

LAB CHRONICLE

OrderID:	P5382	OrderDate:	12/23/2024 11:39:00 AM
Client:	Kleinfelder	Project:	Comegys School
Contact:	Mark Warchol	Location:	N31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5382-01	COMP-1	SOIL	VOCMS Group1	8260D	12/20/24		12/26/24	12/23/24
P5382-02	COMP-2	SOIL	VOCMS Group1	8260D	12/20/24		12/27/24	12/23/24
P5382-03	COMP-3	SOIL	VOCMS Group1	8260D	12/20/24		12/27/24	12/23/24



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Hit Summary Sheet
SW-846

SDG No.: P5382

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID:

0

Total Voc :

Total Concentration:

A
B
C
D
E
F
G



SAMPLE DATA

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/20/24
Project:	Comegys School	Date Received:	12/23/24
Client Sample ID:	COMP-1	SDG No.:	P5382
Lab Sample ID:	P5382-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	5.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020727.D	1		12/26/24 19:12	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	5.60	ug/Kg
71-43-2	Benzene	0.81	U	0.81	5.60	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.60	ug/Kg
108-88-3	Toluene	0.75	U	0.75	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.69	U	0.69	5.60	ug/Kg
1330-20-7	Total Xylenes	2.28	U	2.28	16.8	ug/Kg
98-82-8	Isopropylbenzene	0.75	U	0.75	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	65.6		50 - 163	131%	SPK: 50
1868-53-7	Dibromofluoromethane	58.3		54 - 147	117%	SPK: 50
2037-26-5	Toluene-d8	53.0		58 - 134	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		29 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97100	7.713			
540-36-3	1,4-Difluorobenzene	158000	8.615			
3114-55-4	Chlorobenzene-d5	138000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	58200	13.352			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/20/24
Project:	Comegys School	Date Received:	12/23/24
Client Sample ID:	COMP-2	SDG No.:	P5382
Lab Sample ID:	P5382-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.5
Sample Wt/Vol:	5.37	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020734.D	1		12/27/24 12:55	VY122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	5.60	ug/Kg
71-43-2	Benzene	0.81	U	0.81	5.60	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.60	ug/Kg
108-88-3	Toluene	0.76	U	0.76	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.60	ug/Kg
1330-20-7	Total Xylenes	2.29	U	2.29	16.9	ug/Kg
98-82-8	Isopropylbenzene	0.76	U	0.76	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.4		50 - 163	125%	SPK: 50
1868-53-7	Dibromofluoromethane	56.8		54 - 147	114%	SPK: 50
2037-26-5	Toluene-d8	52.9		58 - 134	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	91300	7.713			
540-36-3	1,4-Difluorobenzene	150000	8.622			
3114-55-4	Chlorobenzene-d5	126000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	45100	13.353			

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N = Presumptive Evidence of a Compound

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/20/24
Project:	Comegys School	Date Received:	12/23/24
Client Sample ID:	COMP-3	SDG No.:	P5382
Lab Sample ID:	P5382-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	5.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020735.D	1		12/27/24 13:18	VY122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	5.30	ug/Kg
71-43-2	Benzene	0.76	U	0.76	5.30	ug/Kg
79-01-6	Trichloroethene	0.80	U	0.80	5.30	ug/Kg
108-88-3	Toluene	0.71	U	0.71	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.66	U	0.66	5.30	ug/Kg
1330-20-7	Total Xylenes	2.14	U	2.14	15.9	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.4		50 - 163	123%	SPK: 50
1868-53-7	Dibromofluoromethane	57.3		54 - 147	115%	SPK: 50
2037-26-5	Toluene-d8	52.6		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		29 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	108000	7.713			
540-36-3	1,4-Difluorobenzene	174000	8.616			
3114-55-4	Chlorobenzene-d5	146000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	55900	13.352			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **P5382**

Client: **Kleinfelder**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5382-01	COMP-1	1,2-Dichloroethane-d4	50	65.6	131	50	163
		Dibromofluoromethane	50	58.3	117	54	147
		Toluene-d8	50	53.0	106	58	134
		4-Bromofluorobenzene	50	50.7	101	29	146
P5382-02	COMP-2	1,2-Dichloroethane-d4	50	62.4	125	50	163
		Dibromofluoromethane	50	56.8	114	54	147
		Toluene-d8	50	53.0	106	58	134
		4-Bromofluorobenzene	50	44.5	89	29	146
P5382-03	COMP-3	1,2-Dichloroethane-d4	50	61.4	123	50	163
		Dibromofluoromethane	50	57.3	115	54	147
		Toluene-d8	50	52.6	105	58	134
		4-Bromofluorobenzene	50	47.0	94	29	146
VY1226SBL01	VY1226SBL01	1,2-Dichloroethane-d4	50	64.7	129	50	163
		Dibromofluoromethane	50	57.6	115	54	147
		Toluene-d8	50	52.6	105	58	134
		4-Bromofluorobenzene	50	51.0	102	29	146
VY1226SBS01	VY1226SBS01	1,2-Dichloroethane-d4	50	55.0	110	50	163
		Dibromofluoromethane	50	52.1	104	54	147
		Toluene-d8	50	50.6	101	58	134
		4-Bromofluorobenzene	50	51.8	104	29	146
VY1227SBL01	VY1227SBL01	1,2-Dichloroethane-d4	50	63.5	127	50	163
		Dibromofluoromethane	50	57.1	114	54	147
		Toluene-d8	50	53.3	107	58	134
		4-Bromofluorobenzene	50	48.3	97	29	146
VY1227SBS01	VY1227SBS01	1,2-Dichloroethane-d4	50	54.8	110	50	163
		Dibromofluoromethane	50	54.3	109	54	147
		Toluene-d8	50	52.6	105	58	134
		4-Bromofluorobenzene	50	53.1	106	29	146
VY1227SBSD01	VY1227SBSD01	1,2-Dichloroethane-d4	50	55.9	112	50	163
		Dibromofluoromethane	50	53.6	107	54	147
		Toluene-d8	50	52.8	105	58	134
		4-Bromofluorobenzene	50	53.2	106	29	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY020715.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1226SBS01	cis-1,2-Dichloroethene	20	19.3	ug/Kg	97			82	123	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			80	126	
	Benzene	20	20.0	ug/Kg	100			84	121	
	Trichloroethene	20	19.4	ug/Kg	97			83	122	
	Toluene	20	20.3	ug/Kg	102			83	122	
	Ethyl Benzene	20	20.2	ug/Kg	101			82	124	
	m/p-Xylenes	40	41.6	ug/Kg	104			83	124	
	o-Xylene	20	20.7	ug/Kg	104			83	123	
	Isopropylbenzene	20	19.8	ug/Kg	99			82	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY020732.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1227SBS01	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102			82	123	
	1,1,1-Trichloroethane	20	19.3	ug/Kg	97			80	126	
	Benzene	20	20.7	ug/Kg	104			84	121	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	Toluene	20	20.4	ug/Kg	102			83	122	
	Ethyl Benzene	20	20.7	ug/Kg	104			82	124	
	m/p-Xylenes	40	41.9	ug/Kg	105			83	124	
	o-Xylene	20	20.6	ug/Kg	103			83	123	
	Isopropylbenzene	20	20.2	ug/Kg	101			82	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY020733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1227SBSD01	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	5		82	123	20
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	7		80	126	20
	Benzene	20	21.2	ug/Kg	106	2		84	121	20
	Trichloroethene	20	20.6	ug/Kg	103	3		83	122	20
	Toluene	20	21.1	ug/Kg	106	4		83	122	20
	Ethyl Benzene	20	21.1	ug/Kg	106	2		82	124	20
	m/p-Xylenes	40	42.4	ug/Kg	106	1		83	124	20
	o-Xylene	20	21.0	ug/Kg	105	2		83	123	20
	Isopropylbenzene	20	21.2	ug/Kg	106	5		82	124	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1226SBL01

Lab Name: CHEMTECH

Contract: POWE02

Lab Code: CHEM Case No.: P5382

SAS No.: P5382 SDG NO.: P5382

Lab File ID: VY020714.D

Lab Sample ID: VY1226SBL01

Date Analyzed: 12/26/2024

Time Analyzed: 13:56

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1226SBS01	VY1226SBS01	VY020715.D	12/26/2024
COMP-1	P5382-01	VY020727.D	12/26/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1227SBL01

Lab Name: CHEMTECH

Contract: POWE02

Lab Code: CHEM Case No.: P5382

SAS No.: P5382 SDG NO.: P5382

Lab File ID: VY020731.D

Lab Sample ID: VY1227SBL01

Date Analyzed: 12/27/2024

Time Analyzed: 11:24

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1227SBS01	VY1227SBS01	VY020732.D	12/27/2024
VY1227SBSD01	VY1227SBSD01	VY020733.D	12/27/2024
COMP-2	P5382-02	VY020734.D	12/27/2024
COMP-3	P5382-03	VY020735.D	12/27/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
Lab File ID: VY020705.D BFB Injection Date: 12/26/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:29
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	4.7 (5.3) 1
176	95.0 - 101.0% of mass 174	85.2 (95.8) 1
177	5.0 - 9.0% of mass 176	6 (7) 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
VSTDIC005	VSTDIC005	VY020706.D	12/26/2024	09:31
VSTDIC010	VSTDIC010	VY020707.D	12/26/2024	09:53
VSTDIC020	VSTDIC020	VY020708.D	12/26/2024	10:16
VSTDIC050	VSTDIC050	VY020709.D	12/26/2024	10:39
VSTDIC150	VSTDIC150	VY020710.D	12/26/2024	11:01
VSTDIC100	VSTDIC100	VY020711.D	12/26/2024	11:51
VY1226SBL01	VY1226SBL01	VY020714.D	12/26/2024	13:56
VY1226SBS01	VY1226SBS01	VY020715.D	12/26/2024	14:32
COMP-1	P5382-01	VY020727.D	12/26/2024	19:12

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
Lab File ID: VY020729.D BFB Injection Date: 12/27/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:05
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	93.8
175	5.0 - 9.0% of mass 174	8 (8.5) 1
176	95.0 - 101.0% of mass 174	90.5 (96.5) 1
177	5.0 - 9.0% of mass 176	6.1 (6.7) 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
VSTDCCC050	VSTDCCC050	VY020730.D	12/27/2024	10:20
VY1227SBL01	VY1227SBL01	VY020731.D	12/27/2024	11:24
VY1227SBS01	VY1227SBS01	VY020732.D	12/27/2024	12:03
VY1227SBSD01	VY1227SBSD01	VY020733.D	12/27/2024	12:26
COMP-2	P5382-02	VY020734.D	12/27/2024	12:55
COMP-3	P5382-03	VY020735.D	12/27/2024	13:18

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
Lab File ID: VY020709.D Date Analyzed: 12/26/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:39
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	95919	7.72	134605	8.62	116249	11.42
UPPER LIMIT	191838	8.22	269210	9.122	232498	11.92
LOWER LIMIT	47959.5	7.22	67302.5	8.122	58124.5	10.92
EPA SAMPLE NO.						
COMP-1	97104	7.71	158398	8.62	137952	11.42
VY1226SBL01	99549	7.72	157271	8.62	133794	11.42
VY1226SBS01	120044	7.72	165739	8.62	139363	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
 Lab File ID: VY020709.D Date Analyzed: 12/26/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:39
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	60351	13.353				
UPPER LIMIT	120702	13.853				
LOWER LIMIT	30175.5	12.853				
EPA SAMPLE NO.						
COMP-1	58207	13.35				
VY1226SBL01	56315	13.35				
VY1226SBS01	74040	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
Lab File ID: VY020730.D Date Analyzed: 12/27/2024
Instrument ID: MSVOA_Y Time Analyzed: 10:20
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	133845	7.72	187374	8.63	158006	11.43
UPPER LIMIT	267690	8.219	374748	9.128	316012	11.926
LOWER LIMIT	66922.5	7.219	93687	8.128	79003	10.926
EPA SAMPLE NO.						
COMP-2	91285	7.71	150432	8.62	125625	11.42
COMP-3	107608	7.71	174360	8.62	145577	11.42
VY1227SBL01	112620	7.72	180909	8.62	153112	11.42
VY1227SBS01	136570	7.72	194898	8.62	164208	11.43
VY1227SBSD01	129413	7.72	186352	8.62	158160	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382
 Lab File ID: VY020730.D Date Analyzed: 12/27/2024
 Instrument ID: MSVOA_Y Time Analyzed: 10:20
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	79722	13.358				
UPPER LIMIT	159444	13.858				
LOWER LIMIT	39861	12.858				
EPA SAMPLE NO.						
COMP-2	45053	13.35				
COMP-3	55916	13.35				
VY1227SBL01	62475	13.35				
VY1227SBS01	85032	13.36				
VY1227SBSD01	79149	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

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



QC SAMPLE DATA

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Comegys School	Date Received:	
Client Sample ID:	VY1226SBL01	SDG No.:	P5382
Lab Sample ID:	VY1226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020714.D	1		12/26/24 13:56	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	64.7		50 - 163	129%	SPK: 50
1868-53-7	Dibromofluoromethane	57.6		54 - 147	115%	SPK: 50
2037-26-5	Toluene-d8	52.6		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		29 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	99500	7.719			
540-36-3	1,4-Difluorobenzene	157000	8.622			
3114-55-4	Chlorobenzene-d5	134000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	56300	13.352			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Comegys School	Date Received:	
Client Sample ID:	VY1227SBL01	SDG No.:	P5382
Lab Sample ID:	VY1227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020731.D	1		12/27/24 11:24	VY122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.5		50 - 163	127%	SPK: 50
1868-53-7	Dibromofluoromethane	57.1		54 - 147	114%	SPK: 50
2037-26-5	Toluene-d8	53.3		58 - 134	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		29 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	113000	7.719			
540-36-3	1,4-Difluorobenzene	181000	8.622			
3114-55-4	Chlorobenzene-d5	153000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	62500	13.352			

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MDL = Method Detection Limit

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Comegys School	Date Received:	
Client Sample ID:	VY1226SBS01	SDG No.:	P5382
Lab Sample ID:	VY1226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020715.D	1		12/26/24 14:32	VY122624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.3		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
71-43-2	Benzene	20.0		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
108-88-3	Toluene	20.3		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	62.3		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		50 - 163	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		54 - 147	104%	SPK: 50
2037-26-5	Toluene-d8	50.6		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		29 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	120000	7.72			
540-36-3	1,4-Difluorobenzene	166000	8.622			
3114-55-4	Chlorobenzene-d5	139000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	74000	13.353			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder		Date Collected:	
Project:	Comegys School		Date Received:	
Client Sample ID:	VY1227SBS01		SDG No.:	P5382
Lab Sample ID:	VY1227SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020732.D	1		12/27/24 12:03	VY122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	20.4		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.3		0.78	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.75	5.00	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	62.5		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.8		50 - 163	110%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		54 - 147	109%	SPK: 50
2037-26-5	Toluene-d8	52.7		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		29 - 146	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	137000	7.719			
540-36-3	1,4-Difluorobenzene	195000	8.622			
3114-55-4	Chlorobenzene-d5	164000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	85000	13.359			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Kleinfelder		Date Collected:	
Project:	Comegys School		Date Received:	
Client Sample ID:	VY1227SBSD01		SDG No.:	P5382
Lab Sample ID:	VY1227SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020733.D	1		12/27/24 12:26	VY122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	21.4		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.78	5.00	ug/Kg
71-43-2	Benzene	21.2		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.75	5.00	ug/Kg
108-88-3	Toluene	21.1		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.1		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	63.4		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	21.2		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		50 - 163	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		54 - 147	107%	SPK: 50
2037-26-5	Toluene-d8	52.7		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		29 - 146	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	129000	7.72			
540-36-3	1,4-Difluorobenzene	186000	8.622			
3114-55-4	Chlorobenzene-d5	158000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	79100	13.353			

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MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>POWE02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5382</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P5382</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P5382</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>12/26/2024</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>09:31</u>
			<u>11:51</u>

LAB FILE ID:		RRF005 = VY020706.D		RRF010 = VY020707.D		RRF020 = VY020708.D		
		RRF050 = VY020709.D		RRF150 = VY020710.D		RRF100 = VY020711.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD
cis-1,2-Dichloroethene	0.419	0.460	0.426	0.462	0.432	0.447	0.441	4.1
1,1,1-Trichloroethane	0.814	0.897	0.826	0.859	0.816	0.831	0.840	3.8
Benzene	0.969	1.104	1.040	1.089	1.041	1.083	1.054	4.7
Trichloroethene	0.288	0.336	0.315	0.324	0.309	0.317	0.315	5.1
Toluene	0.654	0.751	0.722	0.745	0.723	0.741	0.723	4.9
Ethyl Benzene	1.540	1.810	1.715	1.778	1.682	1.743	1.711	5.6
m/p-Xylenes	0.590	0.691	0.649	0.675	0.643	0.667	0.653	5.4
o-Xylene	0.552	0.666	0.639	0.650	0.603	0.632	0.624	6.6
Isopropylbenzene	3.123	3.801	3.508	3.476	3.402	3.474	3.464	6.3
1,2-Dichloroethane-d4	0.335	0.402	0.313	0.516	0.433	0.457	0.410	18.7
Dibromofluoromethane	0.235	0.274	0.232	0.319	0.284	0.307	0.275	13.1
Toluene-d8	0.733	0.883	0.733	1.227	1.093	1.158	0.971	22.4
4-Bromofluorobenzene	0.303	0.378	0.319	0.426	0.373	0.397	0.366	12.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG No.: P5382

Instrument ID: MSVOA_Y Calibration Date/Time: 12/27/2024 10:20

Lab File ID: VY020730.D Init. Calib. Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:31 11:51

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.441	0.454		2.95	20
1,1,1-Trichloroethane	0.840	0.807		-3.93	20
Benzene	1.054	1.087		3.13	20
Trichloroethene	0.315	0.315		0	20
Toluene	0.723	0.739		2.21	20
Ethyl Benzene	1.711	1.764		3.04	20
m/p-Xylenes	0.653	0.667		2.14	20
o-Xylene	0.624	0.636		1.92	20
Isopropylbenzene	3.464	3.535		2.05	20
1,2-Dichloroethane-d4	0.410	0.430		4.88	20
Dibromofluoromethane	0.275	0.292		6.18	20
Toluene-d8	0.971	1.153		18.74	20
4-Bromofluorobenzene	0.366	0.385		5.19	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.