

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022124\
 Data File : VN081109.D
 Acq On : 21 Feb 2024 10:39
 Operator : JC\MD
 Sample : VN0221WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBL01

Quant Time: Feb 22 04:42:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

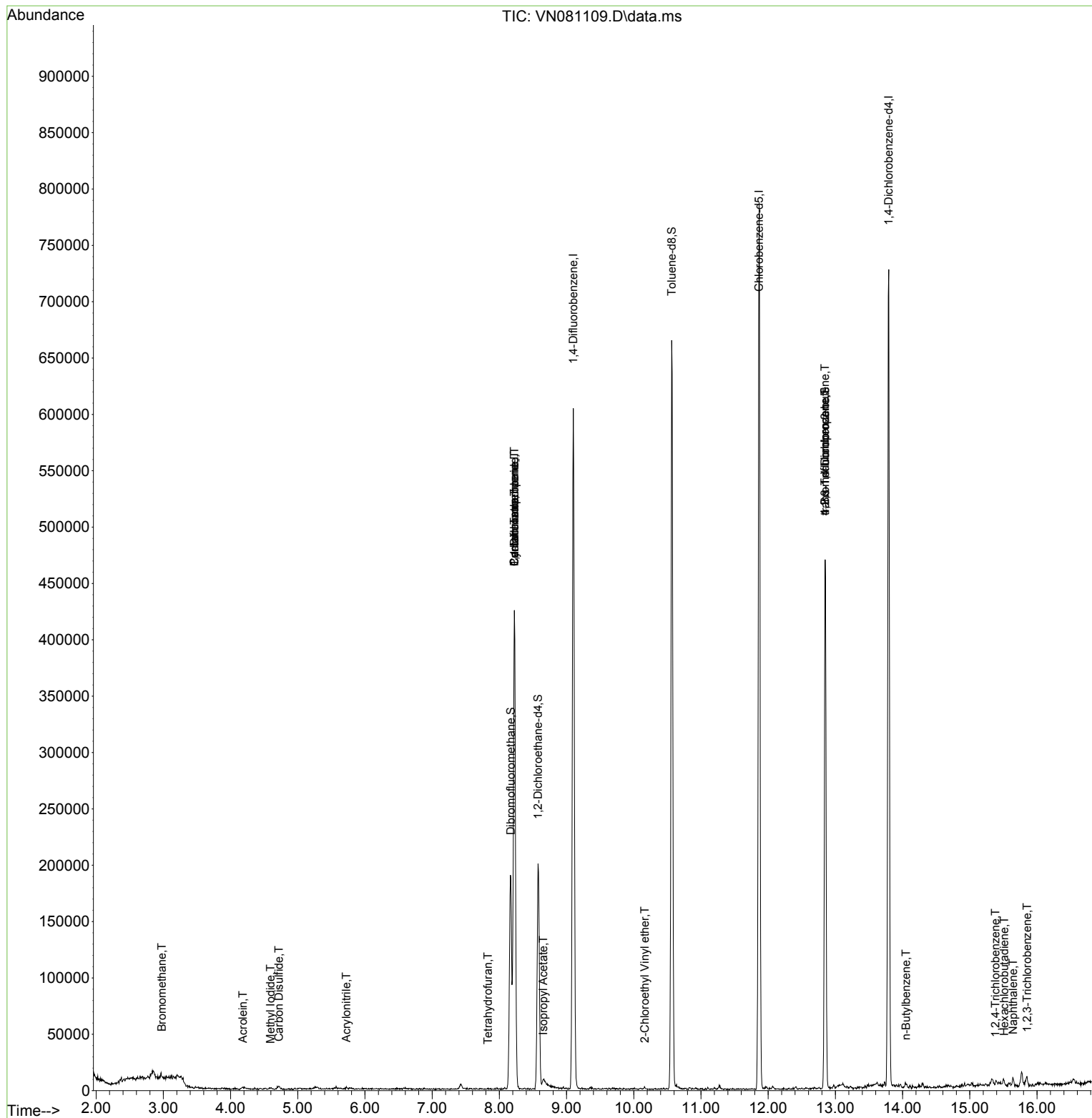
Internal Standards						
1) Pentafluorobenzene	8.224	168	300144	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	527062	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	452721	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	191388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162149	44.075	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	88.160%
35) Dibromofluoromethane	8.171	113	138646	46.520	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.040%
50) Toluene-d8	10.565	98	454948	42.978	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	85.960%#
62) 4-Bromofluorobenzene	12.847	95	163242	41.041	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	82.080%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1873	Below Cal		92
5) Bromomethane	2.977	94	1751	0.572 ug/l	#	60
6) Chloroethane	3.118	64	309	Below Cal	#	73
10) Methyl Iodide	4.594	142	2202	0.562 ug/l	#	80
13) Acrolein	4.183	56	1270	3.502 ug/l		100
15) Acrylonitrile	5.724	53	1162	0.658 ug/l	#	70
17) Carbon Disulfide	4.718	76	3868	0.409 ug/l	#	40
20) Methylene Chloride	5.283	84	1025	Below Cal	#	32
29) Tetrahydrofuran	7.830	42	324	0.208 ug/l	#	54
31) Cyclohexane	8.224	56	8252	1.299 ug/l	#	1
36) 1,1-Dichloropropene	8.224	75	25597	5.013 ug/l	#	50
38) Carbon Tetrachloride	8.224	117	34048	6.591 ug/l	#	17
43) Isopropyl Acetate	8.653	43	8350	1.036 ug/l	#	57
58) 2-Chloroethyl Vinyl ether	10.165	63	682	0.247 ug/l	#	52
76) 1,2,3-Trichloropropane	12.847	75	89968	20.690 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.847	75	89968	53.253 ug/l	#	14
89) n-Butylbenzene	14.053	91	2745	0.232 ug/l	#	75
93) 1,2,4-Trichlorobenzene	15.382	180	1821	0.480 ug/l		94
94) Hexachlorobutadiene	15.511	225	1043	0.737 ug/l		74
95) Naphthalene	15.647	128	6415	0.461 ug/l	#	88
96) 1,2,3-Trichlorobenzene	15.853	180	908	0.241 ug/l	#	1

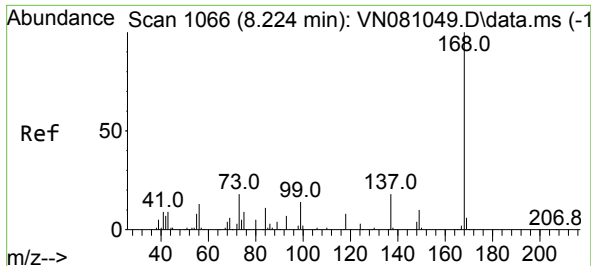
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

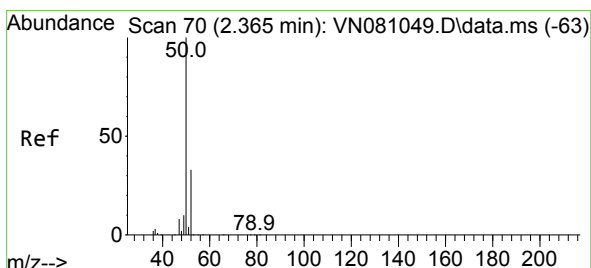
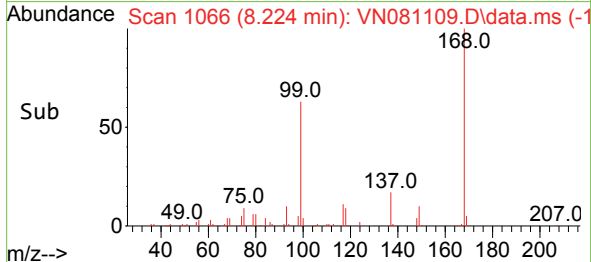
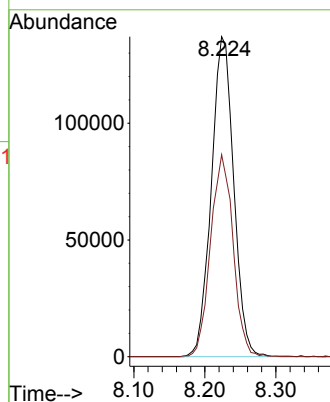
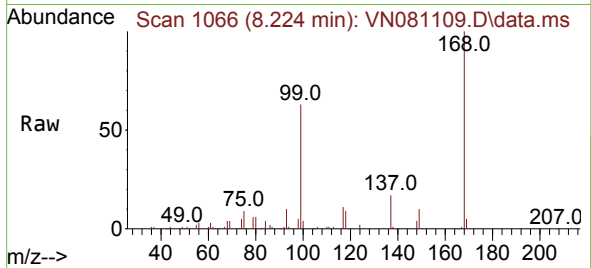




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

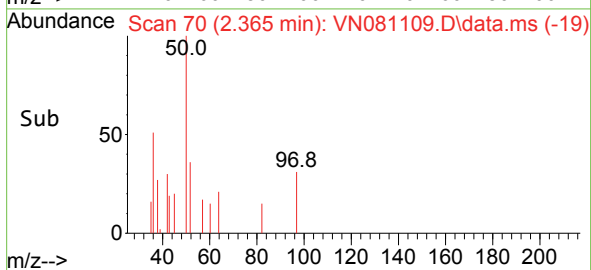
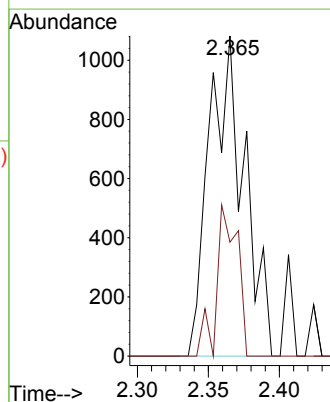
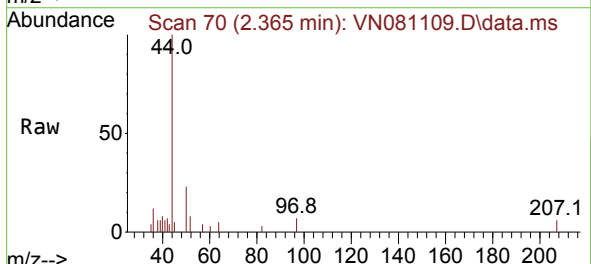
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

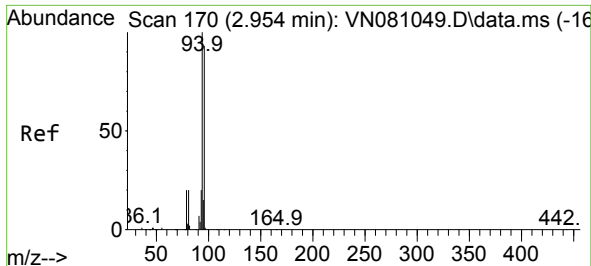
Tgt Ion:168 Resp: 300144
Ion Ratio Lower Upper
168 100
99 63.1 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Tgt Ion: 50 Resp: 1873
Ion Ratio Lower Upper
50 100
52 35.6 25.0 37.4

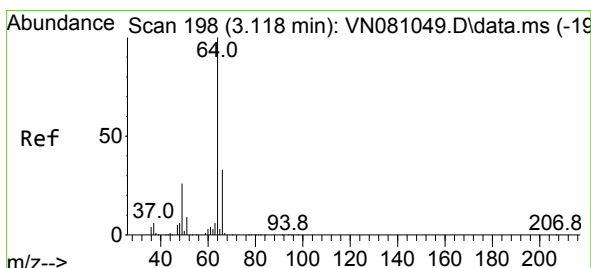
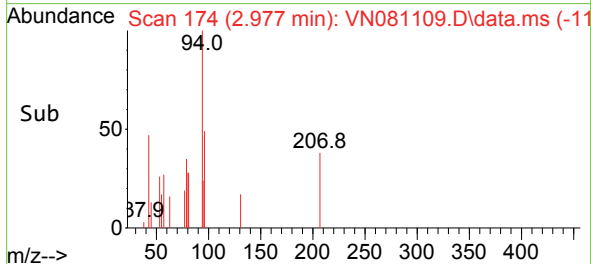
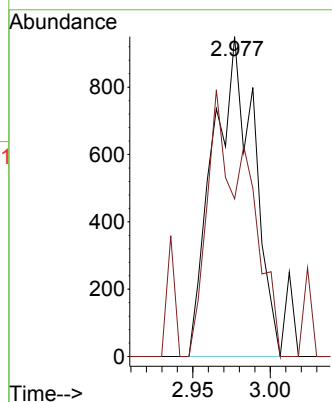
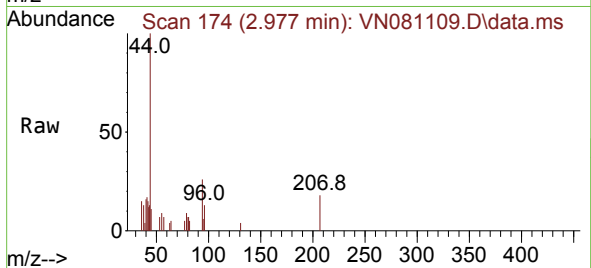




#5
Bromomethane
Concen: 0.572 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

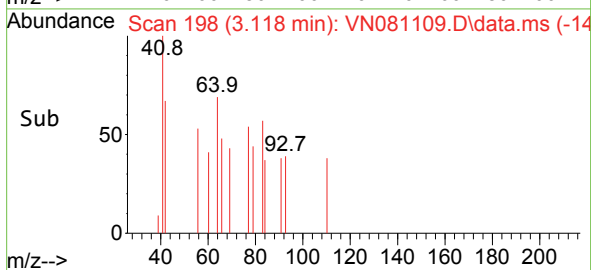
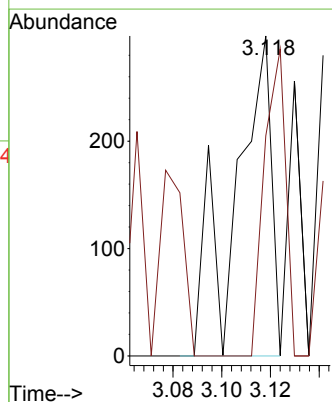
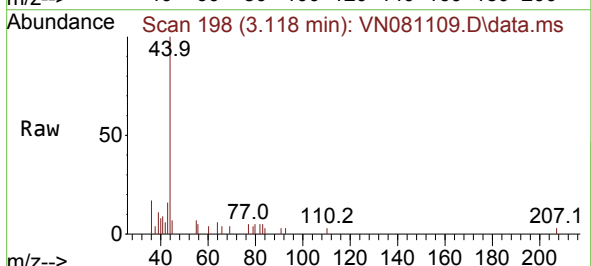
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

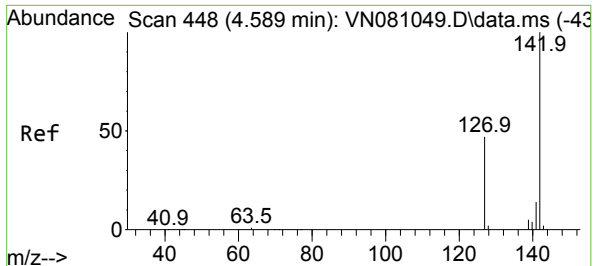
Tgt Ion: 94 Resp: 1751
Ion Ratio Lower Upper
94 100
96 49.3 69.2 103.8#



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

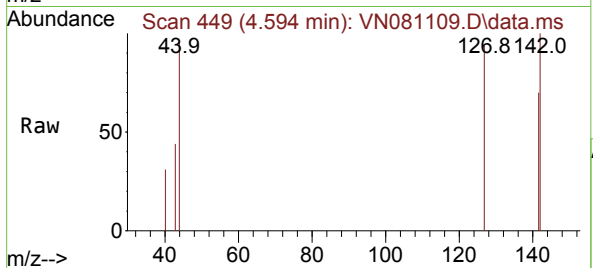
Tgt Ion: 64 Resp: 309
Ion Ratio Lower Upper
64 100
66 17.8 26.4 39.6#



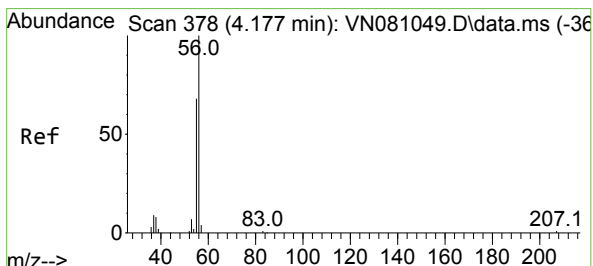
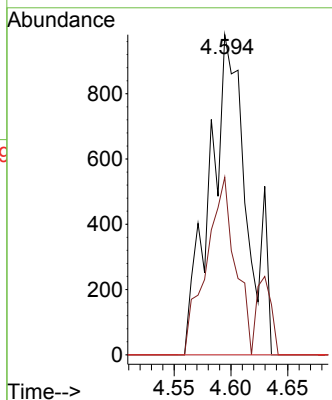
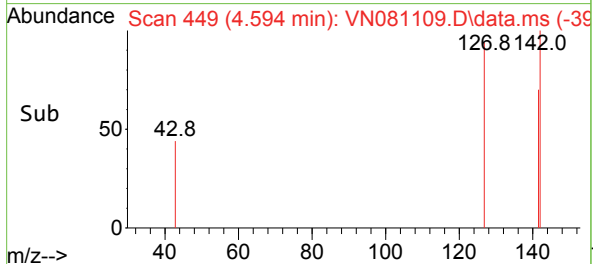


#10
Methyl Iodide
Concen: 0.562 ug/l
RT: 4.594 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

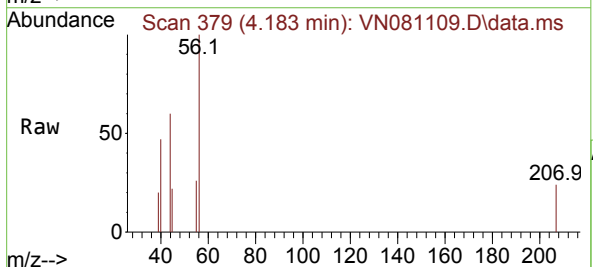
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01



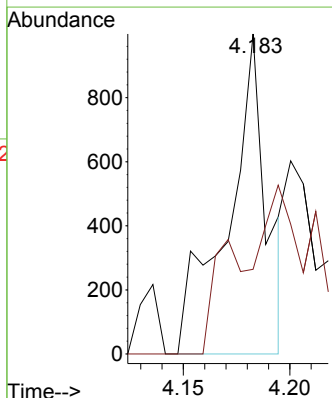
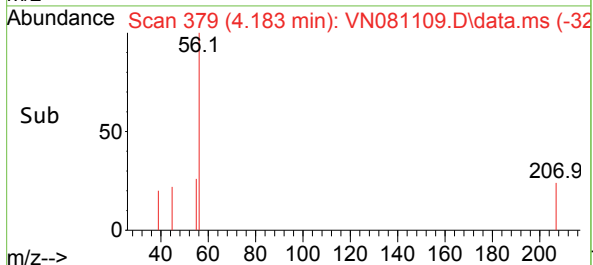
Tgt Ion:142 Resp: 2202
Ion Ratio Lower Upper
142 100
127 55.5 37.0 55.4#
141 0.0 12.5 18.7#

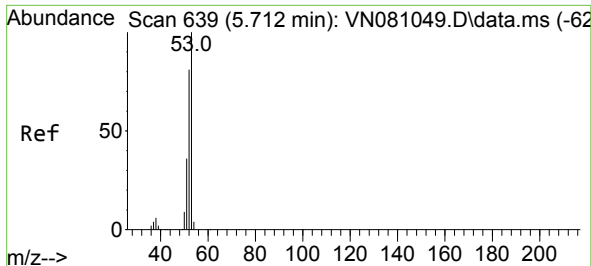


#13
Acrolein
Concen: 3.502 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39



Tgt Ion: 56 Resp: 1270
Ion Ratio Lower Upper
56 100
55 69.2 55.3 82.9





#15

Acrylonitrile

Concen: 0.658 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.012 min

Lab File: VN081109.D

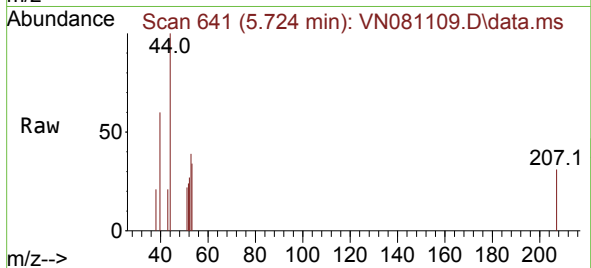
Acq: 21 Feb 2024 10:39

Instrument :

MSVOA_N

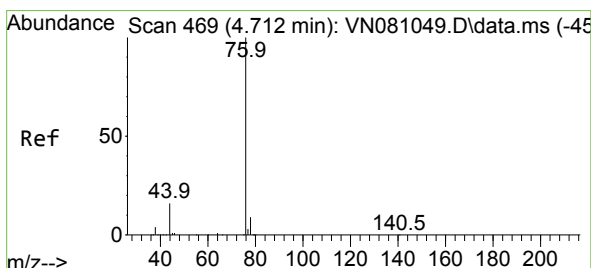
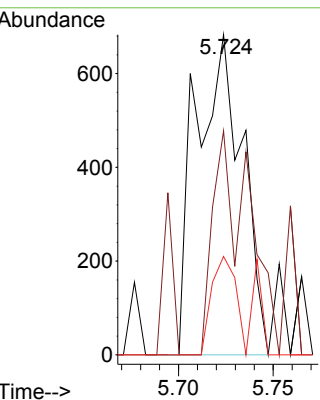
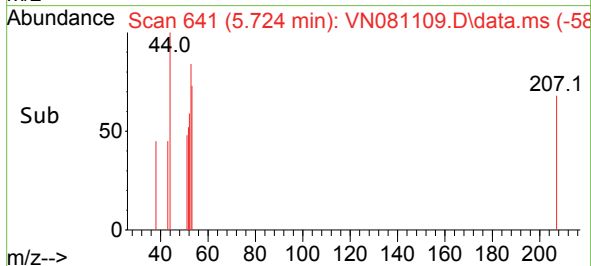
ClientSampleId :

VN0221WBL01



Tgt Ion: 53 Resp: 1162

Ion	Ratio	Lower	Upper
53	100		
52	54.8	64.8	97.2#
51	16.1	26.9	40.3#



#17

Carbon Disulfide

Concen: 0.409 ug/l

RT: 4.718 min Scan# 470

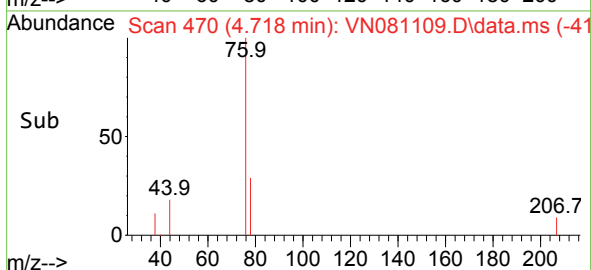
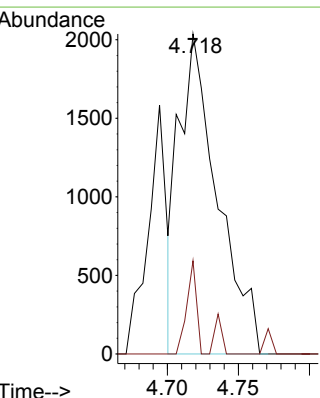
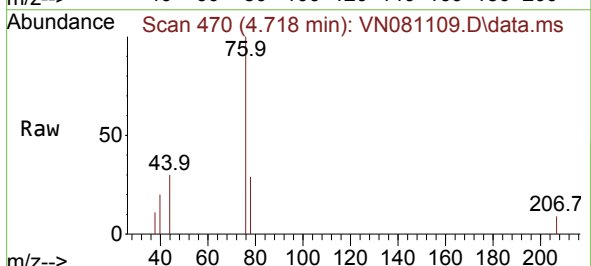
Delta R.T. 0.006 min

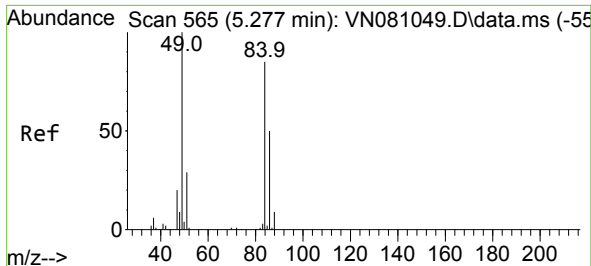
Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

Tgt Ion: 76 Resp: 3868

Ion	Ratio	Lower	Upper
76	100		
78	29.1	6.3	9.5#

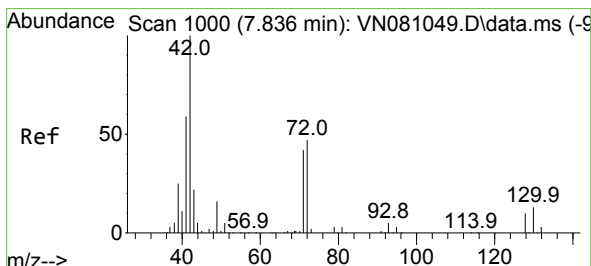
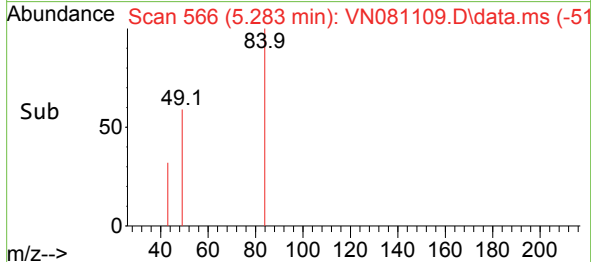
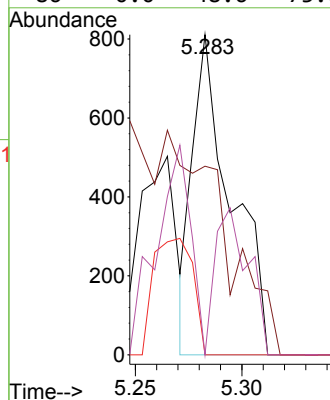
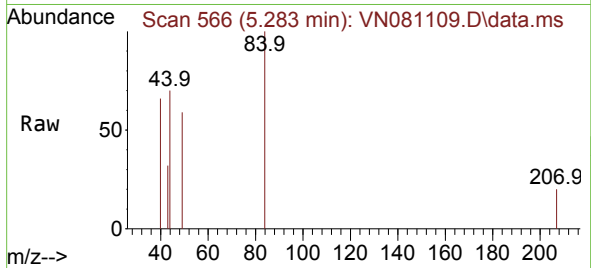




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

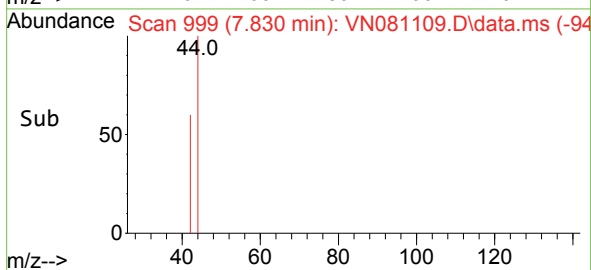
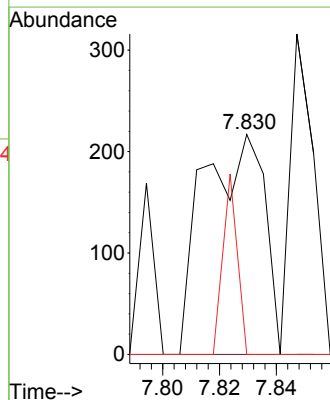
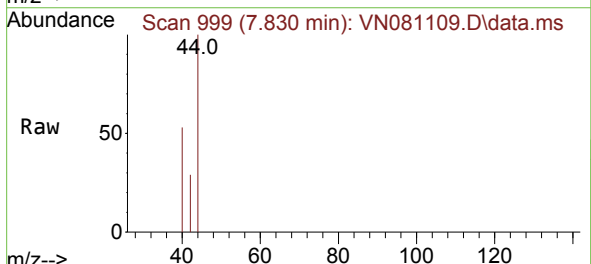
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

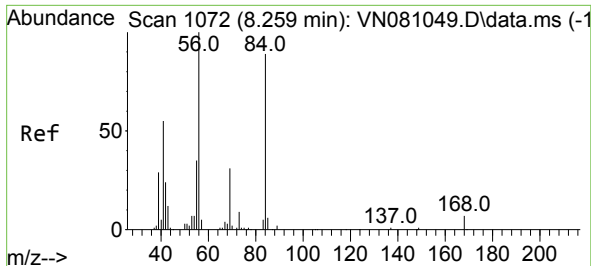
Tgt Ion:	84	Resp:	1025
Ion	Ratio	Lower	Upper
84	100		
49	58.9	108.1	162.1#
51	0.0	32.9	49.3#
86	0.0	48.6	73.0#



#29
Tetrahydrofuran
Concen: 0.208 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

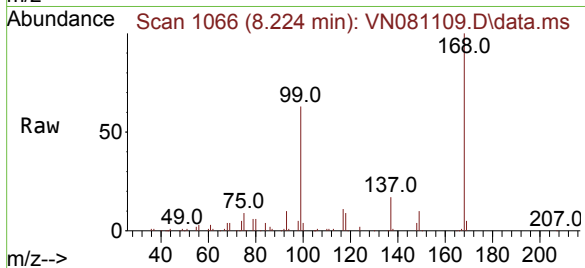
Tgt Ion:	42	Resp:	324
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.1	46.7#
71	19.4	28.3	42.5#



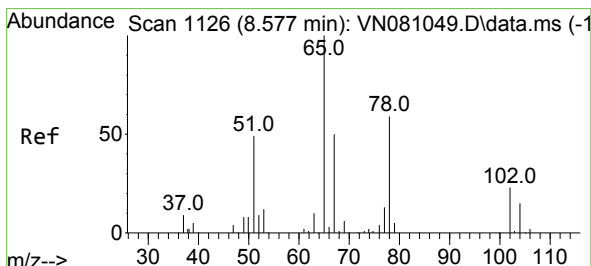
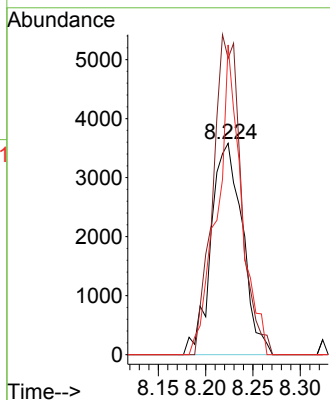
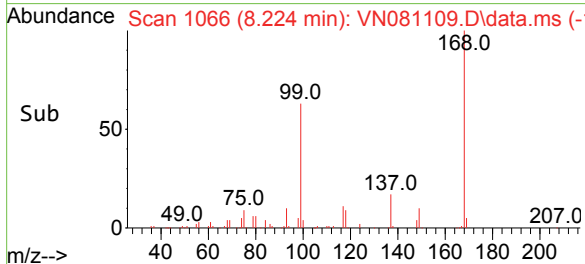


#31
Cyclohexane
Concen: 1.299 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Instrument :
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ClientSampleId :
VN0221WBL01

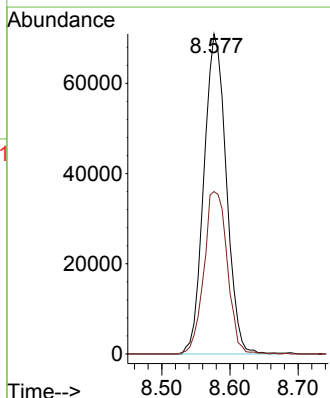
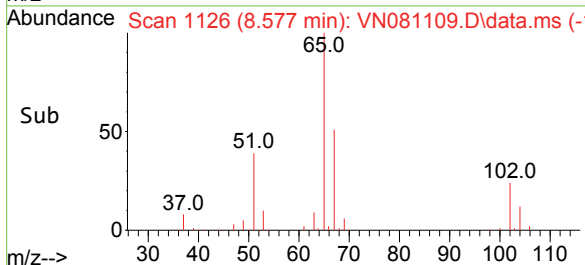
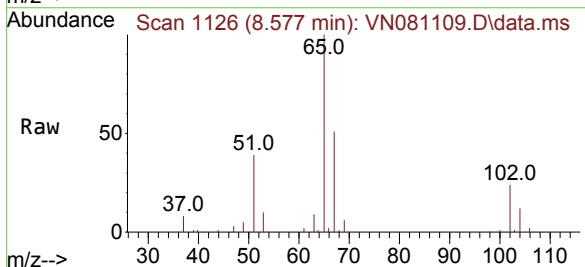


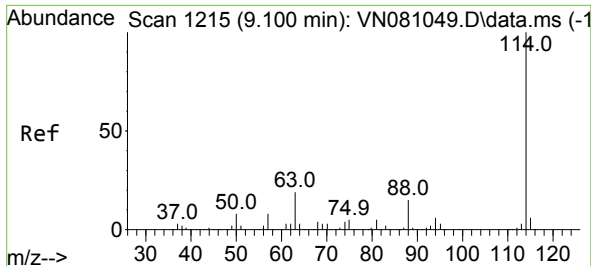
Tgt Ion: 56 Resp: 8252
Ion Ratio Lower Upper
56 100
69 140.2 20.1 30.1#
84 146.6 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 44.075 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Tgt Ion: 65 Resp: 162149
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBL01

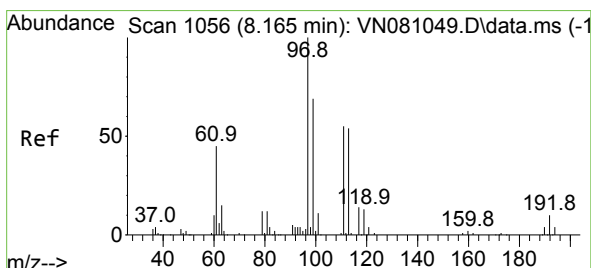
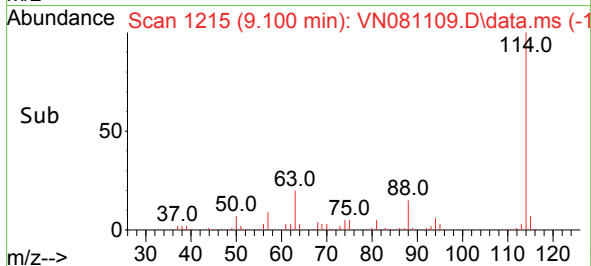
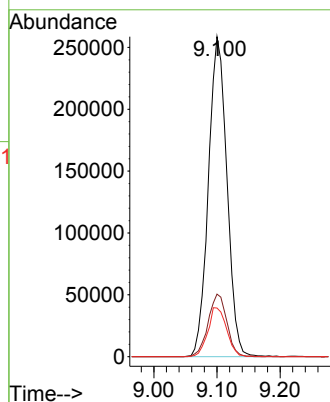
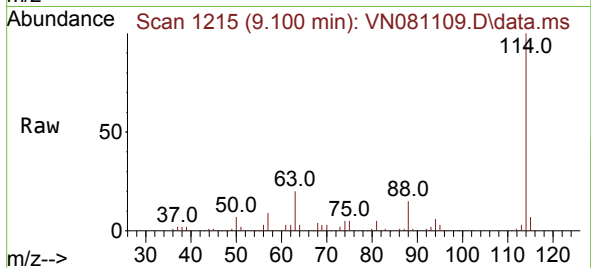
Tgt Ion:114 Resp: 527062

Ion Ratio Lower Upper

114 100

63 19.5 0.0 48.0

88 15.2 0.0 34.8



#35

Dibromofluoromethane

Concen: 46.520 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

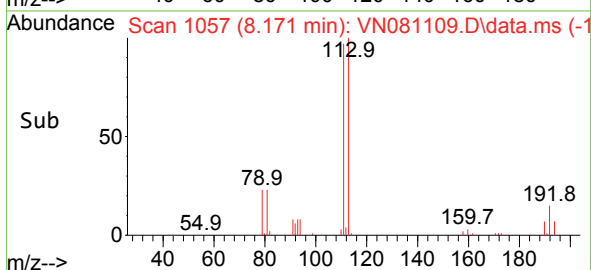
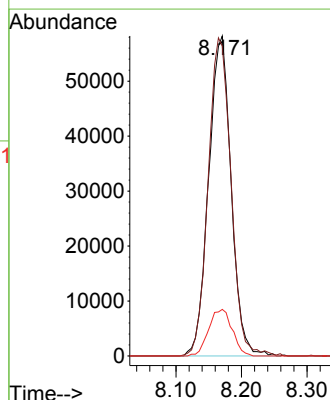
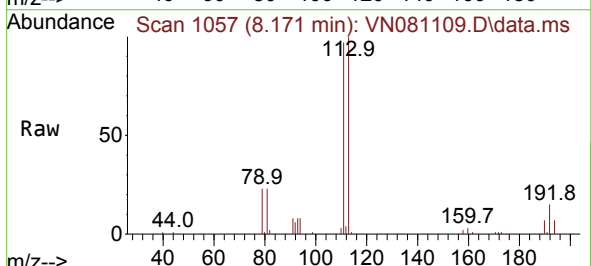
Tgt Ion:113 Resp: 138646

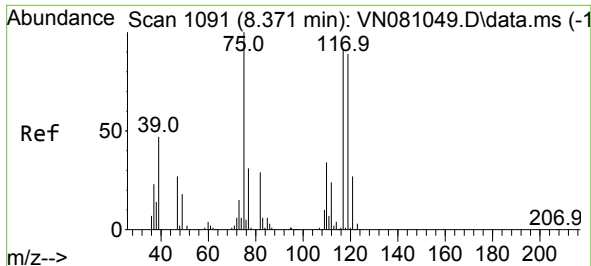
Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.4

192 15.2 12.5 18.7





#36

1,1-Dichloropropene

Concen: 5.013 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBL01

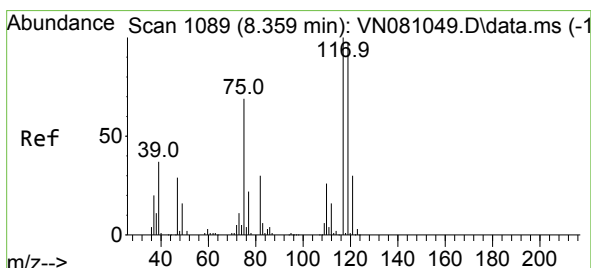
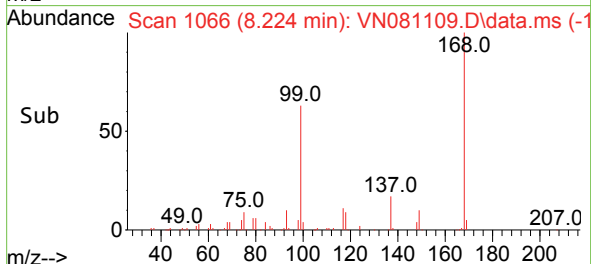
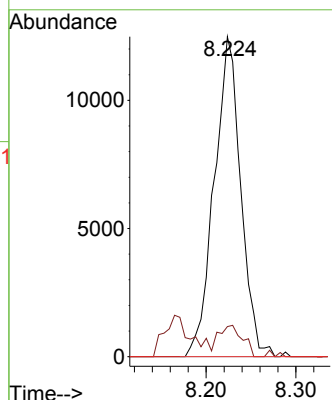
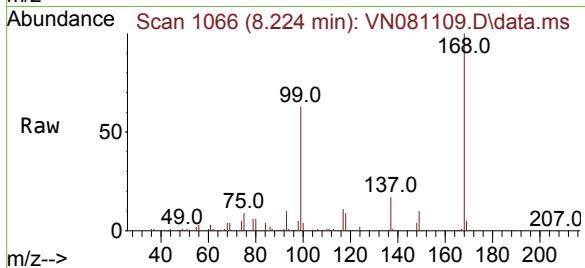
Tgt Ion: 75 Resp: 25597

Ion Ratio Lower Upper

75 100

110 8.8 16.0 48.0#

77 0.0 25.8 38.6#



#38

Carbon Tetrachloride

Concen: 6.591 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

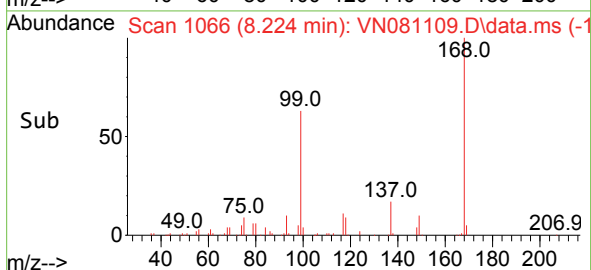
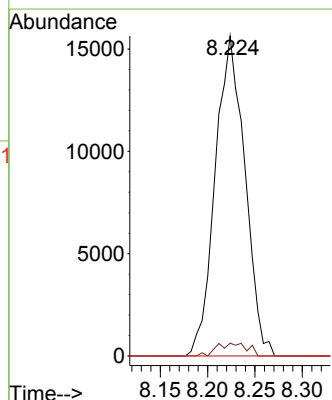
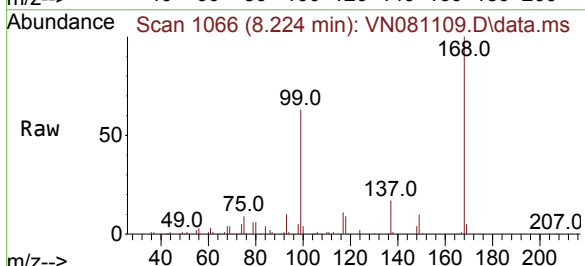
Tgt Ion: 117 Resp: 34048

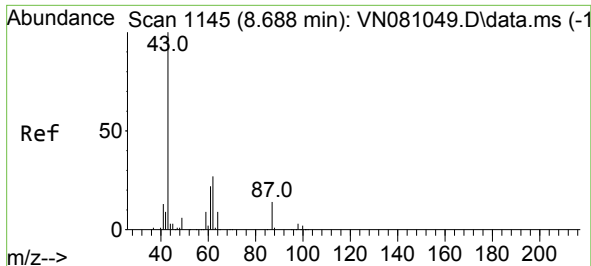
Ion Ratio Lower Upper

117 100

119 4.0 73.4 110.2#

121 0.0 24.4 36.6#

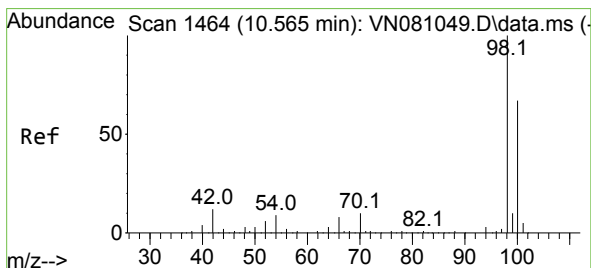
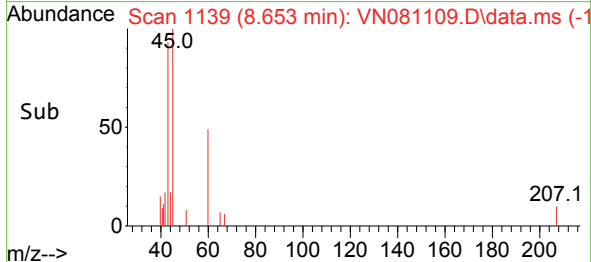
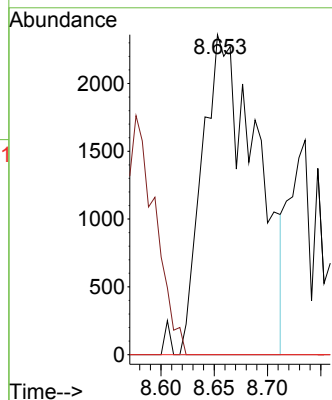
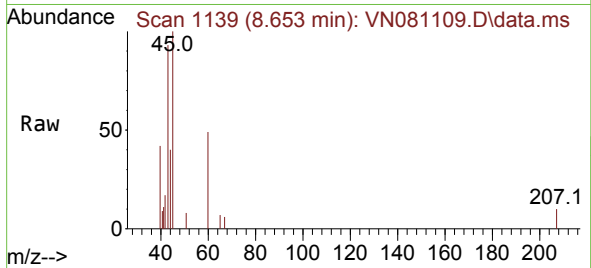




#43
Isopropyl Acetate
Concen: 1.036 ug/l
RT: 8.653 min Scan# 1145
Delta R.T. -0.035 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

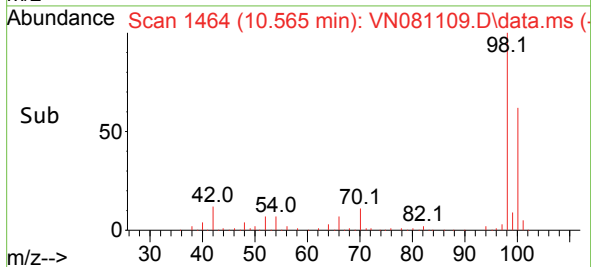
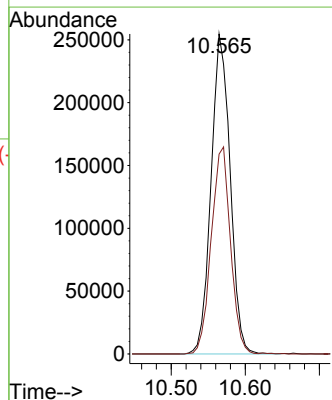
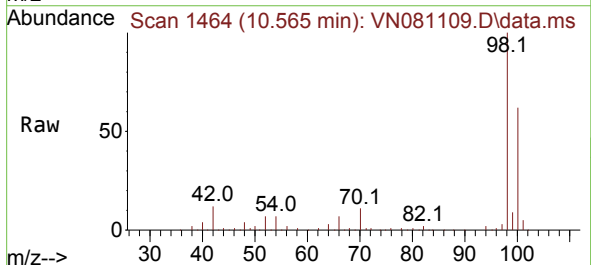
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

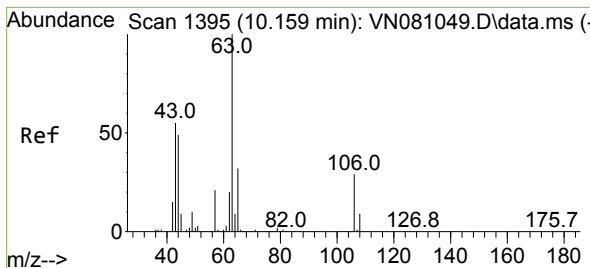
Tgt Ion: 43 Resp: 8350
Ion Ratio Lower Upper
43 100
61 0.0 19.9 29.9#
87 0.0 9.0 13.6#



#50
Toluene-d8
Concen: 42.978 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Tgt Ion: 98 Resp: 454948
Ion Ratio Lower Upper
98 100
100 65.3 51.4 77.0

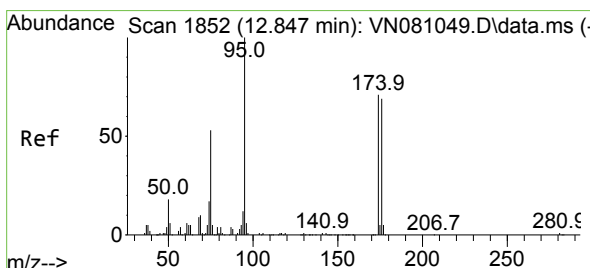
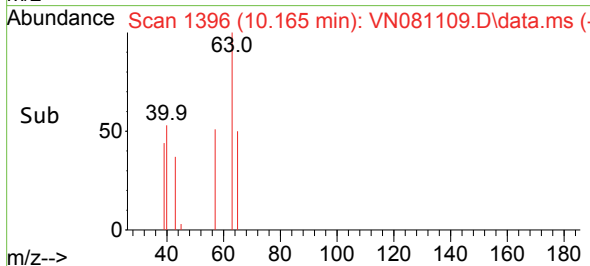
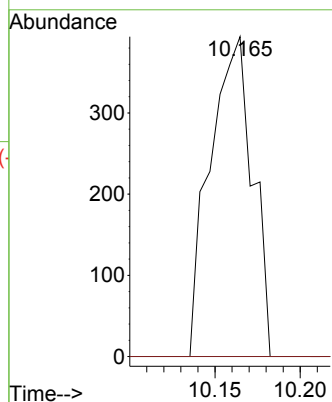
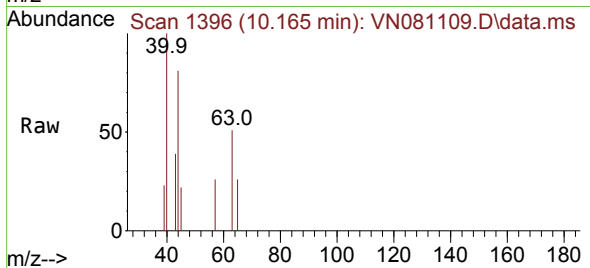




#58
2-Chloroethyl Vinyl ether
Concen: 0.247 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

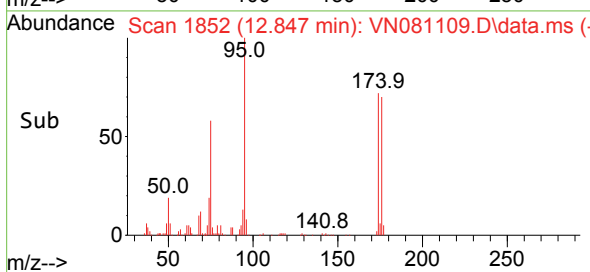
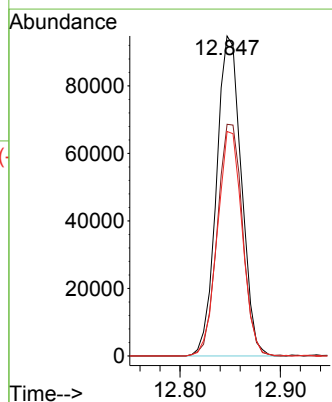
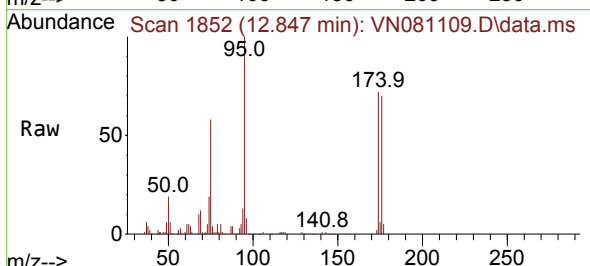
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

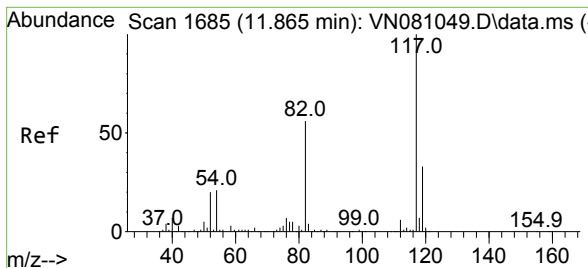
Tgt Ion: 63 Resp: 682
Ion Ratio Lower Upper
63 100
106 0.0 18.6 28.0#



#62
4-Bromofluorobenzene
Concen: 41.041 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Tgt Ion: 95 Resp: 163242
Ion Ratio Lower Upper
95 100
174 73.4 0.0 120.4
176 70.3 0.0 121.0

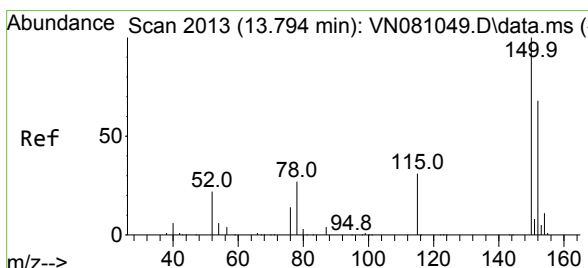
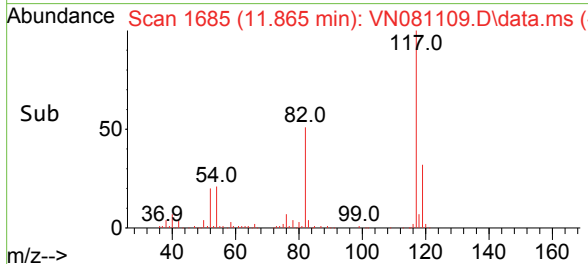
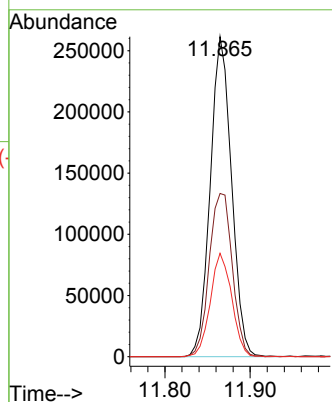
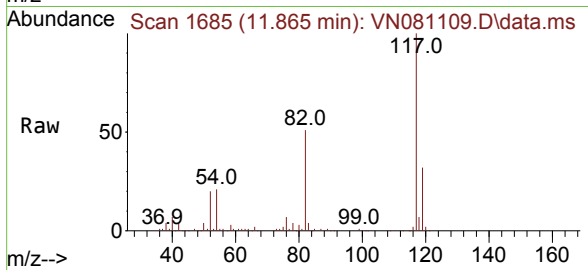




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

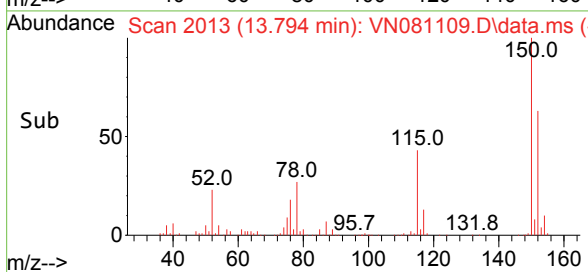
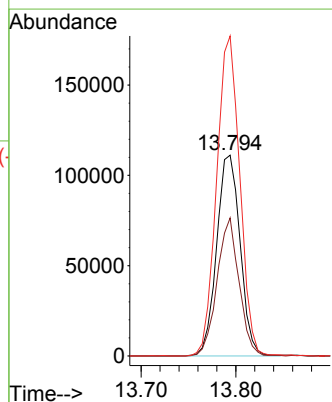
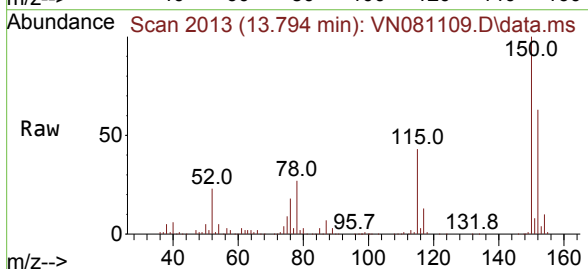
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

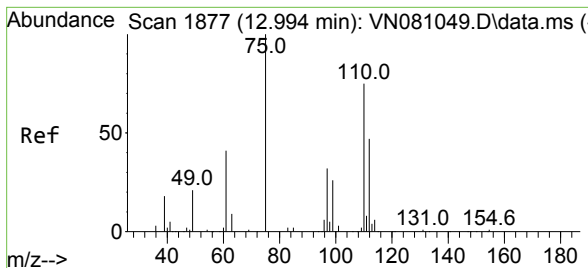
Tgt Ion:117 Resp: 452721
Ion Ratio Lower Upper
117 100
82 51.0 52.7 79.1#
119 32.3 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

Tgt Ion:152 Resp: 191388
Ion Ratio Lower Upper
152 100
115 64.4 32.3 96.8
150 157.5 0.0 339.8





#76

1,2,3-Trichloropropane

Concen: 20.690 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

Instrument :

MSVOA_N

ClientSampleId :

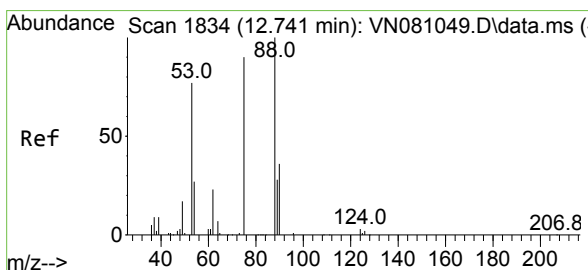
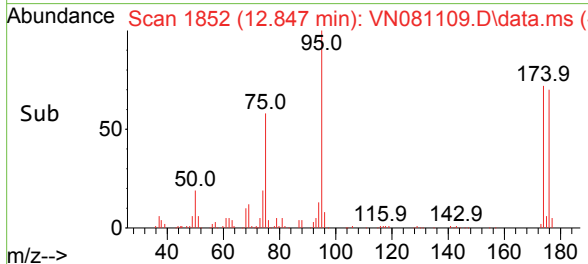
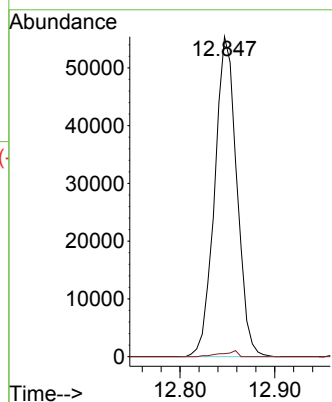
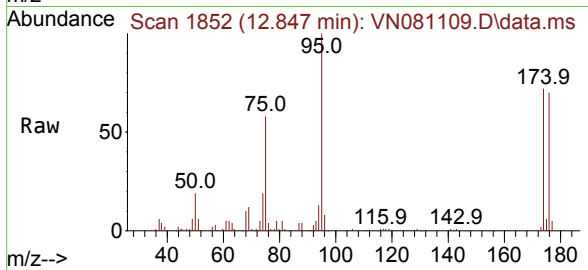
VN0221WBL01

Tgt Ion: 75 Resp: 89968

Ion Ratio Lower Upper

75 100

77 1.3 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.253 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

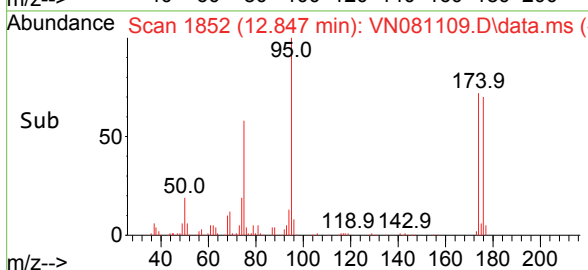
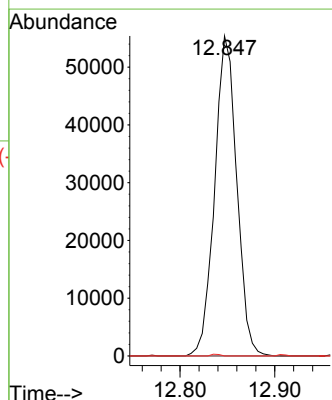
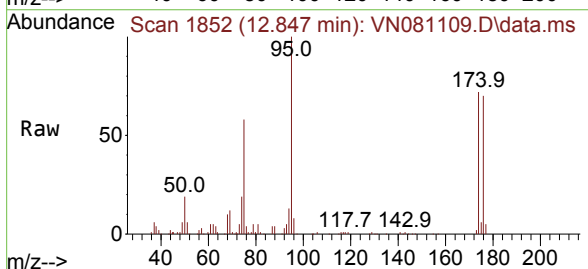
Tgt Ion: 75 Resp: 89968

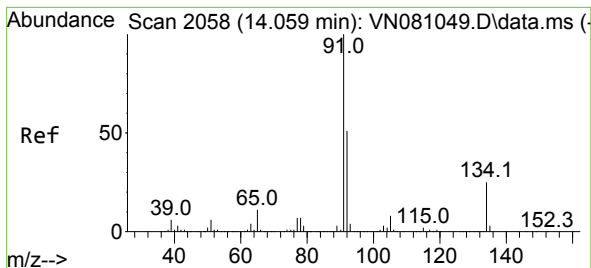
Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.2 33.4 50.0#





#89

n-Butylbenzene

Concen: 0.232 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBL01

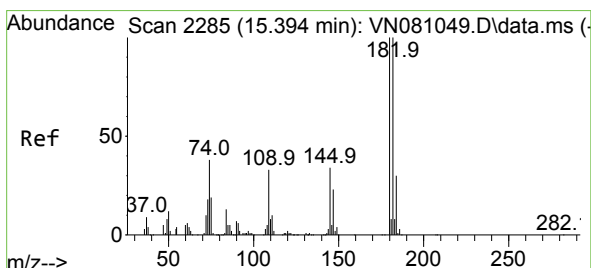
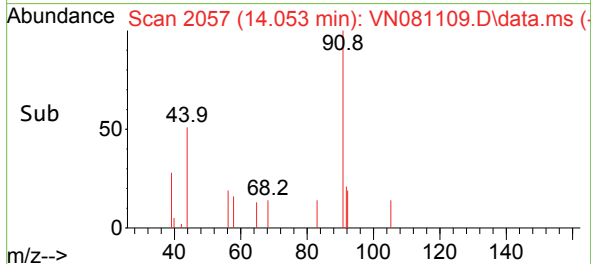
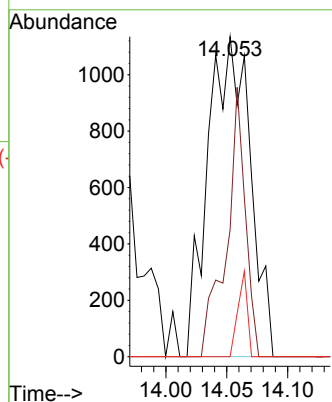
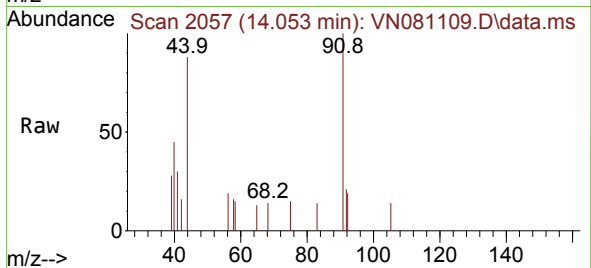
Tgt Ion: 91 Resp: 2745

Ion Ratio Lower Upper

91 100

92 37.6 26.7 80.1

134 5.9 10.8 32.4#



#93

1,2,4-Trichlorobenzene

Concen: 0.480 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. -0.012 min

Lab File: VN081109.D

Acq: 21 Feb 2024 10:39

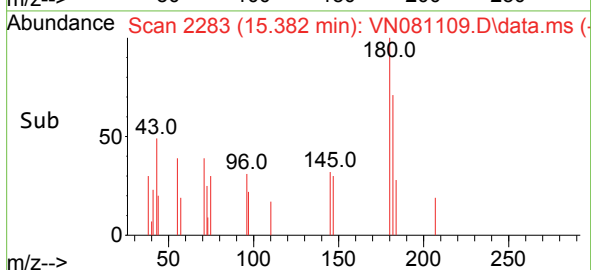
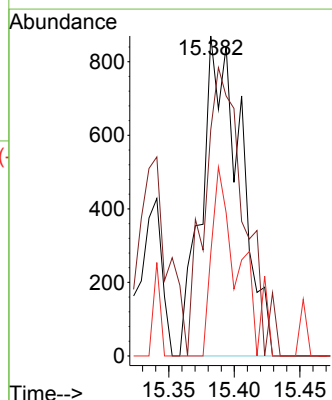
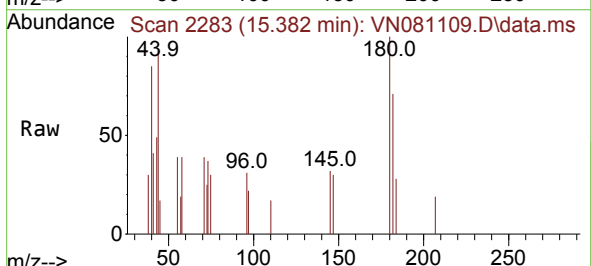
Tgt Ion: 180 Resp: 1821

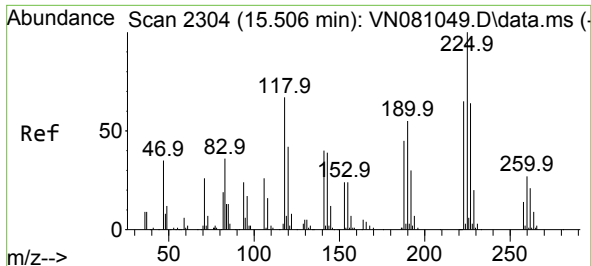
Ion Ratio Lower Upper

180 100

182 89.8 46.6 139.7

145 41.2 16.8 50.3

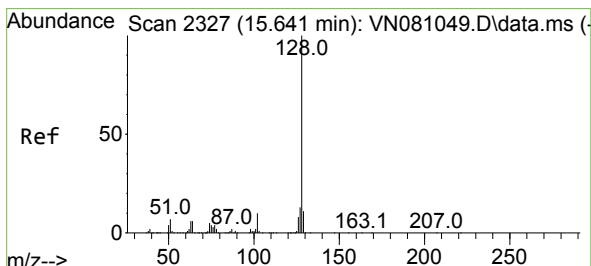
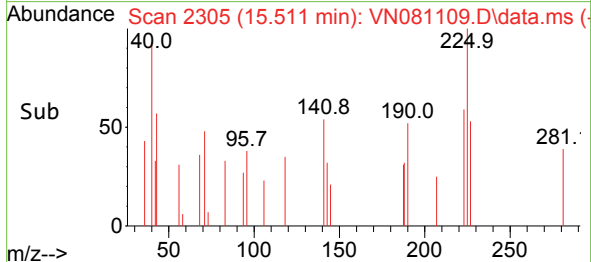
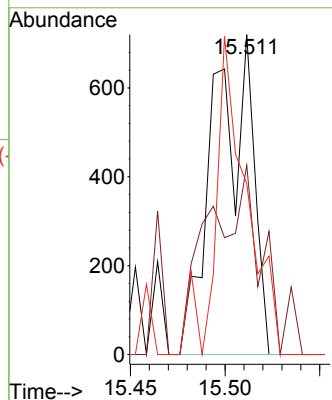
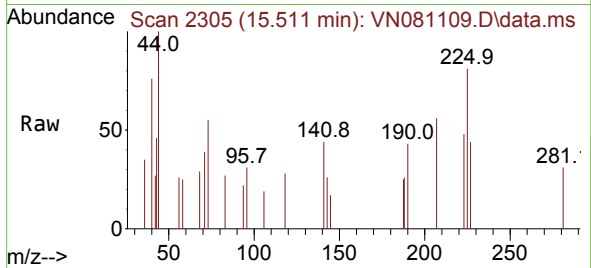




#94
Hexachlorobutadiene
Concen: 0.737 ug/l
RT: 15.511 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

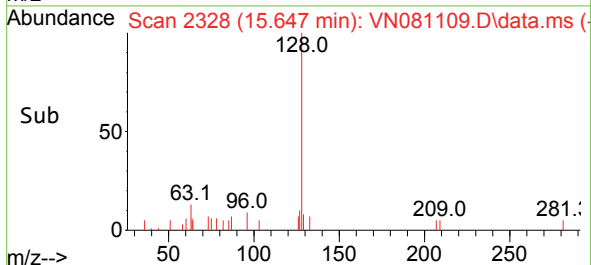
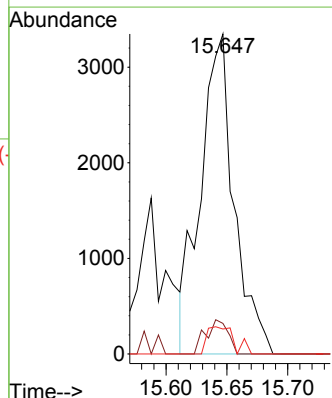
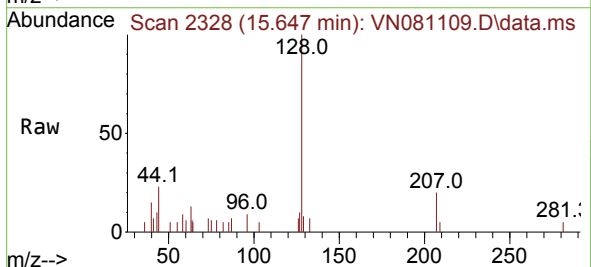
Instrument :
MSVOA_N
ClientSampleId :
VN0221WBL01

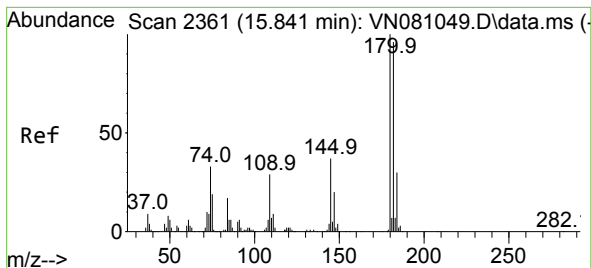
Tgt Ion:225 Resp: 1043
Ion Ratio Lower Upper
225 100
223 37.1 33.3 99.8
227 78.6 33.1 99.2



#95
Naphthalene
Concen: 0.461 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN081109.D
Acq: 21 Feb 2024 10:39

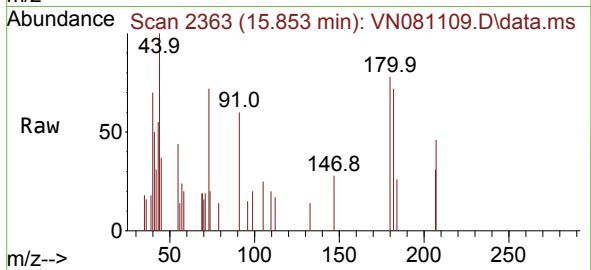
Tgt Ion:128 Resp: 6415
Ion Ratio Lower Upper
128 100
127 7.1 10.0 15.0#
129 6.9 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.241 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN081109.D
 Acq: 21 Feb 2024 10:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBL01



Tgt Ion	Ratio	Lower	Upper
180	100		
182	217.0	46.5	139.3#
145	0.0	17.8	53.4#

