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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/19/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/18/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	4.74 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
VY020660.D	1		12/19/24 17:09	VY121924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.73	U	0.73	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	6.00	ug/Kg
71-43-2	Benzene	0.86	U	0.86	6.00	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	6.00	ug/Kg
108-88-3	Toluene	0.80	U	0.80	6.00	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	6.00	ug/Kg
1330-20-7	Total Xylenes	2.43	U	2.43	17.9	ug/Kg
98-82-8	Isopropylbenzene	0.80	U	0.80	6.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	43.5		54 - 147	87%	SPK: 50
2037-26-5	Toluene-d8	49.5		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	109000	7.713			
540-36-3	1,4-Difluorobenzene	185000	8.616			
3114-55-4	Chlorobenzene-d5	172000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	81200	13.347			

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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.9
Sample Wt/Vol:	3.63 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
VY020629.D	1		12/18/24 12:33	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	8.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.40	U	1.40	8.70	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.70	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.70	ug/Kg
108-88-3	Toluene	1.20	U	1.20	8.70	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.70	ug/Kg
1330-20-7	Total Xylenes	3.60	U	3.60	26.2	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	8.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	39.5		54 - 147	79%	SPK: 50
2037-26-5	Toluene-d8	48.4		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.9		29 - 146	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	323000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.347			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.9
Sample Wt/Vol:	3.92 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
VY020630.D	1		12/18/24 12:57	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.87	U	0.87	7.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	7.10	ug/Kg
71-43-2	Benzene	1.00	U	1.00	7.10	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	7.10	ug/Kg
108-88-3	Toluene	0.95	U	0.95	7.10	ug/Kg
100-41-4	Ethyl Benzene	0.88	U	0.88	7.10	ug/Kg
1330-20-7	Total Xylenes	2.89	U	2.89	21.3	ug/Kg
98-82-8	Isopropylbenzene	0.95	U	0.95	7.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		50 - 163	107%	SPK: 50
1868-53-7	Dibromofluoromethane	45.0		54 - 147	90%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	7.707			
540-36-3	1,4-Difluorobenzene	286000	8.616			
3114-55-4	Chlorobenzene-d5	240000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	94500	13.346			

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MDL = Method Detection Limit
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N = Presumptive Evidence of a Compound
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A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5277-01	COMP-1A	1,2-Dichloroethane-d4	50	48.3	97	50	163
		Dibromofluoromethane	50	43.5	87	54	147
		Toluene-d8	50	49.5	99	58	134
		4-Bromofluorobenzene	50	44.6	89	29	146
P5277-02	COMP-2A	1,2-Dichloroethane-d4	50	53.8	108	50	163
		Dibromofluoromethane	50	39.5	79	54	147
		Toluene-d8	50	48.4	97	58	134
		4-Bromofluorobenzene	50	36.9	74	29	146
P5277-03	COMP-3A	1,2-Dichloroethane-d4	50	53.6	107	50	163
		Dibromofluoromethane	50	45.0	90	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	37.5	75	29	146
VY1218SBL01	VY1218SBL01	1,2-Dichloroethane-d4	50	49.7	99	50	163
		Dibromofluoromethane	50	44.7	89	54	147
		Toluene-d8	50	48.4	97	58	134
		4-Bromofluorobenzene	50	37.4	75	29	146
VY1218SBS01	VY1218SBS01	1,2-Dichloroethane-d4	50	48.4	97	50	163
		Dibromofluoromethane	50	48.3	97	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	46.3	93	29	146
VY1218SBSD01	VY1218SBSD01	1,2-Dichloroethane-d4	50	51.7	103	50	163
		Dibromofluoromethane	50	50.1	100	54	147
		Toluene-d8	50	51.5	103	58	134
		4-Bromofluorobenzene	50	48.3	97	29	146
VY1219SBL01	VY1219SBL01	1,2-Dichloroethane-d4	50	44.5	89	50	163
		Dibromofluoromethane	50	45.8	92	54	147
		Toluene-d8	50	43.8	88	58	134
		4-Bromofluorobenzene	50	40.3	81	29	146
VY1219SBS01	VY1219SBS01	1,2-Dichloroethane-d4	50	54.5	109	50	163
		Dibromofluoromethane	50	55.5	111	54	147
		Toluene-d8	50	55.5	111	58	134
		4-Bromofluorobenzene	50	53.5	107	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1218SBS01	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			82	123	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			80	126	
	Benzene	20	19.5	ug/Kg	98			84	121	
	Trichloroethene	20	19.4	ug/Kg	97			83	122	
	Toluene	20	19.3	ug/Kg	97			83	122	
	Ethyl Benzene	20	19.3	ug/Kg	97			82	124	
	m/p-Xylenes	40	38.3	ug/Kg	96			83	124	
	o-Xylene	20	19.1	ug/Kg	96			83	123	
	Isopropylbenzene	20	19.1	ug/Kg	96			82	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1218SBSD01	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	8		82	123	20
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	7		80	126	20
	Benzene	20	20.7	ug/Kg	104	6		84	121	20
	Trichloroethene	20	20.7	ug/Kg	104	7		83	122	20
	Toluene	20	20.4	ug/Kg	102	5		83	122	20
	Ethyl Benzene	20	20.3	ug/Kg	102	5		82	124	20
	m/p-Xylenes	40	40.6	ug/Kg	102	6		83	124	20
	o-Xylene	20	20.6	ug/Kg	103	7		83	123	20
	Isopropylbenzene	20	20.1	ug/Kg	101	5		82	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020647.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1219SBS01	cis-1,2-Dichloroethene	20	21.3	ug/Kg	106			82	123	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Benzene	20	21.4	ug/Kg	107			84	121	
	Trichloroethene	20	21.4	ug/Kg	107			83	122	
	Toluene	20	21.5	ug/Kg	108			83	122	
	Ethyl Benzene	20	21.2	ug/Kg	106			82	124	
	m/p-Xylenes	40	42.9	ug/Kg	107			83	124	
	o-Xylene	20	21.7	ug/Kg	109			83	123	
	Isopropylbenzene	20	21.1	ug/Kg	106			82	124	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1218SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020625.D Lab Sample ID: VY1218SBL01

Date Analyzed: 12/18/2024 Time Analyzed: 10:52

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
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024
COMP-2A	P5277-02	VY020629.D	12/18/2024
COMP-3A	P5277-03	VY020630.D	12/18/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1219SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020646.D Lab Sample ID: VY1219SBL01

Date Analyzed: 12/19/2024 Time Analyzed: 11:07

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
VY1219SBS01	VY1219SBS01	VY020647.D	12/19/2024
COMP-1A	P5277-01	VY020660.D	12/19/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

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	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (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
VSTDICC010	VSTDICC010	VY020613.D	12/17/2024	10:01
VSTDICC020	VSTDICC020	VY020614.D	12/17/2024	10:23
VSTDICCC050	VSTDICCC050	VY020615.D	12/17/2024	10:51
VSTDICC100	VSTDICC100	VY020616.D	12/17/2024	11:14
VSTDICC150	VSTDICC150	VY020617.D	12/17/2024	11:37
VSTDICC005	VSTDICC005	VY020619.D	12/17/2024	14:51

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020622.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:46

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	19.4
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	76.1 (97) 1
177	5.0 - 9.0% of mass 176	5.1 (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	VY020624.D	12/18/2024	10:06
VY1218SBL01	VY1218SBL01	VY020625.D	12/18/2024	10:52
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024	11:19
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024	11:42
COMP-2A	P5277-02	VY020629.D	12/18/2024	12:33
COMP-3A	P5277-03	VY020630.D	12/18/2024	12:57

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020644.D BFB Injection Date: 12/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:13

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	18.1
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	78.7
175	5.0 - 9.0% of mass 174	6 (7.6) 1
176	95.0 - 101.0% of mass 174	75.6 (96.2) 1
177	5.0 - 9.0% of mass 176	5.2 (6.9) 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	VY020645.D	12/19/2024	09:43
VY1219SBL01	VY1219SBL01	VY020646.D	12/19/2024	11:07
VY1219SBS01	VY1219SBS01	VY020647.D	12/19/2024	11:53
COMP-1A	P5277-01	VY020660.D	12/19/2024	17:09

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

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	168319	7.71	264221	8.62	226779	11.42
UPPER LIMIT	336638	8.213	528442	9.116	453558	11.92
LOWER LIMIT	84159.5	7.213	132111	8.116	113390	10.92
EPA SAMPLE NO.						
COMP-2A	167185	7.71	323384	8.62	272093	11.41
COMP-3A	165087	7.71	286183	8.62	239715	11.41
VY1218SBL01	201389	7.71	355898	8.62	296016	11.42
VY1218SBS01	167281	7.71	257615	8.62	226665	11.41
VY1218SBSD01	153098	7.71	244096	8.62	214944	11.41

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.

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	124266	13.347				
UPPER LIMIT	248532	13.847				
LOWER LIMIT	62133	12.847				
EPA SAMPLE NO.						
COMP-2A	105985	13.35				
COMP-3A	94502	13.35				
VY1218SBL01	114022	13.35				
VY1218SBS01	127451	13.35				
VY1218SBSD01	120747	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

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	206000	7.71	308825	8.62	266753	11.41
UPPER LIMIT	412000	8.207	617650	9.116	533506	11.914
LOWER LIMIT	103000	7.207	154413	8.116	133377	10.914
EPA SAMPLE NO.						
COMP-1A	108629	7.71	184812	8.62	172200	11.41
VY1219SBL01	204045	7.71	318952	8.62	271132	11.42
VY1219SBS01	184895	7.71	283194	8.62	247561	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	146371	13.347				
UPPER LIMIT	292742	13.847				
LOWER LIMIT	73185.5	12.847				
EPA SAMPLE NO.						
COMP-1A	81207	13.35				
VY1219SBL01	145317	13.35				
VY1219SBS01	139236	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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5277
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

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	49.7		50 - 163	99%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		54 - 147	89%	SPK: 50
2037-26-5	Toluene-d8	48.4		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.4		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	356000	8.616			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	114000	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

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1219SBL01	SDG No.:	P5277
Lab Sample ID:	VY1219SBL01	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
VY020646.D	1		12/19/24 11:07	VY121924

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	44.5		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		54 - 147	92%	SPK: 50
2037-26-5	Toluene-d8	43.8		58 - 134	88%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		29 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	7.707			
540-36-3	1,4-Difluorobenzene	319000	8.616			
3114-55-4	Chlorobenzene-d5	271000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.353			

U = Not Detected
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5277
Lab Sample ID:	VY1218SBS01	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
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.2		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	19.5		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	57.4		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		29 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	258000	8.616			
3114-55-4	Chlorobenzene-d5	227000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.347			

U = Not Detected
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MDL = Method Detection Limit
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1219SBS01	SDG No.:	P5277
Lab Sample ID:	VY1219SBS01	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
VY020647.D	1		12/19/24 11:53	VY121924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	21.3		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.78	5.00	ug/Kg
71-43-2	Benzene	21.4		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	21.4		0.75	5.00	ug/Kg
108-88-3	Toluene	21.5		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	64.6		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.5		50 - 163	109%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		54 - 147	111%	SPK: 50
2037-26-5	Toluene-d8	55.6		58 - 134	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		29 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.707			
540-36-3	1,4-Difluorobenzene	283000	8.615			
3114-55-4	Chlorobenzene-d5	248000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	139000	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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5277
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.78	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	61.2		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		50 - 163	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	51.5		58 - 134	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		29 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	7.707			
540-36-3	1,4-Difluorobenzene	244000	8.616			
3114-55-4	Chlorobenzene-d5	215000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.347			

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

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1
Isopropylbenzene	4.636	4.451	4.356	4.284	4.051	4.401	4.363	4.4
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9

* 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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.809	0.885		9.39	20
1,1,1-Trichloroethane	1.200	1.333		11.08	20
Benzene	1.883	2.047		8.71	20
Trichloroethene	0.463	0.501		8.21	20
Toluene	1.170	1.284		9.74	20
Ethyl Benzene	2.579	2.891		12.1	20
m/p-Xylenes	0.959	1.067		11.26	20
o-Xylene	0.895	1.001		11.84	20
Isopropylbenzene	4.363	4.981		14.16	20
1,2-Dichloroethane-d4	0.548	0.514		-6.2	20
Dibromofluoromethane	0.352	0.333		-5.4	20
Toluene-d8	1.233	1.198		-2.84	20
4-Bromofluorobenzene	0.482	0.430		-10.79	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/19/2024 09:43

Lab File ID: VY020645.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.809	0.896		10.75	20
1,1,1-Trichloroethane	1.200	1.332		11	20
Benzene	1.883	2.108		11.95	20
Trichloroethene	0.463	0.532		14.9	20
Toluene	1.170	1.319		12.73	20
Ethyl Benzene	2.579	2.931		13.65	20
m/p-Xylenes	0.959	1.097		14.39	20
o-Xylene	0.895	1.028		14.86	20
Isopropylbenzene	4.363	5.035		15.4	20
1,2-Dichloroethane-d4	0.548	0.573		4.56	20
Dibromofluoromethane	0.352	0.398		13.07	20
Toluene-d8	1.233	1.381		12	20
4-Bromofluorobenzene	0.482	0.516		7.05	20

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