

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042523\
 Data File : VN077477.D
 Acq On : 25 Apr 2023 18:21
 Operator : JC\MD
 Sample : 02460-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Apr 26 04:22:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

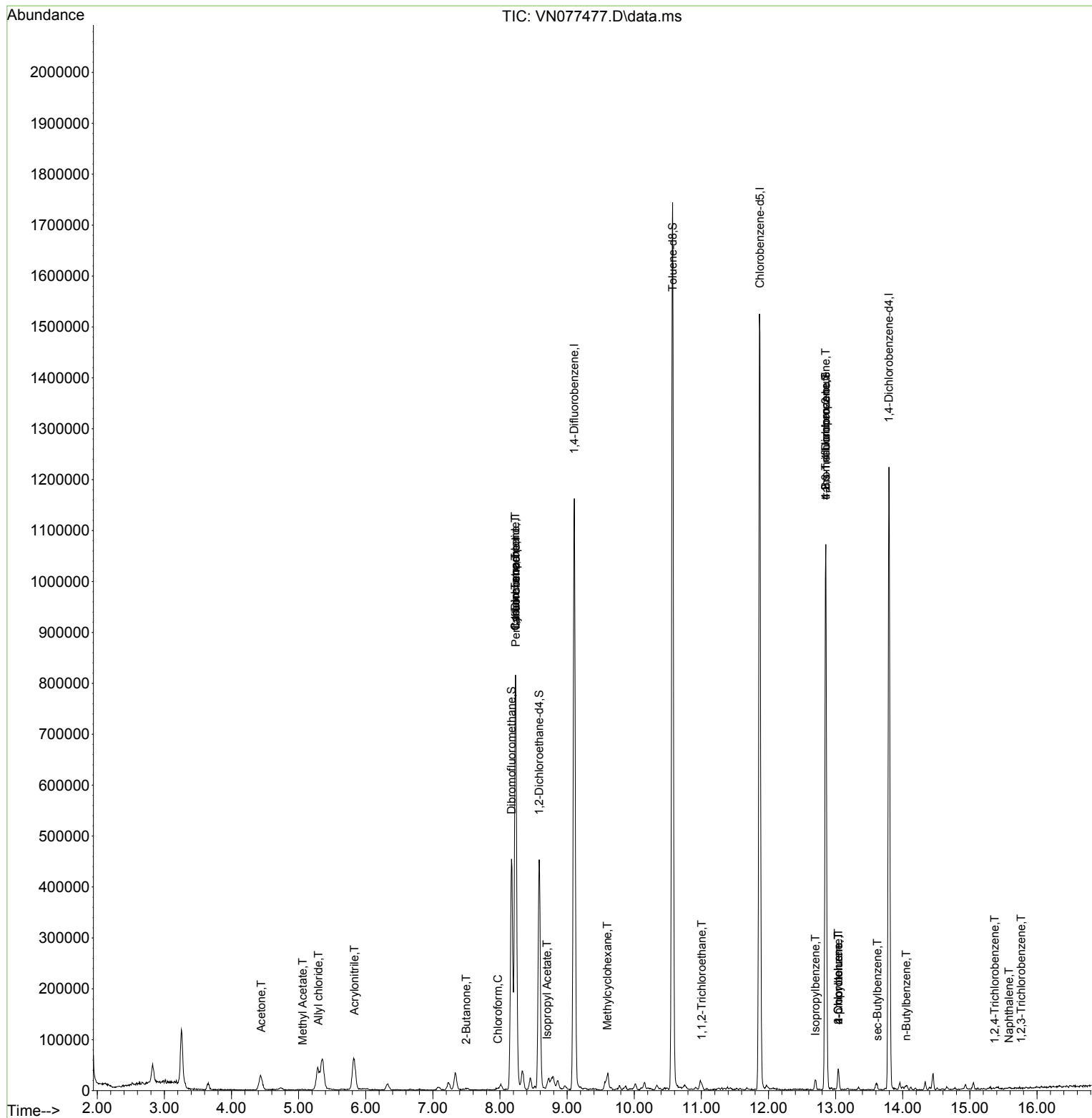
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	574468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1070198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	942118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	331330	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	369486	49.290	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.580%
35) Dibromofluoromethane	8.172	113	331982	51.611	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.220%
50) Toluene-d8	10.572	98	1280997	51.962	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.920%
62) 4-Bromofluorobenzene	12.854	95	394222	48.876	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.760%
Target Compounds						
					Qvalue	
14) Allyl chloride	5.295	41	19139	2.685	ug/l #	19
15) Acrylonitrile	5.831	53	2478	0.908	ug/l #	35
16) Acetone	4.442	43	17472	7.326	ug/l #	63
18) Methyl Acetate	5.060	43	2147	0.233	ug/l #	42
25) 2-Butanone	7.495	43	1647	0.487	ug/l #	37
30) Chloroform	7.972	83	3952	0.303	ug/l	91
31) Cyclohexane	8.230	56	23262	2.191	ug/l #	69
36) 1,1-Dichloropropene	8.230	75	49765	5.355	ug/l #	48
38) Carbon Tetrachloride	8.230	117	65455	6.384	ug/l #	15
39) Methylcyclohexane	9.601	83	15177	1.240	ug/l #	87
43) Isopropyl Acetate	8.701	43	3279	0.268	ug/l #	49
55) 1,1,2-Trichloroethane	11.007	97	2860	0.383	ug/l #	22
73) Isopropylbenzene	12.701	105	13914	0.453	ug/l	96
76) 1,2,3-Trichloropropane	12.854	75	213161	27.666	ug/l #	1
78) n-propylbenzene	13.042	91	34458	1.014	ug/l	98
79) 2-Chlorotoluene	13.042	91	34458	1.644	ug/l #	42
81) trans-1,4-Dichloro-2-b...	12.854	75	213161	78.162	ug/l #	15
82) 4-Chlorotoluene	13.042	91	34458	1.759	ug/l #	41
85) sec-Butylbenzene	13.624	105	6537	0.215	ug/l #	57
89) n-Butylbenzene	14.054	91	5943	0.328	ug/l	86
93) 1,2,4-Trichlorobenzene	15.371	180	250	0.901	ug/l	85
95) Naphthalene	15.583	128	2329	1.403	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.765	180	301	0.610	ug/l #	13

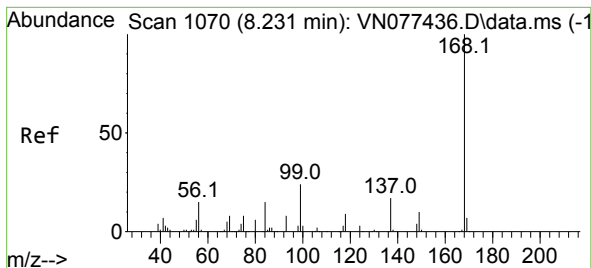
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077477.D

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ClientSampleId :

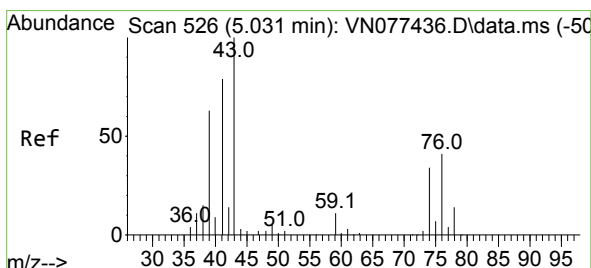
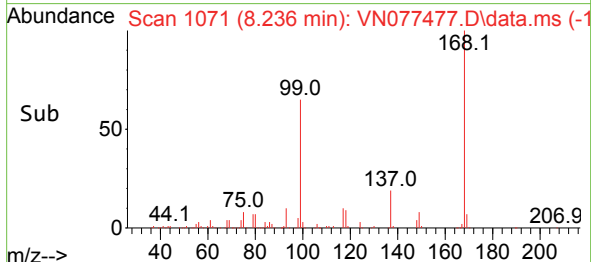
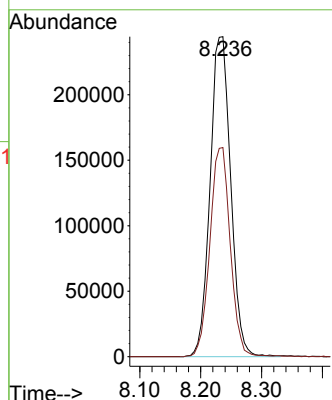
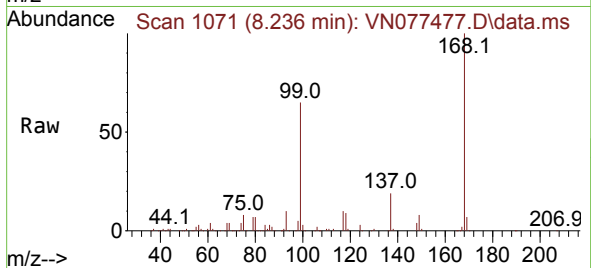
MW-2

Tgt Ion:168 Resp: 574468

Ion Ratio Lower Upper

168 100

99 65.4 53.0 79.6



#14

Allyl chloride

Concen: 2.685 ug/l

RT: 5.295 min Scan# 571

Delta R.T. 0.265 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

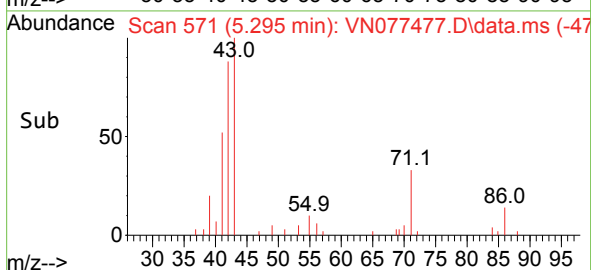
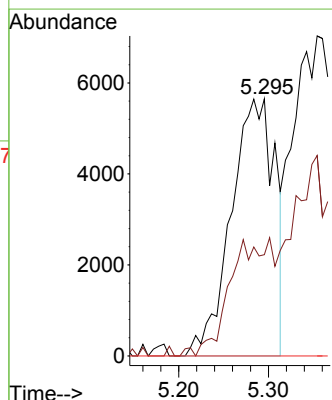
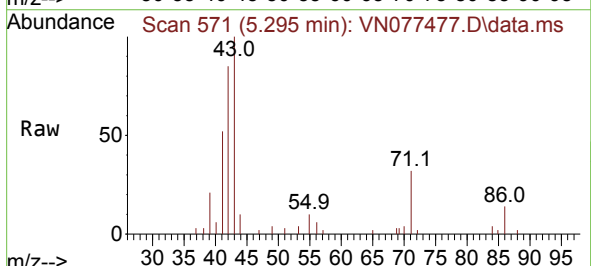
Tgt Ion: 41 Resp: 19139

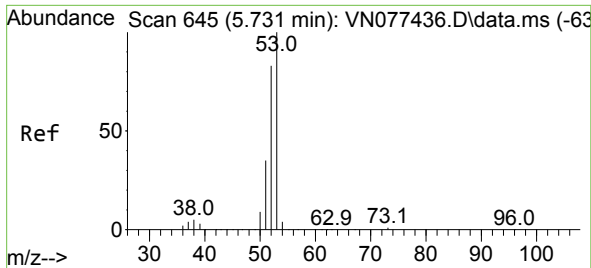
Ion Ratio Lower Upper

41 100

39 0.0 58.8 88.2#

76 0.0 39.1 58.7#





#15

Acrylonitrile

Concen: 0.908 ug/l

RT: 5.831 min Scan# 6

Delta R.T. 0.100 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

MW-2

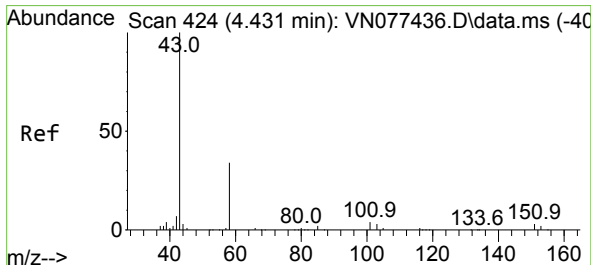
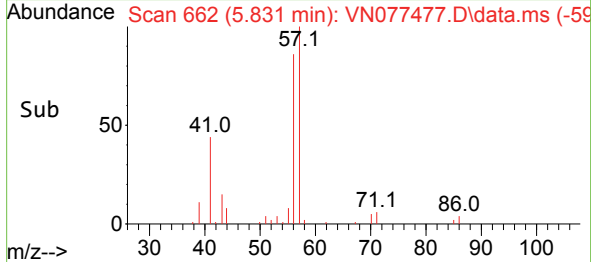
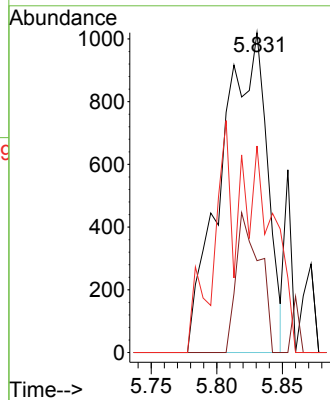
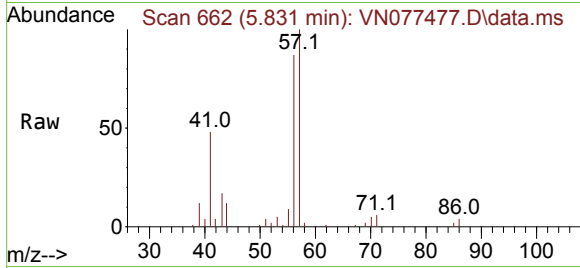
Tgt Ion: 53 Resp: 2478

Ion Ratio Lower Upper

53 100

52 22.5 65.3 97.9#

51 0.0 28.9 43.3#



#16

Acetone

Concen: 7.326 ug/l

RT: 4.442 min Scan# 426

Delta R.T. 0.012 min

Lab File: VN077477.D

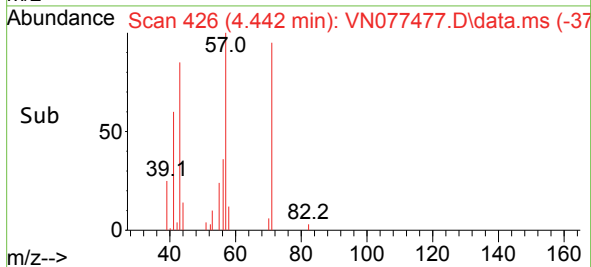
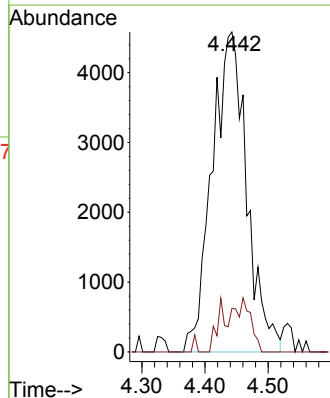
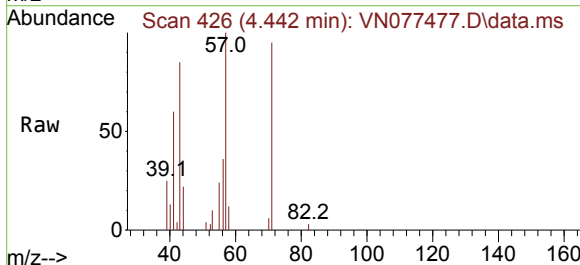
Acq: 25 Apr 2023 18:21

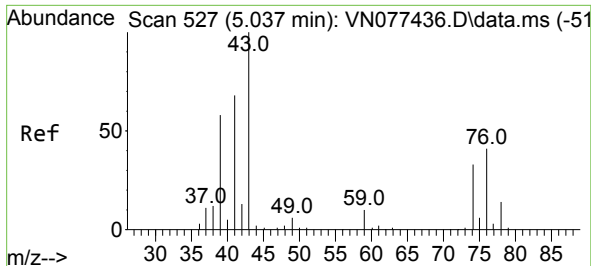
Tgt Ion: 43 Resp: 17472

Ion Ratio Lower Upper

43 100

58 13.6 28.0 42.0#

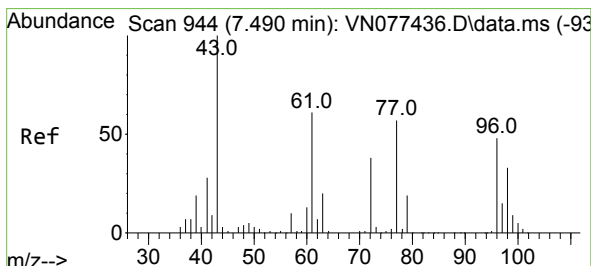
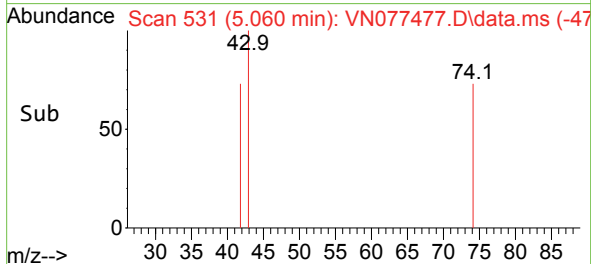
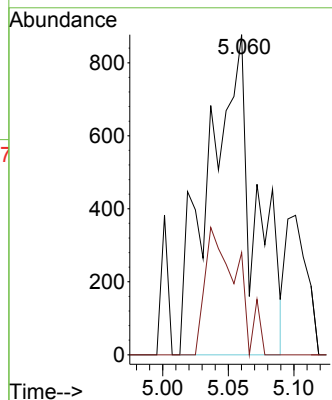
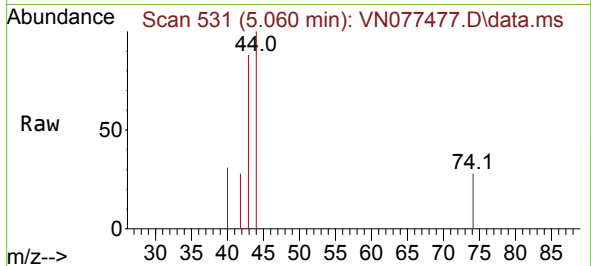




#18
Methyl Acetate
Concen: 0.233 ug/l
RT: 5.060 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

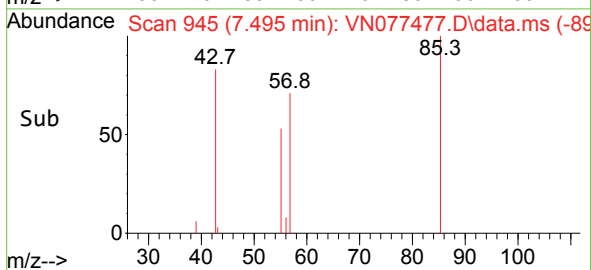
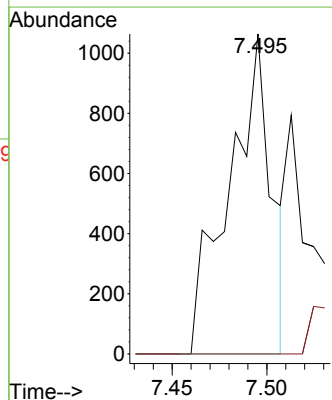
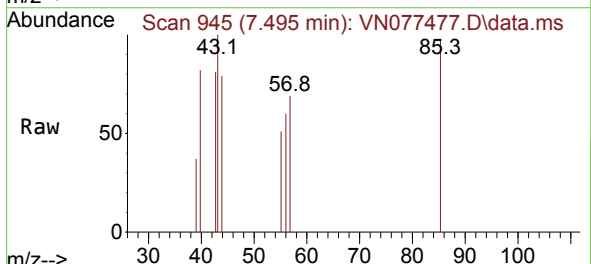
Instrument :
MSVOA_N
ClientSampleId :
MW-2

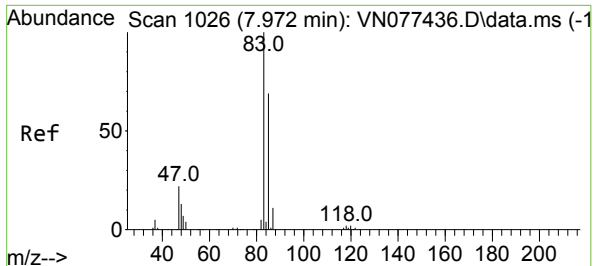
Tgt Ion: 43 Resp: 2147
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#25
2-Butanone
Concen: 0.487 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 43 Resp: 1647
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#

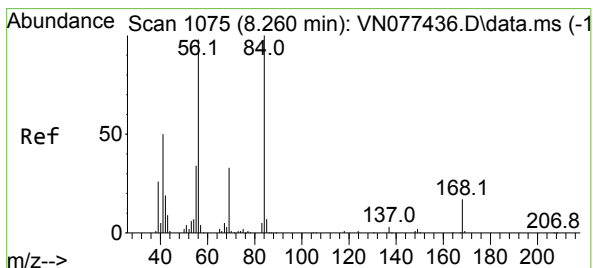
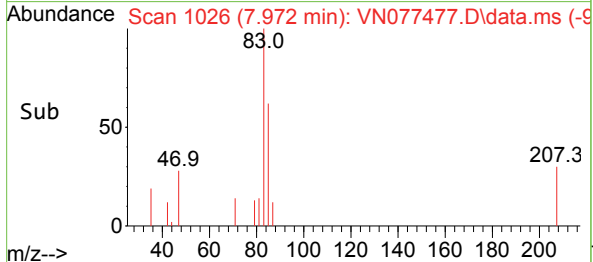
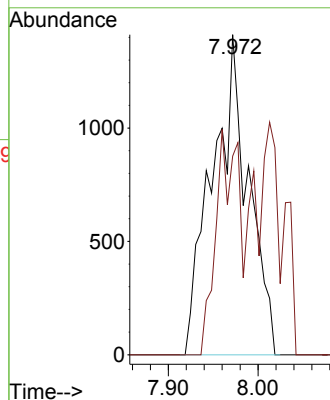
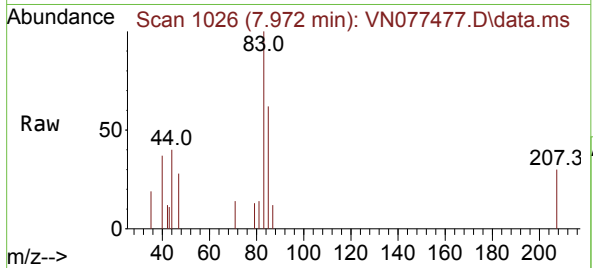




#30
Chloroform
Concen: 0.303 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

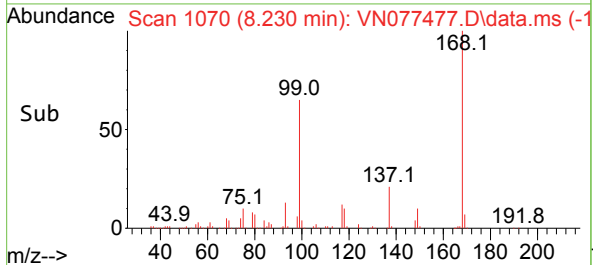
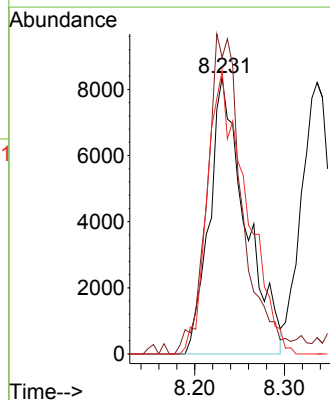
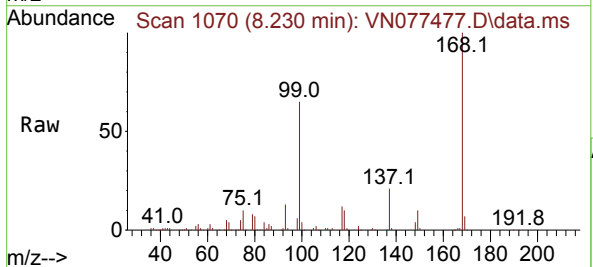
Instrument :
MSVOA_N
ClientSampleId :
MW-2

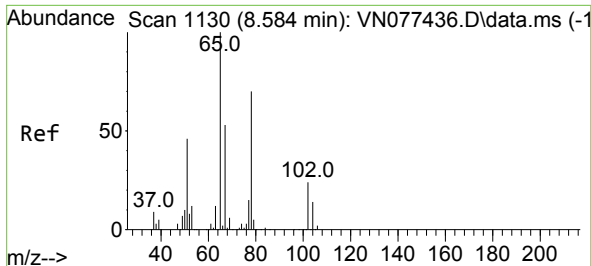
Tgt Ion: 83 Resp: 3952
Ion Ratio Lower Upper
83 100
85 62.0 55.4 83.0



#31
Cyclohexane
Concen: 2.191 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.030 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 56 Resp: 23262
Ion Ratio Lower Upper
56 100
69 104.1 26.8 40.2#
84 102.4 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 49.290 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

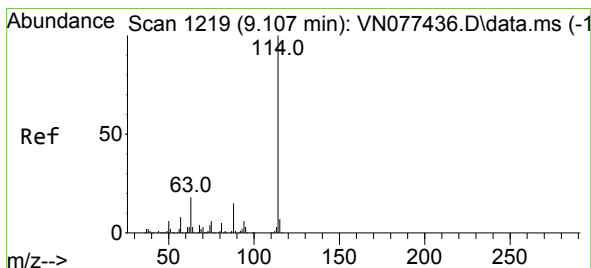
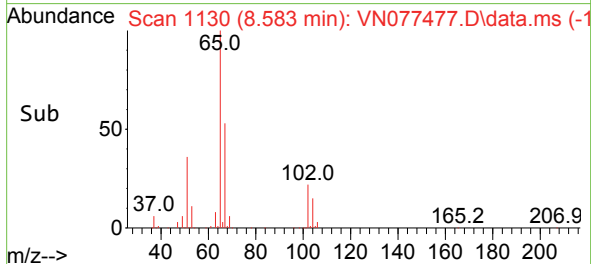
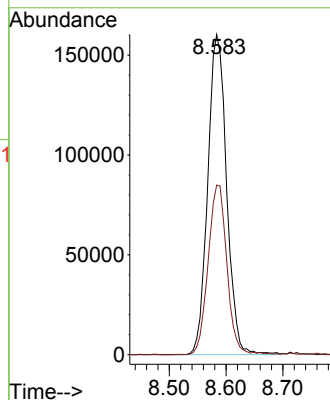
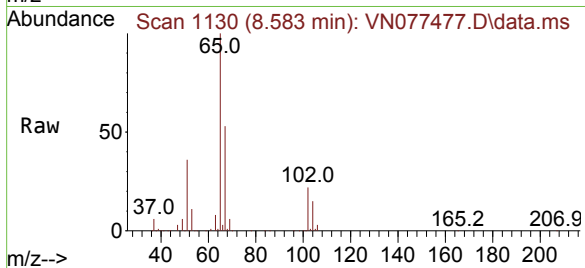
MW-2

Tgt Ion: 65 Resp: 369486

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

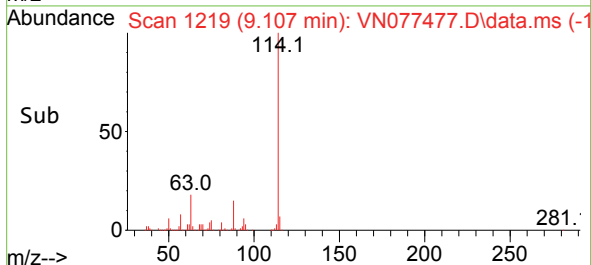
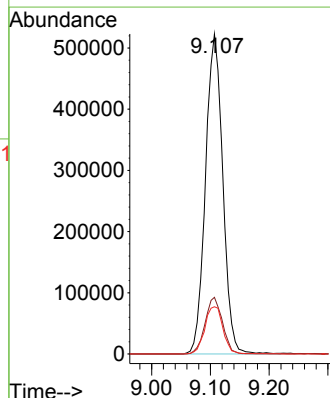
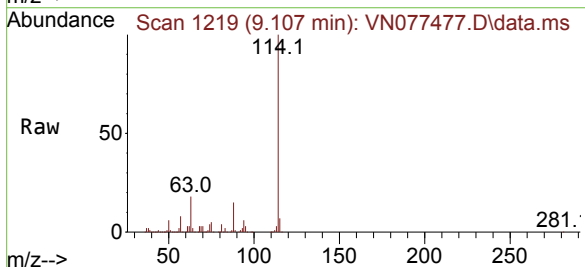
Tgt Ion: 114 Resp: 1070198

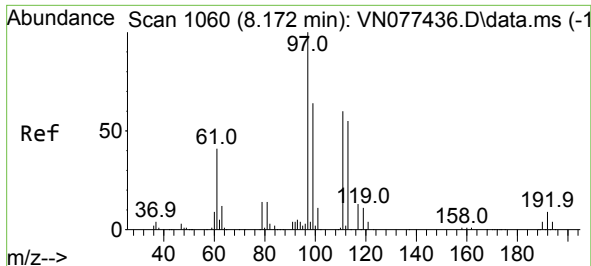
Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.4

88 14.7 0.0 30.6

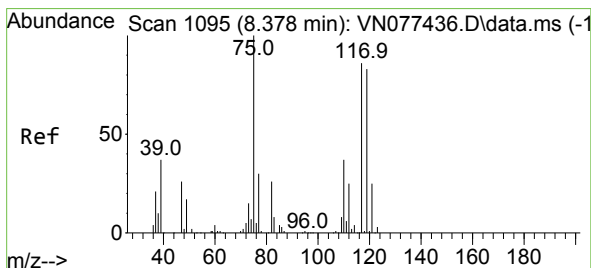
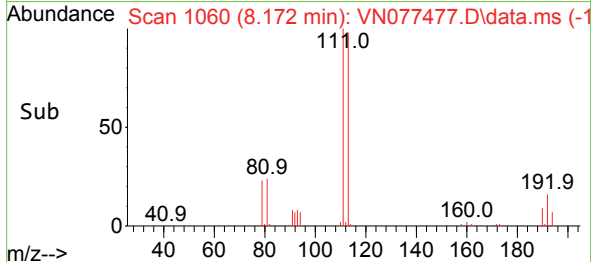
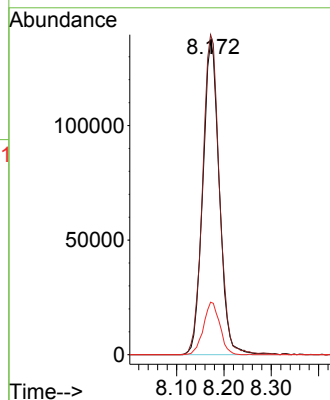
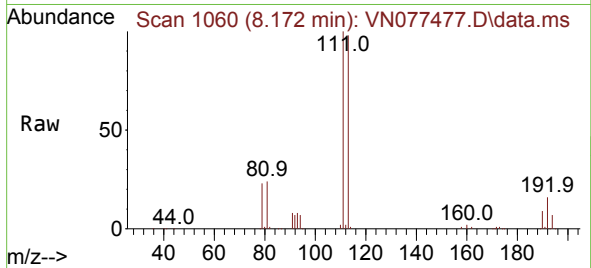




#35
Dibromofluoromethane
Concen: 51.611 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

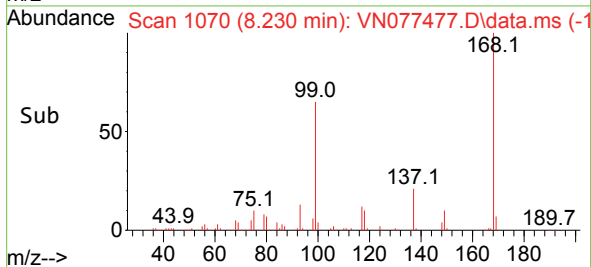
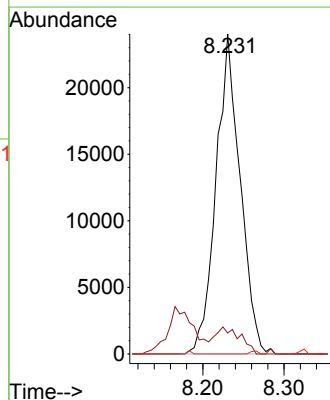
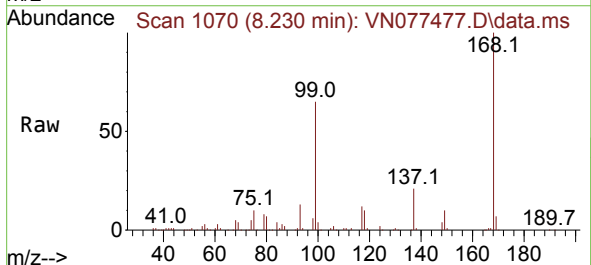
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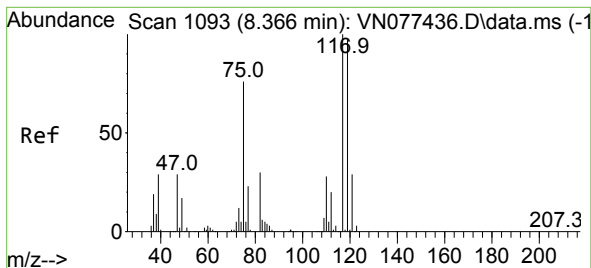
Tgt Ion:113 Resp: 331982
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 16.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.355 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 75 Resp: 49765
Ion Ratio Lower Upper
75 100
110 8.7 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.384 ug/l

RT: 8.230 min Scan# 1093

Delta R.T. -0.135 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

MW-2

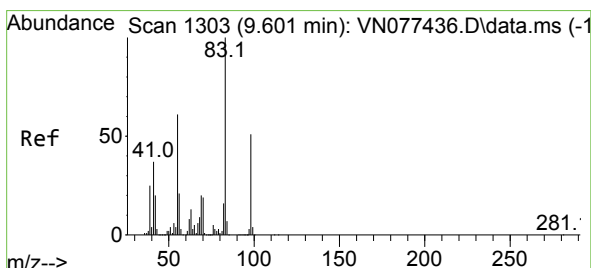
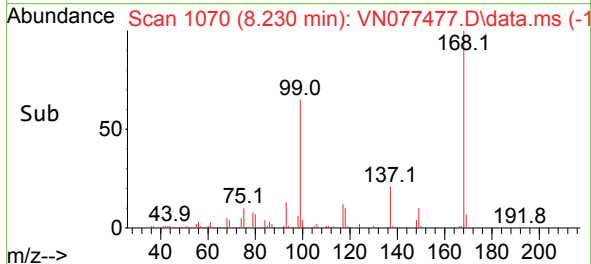
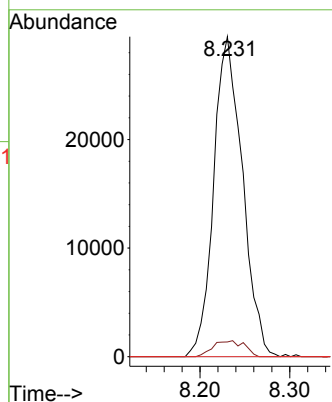
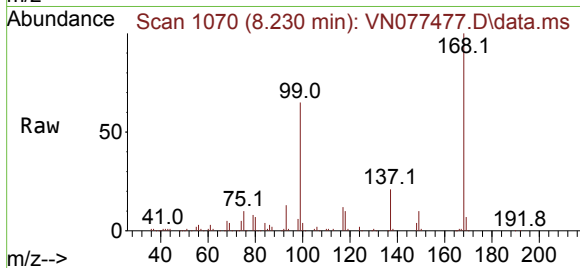
Tgt Ion:117 Resp: 65455

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 1.240 ug/l

RT: 9.601 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

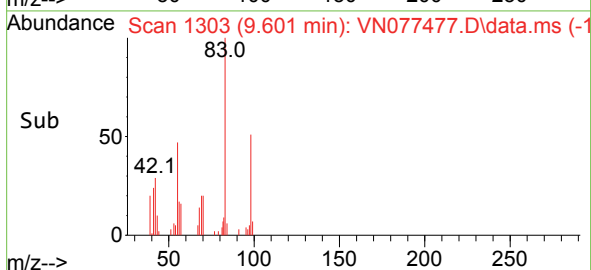
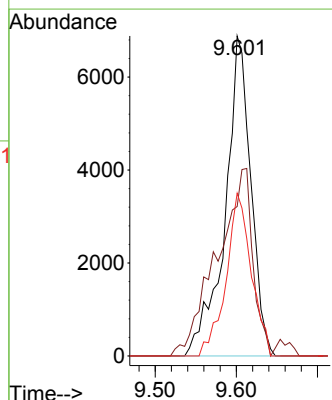
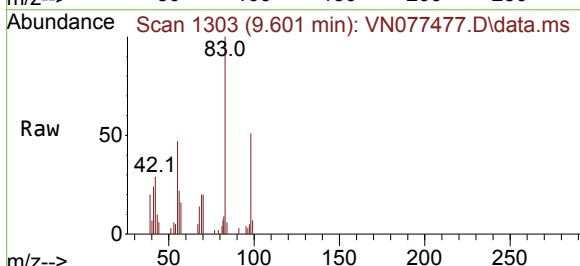
Tgt Ion: 83 Resp: 15177

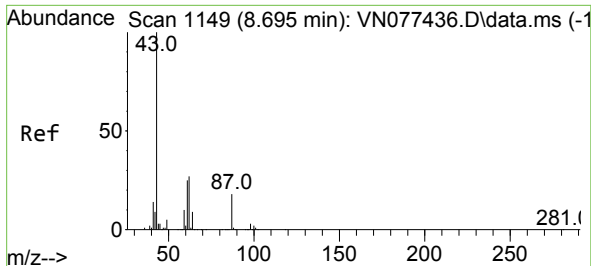
Ion Ratio Lower Upper

83 100

55 43.2 49.1 73.7#

98 50.9 40.6 61.0

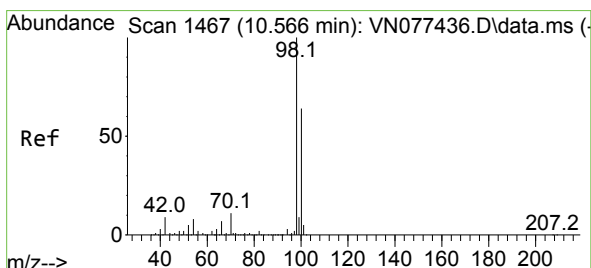
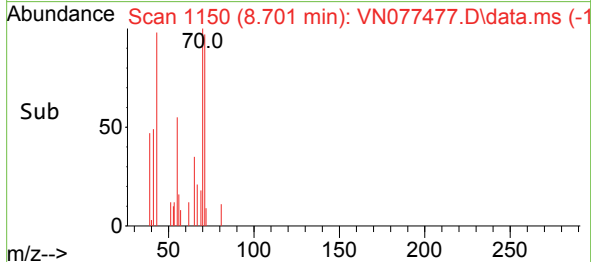
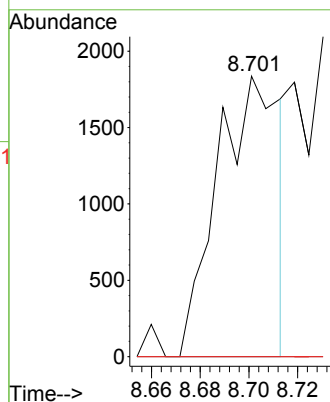
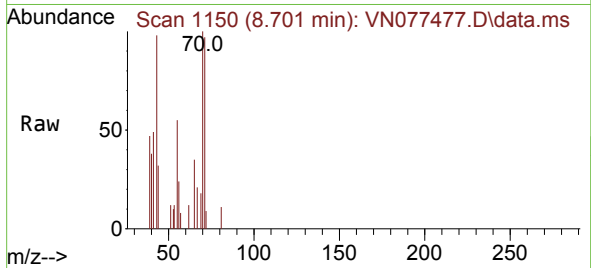




#43
Isopropyl Acetate
Concen: 0.268 ug/l
RT: 8.701 min Scan# 1149
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

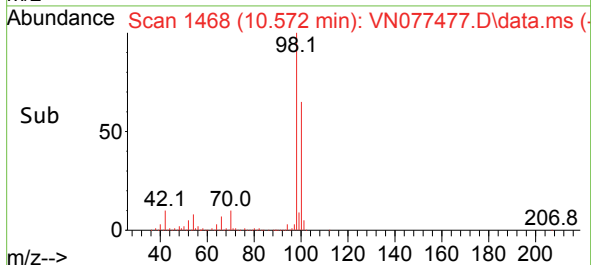
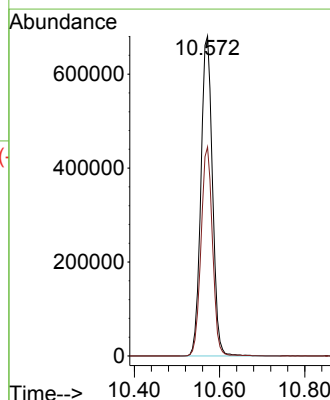
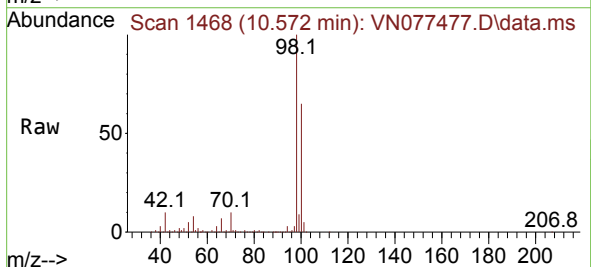
Instrument :
MSVOA_N
ClientSampleId :
MW-2

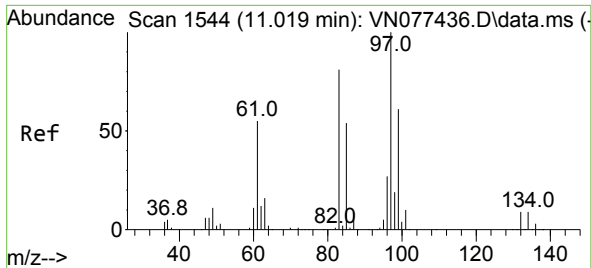
Tgt Ion: 43 Resp: 3279
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 51.962 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 98 Resp: 1280997
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0

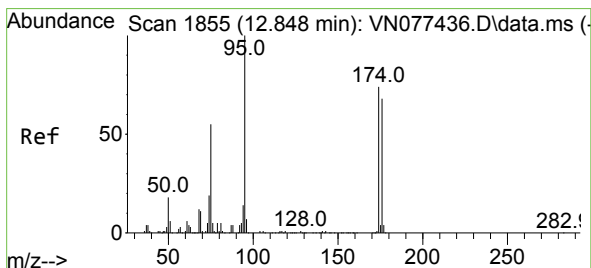
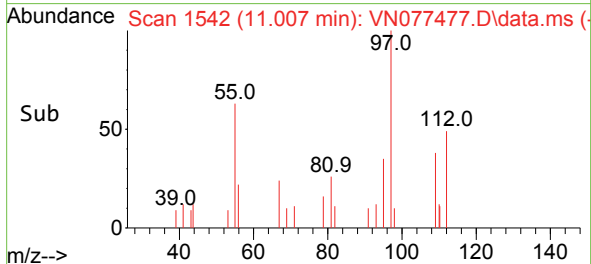
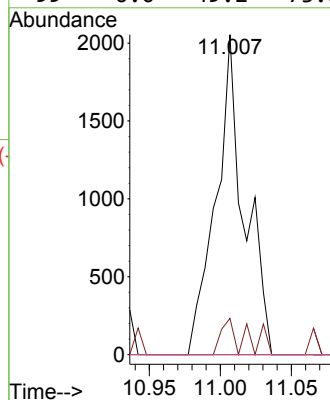
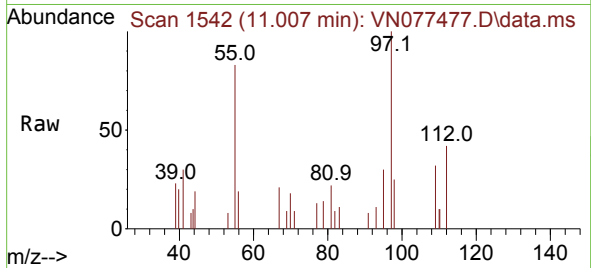




#55
1,1,2-Trichloroethane
Concen: 0.383 ug/l
RT: 11.007 min Scan# 1542
Delta R.T. -0.012 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

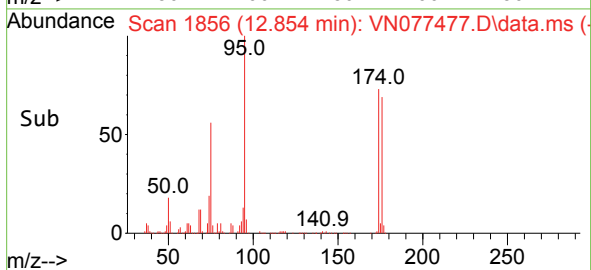
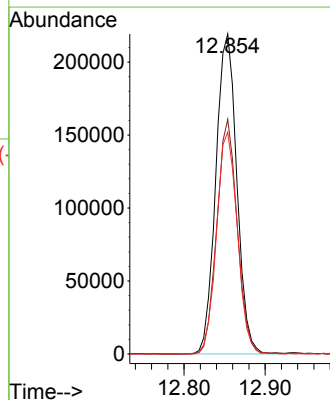
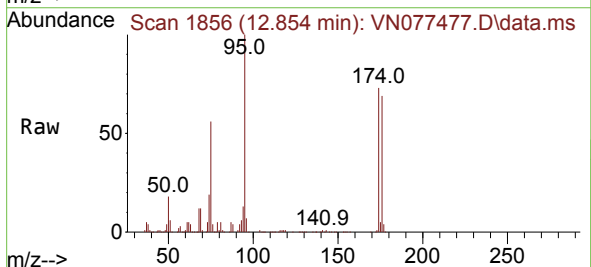
Instrument :
MSVOA_N
ClientSampleId :
MW-2

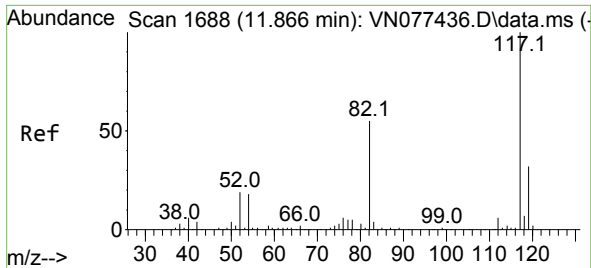
Tgt Ion:	97	Resp:	2860
Ion	Ratio	Lower	Upper
97	100		
83	11.3	65.1	97.7#
85	0.0	43.4	65.2#
99	0.0	49.2	73.8#



#62
4-Bromofluorobenzene
Concen: 48.876 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion:	95	Resp:	394222
Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	143.8
176	68.7	0.0	135.8

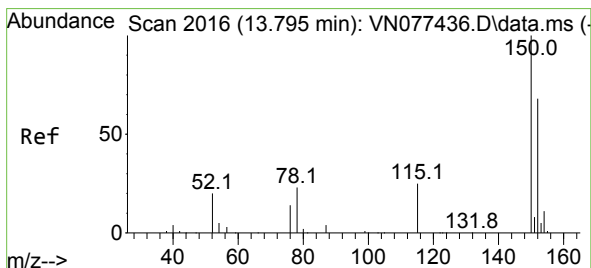
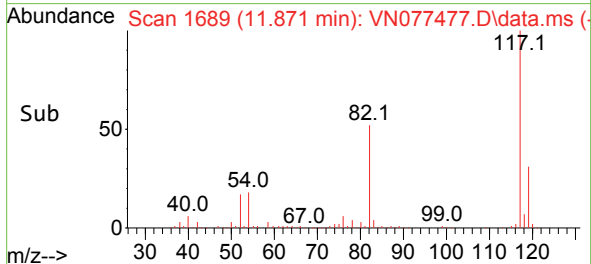
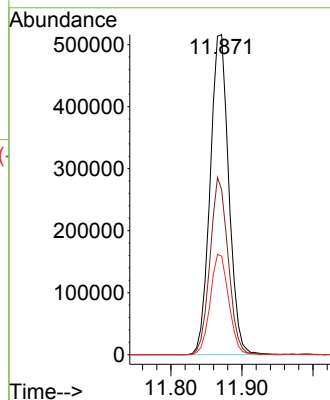
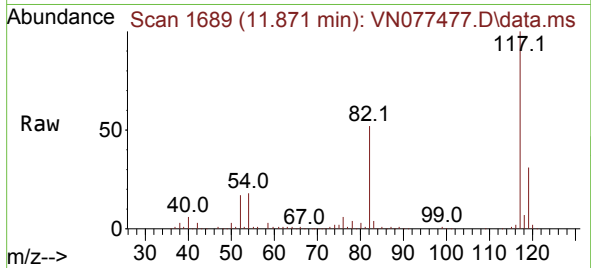




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

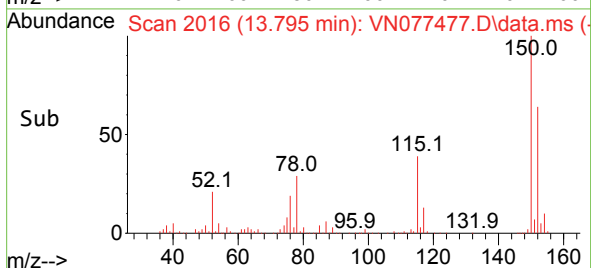
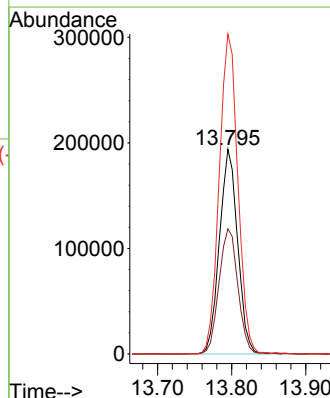
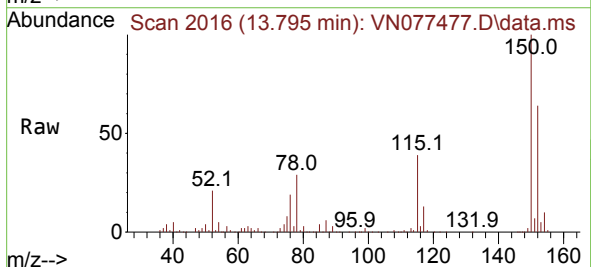
Instrument :
MSVOA_N
ClientSampleId :
MW-2

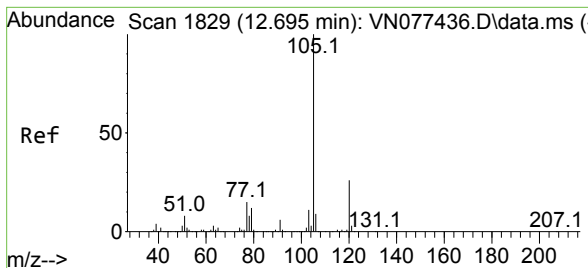
Tgt Ion:117 Resp: 942118
Ion Ratio Lower Upper
117 100
82 51.6 44.0 66.0
119 30.8 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion:152 Resp: 331330
Ion Ratio Lower Upper
152 100
115 63.3 32.3 96.8
150 159.6 0.0 355.8





#73

Isopropylbenzene

Concen: 0.453 ug/l

RT: 12.701 min Scan# 1830

Delta R.T. 0.006 min

Lab File: VN077477.D

Acq: 25 Apr 2023 18:21

Instrument :

MSVOA_N

ClientSampleId :

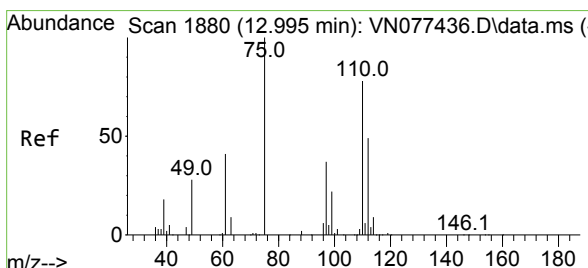
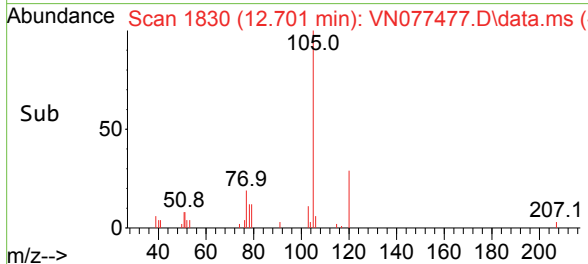
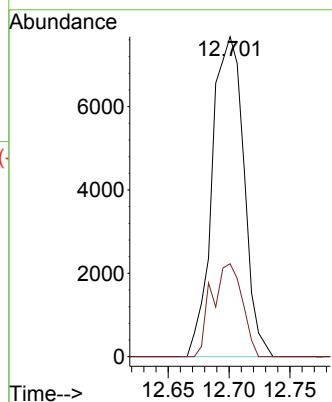
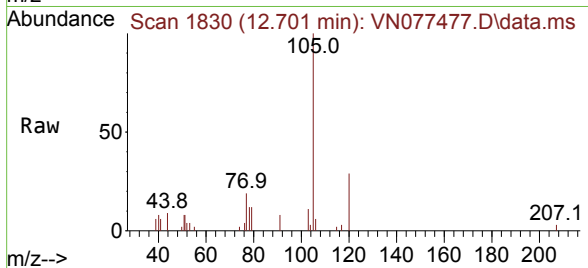
MW-2

Tgt Ion:105 Resp: 13914

Ion Ratio Lower Upper

105 100

120 27.9 13.1 39.1



#76

1,2,3-Trichloropropane

Concen: 27.666 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077477.D

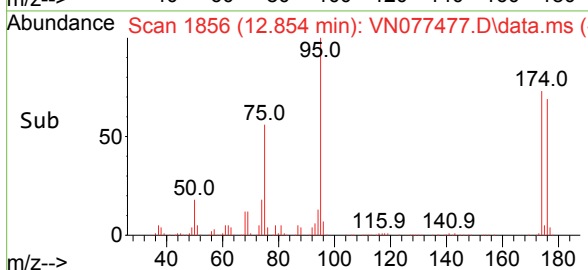
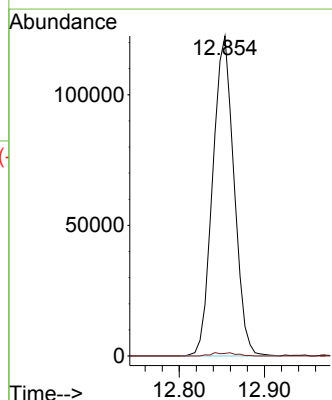
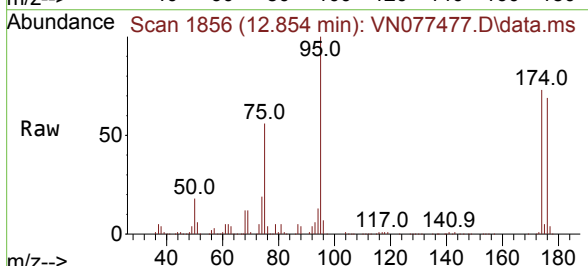
Acq: 25 Apr 2023 18:21

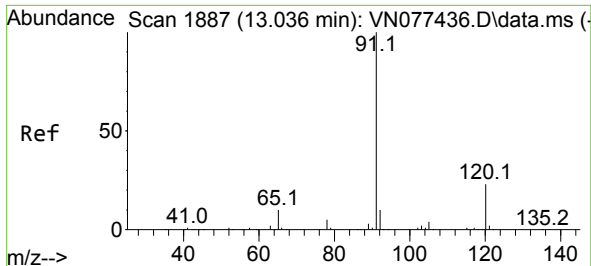
Tgt Ion: 75 Resp: 213161

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#

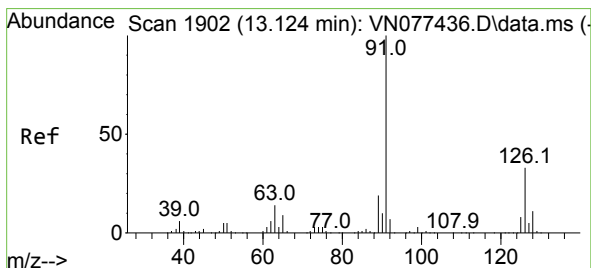
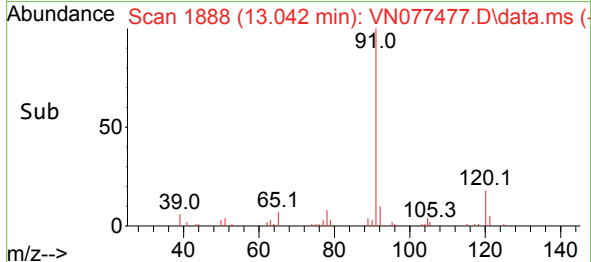
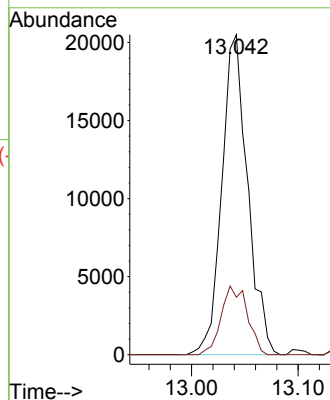
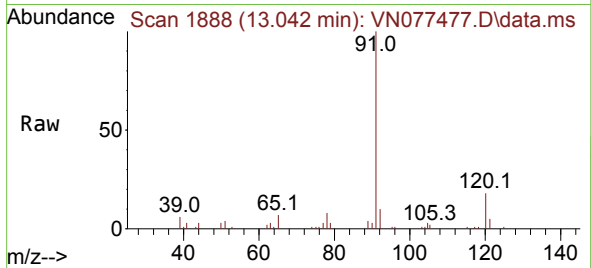




#78
n-propylbenzene
Concen: 1.014 ug/l
RT: 13.042 min Scan# 1888
Delta R.T. 0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

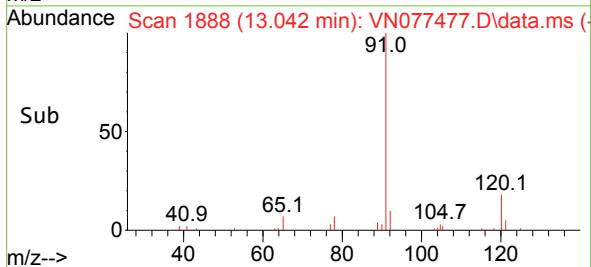
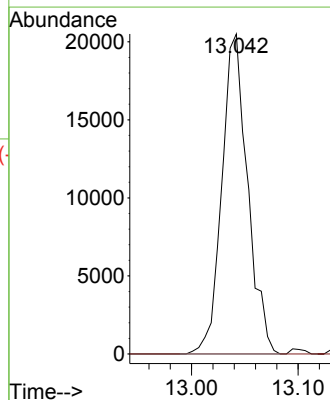
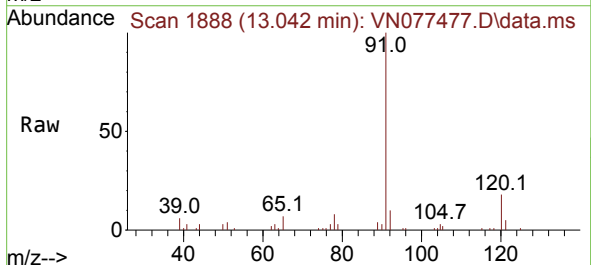
Instrument :
MSVOA_N
ClientSampleId :
MW-2

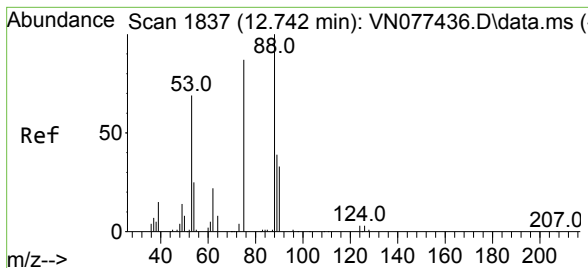
Tgt Ion: 91 Resp: 34458
Ion Ratio Lower Upper
91 100
120 21.8 11.5 34.4



#79
2-Chlorotoluene
Concen: 1.644 ug/l
RT: 13.042 min Scan# 1888
Delta R.T. -0.082 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 91 Resp: 34458
Ion Ratio Lower Upper
91 100
126 0.0 16.3 48.8#

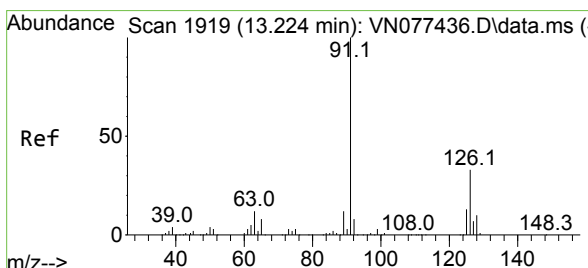
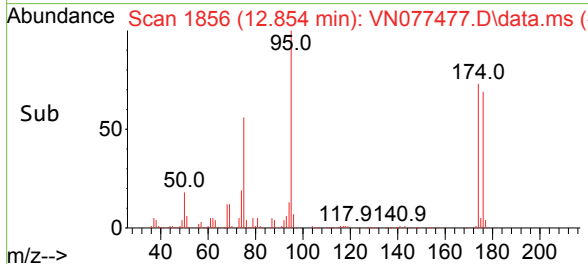
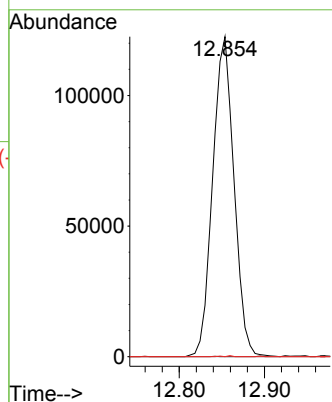
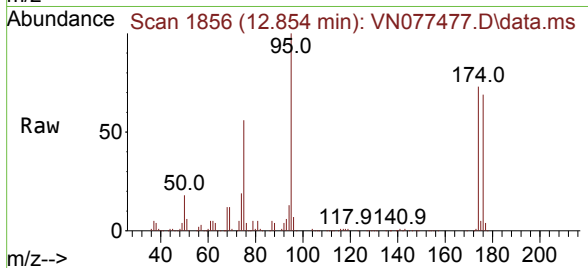




#81
trans-1,4-Dichloro-2-butene
Concen: 78.162 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

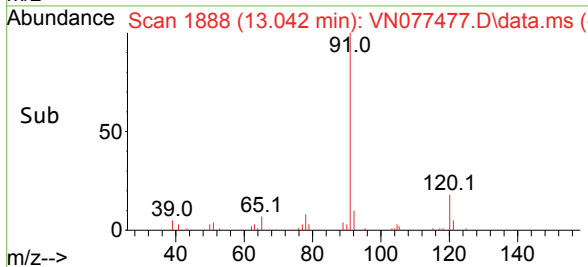
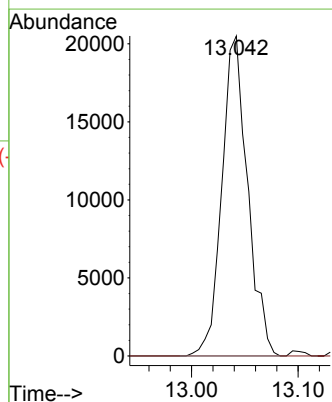
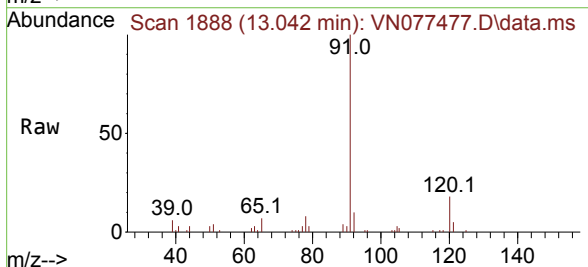
Instrument :
MSVOA_N
ClientSampleId :
MW-2

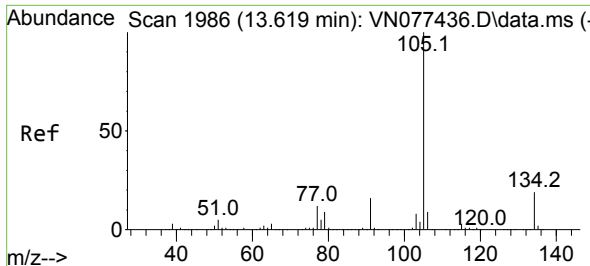
Tgt Ion: 75 Resp: 213161
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#82
4-Chlorotoluene
Concen: 1.759 ug/l
RT: 13.042 min Scan# 1888
Delta R.T. -0.182 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

Tgt Ion: 91 Resp: 34458
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.0#

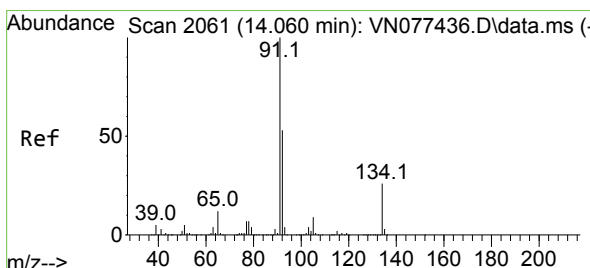
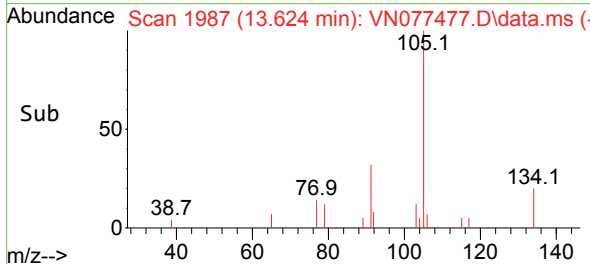
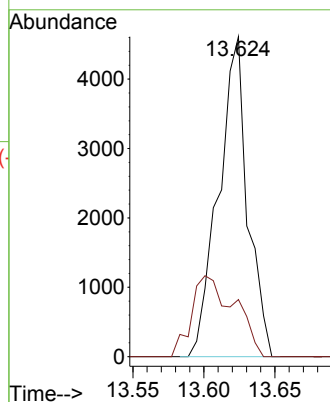
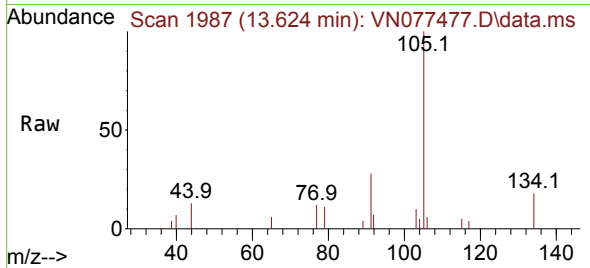




#85
 sec-Butylbenzene
 Concen: 0.215 ug/l
 RT: 13.624 min Scan# 1986
 Delta R.T. 0.006 min
 Lab File: VN077477.D
 Acq: 25 Apr 2023 18:21

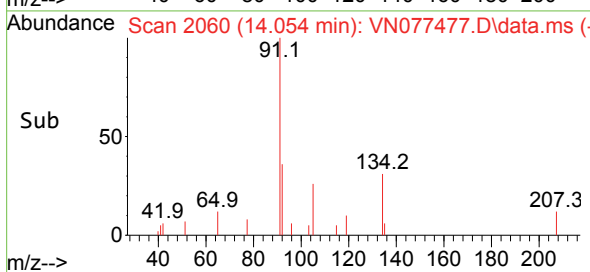
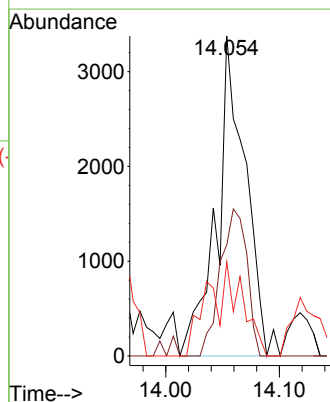
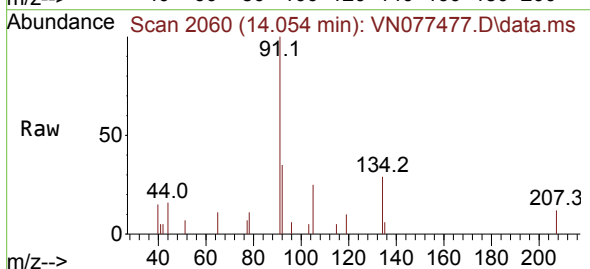
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

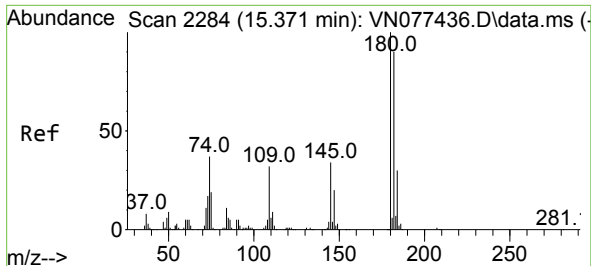
Tgt Ion:105 Resp: 6537
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#89
 n-Butylbenzene
 Concen: 0.328 ug/l
 RT: 14.054 min Scan# 2060
 Delta R.T. -0.006 min
 Lab File: VN077477.D
 Acq: 25 Apr 2023 18:21

Tgt Ion: 91 Resp: 5943
 Ion Ratio Lower Upper
 91 100
 92 42.4 26.4 79.0
 134 19.2 12.6 37.6

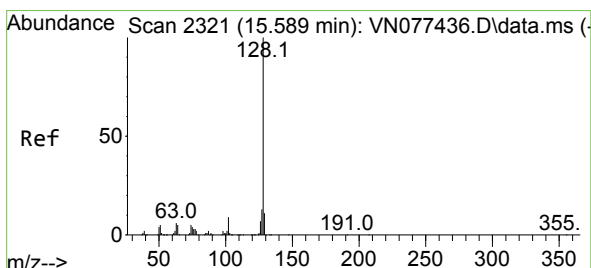
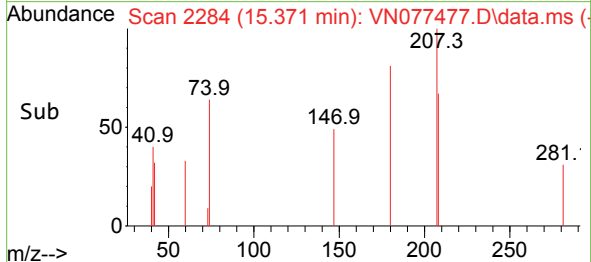
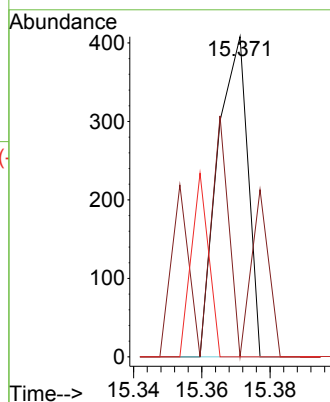
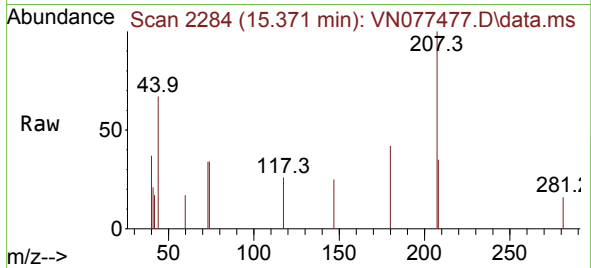




#93
1,2,4-Trichlorobenzene
Concen: 0.901 ug/l
RT: 15.371 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

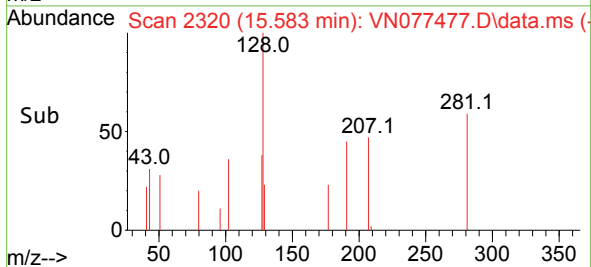
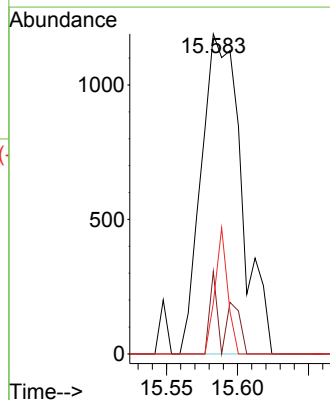
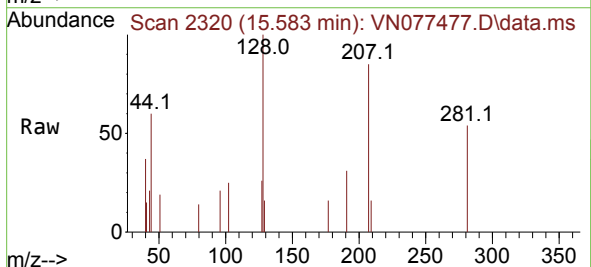
Instrument :
MSVOA_N
ClientSampleId :
MW-2

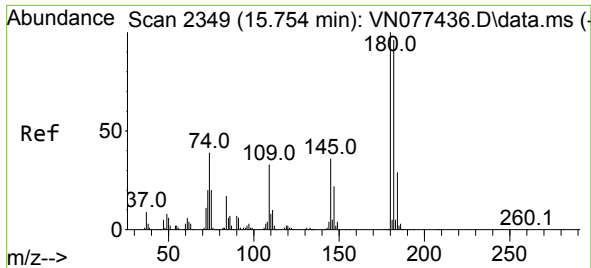
Tgt Ion:	180	Resp:	250
Ion Ratio	Lower	Upper	
180	100		
182	73.2	46.1	138.2
145	33.2	16.6	49.8



#95
Naphthalene
Concen: 1.403 ug/l
RT: 15.583 min Scan# 2320
Delta R.T. -0.006 min
Lab File: VN077477.D
Acq: 25 Apr 2023 18:21

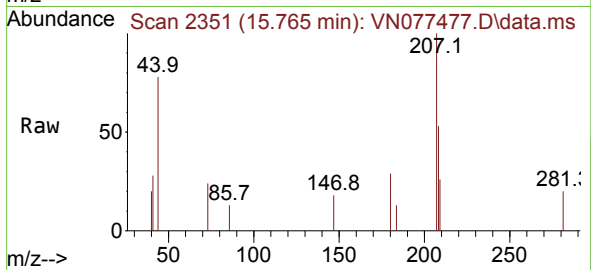
Tgt Ion:	128	Resp:	2329
Ion Ratio	Lower	Upper	
128	100		
127	4.6	10.0	15.0#
129	12.4	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.610 ug/l
 RT: 15.765 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN077477.D
 Acq: 25 Apr 2023 18:21

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2



Tgt Ion:	180	Resp:	301
Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.2	138.6#
145	0.0	17.5	52.6#

