

LAB CHRONICLE

OrderID:	P5018	OrderDate:	11/26/2024 12:20:00 PM
Client:	New York City DEP of Environmental Protection/BWS	Project:	Industrial Wastewater Discharge Permit - Fall 2024
Contact:	Nicholas Prokopowicz	Location:	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5018-01	14B-1	Water	VOCMS Group1	624.1	11/26/24		11/27/24	11/26/24
P5018-02	14B-2	Water	VOCMS Group1	624.1	11/26/24		11/27/24	11/26/24
P5018-03	14B-3	Water	VOCMS Group1	624.1	11/26/24		11/27/24	11/26/24
P5018-04	14B-4	Water	VOCMS Group1	624.1	11/26/24		11/27/24	11/26/24



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: P5018

Client: New York City DEP of Environmental Protection/BW

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:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-1	SDG No.:	P5018
Lab Sample ID:	P5018-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085056.D	5		11/27/24 13:56	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-1	SDG No.:	P5018
Lab Sample ID:	P5018-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085056.D	5		11/27/24 13:56	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.9		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.8		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.9		63 - 112	83%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	33400	7.806			
540-36-3	1,4-Difluorobenzene	177000	9.1			
3114-55-4	Chlorobenzene-d5	151000	11.865			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-1	SDG No.:	P5018
Lab Sample ID:	P5018-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
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
VN085056.D	5		11/27/24 13:56	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-2	SDG No.:	P5018
Lab Sample ID:	P5018-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085057.D	5		11/27/24 14:20	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-2	SDG No.:	P5018
Lab Sample ID:	P5018-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085057.D	5		11/27/24 14:20	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.1		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.9		63 - 112	80%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	21400	7.806			
540-36-3	1,4-Difluorobenzene	110000	9.094			
3114-55-4	Chlorobenzene-d5	94600	11.865			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-2	SDG No.:	P5018
Lab Sample ID:	P5018-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
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
VN085057.D	5		11/27/24 14:20	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	New York City DEP of Environmental Protection/BWS		Date Collected:	11/26/24	
Project:	Industrial Wastewater Discharge Permit - Fall 2024		Date Received:	11/26/24	
Client Sample ID:	14B-3		SDG No.:	P5018	
Lab Sample ID:	P5018-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	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
VN085058.D	5		11/27/24 14:44	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-3	SDG No.:	P5018
Lab Sample ID:	P5018-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085058.D	5		11/27/24 14:44	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.6		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.9		63 - 112	80%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	24400	7.806			
540-36-3	1,4-Difluorobenzene	125000	9.1			
3114-55-4	Chlorobenzene-d5	108000	11.865			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-3	SDG No.:	P5018
Lab Sample ID:	P5018-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085058.D	5		11/27/24 14:44	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-4	SDG No.:	P5018
Lab Sample ID:	P5018-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085059.D	5		11/27/24 15:07	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	6.10	U	6.10	25.0	ug/L
74-87-3	Chloromethane	5.90	U	5.90	25.0	ug/L
75-01-4	Vinyl Chloride	6.10	U	6.10	25.0	ug/L
74-83-9	Bromomethane	6.90	U	6.90	25.0	ug/L
75-00-3	Chloroethane	14.6	U	14.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	5.10	U	5.10	25.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	5.30	25.0	ug/L
75-35-4	1,1-Dichloroethene	5.30	U	5.30	25.0	ug/L
67-64-1	Acetone	24.6	U	24.6	130	ug/L
75-15-0	Carbon Disulfide	4.70	U	4.70	25.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	4.20	U	4.20	25.0	ug/L
79-20-9	Methyl Acetate	6.10	U	6.10	25.0	ug/L
75-09-2	Methylene Chloride	6.10	U	6.10	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.80	U	4.80	25.0	ug/L
75-34-3	1,1-Dichloroethane	4.10	U	4.10	25.0	ug/L
110-82-7	Cyclohexane	5.20	U	5.20	25.0	ug/L
78-93-3	2-Butanone	17.8	U	17.8	130	ug/L
56-23-5	Carbon Tetrachloride	4.60	U	4.60	25.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4.50	U	4.50	25.0	ug/L
67-66-3	Chloroform	3.60	U	3.60	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	U	4.00	25.0	ug/L
108-87-2	Methylcyclohexane	4.50	U	4.50	25.0	ug/L
71-43-2	Benzene	3.50	U	3.50	25.0	ug/L
107-06-2	1,2-Dichloroethane	3.80	U	3.80	25.0	ug/L
79-01-6	Trichloroethene	3.90	U	3.90	25.0	ug/L
78-87-5	1,2-Dichloropropane	3.30	U	3.30	25.0	ug/L
75-27-4	Bromodichloromethane	4.10	U	4.10	25.0	ug/L
108-10-1	4-Methyl-2-Pentanone	20.8	U	20.8	130	ug/L
108-88-3	Toluene	3.60	U	3.60	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	4.00	U	4.00	25.0	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-4	SDG No.:	P5018
Lab Sample ID:	P5018-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085059.D	5		11/27/24 15:07	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4.20	U	4.20	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	3.40	U	3.40	25.0	ug/L
591-78-6	2-Hexanone	19.7	U	19.7	130	ug/L
124-48-1	Dibromochloromethane	3.60	U	3.60	25.0	ug/L
106-93-4	1,2-Dibromoethane	3.90	U	3.90	25.0	ug/L
127-18-4	Tetrachloroethene	4.70	U	4.70	25.0	ug/L
108-90-7	Chlorobenzene	3.40	U	3.40	25.0	ug/L
100-41-4	Ethyl Benzene	3.70	U	3.70	25.0	ug/L
179601-23-1	m/p-Xylenes	8.60	U	8.60	50.0	ug/L
95-47-6	o-Xylene	4.10	U	4.10	25.0	ug/L
100-42-5	Styrene	4.00	U	4.00	25.0	ug/L
75-25-2	Bromoform	5.00	U	5.00	25.0	ug/L
98-82-8	Isopropylbenzene	4.30	U	4.30	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	3.00	U	3.00	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.70	U	3.70	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.80	U	4.80	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	4.40	U	4.40	25.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	4.60	U	4.60	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.50	U	5.50	25.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.10	U	7.10	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.1		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	28.3		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.3		63 - 112	78%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	24400	7.806			
540-36-3	1,4-Difluorobenzene	128000	9.094			
3114-55-4	Chlorobenzene-d5	110000	11.865			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	11/26/24
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	11/26/24
Client Sample ID:	14B-4	SDG No.:	P5018
Lab Sample ID:	P5018-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085059.D	5		11/27/24 15:07	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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



QC SUMMARY

Surrogate Summary

SDG No.: **P5018**

Client: **New York City DEP of Environmental Protection/BWS**

Analytical Method: **SW624.1**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5018-01	14B-1	1,2-Dichloroethane-d4	30	29.9	100	91	110
		Toluene-d8	30	28.8	96	91	112
		4-Bromofluorobenzene	30	24.9	83	63	112
P5018-02	14B-2	1,2-Dichloroethane-d4	30	29.8	99	91	110
		Toluene-d8	30	28.1	94	91	112
		4-Bromofluorobenzene	30	23.9	80	63	112
P5018-03	14B-3	1,2-Dichloroethane-d4	30	30.6	102	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	23.9	80	63	112
P5018-04	14B-4	1,2-Dichloroethane-d4	30	31.1	104	91	110
		Toluene-d8	30	28.3	94	91	112
		4-Bromofluorobenzene	30	23.3	78	63	112
VN1127WBL01	VN1127WBL01	1,2-Dichloroethane-d4	30	31.1	104	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	24.5	82	63	112
VN1127WBS01	VN1127WBS01	1,2-Dichloroethane-d4	30	30.4	101	91	110
		Toluene-d8	30	29.6	99	91	112
		4-Bromofluorobenzene	30	29.4	98	63	112
VN1127WBSD0	VN1127WBSD01	1,2-Dichloroethane-d4	30	30.5	102	91	110
		Toluene-d8	30	29.9	100	91	112
		4-Bromofluorobenzene	30	28.3	94	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5018

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1

Datafile : VN085053.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1127WBS01	Dichlorodifluoromethane	20	19.9	ug/L	100			72	118	
	Chloromethane	20	17.4	ug/L	87			1	205	
	Vinyl Chloride	20	18.6	ug/L	93			5	195	
	Bromomethane	20	20.1	ug/L	101			15	185	
	Chloroethane	20	18.6	ug/L	93			40	160	
	Trichlorofluoromethane	20	20.0	ug/L	100			50	150	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100			64	127	
	1,1-Dichloroethene	20	18.7	ug/L	94			50	150	
	Acetone	100	95.8	ug/L	96			41	148	
	Carbon disulfide	20	17.3	ug/L	86			76	107	
	Methyl tert-butyl Ether	20	18.6	ug/L	93			82	114	
	Methyl Acetate	20	15.8	ug/L	79			63	139	
	Methylene Chloride	20	17.9	ug/L	90			60	140	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			70	130	
	1,1-Dichloroethane	20	18.9	ug/L	95			70	130	
	Cyclohexane	20	18.7	ug/L	94			79	113	
	2-Butanone	100	88.6	ug/L	89			69	129	
	Carbon Tetrachloride	20	19.4	ug/L	97			70	130	
	cis-1,2-Dichloroethene	20	18.6	ug/L	93			81	112	
	Chloroform	20	19.2	ug/L	96			70	135	
	1,1,1-Trichloroethane	20	19.5	ug/L	98			70	130	
	Methylcyclohexane	20	18.6	ug/L	93			79	112	
	Benzene	20	17.9	ug/L	90			65	135	
	1,2-Dichloroethane	20	19.0	ug/L	95			70	130	
	Trichloroethene	20	18.7	ug/L	94			65	135	
	1,2-Dichloropropane	20	18.4	ug/L	92			35	165	
	Bromodichloromethane	20	18.2	ug/L	91			65	135	
	4-Methyl-2-Pentanone	100	86.4	ug/L	86			73	131	
	Toluene	20	18.5	ug/L	93			70	130	
	t-1,3-Dichloropropene	20	18.0	ug/L	90			50	150	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			25	175	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70	130	
	2-Hexanone	100	88.9	ug/L	89			72	128	
	Dibromochloromethane	20	19.1	ug/L	96			70	135	
	1,2-Dibromoethane	20	18.3	ug/L	92			86	114	
	Tetrachloroethene	20	19.4	ug/L	97			70	130	
	Chlorobenzene	20	18.9	ug/L	95			65	135	
	Ethyl Benzene	20	18.1	ug/L	91			60	140	
	m/p-Xylenes	40	37.0	ug/L	93			87	111	
	o-Xylene	20	17.9	ug/L	90			87	111	
	Styrene	20	18.4	ug/L	92			85	106	
	Bromoform	20	17.9	ug/L	90			70	130	
	Isopropylbenzene	20	18.8	ug/L	94			86	112	
	1,1,2,2-Tetrachloroethane	20	17.8	ug/L	89			60	140	
	1,3,5-Trimethylbenzene	20	19.2	ug/L	96			66	139	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			70	130	
	1,4-Dichlorobenzene	20	18.6	ug/L	93			65	135	
	1,2-Dichlorobenzene	20	18.4	ug/L	92			65	135	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5018

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1

Datafile : VN085053.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1127WBS01	1,2-Dibromo-3-Chloropropane	20	18.6	ug/L	93			69	122	
	1,2,4-Trichlorobenzene	20	19.0	ug/L	95			61	118	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			38	159	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5018

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085054.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1127WBSD01	Dichlorodifluoromethane	20	21.1	ug/L	106	6		72	118	20
	Chloromethane	20	18.0	ug/L	90	3		1	205	20
	Vinyl Chloride	20	20.0	ug/L	100	7		5	195	20
	Bromomethane	20	22.2	ug/L	111	9		15	185	20
	Chloroethane	20	20.3	ug/L	102	9		40	160	20
	Trichlorofluoromethane	20	22.0	ug/L	110	10		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	22.5	ug/L	113	12		64	127	20
	1,1-Dichloroethene	20	20.4	ug/L	102	8		50	150	20
	Acetone	100	110	ug/L	110	14		41	148	20
	Carbon disulfide	20	18.8	ug/L	94	9		76	107	20
	Methyl tert-butyl Ether	20	22.0	ug/L	110	17		82	114	20
	Methyl Acetate	20	18.4	ug/L	92	15		63	139	20
	Methylene Chloride	20	20.3	ug/L	102	13		60	140	20
	trans-1,2-Dichloroethene	20	20.1	ug/L	101	7		70	130	20
	1,1-Dichloroethane	20	21.0	ug/L	105	10		70	130	20
	Cyclohexane	20	20.3	ug/L	102	8		79	113	20
	2-Butanone	100	100	ug/L	100	12		69	129	20
	Carbon Tetrachloride	20	21.6	ug/L	108	11		70	130	20
	cis-1,2-Dichloroethene	20	20.6	ug/L	103	10		81	112	20
	Chloroform	20	20.8	ug/L	104	8		70	135	20
	1,1,1-Trichloroethane	20	21.1	ug/L	106	8		70	130	20
	Methylcyclohexane	20	21.0	ug/L	105	12		79	112	20
	Benzene	20	20.8	ug/L	104	14		65	135	20
	1,2-Dichloroethane	20	22.0	ug/L	110	15		70	130	20
	Trichloroethene	20	21.0	ug/L	105	11		65	135	20
	1,2-Dichloropropane	20	20.2	ug/L	101	9		35	165	20
	Bromodichloromethane	20	21.2	ug/L	106	15		65	135	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	15		73	131	20
	Toluene	20	20.9	ug/L	104	11		70	130	20
	t-1,3-Dichloropropene	20	20.7	ug/L	104	14		50	150	20
	cis-1,3-Dichloropropene	20	21.3	ug/L	106	13		25	175	20
	1,1,2-Trichloroethane	20	21.1	ug/L	106	12		70	130	20
	2-Hexanone	100	100	ug/L	100	12		72	128	20
	Dibromochloromethane	20	21.6	ug/L	108	12		70	135	20
	1,2-Dibromoethane	20	20.4	ug/L	102	10		86	114	20
	Tetrachloroethene	20	22.4	ug/L	112	14		70	130	20
	Chlorobenzene	20	20.9	ug/L	104	9		65	135	20
	Ethyl Benzene	20	20.2	ug/L	101	10		60	140	20
	m/p-Xylenes	40	41.4	ug/L	104	11		87	111	20
	o-Xylene	20	21.3	ug/L	106	16		87	111	20
	Styrene	20	20.8	ug/L	104	12		85	106	20
	Bromoform	20	21.3	ug/L	106	16		70	130	20
	Isopropylbenzene	20	20.5	ug/L	103	9		86	112	20
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103	15		60	140	20
	1,3,5-Trimethylbenzene	20	20.7	ug/L	104	8		66	139	20
	1,3-Dichlorobenzene	20	20.9	ug/L	104	8		70	130	20
	1,4-Dichlorobenzene	20	20.7	ug/L	104	11		65	135	20
	1,2-Dichlorobenzene	20	20.5	ug/L	103	11		65	135	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5018

Client: New York City DEP of Environmental Prot

Analytical Method: SW624.1 **Datafile :** VN085054.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1127WBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/L	104	11		69	122	20
	1,2,4-Trichlorobenzene	20	21.8	ug/L	109	14		61	118	20
	1,2,3-Trichlorobenzene	20	21.8	ug/L	109	14		38	159	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1127WBL01

Lab Name: CHEMTECH

Contract: NEWY17

Lab Code: CHEM Case No.: P5018

SAS No.: P5018 SDG NO.: P5018

Lab File ID: VN085055.D

Lab Sample ID: VN1127WBL01

Date Analyzed: 11/27/2024

Time Analyzed: 13:19

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1127WBS01	VN1127WBS01	VN085053.D	11/27/2024
VN1127WBSD01	VN1127WBSD01	VN085054.D	11/27/2024
14B-1	P5018-01	VN085056.D	11/27/2024
14B-2	P5018-02	VN085057.D	11/27/2024
14B-3	P5018-03	VN085058.D	11/27/2024
14B-4	P5018-04	VN085059.D	11/27/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: NEWY17
Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG NO.: P5018
Lab File ID: VN084612.D BFB Injection Date: 10/31/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:56
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	72.1 (97.5) 1
177	5.0 - 9.0% of mass 176	4.7 (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
VSTDIC005	VSTDIC005	VN084613.D	10/31/2024	12:08
VSTDIC020	VSTDIC020	VN084614.D	10/31/2024	12:32
VSTDIC050	VSTDIC050	VN084615.D	10/31/2024	12:56
VSTDIC100	VSTDIC100	VN084616.D	10/31/2024	13:20
VSTDIC150	VSTDIC150	VN084617.D	10/31/2024	13:44

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: NEWY17
Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG NO.: P5018
Lab File ID: VN085051.D BFB Injection Date: 11/27/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:30
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	50.3
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	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73
175	5.0 - 9.0% of mass 174	5.2 (7.1) 1
176	95.0 - 101.0% of mass 174	69.9 (95.8) 1
177	5.0 - 9.0% of mass 176	4.5 (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
VSTDCCC020	VSTDCCC020	VN085052.D	11/27/2024	11:44
VN1127WBS01	VN1127WBS01	VN085053.D	11/27/2024	12:21
VN1127WBSD01	VN1127WBSD01	VN085054.D	11/27/2024	12:55
VN1127WBL01	VN1127WBL01	VN085055.D	11/27/2024	13:19
14B-1	P5018-01	VN085056.D	11/27/2024	13:56
14B-2	P5018-02	VN085057.D	11/27/2024	14:20
14B-3	P5018-03	VN085058.D	11/27/2024	14:44
14B-4	P5018-04	VN085059.D	11/27/2024	15:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: NEWY17
 Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG NO.: P5018
 Lab File ID: VN085052.D Date Analyzed: 11/27/2024
 Instrument ID: MSVOA_N Time Analyzed: 11:44
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	28768	7.81	155364	9.09	140160	11.87
UPPER LIMIT	57536	8.312	310728	9.594	280320	12.365
LOWER LIMIT	14384	7.312	77682	8.594	70080	11.365
EPA SAMPLE NO.						
14B-1	33381	7.81	177303	9.10	151222	11.87
14B-2	21362	7.81	109546	9.09	94649	11.87
14B-3	24374	7.81	124625	9.10	107923	11.87
14B-4	24391	7.81	127521	9.09	110334	11.87
VN1127WBL01	26189	7.81	138613	9.09	117498	11.87
VN1127WBS01	32660	7.81	179004	9.09	161319	11.86
VN1127WBSD01	29451	7.81	158864	9.10	140518	11.87

IS1 = Bromochloromethane
 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.



QC SAMPLE DATA

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1127WBL01	SDG No.:	P5018
Lab Sample ID:	VN1127WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085055.D	1		11/27/24 13:19	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1127WBL01	SDG No.:	P5018
Lab Sample ID:	VN1127WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085055.D	1		11/27/24 13:19	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.1		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.5		63 - 112	82%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	26200	7.806			
540-36-3	1,4-Difluorobenzene	139000	9.094			
3114-55-4	Chlorobenzene-d5	117000	11.865			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1127WBL01	SDG No.:	P5018
Lab Sample ID:	VN1127WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		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
VN085055.D	1		11/27/24 13:19	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	New York City DEP of Environmental Protection/BWS		Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024		Date Received:	
Client Sample ID:	VN1127WBS01		SDG No.:	P5018
Lab Sample ID:	VN1127WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	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
VN085053.D	1		11/27/24 12:21	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9		1.20	5.00	ug/L
74-87-3	Chloromethane	17.4		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.6		1.20	5.00	ug/L
74-83-9	Bromomethane	20.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	20.0		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		1.10	5.00	ug/L
67-64-1	Acetone	95.8		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	17.3		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	18.6		0.83	5.00	ug/L
79-20-9	Methyl Acetate	15.8		1.20	5.00	ug/L
75-09-2	Methylene Chloride	17.9		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.81	5.00	ug/L
110-82-7	Cyclohexane	18.7		1.00	5.00	ug/L
78-93-3	2-Butanone	88.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.90	5.00	ug/L
67-66-3	Chloroform	19.2		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.89	5.00	ug/L
71-43-2	Benzene	17.9		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.7		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.4		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	18.2		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	86.4		4.20	25.0	ug/L
108-88-3	Toluene	18.5		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.0		0.79	5.00	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS		Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024		Date Received:	
Client Sample ID:	VN1127WBS01		SDG No.:	P5018
Lab Sample ID:	VN1127WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	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
VN085053.D	1		11/27/24 12:21	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	18.5		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.68	5.00	ug/L
591-78-6	2-Hexanone	88.9		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	19.1		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.9		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	18.1		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.0		1.70	10.0	ug/L
95-47-6	o-Xylene	17.9		0.82	5.00	ug/L
100-42-5	Styrene	18.4		0.80	5.00	ug/L
75-25-2	Bromoform	17.9		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	18.8		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.8		0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.2		0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.4		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.0		1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.4		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.6		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.4		63 - 112	98%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32700	7.806			
540-36-3	1,4-Difluorobenzene	179000	9.094			
3114-55-4	Chlorobenzene-d5	161000	11.859			

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS	Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024	Date Received:	
Client Sample ID:	VN1127WBS01	SDG No.:	P5018
Lab Sample ID:	VN1127WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		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
VN085053.D	1		11/27/24 12:21	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	New York City DEP of Environmental Protection/BWS			Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024			Date Received:	
Client Sample ID:	VN1127WBSD01			SDG No.:	P5018
Lab Sample ID:	VN1127WBSD01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	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
VN085054.D	1		11/27/24 12:55	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		1.20	5.00	ug/L
74-87-3	Chloromethane	18.0		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	20.0		1.20	5.00	ug/L
74-83-9	Bromomethane	22.2		1.40	5.00	ug/L
75-00-3	Chloroethane	20.3		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	22.0		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	22.5		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		1.10	5.00	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	18.8		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	22.0		0.83	5.00	ug/L
79-20-9	Methyl Acetate	18.4		1.20	5.00	ug/L
75-09-2	Methylene Chloride	20.3		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.1		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.81	5.00	ug/L
110-82-7	Cyclohexane	20.3		1.00	5.00	ug/L
78-93-3	2-Butanone	100		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	21.6		0.91	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.6		0.90	5.00	ug/L
67-66-3	Chloroform	20.8		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.1		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	21.0		0.89	5.00	ug/L
71-43-2	Benzene	20.8		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	22.0		0.75	5.00	ug/L
79-01-6	Trichloroethene	21.0		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.65	5.00	ug/L
75-27-4	Bromodichloromethane	21.2		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		4.20	25.0	ug/L
108-88-3	Toluene	20.9		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.7		0.79	5.00	ug/L

Report of Analysis

Client:	New York City DEP of Environmental Protection/BWS			Date Collected:	
Project:	Industrial Wastewater Discharge Permit - Fall 2024			Date Received:	
Client Sample ID:	VN1127WBSD01			SDG No.:	P5018
Lab Sample ID:	VN1127WBSD01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	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
VN085054.D	1		11/27/24 12:55	VN112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	21.3		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.1		0.68	5.00	ug/L
591-78-6	2-Hexanone	100		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	21.6		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	22.4		0.94	5.00	ug/L
108-90-7	Chlorobenzene	20.9		0.67	5.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	41.4		1.70	10.0	ug/L
95-47-6	o-Xylene	21.3		0.82	5.00	ug/L
100-42-5	Styrene	20.8		0.80	5.00	ug/L
75-25-2	Bromoform	21.3		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.60	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.7		0.74	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.9		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.95	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.8		1.10	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.8		1.40	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.3		63 - 112	94%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29500	7.812			
540-36-3	1,4-Difluorobenzene	159000	9.1			
3114-55-4	Chlorobenzene-d5	141000	11.865			



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>NEWY17</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5018</u>
Instrument ID:	<u>MSVOA_N</u>	SAS No.:	<u>P5018</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>P5018</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>10/31/2024</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>12:08</u>
			<u>18:13</u>

LAB FILE ID:	RRF005 = VN084613.D	RRF020 = VN084614.D	RRF050 = VN084615.D					
	RRF100 = VN084616.D	RRF150 = VN084617.D	RRFCAL = VN084626.D					
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	RRF	% RSD
Dichlorodifluoromethane	1.762	1.842	1.727	1.647	1.746		1.745	4
Chloromethane	2.294	2.180	1.987	1.942	2.100		2.101	6.8
Vinyl Chloride	1.987	2.059	1.937	1.841	1.929		1.951	4.1
Bromomethane	1.026	1.087	0.943	0.927	0.969		0.990	6.7
Chloroethane	1.361	1.345	1.305	1.162	1.231		1.281	6.5
Trichlorofluoromethane	3.268	3.375	3.091	2.971	3.135		3.168	5
1,1,2-Trichlorotrifluoroethane	1.776	1.938	1.786	1.675	1.777		1.790	5.3
1,1-Dichloroethene	1.685	1.840	1.711	1.699	1.807		1.748	4
Acetone	0.231	0.235	0.223	0.223	0.233		0.229	2.3
Carbon Disulfide	5.140	5.375	5.016	4.956	5.235		5.144	3.3
Methyl tert-Butyl Ether	4.972	5.809	5.618	5.772	6.099		5.654	7.4
Methyl Acetate	3.900	2.690	2.326	2.302	2.408		2.725	24.8
Methylene Chloride	2.119	2.210	1.980	1.930	2.004		2.049	5.6
trans-1,2-Dichloroethene	1.819	1.905	1.810	1.776	1.854		1.833	2.7
1,1-Dichloroethane	3.711	3.802	3.469	3.417	3.534		3.587	4.6
Cyclohexane	0.444	0.511	0.520	0.517	0.539		0.506	7.2
2-Butanone	0.206	0.207	0.207	0.210	0.213		0.208	1.3
Carbon Tetrachloride	0.545	0.536	0.517	0.504	0.517		0.524	3.2
cis-1,2-Dichloroethene	2.121	2.237	2.172	2.141	2.269		2.188	2.9
Chloroform	3.764	3.915	3.598	3.469	3.627		3.675	4.6
1,1,1-Trichloroethane	0.631	0.645	0.604	0.593	0.595		0.614	3.8
Methylcyclohexane	0.429	0.479	0.495	0.504	0.526		0.486	7.5
Benzene	1.549	1.525	1.476	1.460	1.458		1.494	2.8
1,2-Dichloroethane	0.521	0.521	0.488	0.469	0.484		0.497	4.7
Trichloroethene	0.340	0.350	0.331	0.325	0.338		0.337	2.8
1,2-Dichloropropane	0.371	0.372	0.351	0.349	0.355		0.360	3.1
Bromodichloromethane	0.566	0.547	0.526	0.526	0.531		0.539	3.2
4-Methyl-2-Pentanone	0.453	0.490	0.472	0.475	0.478		0.473	2.8
Toluene	1.732	1.781	1.675	1.658	1.698		1.709	2.9
t-1,3-Dichloropropene	0.509	0.529	0.535	0.538	0.551		0.532	2.9

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>NEWY17</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5018</u>
Instrument ID:	<u>MSVOA_N</u>	SAS No.:	<u>P5018</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>P5018</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>10/31/2024</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>12:08</u>
			<u>18:13</u>

LAB FILE ID:		RRF005 = VN084613.D		RRF020 = VN084614.D		RRF050 = VN084615.D		
		RRF100 = VN084616.D		RRF150 = VN084617.D		RRFCAL = VN084626.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	RRF	% RSD
cis-1,3-Dichloropropene	0.535	0.580	0.567	0.580	0.592		0.571	3.8
1,1,2-Trichloroethane	0.340	0.353	0.336	0.330	0.328		0.337	3
2-Hexanone	0.325	0.355	0.349	0.354	0.351		0.347	3.6
Dibromochloromethane	0.378	0.400	0.401	0.397	0.398		0.395	2.5
1,2-Dibromoethane	0.334	0.357	0.337	0.339	0.339		0.341	2.6
Tetrachloroethene	0.313	0.331	0.310	0.305	0.311		0.314	3.1
Chlorobenzene	1.030	1.071	1.018	1.011	1.028		1.032	2.3
Ethyl Benzene	1.596	1.824	1.829	1.836	1.894		1.796	6.4
m/p-Xylenes	0.615	0.710	0.706	0.695	0.712		0.687	6
o-Xylene	0.569	0.690	0.681	0.683	0.692		0.663	7.9
Styrene	0.911	1.136	1.179	1.154	1.180		1.112	10.2
Bromoform	0.254	0.262	0.269	0.270	0.268		0.265	2.6
Isopropylbenzene	1.407	1.671	1.715	1.692	1.752		1.647	8.3
1,1,2,2-Tetrachloroethane	0.555	0.568	0.529	0.510	0.509		0.534	4.9
1,3,5-Trimethylbenzene	1.193	1.438	1.480	1.442	1.485		1.408	8.6
1,3-Dichlorobenzene	0.736	0.812	0.793	0.787	0.801		0.786	3.7
1,4-Dichlorobenzene	0.729	0.784	0.790	0.779	0.801		0.776	3.6
1,2-Dichlorobenzene	0.724	0.821	0.787	0.760	0.780		0.774	4.6
1,2-Dibromo-3-Chloropropane	0.099	0.108	0.106	0.098	0.105		0.103	4.3
1,2,4-Trichlorobenzene	0.308	0.383	0.381	0.390	0.424		0.377	11.2
1,2,3-Trichlorobenzene	0.308	0.383	0.381	0.390	0.424		0.377	11.2
1,2-Dichloroethane-d4	2.444	2.473	2.377	2.353	2.413		2.412	2
Toluene-d8	1.451	1.442	1.416	1.393	1.398		1.420	1.8
4-Bromofluorobenzene	0.482	0.506	0.531	0.538	0.526		0.517	4.4

* 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: NEWY17

Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG No.: P5018

Instrument ID: MSVOA_N Calibration Date/Time: 11/27/2024 11:44

Lab File ID: VN085052.D Init. Calib. Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:08 18:13

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.745	1.674		-4.07	
Chloromethane	2.101	1.893		-9.9	
Vinyl Chloride	1.951	1.786	0.1	-8.46	
Bromomethane	0.990	1.067	0.1	7.68	
Chloroethane	1.281	1.153		-9.99	
Trichlorofluoromethane	3.168	3.160		-0.25	
1,1,2-Trichlorotrifluoroethane	1.790	1.817		1.51	
1,1-Dichloroethene	1.748	1.652	0.1	-5.49	
Acetone	0.229	0.208		-9.17	
Carbon Disulfide	5.144	4.540		-11.74	
Methyl tert-Butyl Ether	5.654	5.120		-9.44	
Methyl Acetate	2.725	2.081		-23.63	
Methylene Chloride	2.049	1.867		-8.88	
trans-1,2-Dichloroethene	1.833	1.739		-5.13	
1,1-Dichloroethane	3.587	3.289	0.2	-8.31	
Cyclohexane	0.506	0.455		-10.08	
2-Butanone	0.208	0.178		-14.42	
Carbon Tetrachloride	0.524	0.506	0.1	-3.43	
cis-1,2-Dichloroethene	2.188	2.041		-6.72	
Chloroform	3.675	3.498	0.2	-4.82	
1,1,1-Trichloroethane	0.614	0.589	0.1	-4.07	
Methylcyclohexane	0.486	0.438		-9.88	
Benzene	1.494	1.359	0.5	-9.04	
1,2-Dichloroethane	0.497	0.465	0.1	-6.44	
Trichloroethene	0.337	0.318	0.3	-5.64	
1,2-Dichloropropane	0.360	0.335		-6.94	
Bromodichloromethane	0.539	0.495	0.2	-8.16	
4-Methyl-2-Pentanone	0.473	0.398		-15.86	
Toluene	1.709	1.592	0.4	-6.85	
t-1,3-Dichloropropene	0.532	0.485	0.1	-8.84	
cis-1,3-Dichloropropene	0.571	0.536	0.2	-6.13	
1,1,2-Trichloroethane	0.337	0.316	0.1	-6.23	
2-Hexanone	0.347	0.290		-16.43	
Dibromochloromethane	0.395	0.376	0.1	-4.81	
1,2-Dibromoethane	0.341	0.309		-9.38	
Tetrachloroethene	0.314	0.301	0.2	-4.14	
Chlorobenzene	1.032	0.987	0.5	-4.36	
Ethyl Benzene	1.796	1.622	0.1	-9.69	

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: NEWY17

Lab Code: CHEM Case No.: P5018 SAS No.: P5018 SDG No.: P5018

Instrument ID: MSVOA_N Calibration Date/Time: 11/27/2024 11:44

Lab File ID: VN085052.D Init. Calib. Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:08 18:13

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
m/p-Xylenes	0.687	0.636	0.3	-7.42	
o-Xylene	0.663	0.611	0.3	-7.84	
Styrene	1.112	1.036	0.3	-6.84	
Bromoform	0.265	0.236	0.1	-10.94	
Isopropylbenzene	1.647	1.539		-6.56	
1,1,2,2-Tetrachloroethane	0.534	0.477	0.3	-10.67	
1,3,5-Trimethylbenzene	1.408	1.353		-3.91	
1,3-Dichlorobenzene	0.786	0.743	0.2	-5.47	
1,4-Dichlorobenzene	0.776	0.748	0.2	-3.61	
1,2-Dichlorobenzene	0.774	0.715	0.2	-7.62	
1,2-Dibromo-3-Chloropropane	0.103	0.086		-16.5	
1,2,4-Trichlorobenzene	0.377	0.365	0.2	-3.18	
1,2,3-Trichlorobenzene	0.377	0.365		-3.18	
1,2-Dichloroethane-d4	2.412	2.387	0.01	-1.04	
Toluene-d8	1.420	1.388	0.01	-2.25	
4-Bromofluorobenzene	0.517	0.499	0.2	-3.48	

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