

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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



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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:



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	RPD
									High	
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	RPD
									High	
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: _____



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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



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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.



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
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

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	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
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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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085056.D
Acq On : 27 Nov 2024 13:56
Operator : JC\MD
Sample : P5018-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-1

Quant Time: Nov 28 06:52:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	33381	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	177303	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151222	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80312	29.927	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.767%
60) 4-Bromofluorobenzene	12.847	95	64801	24.887	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.967%
63) Toluene-d8	10.565	98	205957	28.769	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.900%

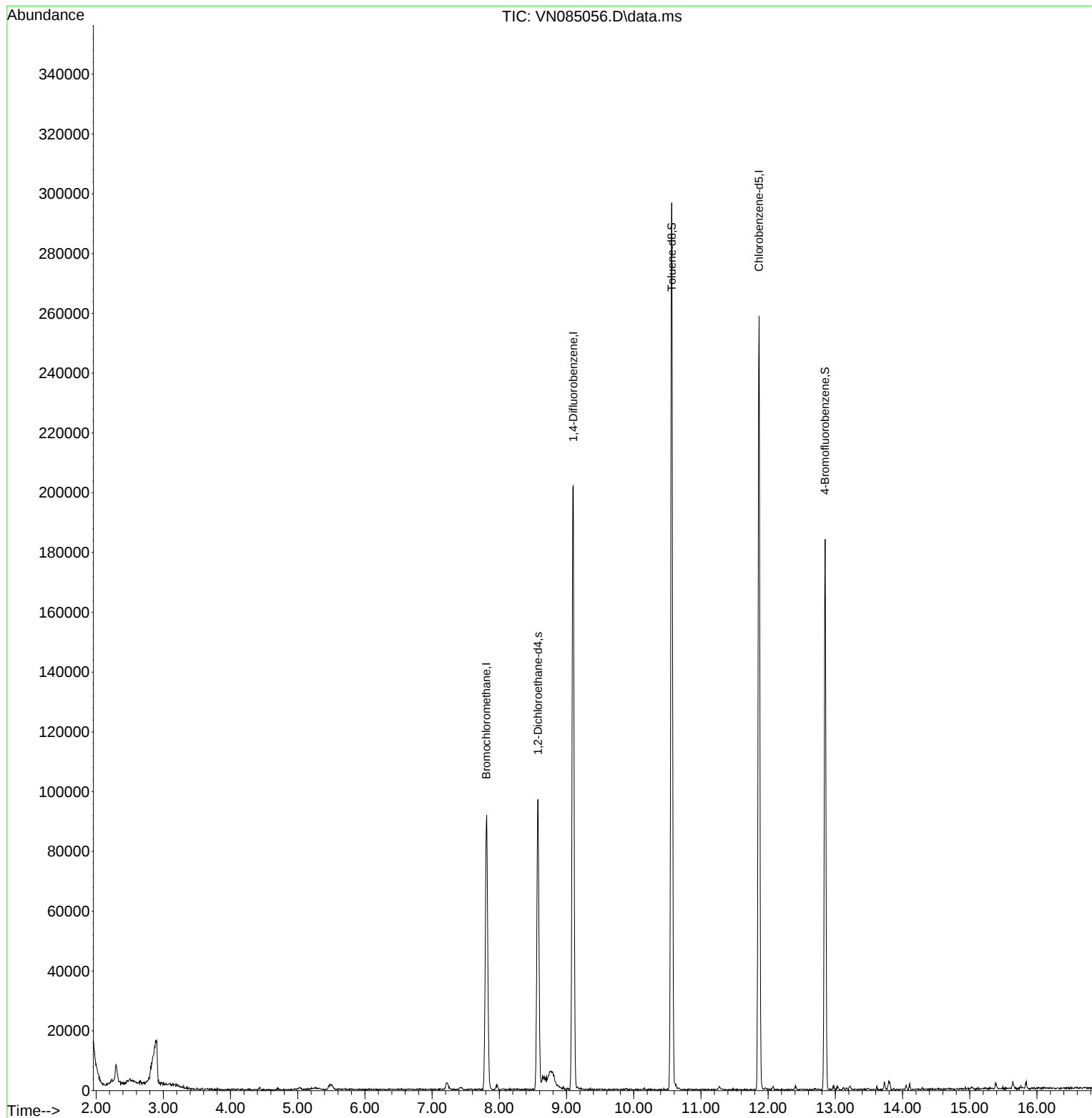
Target Compounds	Qvalue

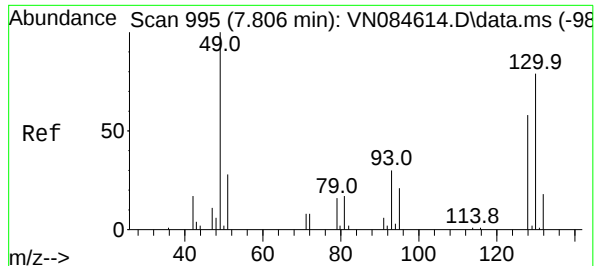
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085056.D
Acq On : 27 Nov 2024 13:56
Operator : JC\MD
Sample : P5018-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-1

Quant Time: Nov 28 06:52:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085056.D

Acq: 27 Nov 2024 13:56

Instrument :

MSVOA_N

ClientSampleId :

14B-1

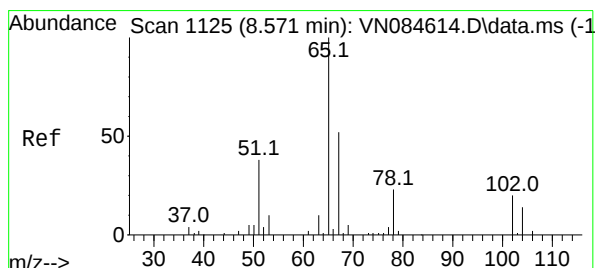
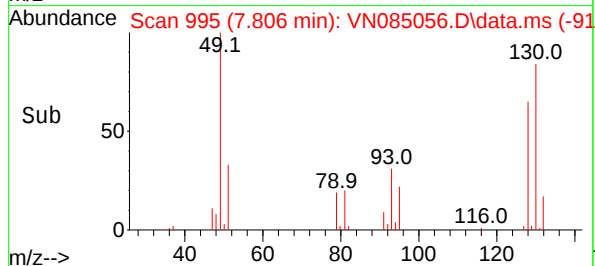
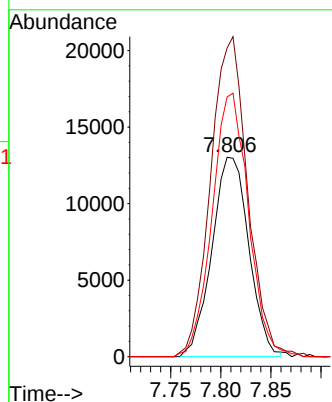
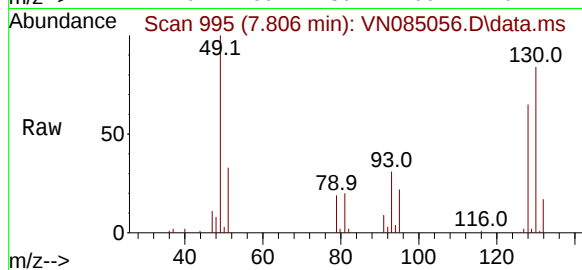
Tgt Ion:128 Resp: 33381

Ion Ratio Lower Upper

128 100

49 160.9 0.0 427.0

130 130.2 0.0 322.2



#27

1,2-Dichloroethane-d4

Concen: 29.927 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085056.D

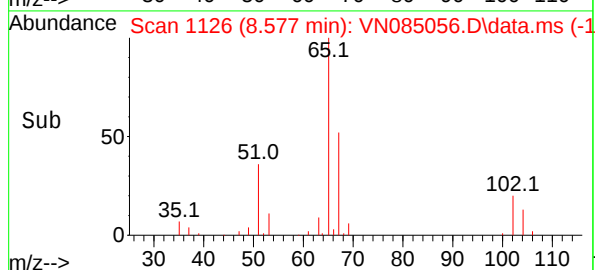
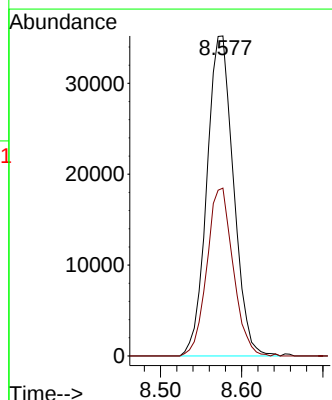
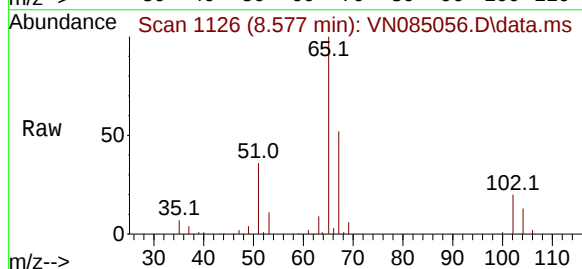
Acq: 27 Nov 2024 13:56

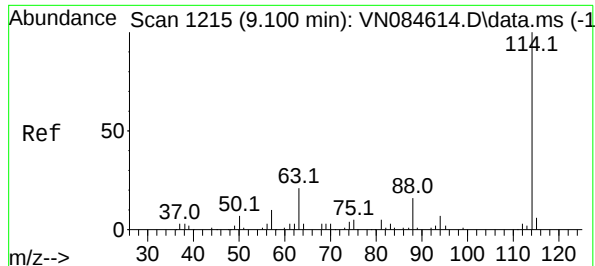
Tgt Ion: 65 Resp: 80312

Ion Ratio Lower Upper

65 100

67 51.6 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114B-1

Delta R.T. 0.000 min

Lab File: VN085056.D

Acq: 27 Nov 2024 13:56

Instrument :

MSVOA_N

ClientSampleId :

14B-1

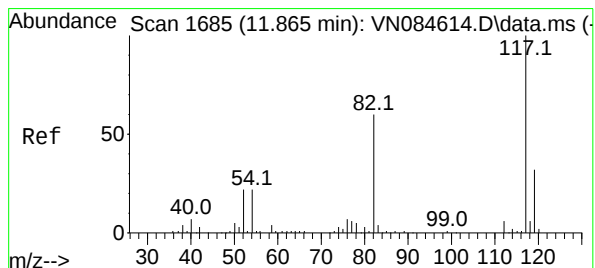
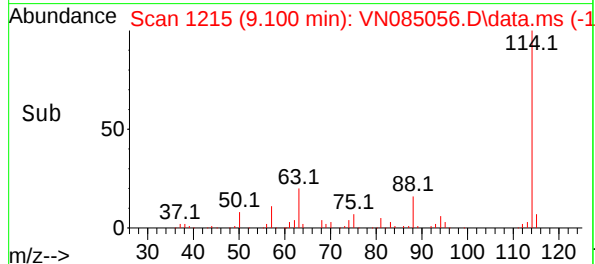
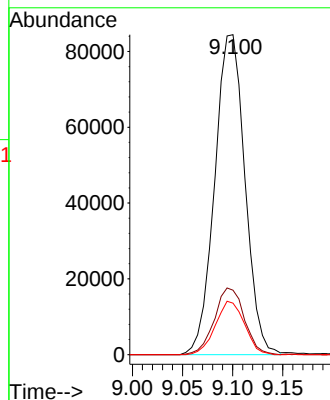
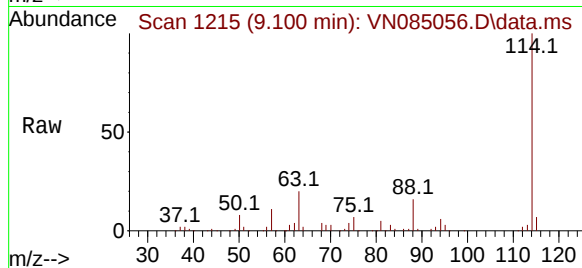
Tgt Ion:114 Resp: 177303

Ion Ratio Lower Upper

114 100

63 20.6 16.8 25.2

88 16.1 12.9 19.3



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085056.D

Acq: 27 Nov 2024 13:56

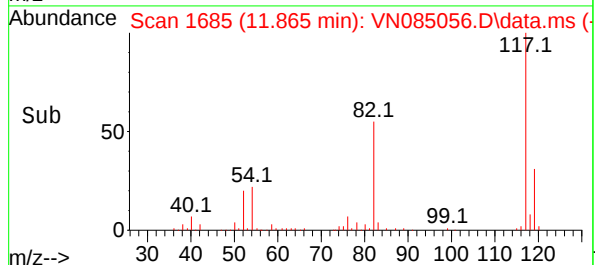
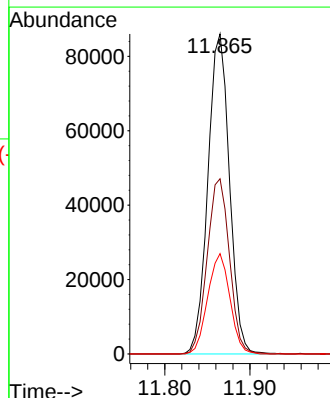
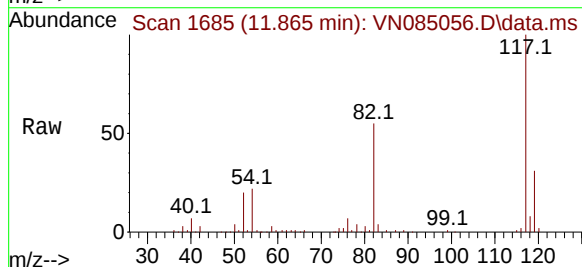
Tgt Ion:117 Resp: 151222

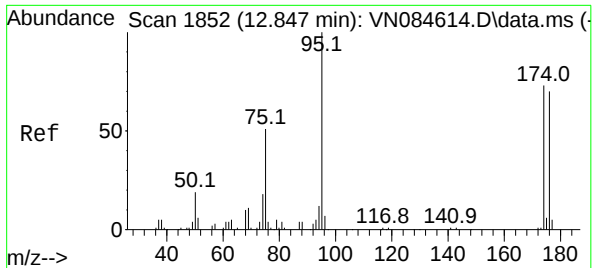
Ion Ratio Lower Upper

117 100

82 56.5 45.5 68.3

119 32.2 25.3 37.9

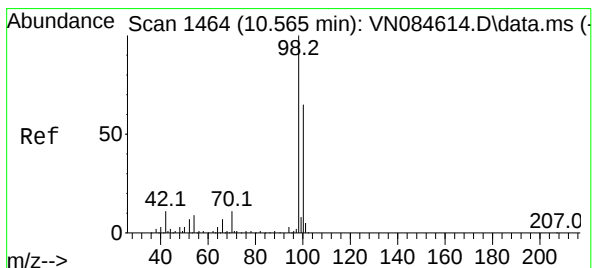
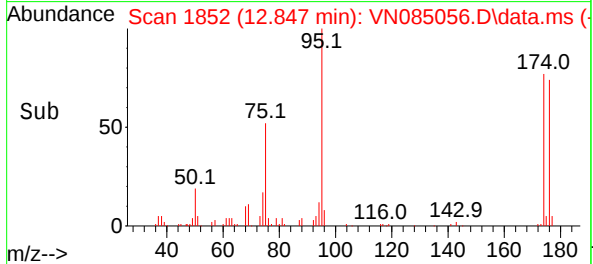
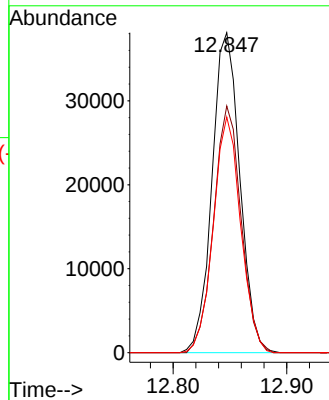
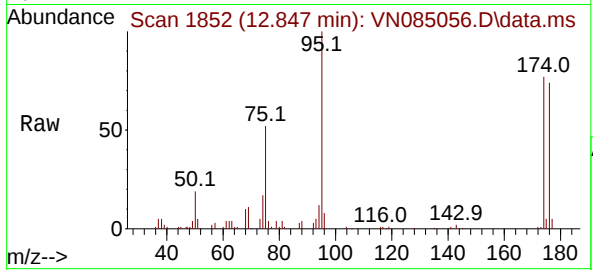




#60
4-Bromofluorobenzene
Concen: 24.887 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085056.D
Acq: 27 Nov 2024 13:56

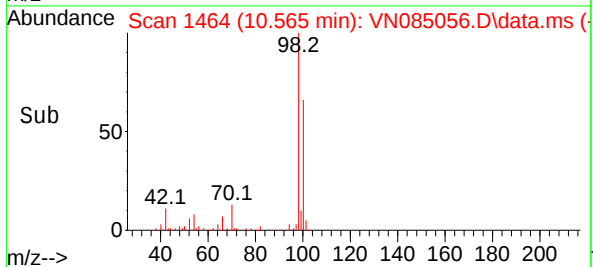
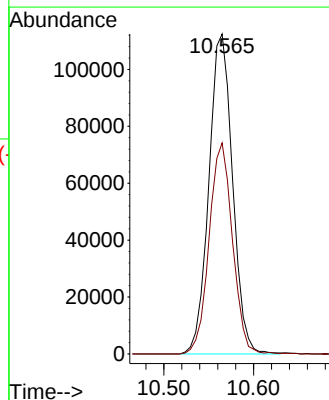
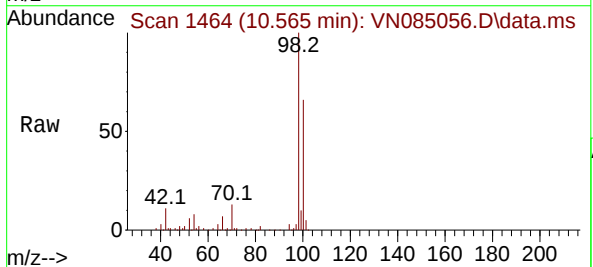
Instrument :
MSVOA_N
ClientSampleId :
14B-1

Tgt Ion: 95 Resp: 64801
Ion Ratio Lower Upper
95 100
174 76.0 59.6 89.4
176 72.7 58.6 88.0



#63
Toluene-d8
Concen: 28.769 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085056.D
Acq: 27 Nov 2024 13:56

Tgt Ion: 98 Resp: 205957
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



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
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
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
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
------------	-----------	-------	-----------	-----	------------	-------

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085057.D
Acq On : 27 Nov 2024 14:20
Operator : JC\MD
Sample : P5018-02 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-2

Quant Time: Nov 28 06:57:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	21362	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	109546	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	94649	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	51084	29.745	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.167%
60) 4-Bromofluorobenzene	12.847	95	38956	23.904	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.667%
63) Toluene-d8	10.565	98	125867	28.091	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.633%

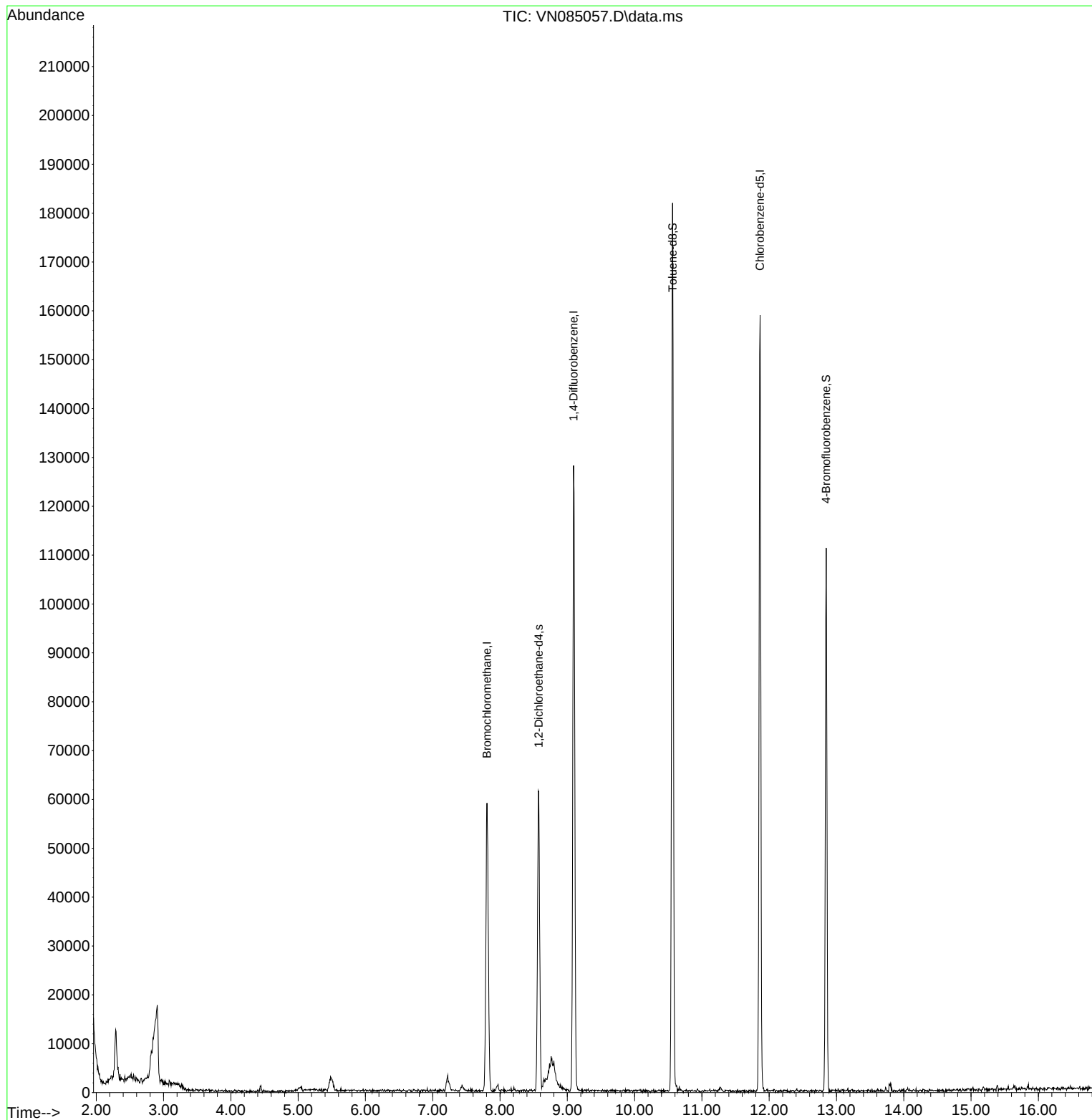
Target Compounds	Qvalue

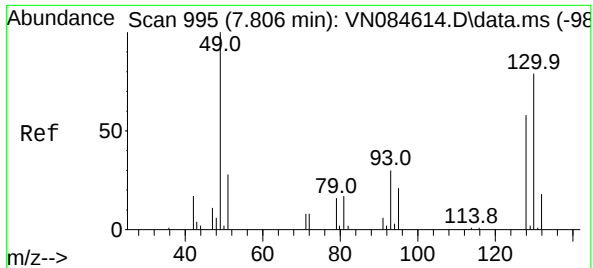
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085057.D
Acq On : 27 Nov 2024 14:20
Operator : JC\MD
Sample : P5018-02 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-2

Quant Time: Nov 28 06:57:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

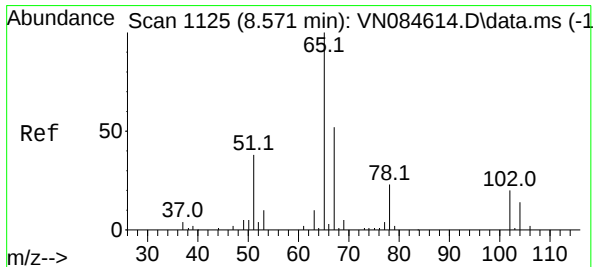
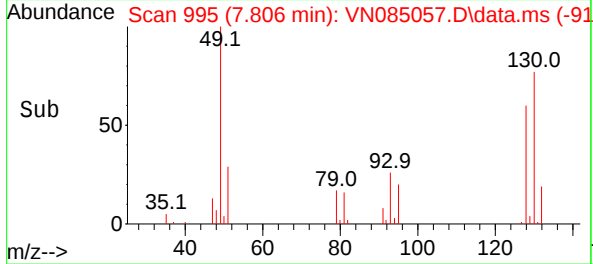
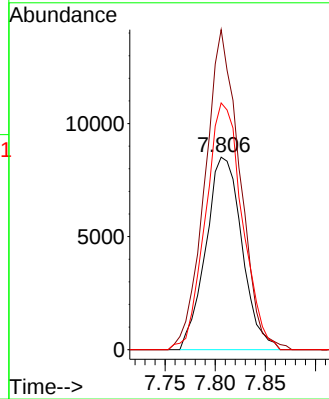
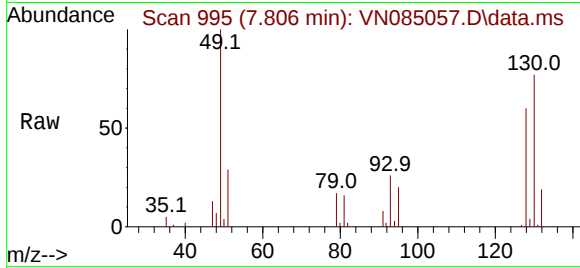




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085057.D
Acq: 27 Nov 2024 14:20

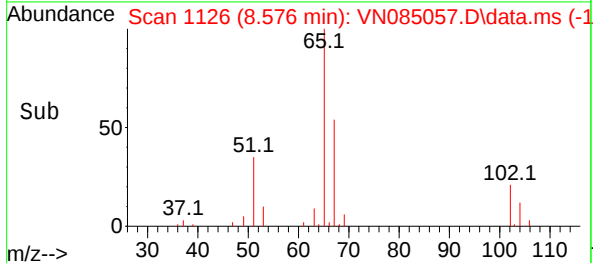
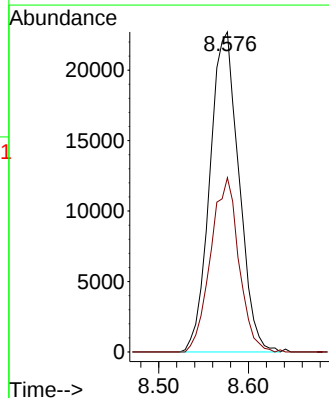
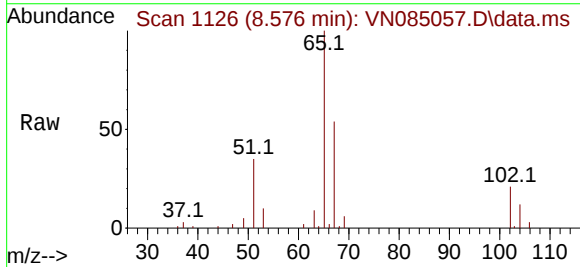
Instrument :
MSVOA_N
ClientSampleId :
14B-2

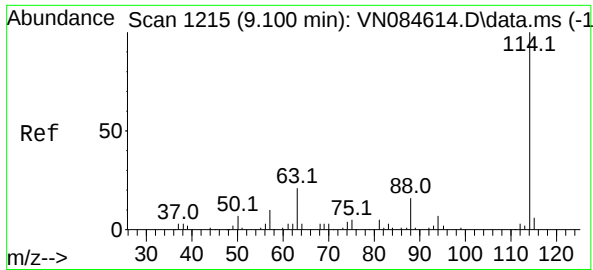
Tgt Ion:128 Resp: 21362
Ion Ratio Lower Upper
128 100
49 160.1 0.0 427.0
130 130.4 0.0 322.2



#27
1,2-Dichloroethane-d4
Concen: 29.745 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085057.D
Acq: 27 Nov 2024 14:20

Tgt Ion: 65 Resp: 51084
Ion Ratio Lower Upper
65 100
67 52.7 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085057.D

Acq: 27 Nov 2024 14:20

Instrument :

MSVOA_N

ClientSampleId :

14B-2

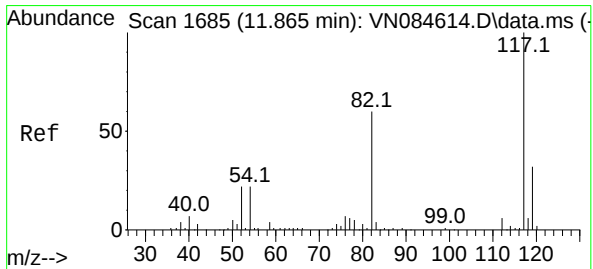
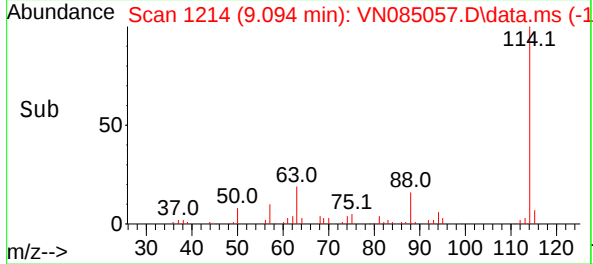
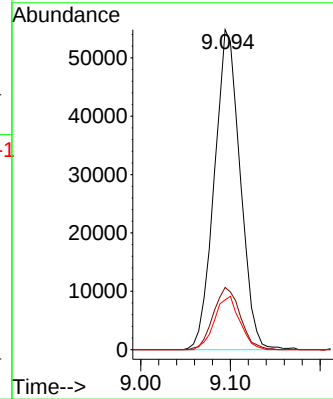
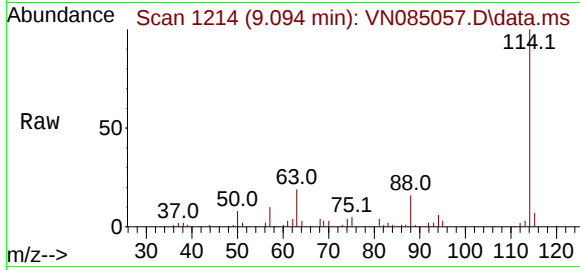
Tgt Ion:114 Resp: 109546

Ion Ratio Lower Upper

114 100

63 20.2 16.8 25.2

88 16.3 12.9 19.3



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085057.D

Acq: 27 Nov 2024 14:20

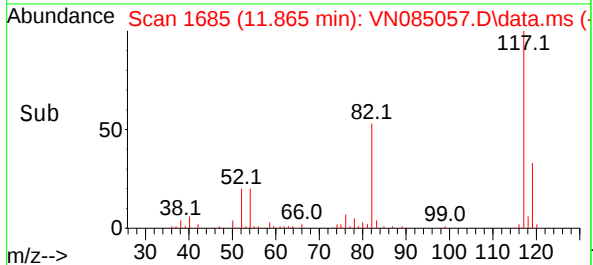
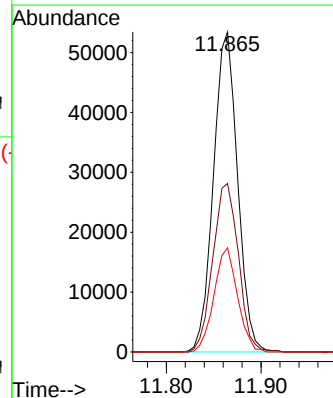
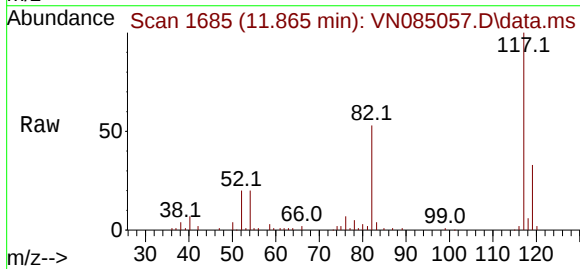
Tgt Ion:117 Resp: 94649

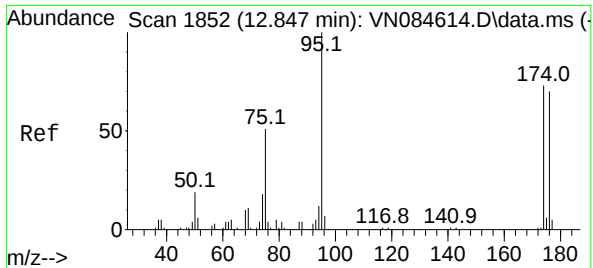
Ion Ratio Lower Upper

117 100

82 55.7 45.5 68.3

119 31.7 25.3 37.9





#60

4-Bromofluorobenzene

Concen: 23.904 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085057.D

Acq: 27 Nov 2024 14:20

Instrument :

MSVOA_N

ClientSampleId :

14B-2

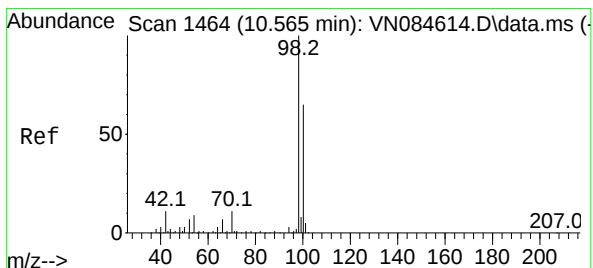
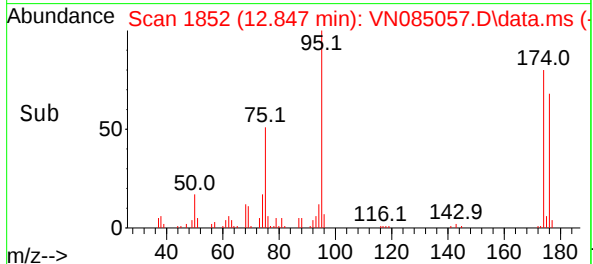
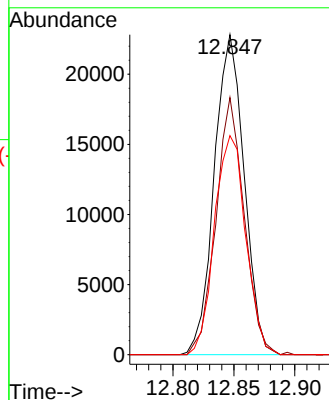
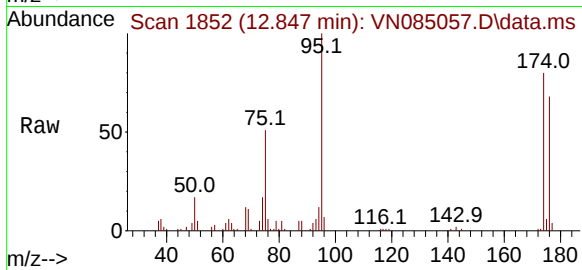
Tgt Ion: 95 Resp: 38956

Ion Ratio Lower Upper

95 100

174 76.0 59.6 89.4

176 71.6 58.6 88.0



#63

Toluene-d8

Concen: 28.091 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085057.D

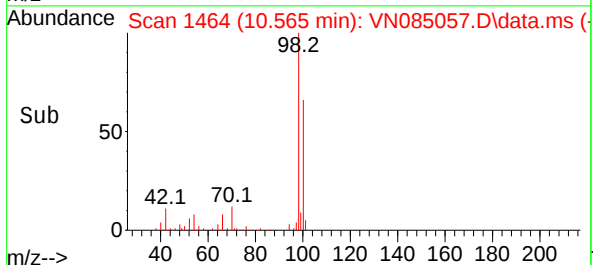
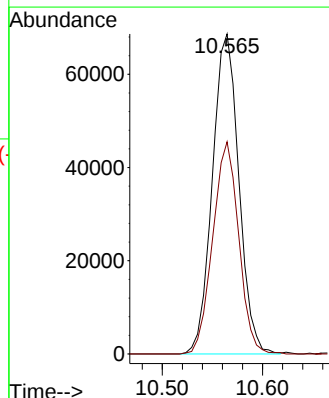
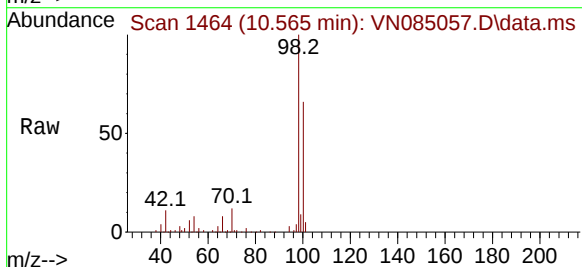
Acq: 27 Nov 2024 14:20

Tgt Ion: 98 Resp: 125867

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



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
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
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
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
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
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
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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085058.D
Acq On : 27 Nov 2024 14:44
Operator : JC\MD
Sample : P5018-03 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Quant Time: Nov 28 05:33:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	24374	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	124625	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	107923	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	59942	30.590	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.967%
60) 4-Bromofluorobenzene	12.847	95	44374	23.879	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.600%
63) Toluene-d8	10.559	98	146031	28.583	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.267%

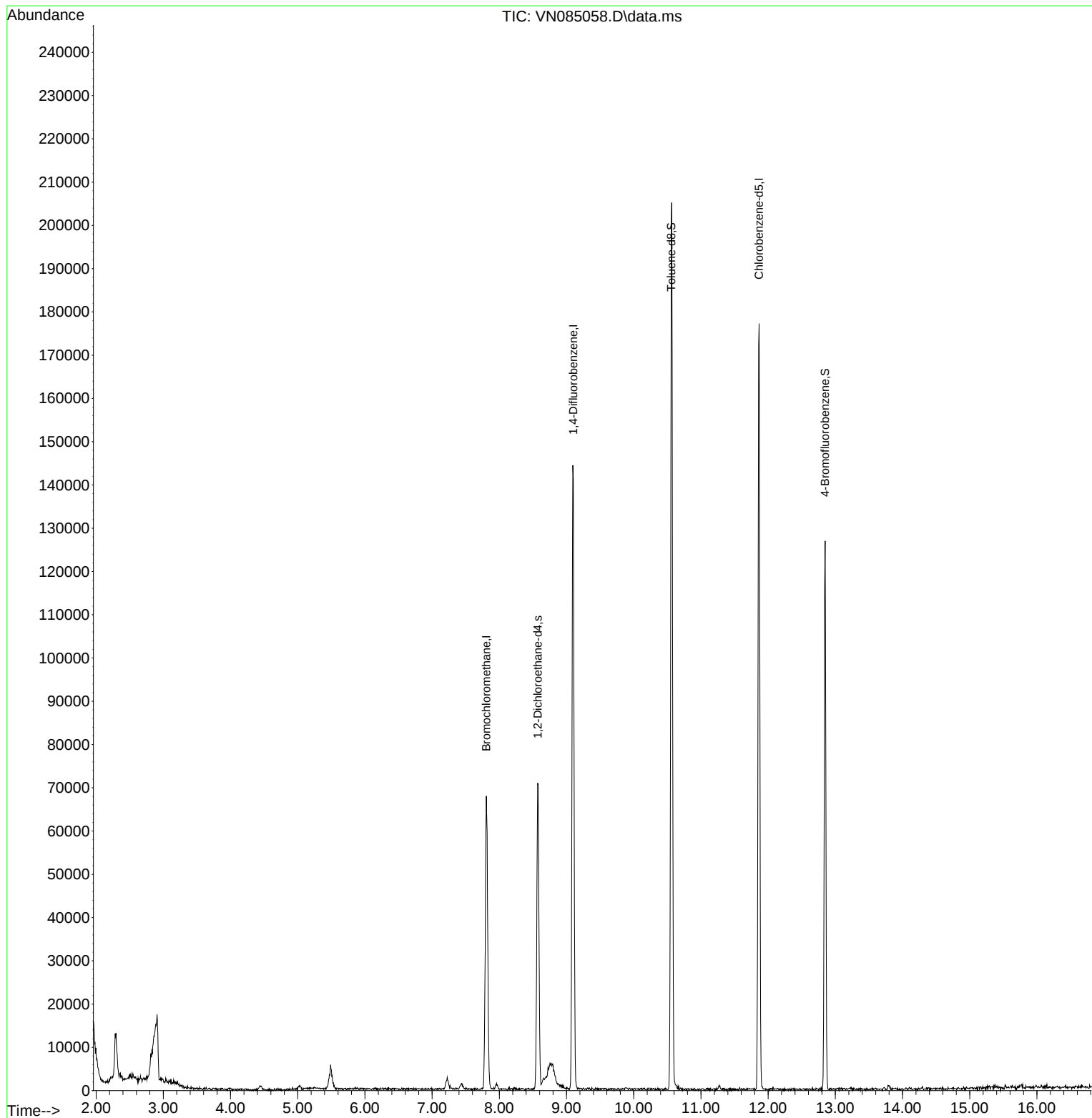
Target Compounds	Qvalue

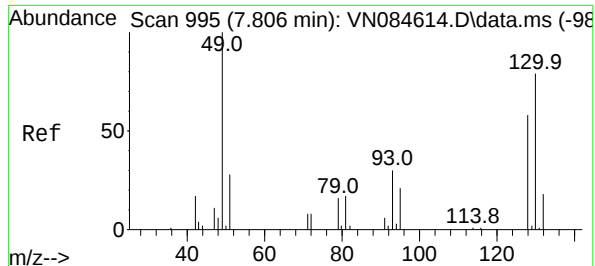
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085058.D
Acq On : 27 Nov 2024 14:44
Operator : JC\MD
Sample : P5018-03 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Quant Time: Nov 28 05:33:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

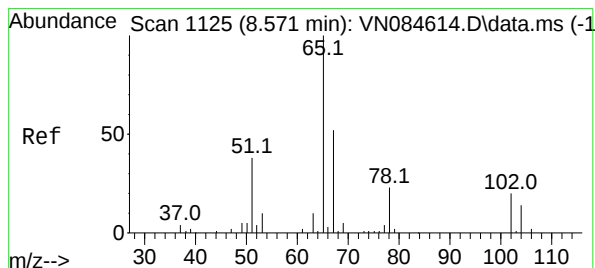
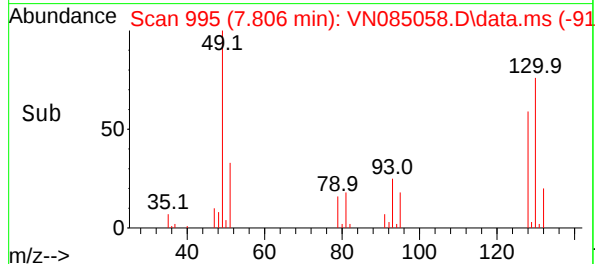
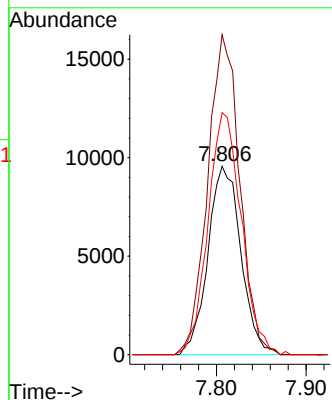
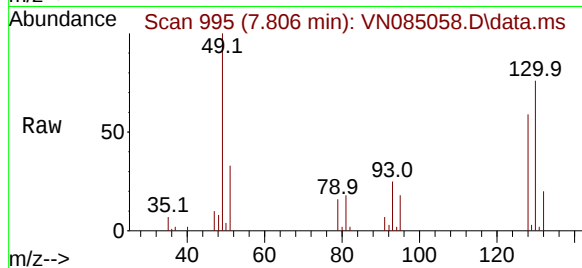




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085058.D
Acq: 27 Nov 2024 14:44

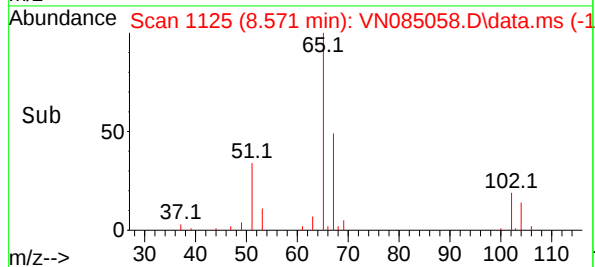
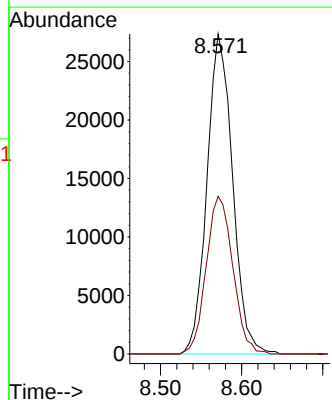
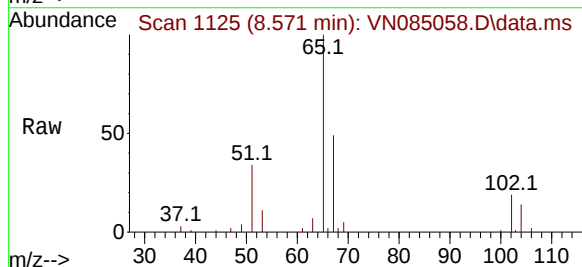
Instrument :
MSVOA_N
ClientSampleId :
14B-3

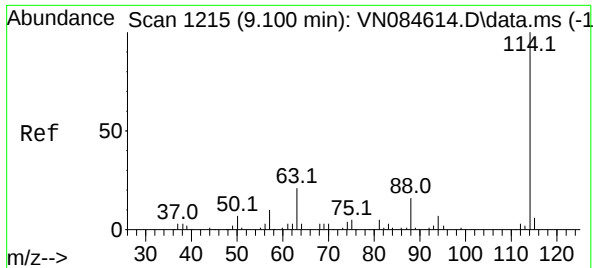
Tgt Ion:128 Resp: 24374
Ion Ratio Lower Upper
128 100
49 165.5 0.0 427.0
130 130.1 0.0 322.2



#27
1,2-Dichloroethane-d4
Concen: 30.590 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085058.D
Acq: 27 Nov 2024 14:44

Tgt Ion: 65 Resp: 59942
Ion Ratio Lower Upper
65 100
67 51.1 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085058.D

Acq: 27 Nov 2024 14:44

Instrument :

MSVOA_N

ClientSampleId :

14B-3

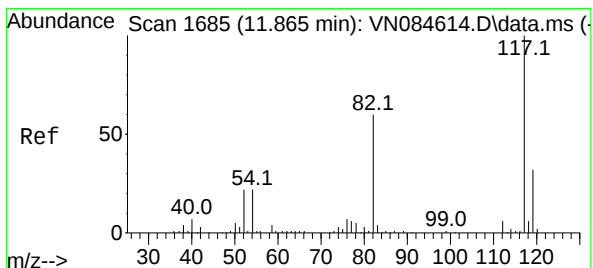
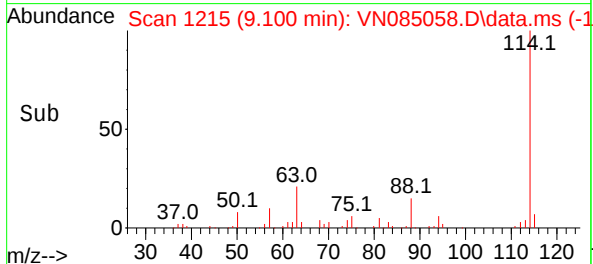
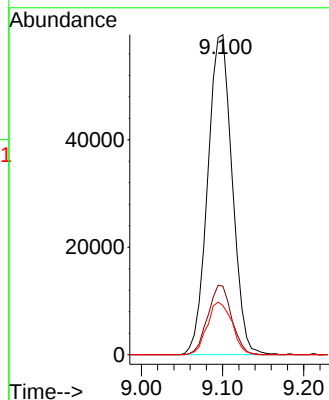
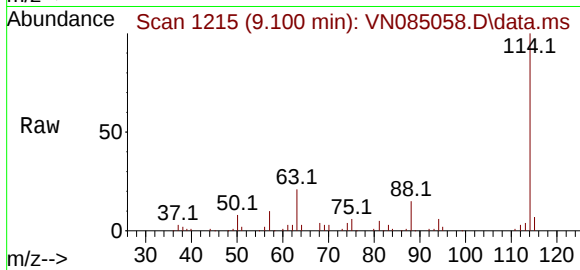
Tgt Ion:114 Resp: 124625

Ion Ratio Lower Upper

114 100

63 21.1 16.8 25.2

88 16.6 12.9 19.3



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085058.D

Acq: 27 Nov 2024 14:44

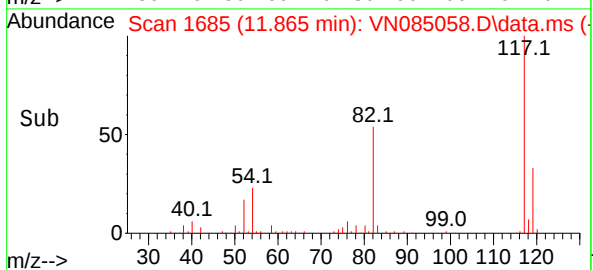
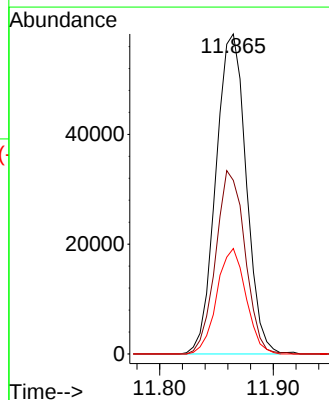
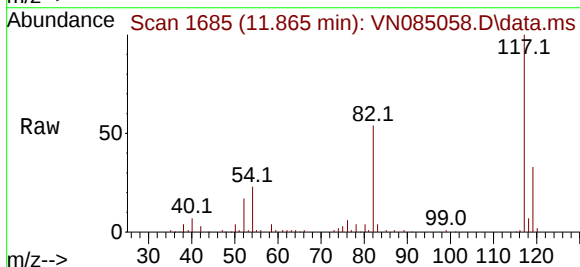
Tgt Ion:117 Resp: 107923

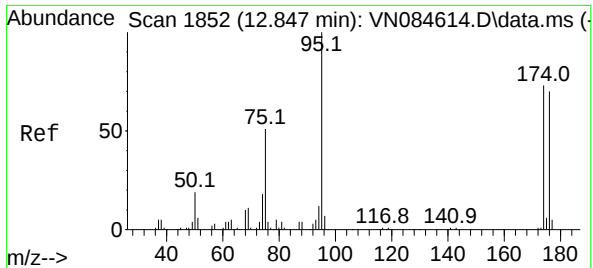
Ion Ratio Lower Upper

117 100

82 55.6 45.5 68.3

119 31.7 25.3 37.9

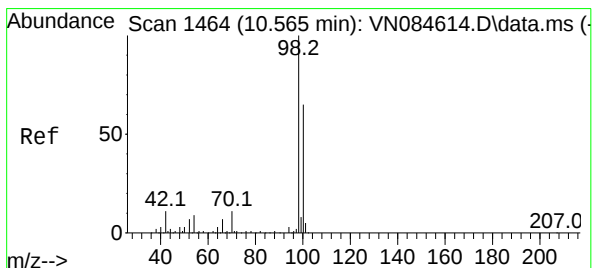
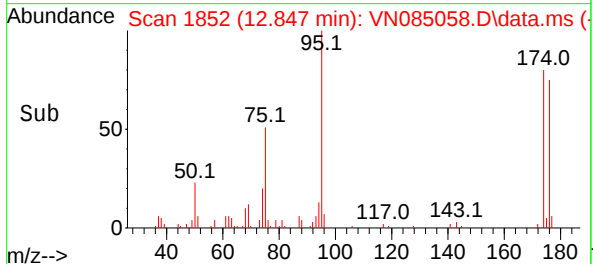
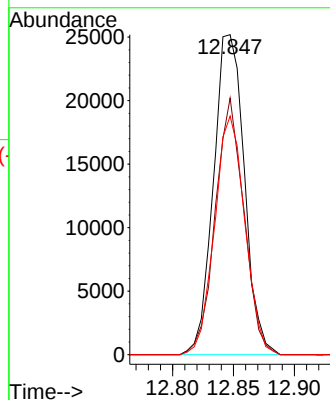
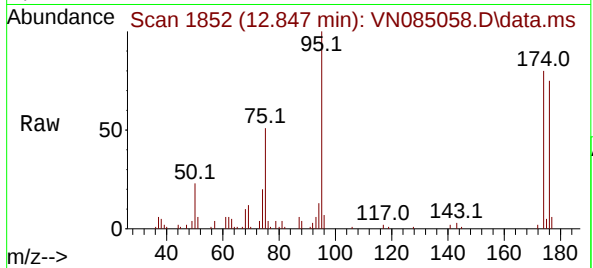




#60
4-Bromofluorobenzene
Concen: 23.879 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085058.D
Acq: 27 Nov 2024 14:44

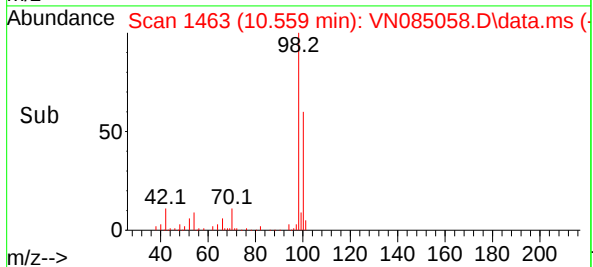
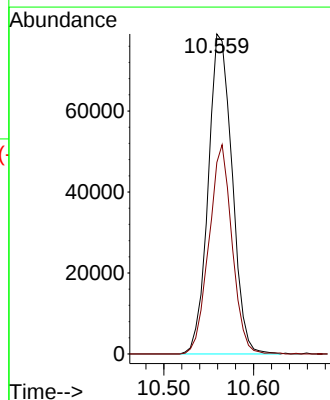
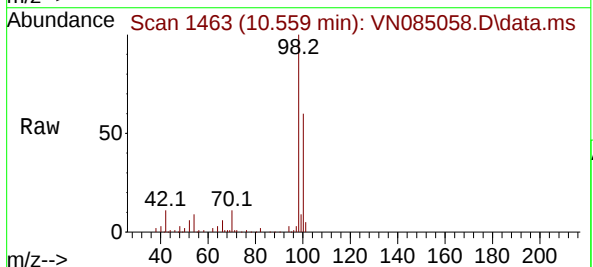
Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tgt Ion: 95 Resp: 44374
Ion Ratio Lower Upper
95 100
174 74.3 59.6 89.4
176 73.1 58.6 88.0



#63
Toluene-d8
Concen: 28.583 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085058.D
Acq: 27 Nov 2024 14:44

Tgt Ion: 98 Resp: 146031
Ion Ratio Lower Upper
98 100
100 63.1 52.2 78.2



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
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
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
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
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
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
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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085059.D
 Acq On : 27 Nov 2024 15:07
 Operator : JC\MD
 Sample : P5018-04 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: Nov 28 05:34:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	24391	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	127521	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110334	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	61032	31.125	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.733%
60) 4-Bromofluorobenzene	12.847	95	44319	23.329	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.767%
63) Toluene-d8	10.565	98	147800	28.297	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.333%

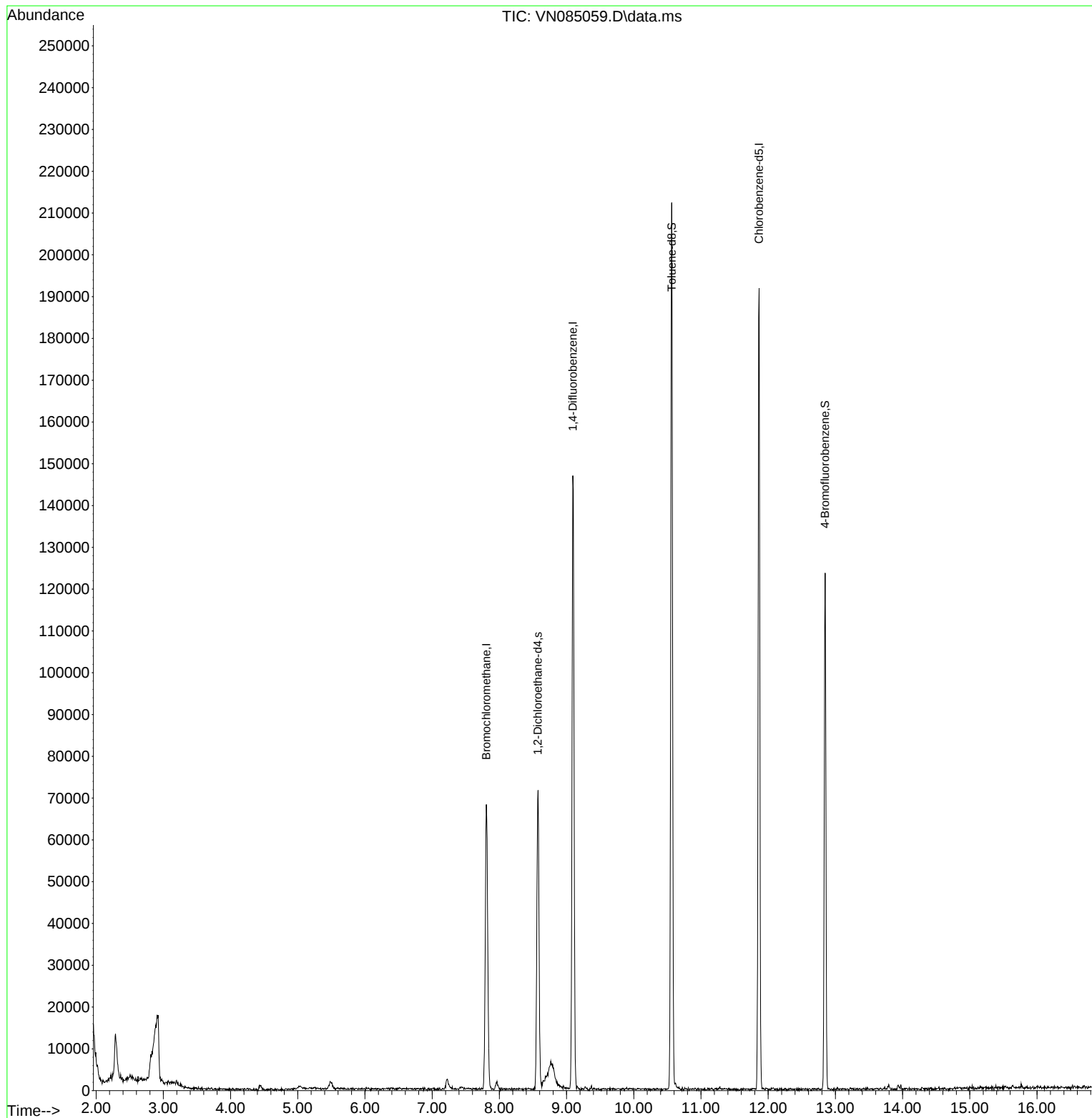
Target Compounds	Qvalue

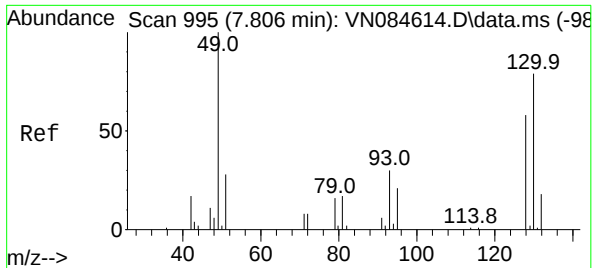
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085059.D
Acq On : 27 Nov 2024 15:07
Operator : JC\MD
Sample : P5018-04 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-4

Quant Time: Nov 28 05:34:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

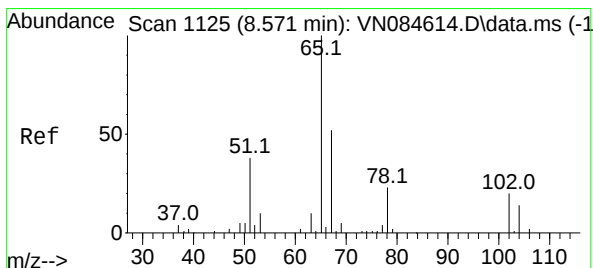
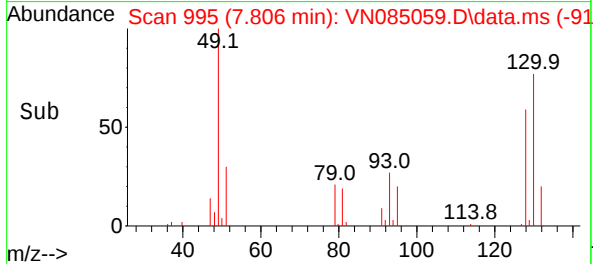
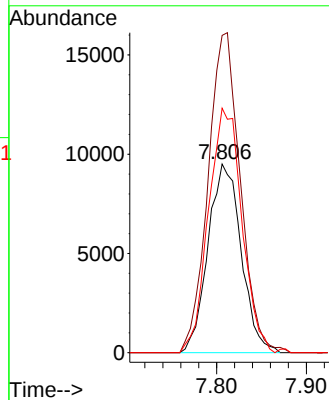
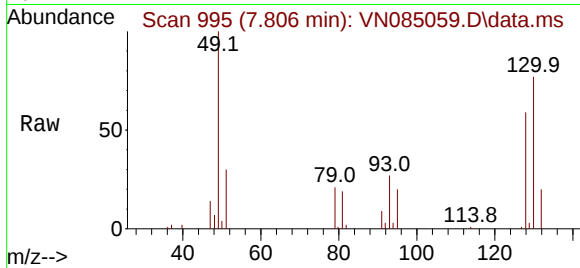




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085059.D
Acq: 27 Nov 2024 15:07

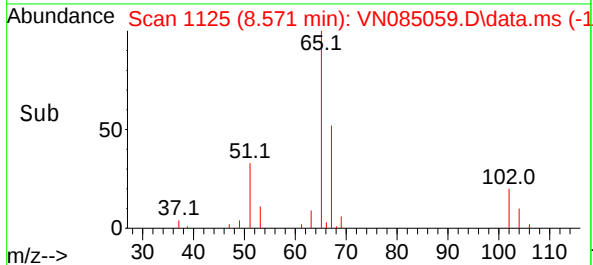
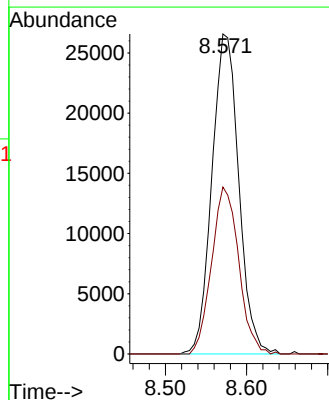
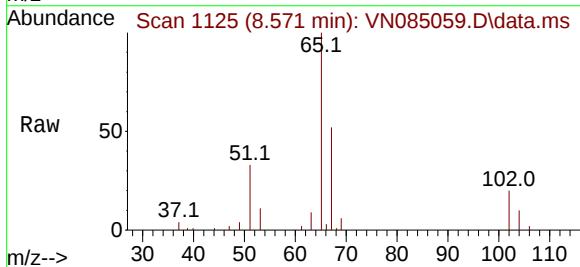
Instrument :
MSVOA_N
ClientSampleId :
14B-4

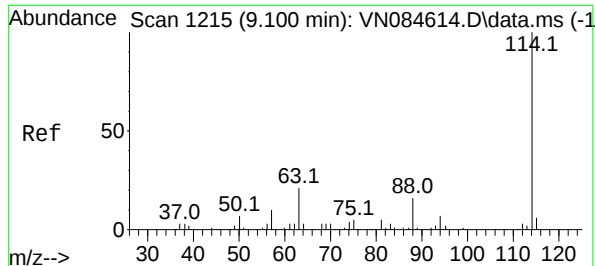
Tgt Ion:128 Resp: 24391
Ion Ratio Lower Upper
128 100
49 164.8 0.0 427.0
130 130.5 0.0 322.2



#27
1,2-Dichloroethane-d4
Concen: 31.125 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085059.D
Acq: 27 Nov 2024 15:07

Tgt Ion: 65 Resp: 61032
Ion Ratio Lower Upper
65 100
67 52.6 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN085059.D

Acq: 27 Nov 2024 15:07

Instrument :

MSVOA_N

ClientSampleId :

14B-4

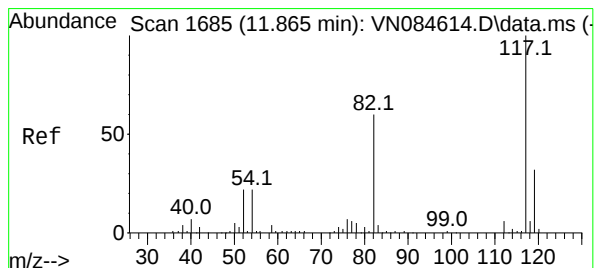
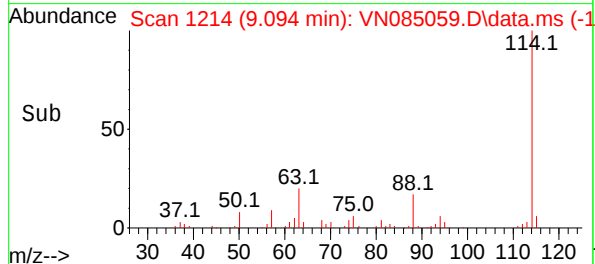
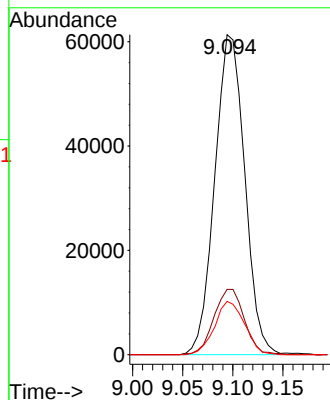
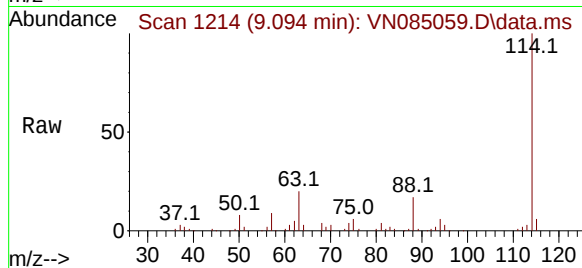
Tgt Ion:114 Resp: 127521

Ion Ratio Lower Upper

114 100

63 20.7 16.8 25.2

88 16.7 12.9 19.3



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085059.D

Acq: 27 Nov 2024 15:07

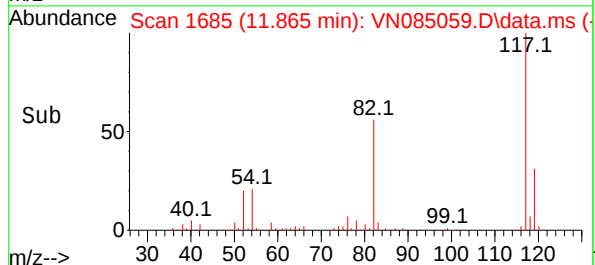
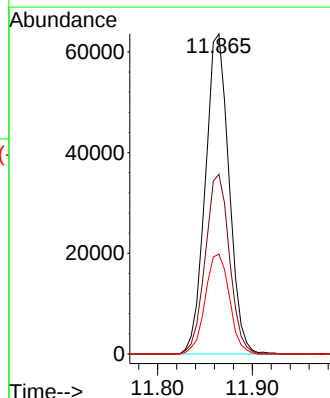
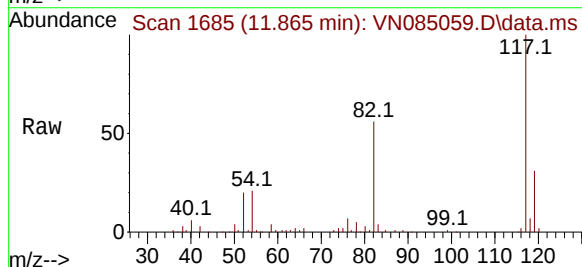
Tgt Ion:117 Resp: 110334

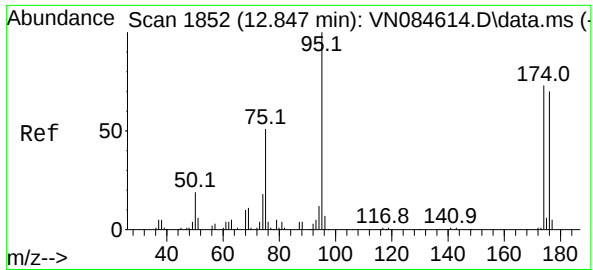
Ion Ratio Lower Upper

117 100

82 57.2 45.5 68.3

119 31.8 25.3 37.9

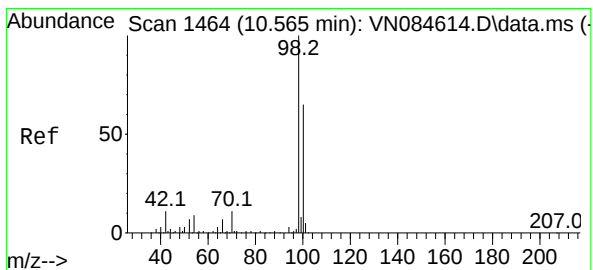
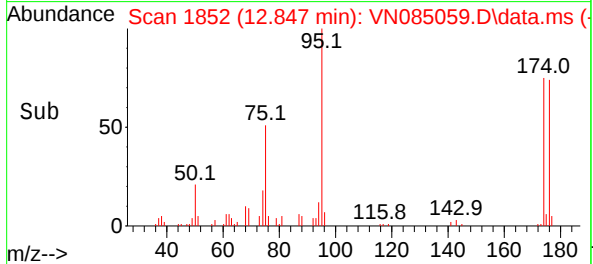
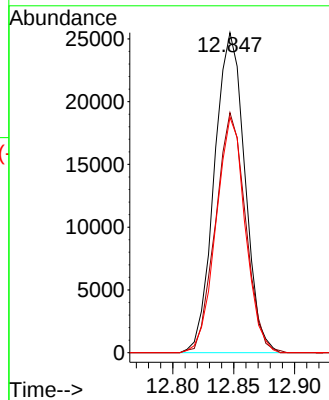
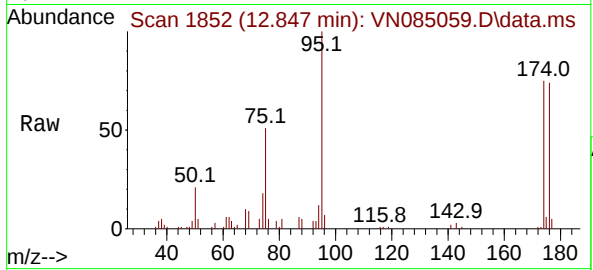




#60
4-Bromofluorobenzene
Concen: 23.329 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085059.D
Acq: 27 Nov 2024 15:07

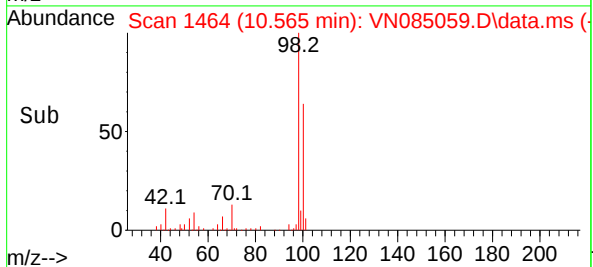
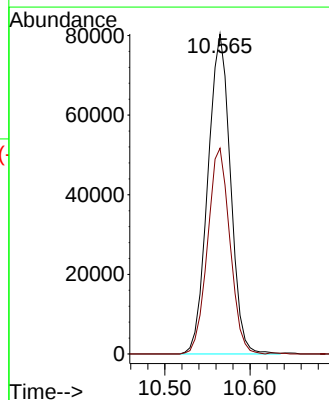
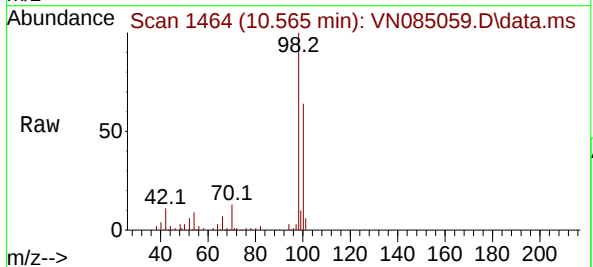
Instrument :
MSVOA_N
ClientSampleId :
14B-4

Tgt Ion: 95 Resp: 44319
Ion Ratio Lower Upper
95 100
174 74.0 59.6 89.4
176 70.7 58.6 88.0



#63
Toluene-d8
Concen: 28.297 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085059.D
Acq: 27 Nov 2024 15:07

Tgt Ion: 98 Resp: 147800
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

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

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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

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

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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N103124W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Nov 01 02:38:04 2024
 Response Via : Initial Calibration

Calibration Files

5 =VN084613.D 20 =VN084614.D 50 =VN084615.D 100 =VN084616.D 150 =VN084617.D

	Compound	5	20	50	100	150	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.762	1.842	1.727	1.647	1.746	1.745	4.00
3) M	Chloromethane	2.294	2.180	1.987	1.942	2.100	2.101	6.81
4) M	Vinyl Chloride	1.987	2.059	1.937	1.841	1.929	1.951	4.13
5) M	Bromomethane	1.026	1.087	0.943	0.927	0.969	0.990	6.66
6) M	Chloroethane	1.361	1.345	1.305	1.162	1.231	1.281	6.50
7) M	Trichlorofluorom...	3.268	3.375	3.091	2.971	3.135	3.168	4.96
8) T	Diethyl Ether	1.000	1.165	1.128	1.145	1.212	1.130	7.00
9)	1,1,2-Trichlorot...	1.776	1.938	1.786	1.675	1.777	1.790	5.27
10) M	1,1-Dichloroethene	1.685	1.840	1.711	1.699	1.807	1.748	4.00
11)	Methyl Iodide	2.378	2.507	2.375	2.318	2.437	2.403	2.99
12)	Methyl Acetate	3.900	2.690	2.326	2.302	2.408	2.725	24.75
13) M	Acrolein	0.345	0.350	0.313	0.326	0.347	0.336	4.77
14) M	Acrylonitrile	0.838	0.902	0.889	0.892	0.937	0.892	3.97
15) M	Acetone	0.231	0.235	0.223	0.223	0.233	0.229	2.34
16) M	Carbon Disulfide	5.140	5.375	5.016	4.956	5.235	5.144	3.27
17)	Allyl chloride	2.858	3.101	2.786	2.986	3.164	2.979	5.34
18) M	Methylene Chloride	2.119	2.210	1.980	1.930	2.004	2.049	5.55
19) M	trans-1,2-Dichlo...	1.819	1.905	1.810	1.776	1.854	1.833	2.67
20) T	Diisopropyl ether	5.269	6.283	6.069	5.949	6.249	5.964	6.90
21) M	1,1-Dichloroethane	3.711	3.802	3.469	3.417	3.534	3.587	4.57
22) M	cis-1,2-Dichloro...	2.121	2.237	2.172	2.141	2.269	2.188	2.89
23) M	tert-Butyl Alcohol	0.374	0.310	0.274	0.285	0.313	0.311	12.41
24) M	Methyl tert-Buty...	4.972	5.809	5.618	5.772	6.099	5.654	7.41
25) M	Chloroform	3.764	3.915	3.598	3.469	3.627	3.675	4.64
26)	Cyclohexane	2.348	2.813	2.794	2.761	2.982	2.740	8.58
27) s	1,2-Dichloroetha...	2.444	2.473	2.377	2.353	2.413	2.412	2.02
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.428	0.467	0.452	0.452	0.461	0.452	3.31
30) M	2-Butanone	0.206	0.207	0.207	0.210	0.213	0.208	1.26
31)	2,2-Dichloropropane	0.563	0.584	0.548	0.528	0.535	0.552	4.06
32) M	1,1,1-Trichloroe...	0.631	0.645	0.604	0.593	0.595	0.614	3.80
33) M	Carbon Tetrachlo...	0.545	0.536	0.517	0.504	0.517	0.524	3.16
34) M	Benzene	1.549	1.525	1.476	1.460	1.458	1.494	2.75
35)	Methacrylonitrile	0.240	0.246	0.234	0.256	0.258	0.247	4.17
36) M	1,2-Dichloroethane	0.521	0.521	0.488	0.469	0.484	0.497	4.71
37) M	Trichloroethene	0.340	0.350	0.331	0.325	0.338	0.337	2.76
38)	Methylcyclohexane	0.429	0.479	0.495	0.504	0.526	0.486	7.52
39) M	1,2-Dichloropropane	0.371	0.372	0.351	0.349	0.355	0.360	3.10
40)	Dibromomethane	0.257	0.262	0.247	0.246	0.245	0.252	3.04
41) M	Bromodichloromet...	0.566	0.547	0.526	0.526	0.531	0.539	3.22
42) M	Vinyl Acetate	0.692	0.782	0.788	0.809	0.824	0.779	6.59
43)	Ethyl Acetate	0.421	0.429	0.446	0.443	0.451	0.438	2.89
44)	Isopropyl Acetate	1.250	0.844	0.785	0.774	0.781	0.887	23.13
45) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	4.14
46)	Methyl methacrylate	0.332	0.349	0.356	0.369	0.376	0.356	4.92
47)	n-amyl Acetate	0.548	0.667	0.687	0.706	0.703	0.662	9.92
48) M	t-1,3-Dichloropr...	0.509	0.529	0.535	0.538	0.551	0.532	2.94
49) T	cis-1,3-Dichloro...	0.535	0.580	0.567	0.580	0.592	0.571	3.83
50) M	1,1,2-Trichloroe...	0.340	0.353	0.336	0.330	0.328	0.337	2.96
51)	Ethyl methacrylate	0.436	0.503	0.539	0.560	0.563	0.520	10.15
52)	1,3-Dichloropropane	0.582	0.610	0.586	0.577	0.573	0.586	2.46
53) M	Dibromochloromet...	0.378	0.400	0.401	0.397	0.398	0.395	2.47
54) M	1,2-Dibromoethane	0.334	0.357	0.337	0.339	0.339	0.341	2.63
55) M	2-Chloroethyl vi...	0.207	0.266	0.268	0.266	0.267	0.255	10.42
56) M	Bromoform	0.254	0.262	0.269	0.270	0.268	0.265	2.56

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N103124W.M

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.453	0.490	0.472	0.475	0.478	0.473	2.83
59) M	2-Hexanone	0.325	0.355	0.349	0.354	0.351	0.347	3.60
60) S	4-Bromofluoroben...	0.482	0.506	0.531	0.538	0.526	0.517	4.39
61) M	Tetrachloroethene	0.313	0.331	0.310	0.305	0.311	0.314	3.11
62) M	Toluene	1.732	1.781	1.675	1.658	1.698	1.709	2.87
63) S	Toluene-d8	1.451	1.442	1.416	1.393	1.398	1.420	1.81
64) M	Chlorobenzene	1.030	1.071	1.018	1.011	1.028	1.032	2.25
65)	1,1,1,2-Tetrachl...	0.383	0.398	0.380	0.366	0.368	0.379	3.36
66) M	Ethyl Benzene	1.596	1.824	1.829	1.836	1.894	1.796	6.42
67) M	m/p-Xylenes	0.615	0.710	0.706	0.695	0.712	0.687	5.98
68) M	o-Xylene	0.569	0.690	0.681	0.683	0.692	0.663	7.95
69) M	Styrene	0.911	1.136	1.179	1.154	1.180	1.112	10.22
70)	Isopropylbenzene	1.407	1.671	1.715	1.692	1.752	1.647	8.35
71) M	1,1,2,2-Tetrachl...	0.555	0.568	0.529	0.510	0.509	0.534	4.95
72)	1,2,3-Trichlorop...	0.460	0.527	0.429	0.429	0.434	0.456	9.11
73)	Bromobenzene	0.406	0.442	0.425	0.427	0.425	0.425	2.97
74)	n-propylbenzene	1.596	1.953	2.030	1.985	2.068	1.926	9.86
75)	2-Chlorotoluene	1.156	1.287	1.299	1.255	1.275	1.255	4.56
76)	1,3,5-Trimethylb...	1.193	1.438	1.480	1.442	1.485	1.408	8.64
77)	t-1,4-Dichloro-2...	0.152	0.191	0.193	0.196	0.203	0.187	10.86
78)	4-Chlorotoluene	1.151	1.299	1.301	1.280	1.306	1.268	5.18
79)	tert-butylbenzene	0.947	1.147	1.206	1.243	1.278	1.164	11.24
80)	1,2,4-Trimethylb...	1.129	1.449	1.513	1.494	1.515	1.420	11.60
81)	sec-Butylbenzene	1.290	1.605	1.691	1.689	1.744	1.604	11.37
82)	p-Isopropyltoluene	1.023	1.338	1.445	1.437	1.495	1.348	14.13
83) M	1,3-Dichlorobenzene	0.736	0.812	0.793	0.787	0.801	0.786	3.73
84) M	1,4-Dichlorobenzene	0.729	0.784	0.790	0.779	0.801	0.776	3.59
85)	n-Butylbenzene	0.852	1.069	1.186	1.237	1.316	1.132	15.96
86) T	Hexachloroethane	0.273	0.284	0.275	0.265	0.280	0.276	2.60
87) M	1,2-Dichlorobenzene	0.724	0.821	0.787	0.760	0.780	0.774	4.62
88)	1,2-Dibromo-3-Ch...	0.099	0.108	0.106	0.098	0.105	0.103	4.27
89)	1,2,4-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21
90)	Hexachlorobutadiene	0.160	0.168	0.163	0.158	0.174	0.165	3.93
91) M	Naphthalene	0.839	1.126	1.272	1.338	1.445	1.204	19.47
92)	1,2,3-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084613.D
 Acq On : 31 Oct 2024 12:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/01/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	31324	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165636	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	148900	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	76561	30.402	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.847	95	71798	28.004	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.333%			
63) Toluene-d8	10.565	98	216062	30.652	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9198	5.049	ug/l	96
3) Chloromethane	2.359	50	11978	5.461	ug/l	99
4) Vinyl Chloride	2.512	62	10376	5.094	ug/l #	82
5) Bromomethane	2.900	94	5354	5.179	ug/l	86
6) Chloroethane	3.071	64	7106m	5.250	ug/l	
7) Trichlorofluoromethane	3.471	101	17062	5.158	ug/l	98
8) Diethyl Ether	3.953	74	5222	4.426	ug/l	86
9) 1,1,2-Trichlorotrifluoro...	4.365	101	9273	4.960	ug/l #	39
10) 1,1-Dichloroethene	4.324	96	8797	4.819	ug/l	92
11) Methyl Iodide	4.571	142	12414	4.948	ug/l	99
12) Methyl Acetate	5.012	43	20360m	7.148	ug/l	
13) Acrolein	4.171	56	9009	25.674	ug/l	92
14) Acrylonitrile	5.718	53	21872m	23.496	ug/l	
15) Acetone	4.442	58	6033m	25.222	ug/l	
16) Carbon Disulfide	4.700	76	26836	4.996	ug/l #	94
17) Allyl chloride	5.006	41	14923m	4.845	ug/l	
18) Methylene Chloride	5.277	84	11065	5.173	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	9494m	4.962	ug/l	
20) Diisopropyl ether	6.665	45	27506	4.417	ug/l	93
21) 1,1-Dichloroethane	6.559	63	19373	5.173	ug/l	92
22) cis-1,2-Dichloroethene	7.483	96	11073	4.847	ug/l	98
23) tert-Butyl Alcohol	5.530	59	9753	30.011	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	25957	4.397	ug/l #	90
25) Chloroform	7.965	83	19651	5.122	ug/l	94
26) Cyclohexane	8.247	56	12257	4.285	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	11807	4.733	ug/l	98
30) 2-Butanone	7.483	43	28435	24.708	ug/l	100
31) 2,2-Dichloropropane	7.488	77	15547	5.105	ug/l #	90
32) 1,1,1-Trichloroethane	8.159	97	17431	5.143	ug/l #	85
33) Carbon Tetrachloride	8.359	117	15058	5.206	ug/l	92
34) Benzene	8.600	78	42762	5.186	ug/l #	88
35) Methacrylonitrile	7.777	41	6638	4.867	ug/l	87
36) 1,2-Dichloroethane	8.671	62	14384	5.245	ug/l #	95
37) Trichloroethene	9.347	130	9396m	5.051	ug/l	
38) Methylcyclohexane	9.600	83	11830	4.405	ug/l	97
39) 1,2-Dichloropropane	9.624	63	10243	5.160	ug/l	91
40) Dibromomethane	9.706	93	7103	5.115	ug/l	98
41) Bromodichloromethane	9.888	83	15629	5.250	ug/l	99
42) Vinyl Acetate	6.600	43	95572	22.218	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084613.D
 Acq On : 31 Oct 2024 12:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024

Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 01 02:19:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	11619	4.747	ug/l	97
44) Isopropyl Acetate	8.682	43	34520	7.050	ug/l #	82
45) 1,4-Dioxane	9.700	88	3084	94.340	ug/l	96
46) Methyl methacrylate	9.677	41	9158	4.654	ug/l	95
47) n-amyl Acetate	12.494	43	15131	4.138	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	14040	4.776	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	14763	4.686	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	9392	5.042	ug/l #	89
51) Ethyl methacrylate	10.871	69	12033	4.191	ug/l	92
52) 1,3-Dichloropropane	11.165	76	16055	4.966	ug/l	98
53) Dibromochloromethane	11.359	129	10423	4.782	ug/l	97
54) 1,2-Dibromoethane	11.471	107	9233	4.901	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	28637	20.343	ug/l	99
56) Bromoform	12.576	173	7007	4.796	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	56166	23.910	ug/l	99
59) 2-Hexanone	11.194	43	40278	23.416	ug/l	95
61) Tetrachloroethene	11.106	164	7756	4.977	ug/l	96
62) Toluene	10.629	91	42993	5.069	ug/l	99
64) Chlorobenzene	11.888	112	25563	4.993	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9514	5.056	ug/l	93
66) Ethyl Benzene	11.959	91	39603	4.443	ug/l	98
67) m/p-Xylenes	12.070	106	30521	8.944	ug/l	91
68) o-Xylene	12.394	106	14127	4.292	ug/l	97
69) Styrene	12.412	104	22620	4.099	ug/l	99
70) Isopropylbenzene	12.694	105	34923	4.271	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	13765	5.194	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	11412m	4.514	ug/l	
73) Bromobenzene	12.976	156	10078	4.779	ug/l	92
74) n-propylbenzene	13.035	91	39598	4.141	ug/l	97
75) 2-Chlorotoluene	13.123	91	28696	4.609	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	29615	4.239	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	3762	4.053	ug/l	93
78) 4-Chlorotoluene	13.217	91	28573	4.542	ug/l	98
79) tert-butylbenzene	13.441	119	23495	4.067	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	28024	3.976	ug/l	100
81) sec-Butylbenzene	13.612	105	32017	4.022	ug/l	99
82) p-Isopropyltoluene	13.729	119	25380	3.794	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	18270	4.684	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	18085	4.693	ug/l	93
85) n-Butylbenzene	14.053	91	21135	3.762	ug/l	99
86) Hexachloroethane	14.335	117	6782	4.957	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	17958	4.672	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2451	4.793	ug/l	90
89) 1,2,4-Trichlorobenzene	15.835	180	7643	4.084	ug/l	98
90) Hexachlorobutadiene	15.500	225	3978	4.866	ug/l	96
91) Naphthalene	15.641	128	20829	3.485	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	7643	4.084	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

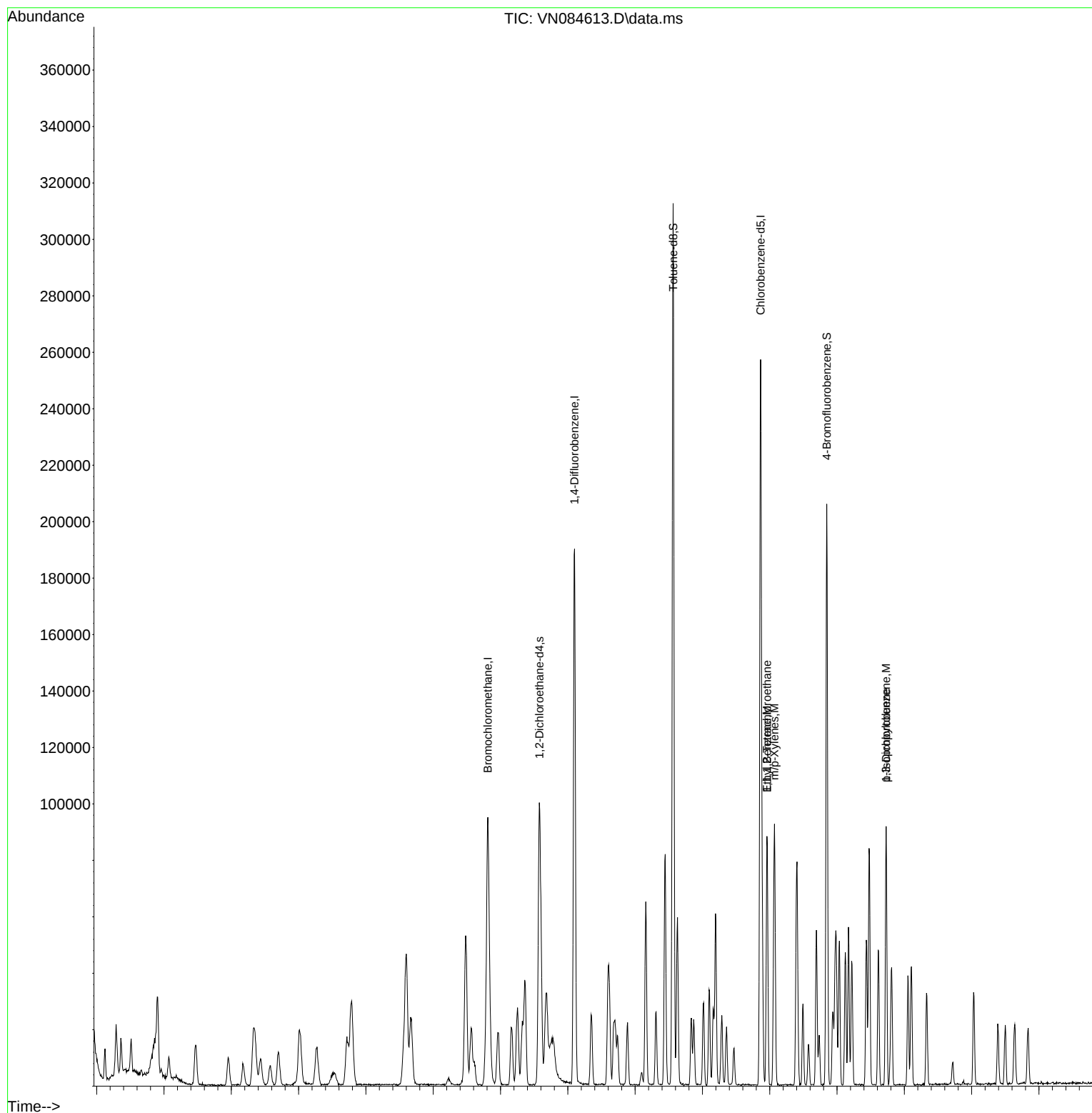
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084613.D
Acq On : 31 Oct 2024 12:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/01/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	31274	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	172181	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154107	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	77335	30.759	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.533%			
60) 4-Bromofluorobenzene	12.847	95	77916	29.364	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	222235	30.462	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.118	85	38402	21.112	ug/l	100
3) Chloromethane	2.359	50	45455	20.756	ug/l	100
4) Vinyl Chloride	2.512	62	42937	21.114	ug/l	100
5) Bromomethane	2.901	94	22663	21.957	ug/l	100
6) Chloroethane	3.059	64	28033	20.742	ug/l	100
7) Trichlorofluoromethane	3.465	101	70369	21.307	ug/l	100
8) Diethyl Ether	3.953	74	24291	20.620	ug/l	100
9) 1,1,2-Trichlorotrifluoro...	4.359	101	40406	21.649	ug/l	100
10) 1,1-Dichloroethene	4.324	96	38356	21.045	ug/l	100
11) Methyl Iodide	4.583	142	52273	20.867	ug/l	100
12) Methyl Acetate	5.018	43	56085	19.721	ug/l	100
13) Acrolein	4.177	56	36444	104.025	ug/l	100
14) Acrylonitrile	5.718	53	93989	101.129	ug/l	100
15) Acetone	4.430	58	24469	102.461	ug/l	100
16) Carbon Disulfide	4.695	76	112057	20.895	ug/l	100
17) Allyl chloride	5.006	41	64662	21.027	ug/l	100
18) Methylene Chloride	5.265	84	46076	21.573	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	39708	20.785	ug/l	100
20) Diisopropyl ether	6.671	45	130988	21.069	ug/l	100
21) 1,1-Dichloroethane	6.559	63	79269	21.202	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	46637	20.448	ug/l	100
23) tert-Butyl Alcohol	5.542	59	32351m	99.706	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	121117	20.549	ug/l	100
25) Chloroform	7.965	83	81615	21.306	ug/l	100
26) Cyclohexane	8.247	56	58646	20.535	ug/l	100
29) 1,1-Dichloropropene	8.365	75	53609	20.671	ug/l	100
30) 2-Butanone	7.483	43	118837	99.338	ug/l	100
31) 2,2-Dichloropropane	7.489	77	66980	21.158	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	74085	21.027	ug/l	100
33) Carbon Tetrachloride	8.359	117	61528	20.465	ug/l	100
34) Benzene	8.600	78	175051	20.421	ug/l	100
35) Methacrylonitrile	7.777	41	28223	19.906	ug/l	100
36) 1,2-Dichloroethane	8.665	62	59810	20.981	ug/l	100
37) Trichloroethene	9.347	130	40135	20.754	ug/l	100
38) Methylcyclohexane	9.600	83	54992	19.697	ug/l	100
39) 1,2-Dichloropropane	9.618	63	42682	20.684	ug/l	100
40) Dibromomethane	9.706	93	30074	20.833	ug/l	100
41) Bromodichloromethane	9.882	83	62781	20.287	ug/l	100
42) Vinyl Acetate	6.600	43	448664	100.337	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	49217	19.343	ug/l	98
44) Isopropyl Acetate	8.688	43	96864	19.030	ug/l	100
45) 1,4-Dioxane	9.694	88	13694	402.979	ug/l	100
46) Methyl methacrylate	9.682	41	40026	19.568	ug/l	100
47) n-amyl Acetate	12.494	43	76604	20.151	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	60713	19.868	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	66524	20.312	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	40510	20.921	ug/l	100
51) Ethyl methacrylate	10.877	69	57722	19.339	ug/l	100
52) 1,3-Dichloropropane	11.165	76	70002	20.827	ug/l	100
53) Dibromochloromethane	11.359	129	45946	20.276	ug/l	100
54) 1,2-Dibromoethane	11.465	107	40970	20.920	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	152772	104.401	ug/l	100
56) Bromoform	12.576	173	30104	19.820	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	251499	103.446	ug/l	100
59) 2-Hexanone	11.194	43	182123	102.300	ug/l	100
61) Tetrachloroethene	11.100	164	33984	21.071	ug/l	100
62) Toluene	10.630	91	182960	20.845	ug/l	100
64) Chlorobenzene	11.888	112	110008	20.761	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40878	20.991	ug/l	100
66) Ethyl Benzene	11.965	91	187374	20.313	ug/l	100
67) m/p-Xylenes	12.071	106	145866	41.303	ug/l	100
68) o-Xylene	12.400	106	70893	20.810	ug/l	100
69) Styrene	12.412	104	116660	20.424	ug/l	100
70) Isopropylbenzene	12.694	105	171676	20.286	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	58304	21.256	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	54117m	20.681	ug/l	
73) Bromobenzene	12.976	156	45364	20.784	ug/l	100
74) n-propylbenzene	13.035	91	200691	20.280	ug/l	100
75) 2-Chlorotoluene	13.123	91	132203	20.515	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	147751	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19637	20.442	ug/l	100
78) 4-Chlorotoluene	13.218	91	133430	20.493	ug/l	100
79) tert-butylbenzene	13.435	119	117804	19.701	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	148836	20.404	ug/l	100
81) sec-Butylbenzene	13.612	105	164903	20.014	ug/l	100
82) p-Isopropyltoluene	13.729	119	137483	19.858	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	83438	20.670	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	80500	20.182	ug/l	100
85) n-Butylbenzene	14.053	91	109807	18.885	ug/l	100
86) Hexachloroethane	14.329	117	29191	20.617	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	84342	21.203	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11061	20.899	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100
90) Hexachlorobutadiene	15.500	225	17295	20.443	ug/l	100
91) Naphthalene	15.641	128	115679	18.702	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

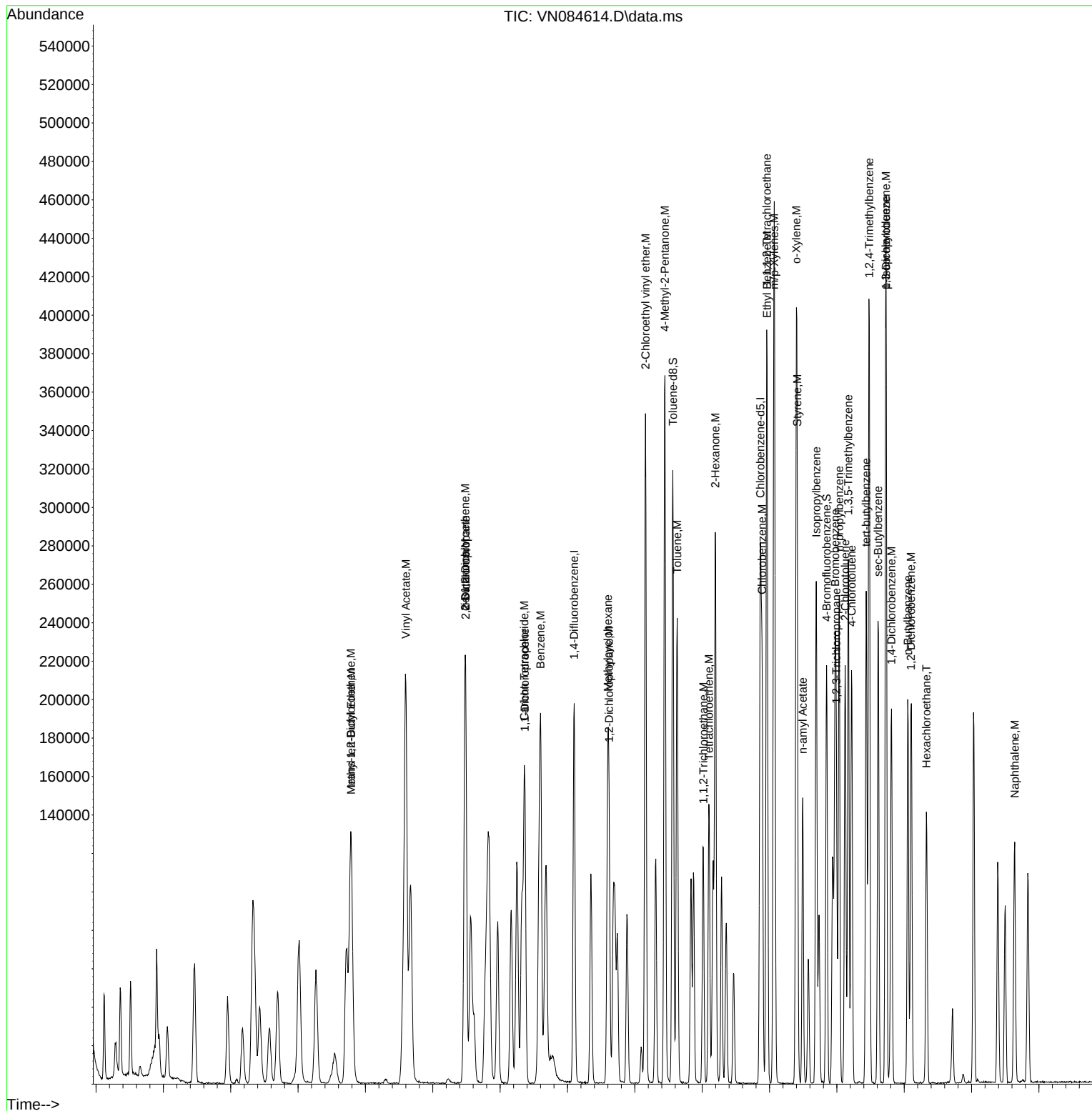
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Data File : VN084614.D  
Acq On    : 31 Oct 2024   12:32  
Operator  : JC\MD  
Sample    : VSTDICCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084615.D
 Acq On : 31 Oct 2024 12:56
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	32918	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176826	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164720	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78237	29.563	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.533%		
60) 4-Bromofluorobenzene	12.847	95	87434	30.828	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.767%		
63) Toluene-d8	10.565	98	233304	29.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	94735	49.481	ug/l	96
3) Chloromethane	2.359	50	109029	47.299	ug/l	98
4) Vinyl Chloride	2.512	62	106283	49.654	ug/l	97
5) Bromomethane	2.901	94	51725	47.610	ug/l	100
6) Chloroethane	3.077	64	71616m	50.344	ug/l	
7) Trichlorofluoromethane	3.471	101	169605	48.790	ug/l	97
8) Diethyl Ether	3.953	74	61891	49.913	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.359	101	97991	49.880	ug/l	99
10) 1,1-Dichloroethene	4.324	96	93892	48.943	ug/l	95
11) Methyl Iodide	4.583	142	130322	49.426	ug/l	100
12) Methyl Acetate	5.018	43	127594	42.624	ug/l	94
13) Acrolein	4.171	56	85754	232.550	ug/l	98
14) Acrylonitrile	5.712	53	243950	249.373	ug/l	99
15) Acetone	4.430	58	61279	243.784	ug/l	91
16) Carbon Disulfide	4.700	76	275193	48.752	ug/l	99
17) Allyl chloride	5.012	41	152844	47.220	ug/l	98
18) Methylene Chloride	5.265	84	108652	48.332	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	99291	49.378	ug/l	91
20) Diisopropyl ether	6.671	45	332986	50.885	ug/l	98
21) 1,1-Dichloroethane	6.565	63	190325	48.363	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	119146	49.630	ug/l	94
23) tert-Butyl Alcohol	5.542	59	75243	220.317	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	308206	49.680	ug/l	99
25) Chloroform	7.959	83	197402	48.959	ug/l	94
26) Cyclohexane	8.253	56	153309	51.000	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	133196	50.010	ug/l	100
30) 2-Butanone	7.477	43	305143	248.373	ug/l	99
31) 2,2-Dichloropropane	7.483	77	161607	49.708	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	178128	49.229	ug/l	99
33) Carbon Tetrachloride	8.359	117	152324	49.334	ug/l	98
34) Benzene	8.600	78	434965	49.409	ug/l	97
35) Methacrylonitrile	7.777	41	69021	47.401	ug/l	97
36) 1,2-Dichloroethane	8.665	62	143921	49.161	ug/l	100
37) Trichloroethene	9.353	130	97539	49.114	ug/l	99
38) Methylcyclohexane	9.600	83	145824	50.859	ug/l	98
39) 1,2-Dichloropropane	9.618	63	103300	48.746	ug/l	97
40) Dibromomethane	9.706	93	72848	49.139	ug/l	99
41) Bromodichloromethane	9.882	83	154994	48.769	ug/l	99
42) Vinyl Acetate	6.600	43	1161725	252.978	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084615.D
 Acq On : 31 Oct 2024 12:56
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	131344	50.265	ug/l	98
44) Isopropyl Acetate	8.688	43	231400	44.267	ug/l	98
45) 1,4-Dioxane	9.694	88	33980	973.675	ug/l #	89
46) Methyl methacrylate	9.677	41	104945	49.957	ug/l	96
47) n-amyl Acetate	12.494	43	202564	51.886	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	157614	50.224	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	167077	49.675	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	98990	49.780	ug/l	96
51) Ethyl methacrylate	10.871	69	158738	51.786	ug/l	96
52) 1,3-Dichloropropane	11.159	76	172748	50.047	ug/l	99
53) Dibromochloromethane	11.359	129	118100	50.750	ug/l	97
54) 1,2-Dibromoethane	11.465	107	99236	49.341	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	395250	263.010	ug/l	99
56) Bromoform	12.576	173	79210	50.781	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	647306	249.093	ug/l	98
59) 2-Hexanone	11.194	43	478961	251.701	ug/l	99
61) Tetrachloroethene	11.100	164	85090	49.359	ug/l	98
62) Toluene	10.629	91	459711	49.000	ug/l	99
64) Chlorobenzene	11.888	112	279544	49.357	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	104199	50.060	ug/l	98
66) Ethyl Benzene	11.965	91	502126	50.927	ug/l	94
67) m/p-Xylenes	12.071	106	387469	102.646	ug/l	98
68) o-Xylene	12.394	106	187021	51.361	ug/l	98
69) Styrene	12.412	104	323595	53.002	ug/l	98
70) Isopropylbenzene	12.694	105	470823	52.050	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	145223	49.532	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	117853m	42.135	ug/l	
73) Bromobenzene	12.976	156	116686	50.015	ug/l	97
74) n-propylbenzene	13.035	91	557232	52.681	ug/l	99
75) 2-Chlorotoluene	13.123	91	356739	51.790	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	406282	52.568	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	53054	51.671	ug/l	86
78) 4-Chlorotoluene	13.218	91	357227	51.329	ug/l	100
79) tert-butylbenzene	13.435	119	331066	51.799	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	415493	53.289	ug/l	98
81) sec-Butylbenzene	13.618	105	464362	52.727	ug/l	100
82) p-Isopropyltoluene	13.729	119	396709	53.609	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	217624	50.438	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	216965	50.890	ug/l	97
85) n-Butylbenzene	14.053	91	325553	52.381	ug/l	99
86) Hexachloroethane	14.329	117	75612	49.961	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	215946	50.790	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	28965	51.201	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	104664	50.558	ug/l	96
90) Hexachlorobutadiene	15.494	225	44832	49.577	ug/l	95
91) Naphthalene	15.641	128	349297	52.834	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	104664	50.558	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

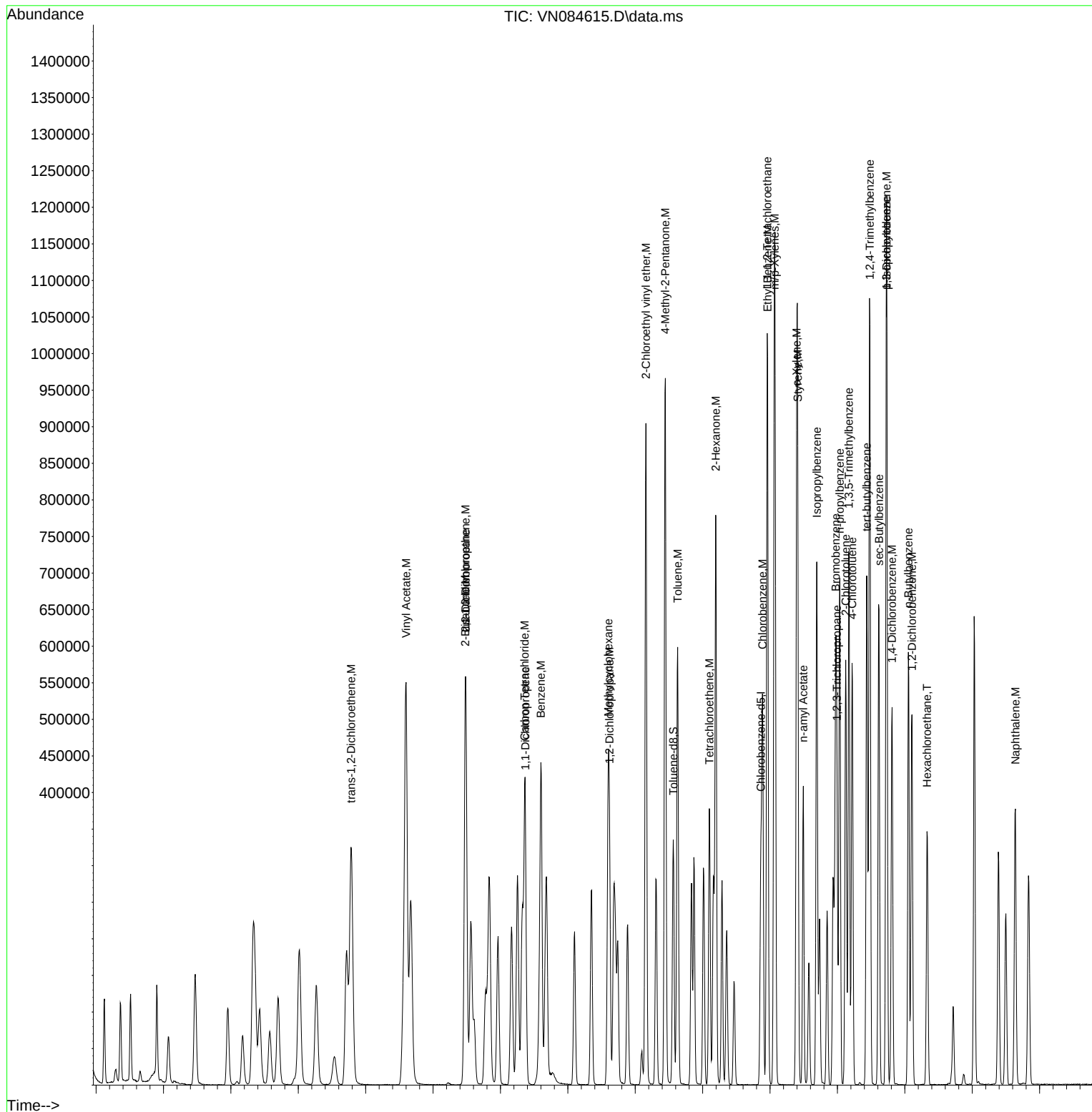
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084615.D
Acq On : 31 Oct 2024 12:56
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084616.D
 Acq On : 31 Oct 2024 13:20
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 01 02:19:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	34742	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185533	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	172801	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81745	29.267	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.567%		
60) 4-Bromofluorobenzene	12.847	95	92972	31.247	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.167%		
63) Toluene-d8	10.565	98	240739	29.429	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.100%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.118	85	190784	94.416	ug/l	96
3) Chloromethane	2.359	50	224931	92.457	ug/l	96
4) Vinyl Chloride	2.512	62	213170	94.361	ug/l	96
5) Bromomethane	2.901	94	107304	93.582	ug/l	99
6) Chloroethane	3.059	64	134554	89.622	ug/l	91
7) Trichlorofluoromethane	3.465	101	344065	93.780	ug/l	96
8) Diethyl Ether	3.953	74	132542	101.279	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.348	101	193932	93.533	ug/l	100
10) 1,1-Dichloroethene	4.324	96	196748	97.174	ug/l	96
11) Methyl Iodide	4.577	142	268385	96.444	ug/l	93
12) Methyl Acetate	5.024	43	266611	84.389	ug/l	98
13) Acrolein	4.171	56	188911	485.398	ug/l	99
14) Acrylonitrile	5.712	53	516678	500.435	ug/l	98
15) Acetone	4.424	58	129317	487.448	ug/l	84
16) Carbon Disulfide	4.700	76	573917	96.334	ug/l	97
17) Allyl chloride	5.006	41	345769	101.215	ug/l	96
18) Methylene Chloride	5.271	84	223525	94.210	ug/l	99
19) trans-1,2-Dichloroethene	5.777	96	205660	96.906	ug/l	91
20) Diisopropyl ether	6.671	45	688942	99.753	ug/l	96
21) 1,1-Dichloroethane	6.565	63	395669	95.263	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	247895	97.839	ug/l	95
23) tert-Butyl Alcohol	5.547	59	164832	457.302	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	668387	102.082	ug/l	98
25) Chloroform	7.965	83	401691	94.396	ug/l	99
26) Cyclohexane	8.253	56	319727	100.777	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	279360	99.967	ug/l	99
30) 2-Butanone	7.483	43	647906	502.619	ug/l	99
31) 2,2-Dichloropropane	7.488	77	326433	95.693	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	366838	96.624	ug/l	99
33) Carbon Tetrachloride	8.359	117	311893	96.275	ug/l	99
34) Benzene	8.600	78	902770	97.735	ug/l	95
35) Methacrylonitrile	7.777	41	158460	103.718	ug/l	97
36) 1,2-Dichloroethane	8.665	62	289900	94.377	ug/l	99
37) Trichloroethene	9.347	130	201181	96.547	ug/l	94
38) Methylcyclohexane	9.600	83	311539	103.557	ug/l	97
39) 1,2-Dichloropropane	9.618	63	215746	97.029	ug/l	92
40) Dibromomethane	9.706	93	151914	97.663	ug/l	99
41) Bromodichloromethane	9.888	83	325039	97.474	ug/l	99
42) Vinyl Acetate	6.600	43	2500453	518.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084616.D
 Acq On : 31 Oct 2024 13:20
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	274207	100.013	ug/l	98
44) Isopropyl Acetate	8.688	43	478812	87.298	ug/l	96
45) 1,4-Dioxane	9.694	88	75558	2063.461	ug/l	96
46) Methyl methacrylate	9.682	41	228239	103.551	ug/l	94
47) n-amyl Acetate	12.494	43	436801	106.634	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	332996	101.131	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	358906	101.702	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	204253	97.894	ug/l	98
51) Ethyl methacrylate	10.871	69	346376	107.698	ug/l	96
52) 1,3-Dichloropropane	11.159	76	357116	98.605	ug/l	99
53) Dibromochloromethane	11.359	129	245721	100.636	ug/l	97
54) 1,2-Dibromoethane	11.471	107	209631	99.338	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	822490	521.622	ug/l	99
56) Bromoform	12.576	173	167239	102.184	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1367142	501.494	ug/l	99
59) 2-Hexanone	11.194	43	1018919	510.417	ug/l	98
61) Tetrachloroethene	11.100	164	175966	97.300	ug/l	99
62) Toluene	10.629	91	954854	97.017	ug/l	98
64) Chlorobenzene	11.888	112	582322	98.008	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	211092	96.671	ug/l	99
66) Ethyl Benzene	11.965	91	1057324	102.222	ug/l	97
67) m/p-Xylenes	12.071	106	800698	202.196	ug/l	99
68) o-Xylene	12.394	106	393457	103.001	ug/l	98
69) Styrene	12.412	104	664652	103.773	ug/l	99
70) Isopropylbenzene	12.694	105	974870	102.732	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	293813	95.526	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	247347m	84.297	ug/l	
73) Bromobenzene	12.976	156	245959	100.496	ug/l	98
74) n-propylbenzene	13.035	91	1143491	103.052	ug/l	99
75) 2-Chlorotoluene	13.123	91	722984	100.052	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	830495	102.432	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	112802	104.723	ug/l	91
78) 4-Chlorotoluene	13.223	91	737525	101.018	ug/l	99
79) tert-butylbenzene	13.435	119	716107	106.804	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	860667	105.223	ug/l	99
81) sec-Butylbenzene	13.617	105	973025	105.317	ug/l	100
82) p-Isopropyltoluene	13.729	119	827966	106.655	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	453157	100.115	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	448828	100.351	ug/l	99
85) n-Butylbenzene	14.053	91	712477	109.276	ug/l	99
86) Hexachloroethane	14.329	117	152797	96.241	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	438040	98.208	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	56385	95.009	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96
90) Hexachlorobutadiene	15.500	225	90825	95.741	ug/l	95
91) Naphthalene	15.635	128	770611	111.109	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

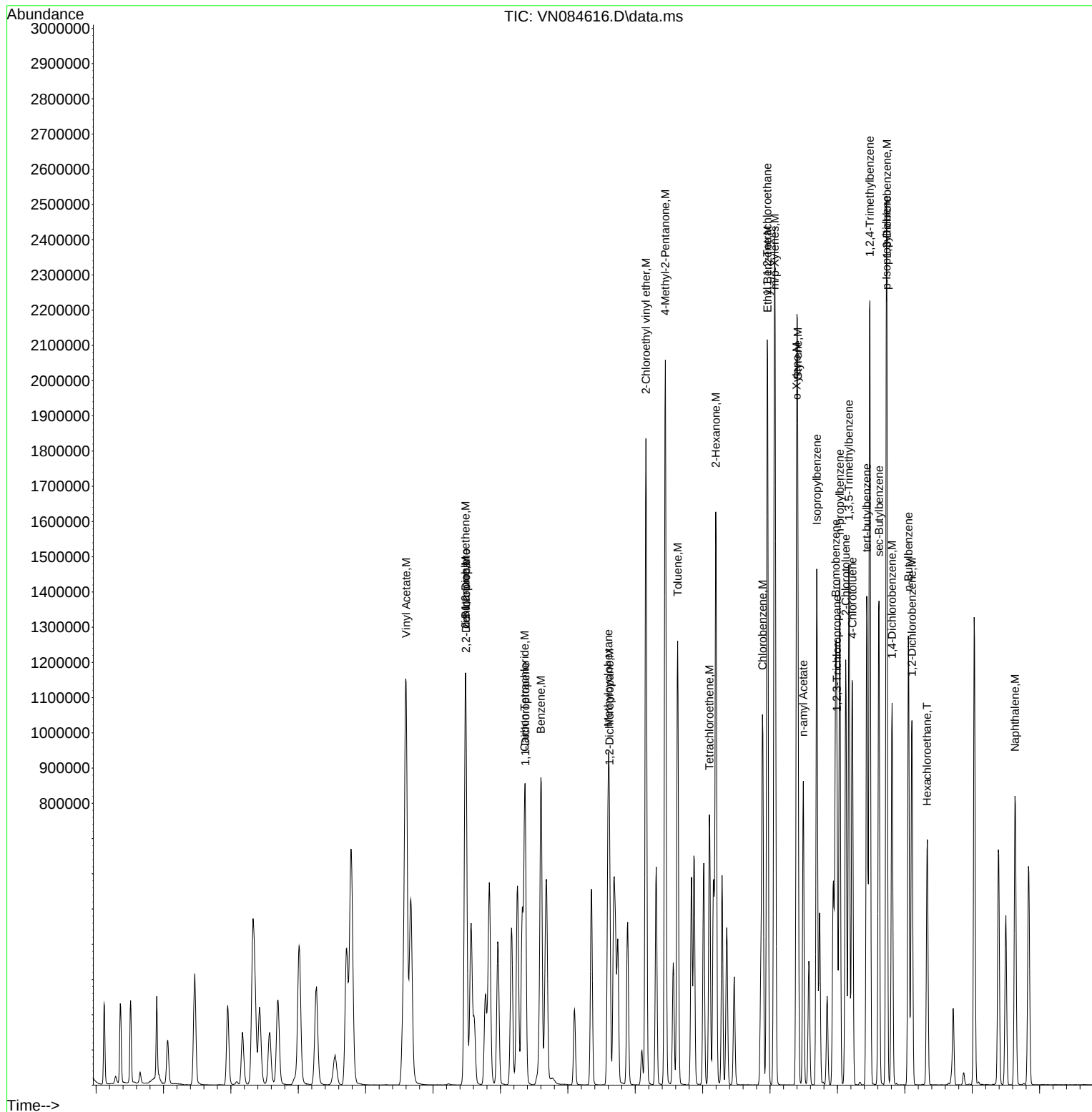
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Data File : VN084616.D  
Acq On    : 31 Oct 2024  13:20  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084617.D
 Acq On : 31 Oct 2024 13:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 01 02:24:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	34315	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	189928	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	174515	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82785	30.008	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.033%			
60) 4-Bromofluorobenzene	12.847	95	91818	30.557	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.867%			
63) Toluene-d8	10.565	98	244038	29.539	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	299645	150.135	ug/l	94
3) Chloromethane	2.359	50	360263	149.927	ug/l	100
4) Vinyl Chloride	2.512	62	330947	148.318	ug/l	95
5) Bromomethane	2.900	94	166205	146.755	ug/l	99
6) Chloroethane	3.053	64	211245	142.454	ug/l	90
7) Trichlorofluoromethane	3.459	101	537825	148.417	ug/l	99
8) Diethyl Ether	3.953	74	208008	160.923	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.347	101	304904	148.885	ug/l	100
10) 1,1-Dichloroethene	4.324	96	309990	155.009	ug/l	93
11) Methyl Iodide	4.577	142	418106	152.116	ug/l	93
12) Methyl Acetate	5.018	43	413207	132.418	ug/l	97
13) Acrolein	4.171	56	297469	773.843	ug/l	98
14) Acrylonitrile	5.718	53	803457	787.881	ug/l	98
15) Acetone	4.424	58	199728	762.223	ug/l	94
16) Carbon Disulfide	4.694	76	898255	152.651	ug/l	98
17) Allyl chloride	5.012	41	542863	160.886	ug/l	96
18) Methylene Chloride	5.265	84	343819	146.714	ug/l	95
19) trans-1,2-Dichloroethene	5.777	96	318103	151.754	ug/l	89
20) Diisopropyl ether	6.671	45	1072240	157.183	ug/l	98
21) 1,1-Dichloroethane	6.559	63	606359	147.807	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	389337	155.576	ug/l	94
23) tert-Butyl Alcohol	5.553	59	268783	754.978	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	1046401	161.805	ug/l	98
25) Chloroform	7.965	83	622385	148.078	ug/l	96
26) Cyclohexane	8.253	56	511647	163.276	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	437707	153.006	ug/l	100
30) 2-Butanone	7.482	43	1009048	764.664	ug/l	98
31) 2,2-Dichloropropane	7.488	77	508098	145.502	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	565049	145.389	ug/l	99
33) Carbon Tetrachloride	8.359	117	490498	147.903	ug/l	98
34) Benzene	8.600	78	1384757	146.447	ug/l	96
35) Methacrylonitrile	7.777	41	245428	156.925	ug/l	99
36) 1,2-Dichloroethane	8.665	62	459837	146.236	ug/l	99
37) Trichloroethene	9.347	130	321371	150.657	ug/l	93
38) Methylcyclohexane	9.600	83	499572	162.217	ug/l	97
39) 1,2-Dichloropropane	9.618	63	337522	148.284	ug/l	96
40) Dibromomethane	9.706	93	233108	146.393	ug/l	99
41) Bromodichloromethane	9.888	83	504647	147.833	ug/l	98
42) Vinyl Acetate	6.600	43	3914346	793.588	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084617.D
 Acq On : 31 Oct 2024 13:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:24:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	428446	152.653	ug/l	97
44) Isopropyl Acetate	8.688	43	741325	132.033	ug/l	96
45) 1,4-Dioxane	9.700	88	117373	3131.238	ug/l	96
46) Methyl methacrylate	9.682	41	357456	158.423	ug/l	98
47) n-amyl Acetate	12.494	43	667282	159.131	ug/l	94
48) t-1,3-Dichloropropene	10.835	75	523588	155.334	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	561762	155.501	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	311081	145.645	ug/l	95
51) Ethyl methacrylate	10.876	69	534438	162.326	ug/l	96
52) 1,3-Dichloropropane	11.165	76	544181	146.779	ug/l	99
53) Dibromochloromethane	11.359	129	378123	151.277	ug/l	98
54) 1,2-Dibromoethane	11.470	107	321983	149.047	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1267478	785.232	ug/l	99
56) Bromoform	12.576	173	254436	151.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	2085089	757.339	ug/l	98
59) 2-Hexanone	11.200	43	1531300	759.555	ug/l	98
61) Tetrachloroethene	11.100	164	271458	148.628	ug/l	98
62) Toluene	10.629	91	1481581	149.056	ug/l	98
64) Chlorobenzene	11.888	112	896579	149.418	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	321277	145.687	ug/l	100
66) Ethyl Benzene	11.965	91	1652923	158.236	ug/l	96
67) m/p-Xylenes	12.070	106	1242416	310.660	ug/l	100
68) o-Xylene	12.400	106	604062	156.582	ug/l	98
69) Styrene	12.412	104	1029762	159.199	ug/l	99
70) Isopropylbenzene	12.694	105	1528377	159.480	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	443836	142.885	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	379116m	127.935	ug/l	
73) Bromobenzene	12.982	156	370688	149.971	ug/l	97
74) n-propylbenzene	13.035	91	1804610	161.034	ug/l	99
75) 2-Chlorotoluene	13.123	91	1112415	152.433	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	1295565	158.223	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	177307	162.992	ug/l	90
78) 4-Chlorotoluene	13.223	91	1139441	154.535	ug/l	100
79) tert-butylbenzene	13.435	119	1114831	164.638	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	1321571	159.986	ug/l	98
81) sec-Butylbenzene	13.617	105	1521726	163.089	ug/l	100
82) p-Isopropyltoluene	13.729	119	1304826	166.431	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	699236	152.963	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	698605	154.663	ug/l	99
85) n-Butylbenzene	14.053	91	1148718	174.453	ug/l	99
86) Hexachloroethane	14.335	117	244372	152.408	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	680730	151.120	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	91914	153.355	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	369695	168.557	ug/l	96
90) Hexachlorobutadiene	15.500	225	151702	158.343	ug/l	94
91) Naphthalene	15.641	128	1260875	180.011	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	369695	168.557	ug/l	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

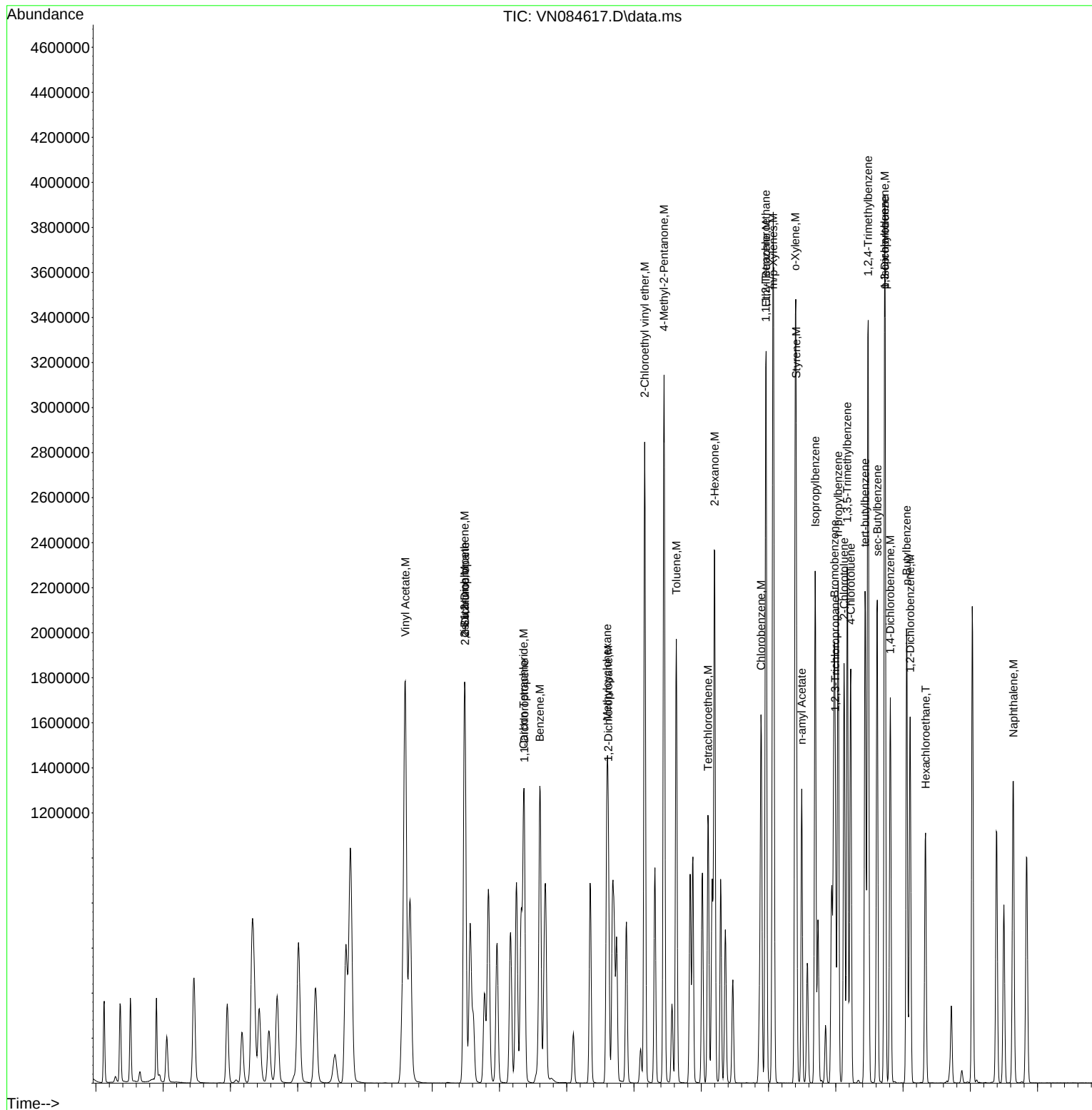
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084617.D
Acq On : 31 Oct 2024 13:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:24:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103124

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	33219	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	181690	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170699	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	78518	29.401	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.000%		
60) 4-Bromofluorobenzene	12.847	95	87996	29.939	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	10.565	98	235463	29.138	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.133%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39007	20.189	ug/l	96
3) Chloromethane	2.359	50	45924	19.742	ug/l	96
4) Vinyl Chloride	2.512	62	43634	20.200	ug/l	96
5) Bromomethane	2.900	94	21634	19.733	ug/l	100
6) Chloroethane	3.077	64	27349	19.284	ug/l #	89
7) Trichlorofluoromethane	3.471	101	70373	20.061	ug/l	100
8) Diethyl Ether	3.953	74	26411	21.107	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.353	101	41161	20.762	ug/l	98
10) 1,1-Dichloroethene	4.330	96	38591	19.934	ug/l	94
11) Methyl Iodide	4.577	142	52797	19.843	ug/l	92
12) Methyl Acetate	5.018	43	54572	18.084	ug/l	98
13) Acrolein	4.171	56	36257	97.432	ug/l	97
14) Acrylonitrile	5.718	53	99433	100.722	ug/l	97
15) Acetone	4.430	58	26069	102.773	ug/l	95
16) Carbon Disulfide	4.700	76	112949	19.828	ug/l	98
17) Allyl chloride	5.012	41	62388	18.913	ug/l	93
18) Methylene Chloride	5.265	84	43401	19.131	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	39248	19.342	ug/l	94
20) Diisopropyl ether	6.665	45	129663	19.635	ug/l	97
21) 1,1-Dichloroethane	6.565	63	76784	19.334	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	46989	19.396	ug/l	97
23) tert-Butyl Alcohol	5.541	59	37052	107.508	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	122468	19.562	ug/l	100
25) Chloroform	7.965	83	79286	19.486	ug/l	97
26) Cyclohexane	8.253	56	62127	20.480	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	53477	19.541	ug/l	99
30) 2-Butanone	7.482	43	126487	100.199	ug/l	100
31) 2,2-Dichloropropane	7.488	77	66622	19.943	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	71786	19.308	ug/l	99
33) Carbon Tetrachloride	8.365	117	62252	19.622	ug/l	94
34) Benzene	8.606	78	173675	19.200	ug/l #	95
35) Methacrylonitrile	7.777	41	29897	19.983	ug/l	98
36) 1,2-Dichloroethane	8.671	62	57389	19.078	ug/l	99
37) Trichloroethene	9.353	130	40639	19.915	ug/l	85
38) Methylcyclohexane	9.600	83	57621	19.559	ug/l	97
39) 1,2-Dichloropropane	9.623	63	41855	19.222	ug/l	90
40) Dibromomethane	9.706	93	29763	19.539	ug/l	97
41) Bromodichloromethane	9.882	83	63336	19.395	ug/l	94
42) Vinyl Acetate	6.600	43	471501	99.926	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103124

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 01 02:38:04 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	52600	19.830	ug/l	96
44) Isopropyl Acetate	8.688	43	98265	18.295	ug/l	100
45) 1,4-Dioxane	9.694	88	14685	409.524	ug/l	94
46) Methyl methacrylate	9.682	41	42350	19.620	ug/l	91
47) n-amyl Acetate	12.494	43	79469	19.811	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	63042	19.551	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	67490	19.529	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	40428	19.786	ug/l	92
51) Ethyl methacrylate	10.870	69	61356	19.481	ug/l	96
52) 1,3-Dichloropropane	11.165	76	68595	19.341	ug/l	98
53) Dibromochloromethane	11.359	129	47080	19.690	ug/l	98
54) 1,2-Dibromoethane	11.465	107	40000	19.356	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	158206	102.456	ug/l	99
56) Bromoform	12.582	173	31892	19.898	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	269754	100.170	ug/l	98
59) 2-Hexanone	11.194	43	196485	99.639	ug/l	99
61) Tetrachloroethene	11.100	164	34173	19.129	ug/l	94
62) Toluene	10.629	91	184150	18.941	ug/l	99
64) Chlorobenzene	11.894	112	114563	19.519	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	40847	18.937	ug/l	97
66) Ethyl Benzene	11.965	91	193657	18.953	ug/l	95
67) m/p-Xylenes	12.070	106	153096	39.137	ug/l	98
68) o-Xylene	12.400	106	73335	19.434	ug/l	95
69) Styrene	12.412	104	124645	19.701	ug/l	99
70) Isopropylbenzene	12.694	105	188026	20.058	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	58559	19.273	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	55357m	21.337	ug/l	
73) Bromobenzene	12.982	156	46221	19.118	ug/l	94
74) n-propylbenzene	13.035	91	217666	19.858	ug/l	100
75) 2-Chlorotoluene	13.123	91	141697	19.851	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	160297	20.014	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20549	19.312	ug/l	95
78) 4-Chlorotoluene	13.217	91	141472	19.616	ug/l	99
79) tert-butylbenzene	13.441	119	134979	20.379	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	160493	19.863	ug/l	99
81) sec-Butylbenzene	13.617	105	179829	19.704	ug/l	100
82) p-Isopropyltoluene	13.729	119	148622	19.381	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	86431	19.330	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	87143	19.724	ug/l	97
85) n-Butylbenzene	14.053	91	124802	19.377	ug/l	99
86) Hexachloroethane	14.335	117	30122	19.206	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	86578	19.650	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12268	20.926	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98
90) Hexachlorobutadiene	15.500	225	19143	20.428	ug/l	96
91) Naphthalene	15.641	128	132615	19.356	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

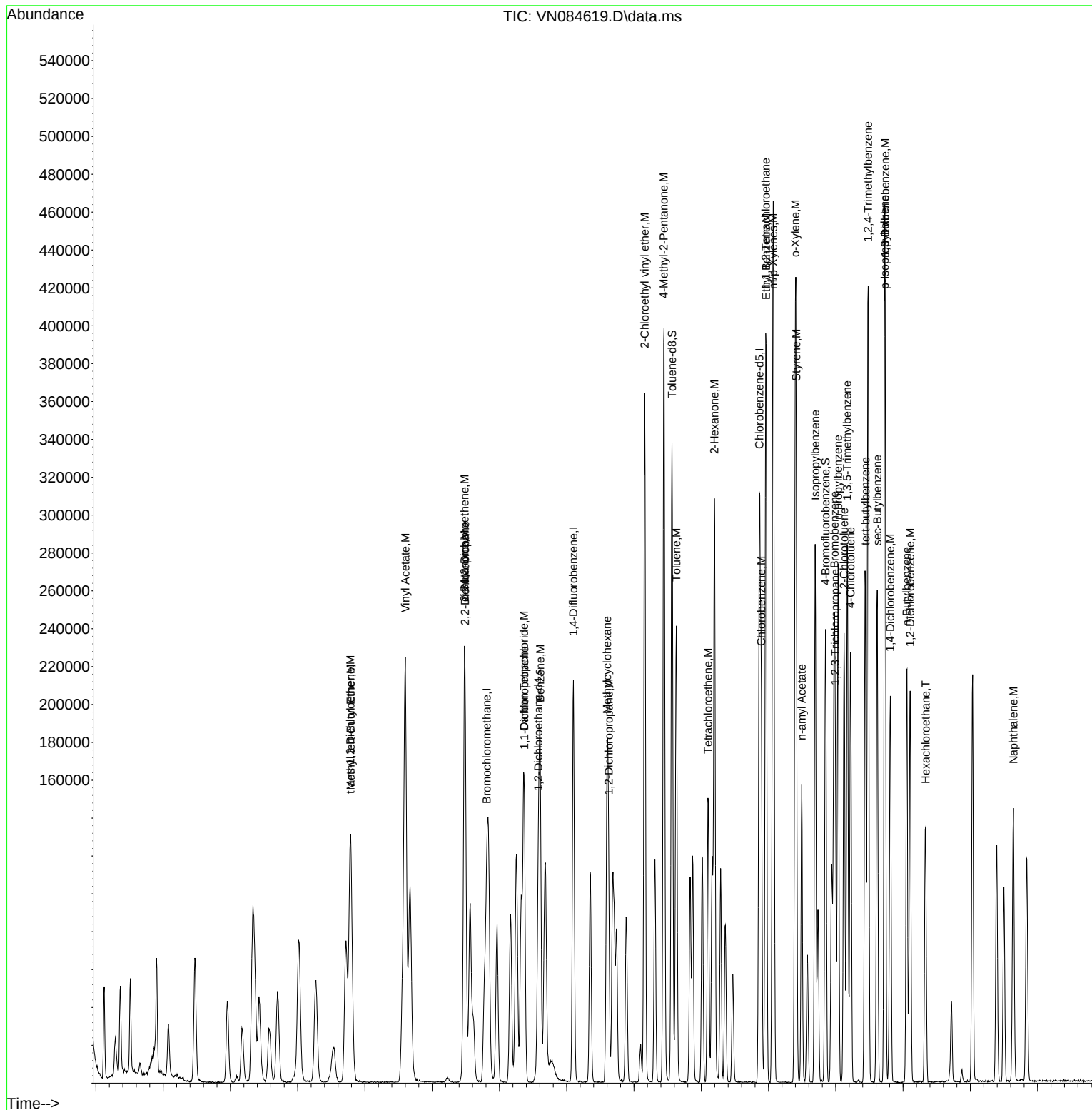
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	106	0.00
2 M	Dichlorodifluoromethane	1.745	1.761	-0.9	102	0.00
3 M	Chloromethane	2.101	2.074	1.3	101	0.00
4 M	Vinyl Chloride	1.951	1.970	-1.0	102	0.00
5 M	Bromomethane	0.990	0.977	1.3	95	0.00
6 M	Chloroethane	1.281	1.235	3.6	98	0.02
7 M	Trichlorofluoromethane	3.168	3.178	-0.3	100	0.00
8 T	Diethyl Ether	1.130	1.193	-5.6	109	0.00
9	1,1,2-Trichlorotrifluoroeth	1.790	1.859	-3.9	102	0.00
10 M	1,1-Dichloroethene	1.748	1.743	0.3	101	0.00
11	Methyl Iodide	2.403	2.384	0.8	101	0.00
12	Methyl Acetate	2.725	2.464	9.6	97	0.00
13 M	Acrolein	0.336	0.327	2.7	99	0.00
14 M	Acrylonitrile	0.892	0.898	-0.7	106	0.00
15 M	Acetone	0.229	0.235	-2.6	107	0.00
16 M	Carbon Disulfide	5.144	5.100	0.9	101	0.00
17	Allyl chloride	2.979	2.817	5.4	96	0.00
18 M	Methylene Chloride	2.049	1.960	4.3	94	0.00
19 M	trans-1,2-Dichloroethene	1.833	1.772	3.3	99	0.00
20 T	Diisopropyl ether	5.964	5.855	1.8	99	0.00
21 M	1,1-Dichloroethane	3.587	3.467	3.3	97	0.00
22 M	cis-1,2-Dichloroethene	2.188	2.122	3.0	101	0.00
23 M	tert-Butyl Alcohol	0.311	0.335	-7.7	115	0.00
24 M	Methyl tert-Butyl Ether	5.654	5.530	2.2	101	0.00
25 M	Chloroform	3.675	3.580	2.6	97	0.00
26	Cyclohexane	2.740	2.805	-2.4	106	0.00
27 s	1,2-Dichloroethane-d4	2.412	2.364	2.0	102	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
29	1,1-Dichloropropene	0.452	0.441	2.4	100	0.00
30 M	2-Butanone	0.208	0.209	-0.5	106	0.00
31	2,2-Dichloropropane	0.552	0.550	0.4	99	0.00
32 M	1,1,1-Trichloroethane	0.614	0.593	3.4	97	0.00
33 M	Carbon Tetrachloride	0.524	0.514	1.9	101	0.00
34 M	Benzene	1.494	1.434	4.0	99	0.00
35	Methacrylonitrile	0.247	0.247	0.0	106	0.00
36 M	1,2-Dichloroethane	0.497	0.474	4.6	96	0.00
37 M	Trichloroethene	0.337	0.336	0.3	101	0.00
38	Methylcyclohexane	0.486	0.476	2.1	105	0.00
39 M	1,2-Dichloropropane	0.360	0.346	3.9	98	0.00
40	Dibromomethane	0.252	0.246	2.4	99	0.00
41 M	Bromodichloromethane	0.539	0.523	3.0	101	0.00
42 M	Vinyl Acetate	0.779	0.779	0.0	105	0.00
43	Ethyl Acetate	0.438	0.434	0.9	107	0.00
44	Isopropyl Acetate	0.887	0.811	8.6	101	0.00
45 T	1,4-Dioxane	0.006	0.006	0.0	107	0.00
46	Methyl methacrylate	0.356	0.350	1.7	106	0.00
47	n-amyl Acetate	0.662	0.656	0.9	104	0.00
48 M	t-1,3-Dichloropropene	0.532	0.520	2.3	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.571	0.557	2.5	101	0.00
50 M	1,1,2-Trichloroethane	0.337	0.334	0.9	100	0.00
51	Ethyl methacrylate	0.520	0.507	2.5	106	0.00
52	1,3-Dichloropropane	0.586	0.566	3.4	98	0.00
53 M	Dibromochloromethane	0.395	0.389	1.5	102	0.00
54 M	1,2-Dibromoethane	0.341	0.330	3.2	98	0.00
55 M	2-Chloroethyl vinyl ether	0.255	0.261	-2.4	104	0.00
56 M	Bromoform	0.265	0.263	0.8	106	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
58 M	4-Methyl-2-Pentanone	0.473	0.474	-0.2	107	0.00
59 M	2-Hexanone	0.347	0.345	0.6	108	0.00
60 S	4-Bromofluorobenzene	0.517	0.516	0.2	113	0.00
61 M	Tetrachloroethene	0.314	0.300	4.5	101	0.00
62 M	Toluene	1.709	1.618	5.3	101	0.00
63 S	Toluene-d8	1.420	1.379	2.9	106	0.00
64 M	Chlorobenzene	1.032	1.007	2.4	104	0.00
65	1,1,1,2-Tetrachloroethane	0.379	0.359	5.3	100	0.00
66 M	Ethyl Benzene	1.796	1.702	5.2	103	0.00
67 M	m/p-Xylenes	0.687	0.673	2.0	105	0.00
68 M	o-Xylene	0.663	0.644	2.9	103	0.00
69 M	Styrene	1.112	1.095	1.5	107	0.00
70	Isopropylbenzene	1.647	1.652	-0.3	110	0.00
71 M	1,1,2,2-Tetrachloroethane	0.534	0.515	3.6	100	0.00
72	1,2,3-Trichloropropane	0.456	0.486	-6.6	102	0.00
73	Bromobenzene	0.425	0.406	4.5	102	0.00
74	n-propylbenzene	1.926	1.913	0.7	108	0.00
75	2-Chlorotoluene	1.255	1.245	0.8	107	0.00
76	1,3,5-Trimethylbenzene	1.408	1.409	-0.1	108	0.00
77	t-1,4-Dichloro-2-butene	0.187	0.181	3.2	105	0.00
78	4-Chlorotoluene	1.268	1.243	2.0	106	0.00
79	tert-butylbenzene	1.164	1.186	-1.9	115	0.00
80	1,2,4-Trimethylbenzene	1.420	1.410	0.7	108	0.00
81	sec-Butylbenzene	1.604	1.580	1.5	109	0.00
82	p-Isopropyltoluene	1.348	1.306	3.1	108	0.00
83 M	1,3-Dichlorobenzene	0.786	0.760	3.3	104	0.00
84 M	1,4-Dichlorobenzene	0.776	0.766	1.3	108	0.00
85	n-Butylbenzene	1.132	1.097	3.1	114	0.00
86 T	Hexachloroethane	0.276	0.265	4.0	103	0.00
87 M	1,2-Dichlorobenzene	0.774	0.761	1.7	103	0.00
88	1,2-Dibromo-3-Chloropropane	0.103	0.108	-4.9	111	0.00
89	1,2,4-Trichlorobenzene	0.377	0.381	-1.1	110	0.00
90	Hexachlorobutadiene	0.165	0.168	-1.8	111	0.00
91 M	Naphthalene	1.204	1.165	3.2	115	0.00
92	1,2,3-Trichlorobenzene	0.377	0.381	-1.1	110	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	106	0.00
2 M	Dichlorodifluoromethane	20.000	20.189	-0.9	102	0.00
3 M	Chloromethane	20.000	19.742	1.3	101	0.00
4 M	Vinyl Chloride	20.000	20.200	-1.0	102	0.00
5 M	Bromomethane	20.000	19.733	1.3	95	0.00
6 M	Chloroethane	20.000	19.284	3.6	98	0.02
7 M	Trichlorofluoromethane	20.000	20.061	-0.3	100	0.00
8 T	Diethyl Ether	20.000	21.107	-5.5	109	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.762	-3.8	102	0.00
10 M	1,1-Dichloroethene	20.000	19.934	0.3	101	0.00
11	Methyl Iodide	20.000	19.843	0.8	101	0.00
12	Methyl Acetate	20.000	18.084	9.6	97	0.00
13 M	Acrolein	100.000	97.432	2.6	99	0.00
14 M	Acrylonitrile	100.000	100.722	-0.7	106	0.00
15 M	Acetone	100.000	102.773	-2.8	107	0.00
16 M	Carbon Disulfide	20.000	19.828	0.9	101	0.00
17	Allyl chloride	20.000	18.913	5.4	96	0.00
18 M	Methylene Chloride	20.000	19.131	4.3	94	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.342	3.3	99	0.00
20 T	Diisopropyl ether	20.000	19.635	1.8	99	0.00
21 M	1,1-Dichloroethane	20.000	19.334	3.3	97	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.396	3.0	101	0.00
23 M	tert-Butyl Alcohol	100.000	107.508	-7.5	115	0.00
24 M	Methyl tert-Butyl Ether	20.000	19.562	2.2	101	0.00
25 M	Chloroform	20.000	19.486	2.6	97	0.00
26	Cyclohexane	20.000	20.480	-2.4	106	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.401	2.0	102	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	106	0.00
29	1,1-Dichloropropene	20.000	19.541	2.3	100	0.00
30 M	2-Butanone	100.000	100.199	-0.2	106	0.00
31	2,2-Dichloropropane	20.000	19.943	0.3	99	0.00
32 M	1,1,1-Trichloroethane	20.000	19.308	3.5	97	0.00
33 M	Carbon Tetrachloride	20.000	19.622	1.9	101	0.00
34 M	Benzene	20.000	19.200	4.0	99	0.00
35	Methacrylonitrile	20.000	19.983	0.1	106	0.00
36 M	1,2-Dichloroethane	20.000	19.078	4.6	96	0.00
37 M	Trichloroethene	20.000	19.915	0.4	101	0.00
38	Methylcyclohexane	20.000	19.559	2.2	105	0.00
39 M	1,2-Dichloropropane	20.000	19.222	3.9	98	0.00
40	Dibromomethane	20.000	19.539	2.3	99	0.00
41 M	Bromodichloromethane	20.000	19.395	3.0	101	0.00
42 M	Vinyl Acetate	100.000	99.926	0.1	105	0.00
43	Ethyl Acetate	20.000	19.830	0.9	107	0.00
44	Isopropyl Acetate	20.000	18.295	8.5	101	0.00
45 T	1,4-Dioxane	400.000	409.524	-2.4	107	0.00
46	Methyl methacrylate	20.000	19.620	1.9	106	0.00
47	n-amyl Acetate	20.000	19.811	0.9	104	0.00
48 M	t-1,3-Dichloropropene	20.000	19.551	2.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	19.529	2.4	101	0.00
50 M	1,1,2-Trichloroethane	20.000	19.786	1.1	100	0.00
51	Ethyl methacrylate	20.000	19.481	2.6	106	0.00
52	1,3-Dichloropropane	20.000	19.341	3.3	98	0.00
53 M	Dibromochloromethane	20.000	19.690	1.5	102	0.00
54 M	1,2-Dibromoethane	20.000	19.356	3.2	98	0.00
55 M	2-Chloroethyl vinyl ether	100.000	102.456	-2.5	104	0.00
56 M	Bromoform	20.000	19.898	0.5	106	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	111	0.00
58 M	4-Methyl-2-Pentanone	100.000	100.170	-0.2	107	0.00
59 M	2-Hexanone	100.000	99.639	0.4	108	0.00
60 S	4-Bromofluorobenzene	30.000	29.939	0.2	113	0.00
61 M	Tetrachloroethene	20.000	19.129	4.4	101	0.00
62 M	Toluene	20.000	18.941	5.3	101	0.00
63 S	Toluene-d8	30.000	29.138	2.9	106	0.00
64 M	Chlorobenzene	20.000	19.519	2.4	104	0.00
65	1,1,1,2-Tetrachloroethane	20.000	18.937	5.3	100	0.00
66 M	Ethyl Benzene	20.000	18.953	5.2	103	0.00
67 M	m/p-Xylenes	40.000	39.137	2.2	105	0.00
68 M	o-Xylene	20.000	19.434	2.8	103	0.00
69 M	Styrene	20.000	19.701	1.5	107	0.00
70	Isopropylbenzene	20.000	20.058	-0.3	110	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.273	3.6	100	0.00
72	1,2,3-Trichloropropane	20.000	21.337	-6.7	102	0.00
73	Bromobenzene	20.000	19.118	4.4	102	0.00
74	n-propylbenzene	20.000	19.858	0.7	108	0.00
75	2-Chlorotoluene	20.000	19.851	0.7	107	0.00
76	1,3,5-Trimethylbenzene	20.000	20.014	-0.1	108	0.00
77	t-1,4-Dichloro-2-butene	20.000	19.312	3.4	105	0.00
78	4-Chlorotoluene	20.000	19.616	1.9	106	0.00
79	tert-butylbenzene	20.000	20.379	-1.9	115	0.00
80	1,2,4-Trimethylbenzene	20.000	19.863	0.7	108	0.00
81	sec-Butylbenzene	20.000	19.704	1.5	109	0.00
82	p-Isopropyltoluene	20.000	19.381	3.1	108	0.00
83 M	1,3-Dichlorobenzene	20.000	19.330	3.4	104	0.00
84 M	1,4-Dichlorobenzene	20.000	19.724	1.4	108	0.00
85	n-Butylbenzene	20.000	19.377	3.1	114	0.00
86 T	Hexachloroethane	20.000	19.206	4.0	103	0.00
87 M	1,2-Dichlorobenzene	20.000	19.650	1.8	103	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	20.926	-4.6	111	0.00
89	1,2,4-Trichlorobenzene	20.000	20.187	-0.9	110	0.00
90	Hexachlorobutadiene	20.000	20.428	-2.1	111	0.00
91 M	Naphthalene	20.000	19.356	3.2	115	0.00
92	1,2,3-Trichlorobenzene	20.000	20.187	-0.9	110	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

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.



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

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.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085052.D
 Acq On : 27 Nov 2024 11:44
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 28 05:29:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	28768	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	155364	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	140160	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	68683	29.697	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.000%
60) 4-Bromofluorobenzene	12.847	95	69898	28.963	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.533%
63) Toluene-d8	10.559	98	194573	29.324	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.733%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	32108	19.189	ug/l	92
3) Chloromethane	2.360	50	36305	18.022	ug/l	99
4) Vinyl Chloride	2.512	62	34247	18.308	ug/l	93
5) Bromomethane	2.907	94	20454	21.543	ug/l	99
6) Chloroethane	3.095	64	22115	18.006	ug/l	95
7) Trichlorofluoromethane	3.483	101	60605	19.949	ug/l	100
8) Diethyl Ether	3.954	74	20120	18.567	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	34854m	20.301	ug/l	
10) 1,1-Dichloroethene	4.336	96	31686	18.900	ug/l	84
11) Methyl Iodide	4.577	142	44759	19.424	ug/l	93
12) Methyl Acetate	5.012	43	39912	15.273	ug/l	97
13) Acrolein	4.171	56	26026	80.759	ug/l	99
14) Acrylonitrile	5.706	53	70252	82.173	ug/l	98
15) Acetone	4.430	58	19905	90.614	ug/l	80
16) Carbon Disulfide	4.706	76	87074	17.651	ug/l #	94
17) Allyl chloride	5.018	41	47007	16.455	ug/l	98
18) Methylene Chloride	5.277	84	35804m	18.224	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	33359	18.983	ug/l	96
20) Diisopropyl ether	6.659	45	106175	18.566	ug/l	97
21) 1,1-Dichloroethane	6.559	63	63087	18.343	ug/l	98
22) cis-1,2-Dichloroethene	7.477	96	39150	18.660	ug/l	94
23) tert-Butyl Alcohol	5.530	59	22129	74.143	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	98204	18.113	ug/l	99
25) Chloroform	7.959	83	67090	19.040	ug/l	94
26) Cyclohexane	8.247	56	47100	17.929	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	43484	18.582	ug/l	98
30) 2-Butanone	7.477	43	92302	85.508	ug/l	99
31) 2,2-Dichloropropane	7.483	77	59687	20.895	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	61002	19.188	ug/l	99
33) Carbon Tetrachloride	8.353	117	52364	19.302	ug/l	99
34) Benzene	8.600	78	140743	18.196	ug/l	96
35) Methacrylonitrile	7.777	41	23218	18.148	ug/l	95
36) 1,2-Dichloroethane	8.665	62	48214	18.744	ug/l	100
37) Trichloroethene	9.347	130	32956	18.887	ug/l	98
38) Methylcyclohexane	9.594	83	45352	18.003	ug/l	97
39) 1,2-Dichloropropane	9.618	63	34717	18.645	ug/l	100
40) Dibromomethane	9.706	93	23524	18.060	ug/l	98
41) Bromodichloromethane	9.883	83	51250	18.353	ug/l	100
42) Vinyl Acetate	6.595	43	353293	87.561	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085052.D
 Acq On : 27 Nov 2024 11:44
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 28 05:29:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

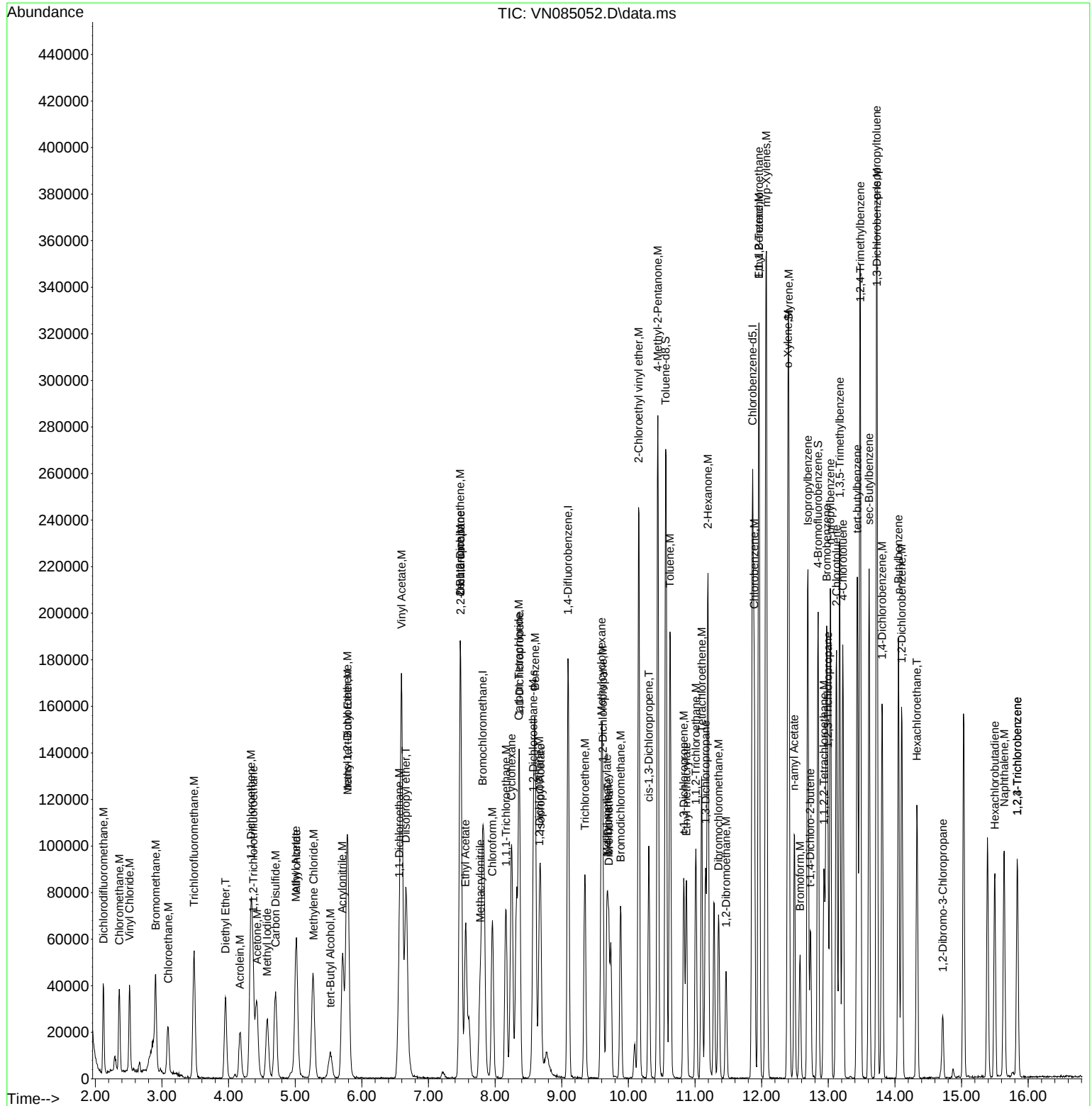
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	36167	15.945	ug/l	100
44) Isopropyl Acetate	8.683	43	73039	15.903	ug/l	99
45) 1,4-Dioxane	9.694	88	9606	313.277	ug/l #	70
46) Methyl methacrylate	9.677	41	30198	16.361	ug/l	96
47) n-amyl Acetate	12.488	43	53926	15.721	ug/l	98
48) t-1,3-Dichloropropene	10.830	75	50213	18.211	ug/l	96
49) cis-1,3-Dichloropropene	10.306	75	55495	18.779	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	32725	18.730	ug/l	95
51) Ethyl methacrylate	10.871	69	45017	16.715	ug/l	96
52) 1,3-Dichloropropane	11.159	76	54569	17.993	ug/l	99
53) Dibromochloromethane	11.353	129	38954	19.052	ug/l	98
54) 1,2-Dibromoethane	11.465	107	31988	18.102	ug/l	97
55) 2-Chloroethyl vinyl ether	10.153	63	109569	82.982	ug/l	99
56) Bromoform	12.576	173	24443	17.835	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	186087	84.157	ug/l	99
59) 2-Hexanone	11.194	43	135441	83.648	ug/l	99
61) Tetrachloroethene	11.100	164	28161	19.198	ug/l	96
62) Toluene	10.624	91	148738	18.632	ug/l	98
64) Chlorobenzene	11.888	112	92200	19.132	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	34478	19.467	ug/l	100
66) Ethyl Benzene	11.959	91	151524	18.061	ug/l	97
67) m/p-Xylenes	12.071	106	118829	36.996	ug/l	99
68) o-Xylene	12.394	106	57067	18.418	ug/l	99
69) Styrene	12.406	104	96817	18.636	ug/l	99
70) Isopropylbenzene	12.694	105	143806	18.684	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	44600	17.878	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	39678m	18.626	ug/l	
73) Bromobenzene	12.976	156	38185	19.235	ug/l	98
74) n-propylbenzene	13.029	91	169659	18.850	ug/l	100
75) 2-Chlorotoluene	13.124	91	111064	18.949	ug/l	97
76) 1,3,5-Trimethylbenzene	13.171	105	126463	19.230	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	14332	16.404	ug/l	92
78) 4-Chlorotoluene	13.218	91	112705	19.032	ug/l	99
79) tert-butylbenzene	13.435	119	103660	19.061	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	128927	19.433	ug/l	97
81) sec-Butylbenzene	13.612	105	145710	19.444	ug/l	99
82) p-Isopropyltoluene	13.723	119	121657	19.321	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	69442	18.914	ug/l	97
84) 1,4-Dichlorobenzene	13.806	146	69922	19.274	ug/l	97
85) n-Butylbenzene	14.053	91	100159	18.939	ug/l	98
86) Hexachloroethane	14.329	117	24888	19.327	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	66779	18.458	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.718	75	7992	16.603	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	34063	19.337	ug/l	97
90) Hexachlorobutadiene	15.500	225	16934	22.008	ug/l	94
91) Naphthalene	15.641	128	94116	16.730	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	34063	19.337	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085052.D
 Acq On : 27 Nov 2024 11:44
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 28 05:29:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration





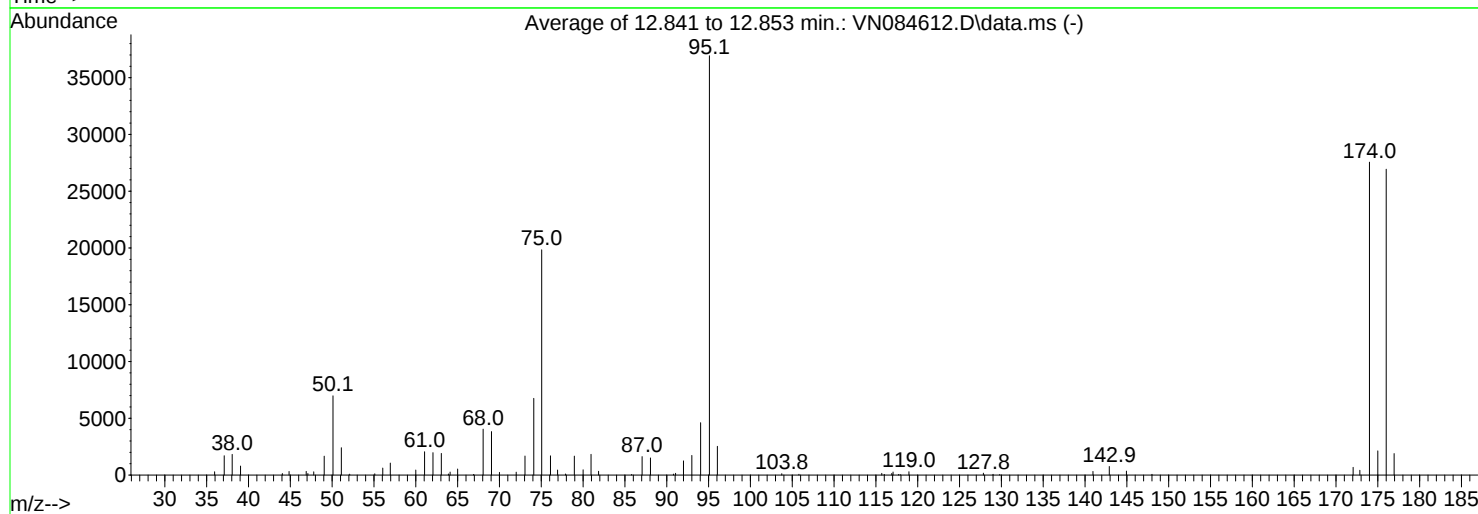
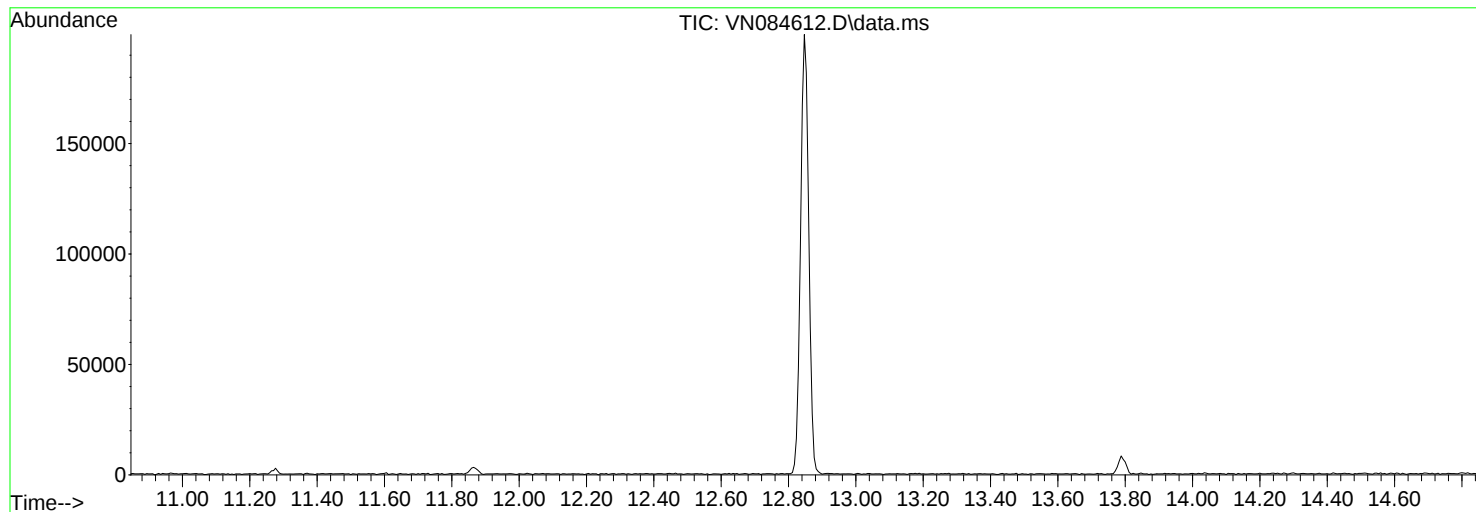
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084612.D
Acq On : 31 Oct 2024 10:56
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

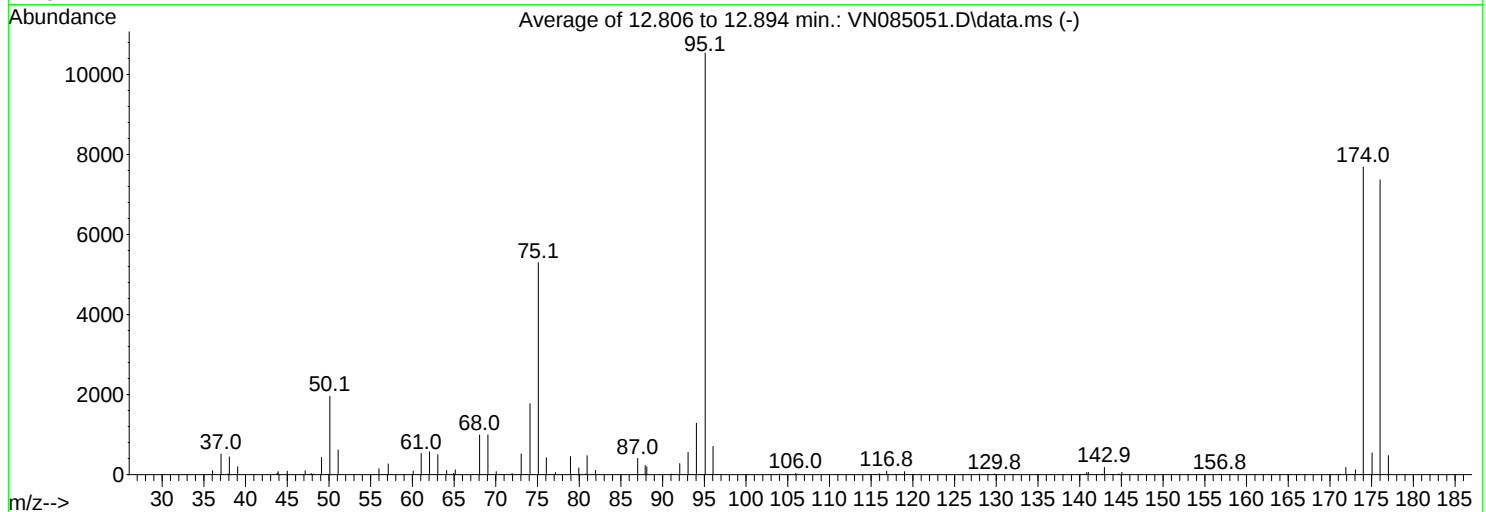
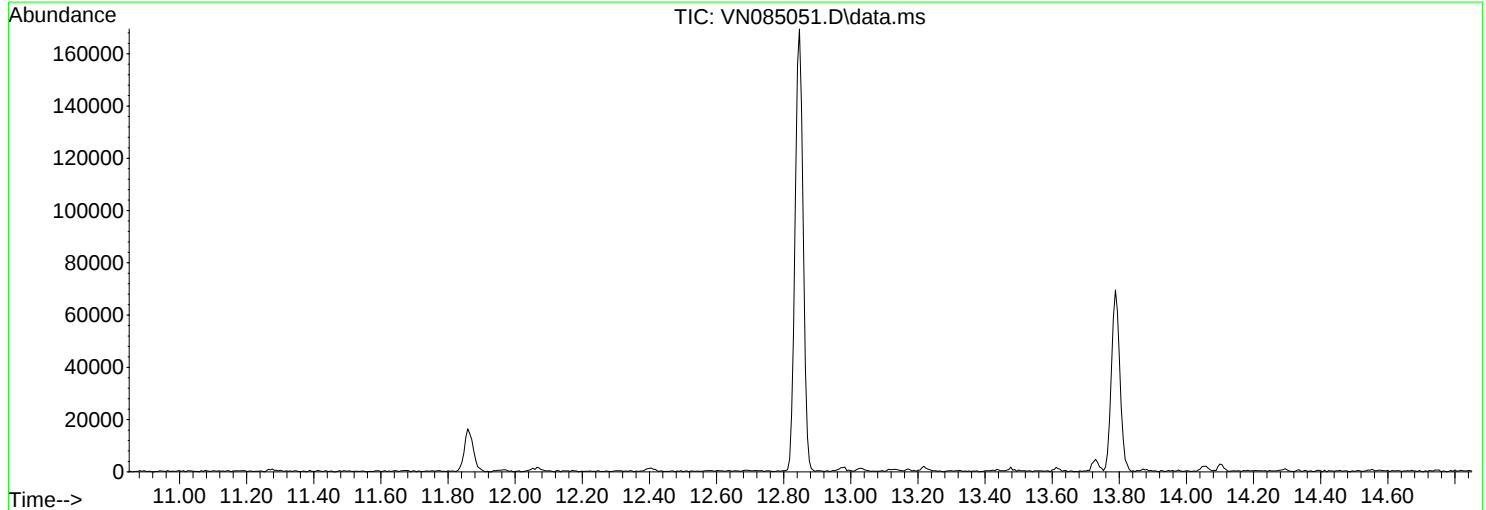
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	6981	PASS
75	95	30	60	53.7	19840	PASS
95	95	100	100	100.0	36931	PASS
96	95	5	9	6.9	2535	PASS
173	174	0.00	2	1.5	422	PASS
174	95	50	100	74.6	27560	PASS
175	174	5	9	7.7	2131	PASS
176	174	95	101	97.7	26936	PASS
177	176	5	9	7.0	1894	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085051.D
Acq On : 27 Nov 2024 08:30
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 2024



AutoFind: Averaged scan 1845 to 1860; Bkg corrected with scan 1844

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.6	1956	PASS
75	95	30	60	50.3	5300	PASS
95	95	100	100	100.0	10541	PASS
96	95	5	9	6.7	704	PASS
173	174	0.00	2	1.6	122	PASS
174	95	50	100	73.0	7691	PASS
175	174	5	9	7.1	544	PASS
176	174	95	101	95.8	7371	PASS
177	176	5	9	6.4	474	PASS

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:		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
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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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085055.D
Acq On : 27 Nov 2024 13:19
Operator : JC\MD
Sample : VN1127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1127WBL01

Quant Time: Nov 28 05:32:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	26189	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	138613	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	117498	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	65482	31.101	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.667%
60) 4-Bromofluorobenzene	12.847	95	49537	24.485	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.633%
63) Toluene-d8	10.565	98	159071	28.598	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.333%

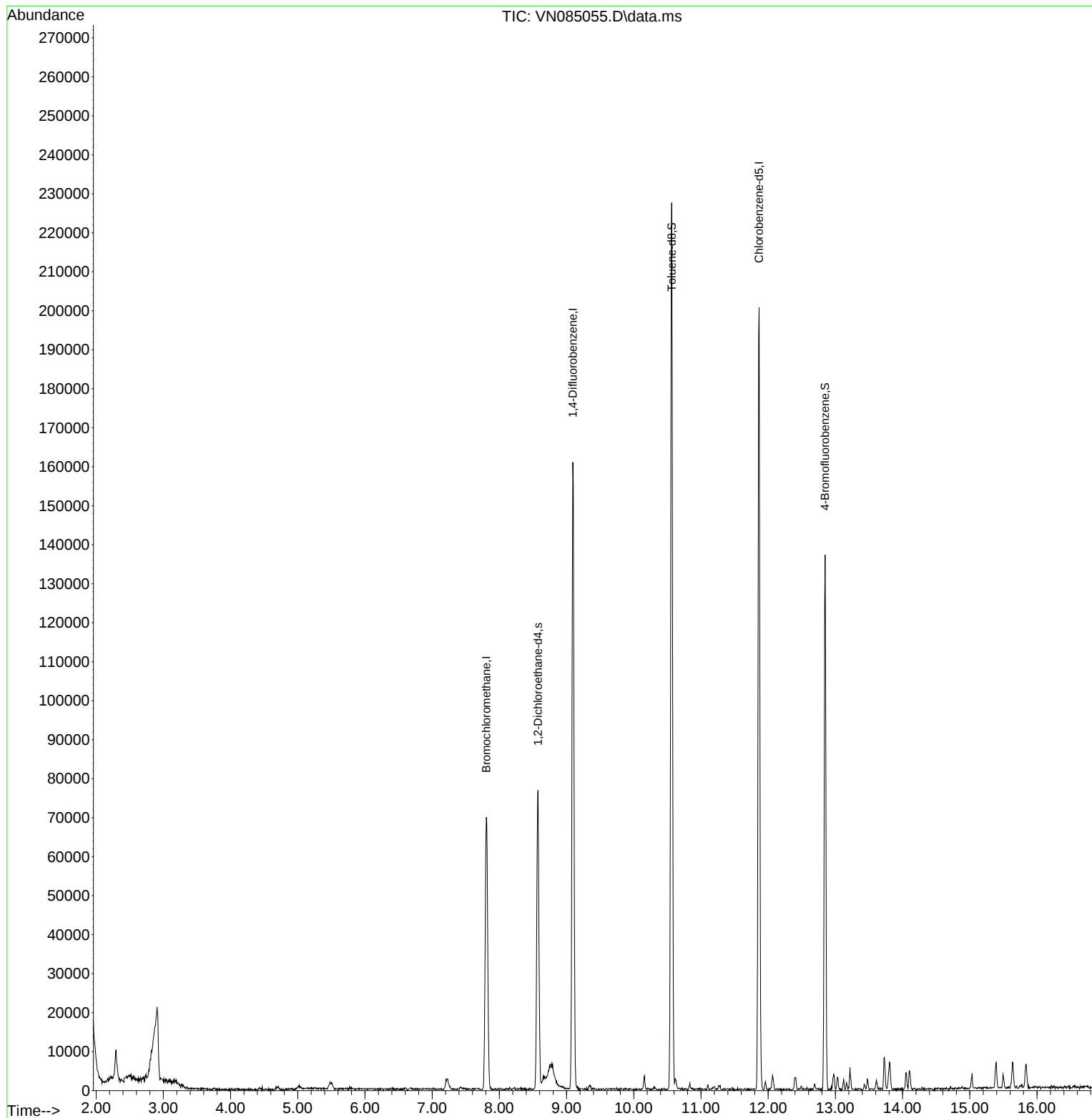
Target Compounds	Qvalue

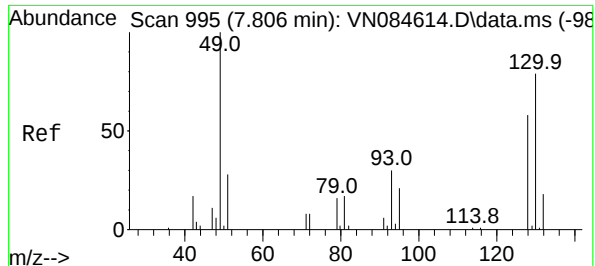
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085055.D
Acq On : 27 Nov 2024 13:19
Operator : JC\MD
Sample : VN1127WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1127WBL01

Quant Time: Nov 28 05:32:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085055.D

Acq: 27 Nov 2024 13:19

Instrument :

MSVOA_N

ClientSampleId :

VN1127WBL01

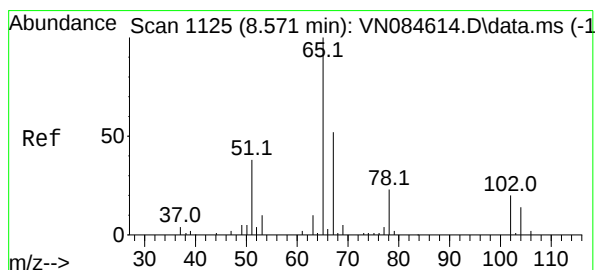
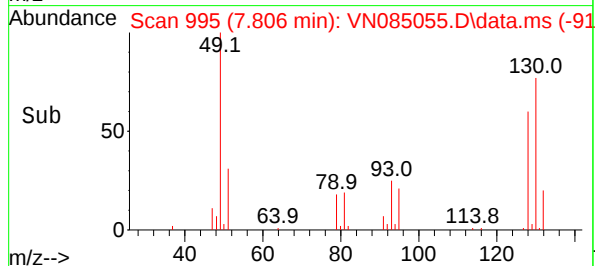
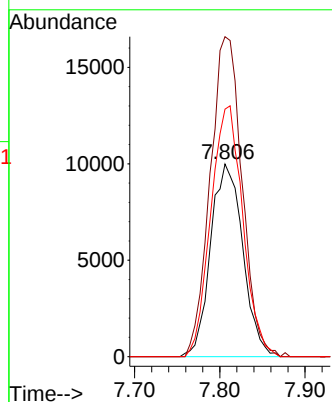
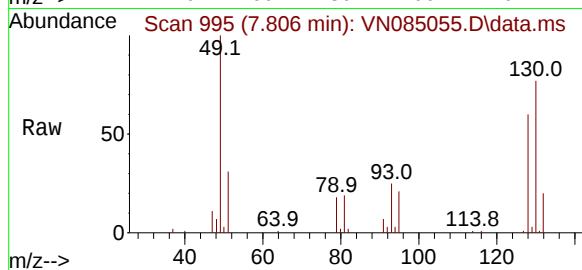
Tgt Ion:128 Resp: 26189

Ion Ratio Lower Upper

128 100

49 164.8 0.0 427.0

130 129.7 0.0 322.2



#27

1,2-Dichloroethane-d4

Concen: 31.101 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085055.D

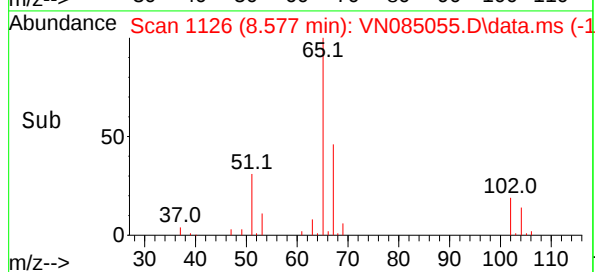
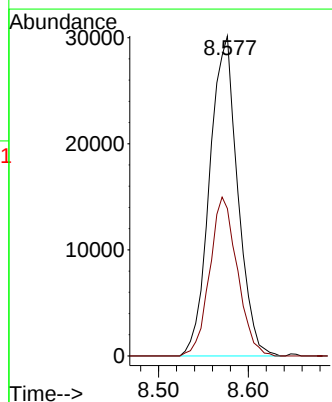
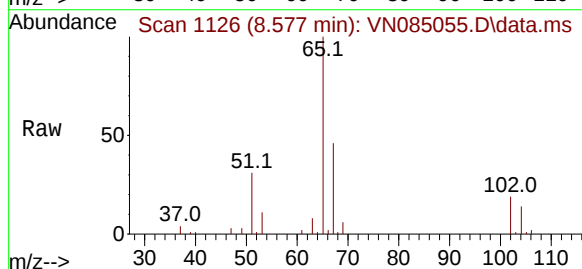
Acq: 27 Nov 2024 13:19

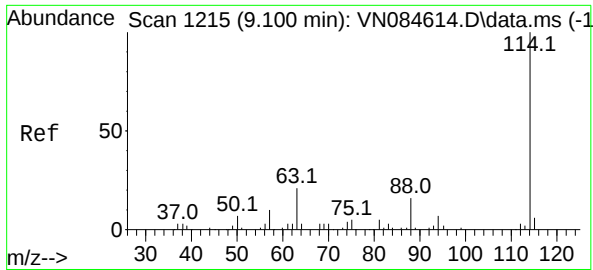
Tgt Ion: 65 Resp: 65482

Ion Ratio Lower Upper

65 100

67 48.8 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN085055.D

Acq: 27 Nov 2024 13:19

Instrument :

MSVOA_N

ClientSampleId :

VN1127WBL01

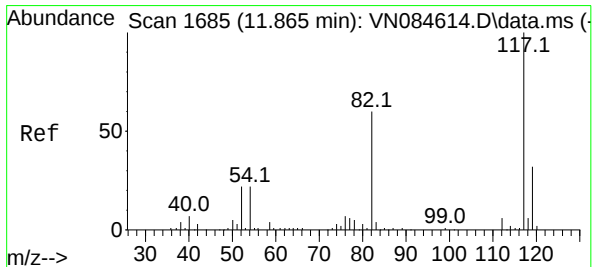
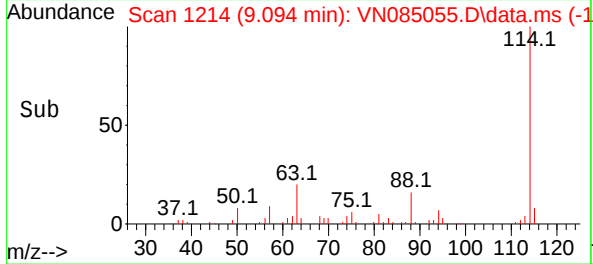
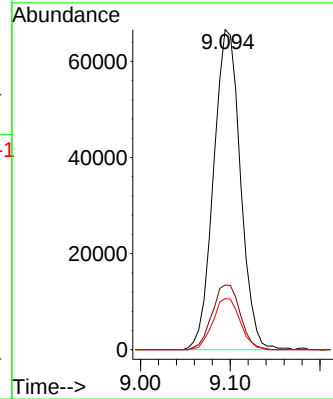
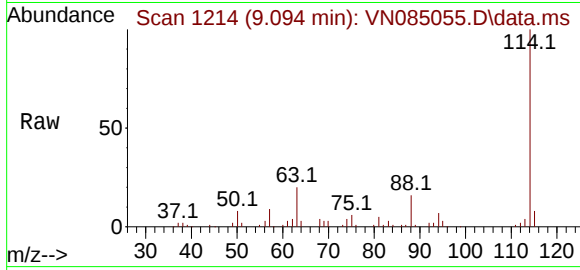
Tgt Ion:114 Resp: 138613

Ion Ratio Lower Upper

114 100

63 21.2 16.8 25.2

88 16.2 12.9 19.3



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085055.D

Acq: 27 Nov 2024 13:19

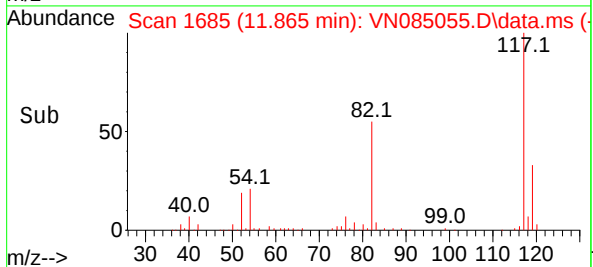
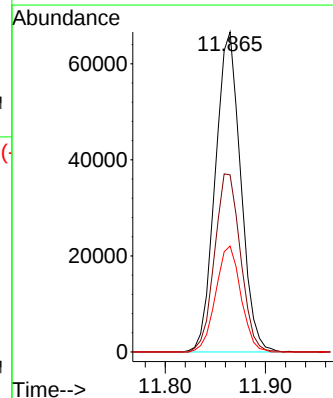
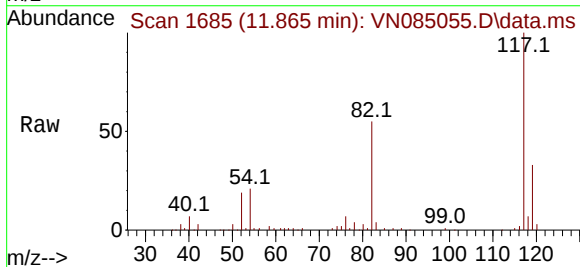
Tgt Ion:117 Resp: 117498

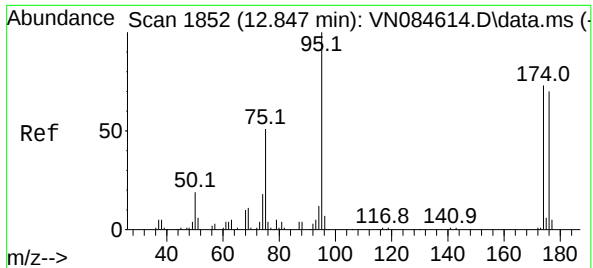
Ion Ratio Lower Upper

117 100

82 56.7 45.5 68.3

119 32.8 25.3 37.9

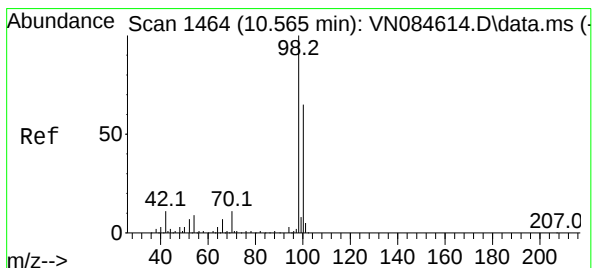
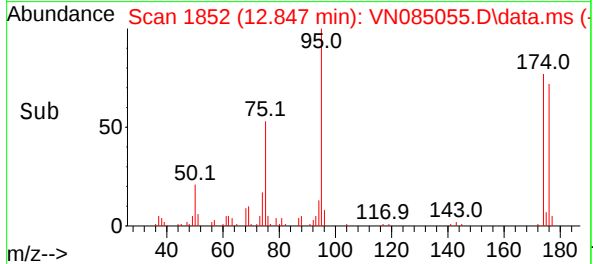
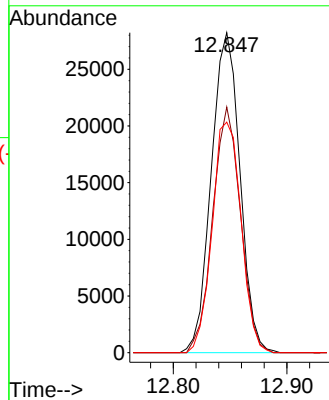
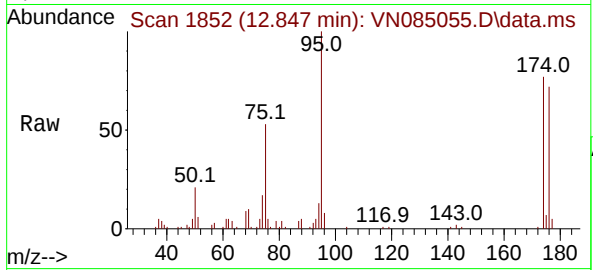




#60
4-Bromofluorobenzene
Concen: 24.485 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085055.D
Acq: 27 Nov 2024 13:19

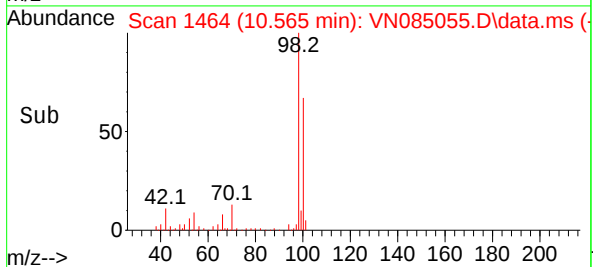
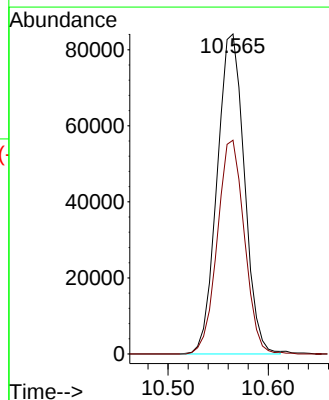
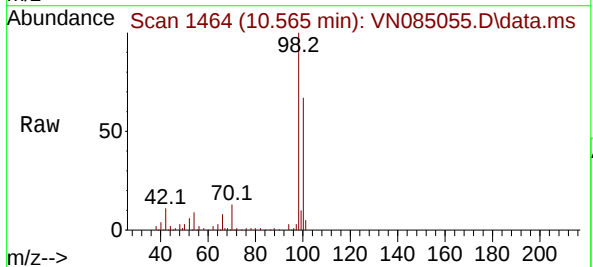
Instrument :
MSVOA_N
ClientSampleId :
VN1127WBL01

Tgt Ion: 95 Resp: 49537
Ion Ratio Lower Upper
95 100
174 74.2 59.6 89.4
176 72.7 58.6 88.0



#63
Toluene-d8
Concen: 28.598 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085055.D
Acq: 27 Nov 2024 13:19

Tgt Ion: 98 Resp: 159071
Ion Ratio Lower Upper
98 100
100 66.3 52.2 78.2



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
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
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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085053.D
 Acq On : 27 Nov 2024 12:21
 Operator : JC\MD
 Sample : VN1127WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1127WBS01

Quant Time: Nov 28 05:30:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	32660	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	179004	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	161319	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	79724	30.363	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.200%
60) 4-Bromofluorobenzene	12.847	95	81541	29.356	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.867%
63) Toluene-d8	10.559	98	226230	29.623	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.733%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	37801	19.900	ug/l	94
3) Chloromethane	2.359	50	39834	17.417	ug/l	98
4) Vinyl Chloride	2.512	62	39453	18.577	ug/l	90
5) Bromomethane	2.906	94	21690	20.122	ug/l	97
6) Chloroethane	3.089	64	25913	18.584	ug/l	98
7) Trichlorofluoromethane	3.483	101	68880	19.971	ug/l	99
8) Diethyl Ether	3.953	74	23706	19.269	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.365	101	38897	19.956	ug/l	99
10) 1,1-Dichloroethene	4.330	96	35517	18.660	ug/l	87
11) Methyl Iodide	4.583	142	51014	19.501	ug/l	94
12) Methyl Acetate	5.018	43	46804	15.776	ug/l	98
13) Acrolein	4.171	56	30374m	83.020	ug/l	
14) Acrylonitrile	5.706	53	84073	86.621	ug/l	97
15) Acetone	4.430	58	23883	95.767	ug/l	94
16) Carbon Disulfide	4.706	76	96910	17.304	ug/l	97
17) Allyl chloride	5.018	41	52130	16.073	ug/l	96
18) Methylene Chloride	5.265	84	40001	17.934	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	37230	18.661	ug/l	87
20) Diisopropyl ether	6.665	45	121631	18.734	ug/l	98
21) 1,1-Dichloroethane	6.559	63	73682	18.871	ug/l	99
22) cis-1,2-Dichloroethene	7.477	96	44319	18.607	ug/l	97
23) tert-Butyl Alcohol	5.524	59	26521	78.269	ug/l	# 100
24) Methyl tert-Butyl Ether	5.789	73	114196	18.553	ug/l	99
25) Chloroform	7.959	83	76814	19.202	ug/l	91
26) Cyclohexane	8.253	56	55755	18.694	ug/l	# 97
29) 1,1-Dichloropropene	8.365	75	49993	18.542	ug/l	99
30) 2-Butanone	7.477	43	110174	88.586	ug/l	99
31) 2,2-Dichloropropane	7.477	77	68998	20.964	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	71535	19.529	ug/l	99
33) Carbon Tetrachloride	8.359	117	60580	19.382	ug/l	98
34) Benzene	8.600	78	159354	17.881	ug/l	96
35) Methacrylonitrile	7.771	41	25134	17.051	ug/l	95
36) 1,2-Dichloroethane	8.665	62	56234	18.975	ug/l	98
37) Trichloroethene	9.347	130	37673	18.739	ug/l	92
38) Methylcyclohexane	9.594	83	54082	18.633	ug/l	98
39) 1,2-Dichloropropane	9.612	63	39483	18.405	ug/l	90
40) Dibromomethane	9.706	93	28509	18.996	ug/l	97
41) Bromodichloromethane	9.882	83	58558	18.201	ug/l	97
42) Vinyl Acetate	6.594	43	418974	90.126	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085053.D
 Acq On : 27 Nov 2024 12:21
 Operator : JC\MD
 Sample : VN1127WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1127WBS01

Quant Time: Nov 28 05:30:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

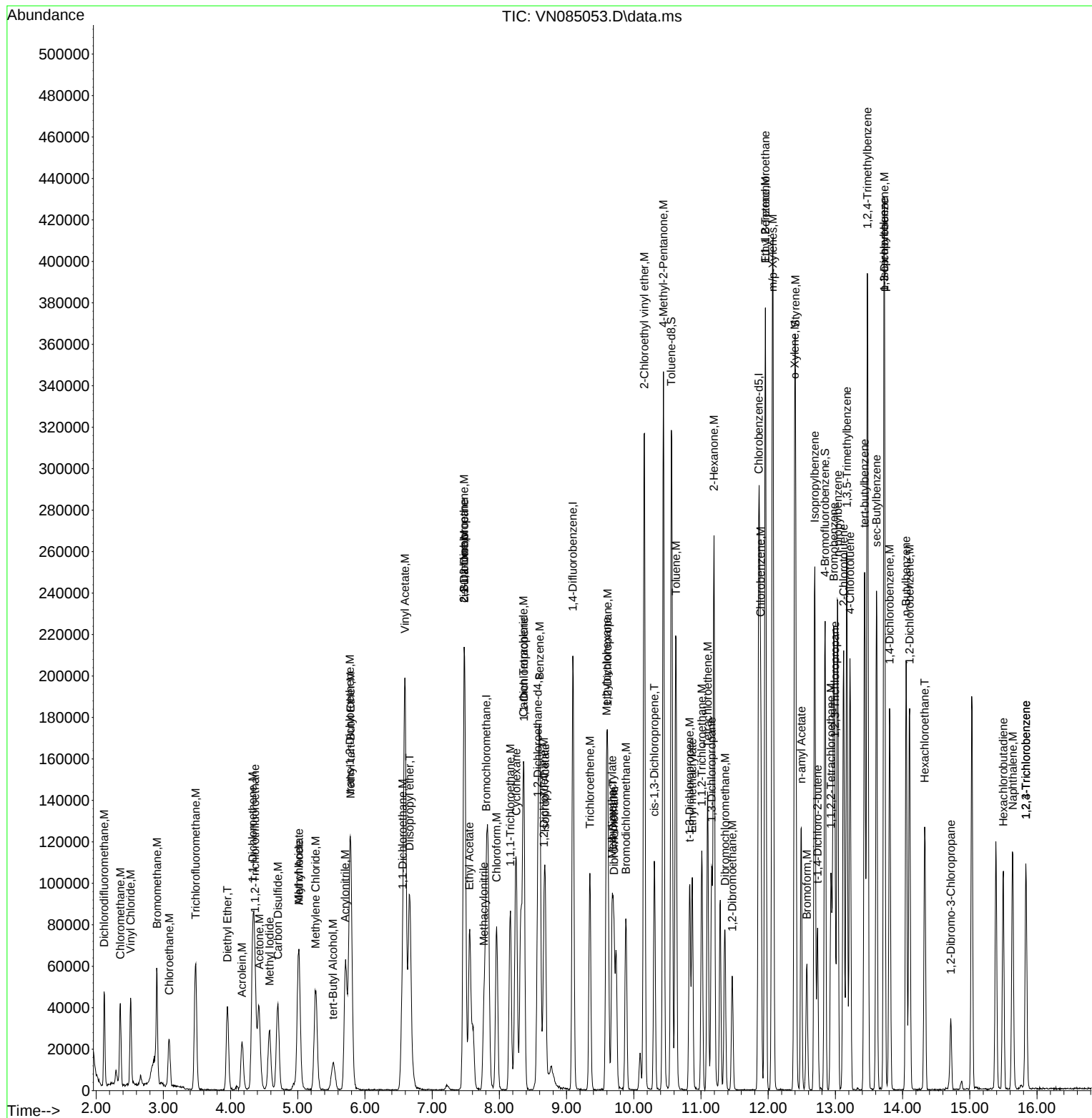
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	42071	16.099	ug/l	97
44) Isopropyl Acetate	8.683	43	92466m	17.474	ug/l	
45) 1,4-Dioxane	9.694	88	11579	327.752	ug/l	91
46) Methyl methacrylate	9.677	41	35933	16.897	ug/l	94
47) n-amyl Acetate	12.494	43	63833	16.152	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	57326	18.045	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	63060	18.521	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	37772	18.764	ug/l	96
51) Ethyl methacrylate	10.871	69	54005	17.404	ug/l	97
52) 1,3-Dichloropropane	11.159	76	63448	18.158	ug/l	98
53) Dibromochloromethane	11.359	129	44890	19.055	ug/l	96
54) 1,2-Dibromoethane	11.465	107	37251	18.296	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	144980	95.300	ug/l	98
56) Bromoform	12.576	173	28254	17.893	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	219965	86.430	ug/l	99
59) 2-Hexanone	11.194	43	165732	88.931	ug/l	99
61) Tetrachloroethene	11.100	164	32769	19.409	ug/l	96
62) Toluene	10.629	91	169805	18.481	ug/l	97
64) Chlorobenzene	11.888	112	104694	18.875	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	38593	18.932	ug/l	98
66) Ethyl Benzene	11.959	91	175100	18.134	ug/l	97
67) m/p-Xylenes	12.071	106	136742	36.989	ug/l	100
68) o-Xylene	12.394	106	63815	17.895	ug/l	94
69) Styrene	12.406	104	110233	18.436	ug/l	98
70) Isopropylbenzene	12.694	105	166861	18.835	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	51127	17.806	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	47640m	19.430	ug/l	
73) Bromobenzene	12.976	156	43648	19.103	ug/l	97
74) n-propylbenzene	13.035	91	193531	18.682	ug/l	98
75) 2-Chlorotoluene	13.123	91	127203	18.856	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	145182	19.181	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	17983	17.883	ug/l	85
78) 4-Chlorotoluene	13.218	91	127084	18.645	ug/l	99
79) tert-butylbenzene	13.435	119	118374	18.911	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	146596	19.198	ug/l	99
81) sec-Butylbenzene	13.612	105	167054	19.368	ug/l	98
82) p-Isopropyltoluene	13.723	119	138369	19.093	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	80897	19.144	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	77741	18.619	ug/l	97
85) n-Butylbenzene	14.053	91	117054	19.231	ug/l	98
86) Hexachloroethane	14.329	117	27595	18.618	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	76484	18.368	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10318	18.623	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	38539	19.009	ug/l	97
90) Hexachlorobutadiene	15.500	225	19739	22.288	ug/l	92
91) Naphthalene	15.641	128	110829	17.117	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	38539	19.009	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\  
Data File : VN085053.D  
Acq On    : 27 Nov 2024 12:21  
Operator  : JC\MD  
Sample    : VN1127WBS01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN1127WBS01

Quant Time: Nov 28 05:30:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



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			

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
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
VN085054.D	1		11/27/24 12:55	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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085054.D
 Acq On : 27 Nov 2024 12:55
 Operator : JC\MD
 Sample : VN1127WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1127WBSD01

Quant Time: Nov 28 05:31:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	29451	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	158864	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	140518	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	72239	30.510	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.700%
60) 4-Bromofluorobenzene	12.847	95	68388	28.265	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.233%
63) Toluene-d8	10.565	98	199101	29.930	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.767%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	36067	21.056	ug/l	96
3) Chloromethane	2.354	50	37129	18.003	ug/l	98
4) Vinyl Chloride	2.512	62	38329	20.015	ug/l	95
5) Bromomethane	2.912	94	21603	22.225	ug/l	99
6) Chloroethane	3.089	64	25583	20.346	ug/l	97
7) Trichlorofluoromethane	3.483	101	68291	21.958	ug/l	93
8) Diethyl Ether	3.953	74	23761	21.418	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.353	101	39576	22.517	ug/l	99
10) 1,1-Dichloroethene	4.330	96	34948	20.362	ug/l	96
11) Methyl Iodide	4.577	142	50812	21.540	ug/l	96
12) Methyl Acetate	5.024	43	49248	18.408	ug/l	97
13) Acrolein	4.171	56	31226	94.648	ug/l	97
14) Acrylonitrile	5.718	53	88094	100.653	ug/l	98
15) Acetone	4.424	58	25029	111.297	ug/l	99
16) Carbon Disulfide	4.700	76	94836	18.778	ug/l	99
17) Allyl chloride	5.012	41	52730	18.030	ug/l	90
18) Methylene Chloride	5.265	84	40741	20.256	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	36185	20.114	ug/l	88
20) Diisopropyl ether	6.665	45	124178	21.210	ug/l	96
21) 1,1-Dichloroethane	6.565	63	74070	21.037	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	44172	20.566	ug/l	97
23) tert-Butyl Alcohol	5.542	59	29631	96.976	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	121886	21.960	ug/l	99
25) Chloroform	7.959	83	74963	20.781	ug/l	98
26) Cyclohexane	8.253	56	54643	20.318	ug/l #	97
29) 1,1-Dichloropropene	8.365	75	51079	21.347	ug/l	99
30) 2-Butanone	7.483	43	114539	103.771	ug/l	99
31) 2,2-Dichloropropane	7.483	77	67298	23.040	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	68456	21.058	ug/l	99
33) Carbon Tetrachloride	8.359	117	59980	21.623	ug/l	98
34) Benzene	8.600	78	164188	20.759	ug/l	96
35) Methacrylonitrile	7.771	41	26403	20.183	ug/l	95
36) 1,2-Dichloroethane	8.665	62	57882	22.007	ug/l #	93
37) Trichloroethene	9.347	130	37522	21.030	ug/l	85
38) Methylcyclohexane	9.600	83	54024	20.972	ug/l	97
39) 1,2-Dichloropropane	9.618	63	38513	20.229	ug/l	96
40) Dibromomethane	9.706	93	28134	21.123	ug/l	98
41) Bromodichloromethane	9.883	83	60402	21.154	ug/l	99
42) Vinyl Acetate	6.594	43	435967	105.670	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
 Data File : VN085054.D
 Acq On : 27 Nov 2024 12:55
 Operator : JC\MD
 Sample : VN1127WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1127WBSD01

Quant Time: Nov 28 05:31:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

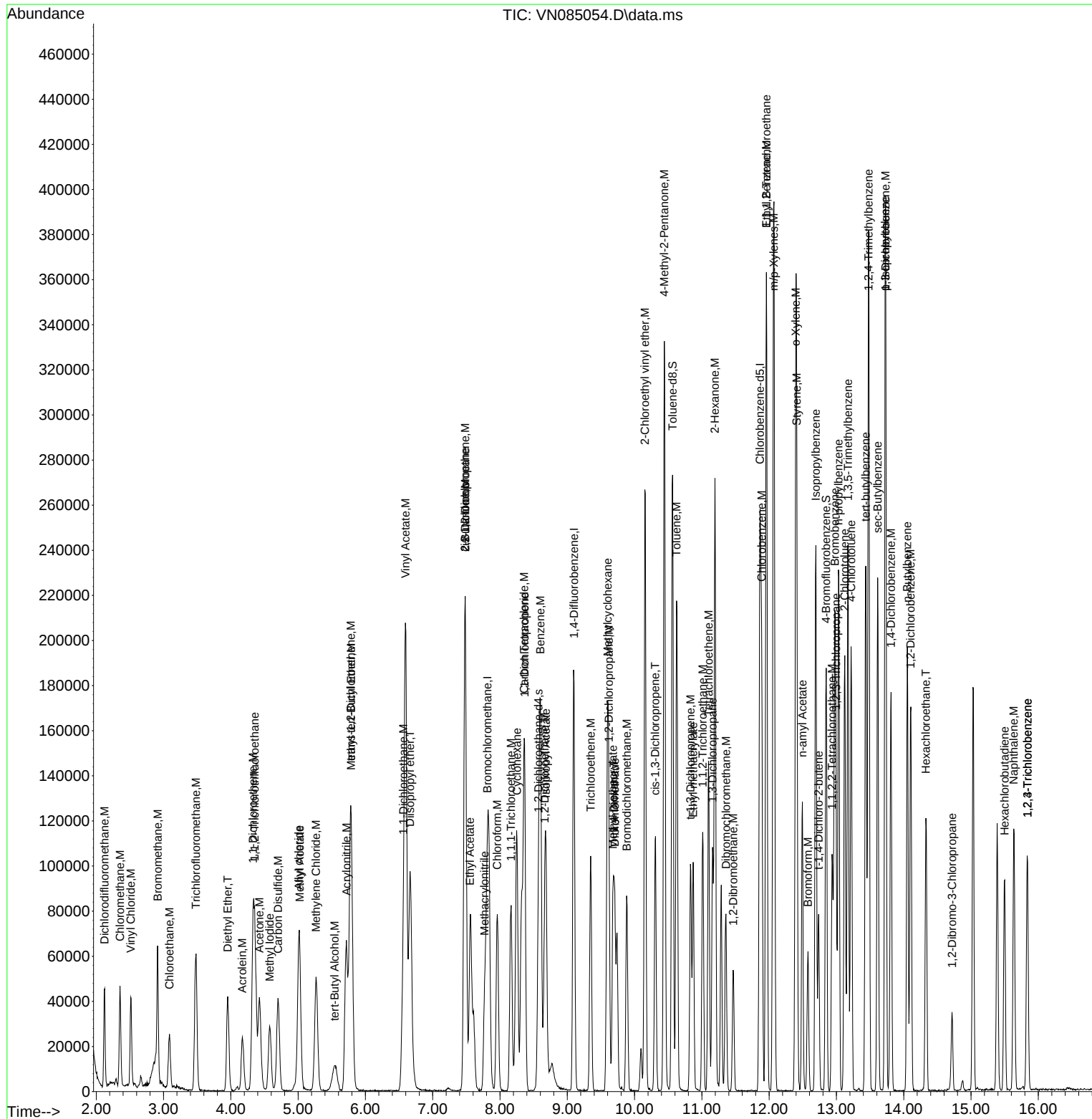
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	41442	17.868	ug/l	95
44) Isopropyl Acetate	8.683	43	100608	21.422	ug/l	97
45) 1,4-Dioxane	9.694	88	12074	385.090	ug/l #	93
46) Methyl methacrylate	9.677	41	35892	19.018	ug/l	89
47) n-amyl Acetate	12.494	43	64954	18.519	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	58378	20.706	ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	64354	21.297	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	37662	21.081	ug/l	95
51) Ethyl methacrylate	10.871	69	53336	19.368	ug/l	96
52) 1,3-Dichloropropane	11.159	76	65014	20.965	ug/l	98
53) Dibromochloromethane	11.359	129	45200	21.619	ug/l	97
54) 1,2-Dibromoethane	11.465	107	36851	20.394	ug/l	95
55) 2-Chloroethyl vinyl ether	10.153	63	121540	90.020	ug/l	98
56) Bromoform	12.576	173	29840	21.293	ug/l	96
58) 4-Methyl-2-Pentanone	10.441	43	222869	100.535	ug/l	98
59) 2-Hexanone	11.194	43	166599	102.630	ug/l	98
61) Tetrachloroethene	11.100	164	32894	22.367	ug/l	89
62) Toluene	10.624	91	167340	20.909	ug/l	99
64) Chlorobenzene	11.888	112	101215	20.949	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	39699	22.357	ug/l	99
66) Ethyl Benzene	11.959	91	170174	20.232	ug/l	99
67) m/p-Xylenes	12.071	106	133305	41.397	ug/l	99
68) o-Xylene	12.394	106	66202	21.312	ug/l	97
69) Styrene	12.412	104	108145	20.764	ug/l	98
70) Isopropylbenzene	12.694	105	157872	20.459	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	51623	20.640	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	42135m	19.729	ug/l	
73) Bromobenzene	12.976	156	41203	20.703	ug/l	98
74) n-propylbenzene	13.029	91	183357	20.320	ug/l	100
75) 2-Chlorotoluene	13.123	91	120549	20.515	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	136206	20.659	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	17691	20.197	ug/l	96
78) 4-Chlorotoluene	13.218	91	120608	20.315	ug/l	99
79) tert-butylbenzene	13.435	119	111640	20.476	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	140100	21.063	ug/l	96
81) sec-Butylbenzene	13.612	105	157340	20.943	ug/l	99
82) p-Isopropyltoluene	13.723	119	129726	20.550	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	77012	20.923	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	75273	20.696	ug/l	99
85) n-Butylbenzene	14.053	91	109482	20.649	ug/l	99
86) Hexachloroethane	14.329	117	26564	20.576	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	74405	20.514	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10011	20.744	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	38501	21.801	ug/l	99
90) Hexachlorobutadiene	15.500	225	18213	23.610	ug/l	96
91) Naphthalene	15.635	128	110357	19.567	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	38501	21.801	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112724\
Data File : VN085054.D
Acq On : 27 Nov 2024 12:55
Operator : JC\MD
Sample : VN1127WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1127WBSD01

Quant Time: Nov 28 05:31:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN103124	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VN084613.D	1,2,3-Trichloropropane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Acetone	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Acrylonitrile	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Allyl chloride	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Chloroethane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Methyl Acetate	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	trans-1,2-Dichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDIC005	VN084613.D	Trichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	tert-Butyl Alcohol	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDIC050	VN084615.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDIC050	VN084615.D	Chloroethane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDIC100	VN084616.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:53 AM	MMDadoda	11/4/2024 1:19:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN103124

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VN084617.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:54 AM	MMDadoda	11/4/2024 1:19:15 AM	Peak Integrated by Software
VSTDICV020	VN084619.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:55 AM	MMDadoda	11/4/2024 1:19:16 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	Allyl chloride	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	Diethyl Ether	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	tert-Butyl Alcohol	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	trans-1,2-Dichloroethene	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VN112724

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:19:34 AM		
SubDirectory	VN103124	HP Acquire Method	MSVOA_N	HP Processing Method	624n103124w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131208			
Initial Calibration Stds		VP131209,VP131210,VP131211,VP131212,VP131213			
CCC		VP131215,VP131216			
Internal Standard/PEM		VP130994			
ICV/I.BLK		VP131214			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084612.D	31 Oct 2024 10:56	JC\MD	Ok
2	VSTDIC005	VN084613.D	31 Oct 2024 12:08	JC\MD	Ok,M
3	VSTDICCC020	VN084614.D	31 Oct 2024 12:32	JC\MD	Ok,M
4	VSTDIC050	VN084615.D	31 Oct 2024 12:56	JC\MD	Ok,M
5	VSTDIC100	VN084616.D	31 Oct 2024 13:20	JC\MD	Ok,M
6	VSTDIC150	VN084617.D	31 Oct 2024 13:44	JC\MD	Ok,M
7	VIBLK	VN084618.D	31 Oct 2024 14:08	JC\MD	Ok
8	VSTDICV020	VN084619.D	31 Oct 2024 14:42	JC\MD	Ok,M
9	VN1031WBS01	VN084620.D	31 Oct 2024 15:25	JC\MD	Ok,M
10	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49	JC\MD	Ok,M
11	VN1031WBL01	VN084622.D	31 Oct 2024 16:37	JC\MD	Ok
12	P4646-02	VN084623.D	31 Oct 2024 17:01	JC\MD	Ok
13	P4646-01	VN084624.D	31 Oct 2024 17:25	JC\MD	Ok,M
14	VIBLK	VN084625.D	31 Oct 2024 17:49	JC\MD	Ok
15	VSTDCCC020	VN084626.D	31 Oct 2024 18:13	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN112724

Review By	Review On
Supervise By	Supervise On
SubDirectory VN112724	HP Acquire Method HP Processing Method 624N103124W.M
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131827
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131828,VP131829

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085051.D	27 Nov 2024 08:30	JC\MD	Ok
2	VSTDCCC020	VN085052.D	27 Nov 2024 11:44	JC\MD	Ok,NR
3	VN1127WBS01	VN085053.D	27 Nov 2024 12:21	JC\MD	Ok,NR
4	VN1127WBSD01	VN085054.D	27 Nov 2024 12:55	JC\MD	Ok,NR
5	VN1127WBL01	VN085055.D	27 Nov 2024 13:19	JC\MD	Ok
6	P5018-01	VN085056.D	27 Nov 2024 13:56	JC\MD	Ok
7	P5018-02	VN085057.D	27 Nov 2024 14:20	JC\MD	Ok
8	P5018-03	VN085058.D	27 Nov 2024 14:44	JC\MD	Ok
9	P5018-04	VN085059.D	27 Nov 2024 15:07	JC\MD	Ok
10	VSTDCCC020	VN085060.D	27 Nov 2024 16:12	JC\MD	Ok,NR

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:19:34 AM
SubDirectory	VN103124	HP Acquire Method	MSVOA_N HP Processing Method 624n103124w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131208
Initial Calibration Stds	VP131209,VP131210,VP131211,VP131212,VP131213
CCC	VP131215,VP131216
Internal Standard/PEM	VP130994
ICV/I.BLK	VP131214
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084612.D	31 Oct 2024 10:56		JC\MD	Ok
2	VSTDIC005	VSTDIC005	VN084613.D	31 Oct 2024 12:08		JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN084614.D	31 Oct 2024 12:32		JC\MD	Ok,M
4	VSTDIC050	VSTDIC050	VN084615.D	31 Oct 2024 12:56		JC\MD	Ok,M
5	VSTDIC100	VSTDIC100	VN084616.D	31 Oct 2024 13:20		JC\MD	Ok,M
6	VSTDIC150	VSTDIC150	VN084617.D	31 Oct 2024 13:44		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084618.D	31 Oct 2024 14:08		JC\MD	Ok
8	VSTDICV020	ICVVN103124	VN084619.D	31 Oct 2024 14:42		JC\MD	Ok,M
9	VN1031WBS01	VN1031WBS01	VN084620.D	31 Oct 2024 15:25		JC\MD	Ok,M
10	VN1031WBSD01	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49		JC\MD	Ok,M
11	VN1031WBL01	VN1031WBL01	VN084622.D	31 Oct 2024 16:37		JC\MD	Ok
12	P4646-02	241030043-05-TRIP-BL	VN084623.D	31 Oct 2024 17:01	TB,pH#6.0 B	JC\MD	Ok
13	P4646-01	241030069-01-VOA	VN084624.D	31 Oct 2024 17:25	pH#9.0 B	JC\MD	Ok,M
14	VIBLK	VIBLK	VN084625.D	31 Oct 2024 17:49		JC\MD	Ok
15	VSTDCCC020	VSTDCCC020EC	VN084626.D	31 Oct 2024 18:13		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112724

Review By	Review On
Supervise By	Supervise On
SubDirectory VN112724	HP Acquire Method HP Processing Method 624N103124W.M
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131827
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131828,VP131829

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085051.D	27 Nov 2024 08:30		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN085052.D	27 Nov 2024 11:44		JC\MD	Ok,NR
3	VN1127WBS01	VN1127WBS01	VN085053.D	27 Nov 2024 12:21		JC\MD	Ok,NR
4	VN1127WBSD01	VN1127WBSD01	VN085054.D	27 Nov 2024 12:55		JC\MD	Ok,NR
5	VN1127WBL01	VN1127WBL01	VN085055.D	27 Nov 2024 13:19		JC\MD	Ok
6	P5018-01	14B-1	VN085056.D	27 Nov 2024 13:56		JC\MD	Ok
7	P5018-02	14B-2	VN085057.D	27 Nov 2024 14:20		JC\MD	Ok
8	P5018-03	14B-3	VN085058.D	27 Nov 2024 14:44		JC\MD	Ok
9	P5018-04	14B-4	VN085059.D	27 Nov 2024 15:07		JC\MD	Ok
10	VSTDCCC020	VSTDCCC020EC	VN085060.D	27 Nov 2024 16:12		JC\MD	Ok,NR

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: New York City DEPOFEnvironmenta/
ADDRESS: 3701 Jerome Ave
CITY BRONX STATE: NY ZIP:
ATTENTION: Nicholas Prokopowicz
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Industrial w/ Discharge
PROJECT NO.: LOCATION:
PROJECT MANAGER: Nicholas Prokopowicz
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 Non-Halogen Material
2 TSS, pH, Hexachlor
3 VOC
4 Metals
5 Cyanide
6
7
8
9

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E/C	E	E/A	E/B	E/D					
1.	14B-1	water		X	11-26-24	700	6	X	X	X	X	X					6.76 pH
2.	14B-2			X		759	6	X	X	X	X	X					6.80 pH
3.	14B-3			X		900	6	X	X	X	X	X					6.89 pH
4.	14B-4			X		1001	6	X	X	X	X	X					6.78 pH
5.	14B-4MS			X		1002	1	X									
6.	14B-4MSD			X		1003	1	X									
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>JT</u>	DATE/TIME: <u>1020</u> <u>11-26-24</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>38</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments:
RELINQUISHED BY SAMPLER: 3. <u>JT</u>	DATE/TIME: <u>1350</u> <u>11-26-24</u>	RECEIVED BY: 3. <u>[Signature]</u>	CLIENT: ☐ Hand Delivered ☐ Other _____ CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete

☐ YES ☐ NO

Temperature Correction Factor ($^{\circ}\text{C}$): *NA*

[illegible]

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date: Y. Sapp 11.26.24

Supervisor Review/Date:

QA Control# A3041241

FIELD SAMPLING LOGClient Name: New York City DEP OF ENVIRONMENTALClient Address: 3701 Jerome AveClient Rep on Site: Nicholas Proko PowiczSampling Date: 11-26-24Arrival Time: 600 Departure Time: 1020Project Name: Industrial w/ DischargeProject Location: BRONX, NYCooler Custody Seal: NATemperature Correction Factor (°C): NA**FIELD EQUIPMENT CALIBRATION (± 1%) (99% -101%)**

pH Calibration (± 1%) (99% -101%) (SM4500-H B/9040C)				
Calibration (± 1%) (99% -101%)				ICV (± 0.1 pH unit)
	7.00 Buffer	4.00 Buffer	10.00 Buffer	7.00 Buffer
	W 3071	W 3107	W 3094	W 3093
Time	0640	0643	0646	0649
Temp °C	18.41	18.81	18.95	18.07
pH	6.98	3.99	9.98	7.02

FIELD EQUIPMENT CALIBRATION (± 1%) (99% -101%)

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
Calibration (± 1%) (99% -101%)		ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date: [Signature] 11-26-24

Supervisor Review/Date: _____

Chemtech Project number:

Date: 11-26-24

Client Name: New York City DEP of Environment Client Project Name: Industrial w/ Discharge

Instructions: Composite metals, CyAnide, HexChran samples 4:1

Sample Custodian: IT

[illegible]



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5018	NEWY17	Order Date : 11/26/2024 12:20:00 PM	Project Mgr :
Client Name : New York City DEP of Env.		Project Name : Industrial Wastewater Disch	Report Type : Level 2
Client Contact : Nicholas Prokopowicz		Receive DateTime : 11/26/2024 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : New York City DEP of Env.		Purchase Order :	Hard Copy Date :
Invoice Contact : Nicholas Prokopowicz			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5018-01	14B-1	Water	11/26/2024	07:00					
					VOCMS Group1		624.1	10 Bus. Days	
P5018-02	14B-2	Water	11/26/2024	07:59					
					VOCMS Group1		624.1	10 Bus. Days	
P5018-03	14B-3	Water	11/26/2024	09:00					
					VOCMS Group1		624.1	10 Bus. Days	
P5018-04	14B-4	Water	11/26/2024	10:01					
					VOCMS Group1		624.1	10 Bus. Days	

Relinquished By :

Date / Time :

IT
11-26-24 1415

Received By :

Date / Time :

Sam
11/26/24 14:15 12/5

Storage Area : VOA Refridgerator Room