.000	10.178	-1.8	109	0.00
39	T	Carbon tetrachloride	10.000	9.917	0.8	103	0.00
40	T	1,2-Dichloroethane	10.000	10.087	-0.9	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T,M	Benzene	10.000	10.183	-1.8	111	0.00
42	T,M	Trichloroethene	10.000	9.626	3.7	101	0.00
43	T	Methylcyclohexane	10.000	0.054	99.5#	1	0.00 NTC
44	C,T	1,2-Dichloropropane	10.000	10.501	-5.0	113	0.00
45	T	Bromodichloromethane	10.000	10.476	-4.8	108	0.00
46	T	Dibromomethane	10.000	10.551	-5.5	110	-0.01
47	T	2-Chloroethyl vinyl ether	10.000	14.558	-45.6#	179	0.00
48	T	4-Methyl-2-pentanone	20.000	20.928	-4.6	108	0.00
49	T	cis-1,3-Dichloropropene	10.000	10.393	-3.9	109	0.00
50	S	Toluene-d8	10.000	9.753	2.5	99	0.00
51	C,T,M	Toluene	10.000	10.588	-5.9	112	0.00
52	T	Ethyl methacrylate	10.000	11.422	-14.2	119	0.00
	T	trans-1,3-Dichloropropene	10.000	10.625	-6.3	110	0.00
	T	2-Hexanone	20.000	20.502	-2.5	103	0.00
55	T	1,1,2-Trichloroethane	10.000	10.751	-7.5	112	0.00
56	T	1,3-Dichloropropane	10.000	10.634	-6.3	113	-0.01
57	T	Tetrachloroethene	10.000	9.639	3.6	102	0.00
58	T	Dibromochloromethane	10.000	10.268	-2.7	105	0.00
59	T	1,2-Dibromoethane	10.000	10.534	-5.3	110	0.00
60	T	1-Chlorohexane	10.000	10.005	-0.1	105	-0.01
61	P,M	Chlorobenzene	10.000	10.119	-1.2	107	0.00
62	T	1,1,1,2-Tetrachloroethane	10.000	10.023	-0.2	103	0.00
63	C,T	Ethylbenzene	10.000	10.791	-7.9	113	0.00
64	T	m-Xylene & p-Xylene	20.000	21.228	-6.1	112	0.00
65	T	o-Xylene	10.000	10.858	-8.6	115	-0.01
66	T	Styrene	10.000	10.968	-9.7	114	0.00
67	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	111	-0.01
68	T	Isopropylbenzene	10.000	10.255	-2.6	112	0.00
69	P,T	Bromoform	10.000	10.181	-1.8	107	0.00
70	P,T	1,1,2,2-Tetrachloroethane	10.000	10.716	-7.2	115	-0.01
71	S	4-Bromofluorobenzene	10.000	9.731	2.7	105	-0.01
72	T	1,2,3-Trichloropropane	10.000	9.740	2.6	110	0.00
73	T	trans-1,4-Dichloro-2-butene	10.000	11.375	-13.8	115	-0.01
74	T	n-Propylbenzene	10.000	10.732	-7.3	114	-0.01
75	T	Bromobenzene	10.000	9.576	4.2	109	-0.01
76	T	1,3,5-Trimethylbenzene	10.000	10.384	-3.8	112	-0.01
77	T	2-Chlorotoluene	10.000	10.602	-6.0	116	0.00
	T	4-Chlorotoluene	10.000	9.673	3.3	106	0.00
79	T	tert-Butylbenzene	10.000	10.056	-0.6	110	-0.01
80	T	1,2,4-Trimethylbenzene	10.000	10.468	-4.7	112	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	10.000	10.542	-5.4	114	-0.01
82	T	p-Isopropyltoluene	10.000	10.146	-1.5	109	0.00
83	T	1,3-Dichlorobenzene	10.000	9.688	3.1	106	0.00
84	T	1,4-Dichlorobenzene	10.000	9.747	2.5	106	-0.01
85	T	n-Butylbenzene	10.000	10.677	-6.8	113	0.00
86	T	1,2-Dichlorobenzene	10.000	9.821	1.8	107	0.00
87	T	1,2-Dibromo-3-chloropropane	10.000	10.761	-7.6	112	-0.01
88	T	1,2,4-Trichlorobenzene	10.000	9.946	0.5	104	0.00
89	T	Hexachlorobutadiene	10.000	9.810	1.9	102	0.00
90	T	Naphthalene	10.000	10.233	-2.3	106	0.00
91	T	1,2,3-Trichlorobenzene	10.000	9.794	2.1	102	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.242	0.258	-6.6	110	0.00
3	P,T	Chloromethane	0.388	0.389	-0.3	108	0.02
4	C,T	Vinyl chloride	0.323	0.345	-6.8	120	0.00
5	T	Bromomethane	0.232	0.229	1.3	108	0.00
6	T	Chloroethane	0.223	0.238	-6.7	113	0.00
7	T	Dichlorofluoromethane	0.544	0.555	-2.0	103	0.00
8	T	Trichlorofluoromethane	0.341	0.347	-1.8	105	0.02
9	T	sec-Propyl alcohol	0.000	0.000#	0.0	0#	0.00
10	T	Acrolein	0.013	0.015	-15.4	115	0.00
11	T	1,1,2-Trichloro-1,2,2-trifl	0.227	0.224	1.3	101	0.00
12	T	Acetone	0.044	0.042	4.5	116	0.00
13	C,T,M	1,1-Dichloroethene	0.464	0.501	-8.0	110	0.02
14	T	tert-Butyl alcohol	0.013	0.014	-7.7	112	0.00
15	T	Methyl acetate	0.114	0.010#	91.2#	9#	0.00
16	T	Iodomethane	0.420	0.468	-11.4	111	0.00
17	T	Methylene chloride	0.436	0.467	-7.1	116	0.00
18	T	Carbon disulfide	1.175	1.290	-9.8	111	0.00
19	T	Acrylonitrile	0.044	0.047	-6.8	109	0.00
20	T	tert-Butyl methyl ether (MT	0.455	0.484	-6.4	108	0.00
21	T	trans-1,2-Dichloroethene	0.512	0.557	-8.8	111	0.00
22	T	Isopropyl ether (DIPE)	1.212	1.366	-12.7	114	0.00
23	T	Vinyl acetate	0.369	0.409	-10.8	107	0.00
24	P,T	1,1-Dichloroethane	0.656	0.694	-5.8	109	0.00
25	T	tert-Butyl ethyl ether (ETB	0.769	0.818	-6.4	108	0.00
26	T	2-Butanone	0.061	0.062	-1.6	103	0.00
27	T	2,2-Dichloropropane	0.469	0.446	4.9	98	0.00
28	T	cis-1,2-Dichloroethene	0.559	0.600	-7.3	109	0.00
29	T	tert-Butyl formate (TBF)	0.000	0.000#	0.0	0#	0.02
30	C,T	Chloroform	0.528	0.555	-5.1	108	0.00
31	T	Bromochloromethane	0.253	0.283	-11.9	112	0.00
32	T	Tetrahydrofuran	0.050	0.051	-2.0	118	0.00
33	T	1,1,1-Trichloroethane	0.449	0.466	-3.8	105	0.00
34	T	Cyclohexane	0.836	0.038	95.5#	5#	-0.06
35	T	tert-Amyl methyl ether (TAM	0.638	0.683	-7.1	109	0.00
36	S	1,2-Dichloroethane-d4	0.223	0.216	3.1	93	0.00
37	I	CHLOROBENZENE-D5	1.000	1.000	0.0	109	0.00
38	T	1,1-Dichloropropene	0.204	0.207	-1.5	109	0.00
39	T	Carbon tetrachloride	0.423	0.420	0.7	103	0.00
40	T	1,2-Dichloroethane	0.318	0.321	-0.9	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T,M	Benzene	1.606	1.636	-1.9	111	0.00
42	T,M	Trichloroethene	0.451	0.434	3.8	101	0.00
43	T	Methylcyclohexane	0.831	0.004#	99.5#	1#	0.00
44	C,T	1,2-Dichloropropane	0.418	0.439	-5.0	113	0.00
45	T	Bromodichloromethane	0.399	0.418	-4.8	108	0.00
46	T	Dibromomethane	0.149	0.157	-5.4	110	-0.01
47	T	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	179	0.00
48	T	4-Methyl-2-pentanone	0.169	0.177	-4.7	108	0.00
49	T	cis-1,3-Dichloropropene	0.504	0.524	-4.0	109	0.00
50	S	Toluene-d8	1.400	1.365	2.5	99	0.00
51	C,T,M	Toluene	1.668	1.766	-5.9	112	0.00
52	T	Ethyl methacrylate	0.252	0.288	-14.3	119	0.00
53	T	trans-1,3-Dichloropropene	0.346	0.367	-6.1	110	0.00
[illegible]	T	2-Hexanone	0.110	0.113	-2.7	103	0.00
55	T	1,1,2-Trichloroethane	0.196	0.210	-7.1	112	0.00
56	T	1,3-Dichloropropane	0.387	0.412	-6.5	113	-0.01
57	T	Tetrachloroethene	0.351	0.338	3.7	102	0.00
58	T	Dibromochloromethane	0.233	0.239	-2.6	105	0.00
59	T	1,2-Dibromoethane	0.190	0.200	-5.3	110	0.00
60	T	1-Chlorohexane	0.771	0.772	-0.1	105	-0.01
61	P,M	Chlorobenzene	0.999	1.011	-1.2	107	0.00
62	T	1,1,1,2-Tetrachloroethane	0.304	0.305	-0.3	103	0.00
63	C,T	Ethylbenzene	1.913	2.064	-7.9	113	0.00
64	T	m-Xylene & p-Xylene	1.432	1.520	-6.1	112	0.00
65	T	o-Xylene	1.384	1.502	-8.5	115	-0.01
66	T	Styrene	1.022	1.121	-9.7	114	0.00
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	111	-0.01
68	T	Isopropylbenzene	5.283	5.418	-2.6	112	0.00
69	P,T	Bromoform	0.335	0.341	-1.8	107	0.00
70	P,T	1,1,2,2-Tetrachloroethane	0.622	0.667	-7.2	115	-0.01
71	S	4-Bromofluorobenzene	1.287	1.252	2.7	105	-0.01
72	T	1,2,3-Trichloropropane	0.108	0.105	2.8	110	0.00
73	T	trans-1,4-Dichloro-2-butene	0.166	0.188	-13.3	115	-0.01
74	T	n-Propylbenzene	6.695	7.185	-7.3	114	-0.01
75	T	Bromobenzene	1.033	0.989	4.3	109	-0.01
76	T	1,3,5-Trimethylbenzene	3.972	4.124	-3.8	112	-0.01
77	T	2-Chlorotoluene	3.759	3.986	-6.0	116	0.00
[illegible]	T	4-Chlorotoluene	3.392	3.281	3.3	106	0.00
[illegible]	T	tert-Butylbenzene	3.644	3.664	-0.5	110	-0.01
80	T	1,2,4-Trimethylbenzene	3.847	4.027	-4.7	112	-0.01

(#) = Out of Range

2034

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07E02\RED055.D Vial: 3
Acq On : 3 May 2007 1:08 am Operator: AS
Sample : CVO94C2095 10/20/50ppb Inst : TO94
Misc : 10ppb8260/20ppbKET-AA/50ppbTBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO94C20.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Mar 23 15:02:12 2007
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	5.959	6.281	-5.4	114	-0.01
82	T	p-Isopropyltoluene	4.528	4.594	-1.5	109	0.00
83	T	1,3-Dichlorobenzene	2.087	2.022	3.1	106	0.00
84	T	1,4-Dichlorobenzene	1.986	1.936	2.5	106	-0.01
85	T	n-Butylbenzene	4.559	4.867	-6.8	113	0.00
86	T	1,2-Dichlorobenzene	1.644	1.615	1.8	107	0.00
87	T	1,2-Dibromo-3-chloropropane	0.085	0.092	-8.2	112	-0.01
88	T	1,2,4-Trichlorobenzene	1.086	1.080	0.6	104	0.00
89	T	Hexachlorobutadiene	0.768	0.753	2.0	102	0.00
90	T	Naphthalene	1.278	1.307	-2.3	106	0.00
91	T	1,2,3-Trichlorobenzene	0.837	0.819	2.2	102	0.00

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

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☒ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 3-20-07 ☐ 5-ml Purge ☒ 25-ml Purge

Book # A94 -017

BATCH V094C20Ø6

Sample Prep ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RCD404	BFB94C34	2 µL				TICHECK
02	405	35					10:54
03	406	V094C2Ø01	.05/.5/2/.03 µL				.3 DCC 8260/.6 Ket-AA/1.5 TBA
04	407	Ø2	.05/.25/.1/.05 µL				.5 / 1 / 2.5
05	408	Ø3	.1/.5/2/.1 µL				1 / 2 / 5
06	409	Ø4	.2/1/4/.2 µL				2 / 4 / 1Ø
07	410	Ø5	.5/2.5/1/.5 µL				5 / 1Ø / 25
08	411	Ø6	1/5/2/1 µL				1Ø / 2Ø / 5Ø
09	412	Ø7	2/1Ø/4/2 µL				2Ø / 4Ø / 1ØØ
10	413	Ø8	3/15/6/3 µL				3Ø / 6Ø / 15Ø
11	414	Ø9	4/2Ø/8/4 µL				4Ø / 8Ø / 2ØØ
12	415	1Ø	5/25/1Ø/5 µL				5Ø / 1ØØ / 25Ø
13	416	Rinse					
14	417	V094C35B					
15	418	IV094C2ØØ1	1/5/2 µL				1Ø / 2Ø / 5Ø
16	419	Ø2					
17	42Ø	IV094C2Ø03	5 µL				CLP. for 3 Add'l(s)
18	421	IS/SS	25 mL	1.Ø			
19	422	Ø7C184-Ø6N			<2		21:49
20							
21							
22							
23							
24							
25							AS 3/21/Ø7

Instrument No.	94
INITIAL CALIBRATION REFERENCE	
DATE	Ø3-2Ø-Ø7
ICAL ID	V094C2Ø

STANDARDS		
NAME	ID	CONC (mg/L)
DCC gases	SVIC-11-69-1	25Ø
DCC 826Ø	69-2	5Ø/25Ø
DCC Ket-AA 3 add'l(s)	58-3 / 72-3	25Ø / 25Ø
BFB	49-3	5Ø
IS/SURR. IS / SS	7Ø-1 / 7Ø-2	25Ø
LCS gas	61-3	25Ø
LCS 826Ø	63-2	5Ø/25Ø/1ØØØ
LCS Ket-AA 3 add'l	57-3 / 43-2	25Ø / 5Ø/75Ø/5ØØ
SOLVENT	ID	
METHANOL		
DATA FILE	Ø7C2Ø	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO94	

Comments:

Analyzed By: AS

Date Disposed: 3-21-Ø7

Disposed By: AS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☒ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 5-1-07 ☐ 5-ml Purge ☒ 25-ml Purge

Book # A94 -017

BATCH VO94C2087

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		RDD649	BFB94D59	2µl				Y/CHECK
02		650	60					0042
03		651	CV094D2087	1/5/2µl				
04		652	88					
05		653	VO94D60L					
06		654	C					
07		655	B	25ml	1.0			
08		656	Q					
09		657	07D281-01			aq		R/R
10		658	07D305-01					R/R @x10
11		659	07D281-02					R/R
12		660	-03					
13		661	07D282-02					
14		662	-03					
15		663	07D304-04					TB
16		664	-01					TB x10
17		665	-02					c/ovlp? R/R @x1
18		666	-03					
19		667	-03M	1/5/2µl				MS
20		668	-03S					MSD 12:20
21		669	Rinse	25ml	1.0			
22								
23								
24								
25								AS 5-1-07

Instrument No.	94
INITIAL CALIBRATION REFERENCE	
DATE	3-20-07
ICAL ID	VO94C20

STANDARDS		
NAME	ID	CONC (mg/L)
DCC 8260	SVC-11-69-1	
DCC 8260	SVC-11-69-2	
DCC Ket-AA	-59-1	
BFB	-49-3	50/250
IS/SURR.	-70-3	
LCS 8260	-61-3	
LCS 8260	-63-2	
LCS Ket-AA	-80-3	
SOLVENT	ID	
METHANOL		
DATA FILE	07D30	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO94	

Comments:

Analyzed By: AS

Date Disposed: 5-1-07

Disposed By: AS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☒ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 5-3-07 ☐ 5-ml Purge ☒ 25-ml Purge

Book # A94 -017

BATCH C V094C2095

Sample Prep ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RED053	BFB94E07	2µl				T/CHECK
02	54	08					00:29
03	55	CV094C2095	1/5µl				
04	56	96					
05	57	V094E08L					
06	58	C					
07	59	B	25mls	1.0			
08	60	D					
09	61	07D282-04T	500µl	50	<2		
10	62	07D259-01T					
11	63	07D305-01T	2.5mls	10			
12	64	07D304-01T					
13	65	07D260-03R	25mls	1.0			
14	66	07D304-02R					
15	67	07D322-01					T@x10
16	68	-02					
17	69	-03					T@x50
18	70	-04					T@x100
19	71	-05					T@x50
20	72	-06					T@x[illegible] 12:09
21	73-4	Rinses					
22							
23							
24							
25							AS 5-3-07

Instrument No.	94
INITIAL CALIBRATION REFERENCE	
DATE	3-20-07
ICAL ID	V094C20

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC gases	SVIC-11-79-3	
DCC 8260	-81-2	
DCC Ket-AA	-80-2	
BFB	-49-3	50/250
IS/SURR.	-79-1	
LCS gases	-80-1	
LCS 8260	-82-1	
LCS Ket-AA	-80-3	
SOLVENT	ID	
METHANOL		
DATA FILE	07E02	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO94	

Comments:

Analyzed By: AS

Date Disposed: 5-3-07

Disposed By: AS

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CLIENT: **SHAW E&I**

PROJECT: **ALAMEDA POINT, CTO 133**

SDG: **07E353**

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GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 06-12-2007
EMAX Batch No.: 07E353

Attn: Rose Condit

Shaw E&I
4005 Port Chicago Hwy
Concord CA 94520

Subject: Laboratory Report
Project: Alameda Point, CTO 133

Enclosed is the Laboratory report for samples received on 05/25/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
133-4-2-INF(05/24/07)	E353-01	05/24/07	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

for

Kam Y. Pang, Ph.D.
Laboratory Director

Shaw SH-0629

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

07E353

Ref. Document # 133-2

Page 1 of 1

Project Number: 108816
Project Name / Location: Alameda CTO 133
Purchase Order #: 41926

Project Manager: John McGuire (Name & phone #)

Shipment Date: 5/24/2007
Waybill Number: 1Z89V4620194840035
Lab Destination: EMAX, 1835 205th St., Torrance, 90501
Lab Contact Name / ph. #: Ye-Myint, 310-618-8889

Send Report To: Rose Condit
Phone/Fax Number: 925-288-2151
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Norman Hanelt

Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	VOCs (8260B)- Full 8260 list					Cooler Temp				
							Preservative (water)	HCL									
							Preservative (soil)	Ice									
							Container Type	3-VOA									
133-4-2-inf(05/24/07)	Influent to GAC - 4-2	05/24/07	7:30	G	WW	3		X									
Temp Blank													X				

Analyses Requested

Special Instructions: T = 3.7°C

Turnaround Time: 10 day ☐ 24-hr ☐ 48-hr ☐ 5-day

Level Of QC Required: I II III Project Specific:

Relinquished By: Date: 5/24/2007 Time:

Received By: UPS 1Z89V4620194840035 Date: Time:

Relinquished By: Date: Time:

Received By: Date: 5/24/07 Time: 1000

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 07E353
☐ EMAX Courier		Recepient JON LUNA
☐ Client Delivery		Date 5-25-07
☑ Third Party UPS	SEE COC	Time 1000

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☐ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety Issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 5.7 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling [signature] Date 5/25/07

SRF [signature] Date 5/25/07

PM [signature] Date 5/29/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	_____
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	_____		
C3	Leaking container	H2	_____		
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

UPS CampusShip: View/Print Label

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

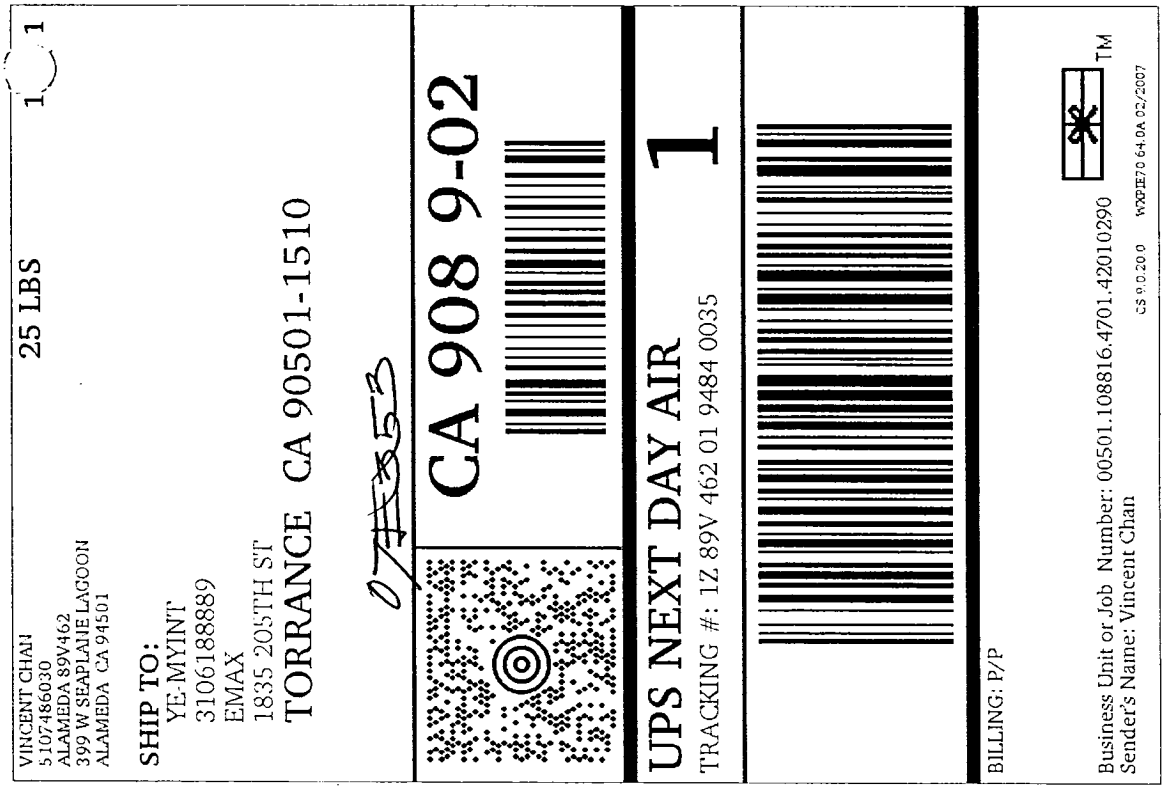
2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**

   Customers without a Daily Pickup
   - Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   - Hand the package to any UPS driver in your area.
   - Take your package to a location of The UPS Store®, UPS Drop Box, UPS Customer Center or Authorized Shipping Outlet near you. Items sent via UPS Return Services (including Ground Returns) are accepted at any UPS Drop Box.
   - To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup
   - Your driver will pickup your shipment(s) as usual.

FOLD HERE



REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

SHAW E&I

ALAMEDA POINT, CTO 133

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07E353

CASE NARRATIVE

CLIENT: SHAW E&I

PROJECT: ALAMEDA POINT, CTO 133

SDG: 07E353

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

One (1) water sample was received on 05/25/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with AFCEE Quality Assurance Project Plan, Rev. 3.0 (1998).

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONIC
VOLATILE ORGANICS BY GC/MS

Client : SHAW E&I
Project : ALAMEDA POINT, CTO 133

SDG NO. : 07E353
Instrument ID : T-067

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V067F01Q	1	NA	06/01/0719:13	06/01/0719:13	RFC007	RBC096	V067F01	Method Blank
LCS1W	V067F01L	1	NA	06/01/0717:22	06/01/0717:22	RFC004	RBC096	V067F01	Lab Control Sample (LCS)
LCD1W	V067F01C	1	NA	06/01/0717:59	06/01/0717:59	RFC005	RBC096	V067F01	LCS Duplicate
133-4-2-INF(05/24/07)	E353-01	1	NA	06/02/0700:49	06/02/0700:49	RFC016	RBC096	V067F01	Field Sample
MBLK2W	V067F14Q	1	NA	06/06/0709:09	06/06/0709:09	RFC154	RBC096	V067F14	Method Blank
LCS2W	V067F14L	1	NA	06/06/0707:17	06/06/0707:17	RFC151	RBC096	V067F14	Lab Control Sample (LCS)
LCD2W	V067F14C	1	NA	06/06/0707:55	06/06/0707:55	RFC152	RBC096	V067F14	LCS Duplicate
133-4-2-INF(05/24/07)DL	E353-01T	5	NA	06/06/0714:01	06/06/0714:01	RFC162	RBC096	V067F14	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	05/24/07
Project	: ALAMEDA POINT, CTO 133	Date Received:	05/25/07
Batch No.	: 07E353	Date Extracted:	06/02/07 00:49
Sa[illegible] ID:	133-4-2-INF(05/24/07)	Date Analyzed:	06/02/07 00:49
La[illegible]p ID:	E353-01	Dilution Factor:	1
Lab [illegible]le ID:	RFC016	Matrix	: WATER
Ext Btch ID:	V067F01	% Moisture	: NA
Calib. Ref.:	RBC096	Instrument ID	: T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,1-TRICHLOROETHANE	ND	0.50	0.20
1,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
1,1,2-TRICHLOROETHANE	ND	0.50	0.20
1,1-DICHLOROETHANE	0.37J	0.50	0.20
1,1-DICHLOROETHENE	3.7	0.50	0.20
1,1-DICHLOROPROPENE	ND	0.50	0.20
1,2,3-TRICHLOROBENZENE	ND	0.50	0.20
1,2,3-TRICHLOROPROPANE	ND	0.50	0.50
1,2,4-TRICHLOROBENZENE	ND	0.50	0.20
1,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	0.50	0.20
1,2-DICHLOROETHANE	ND	0.50	0.20
1,2-DICHLOROPROPANE	ND	0.50	0.20
1,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
1,3-DICHLOROBENZENE	ND	0.50	0.20
1,3-DICHLOROPROPANE	ND	0.50	0.20
1,4-DICHLOROBENZENE	ND	0.50	0.20
2,2-DICHLOROPROPANE	ND	0.50	0.20
2-CHLOROTOLUENE	ND	0.50	0.20
4-CHLOROTOLUENE	ND	0.50	0.20
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	0.50	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
BROMOMETHANE	ND	0.50	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHL[illegible]ENZENE	ND	0.50	0.20
CHL[illegible]THANE	ND	0.50	0.20
CHL[illegible]FORM	ND	0.50	0.20
CHLOROMETHANE	ND	0.50	0.20
CIS-1,2-DICHLOROETHENE	0.34J	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
DIBROMOMETHANE	ND	0.50	0.20
DICHLORODIFLUOROMETHANE	ND	0.50	0.30
ETHYLBENZENE	ND	0.50	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	0.50	0.20
M/P-XYLENES	ND	1.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	0.50	0.20
N-PROPYLBENZENE	ND	0.50	0.20
NAPHTHALENE	ND	0.50	0.50
O-XYLENE	ND	0.50	0.20
P-ISOPROPYLTOLUENE	ND	0.50	0.20
SEC-BUTYLBENZENE	ND	0.50	0.20
STYRENE	ND	0.50	0.20
TERT-BUTYLBENZENE	ND	0.50	0.20
TETRACHLOROETHYLENE	ND	0.50	0.20
TOLUENE	0.37J	0.50	0.20
TRANS-1,2-DICHLOROETHENE	ND	0.50	0.20
TRICHLOROETHENE	ND	0.50	0.20
TRICHLOROFLUOROMETHANE	ND	0.50	0.20
VINYL CHLORIDE	ND	0.50	0.20
ACETONE	160E	10	5.0
2-BUTANONE	19	10	5.0
MTBE	ND	1.0	0.20
TERT-BUTANOL	ND	20	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	71	70-140
TOLUENE-D8	85	70-140
4-BROMOFLUOROBENZENE	89	70-130

RL: Reporting Limit

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	05/24/07
Project	: ALAMEDA POINT, CTO 133	Date Received:	05/25/07
Batch No.	: 07E353	Date Extracted:	06/06/07 14:01
Sample ID	: 133-4-2-INF(05/24/07)DL	Date Analyzed:	06/06/07 14:01
Lab Sample ID	: E353-01T	Dilution Factor:	5
Lab File ID	: RFC162	Matrix	: WATER
Ext Btch ID	: V067F14	% Moisture	: NA
Calib. Ref.	: RBC096	Instrument ID	: T-067

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	2.5	1.0
1,1,1-TRICHLOROETHANE	ND	2.5	1.0
1,1,2,2-TETRACHLOROETHANE	ND	2.5	1.0
1,1,2-TRICHLOROETHANE	ND	2.5	1.0
1,1-DICHLOROETHANE	ND	2.5	1.0
1,1-DICHLOROETHENE	3.9	2.5	1.0
1,1-DICHLOROPROPENE	ND	2.5	1.0
1,2,3-TRICHLOROBENZENE	ND	2.5	1.0
1,2,3-TRICHLOROPROPANE	ND	2.5	2.5
1,2,4-TRICHLOROBENZENE	ND	2.5	1.0
1,2,4-TRIMETHYLBENZENE	ND	2.5	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	10	2.5
1,2-DICHLOROBENZENE	ND	2.5	1.0
1,2-DICHLOROETHANE	ND	2.5	1.0
1,2-DICHLOROPROPANE	ND	2.5	1.0
1,2-ETHYLENEDIBROMIDE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	2.5	1.0
1,3-DICHLOROBENZENE	ND	2.5	1.0
1,3-DICHLOROPROPANE	ND	2.5	1.0
1,4-DICHLOROBENZENE	ND	2.5	1.0
2,2-DICHLOROPROPANE	ND	2.5	1.0
2-CHLOROTOLUENE	ND	2.5	1.0
4-CHLOROTOLUENE	ND	2.5	1.0
BENZENE	ND	2.5	1.0
BROMOBENZENE	ND	2.5	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	2.5	1.0
BROMOFORM	ND	2.5	1.5
BROMOMETHANE	ND	2.5	1.0
CARBON TETRACHLORIDE	ND	2.5	1.0
CHLOROBENZENE	ND	2.5	1.0
CHLOROETHANE	ND	2.5	1.0
CHLOROFORM	ND	2.5	1.0
CHLOROMETHANE	ND	2.5	1.0
CIS-1,2-DICHLOROETHENE	ND	2.5	1.0
DIBROMOCHLOROMETHANE	ND	2.5	1.0
DIBROMOMETHANE	ND	2.5	1.0
DICHLORODIFLUOROMETHANE	ND	2.5	1.5
ETHYLBENZENE	ND	2.5	1.0
HEXACHLOROBUTADIENE	ND	5.0	1.0
ISOPROPYL BENZENE	ND	2.5	1.0
M/P-XYLENES	ND	5.0	2.5
METHYLENE CHLORIDE	ND	5.0	2.5
N-BUTYLBENZENE	ND	2.5	1.0
N-PROPYLBENZENE	ND	2.5	1.0
NAPHTHALENE	ND	2.5	2.5
O-XYLENE	ND	2.5	1.0
P-ISOPROPYLTOLUENE	ND	2.5	1.0
SEC-BUTYLBENZENE	ND	2.5	1.0
STYRENE	ND	2.5	1.0
TERT-BUTYLBENZENE	ND	2.5	1.0
TETRACHLOROETHYLENE	ND	2.5	1.0
TOLUENE	ND	2.5	1.0
TRANS-1,2-DICHLOROETHENE	ND	2.5	1.0
TRICHLOROETHENE	ND	2.5	1.0
TRICHLOROFLUOROMETHANE	ND	2.5	1.0
VINYL CHLORIDE	ND	2.5	1.0
ACETONE	160	50	25
2-BUTANONE	ND	50	25
MTBE	ND	5.0	1.0
TERT-BUTANOL	ND	100	25
4-METHYL-2-PENTANONE	ND	50	25
2-HEXANONE	ND	50	25

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	78	70-140
TOLUENE-D8	95	70-140
4-BROMOFLUOROBENZENE	109	70-130

RL: Reporting Limit

QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

:lient	: SHAW E&I	Date Collected:	NA
'roject	: ALAMEDA POINT, CTO 133	Date Received:	06/01/07
3atch No.	: 07E353	Date Extracted:	06/01/07 19:13
3am \ ID	: MBLK1W	Date Analyzed:	06/01/07 19:13
.ab ID	: V067F01Q	Dilution Factor:	1
.ab File ID	: RFC007	Matrix	: WATER
:xt Btch ID	: V067F01	% Moisture	: NA
:alib. Ref.	: RBC096	Instrument ID	: T-067

'ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
],1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
],1,1-TRICHLOROETHANE	ND	0.50	0.20
],1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
],1,2-TRICHLOROETHANE	ND	0.50	0.20
],1-DICHLOROETHANE	ND	0.50	0.20
],1-DICHLOROETHENE	ND	0.50	0.20
],1-DICHLOROPROPENE	ND	0.50	0.20
],2,3-TRICHLOROBENZENE	ND	0.50	0.20
],2,3-TRICHLOROPROPANE	ND	0.50	0.50
],2,4-TRICHLOROBENZENE	ND	0.50	0.20
],2,4-TRIMETHYLBENZENE	ND	0.50	0.20
],2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
],2-DICHLOROBENZENE	ND	0.50	0.20
],2-DICHLOROETHANE	ND	0.50	0.20
],2-DICHLOROPROPANE	ND	0.50	0.20
],2-ETHYLENEDIBROMIDE	ND	1.0	0.20
],3,5-TRIMETHYLBENZENE	ND	0.50	0.20
],3-DICHLOROBENZENE	ND	0.50	0.20
],3-DICHLOROPROPANE	ND	0.50	0.20
],4-DICHLOROBENZENE	ND	0.50	0.20
!,2-DICHLOROPROPANE	ND	0.50	0.20
!-CHLOROTOLUENE	ND	0.50	0.20
,-CHLOROTOLUENE	ND	0.50	0.20
]ENZENE	ND	0.50	0.20
]ROMOBENZENE	ND	0.50	0.20
]ROMOCHLOROMETHANE	ND	1.0	0.20
]ROMODICHLOROMETHANE	ND	0.50	0.20
]ROMOFORM	ND	0.50	0.30
]ROMOMETHANE	ND	0.50	0.20
:ARBON TETRACHLORIDE	ND	0.50	0.20
:HL ENZENE	ND	0.50	0.20
:HL THANE	ND	0.50	0.20
:HLOROFORM	ND	0.50	0.20
:HLOROMETHANE	ND	0.50	0.20
:IS-1,2-DICHLOROETHENE	ND	0.50	0.20
)IBROMOCHLOROMETHANE	ND	0.50	0.20
)IBROMOMETHANE	ND	0.50	0.20
)ICHLORODIFLUOROMETHANE	ND	0.50	0.30
:THYLBENZENE	ND	0.50	0.20
]EXACHLOROBUTADIENE	ND	1.0	0.20
:SOPROPYL BENZENE	ND	0.50	0.20
]/P-XYLENES	ND	1.0	0.50
]ETHYLENE CHLORIDE	ND	1.0	0.50
]-BUTYLBENZENE	ND	0.50	0.20
]-PROPYLBENZENE	ND	0.50	0.20
]APHTHALENE	ND	0.50	0.50
)-XYLENE	ND	0.50	0.20
)-ISOPROPYLTOLUENE	ND	0.50	0.20
;EC-BUTYLBENZENE	ND	0.50	0.20
;TYRENE	ND	0.50	0.20
'ERT-BUTYLBENZENE	ND	0.50	0.20
'ETRACHLOROETHYLENE	ND	0.50	0.20
'OLUENE	ND	0.50	0.20
'RANS-1,2-DICHLOROETHENE	ND	0.50	0.20
'RICHLOROETHENE	ND	0.50	0.20
'RICHLOROFLUOROMETHANE	ND	0.50	0.20
'INYL CHLORIDE	ND	0.50	0.20
]CETONE	ND	10	5.0
!-BUTANONE	ND	10	5.0
]TBE	ND	1.0	0.20
'ERT-BUTANOL	ND	20	5.0
,-METHYL-2-PENTANONE	ND	10	5.0
!-HEXANONE	ND	10	5.0

;URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	73	70-140
'OLUENE-D8	88	70-130
,-BROMOFLUOROBENZENE	94	70-130

!L: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: SHAW E&I
PROJECT: ALAMEDA POINT, CTO 133
BATCH NO.: Q7E353
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V067F01Q	V067F01L	V067F01C		
LAB FILE ID:	RFC007	RFC004	RFC005		
DATE EXTRACTED:	06/01/0719:13	06/01/0717:22	06/01/0717:59	DATE COLLECTED:	NA
DATE ANALYZED:	06/01/0719:13	06/01/0717:22	06/01/0717:59	DATE RECEIVED:	06/01/07
PREP. BATCH:	V067F01	V067F01	V067F01		
CALIB. REF:	RBC096	RBC096	RBC096		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.02	90	10.0	8.95	90	1	60-130	30
Benzene	ND	10.0	9.58	96	10.0	9.77	98	2	70-130	30
Chlorobenzene	ND	10.0	9.71	97	10.0	9.75	97	0	70-130	30
Toluene	ND	10.0	9.64	96	10.0	9.76	98	1	70-130	30
Trichloroethene	ND	10.0	9.79	98	10.0	9.98	100	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.15	82	10.0	8.07	81	70-140
Toluene-d8	10.0	8.98	90	10.0	9.13	91	70-130
4-Bromofluorobenzene	10.0	9.23	92	10.0	9.11	91	70-130

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

:lient	: SHAW E&I	Date Collected:	NA
'roject	: ALAMEDA POINT, CTO 133	Date Received:	06/06/07
iatc-No.	: 07E353	Date Extracted:	06/06/07 09:09
;ar) ID:	MBLK2W	Date Analyzed:	06/06/07 09:09
.ab p ID:	V067F14Q	Dilution Factor:	1
.ab File ID:	RFC154	Matrix	: WATER
:xt Btch ID:	V067F14	% Moisture	: NA
:alib. Ref.:	RBC096	Instrument ID	: T-067

'ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,1-TRICHLOROETHANE	ND	0.50	0.20
,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,2-TRICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHENE	ND	0.50	0.20
,1-DICHLOROPROPENE	ND	0.50	0.20
,2,3-TRICHLOROBENZENE	ND	0.50	0.20
,2,3-TRICHLOROPROPANE	ND	0.50	0.50
,2,4-TRICHLOROBENZENE	ND	0.50	0.20
,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
,2-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROETHANE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
,3-DICHLOROBENZENE	ND	0.50	0.20
,3-DICHLOROPROPANE	ND	0.50	0.20
,4-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
BENZENE	ND	0.50	0.20
BROMOBENZENE	ND	0.50	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
BROMOMETHANE	ND	0.50	0.20
CARBON TETRACHLORIDE	ND	0.50	0.20
CHL ENZENE	ND	0.50	0.20
CHL THANE	ND	0.50	0.20
CHLOROFORM	ND	0.50	0.20
CHLOROMETHANE	ND	0.50	0.20
CIS-1,2-DICHLOROETHENE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
DIBROMOMETHANE	ND	0.50	0.20
DICHLORODIFLUOROMETHANE	ND	0.50	0.30
ETHYLBENZENE	ND	0.50	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.20
ISOPROPYL BENZENE	ND	0.50	0.20
M/P-XYLENES	ND	1.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	0.50	0.20
N-PROPYLBENZENE	ND	0.50	0.20
NAPHTHALENE	ND	0.50	0.50
O-XYLENE	ND	0.50	0.20
P-ISOPROPYLTOLUENE	ND	0.50	0.20
SEC-BUTYLBENZENE	ND	0.50	0.20
STYRENE	ND	0.50	0.20
TERT-BUTYLBENZENE	ND	0.50	0.20
TETRACHLOROETHYLENE	ND	0.50	0.20
TOLUENE	ND	0.50	0.20
TRANS-1,2-DICHLOROETHENE	ND	0.50	0.20
TRICHLOROETHENE	ND	0.50	0.20
TRICHLOROFLUOROMETHANE	ND	0.50	0.20
VINYL CHLORIDE	ND	0.50	0.20
ACETONE	ND	10	5.0
2-BUTANONE	ND	10	5.0
MTBE	ND	1.0	0.20
TERT-BUTANOL	ND	20	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	78	70-140
TOLUENE-D8	95	70-130
4-BROMOFLUOROBENZENE	105	70-130

RL: porting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: SHAW E&I
PROJECT: ALAMEDA POINT, CTO 133
BATCH NO.: 07E353
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V067F14Q	V067F14L	V067F14C		
LAB FILE ID:	RFC154	RFC151	RFC152		
DATE EXTRACTED:	06/06/0709:09	06/06/0707:17	06/06/0707:55	DATE COLLECTED:	NA
DATE ANALYZED:	06/06/0709:09	06/06/0707:17	06/06/0707:55	DATE RECEIVED:	06/06/07
PREP. BATCH:	V067F14	V067F14	V067F14		
CALIB. REF:	RBC096	RBC096	RBC096		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.16	92	10.0	9.15	91	0	60-130	30
Benzene	ND	10.0	9.90	99	10.0	9.82	98	1	70-130	30
Chlorobenzene	ND	10.0	9.97	100	10.0	9.79	98	2	70-130	30
Toluene	ND	10.0	9.75	98	10.0	9.79	98	0	70-130	30
Trichloroethene	ND	10.0	10.2	102	10.0	10.2	102	0	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.33	83	10.0	7.95	80	70-140
Toluene-d8	10.0	8.97	90	10.0	9.08	91	70-130
4-Bromofluorobenzene	10.0	9.35	93	10.0	9.56	96	70-130

INITIAL CALIBRATION

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBC090
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07E353
BFB Injection Date : 02/08/07
BFB Injection Time : 13:18
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.40
75	30.0 - 60.0% of mass 95	40.39
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.63
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	67.08
175	5.0 - 9.0% of mass 174	4.77(7.1)1
176	95.0 - 101.0% of mass 174	66.72(99.5)1
177	5.0 - 9.0% of mass 176	4.52(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V067B081	RBC091	02/08/07	13:55
2	VSTD0.5	V067B082	RBC092	02/08/07	14:32
3	VSTD01	V067B083	RBC093	02/08/07	15:09
4	VSTD02	V067B084	RBC094	02/08/07	15:46
5	VSTD05	V067B085	RBC095	02/08/07	16:23
6	VSTD010	V067B086	RBC096	02/08/07	17:00
7	VSTD020	V067B087	RBC097	02/08/07	17:37
8	VSTD030	V067B088	RBC098	02/08/07	18:14
9	VSTD040	V067B089	RBC099	02/08/07	18:52
10	VSTD050	V067B0810	RBC100	02/08/07	19:29
11	VSTD010	IV067B081	RBC103	02/08/07	21:20

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T067
Beginning DateTime :02/08/07 13:55
Spike Units :PPB
IC File :RBC096

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/08/07 19:29
HPChem Method :V067B08

M	IDX	Parameters	.3 13:55 RBC091	.5 14:32 RBC092	1 15:09 RBC093	2 15:46 RBC094	5 16:23 RBC095	10 17:00 RBC096	20 17:37 RBC097	30 18:14 RBC098	40 18:52 RBC099	50 19:29 RBC100	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	10.1404
	2	Dichlorodifluoromethane	0.176	0.196	0.228	0.228	0.233	0.261	0.234	0.222	0.233	0.220	0.223	10.33	3.5300
	3	Dichlorotetrafluoroethane	0.295	0.285	0.315	0.334	0.312	0.380	0.332	0.325	0.325	0.305	0.321	8.14	3.7445
	4	Chloromethane	0.208	0.229	0.249	0.259	0.268	0.299	0.273	0.261	0.271	0.259	0.258	9.72	4.0156
	5	Vinyl chloride	0.198	0.224	0.258	0.265	0.260	0.277	0.231	0.194	0.170	0.147	0.222	19.65	4.1690
	6	Bromomethane	0.209	0.269	0.229	0.224	0.209	0.230	0.212	0.203	0.220	0.213	0.222	8.44	4.9018
	7	Chloroethane	0.104	0.108	0.119	0.132	0.138	0.151	0.138	0.131	0.139	0.135	0.129	11.33	5.0061
	8	Dichlorofluoromethane	0.480	0.470	0.462	0.537	0.496	0.479	0.461	0.460	0.479	0.460	0.478	4.96	5.0508
	9	Trichlorofluoromethane	0.233	0.267	0.305	0.318	0.337	0.365	0.339	0.323	0.335	0.320	0.314	12.15	5.3859
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
2	11	Acrolein	------	------	0.012	0.013	0.015	0.017	0.015	0.016	0.017	0.017	0.015	12.83	5.9484
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.197	0.192	0.196	0.234	0.216	0.210	0.204	0.208	0.215	0.205	0.208	5.90	5.9504
2	13	Acetone	------	------	0.038	0.035	0.032	0.029	0.025	0.027	0.029	0.029	0.030	14.18	6.0191
	14	1,1-Dichloroethene	0.366	0.362	0.373	0.431	0.408	0.410	0.389	0.385	0.398	0.379	0.390	5.58	6.2364
5	15	tert-Butyl alcohol	------	------	0.009	0.010	0.010	0.011	0.009	0.010	0.010	0.010	0.010	6.29	6.2816
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	18	Iodomethane	0.264	0.273	0.289	0.380	0.402	0.436	0.438	0.446	0.478	0.457	0.386	21.10	6.7041
	19	Methylene chloride	0.585	0.490	0.426	0.444	0.367	0.387	0.348	0.348	0.369	0.355	0.412	18.67	6.8635
3	20	Acrylonitrile	0.028	0.030	0.033	0.037	0.036	0.040	0.035	0.036	0.039	0.039	0.035	11.30	6.9856
	21	Carbon disulfide	1.110	1.091	1.099	1.267	1.161	1.184	1.141	1.136	1.162	1.121	1.147	4.49	6.9946
	22	tert-Butyl methyl ether (MTBE)	0.316	0.330	0.362	0.417	0.362	0.403	0.356	0.372	0.400	0.401	0.372	8.99	7.0050
	23	trans-1,2-Dichloroethene	0.393	0.381	0.389	0.453	0.435	0.448	0.433	0.435	0.451	0.427	0.424	6.34	7.2403
	24	Isopropyl ether (DIPE)	0.805	0.785	0.831	0.959	0.887	0.937	0.872	0.908	0.967	0.932	0.888	7.22	7.5308
	25	Vinyl acetate	------	0.242	0.254	0.274	0.270	0.313	0.296	0.317	0.349	0.350	0.296	13.23	7.6874
	26	1,1-Dichloroethane	0.535	0.526	0.532	0.611	0.559	0.568	0.536	0.526	0.550	0.527	0.547	4.88	7.7765
	27	tert-Butyl ethyl ether (ETBE)	0.547	0.534	0.579	0.652	0.606	0.649	0.575	0.607	0.644	0.644	0.604	7.21	8.0506
2	28	2-Butanone	------	------	0.054	0.042	0.046	0.051	0.044	0.049	0.053	0.055	0.049	9.82	8.2403
	29	2,2-Dichloropropane	0.375	0.355	0.357	0.406	0.409	0.404	0.387	0.392	0.393	0.381	0.386	4.96	8.4900
	30	cis-1,2-Dichloroethene	0.436	0.434	0.455	0.514	0.495	0.458	0.490	0.450	0.453	0.447	0.463	5.82	8.5526
2	31	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	32	Chloroform	0.496	0.467	0.501	0.571	0.527	0.546	0.513	0.522	0.529	0.524	0.520	5.45	8.7536
	33	Bromochloromethane	0.201	0.212	0.228	0.257	0.231	0.239	0.219	0.225	0.234	0.229	0.228	6.74	8.9979
	34	1,1,1-Trichloroethane	0.380	0.378	0.400	0.450	0.435	0.441	0.420	0.422	0.434	0.416	0.418	5.89	9.2899
	35	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1-Dichloropropene	0.123	0.131	0.132	0.152	0.146	0.150	0.145	0.147	0.151	0.139	0.142	7.08	9.4865
	37	tert-Amyl methyl ether (TAME)	0.462	0.474	0.505	0.583	0.526	0.576	0.517	0.548	0.585	0.579	0.535	8.57	9.5505
	38	1,2-Dichloroethane-d4	------	------	------	0.203	0.202	0.246	0.191	0.190	------	------	0.206	11.10	9.6834
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	15.6902
	40	Carbon tetrachloride	0.415	0.420	0.426	0.476	0.463	0.451	0.431	0.431	0.430	0.417	0.436	4.78	9.6578
	41	1,2-Dichloroethane	0.260	0.265	0.284	0.306	0.300	0.302	0.273	0.278	0.282	0.279	0.283	5.47	9.8052
	42	Benzene	1.475	1.398	1.392	1.510	1.498	1.454	1.379	1.377	1.410	1.351	1.424	3.91	9.8752
	43	Trichloroethene	0.367	0.357	0.374	0.431	0.424	0.414	0.399	0.405	0.416	0.405	0.399	6.24	10.7093
	44	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	45	1,2-Dichloropropane	0.377	0.373	0.375	0.423	0.411	0.408	0.384	0.388	0.393	0.389	0.392	4.31	10.9611
	46	Bromodichloromethane	0.363	0.399	0.394	0.438	0.434	0.440	0.407	0.422	0.435	0.425	0.416	5.92	11.3513
	47	Dibromomethane	0.151	0.167	0.171	0.188	0.181	0.186	0.164	0.172	0.179	0.177	0.174	6.37	11.4824
	48	2-Chloroethyl vinyl ether	------	------	0.024	0.031	0.033	0.040	0.037	0.044	0.047	------	0.037	21.88	11.6711
2	49	4-Methyl-2-pentanone	------	------	0.147	0.141	0.154	0.166	0.144	0.157	0.167	0.176	0.157	7.88	11.7183
	50	cis-1,3-Dichloropropene	0.346	0.342	0.374	0.426	0.440	0.452	0.420	0.450	0.468	0.462	0.418	11.34	12.1824
	51	Toluene-d8	------	------	------	1.217	1.339	1.482	1.319	1.307	1.308	------	1.328	6.49	12.6627
	52	Toluene	1.494	1.480	1.456	1.623	1.611	1.550	1.457	1.504	1.481	1.433	1.509	4.33	12.8155
	53	Ethyl methacrylate	------	0.131	0.146	0.181	0.186	0.211	0.190	0.213	0.223	0.230	0.190	17.71	12.8724
	54	trans-1,3-Dichloropropene	0.218	0.226	0.229	0.282	0.286	0.308	0.287	0.307	0.320	0.319	0.278	14.17	13.0344

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2	55	2-Hexan[illegible]	------	------	0.087	0.076	0.081	0.0[illegible]	[illegible].078	0.088	0.096	0.102	0.087	10.26	13.2487
	56	1,1,2-Trichloroethane	0.198	0.191	0.208	0.225	0.221	0.225	0.198	0.210	0.217	0.217	0.211	5.65	13.3755
	57	1,3-Dichloropropane	0.306	0.327	0.346	0.366	0.356	0.370	0.332	0.351	0.364	0.363	0.348	5.91	13.8477
	58	Tetrachloroethene	0.285	0.282	0.285	0.317	0.318	0.307	0.294	0.294	0.292	0.288	0.296	4.43	14.0770
	59	Dibromochloromethane	0.228	0.232	0.245	0.278	0.276	0.291	0.262	0.277	0.291	0.288	0.267	8.97	14.4971
	60	1,2-Dibromoethane	0.174	0.190	0.199	0.220	0.218	0.226	0.205	0.222	0.229	0.232	0.211	9.05	14.9246
	61	1-Chlorohexane	0.456	0.445	0.477	0.577	0.603	0.610	0.608	0.631	0.628	0.618	0.565	13.28	15.0348
	62	Chlorobenzene	0.933	0.901	0.884	0.981	0.981	0.972	0.914	0.938	0.947	0.918	0.937	3.60	15.7751
	63	1,1,1,2-Tetrachloroethane	0.255	0.260	0.280	0.311	0.305	0.307	0.280	0.290	0.290	0.283	0.286	6.59	15.8212
	64	Ethylbenzene	1.553	1.500	1.514	1.719	1.737	1.736	1.657	1.688	1.686	1.564	1.635	5.70	15.8168
2	65	m-Xylene & p-Xylene	1.142	1.136	1.122	1.287	1.303	1.300	1.251	1.273	1.606	------	1.269	11.55	15.9740
	66	o-Xylene	1.126	1.111	1.137	1.305	1.314	1.349	1.269	1.305	1.303	1.286	1.250	7.14	16.9877
	67	Styrene	0.639	0.674	0.721	0.844	0.895	0.944	0.904	0.955	0.965	0.972	0.851	14.93	17.0577
	68	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	22.4694
	69	Isopropylbenzene	5.162	5.148	5.159	6.129	5.635	5.434	5.360	5.284	5.267	4.963	5.354	6.13	17.7801
	70	Bromoform	0.396	0.389	0.441	0.500	0.450	0.446	0.410	0.418	0.422	0.424	0.430	7.41	17.9633
	71	1,1,2,2-Tetrachloroethane	0.867	0.811	0.869	0.956	0.849	0.862	0.765	0.767	0.779	0.793	0.832	7.23	18.1808
	72	4-Bromofluorobenzene	------	------	------	1.344	1.321	1.471	1.318	1.279	------	------	1.347	5.43	18.4356
	73	1,2,3-Trichloropropane	------	0.103	0.135	0.156	0.136	0.136	0.118	0.121	0.124	0.122	0.128	11.66	18.5542
	74	trans-1,4-Dichloro-2-butene	------	------	0.051	0.080	0.082	0.095	0.089	0.096	0.104	0.111	0.088	20.57	18.6557
	75	n-Propylbenzene	5.578	5.440	5.711	6.984	6.759	6.598	6.747	6.661	6.562	------	6.338	9.27	18.7542
	76	Bromobenzene	1.061	1.033	1.038	1.160	1.060	1.026	0.989	0.975	0.985	------	1.036	5.42	18.9876
	77	1,3,5-Trimethylbenzene	3.411	3.417	3.490	4.316	4.074	4.000	4.007	3.966	4.008	3.845	3.853	8.04	19.1315
	78	2-Chlorotoluene	4.226	4.148	4.067	4.347	3.961	3.788	3.730	3.725	3.688	3.560	3.924	6.72	19.2745
	79	4-Chlorotoluene	3.050	3.024	2.950	3.770	3.482	3.373	3.240	3.259	3.218	3.088	3.245	7.60	19.3713
	80	tert-Butylbenzene	3.159	3.086	3.214	3.788	3.604	3.527	3.536	3.474	3.491	3.348	3.423	6.38	20.0386
	81	1,2,4-Trimethylbenzene	2.872	2.895	3.054	3.692	3.663	3.639	3.667	3.700	3.748	3.602	3.453	10.40	20.1503
	82	sec-Butylbenzene	4.196	4.138	4.448	5.593	5.505	5.593	5.750	5.776	5.885	5.409	5.229	13.13	20.5852
	83	p-Isopropyltoluene	2.425	2.414	2.548	3.321	3.445	3.627	3.889	3.936	4.085	3.905	3.359	19.70	20.9204
	84	1,3-Dichlorobenzene	1.891	1.771	1.810	2.089	1.946	1.938	1.939	1.933	1.948	1.908	1.917	4.48	21.2734
	85	1,4-Dichlorobenzene	1.625	1.600	1.598	1.851	1.767	1.803	1.763	1.768	1.823	1.790	1.739	5.45	21.5400
	86	n-Butylbenzene	1.323	1.505	1.703	2.357	2.646	3.071	3.425	3.661	3.804	3.737	2.723	35.30	21.9958
	87	1,2-Dichlorobenzene	1.493	1.448	1.509	1.679	1.580	1.586	1.551	1.552	1.593	1.547	1.554	4.07	22.5439
	88	1,2-Dibromo-3-chloropropane	------	------	0.048	0.066	0.070	0.077	0.074	0.080	0.084	0.087	0.073	16.98	24.6273
	89	1,2,4-Trichlorobenzene	------	0.310	0.335	0.426	0.445	0.522	0.554	0.608	0.633	0.648	0.498	25.25	27.0431
	90	Hexachlorobutadiene	------	0.289	0.287	0.375	0.395	0.425	0.468	0.470	0.468	0.450	0.403	18.17	27.3939
	91	Naphthalene	------	0.450	0.403	0.447	0.456	0.584	0.630	0.738	0.814	0.877	0.600	29.40	27.7928
	92	1,2,3-Trichlorobenzene	------	0.256	0.278	0.330	0.349	0.411	0.410	0.455	0.476	0.490	0.384	22.18	28.4680

Spike Amount = Nominal Amount * M
Ave_%RSD : 10 Max_%RSD : 35.3

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
5	Vinyl chloride	0.00539	0.18328	0.9767*
18	Iodomethane	-0.00990	0.45813	0.9992
19	Methylene chloride	0.00765	0.35632	0.9994
48	2-Chloroethyl vinyl ether	-0.00286	0.04430	0.9958
53	Ethyl methacrylate	-0.00676	0.21966	0.9981
74	trans-1,4-Dichloro-2-butene	-0.00641	0.10395	0.9972
83	p-Isopropyltoluene	-0.08131	3.94991	0.9993
86	n-Butylbenzene	-0.12951	3.66342	0.9975
88	1,2-Dibromo-3-chloropropane	-0.00440	0.08377	0.9986
89	1,2,4-Trichlorobenzene	-0.02812	0.62072	0.9973
90	Hexachlorobutadiene	-0.01361	0.46223	0.9994
91	Naphthalene	-0.04277	0.78649	0.9903*
92	1,2,3-Trichlorobenzene	-0.01907	0.46711	0.9975

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
5	Vinyl chloride	-0.00289	0.28943	-0.02898	0.9993
91	Naphthalene	-0.00613	0.48479	0.08051	0.9997

2/20/97

PROGRAM: ICALMAX

Input: R:\CAL\8260\2007\V067B08\RBC096.ICL Output: R:\CAL\8260\2007\V067B08\RBC096.MAX

IDX	Parameter	x0	x1	x2	CCF2	MaxMinAmtRatio	MaxMinRespRatio	MaxMinRRF	MaxMinConc
5	Vinyl chloride	-0.00289	0.28943	-0.02898	0.9993	4.99362	0.71976	0.14414	49.9
91	Naphthalene	-0.00613	0.48479	0.08051	0.9997	-3.01074	-0.73592	0.24443	-30.1

2/12/08

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07B08\RBC103.D Vial: 14
Acq On : 8 Feb 2007 9:20 pm Operator: CGM
Sample : IV067B081 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	117	0.00
2	T	Dichlorodifluoromethane	10.000	10.143	-1.4	102	0.00
3	T	Dichlorotetrafluoroethane	10.000	11.241	-12.4	111	0.00
4	P,T	Chloromethane	10.000	10.267	-2.7	104	0.00
5	C,T	Vinyl chloride	10.000	9.412	5.9	103	0.00
6	T	Bromomethane	10.000	9.998	0.0	113	0.00
7	T	Chloroethane	10.000	10.547	-5.5	106	0.00
8	T	Dichlorofluoromethane	10.000	9.621	3.8	113	0.00
9	T	Trichlorofluoromethane	10.000	10.268	-2.7	104	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	33	0.05
11	T	Acrolein	20.000	21.293	-6.5	110	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.249	-2.5	119	0.00
13	T	Acetone	20.000	18.383	8.1	114	0.00
14	C,TM	1,1-Dichloroethene	10.000	11.811	-18.1	132	0.00
	T	tert-Butyl alcohol	50.000	49.790	0.4	108	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	1024	0.00
17	T	Methyl acetate	-1.000	0.000	0.0	105	0.00
18	T	Iodomethane	10.000	10.535	-5.4	127	0.00
19	T	Methylene chloride	10.000	10.761	-7.6	118	0.00
20	T	Acrylonitrile	30.000	32.386	-8.0	111	0.00
21	T	Carbon disulfide	10.000	10.890	-8.9	124	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.914	0.9	107	0.00
23	T	trans-1,2-Dichloroethene	10.000	11.083	-10.8	123	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.892	1.1	110	0.00
25	T	Vinyl acetate	10.000	9.331	6.7	104	0.00
26	P,T	1,1-Dichloroethane	10.000	10.740	-7.4	121	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.611	3.9	105	0.00
28	T	2-Butanone	20.000	18.798	6.0	106	0.00
29	T	2,2-Dichloropropane	10.000	9.740	2.6	109	0.00
30	T	cis-1,2-Dichloroethene	10.000	10.765	-7.7	128	0.00
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	123	0.00
32	C,T	Chloroform	10.000	10.232	-2.3	114	0.00
33	T	Bromochloromethane	10.000	10.435	-4.4	116	0.00
34	T	1,1,1-Trichloroethane	10.000	10.233	-2.3	114	0.00
35	T	Cyclohexane	-1.000	0.000	0.0	86	-0.02
36	T	1,1-Dichloropropene	10.000	10.366	-3.7	115	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	10.066	-0.7	110	0.00
38	S	1,2-Dichloroethane-d4	10.000	9.132	8.7	90	0.00
	I	CHLOROBENZENE-D5	10.000	10.000	0.0	115	0.00
	T	Carbon tetrachloride	10.000	10.671	-6.7	118	0.00

(#) = Out of Range

ar 2/20/07

2017

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07B08\RBC103.D Vial: 14
Acq On : 8 Feb 2007 9:20 pm Operator: CGM
Sample : IV067B081 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	10.430	-4.3	112	0.00
42	M,T	Benzene	10.000	11.168	-11.7	126	0.00
43	M,T	Trichloroethene	10.000	10.683	-6.8	118	0.00
44	T	Methylcyclohexane	-1.000	0.000	0.0	118	0.13
45	C,T	1,2-Dichloropropane	10.000	10.284	-2.8	113	0.00
46	T	Bromodichloromethane	10.000	10.411	-4.1	113	0.00
47	T	Dibromomethane	10.000	10.316	-3.2	110	0.00
48	T	2-Chloroethyl vinyl ether	10.000	8.403	16.0	98	0.00
49	T	4-Methyl-2-pentanone	20.000	20.190	-1.0	109	0.00
50	T	cis-1,3-Dichloropropene	10.000	11.302	-13.0	120	0.00
51	S	Toluene-d8	10.000	9.958	0.4	102	0.00
52	C,TM	Toluene	10.000	10.444	-4.4	117	0.00
53	T	Ethyl methacrylate	10.000	9.715	2.9	112	0.00
54	T	trans-1,3-Dichloropropene	10.000	11.324	-13.2	117	0.00
[illegible]	T	2-Hexanone	20.000	19.380	3.1	109	0.00
[illegible]	T	1,1,2-Trichloroethane	10.000	10.081	-0.8	109	0.00
57	T	1,3-Dichloropropane	10.000	10.295	-2.9	111	-0.02
58	T	Tetrachloroethene	10.000	10.657	-6.6	118	0.00
59	T	Dibromochloromethane	10.000	10.298	-3.0	108	0.00
60	T	1,2-Dibromoethane	10.000	10.553	-5.5	113	0.00
61	T	1-Chlorohexane	10.000	10.439	-4.4	111	0.00
62	P,M	Chlorobenzene	10.000	10.363	-3.6	115	0.00
63	T	1,1,1,2-Tetrachloroethane	10.000	10.443	-4.4	112	0.00
64	C,T	Ethylbenzene	10.000	10.510	-5.1	114	0.00
65	T	m-Xylene & p-Xylene	20.000	20.249	-1.2	113	0.00
66	T	o-Xylene	10.000	10.123	-1.2	108	0.00
67	T	Styrene	10.000	10.871	-8.7	112	0.00
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	112	0.00
69	T	Isopropylbenzene	10.000	9.953	0.5	110	-0.02
70	P,T	Bromoform	10.000	10.142	-1.4	109	0.00
71	P,T	1,1,2,2-Tetrachloroethane	10.000	9.805	2.0	106	-0.02
72	S	4-Bromofluorobenzene	10.000	9.795	2.1	100	-0.02
73	T	1,2,3-Trichloropropane	10.000	10.113	-1.1	107	-0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	9.731	2.7	111	-0.02
75	T	n-Propylbenzene	10.000	10.118	-1.2	109	0.00
76	T	Bromobenzene	10.000	9.829	1.7	111	-0.02
77	T	1,3,5-Trimethylbenzene	10.000	10.447	-4.5	113	0.00
78	T	2-Chlorotoluene	10.000	9.625	3.8	112	0.00
79	T	4-Chlorotoluene	10.000	10.070	-0.7	108	0.00
[illegible]	T	tert-Butylbenzene	10.000	10.210	-2.1	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07B08\RBC103.D Vial: 14
Acq On : 8 Feb 2007 9:20 pm Operator: CGM
Sample : IVO67B081 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	10.535	-5.4	112	0.00
82	T	sec-Butylbenzene	10.000	10.662	-6.6	112	0.00
83	T	p-Isopropyltoluene	10.000	9.486	5.1	113	0.00
84	T	1,3-Dichlorobenzene	10.000	9.947	0.5	110	0.00
85	T	1,4-Dichlorobenzene	10.000	10.181	-1.8	110	0.00
86	T	n-Butylbenzene	10.000	8.527	14.7	109	-0.02
87	T	1,2-Dichlorobenzene	10.000	9.953	0.5	109	0.00
88	T	1,2-Dibromo-3-chloropropane	10.000	9.263	7.4	106	0.00
89	T	1,2,4-Trichlorobenzene	10.000	8.389	16.1	106	0.00
90	T	Hexachlorobutadiene	10.000	9.052	9.5	107	0.00
91	T	Naphthalene	10.000	9.784	2.2	105	0.00
92	T	1,2,3-Trichlorobenzene	10.000	8.489	15.1	103	0.00

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

2/25/07
2019

DAILY CALIBRATION

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

.ab Name: EMAX Inc
.ab Code: EMXT Case No.:
.ab File ID: RFC001
:ns ent ID: T-067
;C mn:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07E353
BFB Injection Date : 06/01/07
BFB Injection Time : 15:33
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.14
75	30.0 - 60.0% of mass 95	38.67
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.82
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	75.91
175	5.0 - 9.0% of mass 174	5.82(7.7)1
176	95.0 - 101.0% of mass 174	73.88(97.3)1
177	5.0 - 9.0% of mass 176	4.79(6.5)2

1-Value is % mass 174 2-Value is % mass 176

'HIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV067B0864	RFC003	06/01/07	16:46
2	MBLK1W	V067F01Q	RFC007	06/01/07	19:13
3	LCS1W	V067F01L	RFC004	06/01/07	17:22
4	LCD1W	V067F01C	RFC005	06/01/07	17:59
5	133-4-2-INF(05/24/07)	E353-01	RFC016	06/02/07	00:49

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBC096
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: ALAMEDA POINT, CTO 133
SDG No.: 07E353
Date Analyzed: 02/08/07
Time Analyzed: 17:00
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2895527	10.15	2436195	15.69	753049	22.46
	UPPER LIMIT	5791054	10.65	4872390	16.19	1506098	22.96
	LOWER LIMIT	1447764	9.65	1218098	15.19	376525	21.96
	SAMPLE ID						
1	VSTD010	3027441	10.17	2541913	15.72	827766	22.51
2	MBLK1W	3232593	10.17	2670202	15.74	721795	22.51
3	LCS1W	3119185	10.17	2703412	15.74	866784	22.51
4	LCD1W	3113909	10.17	2623565	15.72	866709	22.51
5	133-4-2-INF(05/24/07)	3252077	10.16	2650403	15.72	720753	22.50

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D Vial: 3
Acq On : 1 Jun 2007 4:46 pm Operator: CGM
Sample : CVO67B0864 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	105	0.03
2	T	Dichlorodifluoromethane	10.000	11.119	-11.2	99	0.01
3	T	Dichlorotetrafluoroethane	10.000	0.000	100.0#	0	-3.73#
4	P,T	Chloromethane	10.000	11.747	-17.5	106	0.01
5	C,T	Vinyl chloride	10.000	9.299	7.0	91	0.01
6	T	Bromomethane	10.000	9.375	6.3	94	0.03
7	T	Chloroethane	10.000	12.043	-20.4#	108	0.03
8	T	Dichlorofluoromethane	10.000	10.258	-2.6	107	0.03
9	T	Trichlorofluoromethane	10.000	9.479	5.2	85	0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	88	-0.02
11	T	Acrolein	20.000	19.219	3.9	88	0.03
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.378	-3.8	107	0.03
13	T	Acetone	20.000	17.567	12.2	97	0.01
14	C,TM	1,1-Dichloroethene	10.000	9.390	6.1	93	0.01
	T	tert-Butyl alcohol	50.000	50.658	-1.3	98	0.01
16	T	Acetonitrile	-1.000	0.000	0.0	94	0.03
17	T	Methyl acetate	-1.000	0.000	0.0	406	0.01
18	T	Iodomethane	10.000	9.750	2.5	105	0.03
19	T	Methylene chloride	10.000	9.528	4.7	94	0.01
20	T	Acrylonitrile	30.000	31.370	-4.6	96	0.01
21	T	Carbon disulfide	10.000	10.025	-0.3	102	0.03
22	T	tert-Butyl methyl ether (MT	10.000	10.416	-4.2	100	0.03
23	T	trans-1,2-Dichloroethene	10.000	9.759	2.4	97	0.03
24	T	Isopropyl ether (DIPE)	10.000	9.926	0.7	98	0.03
25	T	Vinyl acetate	10.000	10.047	-0.5	99	0.01
26	P,T	1,1-Dichloroethane	10.000	9.682	3.2	97	0.03
27	T	tert-Butyl ethyl ether (ETB	10.000	9.980	0.2	97	0.03
28	T	2-Butanone	20.000	18.118	9.4	91	0.03
29	T	2,2-Dichloropropane	10.000	10.228	-2.3	102	0.03
30	T	cis-1,2-Dichloroethene	10.000	10.133	-1.3	107	0.03
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	107	0.03
32	C,T	Chloroform	10.000	9.310	6.9	93	0.03
33	T	Bromochloromethane	10.000	9.713	2.9	97	0.03
34	T	1,1,1-Trichloroethane	10.000	9.103	9.0	90	0.03
35	T	Cyclohexane	-1.000	0.000	0.0	870	0.03
36	T	1,1-Dichloropropene	10.000	10.165	-1.6	100	0.03
37	T	tert-Amyl methyl ether (TAM	10.000	10.579	-5.8	103	0.03
38	S	1,2-Dichloroethane-d4	10.000	7.903	21.0#	69	0.03
	I	CHLOROBENZENE-D5	10.000	10.000	0.0	104	0.04
	T	Carbon tetrachloride	10.000	8.972	10.3	90	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D Vial: 3
Acq On : 1 Jun 2007 4:46 pm Operator: CGM
Sample : CVO67B0864 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	8.520	14.8	83	0.03
42	M,T	Benzene	10.000	10.362	-3.6	106	0.03
43	M,T	Trichloroethene	10.000	10.781	-7.8	108	0.03
44	T	Methylcyclohexane	-1.000	0.000	0.0	160	0.03
45	C,T	1,2-Dichloropropane	10.000	9.770	2.3	98	0.03
46	T	Bromodichloromethane	10.000	9.274	7.3	91	0.04
47	T	Dibromomethane	10.000	9.043	9.6	88	0.03
48	T	2-Chloroethyl vinyl ether	10.000	9.049	9.5	97	0.04
49	T	4-Methyl-2-pentanone	20.000	18.946	5.3	93	0.03
50	T	cis-1,3-Dichloropropene	10.000	10.981	-9.8	106	0.02
51	S	Toluene-d8	10.000	9.215	7.9	86	0.04
52	C,TM	Toluene	10.000	10.391	-3.9	106	0.04
53	T	Ethyl methacrylate	10.000	10.182	-1.8	107	0.04
54	T	trans-1,3-Dichloropropene	10.000	10.915	-9.1	103	0.04
[illegible]	T	2-Hexanone	20.000	18.509	7.5	95	0.04
56	T	1,1,2-Trichloroethane	10.000	9.956	0.4	97	0.04
57	T	1,3-Dichloropropane	10.000	10.089	-0.9	99	0.02
58	T	Tetrachloroethene	10.000	10.626	-6.3	107	0.04
59	T	Dibromochloromethane	10.000	9.895	1.1	95	0.04
60	T	1,2-Dibromoethane	10.000	9.855	1.4	96	0.04
61	T	1-Chlorohexane	10.000	10.891	-8.9	105	0.04
62	P,M	Chlorobenzene	10.000	10.297	-3.0	104	0.04
63	T	1,1,1,2-Tetrachloroethane	10.000	10.758	-7.6	105	0.04
64	C,T	Ethylbenzene	10.000	10.711	-7.1	105	0.04
65	T	m-Xylene & p-Xylene	20.000	20.550	-2.8	105	0.04
66	T	o-Xylene	10.000	10.461	-4.6	101	0.05
67	T	Styrene	10.000	11.311	-13.1	106	0.04
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	110	0.05
69	T	Isopropylbenzene	10.000	9.668	3.3	105	0.04
70	P,T	Bromoform	10.000	8.897	11.0	94	0.04
71	P,T	1,1,2,2-Tetrachloroethane	10.000	8.656	13.4	92	0.04
72	S	4-Bromofluorobenzene	10.000	9.121	8.8	92	0.04
73	T	1,2,3-Trichloropropane	10.000	8.656	13.4	90	0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	8.429	15.7	94	0.04
75	T	n-Propylbenzene	10.000	9.931	0.7	105	0.04
76	T	Bromobenzene	10.000	9.739	2.6	108	0.04
77	T	1,3,5-Trimethylbenzene	10.000	9.712	2.9	103	0.05
78	T	2-Chlorotoluene	10.000	8.751	12.5	100	0.04
[illegible]	T	4-Chlorotoluene	10.000	9.699	3.0	103	0.05
[illegible]	T	tert-Butylbenzene	10.000	10.348	-3.5	110	0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D Vial: 3
Acq On : 1 Jun 2007 4:46 pm Operator: CGM
Sample : CVO67B0864 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	9.648	3.5	101	0.04
82	T	sec-Butylbenzene	10.000	10.236	-2.4	105	0.04
83	T	p-Isopropyltoluene	10.000	9.758	2.4	114	0.05
84	T	1,3-Dichlorobenzene	10.000	9.779	2.2	106	0.05
85	T	1,4-Dichlorobenzene	10.000	9.834	1.7	104	0.04
86	T	n-Butylbenzene	10.000	8.436	15.6	106	0.04
87	T	1,2-Dichlorobenzene	10.000	9.702	3.0	104	0.05
88	T	1,2-Dibromo-3-chloropropane	10.000	9.294	7.1	105	0.05
89	T	1,2,4-Trichlorobenzene	10.000	8.468	15.3	105	0.05
90	T	Hexachlorobutadiene	10.000	10.233	-2.3	119	0.03
91	T	Naphthalene	10.000	10.954	-9.5	117	0.05
92	T	1,2,3-Trichlorobenzene	10.000	8.377	16.2	100	0.05

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D Vial: 3
Acq On : 1 Jun 2007 4:46 pm Operator: CGM
Sample : CVO67B0864 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	0.03
2	T	Dichlorodifluoromethane	0.223	0.248	-11.2	99	0.01
3	T	Dichlorotetrafluoroethane	0.321	0.000	100.0#	0#	-3.73#
4	P,T	Chloromethane	0.258	0.303	-17.4	106	0.01
5	C,T	Vinyl chloride	0.222	0.241	-8.6	91	0.01
6	T	Bromomethane	0.222	0.208	6.3	94	0.03
7	T	Chloroethane	0.129	0.156	-20.9#	108	0.03
8	T	Dichlorofluoromethane	0.478	0.491	-2.7	107	0.03
9	T	Trichlorofluoromethane	0.314	0.298	5.1	85	0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	88	-0.02
11	T	Acrolein	0.015	0.015	0.0	88	0.03
12	T	1,1,2-Trichloro-1,2,2-trifl	0.208	0.215	-3.4	107	0.03
13	T	Acetone	0.030	0.027	10.0	97	0.01
14	C,TM	1,1-Dichloroethene	0.390	0.366	6.2	93	0.01
	T	tert-Butyl alcohol	0.010	0.010	0.0	98	0.01
16	T	Acetonitrile	0.000	0.000	0.0	94	0.03
17	T	Methyl acetate	0.000	0.000	0.0	406#	0.01
18	T	Iodomethane	0.386	0.437	-13.2	105	0.03
19	T	Methylene chloride	0.412	0.347	15.8	94	0.01
20	T	Acrylonitrile	0.035	0.037	-5.7	96	0.01
21	T	Carbon disulfide	1.147	1.150	-0.3	102	0.03
22	T	tert-Butyl methyl ether (MT	0.372	0.387	-4.0	100	0.03
23	T	trans-1,2-Dichloroethene	0.424	0.414	2.4	97	0.03
24	T	Isopropyl ether (DIPE)	0.888	0.882	0.7	98	0.03
25	T	Vinyl acetate	0.296	0.298	-0.7	99	0.01
26	P,T	1,1-Dichloroethane	0.547	0.530	3.1	97	0.03
27	T	tert-Butyl ethyl ether (ETB	0.604	0.602	0.3	97	0.03
28	T	2-Butanone	0.049	0.045	8.2	91	0.03
29	T	2,2-Dichloropropane	0.386	0.395	-2.3	102	0.03
30	T	cis-1,2-Dichloroethene	0.463	0.470	-1.5	107	0.03
31	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	107	0.03
32	C,T	Chloroform	0.520	0.484	6.9	93	0.03
33	T	Bromochloromethane	0.228	0.221	3.1	97	0.03
34	T	1,1,1-Trichloroethane	0.418	0.380	9.1	90	0.03
35	T	Cyclohexane	0.000	0.000	0.0	870#	0.03
36	T	1,1-Dichloropropene	0.142	0.144	-1.4	100	0.03
37	T	tert-Amyl methyl ether (TAM	0.535	0.566	-5.8	103	0.03
38	S	1,2-Dichloroethane-d4	0.206	0.163	20.9#	69	0.03
	I	CHLOROBENZENE-D5	1.000	1.000	0.0	104	0.04
	T	Carbon tetrachloride	0.436	0.391	10.3	90	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D
Acq On : 1 Jun 2007 4:46 pm
Sample : CV067B0864
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA
MS Integration Params: LSCINT.P

Vial: 3
Operator: CGM
Inst : TO67
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	0.283	0.241	14.8	83	0.03
42	M,T	Benzene	1.424	1.476	-3.7	106	0.03
43	M,T	Trichloroethene	0.399	0.430	-7.8	108	0.03
44	T	Methylcyclohexane	0.000	0.000	0.0	160#	0.03
45	C,T	1,2-Dichloropropane	0.392	0.383	2.3	98	0.03
46	T	Bromodichloromethane	0.416	0.385	7.5	91	0.04
47	T	Dibromomethane	0.174	0.157	9.8	88	0.03
48	T	2-Chloroethyl vinyl ether	0.037	0.037	0.0	97	0.04
49	T	4-Methyl-2-pentanone	0.157	0.148	5.7	93	0.03
50	T	cis-1,3-Dichloropropene	0.418	0.459	-9.8	106	0.02
51	S	Toluene-d8	1.328	1.224	7.8	86	0.04
52	C,TM	Toluene	1.509	1.568	-3.9	106	0.04
53	T	Ethyl methacrylate	0.190	0.217	-14.2	107	0.04
54	T	trans-1,3-Dichloropropene	0.278	0.304	-9.4	103	0.04
	T	2-Hexanone	0.087	0.081	6.9	95	0.04
56	T	1,1,2-Trichloroethane	0.211	0.210	0.5	97	0.04
57	T	1,3-Dichloropropane	0.348	0.351	-0.9	99	0.02
58	T	Tetrachloroethene	0.296	0.315	-6.4	107	0.04
59	T	Dibromochloromethane	0.267	0.264	1.1	95	0.04
60	T	1,2-Dibromoethane	0.211	0.208	1.4	96	0.04
61	T	1-Chlorohexane	0.565	0.615	-8.8	105	0.04
62	P,M	Chlorobenzene	0.937	0.965	-3.0	104	0.04
63	T	1,1,1,2-Tetrachloroethane	0.286	0.308	-7.7	105	0.04
64	C,T	Ethylbenzene	1.635	1.752	-7.2	105	0.04
65	T	m-Xylene & p-Xylene	1.269	1.304	-2.8	105	0.04
66	T	o-Xylene	1.250	1.308	-4.6	101	0.05
67	T	Styrene	0.851	0.963	-13.2	106	0.04
68	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	110	0.05
69	T	Isopropylbenzene	5.354	5.177	3.3	105	0.04
70	P,T	Bromoform	0.430	0.382	11.2	94	0.04
71	P,T	1,1,2,2-Tetrachloroethane	0.832	0.720	13.5	92	0.04
72	S	4-Bromofluorobenzene	1.347	1.228	8.8	92	0.04
73	T	1,2,3-Trichloropropane	0.128	0.111	13.3	90	0.02
74	T	trans-1,4-Dichloro-2-butene	0.088	0.081	8.0	94	0.04
75	T	n-Propylbenzene	6.338	6.294	0.7	105	0.04
76	T	Bromobenzene	1.036	1.009	2.6	108	0.04
77	T	1,3,5-Trimethylbenzene	3.853	3.742	2.9	103	0.05
78	T	2-Chlorotoluene	3.924	3.434	12.5	100	0.04
	T	4-Chlorotoluene	3.245	3.148	3.0	103	0.05
	T	tert-Butylbenzene	3.423	3.542	-3.5	110	0.04

(#) = Out of Range

2027

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F01\RFC003.D Vial: 3
Acq On : 1 Jun 2007 4:46 pm Operator: CGM
Sample : CVO67B0864 Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Wed Feb 14 19:15:15 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	3.453	3.332	3.5	101	0.04
82	T	sec-Butylbenzene	5.229	5.353	-2.4	105	0.04
83	T	p-Isopropyltoluene	3.359	3.773	-12.3	114	0.05
84	T	1,3-Dichlorobenzene	1.917	1.875	2.2	106	0.05
85	T	1,4-Dichlorobenzene	1.739	1.710	1.7	104	0.04
86	T	n-Butylbenzene	2.723	2.961	-8.7	106	0.04
87	T	1,2-Dichlorobenzene	1.554	1.508	3.0	104	0.05
88	T	1,2-Dibromo-3-chloropropane	0.073	0.073	0.0	105	0.05
89	T	1,2,4-Trichlorobenzene	0.498	0.497	0.2	105	0.05
90	T	Hexachlorobutadiene	0.403	0.459	-13.9	119	0.03
91	T	Naphthalene	0.600	0.621	-3.5	117	0.05
92	T	1,2,3-Trichlorobenzene	0.384	0.372	3.1	100	0.05

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

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

.ab Name: EMAX Inc
.ab Code: EMXT Case No.:
.ab File ID: RFC148
:ns' ment ID: T-067
;C mn:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07E353
BFB Injection Date : 06/06/07
BFB Injection Time : 05:26
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.04
75	30.0 - 60.0% of mass 95	38.96
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.85
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.52
175	5.0 - 9.0% of mass 174	5.71(7.7)1
176	95.0 - 101.0% of mass 174	72.33(97.1)1
177	5.0 - 9.0% of mass 176	4.65(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV067B0877	RFC149	06/06/07	06:03
2	MBLK2W	V067F14Q	RFC154	06/06/07	09:09
3	LCS2W	V067F14L	RFC151	06/06/07	07:17
4	LCD2W	V067F14C	RFC152	06/06/07	07:55
5	133-4-2-INF(05/24/07)DL	E353-01T	RFC162	06/06/07	14:01

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

.ab Name: EMAX Inc
.ab Code: EMXT
.ab File ID: RBC096
Instrument ID: T-067
iC / mn: RTX502.2 ID: 0.32mm (mm)

Project: ALAMEDA POINT, CTO 133
SDG No.: 07E353
Date Analyzed: 02/08/07
Time Analyzed: 17:00
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2895527	10.15	2436195	15.69	753049	22.46
	UPPER LIMIT	5791054	10.65	4872390	16.19	1506098	22.96
	LOWER LIMIT	1447764	9.65	1218098	15.19	376525	21.96
	SAMPLE ID						
1	VSTD010	2764680	10.17	2389145	15.72	727104	22.49
2	MBLK2W	3542492	10.17	2922742	15.72	720032	22.49
3	LCS2W	3405431	10.15	2963594	15.72	920359	22.50
4	LCD2W	3414914	10.17	2882321	15.72	870145	22.49
5	133-4-2-INF(05/24/07)DL	3505116	10.17	2801755	15.72	667692	22.51

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CVO67B0877 10ppb Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	95	0.02
2	T	Dichlorodifluoromethane	10.000	9.354	6.5	76	0.00
3	T	Dichlorotetrafluoroethane	10.000	2.819	NT 71.8#	23	-0.10
4	P,T	Chloromethane	10.000	9.972	0.3	82	0.02
5	C,T	Vinyl chloride	10.000	8.188	18.1	74	0.00
6	T	Bromomethane	10.000	7.125	28.7#	66	0.00
7	T	Chloroethane	10.000	9.845	1.5	81	0.00
8	T	Dichlorofluoromethane	10.000	9.198	8.0	88	0.00
9	T	Trichlorofluoromethane	10.000	8.243	17.6	68	0.02
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	35	0.05
11	T	Acrolein	20.000	15.410	NT 22.9#	65	0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.508	4.9	90	0.02
13	T	Acetone	20.000	16.671	16.6	84	0.00
14	C,TM	1,1-Dichloroethene	10.000	9.338	6.6	85	0.00
[illegible]	T	tert-Butyl alcohol	50.000	48.905	2.2	87	0.02
[illegible]	T	Acetonitrile	-1.000	0.000	0.0	101	0.02
17	T	Methyl acetate	-1.000	0.000	0.0	123	0.00
18	T	Iodomethane	10.000	6.673	NT 33.3#	65	0.00
19	T	Methylene chloride	10.000	9.523	4.8	86	0.00
20	T	Acrylonitrile	30.000	33.102	-10.3	92	0.00
21	T	Carbon disulfide	10.000	8.865	11.3	82	0.02
22	T	tert-Butyl methyl ether (MT	10.000	10.151	-1.5	89	0.02
23	T	trans-1,2-Dichloroethene	10.000	9.545	4.6	86	0.02
24	T	Isopropyl ether (DIPE)	10.000	10.025	-0.3	91	0.02
25	T	Vinyl acetate	10.000	8.278	17.2	75	0.00
26	P,T	1,1-Dichloroethane	10.000	9.608	3.9	88	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	10.069	-0.7	89	0.02
28	T	2-Butanone	20.000	19.476	2.6	89	0.02
29	T	2,2-Dichloropropane	10.000	7.537	NT 24.6#	69	0.02
30	T	cis-1,2-Dichloroethene	10.000	10.007	-0.1	97	0.02
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	92	0.02
32	C,T	Chloroform	10.000	9.404	6.0	86	0.02
33	T	Bromochloromethane	10.000	9.553	4.5	87	0.02
34	T	1,1,1-Trichloroethane	10.000	8.497	15.0	77	0.00
35	T	Cyclohexane	-1.000	0.000	0.0	18	0.00
36	T	1,1-Dichloropropene	10.000	9.780	2.2	88	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	10.426	-4.3	93	0.02
38	S	1,2-Dichloroethane-d4	10.000	8.379	16.2	67	0.00
[illegible]	I	CHLOROBENZENE-D5	10.000	10.000	0.0	98	0.03
[illegible]	T	Carbon tetrachloride	10.000	8.101	19.0	77	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CVO67B0877 10ppb Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	8.831		11.7	81	0.02
42	M,T	Benzene	10.000	10.044		-0.4	96	0.02
43	M,T	Trichloroethene	10.000	10.194		-1.9	96	0.02
44	T	Methylcyclohexane	-1.000	0.000		0.0	72	0.02
45	C,T	1,2-Dichloropropane	10.000	10.057		-0.6	95	0.02
46	T	Bromodichloromethane	10.000	9.097		9.0	84	0.02
47	T	Dibromomethane	10.000	9.265		7.3	85	0.02
48	T	2-Chloroethyl vinyl ether	10.000	6.452	WT	35.5#	63	0.02
49	T	4-Methyl-2-pentanone	20.000	18.107		9.5	84	0.02
50	T	cis-1,3-Dichloropropene	10.000	10.090		-0.9	91	0.02
51	S	Toluene-d8	10.000	9.100		9.0	80	0.04
52	C,TM	Toluene	10.000	9.971		0.3	95	0.02
53	T	Ethyl methacrylate	10.000	9.390		6.1	93	0.02
54	T	trans-1,3-Dichloropropene	10.000	9.760		2.4	86	0.02
[illegible]	T	2-Hexanone	20.000	16.334		18.3	79	0.04
[illegible]	T	1,1,2-Trichloroethane	10.000	10.157		-1.6	93	0.02
57	T	1,3-Dichloropropane	10.000	10.431		-4.3	96	0.02
58	T	Tetrachloroethene	10.000	9.749		2.5	92	0.03
59	T	Dibromochloromethane	10.000	9.339		6.6	84	0.03
60	T	1,2-Dibromoethane	10.000	10.055		-0.5	92	0.02
61	T	1-Chlorohexane	10.000	9.797		2.0	89	0.03
62	P,M	Chlorobenzene	10.000	10.079		-0.8	95	0.03
63	T	1,1,1,2-Tetrachloroethane	10.000	10.099		-1.0	92	0.03
64	C,T	Ethylbenzene	10.000	10.160		-1.6	94	0.02
65	T	m-Xylene & p-Xylene	20.000	19.247		3.8	92	0.03
66	T	o-Xylene	10.000	10.106		-1.1	92	0.03
67	T	Styrene	10.000	10.890		-8.9	96	0.03
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000		0.0	97	0.03
69	T	Isopropylbenzene	10.000	9.841		1.6	94	0.02
70	P,T	Bromoform	10.000	8.907		10.9	83	0.03
71	P,T	1,1,2,2-Tetrachloroethane	10.000	9.397		6.0	88	0.02
72	S	4-Bromofluorobenzene	10.000	9.539		4.6	84	0.02
73	T	1,2,3-Trichloropropane	10.000	10.293		-2.9	94	0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	7.230	WT	27.7#	70	0.02
75	T	n-Propylbenzene	10.000	9.729		2.7	90	0.03
76	T	Bromobenzene	10.000	9.645		3.6	94	0.03
77	T	1,3,5-Trimethylbenzene	10.000	9.778		2.2	91	0.03
78	T	2-Chlorotoluene	10.000	9.141		8.6	91	0.03
79	T	4-Chlorotoluene	10.000	9.381		6.2	87	0.03
[illegible]	T	tert-Butylbenzene	10.000	10.318		-3.2	97	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CV067B0877 10ppb Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	9.763		2.4	89	0.03
82	T	sec-Butylbenzene	10.000	10.162		-1.6	92	0.03
83	T	p-Isopropyltoluene	10.000	9.055		9.5	93	0.03
84	T	1,3-Dichlorobenzene	10.000	9.322		6.8	89	0.03
85	T	1,4-Dichlorobenzene	10.000	9.292		7.1	87	0.03
86	T	n-Butylbenzene	10.000	7.109	NT	28.9#	78	0.02
87	T	1,2-Dichlorobenzene	10.000	9.573		4.3	91	0.03
88	T	1,2-Dibromo-3-chloropropane	10.000	8.684		13.2	86	0.03
89	T	1,2,4-Trichlorobenzene	10.000	7.394	NT	26.1#	80	0.04
90	T	Hexachlorobutadiene	10.000	9.405		6.0	96	0.03
91	T	Naphthalene	10.000	9.589		4.1	88	0.03
92	T	1,2,3-Trichlorobenzene	10.000	7.824	NT	21.8#	81	0.04

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CV067B0877 10ppb Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	95	0.02
2	T	Dichlorodifluoromethane	0.223	0.209	6.3	76	0.00
3	T	Dichlorotetrafluoroethane	0.321	0.090	72.0#	23#	-0.10
4	P,T	Chloromethane	0.258	0.257	0.4	82	0.02
5	C,T	Vinyl chloride	0.222	0.215	3.2	74	0.00
6	T	Bromomethane	0.222	0.158	28.8#	66	0.00
7	T	Chloroethane	0.129	0.127	1.6	81	0.00
8	T	Dichlorofluoromethane	0.478	0.440	7.9	88	0.00
9	T	Trichlorofluoromethane	0.314	0.259	17.5	68	0.02
10	T	sec-Propyl alcohol	0.000	0.000	0.0	35#	0.05
11	T	Acrolein	0.015	0.012	20.0	65	0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	0.208	0.197	5.3	90	0.02
13	T	Acetone	0.030	0.025	16.7	84	0.00
14	C,TM	1,1-Dichloroethene	0.390	0.364	6.7	85	0.00
[illegible]	T	tert-Butyl alcohol	0.010	0.010	0.0	87	0.02
[illegible]	T	Acetonitrile	0.000	0.000	0.0	101	0.02
17	T	Methyl acetate	0.000	0.000	0.0	123	0.00
18	T	Iodomethane	0.386	0.296	23.3#	65	0.00
19	T	Methylene chloride	0.412	0.347	15.8	86	0.00
20	T	Acrylonitrile	0.035	0.039	-11.4	92	0.00
21	T	Carbon disulfide	1.147	1.017	11.3	82	0.02
22	T	tert-Butyl methyl ether (MT	0.372	0.378	-1.6	89	0.02
23	T	trans-1,2-Dichloroethene	0.424	0.405	4.5	86	0.02
24	T	Isopropyl ether (DIPE)	0.888	0.891	-0.3	91	0.02
25	T	Vinyl acetate	0.296	0.245	17.2	75	0.00
26	P,T	1,1-Dichloroethane	0.547	0.526	3.8	88	0.00
27	T	tert-Butyl ethyl ether (ETB	0.604	0.608	-0.7	89	0.02
28	T	2-Butanone	0.049	0.048	2.0	89	0.02
29	T	2,2-Dichloropropane	0.386	0.291	24.6#	69	0.02
30	T	cis-1,2-Dichloroethene	0.463	0.464	-0.2	97	0.02
31	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	92	0.02
32	C,T	Chloroform	0.520	0.489	6.0	86	0.02
33	T	Bromochloromethane	0.228	0.217	4.8	87	0.02
34	T	1,1,1-Trichloroethane	0.418	0.355	15.1	77	0.00
35	T	Cyclohexane	0.000	0.000	0.0	18#	0.00
36	T	1,1-Dichloropropene	0.142	0.138	2.8	88	0.00
37	T	tert-Amyl methyl ether (TAM	0.535	0.558	-4.3	93	0.02
38	S	1,2-Dichloroethane-d4	0.206	0.173	16.0	67	0.00
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.03
[illegible]	T	Carbon tetrachloride	0.436	0.353	19.0	77	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CV067B0877 10ppb Inst : T067
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\V067B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	0.283	0.250	11.7	81	0.02
42	M,T	Benzene	1.424	1.431	-0.5	96	0.02
43	M,T	Trichloroethene	0.399	0.407	-2.0	96	0.02
44	T	Methylcyclohexane	0.000	0.000	0.0	72	0.02
45	C,T	1,2-Dichloropropane	0.392	0.394	-0.5	95	0.02
46	T	Bromodichloromethane	0.416	0.378	9.1	84	0.02
47	T	Dibromomethane	0.174	0.161	7.5	85	0.02
48	T	2-Chloroethyl vinyl ether	0.037	0.026	29.7#	63	0.02
49	T	4-Methyl-2-pentanone	0.157	0.142	9.6	84	0.02
50	T	cis-1,3-Dichloropropene	0.418	0.422	-1.0	91	0.02
51	S	Toluene-d8	1.328	1.209	9.0	80	0.04
52	C,TM	Toluene	1.509	1.505	0.3	95	0.02
53	T	Ethyl methacrylate	0.190	0.199	-4.7	93	0.02
54	T	trans-1,3-Dichloropropene	0.278	0.272	2.2	86	0.02
[illegible]	T	2-Hexanone	0.087	0.071	18.4	79	0.04
[illegible]	T	1,1,2-Trichloroethane	0.211	0.214	-1.4	93	0.02
57	T	1,3-Dichloropropane	0.348	0.363	-4.3	96	0.02
58	T	Tetrachloroethene	0.296	0.289	2.4	92	0.03
59	T	Dibromochloromethane	0.267	0.249	6.7	84	0.03
60	T	1,2-Dibromoethane	0.211	0.213	-0.9	92	0.02
61	T	1-Chlorohexane	0.565	0.554	1.9	89	0.03
62	P,M	Chlorobenzene	0.937	0.944	-0.7	95	0.03
63	T	1,1,1,2-Tetrachloroethane	0.286	0.289	-1.0	92	0.03
64	C,T	Ethylbenzene	1.635	1.662	-1.7	94	0.02
65	T	m-Xylene & p-Xylene	1.269	1.221	3.8	92	0.03
66	T	o-Xylene	1.250	1.264	-1.1	92	0.03
67	T	Styrene	0.851	0.927	-8.9	96	0.03
68	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	97	0.03
69	T	Isopropylbenzene	5.354	5.269	1.6	94	0.02
70	P,T	Bromoform	0.430	0.383	10.9	83	0.03
71	P,T	1,1,2,2-Tetrachloroethane	0.832	0.781	6.1	88	0.02
72	S	4-Bromofluorobenzene	1.347	1.285	4.6	84	0.02
73	T	1,2,3-Trichloropropane	0.128	0.132	-3.1	94	0.02
74	T	trans-1,4-Dichloro-2-butene	0.088	0.069	21.6#	70	0.02
75	T	n-Propylbenzene	6.338	6.166	2.7	90	0.03
76	T	Bromobenzene	1.036	1.000	3.5	94	0.03
77	T	1,3,5-Trimethylbenzene	3.853	3.768	2.2	91	0.03
78	T	2-Chlorotoluene	3.924	3.587	8.6	91	0.03
79	T	4-Chlorotoluene	3.245	3.044	6.2	87	0.03
[illegible]	T	tert-Butylbenzene	3.423	3.532	-3.2	97	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F05\RFC149.D Vial: 3
Acq On : 6 Jun 2007 6:03 am Operator: CGM
Sample : CV067B0877 10ppb Inst : TO67
Misc : 20ppb Ket-AA/10ppb 8260/50ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67B08.M (RTE Integrator)
Title : METHOD 8260 25ml
Last Update : Mon Feb 19 12:02:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	3.453	3.371	2.4	89	0.03
82	T	sec-Butylbenzene	5.229	5.314	-1.6	92	0.03
83	T	p-Isopropyltoluene	3.359	3.495	-4.0	93	0.03
84	T	1,3-Dichlorobenzene	1.917	1.787	6.8	89	0.03
85	T	1,4-Dichlorobenzene	1.739	1.616	7.1	87	0.03
86	T	n-Butylbenzene	2.723	2.475	9.1	78	0.02
87	T	1,2-Dichlorobenzene	1.554	1.488	4.2	91	0.03
88	T	1,2-Dibromo-3-chloropropane	0.073	0.068	6.8	86	0.03
89	T	1,2,4-Trichlorobenzene	0.498	0.431	13.5	80	0.04
90	T	Hexachlorobutadiene	0.403	0.421	-4.5	96	0.03
91	T	Naphthalene	0.600	0.533	11.2	88	0.03
92	T	1,2,3-Trichlorobenzene	0.384	0.346	9.9	81	0.04

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 2/8/07 ☐ 5-ml Purge ☑ 25-ml Purge Book # A67 -027

BATCH V067B086

	Sample Prep ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
	01	RBC090	BFBC7B07 ✓	2µL				
	02	091	V067B081 ✓	.06/.15/.03µL				Ket/AA 8260 TBA 0.6 0.3 1.5 ppb
	03	092	2 ✓	.1/.25/.05µL				1 0.5 2.5
	04	093	3 ✓	.2/.5/.1µL				2 1 5
	05	094	4 ✓	.4/1/.2µL				4 2 10
	06	095	5 ✓	1/2.5/.5µL				10 5 25
	07	096	6 ✓	2/5/1µL				20 10 50
	08	097	7 ✓	4/10/2µL				40 20 100
	09	098	8 ✓	6/15/3µL				60 30 150
	10	099	9 ✓	8/20/4µL				80 40 200
	11	100	10 ✓	10/25/5µL				100 50 250
	12	101	15/55 Check					
	13	102	V067B07B					
	14	103	1V067B081 ✓	2/5/1µL				20 10 50
	15	104	2	2/5/1µL				20 10 50
	16	105	Rinse					
	17	106	Rinse					
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							CGM 2/8/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	2/8/07
ICAL ID	V067B08

STANDARDS

NAME	ID	CONC. (mg/L)
DCC Ket/AA	SVIC-11-63-1	250
DCC 8260	SVIC-11-60-1	50/250
DCC Gases	SVIC-11-60-3	250
DCC Freon 114	SVIC-11-64-1	250
BFB	SVIC-11-49-3	50
IS/SURR.	SVIC-11-62-2	250
LCS Ket/AA	SVIC-11-59-3	250
LCS 8260	SVIC-11-63-2	50-1000
LCS Gases	SVIC-11-61-3	250
LCS Freon 114	SVIC-11-64-2	250
SOLVENT 15	SVIC.11.62.1 ID	250
METHANOL 55	SVIC.11.62.3	250
DATA FILE	07B08	

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments: Freon 114 - Dichlorotetrafluoroethane

Analyzed By: CGM

Date Disposed: 2/9/07

Disposed By: CGM

2888

EMAX LABORATORIES, INC.

ANALYSIS LOG for VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 6/1/07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A67 -028

BATCH CV067B0863

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RFC001	BFB67F01	2µL				15:33
02	002	CV067B0863	2.5µL				
03	003	64					
04	004	V067F01L		1.0			
05	005	C					
06	006	B	25mL				
07	007	Q					
08	008	07E378-07 x			<2		
09	009	07E340-05 x					
10	010	-01 x					SS low, rr 1x
11	011	-03 x					
12	012	-06 x					
13	013	-08					
14	014	-11					
15	015	-13T	100µL	250			
16	016	07E353-01	25mL	1.0			5x
17	017	07E373-03					
18	018	-04T					
19	019	-04					
20	020	07E340-13					03:18
21	021	Rinse					
22	022	Rinse					
23							
24							
25							CGM 6/1/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	2/8/07
ICAL ID	V067B08

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SVIC-11-87-1	250
DCC	-85-2	50/250
DCC	-86-2	250
BFB	-58-1	50
IS/SURR.	-79-1	250
LCS	-87-2	250
LCS	-81-3	50-1000
LCS	-85-3	250

SOLVENT	ID
METHANOL	
DATA FILE	07F01

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: CGM

Date Disposed: 6/3/07

Disposed By: CGM

2003

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* VOLATILES

SOP: ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 6/6/07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A67 -028

BATCH CV067B0877

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RFC147	BFB 67F13	2µL				
02	148	14	↓				05:26
03	149	CV067B0877	2.5µL				
04	150	78					
05	151	VC67F14L		1.0			
06	152	C					
07	153	CGM 45 BB	25mL				
08	154	BQ					
09	156	07E373-07R					
10	157	07E384-05R					
11	158	07E340-05R					
12	159	-01R					
13	160	-03R					
14	161	-06R					
15	162	07E353-01T	5.0mL	5.0			
16	163	07E373-06R	25mL	1.0			
17	164	07E384-01T	.500µL	50			
18	165	-02R	25mL	1.0			
19	166	-04T	2.5mL	10			
20	167	07E387-07R	25mL	1.0			17:05
21							
22							
23							
24							
25							CGM 6/5/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	2/8/07
ICAL ID	VO67B08

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	SVC-11-87-1	250
DCC	-85-2	50/250
DCC	-86-2	250
BFB	-58-1	50
IS/SURR.	-79-1	250
LCS	-87-2	250
LCS	-81-3	50-100
LCS	-86-3	250

SOLVENT	ID
METHANOL	
DATA FILE	07F05

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: CGM

Date Disposed: 6/6/07

Disposed By: CGM

20140

TABLE OF CONTENTS

CLIENT: **SHAW E&I**

PROJECT: **ALAMEDA POINT, CTO 133**

SDG: **07F208**

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1005
GC/MS-VOA	METHOD 5030B/8260B	2000 – 2027
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 06-28-2007
EMAX Batch No.: 07F208

Attn: Rose Condit

Shaw E&I
4005 Port Chicago Hwy
Concord CA 94520

Subject: Laboratory Report
Project: Alameda Point, CTO 133

Enclosed is the Laboratory report for samples received on 06/18/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
133-4-2-INF(06/15/07)	F208-01	06/15/07	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

CHAIN OF CUSTODY

Ref. Document # 13[illegible]5

07F208

Page 1 of 1

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 108816
Project Name / Location: Alameda CTO 133
Purchase Order #: 41926

Project Manager: John McGuire (Name & phone #)

Shipment Date: 6/15/2007
Waybill Number: UPS 1Z 89V 462 01 9274 6123
Lab Destination: EMAX, 1835 205th St., Torrance, 90501
Lab Contact Name / ph. #: Ye-Myint, 310-618-8889

Send Report To: Rose Condit
Phone/Fax Number: 925-288-2151
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Vincent Chan

	Sample ID Number	Sample Description	Collection Information Date	Time	Method	Matrix	# of containers	Container Type	VOCs (8260B)- Full 8260 list					Cooler Temp				
								Preservative (water)	HCL									
								Preservative (soil)	Ice									
								Container Type	3-VOA									
1	133-4-2-inf(06/15/07)	Influent to GAC - 4-2	06/15/07	0800	G	WW	3		X									
	Temp Blank													X				
								T=17.3°C										

Special Instructions:

Turnaround Time: 10 day ☐ 24-hr ☐ 48-hr ☐ 5-day

Level Of QC Required: I II III Project Specific:

Relinquished By: Vincent Chan Date: 6/15/2007 Time:

Received By: UPS 1Z 89V 462 01 9274 6123 Date: Time:

Relinquished By: Date: Time:

Received By: [signature] Date: 6/15/07 Time: 1100

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07F208
☐ Client Delivery		Recepient A FUENTES
☐ Third Party UPS		Date 061807
		Time 1100

COC Inspection

☑ Client Name ☐ Client PM/FC ☐ Sampler Name ☐ Sampling Date/Time/Location ☐ Sample ID ☐ Matrix
☐ Address ☐ Tel # / Fax # ☐ Courier Signature ☑ Analysis Required ☐ Preservative (if any) ☐ TAT

Safety Issues

☐ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ Insufficient
Temperatures	☑ Cooler 1 17.3 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
			A2	R2
			G1	R5

REVIEWS

Sample Labeling _____ Date 06/18/07

SRF _____ Date 6/18/07

PM _____ Date 6/18/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	Proceed with analysis
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1			
C3	Leaking container	H2			
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

Ye Myint

From: Condit, Rose [Rose.Condit@shawgrp.com]
Sent: Monday, June 18, 2007 11:45 AM
To: Ye Myint
Cc: So, Charlie
Subject: RE: 133-4-2-inf(06/15/07)

Proceed with analysis.

Rose Condit
Shaw Environmental
Program Chemist
4005 Port Chicago Hwy.
Concord, CA. 94520
ph: 925-288-2151 fax: 925-827-2238

From: Ye Myint [mailto:YMyint@emaxlabs.com]
Sent: Monday, June 18, 2007 11:44 AM
To: Condit, Rose
Subject: 133-4-2-inf(06/15/07)

Rose,

The subject sample was received this morning with the cooler temp. at 17.3 degree C. Please advise. Thanks.

Ye Myint
Project Manager
EMAX Laboratories, Inc.
1835 W 205th. St.
Torrance, CA 90501
Phone: (310) 618-8889 x121
Fax: (310) 618-0818
e-mail: ymyint@emaxlabs.com

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_____ The Shaw Group Inc. http://www.shawgrp.com

UPS CampusShip: View/Print Label

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the dotted line.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers without a Daily Pickup
   - Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   - Hand the package to any UPS driver in your area.
   - Take your package to a location of The UPS Store®, UPS Drop Box, UPS Customer Center or Authorized Shipping Outlet near you. Items sent via UPS Return Services (including Ground Returns) are accepted at any UPS Drop Box.
   - To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup
   - Your driver will pickup your shipment(s) as usual.

FOLD HERE

VINCENT CHAN
5107486030
ALAMEDA 89V462
399 W SEAPLANE LAGOON
ALAMEDA CA 94501

12 LBS 1 1

SHIP TO:
YE-MYINT
3106188889
EMAX
1835 205TH ST
TORRANCE CA 90501-1510

07F208
061807
1900

CA 908 9-02

UPS NEXT DAY AIR 1
TRACKING #: 1Z 89V 462 01 9274 6123

BILLING: P/P

Business Unit or Job Number: 00501.108816.4701.42010290
Sender's Name: Vincent Chan

CS 9.0.20.0 WXPE70 64.0A 02/2007

TM

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

SHAW E&I

ALAMEDA POINT, CTO 133

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07F208

CASE NARRATIVE

CLIENT: SHAW E&I

PROJECT: ALAMEDA POINT, CTO 133

SDG: 07F208

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

One (1) water sample was received on 06/18/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd edition.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Sample was analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRON
VOLATILE ORGANICS BY GC/MS

Client : SHAW E&I
Project : ALAMEDA POINT, CTO 133

SDG NO. : 07F208
Instrument ID : T-OD3

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VOD3F62Q	1	NA	06/21/0714:03	06/21/0714:03	RFE759	RFE450	VOD3F62	Method Blank
LCS1W	VOD3F62L	1	NA	06/21/0712:14	06/21/0712:14	RFE756	RFE450	VOD3F62	Lab Control Sample (LCS)
LCD1W	VOD3F62C	1	NA	06/21/0712:50	06/21/0712:50	RFE757	RFE450	VOD3F62	LCS Duplicate
133-4-2-INF(06/15/07)	F208-01R	1	NA	06/21/0717:09	06/21/0717:09	RFE763	RFE450	VOD3F62	Field Sample

FN - Filename
% Moist - Percent Moisture

2662

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

lient	: SHAW E&I	Date Collected:	06/15/07
roject	: ALAMEDA POINT, CTO 133	Date Received:	06/18/07
atch No.	: 07F208	Date Extracted:	06/21/07 17:09
ample ID:	133-4-2-INF(06/15/07)	Date Analyzed:	06/21/07 17:09
ab ID:	F208-01R	Dilution Factor:	1
ab ID:	RFE763	Matrix	: WATER
xt ch ID:	VOD3F62	% Moisture	: NA
alib. Ref.:	RFE450	Instrument ID	: T-OD3

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,1-TRICHLOROETHANE	ND	0.50	0.20
,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,2-TRICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHENE	3.1	0.50	0.20
,1-DICHLOROPROPENE	ND	0.50	0.20
,2,3-TRICHLOROBENZENE	ND	0.50	0.20
,2,3-TRICHLOROPROPANE	ND	0.50	0.50
,2,4-TRICHLOROBENZENE	ND	0.50	0.20
,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
,2-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROETHANE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
,3-DICHLOROBENZENE	ND	0.50	0.20
,3-DICHLOROPROPANE	ND	0.50	0.20
,4-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
ENZENE	ND	0.50	0.20
ROMOBENZENE	ND	0.50	0.20
ROMOCHLOROMETHANE	ND	1.0	0.20
ROMODICHLOROMETHANE	ND	0.50	0.20
ROMOFORM	ND	0.50	0.30
ROMOMETHANE	ND	0.50	0.20
ARBON TETRACHLORIDE	ND	0.50	0.20
HLOROBENZENE	ND	0.50	0.20
HLOROETHANE	ND	0.50	0.20
HL ORM	ND	0.50	0.20
HL ETHANE	ND	0.50	0.20
IS- ,2-DICHLOROETHENE	ND	0.50	0.20
IBROMOCHLOROMETHANE	ND	0.50	0.20
IBROMOMETHANE	ND	0.50	0.20
ICHLORODIFLUOROMETHANE	ND	0.50	0.30
THYLBENZENE	ND	0.50	0.20
EXACHLOROBUTADIENE	ND	1.0	0.20
SOPROPYL BENZENE	0.31J	0.50	0.20
/P-XYLENES	ND	1.0	0.50
ETHYLENE CHLORIDE	ND	1.0	0.50
-BUTYLBENZENE	ND	0.50	0.20
-PROPYLBENZENE	ND	0.50	0.20
APHTHALENE	ND	0.50	0.50
-XYLENE	ND	0.50	0.20
-ISOPROPYLTOLUENE	ND	0.50	0.20
EC-BUTYLBENZENE	ND	0.50	0.20
TYRENE	ND	0.50	0.20
ERT-BUTYLBENZENE	ND	0.50	0.20
ETRACHLOROETHYLENE	ND	0.50	0.20
OLUENE	ND	0.50	0.20
RANS-1,2-DICHLOROETHENE	ND	0.50	0.20
RICHLOROETHENE	ND	0.50	0.20
RICHLORODFLUOROMETHANE	ND	0.50	0.20
INYL CHLORIDE	ND	0.50	0.20
CETONE	84	10	5.0
-BUTANONE	52	10	5.0
TBE	ND	1.0	0.20
ERT-BUTANOL	ND	20	5.0
-METHYL-2-PENTANONE	ND	10	5.0
-HEXANONE	ND	10	5.0

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	96	70-140
OLUENE-D8	103	70-140
-BROMOFLUOROBENZENE	109	70-130

L: Reporting Limit

QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

lient	: SHAW E&I	Date Collected:	NA
roject	: ALAMEDA POINT, CTO 133	Date Received:	06/21/07
atch No.	: 07F208	Date Extracted:	06/21/07 14:03
ample ID:	MBLK1W	Date Analyzed:	06/21/07 14:03
ab ID:	VOD3F62Q	Dilution Factor:	1
ab ID:	RFE759	Matrix	: WATER
xt Batch ID:	VOD3F62	% Moisture	: NA
alib. Ref.:	RFE450	Instrument ID	: T-OD3

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
,1,1,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,1-TRICHLOROETHANE	ND	0.50	0.20
,1,2,2-TETRACHLOROETHANE	ND	0.50	0.20
,1,2-TRICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHANE	ND	0.50	0.20
,1-DICHLOROETHENE	ND	0.50	0.20
,1-DICHLOROPROPENE	ND	0.50	0.20
,2,3-TRICHLOROBENZENE	ND	0.50	0.20
,2,3-TRICHLOROPROPANE	ND	0.50	0.50
,2,4-TRICHLOROBENZENE	ND	0.50	0.20
,2,4-TRIMETHYLBENZENE	ND	0.50	0.20
,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
,2-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROETHANE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
,2-ETHYLENEDIBROMIDE	ND	1.0	0.20
,3,5-TRIMETHYLBENZENE	ND	0.50	0.20
,3-DICHLOROBENZENE	ND	0.50	0.20
,3-DICHLOROPROPANE	ND	0.50	0.20
,4-DICHLOROBENZENE	ND	0.50	0.20
,2-DICHLOROPROPANE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
-CHLOROTOLUENE	ND	0.50	0.20
ENZENE	ND	0.50	0.20
ROMOBENZENE	ND	0.50	0.20
ROMOCHLOROMETHANE	ND	1.0	0.20
ROMODICHLOROMETHANE	ND	0.50	0.20
ROMOFORM	ND	0.50	0.30
ROMOMETHANE	ND	0.50	0.20
ARBON TETRACHLORIDE	ND	0.50	0.20
HLOROBENZENE	ND	0.50	0.20
HLOROETHANE	ND	0.50	0.20
HL ORM	ND	0.50	0.20
HL ETHANE	ND	0.50	0.20
IS- ,2-DICHLOROETHENE	ND	0.50	0.20
IBROMOCHLOROMETHANE	ND	0.50	0.20
IBROMOMETHANE	ND	0.50	0.20
ICHLORODIFLUOROMETHANE	ND	0.50	0.30
THYLBENZENE	ND	0.50	0.20
EXACHLOROBUTADIENE	ND	1.0	0.20
SOPROPYL BENZENE	ND	0.50	0.20
/P-XYLENES	ND	1.0	0.50
ETHYLENE CHLORIDE	ND	1.0	0.50
-BUTYLBENZENE	ND	0.50	0.20
-PROPYLBENZENE	ND	0.50	0.20
APHTHALENE	ND	0.50	0.50
-XYLENE	ND	0.50	0.20
-ISOPROPYLTOLUENE	ND	0.50	0.20
EC-BUTYLBENZENE	ND	0.50	0.20
TYRENE	ND	0.50	0.20
ERT-BUTYLBENZENE	ND	0.50	0.20
ETRACHLOROETHYLENE	ND	0.50	0.20
OLUENE	ND	0.50	0.20
RANS-1,2-DICHLOROETHENE	ND	0.50	0.20
RICHLOROETHENE	ND	0.50	0.20
RICHLOROFLUOROMETHANE	ND	0.50	0.20
INYL CHLORIDE	ND	0.50	0.20
CETONE	ND	10	5.0
-BUTANONE	ND	10	5.0
TBE	ND	1.0	0.20
ERT-BUTANOL	ND	20	5.0
-METHYL-2-PENTANONE	ND	10	5.0
-HEXANONE	ND	10	5.0

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	98	70-140
OLUENE-D8	100	70-130
-BROMOFLUOROBENZENE	105	70-130

L: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: SHAW E&I
PROJECT: ALAMEDA POINT, CTO 133
BATCH NO.: 07F208
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOD3F62Q	VOD3F62L	VOD3F62C		
LAB FILE ID:	RFE759	RFE756	RFE757		
DATE EXTRACTED:	06/21/0714:03	06/21/0712:14	06/21/0712:50	DATE COLLECTED:	NA
DATE ANALYZED:	06/21/0714:03	06/21/0712:14	06/21/0712:50	DATE RECEIVED:	06/21/07
PREP. BATCH:	VOD3F62	VOD3F62	VOD3F62		
CALIB. REF:	RFE450	RFE450	RFE450		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.45	94	10.0	9.88	99	4	60-130	30
Benzene	ND	10.0	10.3	103	10.0	10.4	104	2	70-130	30
Chlorobenzene	ND	10.0	10.3	103	10.0	10.6	106	4	70-130	30
Toluene	ND	10.0	10.1	101	10.0	10.6	106	5	70-130	30
Trichloroethene	ND	10.0	10.0	100	10.0	10.4	104	4	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.66	97	10.0	9.39	94	70-140
Toluene-d8	10.0	10.4	104	10.0	9.96	100	70-130
4-Bromofluorobenzene	10.0	11.2	112	10.0	11.2	112	70-130

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

.ab Name: EMAX Inc
.ab Code: EMXT Case No.:
.ab File ID: RFE444
nstrument ID: T-OD3
iC [ ]mn:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07F208
BFB Injection Date : 06/13/07
BFB Injection Time : 12:46
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.97
75	30.0 - 60.0% of mass 95	46.18
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.25
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	99.51
175	5.0 - 9.0% of mass 174	7.67(7.7)1
176	95.0 - 101.0% of mass 174	96.01(96.5)1
177	5.0 - 9.0% of mass 176	6.35(6.6)2

1-Value is % mass 174 2-Value is % mass 176

'HIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VOD3F131	RFE445	06/13/07	13:22
2	VSTD0.5	VOD3F132	RFE446	06/13/07	13:59
3	VSTD01	VOD3F133	RFE447	06/13/07	14:35
4	VSTD02	VOD3F134	RFE448	06/13/07	15:11
5	VSTD05	VOD3F135	RFE449	06/13/07	15:47
6	VSTD010	VOD3F136	RFE450	06/13/07	16:24
7	VSTD020	VOD3F137	RFE451	06/13/07	17:00
8	VSTD030	VOD3F138	RFE452	06/13/07	17:36
9	VSTD040	VOD3F139	RFE453	06/13/07	18:12
0	VSTD050	VOD3F1310	RFE454	06/13/07	18:49
1	VSTD010	IVOD3F1302	RFE458	06/13/07	21:13

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :D3
Beginning DateTime :06/13/07 13:22
Spike Units :PPB
IC File :RFE450

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :06/13/07 18:49
HPChem Method :VOD3F13

M	IDX	Parameters	.3 13:22 RFE445	.5 13:59 RFE446	1 14:35 RFE447	2 15:11 RFE448	5 15:47 RFE449	10 16:24 RFE450	20 17:00 RFE451	30 17:36 RFE452	40 18:12 RFE453	50 18:49 RFE454	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8590
	2	Dichlorodifluoromethane	------	0.282	0.264	0.275	0.296	0.347	0.311	0.303	0.273	0.301	0.295	8.48	3.2272
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.269	0.264	0.278	0.341	0.392	0.353	0.362	0.343	0.377	0.331	14.61	3.7083
	5	Vinyl chloride	0.284	0.309	0.296	0.304	0.322	0.374	0.356	0.349	0.323	0.348	0.326	8.95	3.8315
	6	Bromomethane	0.415	0.400	0.381	0.361	0.327	0.344	0.315	0.323	0.311	0.347	0.353	10.23	4.5428
	7	Chloroethane	------	0.175	0.205	0.178	0.179	0.200	0.196	0.195	0.189	0.209	0.192	6.42	4.6573
	8	Dichlorofluoromethane	0.582	0.584	0.538	0.646	0.618	0.615	0.656	0.659	0.641	0.685	0.622	7.08	4.7035
	9	Trichlorofluoromethane	0.379	0.384	0.381	0.427	0.438	0.507	0.457	0.444	0.406	0.460	0.428	9.72	5.0457
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
2	11	Acrolein	------	------	0.009	0.010	0.012	0.013	0.013	0.013	0.014	0.014	0.012	14.58	5.5929
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.267	0.230	0.238	0.300	0.250	0.231	0.266	0.256	0.257	0.268	0.256	8.22	5.6152
2	13	Acetone	------	------	------	------	0.036	0.034	0.029	0.031	0.031	0.031	0.032	8.35	5.6721
	14	1,1-Dichloroethene	0.387	0.357	0.361	0.444	0.395	0.402	0.436	0.446	0.433	0.475	0.414	9.44	5.8860
5	15	tert-Butyl alcohol	------	------	0.011	0.012	0.011	0.011	0.010	0.011	0.010	0.010	0.011	4.65	5.9295
	16	Methyl acetate	------	------	0.117	0.084	0.075	0.080	0.069	0.077	0.080	0.078	0.082	17.83	6.2662
	17	Iodomethane	------	0.080	0.129	0.243	0.374	0.517	0.555	0.520	0.554	0.605	0.397	50.24	6.3349
	18	Methylene chloride	------	0.804	0.565	0.444	0.378	0.357	0.336	0.337	0.349	0.370	0.438	35.54	6.5119
	19	Carbon disulfide	0.659	0.639	0.640	0.715	0.703	0.731	0.764	0.767	0.844	0.912	0.737	12.00	6.6226
3	20	Acrylonitrile	0.039	0.037	0.036	0.037	0.036	0.035	0.032	0.035	0.038	0.038	0.036	5.53	6.6360
	21	tert-Butyl methyl ether (MTBE)	0.409	0.365	0.390	0.401	0.388	0.360	0.342	0.357	0.398	0.409	0.382	6.28	6.6851
	22	trans-1,2-Dichloroethene	0.388	0.388	0.379	0.434	0.379	0.388	0.426	0.394	0.440	0.463	0.408	7.36	6.9023
	23	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	24	Isopropyl ether (DIPE)	0.967	0.802	0.762	0.830	0.738	0.718	0.719	0.742	0.798	0.852	0.793	9.66	7.2386
	25	Vinyl acetate	------	0.175	0.126	0.192	0.187	0.171	0.176	0.203	0.216	------	0.181	14.92	7.3703
	26	1,1-Dichloroethane	0.532	0.485	0.487	0.568	0.525	0.496	0.518	0.531	0.523	0.571	0.524	5.68	7.4470
	27	tert-Butyl ethyl ether (ETBE)	0.489	0.468	0.487	0.523	0.536	0.488	0.489	0.522	0.544	0.576	0.512	6.54	7.7654
2	28	2-Butanone	------	------	0.051	0.050	0.047	0.047	0.040	0.045	0.047	0.048	0.047	7.01	7.9383
	29	2,2-Dichloropropane	0.444	0.409	0.391	0.456	0.411	0.394	0.420	0.423	0.421	0.440	0.421	5.00	8.1775
	30	cis-1,2-Dichloroethene	0.434	0.406	0.432	0.476	0.438	0.432	0.450	0.461	0.478	0.503	0.451	6.35	8.2385
	31	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	32	Chloroform	0.614	0.552	0.554	0.619	0.554	0.539	0.570	0.562	0.575	0.596	0.574	4.82	8.4469
	33	Bromochloromethane	0.232	0.179	0.188	0.196	0.197	0.188	0.191	0.193	0.195	0.209	0.197	7.40	8.6835
	34	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	1,1,1-Trichloroethane	0.452	0.416	0.447	0.508	0.461	0.444	0.481	0.465	0.478	0.499	0.465	5.92	8.9930
	36	Cyclohexane	0.488	0.390	0.745	0.493	0.307	0.355	0.337	0.368	0.418	0.401	0.430	29.24	9.0480
	37	tert-Amyl methyl ether (TAME)	0.404	0.302	0.400	0.396	0.423	0.407	0.395	0.431	0.461	0.483	0.410	11.69	9.2891
	38	1,2-Dichloroethane-d4	0.270	0.220	0.242	0.236	0.227	0.211	0.218	0.213	0.192	0.177	0.221	11.82	9.3858
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	15.2634
	40	1,1-Dichloropropene	0.166	0.126	0.159	0.153	0.148	0.151	0.163	0.160	0.177	0.187	0.159	10.52	9.1894
	41	Carbon tetrachloride	0.510	0.461	0.465	0.512	0.459	0.449	0.488	0.476	0.489	0.498	0.481	4.57	9.3590
	42	1,2-Dichloroethane	0.367	0.277	0.332	0.331	0.307	0.304	0.294	0.296	0.309	0.323	0.314	8.06	9.5078
	43	Benzene	1.531	1.134	1.409	1.426	1.360	1.382	1.362	1.399	1.575	1.684	1.426	10.37	9.5762
	44	Methylcyclohexane	0.447	0.312	0.414	0.386	0.358	0.467	0.435	0.502	------	------	0.415	14.75	10.5199
	45	Trichloroethene	0.489	0.379	0.459	0.449	0.435	0.435	0.445	0.446	0.485	0.509	0.453	7.97	10.3991
	46	1,2-Dichloropropane	0.315	0.254	0.305	0.287	0.286	0.282	0.275	0.284	0.321	0.330	0.294	7.94	10.6402
	47	Bromodichloromethane	0.475	0.390	0.452	0.438	0.405	0.410	0.410	0.411	0.460	0.462	0.431	6.86	11.0092
	48	Dibromomethane	0.172	0.146	0.181	0.170	0.166	0.174	0.160	0.164	0.175	0.179	0.169	6.18	11.1282
	49	2-Chloroethyl vinyl ether	------	------	------	0.025	0.032	0.036	0.034	0.041	------	------	0.034	17.30	11.3507
	50	4-Methyl-2-pentanone	------	------	0.155	0.111	0.125	0.146	0.118	0.135	0.161	0.157	0.139	13.69	11.4109
	51	cis-1,3-Dichloropropene	0.380	0.260	0.348	0.339	0.357	0.380	0.376	0.388	0.444	0.460	0.373	14.86	11.8410
	52	Toluene-d8	------	------	------	------	1.051	1.066	1.183	1.112	1.076	1.055	1.090	4.61	12.3235
	53	Toluene	------	0.599	0.679	0.804	0.813	0.807	0.852	0.858	0.937	0.980	0.814	14.41	12.4704
	54	Ethyl methacrylate	------	------	0.159	0.168	0.195	0.202	0.201	0.213	0.239	------	0.197	13.80	12.5690
	55	trans-1,3-Dichloropropene	------	0.212	0.246	0.263	0.291	0.277	0.287	0.297	0.326	0.333	0.281	13.51	12.6936
2	56	2-Hexanone	------	------	------	0.061	0.075	0.082	0.070	0.080	0.090	0.094	0.079	14.14	12.9304
	57	1,1,2-Trichloroethane	0.223	0.185	0.199	0.218	0.208	0.199	0.191	0.197	0.210	0.219	0.205	6.18	13.0224
	58	1,3-Dichloropropane	0.312	0.270	0.308	0.325	0.339	0.328	0.326	0.338	0.356	0.366	0.327	8.21	13.4897

pw 6/19/07

59	Tetrach[illegible]ethene	0.333	0.318	0.335	0.397	0.381	0.3[illegible]	[illegible].395	0.396	0.413	0.435	0.376	10.12	13.7129
60	Dibromochloromethane	0.303	0.241	0.289	0.288	0.293	0.280	0.282	0.283	0.299	0.309	0.287	6.55	14.1013
61	1,2-Dibromoethane	0.185	0.167	0.184	0.198	0.202	0.194	0.193	0.200	0.215	0.223	0.196	8.10	14.5119
62	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
63	1-Chlorohexane	------	0.272	0.334	0.460	0.495	0.504	0.581	0.599	0.650	0.708	0.511	27.78	14.6743
64	Chlorobenzene	0.896	0.833	0.845	0.937	0.908	0.886	0.913	0.910	0.968	1.021	0.912	6.05	15.3467
65	1,1,1,2-Tetrachloroethane	0.327	0.293	0.321	0.365	0.347	0.321	0.331	0.333	0.353	0.364	0.336	6.63	15.3958
66	Ethylbenzene	1.291	1.276	1.342	1.618	1.630	1.610	1.738	1.735	1.855	1.989	1.609	14.96	15.3988
2 67	m-Xylene & p-Xylene	0.935	0.944	1.066	1.219	1.267	1.243	1.351	1.312	1.404	1.381	1.212	14.25	15.5580
68	o-Xylene	0.772	0.763	0.890	1.117	1.226	1.263	1.322	1.341	1.395	1.486	1.157	22.65	16.5133
69	Styrene	0.517	0.533	0.651	0.780	0.860	0.893	0.949	0.964	1.014	1.093	0.825	24.25	16.5758
70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	21.5427
71	Bromoform	0.333	0.287	0.326	0.342	0.324	0.287	0.292	0.316	0.343	0.369	0.322	8.45	17.3957
72	Isopropylbenzene	1.722	1.868	2.212	3.152	2.962	2.860	3.214	3.342	3.611	------	2.772	24.36	17.2716
73	1,1,2,2-Tetrachloroethane	0.505	0.430	0.479	0.527	0.470	0.419	0.419	0.460	0.502	0.535	0.475	9.02	17.6278
74	4-Bromofluorobenzene	------	------	------	------	0.732	0.724	0.808	0.795	0.759	0.771	0.765	4.36	17.8687
75	1,2,3-Trichloropropane	------	0.104	0.109	0.128	0.118	0.110	0.102	0.110	0.117	0.128	0.114	8.33	17.9743
76	trans-1,4-Dichloro-2-butene	------	------	0.063	0.075	0.083	0.076	0.077	0.088	0.094	------	0.079	12.61	18.0766
77	n-Propylbenzene	2.460	2.425	3.097	4.204	3.928	3.738	4.225	4.444	4.757	------	3.698	22.99	18.1793
78	Bromobenzene	0.674	0.672	0.733	0.908	0.811	0.788	0.810	0.834	0.898	0.976	0.810	12.28	18.3658
79	1,3,5-Trimethylbenzene	1.328	1.439	1.926	2.532	2.432	2.343	2.563	2.676	2.903	3.214	2.335	25.91	18.5325
80	2-Chlorotoluene	------	1.485	1.704	2.234	1.957	1.823	1.967	2.226	------	------	1.914	14.17	18.6421
81	4-Chlorotoluene	1.602	1.763	1.951	2.298	2.135	2.063	2.226	2.140	2.389	2.718	2.128	14.86	18.7348
82	tert-Butylbenzene	1.335	1.280	1.752	2.361	2.211	2.160	2.431	2.612	2.722	------	2.096	25.13	19.3680
83	1,2,4-Trimethylbenzene	1.453	1.658	2.114	2.633	2.514	2.406	2.589	2.686	2.842	3.155	2.405	21.83	19.4640
84	sec-Butylbenzene	1.947	2.004	2.738	3.634	3.434	3.319	3.797	3.970	4.224	------	3.230	25.58	19.8640
85	p-Isopropyltoluene	1.443	1.618	2.206	3.015	2.856	2.816	3.176	3.230	3.459	3.862	2.768	28.29	20.1737
86	1,3-Dichlorobenzene	1.453	1.386	1.534	1.826	1.693	1.601	1.703	1.739	1.854	2.035	1.682	11.69	20.4713
87	1,4-Dichlorobenzene	1.350	1.324	1.470	1.665	1.589	1.516	1.583	1.651	1.732	1.884	1.576	10.84	20.7109
88	n-Butylbenzene	1.318	1.377	2.128	2.843	2.759	2.657	3.208	3.217	3.496	3.833	2.684	31.55	21.1439
89	1,2-Dichlorobenzene	1.531	1.369	1.442	1.646	1.499	1.412	1.429	1.464	1.546	1.650	1.499	6.33	21.6096
90	1,2-Dibromo-3-chloropropane	------	0.053	0.063	0.075	0.075	0.073	0.074	0.080	0.087	------	0.072	14.16	23.4629
91	1,2,4-Trichlorobenzene	0.713	0.624	0.743	0.918	0.932	0.914	0.996	1.036	1.081	1.136	0.909	18.41	25.6138
92	Hexachlorobutadiene	------	0.486	0.643	0.735	0.667	0.640	0.737	0.748	0.774	0.832	0.696	14.50	25.9351
93	Naphthalene	0.934	0.752	0.792	1.030	1.173	1.162	1.197	1.302	1.392	1.461	1.119	21.46	26.2715
94	1,2,3-Trichlorobenzene	------	0.560	0.658	0.802	0.811	0.788	0.822	0.838	0.874	0.913	0.785	13.96	26.8643

Spike Amount = Nominal Amount * M
Ave_%RSD : 13.1 Max_%RSD : 50.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
16	Methyl acetate	0.00267	0.07600	0.9983
17	Iodomethane	-0.03956	0.57004	0.9968
18	Methylene chloride	0.02127	0.34506	0.9989
49	2-Chloroethyl vinyl ether	-0.00334	0.03954	0.9958
63	1-Chlorohexane	-0.03123	0.64770	0.9955
68	o-Xylene	-0.03366	1.40191	0.9985
69	Styrene	-0.02650	1.01787	0.9978
72	Isopropylbenzene	-0.07746	3.39481	0.9975
77	n-Propylbenzene	-0.09714	4.47939	0.9975
79	1,3,5-Trimethylbenzene	-0.07706	2.89501	0.9953
82	tert-Butylbenzene	-0.06105	2.58720	0.9976
83	1,2,4-Trimethylbenzene	-0.06379	2.86823	0.9964
84	sec-Butylbenzene	-0.09493	3.99354	0.9976
85	p-Isopropyltoluene	-0.09894	3.48651	0.9957
88	n-Butylbenzene	-0.10945	3.47834	0.9953
91	1,2,4-Trichlorobenzene	-0.02232	1.07141	0.9981
93	Naphthalene	-0.03318	1.36037	0.9968

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
36	Cyclohexane	0.01112	0.32256	0.01686	0.9954

4u 6/19/07

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F13\RFE458.D Vial: 16
Acq On : 13 Jun 2007 9:13 pm Operator: DN
Sample : IVOD3F1302 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007 Not evaluated
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	10.000	11.575	-15.7	110	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	12.531	-25.3#	118	0.00
5	C,T	Vinyl chloride	10.000	12.462	-24.6#	122	0.00
6	T	Bromomethane	10.000	11.679	-16.8	134	0.00
7	T	Chloroethane	10.000	11.388	-13.9	122	0.00
8	T	Dichlorofluoromethane	10.000	10.778	-7.8	122	0.00
9	T	Trichlorofluoromethane	10.000	11.669	-16.7	110	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	19.805	1.0	105	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	7.965	20.4#	99	0.00
13	T	Acetone	20.000	15.959	20.2#	83	-0.01
14	C,TM	1,1-Dichloroethene	10.000	9.179	8.2	106	0.00
15	T	tert-Butyl alcohol	50.000	45.190	9.6	101	0.00
16	T	Methyl acetate *	10.000	1.083	89.2#	15	0.00
17	T	Iodomethane *	10.000	6.226	37.7#	68	0.02
18	T	Methylene chloride	10.000	8.496	15.0	99	0.00
19	T	Carbon disulfide	10.000	9.337	6.6	105	0.02
20	T	Acrylonitrile	30.000	26.596	11.3	102	0.00
21	T	tert-Butyl methyl ether (MT	10.000	9.106	8.9	108	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.416	5.8	111	0.00
23	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.148	8.5	113	0.00
25	T	Vinyl acetate	10.000	10.644	-6.4	126	0.00
26	P,T	1,1-Dichloroethane	10.000	9.558	4.4	113	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.850	1.5	116	0.02
28	T	2-Butanone	20.000	16.534	17.3	92	0.00
29	T	2,2-Dichloropropane	10.000	9.550	4.5	114	0.00
30	T	cis-1,2-Dichloroethene	10.000	9.586	4.1	112	0.00
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
32	C,T	Chloroform	10.000	9.329	6.7	111	0.00
33	T	Bromochloromethane	10.000	9.700	3.0	114	0.00
34	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
35	T	1,1,1-Trichloroethane	10.000	9.279	7.2	109	0.00
36	T	Cyclohexane *	10.000	0.126	98.7#	5	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	9.989	0.1	113	0.02
38	S	1,2-Dichloroethane-d4	10.000	9.680	3.2	113	0.00
39	I	CHLOROBENZENE-D5	10.000	10.000	0.0	111	-0.01
40	T	1,1-Dichloropropene	10.000	9.498	5.0	112	0.00

(#) = Out of Range

JM 6/19/07
2013

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F13\RFE458.D Vial: 16
Acq On : 13 Jun 2007 9:13 pm Operator: DN
Sample : IVOD3F1302 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

+ Not indicated

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	9.227	7.7	110	0.02
42	T	1,2-Dichloroethane	10.000	9.230	7.7	106	0.02
43	M,T	Benzene	10.000	9.784	2.2	112	0.00
44	T	Methylcyclohexane *	10.000	0.183	98.2#	2	0.02
45	M,T	Trichloroethene	10.000	9.570	4.3	111	0.00
46	C,T	1,2-Dichloropropane	10.000	9.877	1.2	114	0.00
47	T	Bromodichloromethane	10.000	9.277	7.2	109	0.00
48	T	Dibromomethane	10.000	9.988	0.1	108	0.00
49	T	2-Chloroethyl vinyl ether	10.000	10.133	-1.3	114	0.00
50	T	4-Methyl-2-pentanone	20.000	18.466	7.7	98	0.00
51	T	cis-1,3-Dichloropropene	10.000	10.139	-1.4	111	0.00
52	S	Toluene-d8	10.000	10.828	-8.3	123	0.00
53	C,TM	Toluene	10.000	10.573	-5.7	119	0.00
54	T	Ethyl methacrylate	10.000	10.578	-5.8	115	-0.01
55	T	trans-1,3-Dichloropropene	10.000	10.348	-3.5	117	0.00
56	T	2-Hexanone	20.000	19.042	4.8	102	0.00
57	T	1,1,2-Trichloroethane	10.000	9.835	1.6	113	0.00
58	T	1,3-Dichloropropane	10.000	10.630	-6.3	118	-0.01
59	T	Tetrachloroethene	10.000	9.964	0.4	115	-0.01
60	T	Dibromochloromethane	10.000	9.602	4.0	109	-0.01
61	T	1,2-Dibromoethane	10.000	10.126	-1.3	114	-0.01
62	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
63	T	1-Chlorohexane	10.000	9.322	6.8	126	0.00
64	P,M	Chlorobenzene	10.000	10.109	-1.1	116	-0.01
65	T	1,1,1,2-Tetrachloroethane	10.000	9.656	3.4	112	-0.01
66	C,T	Ethylbenzene	10.000	10.528	-5.3	117	-0.01
67	T	m-Xylene & p-Xylene	20.000	21.837	-9.2	119	-0.01
68	T	o-Xylene	10.000	9.733	2.7	117	-0.01
69	T	Styrene	10.000	9.481	5.2	117	-0.01
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	106	-0.01
71	P,T	Bromoform	10.000	9.128	8.7	109	-0.01
72	T	Isopropylbenzene	10.000	9.869	1.3	121	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	10.000	9.610	3.9	115	-0.01
74	S	4-Bromofluorobenzene	10.000	10.842	-8.4	121	-0.01
75	T	1,2,3-Trichloropropane	10.000	9.569	4.3	105	-0.01
76	T	trans-1,4-Dichloro-2-butene	10.000	10.194	-1.9	112	-0.01
77	T	n-Propylbenzene	10.000	9.797	2.0	122	-0.01
78	T	Bromobenzene	10.000	10.148	-1.5	111	0.00
79	T	1,3,5-Trimethylbenzene	10.000	9.467	5.3	121	-0.01
80	T	2-Chlorotoluene	10.000	10.687	-6.9	119	-0.01

(#) = Out of Range

6/19/07

2014

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F13\RFE458.D Vial: 16
Acq On : 13 Jun 2007 9:13 pm Operator: DN
Sample : IVOD3F1302 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	10.502	-5.0	115	-0.01
82	T	tert-Butylbenzene	10.000	9.602	4.0	119	-0.01
83	T	1,2,4-Trimethylbenzene	10.000	9.373	6.3	116	-0.01
84	T	sec-Butylbenzene	10.000	9.724	2.8	121	-0.01
85	T	p-Isopropyltoluene	10.000	9.346	6.5	119	-0.01
86	T	1,3-Dichlorobenzene	10.000	10.182	-1.8	114	-0.01
87	T	1,4-Dichlorobenzene	10.000	10.312	-3.1	114	-0.01
88	T	n-Butylbenzene	10.000	9.313	6.9	125	-0.01
89	T	1,2-Dichlorobenzene	10.000	9.803	2.0	110	-0.03
90	T	1,2-Dibromo-3-chloropropane	10.000	10.651	-6.5	112	-0.01
91	T	1,2,4-Trichlorobenzene	10.000	9.764	2.4	119	-0.03
92	T	Hexachlorobutadiene	10.000	10.181	-1.8	118	-0.01
93	T	Naphthalene	10.000	9.927	0.7	120	-0.03
94	T	1,2,3-Trichlorobenzene	10.000	10.838	-8.4	115	-0.01

RW 6/19/07

(#) = Out of Range SPCC's out = 0 CCC's out = 1

DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

.ab Name: EMAX Inc
.ab Code: EMXT Case No.:
.ab File ID: RFE753
nstrument ID: T-OD3
iC / mn:RTX502.2ID:0.32mm (mm)

Contract: ALAMEDA POINT, CTO 133
SAS No.: SDG No.: 07F208
BFB Injection Date : 06/21/07
BFB Injection Time : 10:25
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.19
75	30.0 - 60.0% of mass 95	46.34
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.87
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	96.32
175	5.0 - 9.0% of mass 174	6.89(7.2)1
176	95.0 - 101.0% of mass 174	93.72(97.3)1
177	5.0 - 9.0% of mass 176	5.92(6.3)2

1-Value is % mass 174 2-Value is % mass 176

HIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CVOD3F1331	RFE754	06/21/07	11:01
2	MBLK1W	VOD3F62Q	RFE759	06/21/07	14:03
3	LCS1W	VOD3F62L	RFE756	06/21/07	12:14
4	LCD1W	VOD3F62C	RFE757	06/21/07	12:50
5	133-4-2-INF(06/15/07)	F208-01R	RFE763	06/21/07	17:09

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: EMAX Inc
ab Code: EMXT
ab File ID: RFE450
nstrument ID: T-OD3
C Column: RTX502.2 ID: 0.32mm (mm)

Project: ALAMEDA POINT, CTO 133
SDG No.: 07F208
Date Analyzed: 06/13/07
Time Analyzed: 16:24
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1830586	9.87	1547909	15.27	847886	21.55
	UPPER LIMIT	3661172	10.37	3095818	15.77	1695772	22.05
	LOWER LIMIT	915293	9.37	773955	14.77	423943	21.05
	SAMPLE ID						
1	VSTD010	1529587	9.87	1348730	15.26	646882	21.52
2	MBLK1W	1584401	9.86	1316966	15.25	588028	21.53
3	LCS1W	1954082	9.87	1587797	15.25	719398	21.53
4	LCD1W	1863847	9.86	1554067	15.26	696351	21.52
5	133-4-2-INF(06/15/07)	2246862	9.85	1720913	15.25	710985	21.53

S1 (DFB) = 1,4-Difluorobenzene
S2 (CBZ) = Chlorobenzene-d5
S3 (DCB) = 1,2-Dichlorobenzene-d4

REA UPPER LIMIT = + 100% of internal standard area
REA LOWER LIMIT = - 50% of internal standard area
REA UPPER LIMIT = + 50% of surrogate area
REA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	10.000	10.860	-8.6	77	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	11.296	-13.0	80	0.04
5	C,T	Vinyl chloride	10.000	11.375	-13.8 ✓	83	0.04
6	T	Bromomethane	10.000	10.558	-5.6	90	0.04
7	T	Chloroethane	10.000	11.482	-14.8	92	0.02
8	T	Dichlorofluoromethane	10.000	11.137	-11.4	94	0.02
9	T	Trichlorofluoromethane	10.000	7.799	22.0#	55	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	16.477	17.6	65	0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.233	7.7	86	0.04
13	T	Acetone	20.000	23.354	-16.8	91	0.04
14	C,TM	1,1-Dichloroethene	10.000	9.735	2.7 ✓	84	0.04
15	T	tert-Butyl alcohol	50.000	49.485	1.0	82	0.04
[illegible]	T	Methyl acetate	10.000	1.879	NT 81.2#	18	0.04
17	T	Iodomethane	10.000	6.857	NT 31.4#	57	0.04
18	T	Methylene chloride	10.000	8.909	10.9	77	0.04
19	T	Carbon disulfide	10.000	8.245	17.6	70	0.04
20	T	Acrylonitrile	30.000	29.794	0.7	85	0.04
21	T	tert-Butyl methyl ether (MT	10.000	8.837	11.6	78	0.02
22	T	trans-1,2-Dichloroethene	10.000	10.021	-0.2	88	0.04
23	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.977	0.2	92	0.04
25	T	Vinyl acetate	10.000	9.571	4.3	85	0.02
26	P,T	1,1-Dichloroethane	10.000	10.439	-4.4	92	0.04
27	T	tert-Butyl ethyl ether (ETB	10.000	10.089	-0.9	89	0.04
28	T	2-Butanone	20.000	20.497	-2.5	85	0.02
29	T	2,2-Dichloropropane	10.000	9.712	2.9	87	0.02
30	T	cis-1,2-Dichloroethene	10.000	10.506	-5.1	92	0.02
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
32	C,T	Chloroform	10.000	10.333	-3.3 ✓	92	0.02
33	T	Bromochloromethane	10.000	10.599	-6.0	93	0.02
34	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
35	T	1,1,1-Trichloroethane	10.000	9.829	1.7	86	0.02
36	T	Cyclohexane	10.000	0.784	92.2#	9	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	10.525	-5.3	89	0.02
38	S	1,2-Dichloroethane-d4	10.000	9.980	0.2	87	0.02
39	I	CHLOROBENZENE-D5	10.000	10.000	0.0	87	0.00
40	T	1,1-Dichloropropene	10.000	9.790	2.1	90	0.02

(#) = Out of Range

2019

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	9.526	4.7	89	0.02
42	T	1,2-Dichloroethane	10.000	9.743	2.6	88	0.02
43	M,T	Benzene	10.000	9.766	2.3	88	0.02
44	T	Methylcyclohexane	10.000	0.107	98.9#	1	-0.11
45	M,T	Trichloroethene	10.000	9.716	2.8	88	0.00
46	C,T	1,2-Dichloropropane	10.000	10.651	-6.5	97	0.02
47	T	Bromodichloromethane	10.000	10.115	-1.2	93	0.00
48	T	Dibromomethane	10.000	10.299	-3.0	87	0.00
49	T	2-Chloroethyl vinyl ether	10.000	5.076	49.2#	41	0.00
50	T	4-Methyl-2-pentanone	20.000	19.885	0.6	82	0.00
51	T	cis-1,3-Dichloropropene	10.000	10.571	-5.7	90	0.00
52	S	Toluene-d8	10.000	9.683	3.2	86	0.00
53	C,TM	Toluene	10.000	10.234	-2.3	90	0.00
54	T	Ethyl methacrylate	10.000	11.352	-13.5	96	0.00
55	T	trans-1,3-Dichloropropene	10.000	11.049	-10.5	98	0.00
56	T	2-Hexanone	20.000	22.235	-11.2	93	0.00
57	T	1,1,2-Trichloroethane	10.000	10.366	-3.7	93	0.00
58	T	1,3-Dichloropropane	10.000	11.055	-10.5	96	0.00
59	T	Tetrachloroethene	10.000	9.565	4.4	86	0.00
60	T	Dibromochloromethane	10.000	10.477	-4.8	94	0.00
61	T	1,2-Dibromoethane	10.000	10.346	-3.5	91	-0.02
62	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
63	T	1-Chlorohexane	10.000	9.234	7.7	98	0.00
64	P,M	Chlorobenzene	10.000	10.404	-4.0	93	-0.02
65	T	1,1,1,2-Tetrachloroethane	10.000	10.554	-5.5	96	-0.02
66	C,T	Ethylbenzene	10.000	10.745	-7.4	94	0.00
67	T	m-Xylene & p-Xylene	20.000	21.418	-7.1	91	-0.02
68	T	o-Xylene	10.000	9.531	4.7	90	-0.02
69	T	Styrene	10.000	9.088	9.1	88	0.00
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	76	-0.02
71	P,T	Bromoform	10.000	10.613	-6.1	91	0.00
72	T	Isopropylbenzene	10.000	10.613	-6.1	94	-0.02
73	P,T	1,1,2,2-Tetrachloroethane	10.000	11.567	-15.7	100	-0.02
74	S	4-Bromofluorobenzene	10.000	10.658	-6.6	86	-0.02
75	T	1,2,3-Trichloropropane	10.000	11.524	-15.2	91	-0.02
76	T	trans-1,4-Dichloro-2-butene	10.000	11.854	-18.5	94	-0.02
77	T	n-Propylbenzene	10.000	10.455	-4.6	94	-0.02
78	T	Bromobenzene	10.000	10.478	-4.8	82	0.00
79	T	1,3,5-Trimethylbenzene	10.000	9.859	1.4	90	-0.02
80	T	2-Chlorotoluene	10.000	12.336	-23.4#	99	-0.02

(#) = Out of Range

2829

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	10.568	-5.7	83	0.00
82	T	tert-Butylbenzene	10.000	10.362	-3.6	93	-0.02
83	T	1,2,4-Trimethylbenzene	10.000	9.935	0.6	88	0.00
84	T	sec-Butylbenzene	10.000	10.723	-7.2	96	-0.02
85	T	p-Isopropyltoluene	10.000	9.915	0.9	91	-0.02
86	T	1,3-Dichlorobenzene	10.000	10.761	-7.6	86	-0.02
87	T	1,4-Dichlorobenzene	10.000	11.009	-10.1	87	-0.02
88	T	n-Butylbenzene	10.000	9.825	1.8	95	-0.02
89	T	1,2-Dichlorobenzene	10.000	10.513	-5.1	85	-0.02
90	T	1,2-Dibromo-3-chloropropane	10.000	10.726	-7.3	81	-0.02
91	T	1,2,4-Trichlorobenzene	10.000	9.067	9.3	79	-0.02
92	T	Hexachlorobutadiene	10.000	10.288	-2.9	85	-0.02
93	T	Naphthalene	10.000	8.357	16.4	72	-0.02
94	T	1,2,3-Trichlorobenzene	10.000	10.237	-2.4	78	0.00

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	0.295	0.320	-8.5	77	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	0#	0.00
4	P,T	Chloromethane	0.331	0.374	-13.0	80	0.04
5	C,T	Vinyl chloride	0.326	0.371	-13.8	83	0.04
6	T	Bromomethane	0.353	0.372	-5.4	90	0.04
7	T	Chloroethane	0.192	0.220	-14.6	92	0.02
8	T	Dichlorofluoromethane	0.622	0.693	-11.4	94	0.02
9	T	Trichlorofluoromethane	0.428	0.334	22.0#	55	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
11	T	Acrolein	0.012	0.010	16.7	65	0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	0.256	0.237	7.4	86	0.04
13	T	Acetone	0.032	0.037	-15.6	91	0.04
14	C,TM	1,1-Dichloroethene	0.414	0.403	2.7	84	0.04
15	T	tert-Butyl alcohol	0.011	0.010	9.1	82	0.04
16	T	Methyl acetate	0.082	0.017	79.3#	18#	0.04
17	T	Iodomethane	0.397	0.351	11.6	57	0.04
18	T	Methylene chloride	0.438	0.329	24.9#	77	0.04
19	T	Carbon disulfide	0.737	0.608	17.5	70	0.04
20	T	Acrylonitrile	0.036	0.036	0.0	85	0.04
21	T	tert-Butyl methyl ether (MT	0.382	0.337	11.8	78	0.02
22	T	trans-1,2-Dichloroethene	0.408	0.409	-0.2	88	0.04
23	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
24	T	Isopropyl ether (DIPE)	0.793	0.791	0.3	92	0.04
25	T	Vinyl acetate	0.181	0.173	4.4	85	0.02
26	P,T	1,1-Dichloroethane	0.524	0.547	-4.4	92	0.04
27	T	tert-Butyl ethyl ether (ETB	0.512	0.517	-1.0	89	0.04
28	T	2-Butanone	0.047	0.048	-2.1	85	0.02
29	T	2,2-Dichloropropane	0.421	0.409	2.9	87	0.02
30	T	cis-1,2-Dichloroethene	0.451	0.474	-5.1	92	0.02
31	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
32	C,T	Chloroform	0.574	0.593	-3.3	92	0.02
33	T	Bromochloromethane	0.197	0.209	-6.1	93	0.02
34	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
35	T	1,1,1-Trichloroethane	0.465	0.457	1.7	86	0.02
36	T	Cyclohexane	0.430	0.037	91.4#	9#	0.00
37	T	tert-Amyl methyl ether (TAM	0.410	0.432	-5.4	89	0.02
38	S	1,2-Dichloroethane-d4	0.221	0.220	0.5	87	0.02
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	87	0.00
40	T	1,1-Dichloropropene	0.159	0.156	1.9	90	0.02

(#) = Out of Range

2022

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.481	0.458	4.8	89	0.02
42	T	1,2-Dichloroethane	0.314	0.306	2.5	88	0.02
43	M,T	Benzene	1.426	1.393	2.3	88	0.02
44	T	Methylcyclohexane	0.415	0.004	99.0#	1#	-0.11
45	M,T	Trichloroethene	0.453	0.440	2.9	88	0.00
46	C,T	1,2-Dichloropropane	0.294	0.313	-6.5	97	0.02
47	T	Bromodichloromethane	0.431	0.436	-1.2	93	0.00
48	T	Dibromomethane	0.169	0.174	-3.0	87	0.00
49	T	2-Chloroethyl vinyl ether	0.034	0.017	50.0#	41#	0.00
50	T	4-Methyl-2-pentanone	0.139	0.138	0.7	82	0.00
51	T	cis-1,3-Dichloropropene	0.373	0.395	-5.9	90	0.00
52	S	Toluene-d8	1.090	1.056	3.1	86	0.00
53	C,TM	Toluene	0.814	0.833	-2.3	90	0.00
54	T	Ethyl methacrylate	0.197	0.223	-13.2	96	0.00
55	T	trans-1,3-Dichloropropene	0.281	0.311	-10.7	98	0.00
56	T	2-Hexanone	0.079	0.088	-11.4	93	0.00
57	T	1,1,2-Trichloroethane	0.205	0.212	-3.4	93	0.00
58	T	1,3-Dichloropropane	0.327	0.361	-10.4	96	0.00
59	T	Tetrachloroethene	0.376	0.360	4.3	86	0.00
60	T	Dibromochloromethane	0.287	0.300	-4.5	94	0.00
61	T	1,2-Dibromoethane	0.196	0.203	-3.6	91	-0.02
62	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
63	T	1-Chlorohexane	0.511	0.567	-11.0	98	0.00
64	P,M	Chlorobenzene	0.912	0.949	-4.1	93	-0.02
65	T	1,1,1,2-Tetrachloroethane	0.336	0.354	-5.4	96	-0.02
66	C,T	Ethylbenzene	1.609	1.728	-7.4	94	0.00
67	T	m-Xylene & p-Xylene	1.212	1.298	-7.1	91	-0.02
68	T	o-Xylene	1.157	1.303	-12.6	90	-0.02
69	T	Styrene	0.825	0.899	-9.0	88	0.00
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	76	-0.02
71	P,T	Bromoform	0.322	0.342	-6.2	91	0.00
72	T	Isopropylbenzene	2.772	3.526	-27.2#	94	-0.02
73	P,T	1,1,2,2-Tetrachloroethane	0.475	0.549	-15.6	100	-0.02
74	S	4-Bromofluorobenzene	0.765	0.815	-6.5	86	-0.02
75	T	1,2,3-Trichloropropane	0.114	0.131	-14.9	91	-0.02
76	T	trans-1,4-Dichloro-2-butene	0.079	0.094	-19.0	94	-0.02
77	T	n-Propylbenzene	3.698	4.586	-24.0#	94	-0.02
78	T	Bromobenzene	0.810	0.849	-4.8	82	0.00
79	T	1,3,5-Trimethylbenzene	2.335	2.777	-18.9	90	-0.02
80	T	2-Chlorotoluene	1.914	2.361	-23.4#	99	-0.02

(#) = Out of Range

3023

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07F21\RFE754.D Vial: 3
Acq On : 21 Jun 2007 11:01 am Operator: DN
Sample : CVOD3F1331 Inst : D3
Misc : 10ppb8260/20.0ppbKET-A/50ppb TBA/30ppbAC Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VOD3F13.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Jun 14 12:17:49 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	2.128	2.249	-5.7	83	0.00
82	T	tert-Butylbenzene	2.096	2.620	-25.0#	93	-0.02
83	T	1,2,4-Trimethylbenzene	2.405	2.786	-15.8	88	0.00
84	T	sec-Butylbenzene	3.230	4.187	-29.6#	96	-0.02
85	T	p-Isopropyltoluene	2.768	3.358	-21.3#	91	-0.02
86	T	1,3-Dichlorobenzene	1.682	1.810	-7.6	86	-0.02
87	T	1,4-Dichlorobenzene	1.576	1.735	-10.1	87	-0.02
88	T	n-Butylbenzene	2.684	3.308	-23.2#	95	-0.02
89	T	1,2-Dichlorobenzene	1.499	1.576	-5.1	85	-0.02
90	T	1,2-Dibromo-3-chloropropane	0.072	0.078	-8.3	81	-0.02
91	T	1,2,4-Trichlorobenzene	0.909	0.949	-4.4	79	-0.02
92	T	Hexachlorobutadiene	0.696	0.716	-2.9	85	-0.02
93	T	Naphthalene	1.119	1.104	1.3	72	-0.02
94	T	1,2,3-Trichlorobenzene	0.785	0.804	-2.4	78	0.00

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

2024

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG

VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 6.13.07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # AD3 -008

BATCH VOD3F136

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		RFE 443	BFB D3F37	2µl	NA	NA		12:10 pm
02		444	38					
03		445	VOD3F13 1	.03/.06 .15µl				8260,6ks/ket-A/TBA/ACN .3/.6/1.5/1.9 ppb
04		446	2	.05/.1 .25µl				.5/1/2.5/1.5
05		447	3	.1/.2/.5µl				1/2/5/3
06		448	4	.2/.4/1µl				2/4/10/6
07		449	5	.5/1/2.5µl				5/10/25/15
08		450	6	1/2/5µl				10/20/50/30
09		451	7	2/4/10µl				20/40/100/60
10		452	8	3/5/15µl				30/60/150/90
11		453	9	4/8/20µl				40/80/200/120
12		454	10	5/10/25µl				50/100/250/150 ppb
13		455	IS/SS	25µl				
14		456	VOD3F 38B					
15		457	IVOD3F13 01	1/2/5µl				10/20/50/30 ppb
16		458	02					
17		459	03	5µl				10ppb For 3 add ems
18		460	04					10:26 pm
19								
20								
21								
22								DN 6.14.07
23								
24								
25								

Instrument No.	D3
INITIAL CALIBRATION REFERENCE	
DATE	6.13.07
ICAL ID	VOD3F13

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC 8260	SVIC-11. 89.2	50/250
DCC ket-A/6ks	87.1 / 86.2	250 / 250
DCC 3 add	.1	250
BFB	87.3	50
IS/SURR. IS / SS	88.1 / 88.3	250 / 250
LCS 8260	81.3	50/250
LCS ket-A/6ks	87.2 / 86.3	250 / 250
LCS CLP	↓	50

SOLVENT	ID
METHANOL	
DATA FILE	07F13

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TOD3	

Comments:

Analyzed By: DN

Date Disposed: 6/14/07

Disposed By: DH

20025

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 6-21-07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # AD3 -008

BATCH CVOD3F1332

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RFE 752	PTFBD3F62	2ml				
02	753	63					10:25am
03	754	CVOD3F1331	1/2/5ml				
04	755	32					
05	756	VOD3F62L					
06	757	C					
07	758	D	25ml				
08	759	Q					
09	760	07F197-08	25ml	1	<2		
10	761	-09					
11	762	-10					
12	763	07F208-01R					
13	764	07F129-05					
14	765	07F222-01R					
15	766	-02R					
16	767	-03R					
17	768	-04R					
18	769	-05R					
19	770	-06T	5ml	5			
20	771	-07R	25ml	1			10:50pm
21							
22							
23							DN 6.22.07
24							

Instrument No.	D3
INITIAL CALIBRATION REFERENCE	
DATE	6.13.07
ICAL ID	VOD3F13

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	GMC .11.84.2	
DCC	.87.1	
DCC	.86.2	
BFB	.87.3	50/250
IS/SURR.	.88.2	
LCS	.87.3	
LCS	.87.2	
LCS	.86.3	

SOLVENT	ID
METHANOL	
DATA FILE	07F21

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TOD3	

Comments:

Analyzed By: DN

Date Disposed: 6/22/07

Disposed By: DN

2821