

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013023\
 Data File : VN076463.D
 Acq On : 30 Jan 2023 17:41
 Operator : JC\MD
 Sample : 01318-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

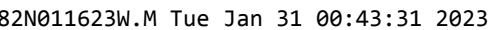
Quant Time: Jan 31 00:43:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

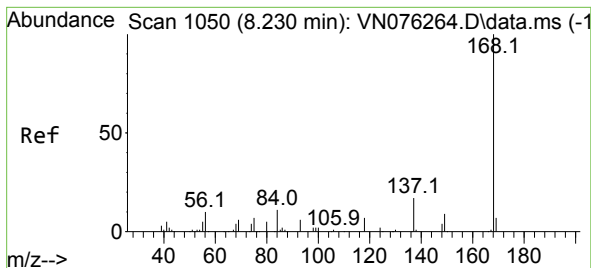
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	451659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	752047	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	658220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	252201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	275757	54.528	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.060%			
35) Dibromofluoromethane	8.171	113	232670	49.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.920%			
50) Toluene-d8	10.570	98	884615	50.917	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.840%			
62) 4-Bromofluorobenzene	12.853	95	271196	47.815	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.640%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.536	59	959	1.418	ug/l #	72
16) Acetone	4.447	43	47433	29.194	ug/l	99
18) Methyl Acetate	5.053	43	4607	0.839	ug/l	99
20) Methylene Chloride	5.288	84	14759	2.504	ug/l #	87
25) 2-Butanone	7.506	43	13065	5.277	ug/l	91
29) Tetrahydrofuran	7.853	42	467	0.306	ug/l #	34
31) Cyclohexane	8.224	56	9456	1.217	ug/l #	33
36) 1,1-Dichloropropene	8.229	75	35694	5.340	ug/l #	50
37) Ethyl Acetate	7.577	43	39401	7.380	ug/l	97
38) Carbon Tetrachloride	8.235	117	46580	6.248	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1484	0.217	ug/l #	73
43) Isopropyl Acetate	8.694	43	290419	33.295	ug/l #	77
45) 1,2-Dichloropropane	9.747	63	2912	0.608	ug/l #	42
48) Methyl methacrylate	9.671	41	5937	1.438	ug/l #	35
49) 1,4-Dioxane	9.753	88	408	4.682	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	17030	3.326	ug/l #	73
52) Toluene	10.629	92	15185	1.136	ug/l	100
53) t-1,3-Dichloropropene	10.729	75	1416	0.212	ug/l #	51
54) cis-1,3-Dichloropropene	10.359	75	76482	9.951	ug/l #	64
56) Ethyl methacrylate	10.988	69	2529	0.383	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8508	1.025	ug/l #	42
59) 2-Hexanone	11.170	43	182885	49.287	ug/l #	21
71) Bromoform	12.847	173	1902	0.509	ug/l #	1
74) N-amyl acetate	12.488	43	3217	0.573	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	147637	31.788	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	147637	97.400	ug/l #	11
95) Naphthalene	15.641	128	807	1.898	ug/l #	69

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

Quant Time: Jan 31 00:43:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 17 03:59:22 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1050

Delta R.T. 0.005 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

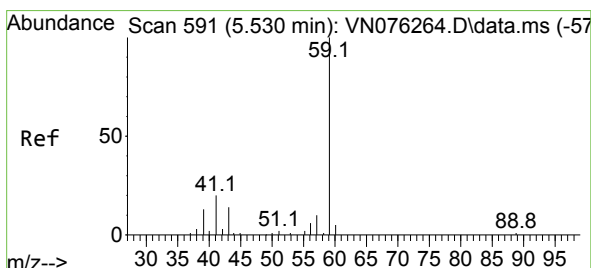
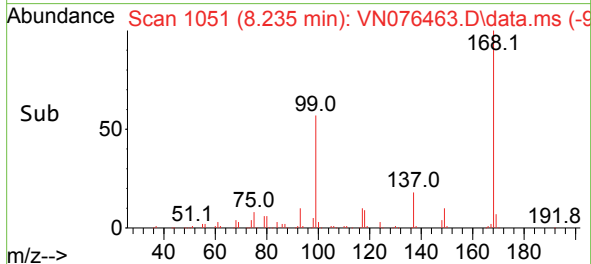
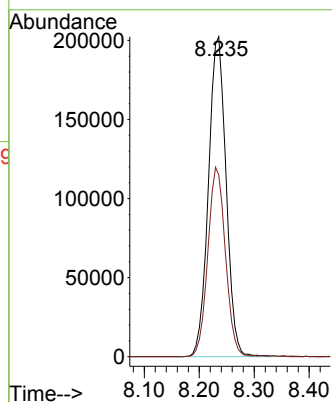
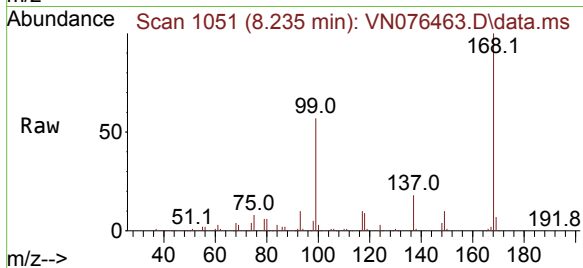
ClientSampleId :

Tgt Ion:168 Resp: 451659

Ion Ratio Lower Upper

168 100

99 56.8 41.6 62.4



#11

Tert butyl alcohol

Concen: 1.418 ug/l

RT: 5.536 min Scan# 592

Delta R.T. 0.006 min

Lab File: VN076463.D

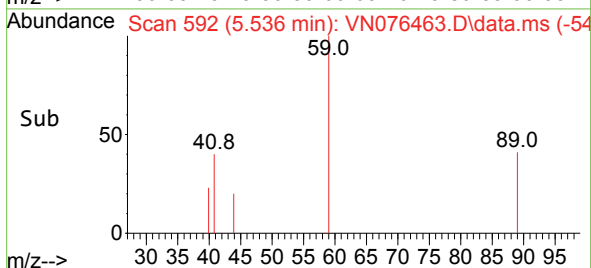
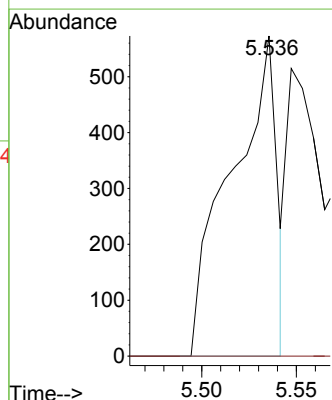
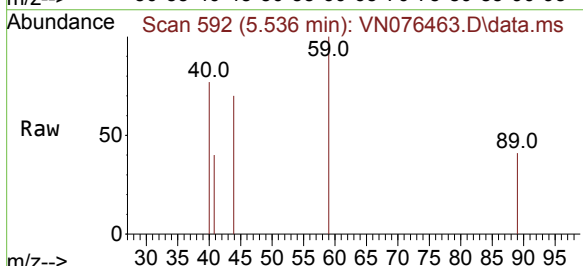
Acq: 30 Jan 2023 17:41

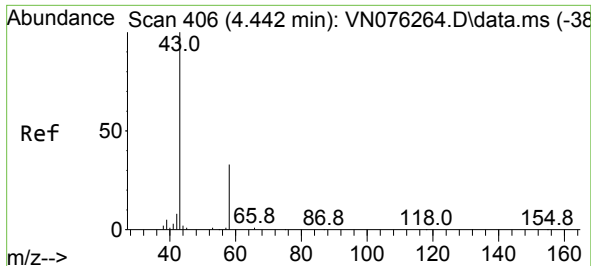
Tgt Ion: 59 Resp: 959

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

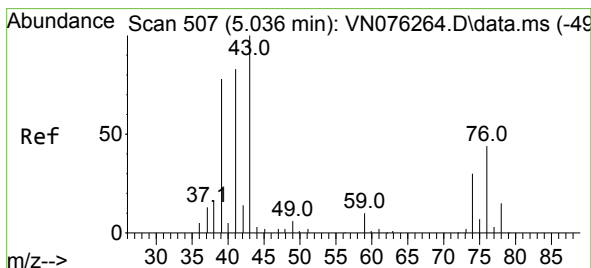
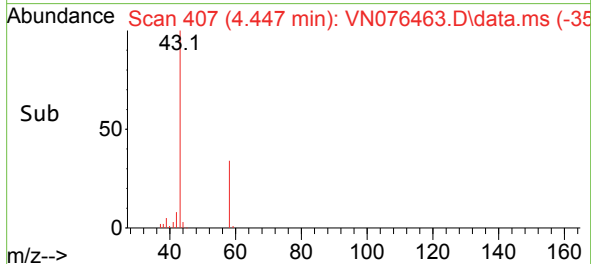
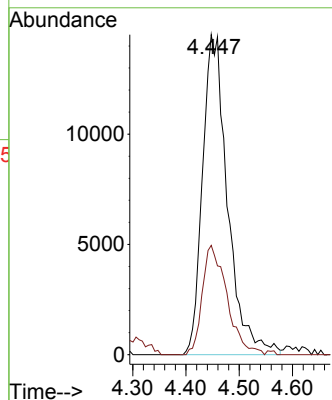
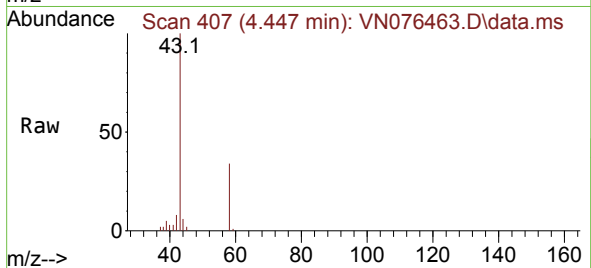




#16
Acetone
Concen: 29.194 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.005 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

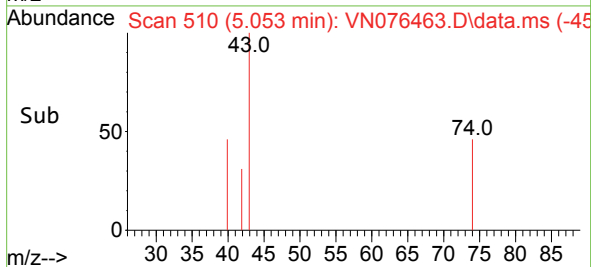
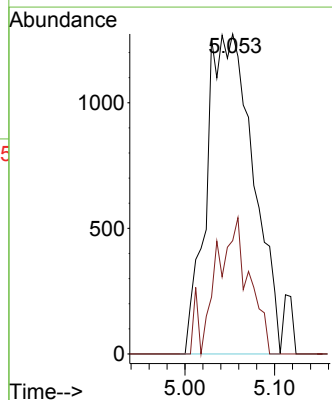
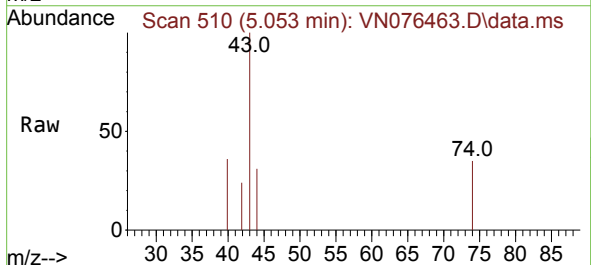
Instrument :
MSVOA_N
ClientSampleId :

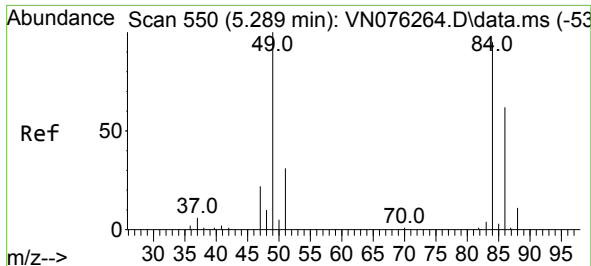
Tgt Ion: 43 Resp: 47433
Ion Ratio Lower Upper
43 100
58 34.2 26.7 40.1



#18
Methyl Acetate
Concen: 0.839 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.017 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

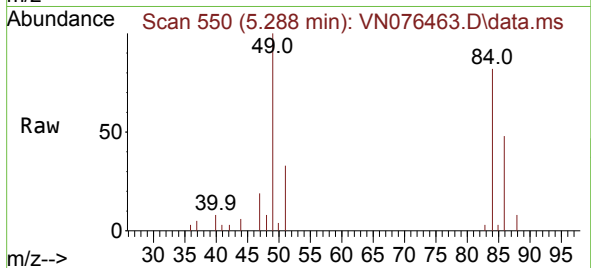
Tgt Ion: 43 Resp: 4607
Ion Ratio Lower Upper
43 100
74 28.7 23.3 34.9



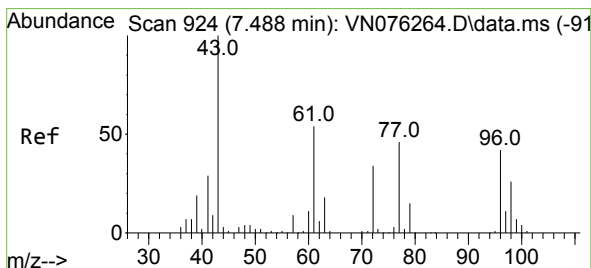
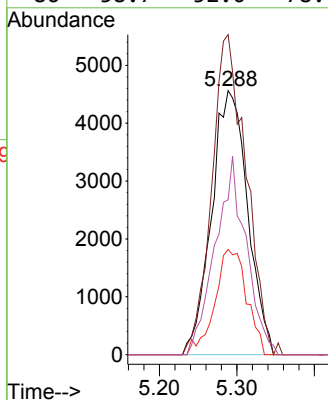
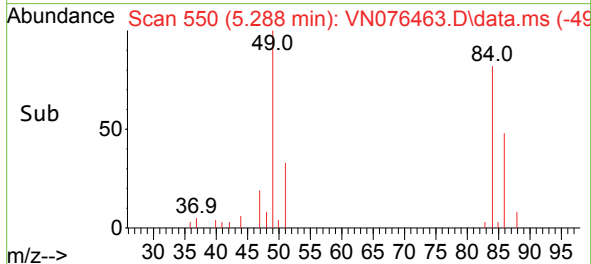


#20
Methylene Chloride
Concen: 2.504 ug/l
RT: 5.288 min Scan# 51
Delta R.T. -0.001 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Instrument :
MSVOA_N
ClientSampleId :

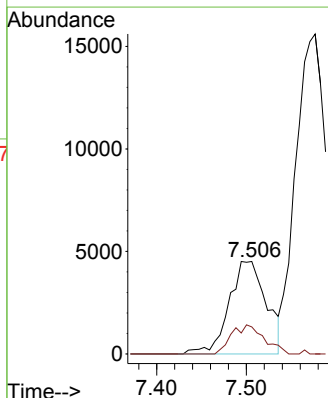
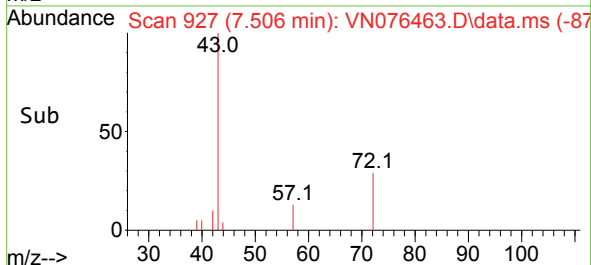
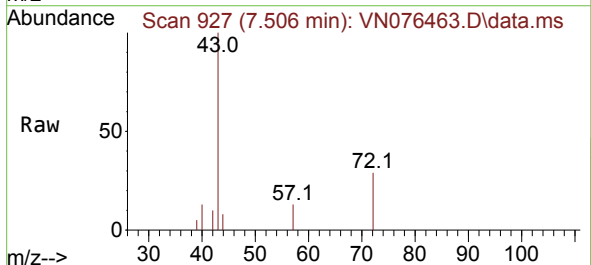


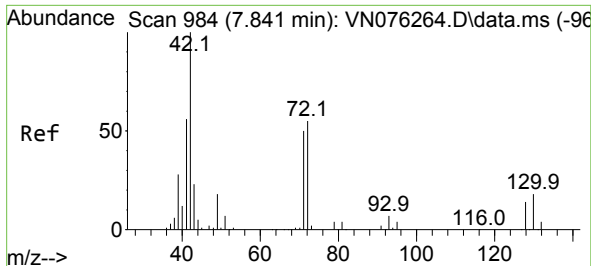
Tgt Ion:	84	Resp:	14759
Ion	Ratio	Lower	Upper
84	100		
49	121.2	84.5	126.7
51	39.9	26.0	39.0#
86	58.7	52.0	78.0



#25
2-Butanone
Concen: 5.277 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion:	43	Resp:	13065
Ion	Ratio	Lower	Upper
43	100		
72	29.3	27.4	41.2





#29

Tetrahydrofuran

Concen: 0.306 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

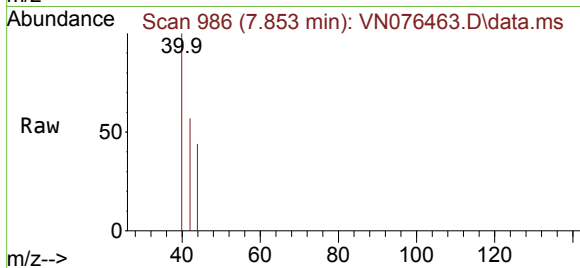
Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

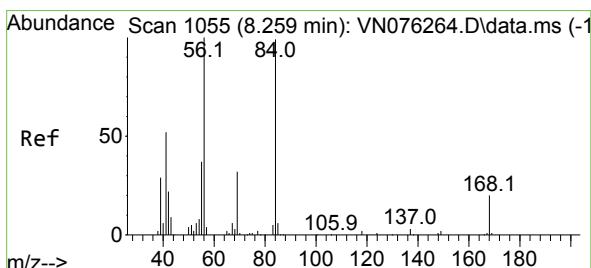
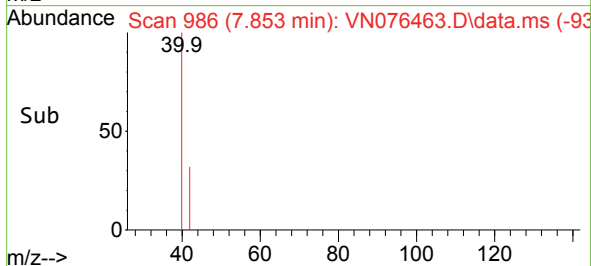
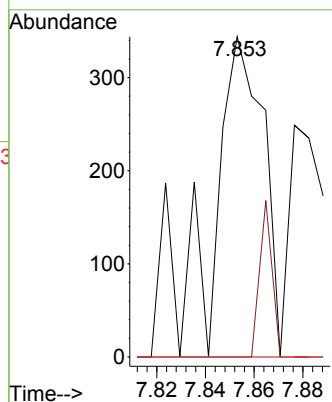
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	467
Ion Ratio	Lower	Upper	
42	100		
72	12.6	44.0	66.0#
71	0.0	41.1	61.7#



#31

Cyclohexane

Concen: 1.217 ug/l

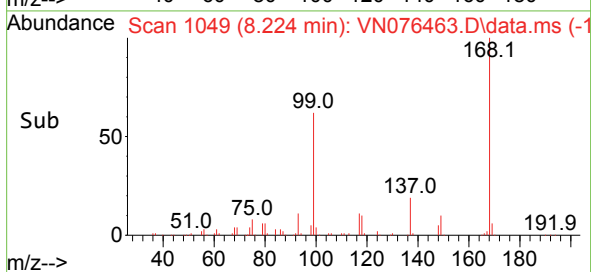
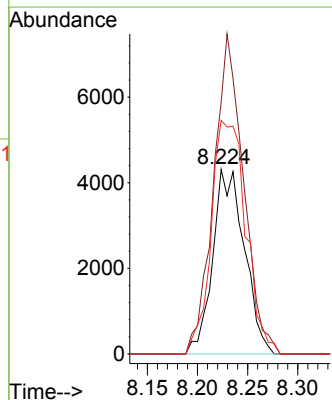
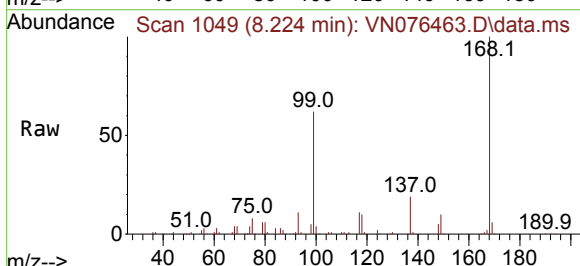
RT: 8.224 min Scan# 1049

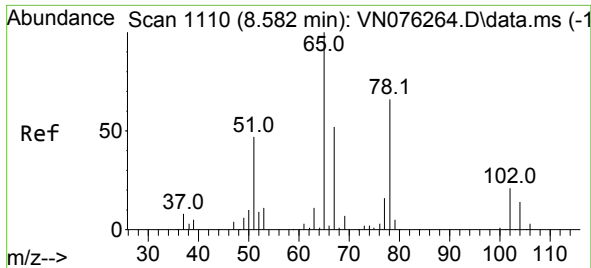
Delta R.T. -0.035 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Tgt Ion:	56	Resp:	9456
Ion Ratio	Lower	Upper	
56	100		
69	136.2	25.8	38.8#
84	126.5	79.0	118.4#





#33

1,2-Dichloroethane-d4

Concen: 54.528 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

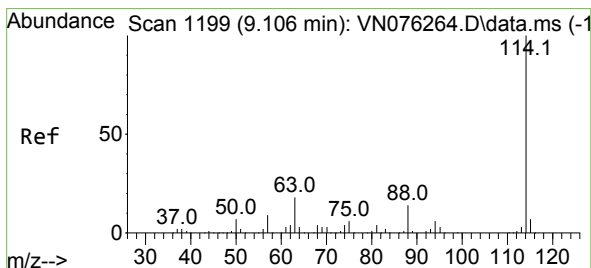
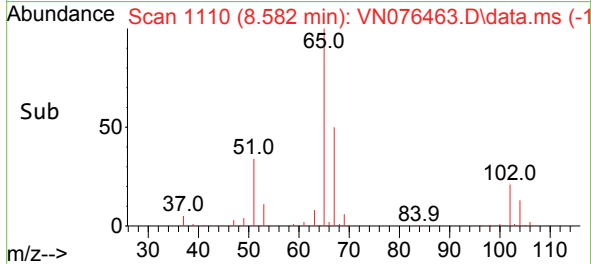
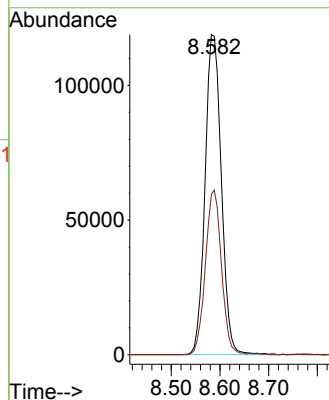
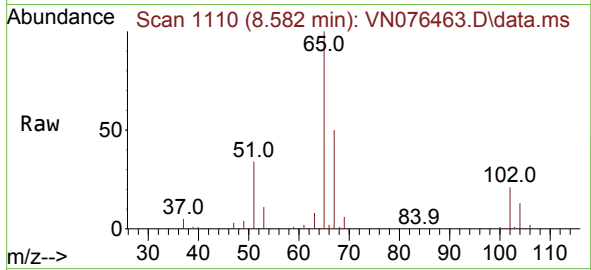
ClientSampleId :

Tgt Ion: 65 Resp: 275757

Ion Ratio Lower Upper

65 100

67 50.9 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

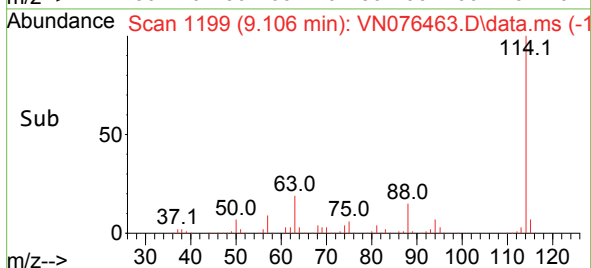
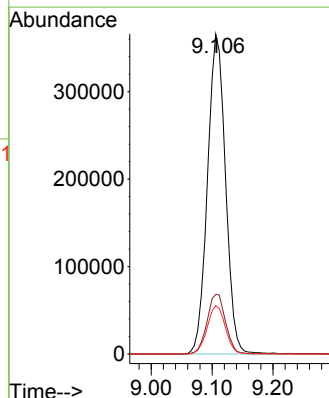
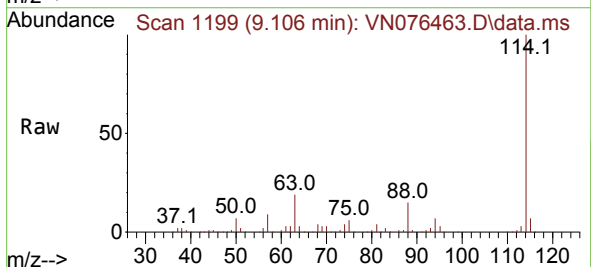
Tgt Ion: 114 Resp: 752047

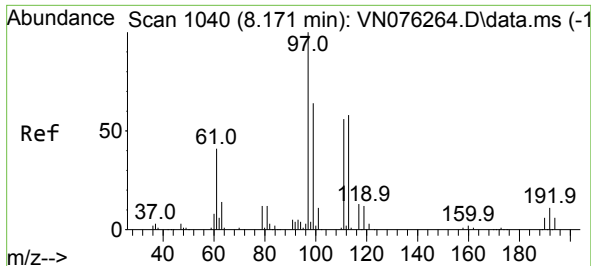
Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.8

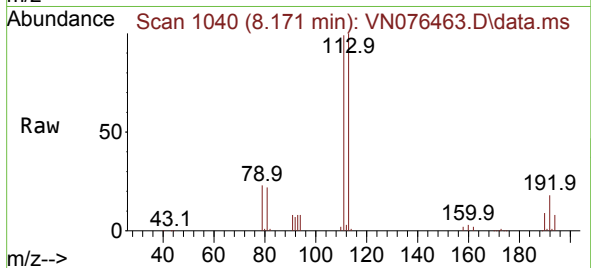
88 15.1 0.0 28.0



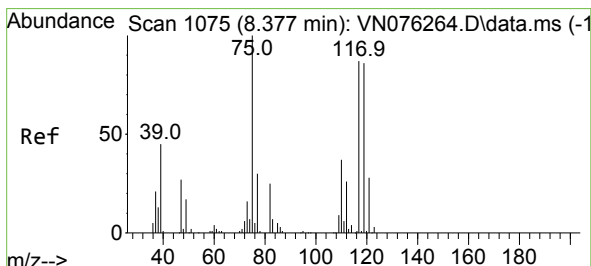
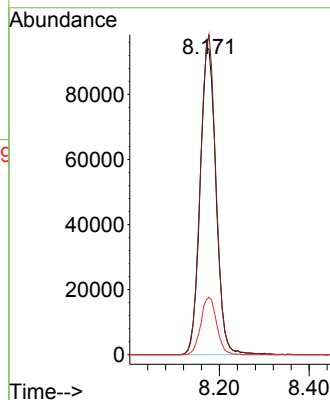
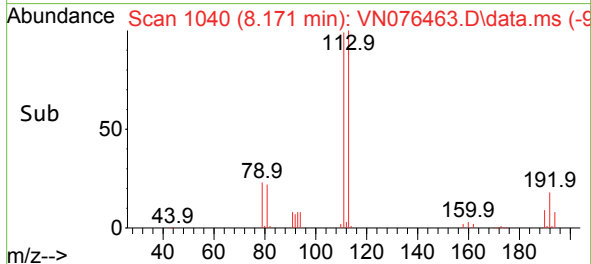


#35
Dibromofluoromethane
Concen: 49.458 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Instrument :
MSVOA_N
ClientSampleId :

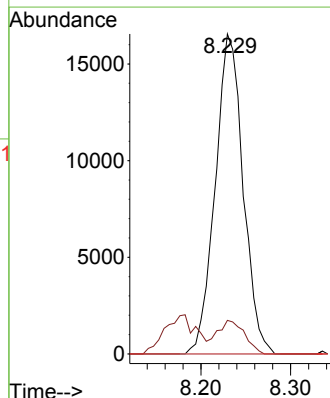
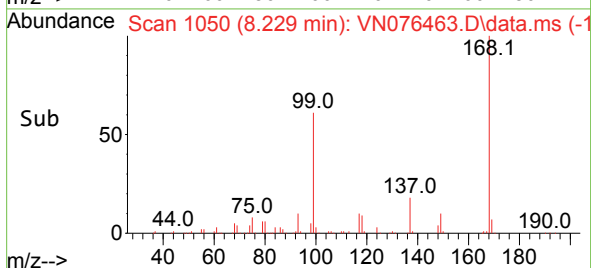
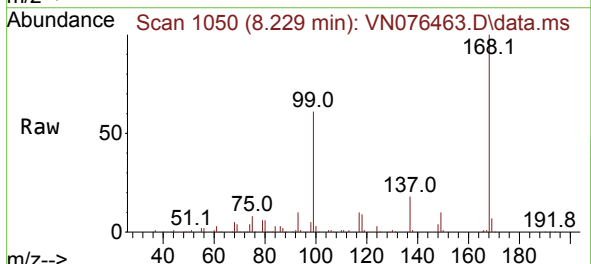


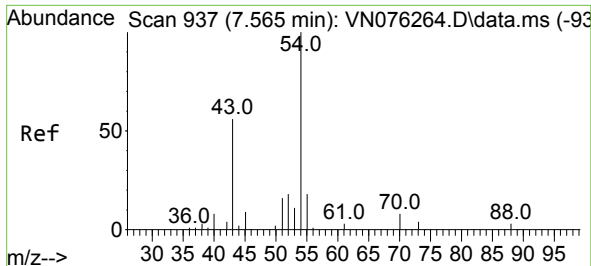
Tgt Ion:113 Resp: 232670
Ion Ratio Lower Upper
113 100
111 102.6 82.7 124.1
192 18.6 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.340 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.148 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 75 Resp: 35694
Ion Ratio Lower Upper
75 100
110 10.4 18.8 56.3#
77 0.0 25.0 37.4#

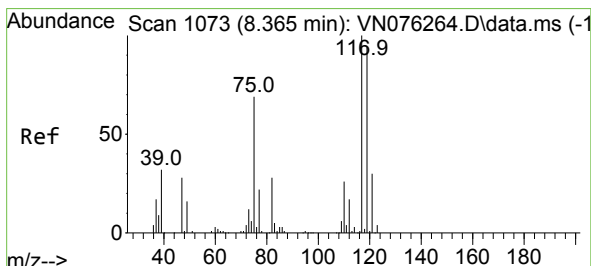
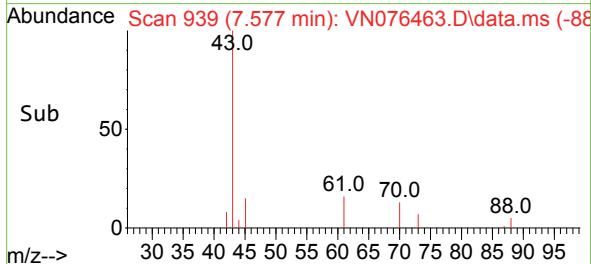
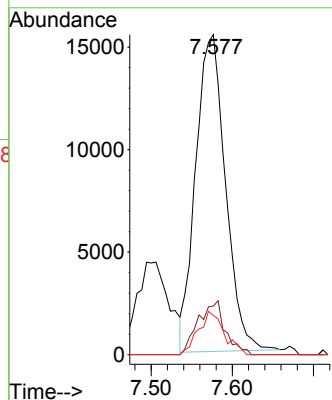
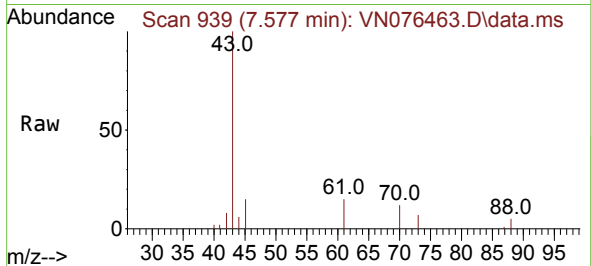




#37
Ethyl Acetate
Concen: 7.380 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

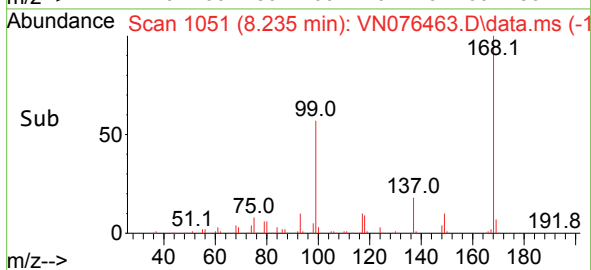
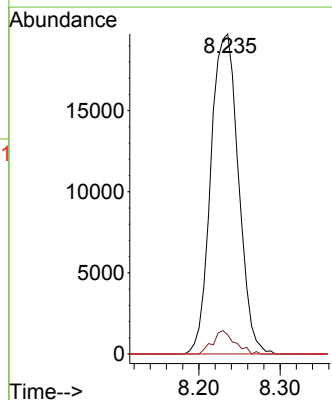
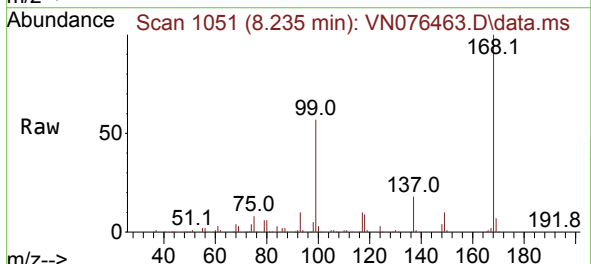
Instrument :
MSVOA_N
ClientSampleId :

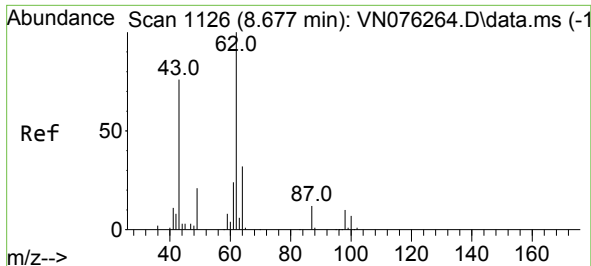
Tgt Ion: 43 Resp: 39401
Ion Ratio Lower Upper
43 100
61 15.4 11.1 16.7
70 11.8 10.0 15.0



#38
Carbon Tetrachloride
Concen: 6.248 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.130 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 117 Resp: 46580
Ion Ratio Lower Upper
117 100
119 6.0 75.4 113.0#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.217 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.017 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

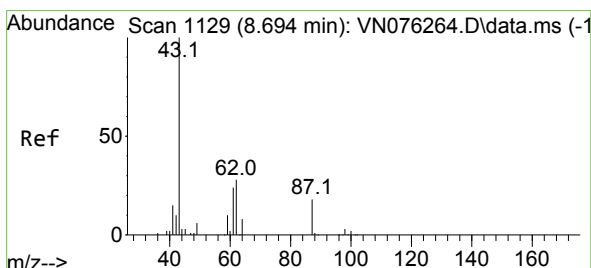
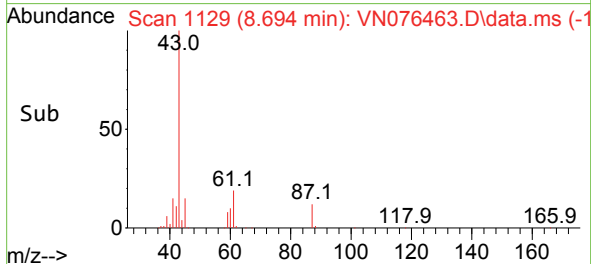
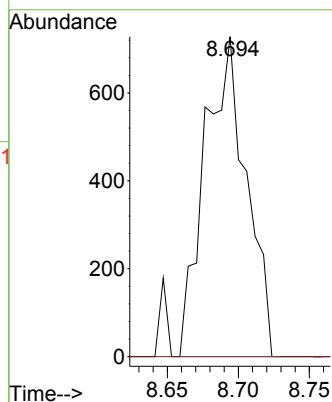
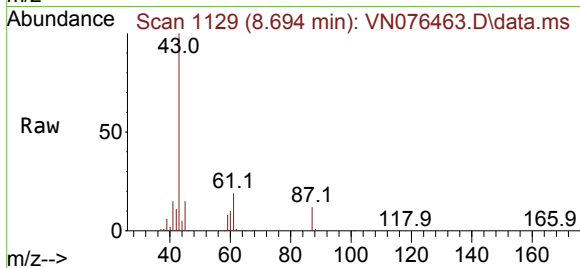
ClientSampleId :

Tgt Ion: 62 Resp: 1484

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 33.295 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

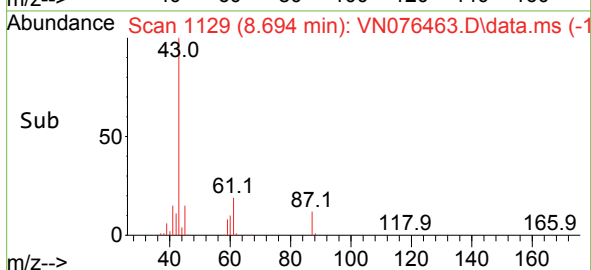
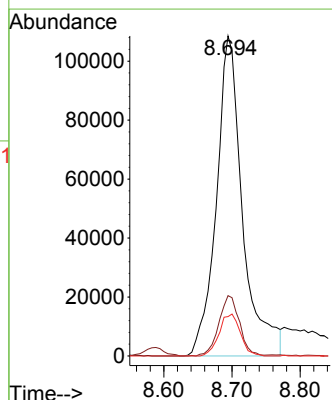
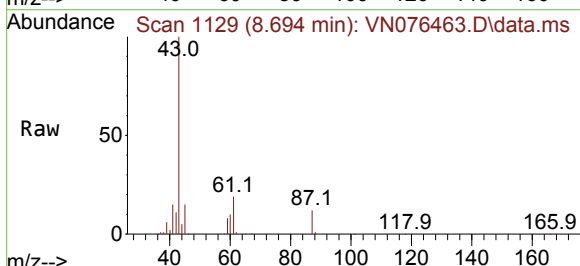
Tgt Ion: 43 Resp: 290419

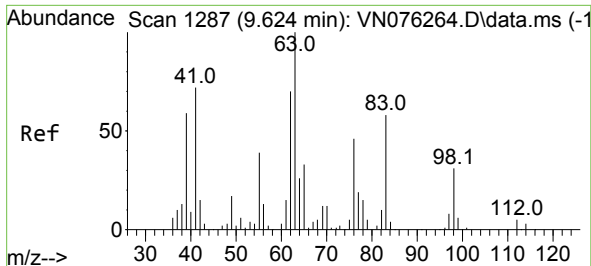
Ion Ratio Lower Upper

43 100

61 14.8 23.5 35.3#

87 10.6 13.8 20.6#





#45

1,2-Dichloropropane

Concen: 0.608 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

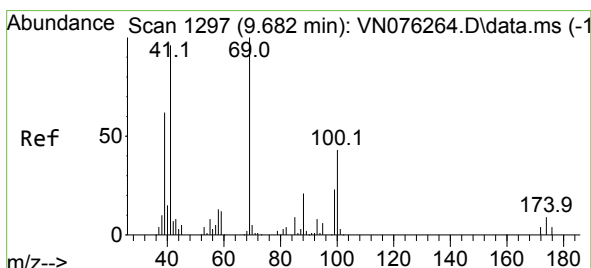
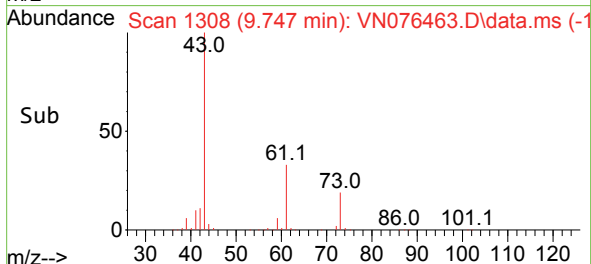
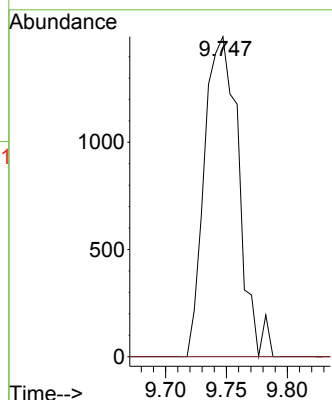
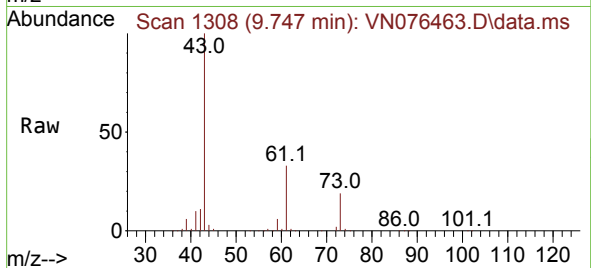
ClientSampleId :

Tgt Ion: 63 Resp: 2912

Ion Ratio Lower Upper

63 100

65 0.0 26.4 39.6#



#48

Methyl methacrylate

Concen: 1.438 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

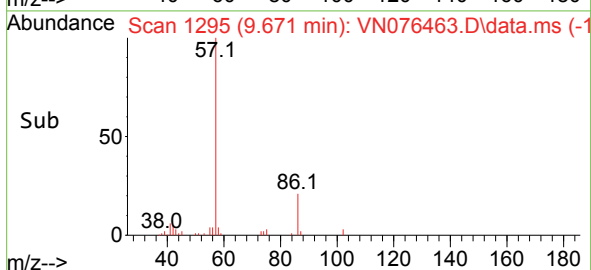
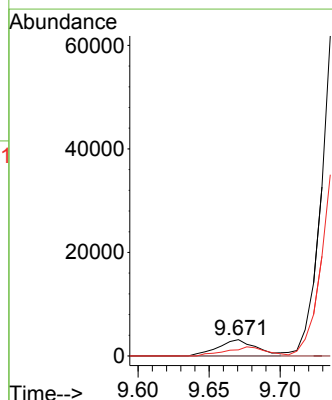
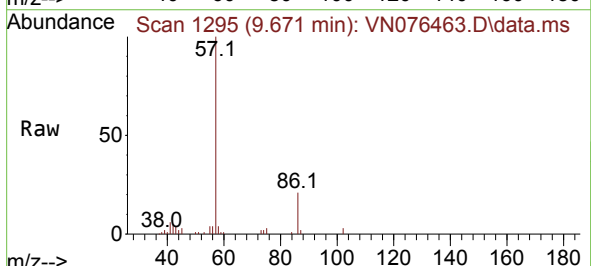
Tgt Ion: 41 Resp: 5937

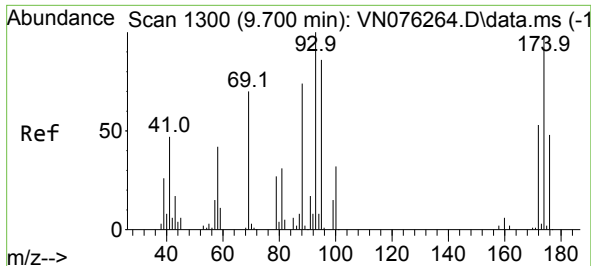
Ion Ratio Lower Upper

41 100

69 0.0 80.8 121.2#

39 57.8 54.4 81.6





#49

1,4-Dioxane

Concen: 4.682 ug/l

RT: 9.753 min Scan# 1309

Delta R.T. 0.053 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

ClientSampleId :

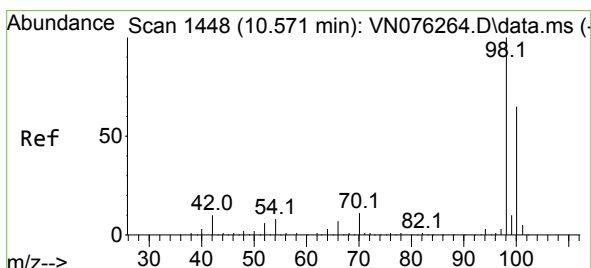
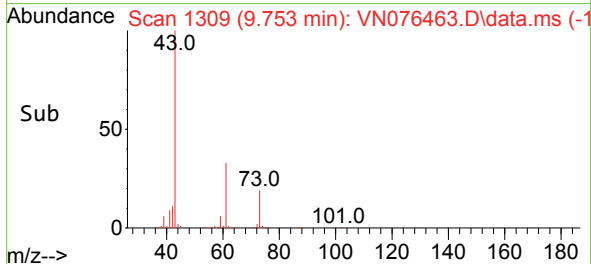
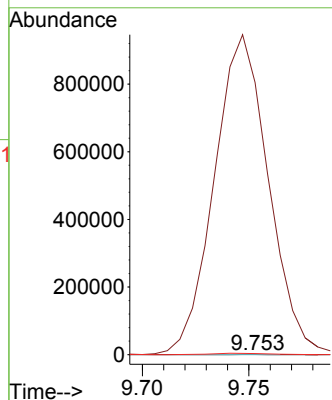
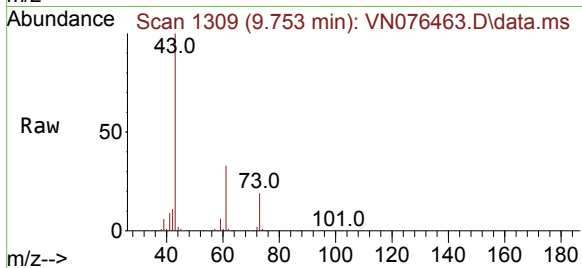
Tgt Ion: 88 Resp: 408

Ion Ratio Lower Upper

88 100

43 414427.0 18.1 27.1#

58 1986.0 46.5 69.7#



#50

Toluene-d8

Concen: 50.917 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. -0.001 min

Lab File: VN076463.D

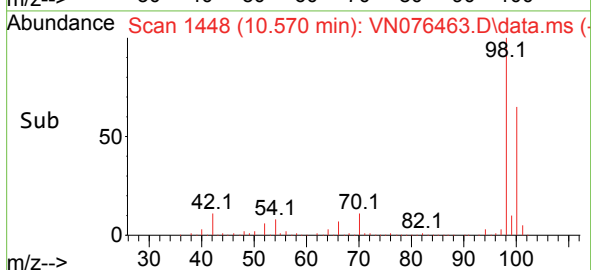
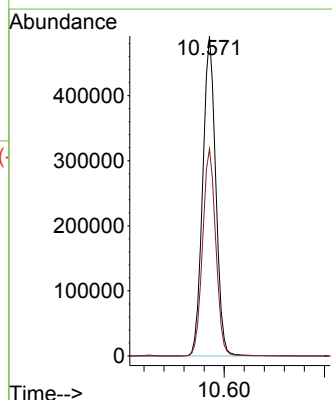
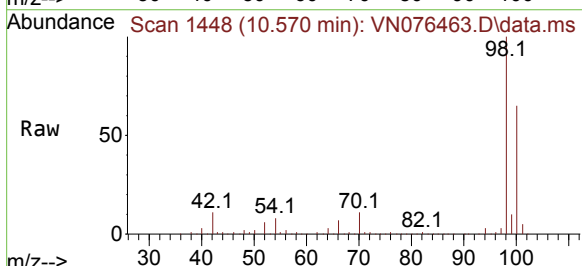
Acq: 30 Jan 2023 17:41

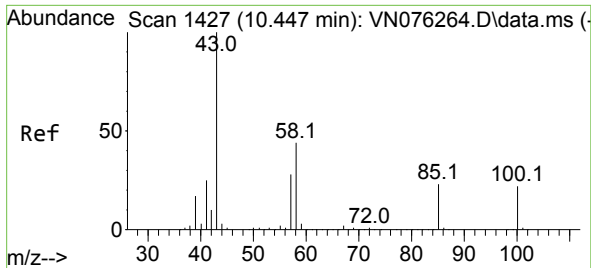
Tgt Ion: 98 Resp: 884615

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4

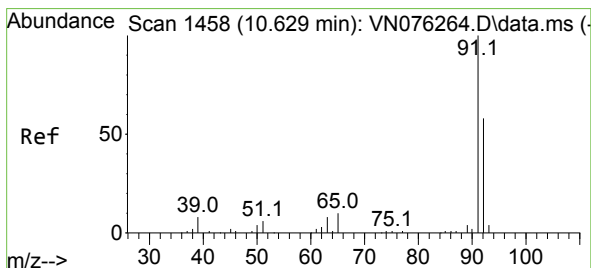
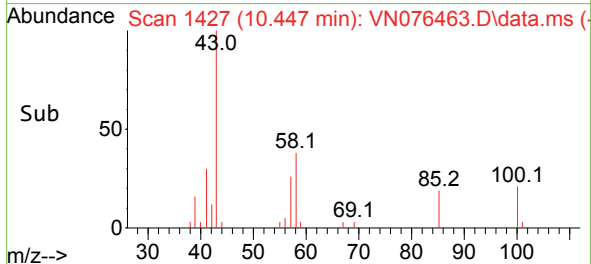
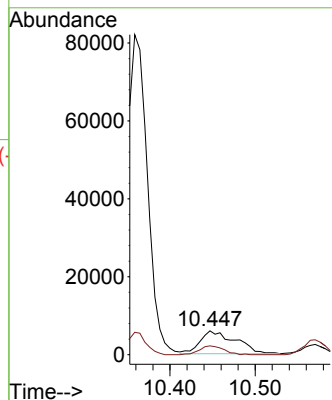
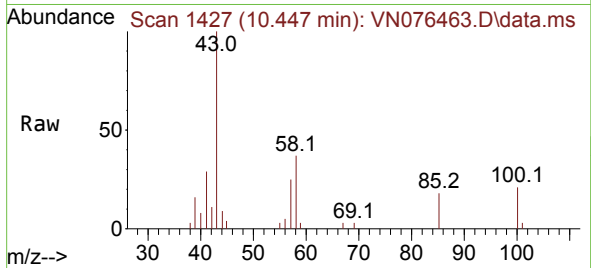




#51
4-Methyl-2-Pentanone
Concen: 3.326 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

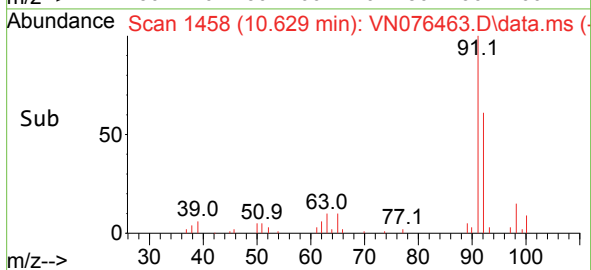
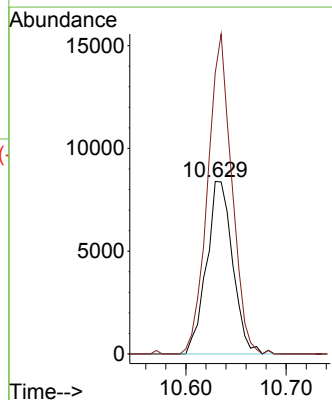
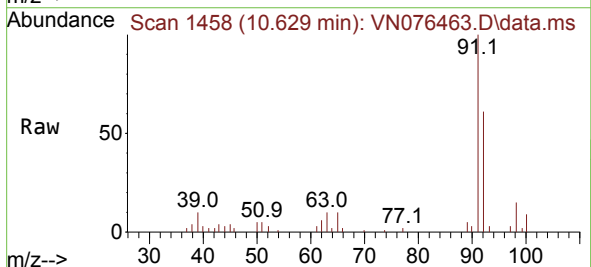
Instrument :
MSVOA_N
ClientSampleId :

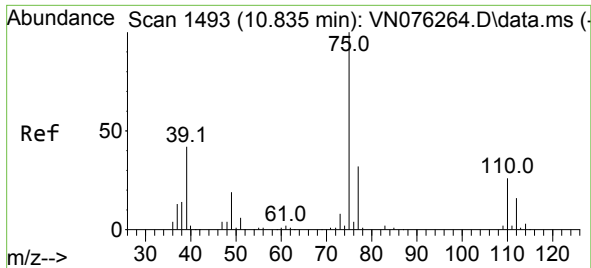
Tgt Ion: 43 Resp: 17030
Ion Ratio Lower Upper
43 100
58 26.5 35.1 52.7#



#52
Toluene
Concen: 1.136 ug/l
RT: 10.629 min Scan# 1458
Delta R.T. 0.000 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 92 Resp: 15185
Ion Ratio Lower Upper
92 100
91 171.4 136.6 205.0

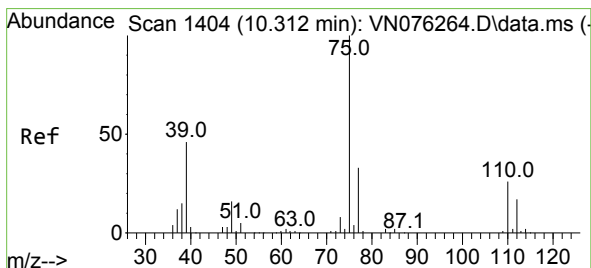
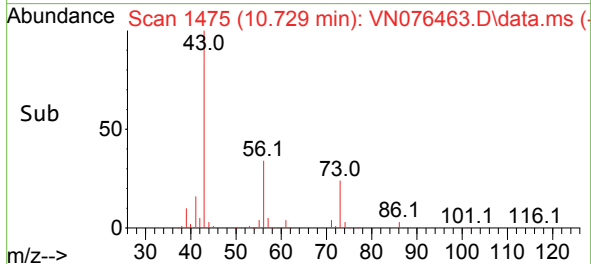
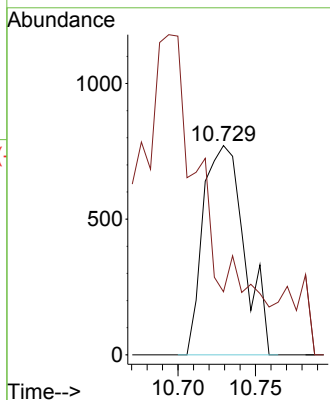
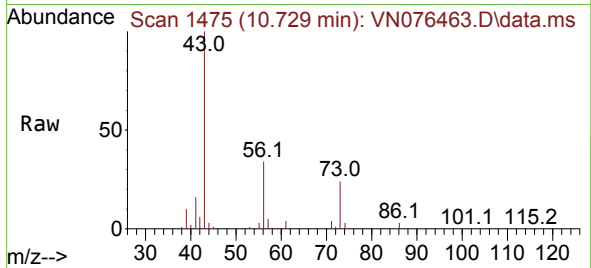




#53
 t-1,3-Dichloropropene
 Concen: 0.212 ug/l
 RT: 10.729 min Scan# 1416
 Delta R.T. -0.106 min
 Lab File: VN076463.D
 Acq: 30 Jan 2023 17:41

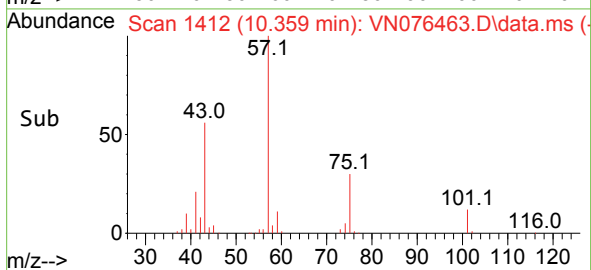
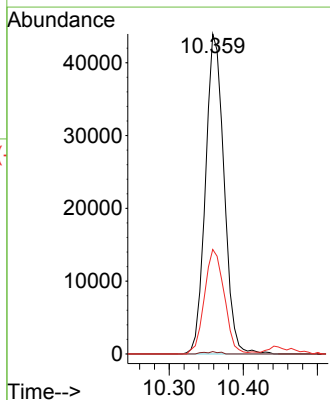
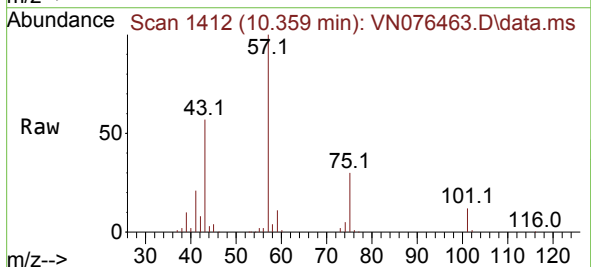
Instrument :
 MSVOA_N
 ClientSampleId :

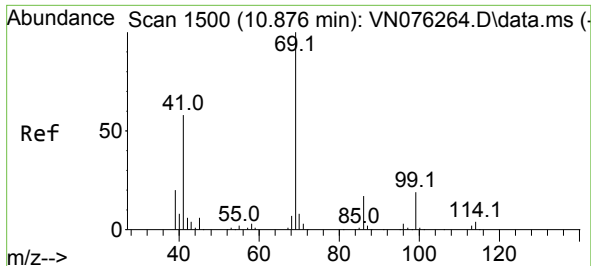
Tgt Ion: 75 Resp: 1416
 Ion Ratio Lower Upper
 75 100
 77 4.9 25.8 38.6#



#54
 cis-1,3-Dichloropropene
 Concen: 9.951 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076463.D
 Acq: 30 Jan 2023 17:41

Tgt Ion: 75 Resp: 76482
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.5 39.7#
 39 32.6 37.1 55.7#

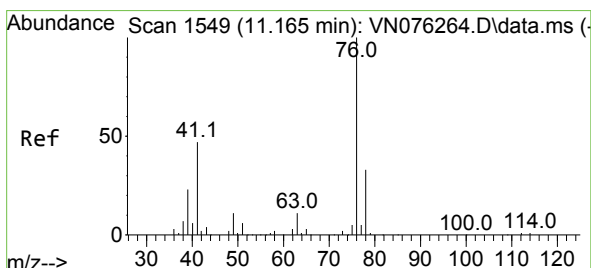
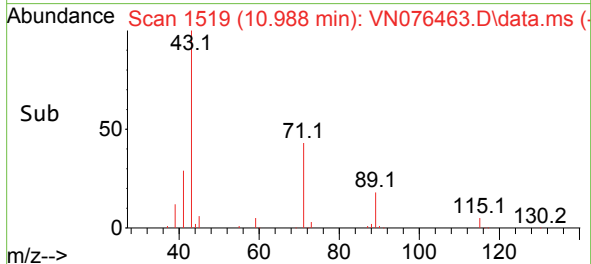
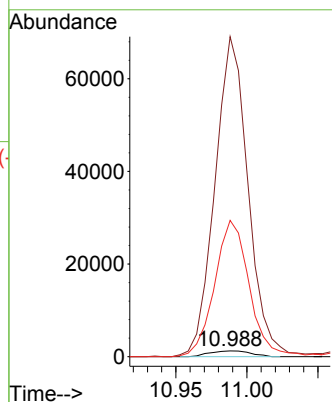
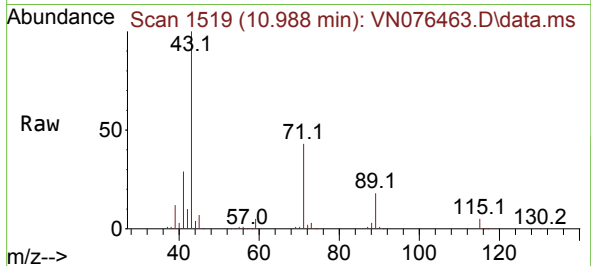




#56
Ethyl methacrylate
Concen: 0.383 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.112 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

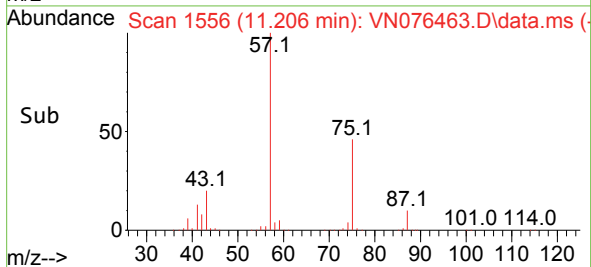
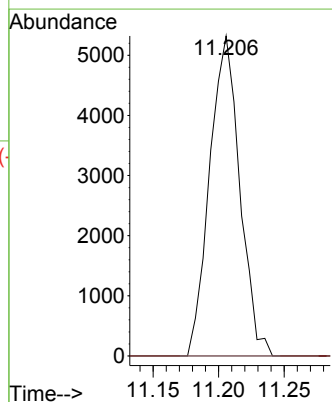
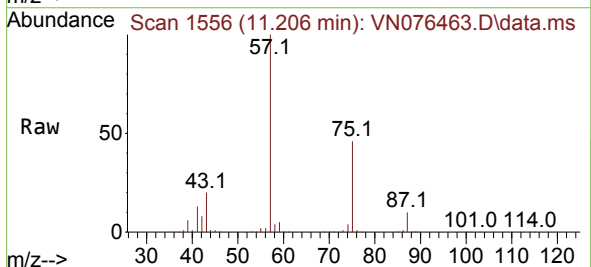
Instrument :
MSVOA_N
ClientSampleId :

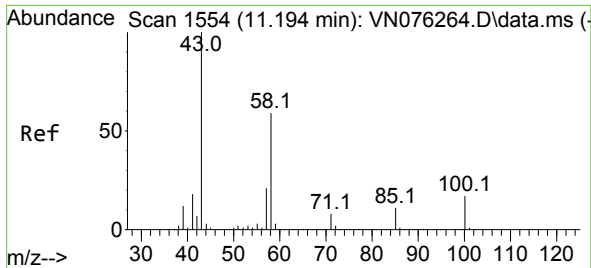
Tgt Ion: 69 Resp: 2529
Ion Ratio Lower Upper
69 100
41 4443.6 45.3 67.9#
39 1972.5 29.3 43.9#



#57
1,3-Dichloropropane
Concen: 1.025 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 76 Resp: 8508
Ion Ratio Lower Upper
76 100
78 0.0 26.4 39.6#

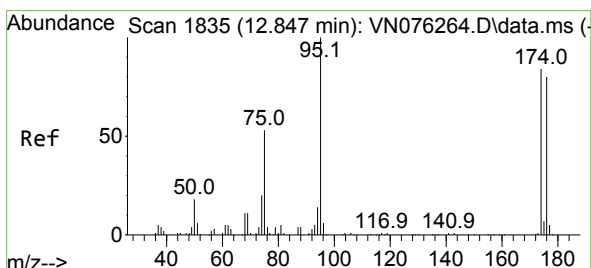
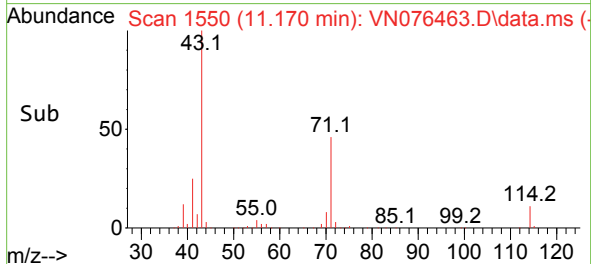
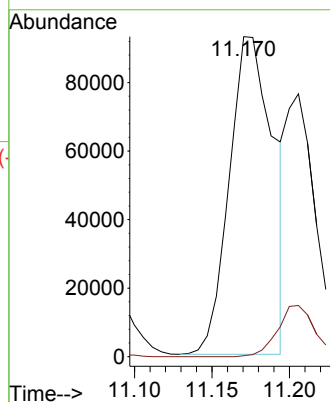
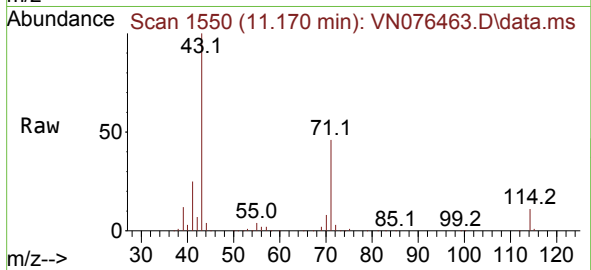




#59
2-Hexanone
Concen: 49.287 ug/l
RT: 11.170 min Scan# 1115
Delta R.T. -0.024 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

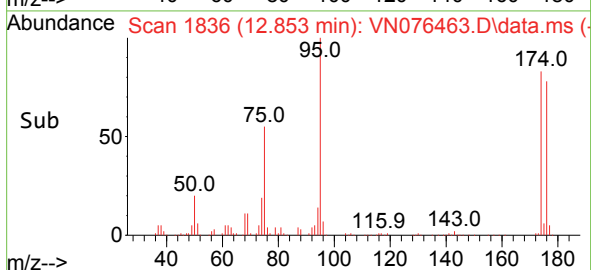
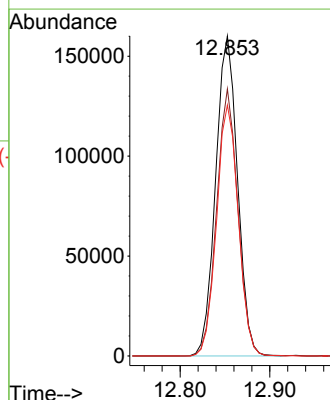
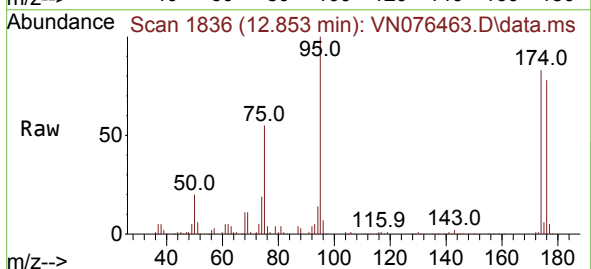
Instrument :
MSVOA_N
ClientSampleId :

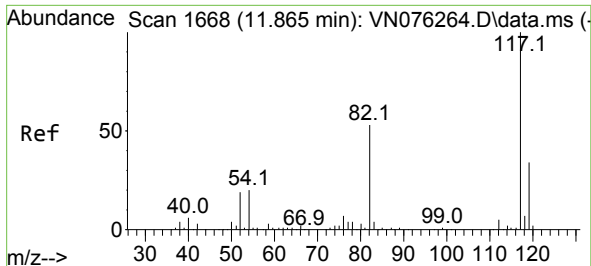
Tgt Ion: 43 Resp: 182885
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.3#



#62
4-Bromofluorobenzene
Concen: 47.815 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 95 Resp: 271196
Ion Ratio Lower Upper
95 100
174 81.3 0.0 174.6
176 77.8 0.0 167.8

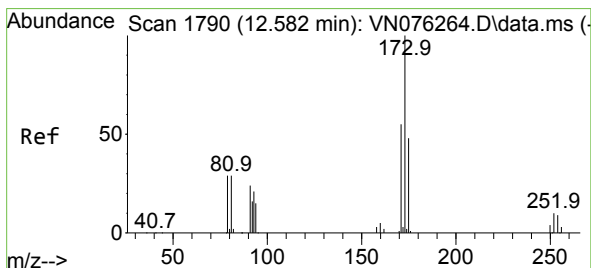
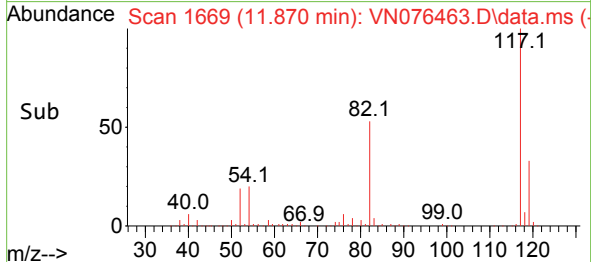
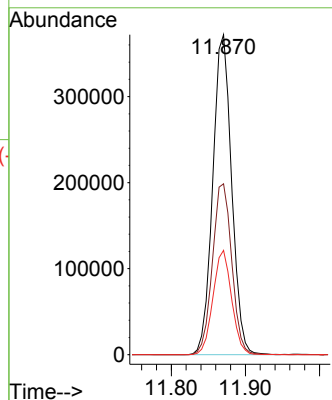
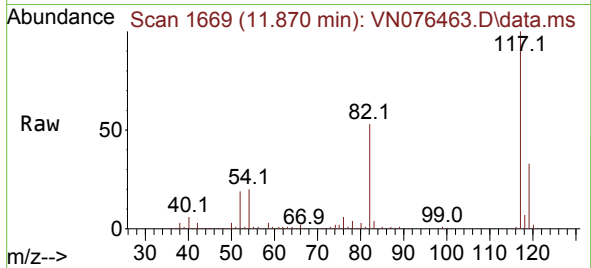




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

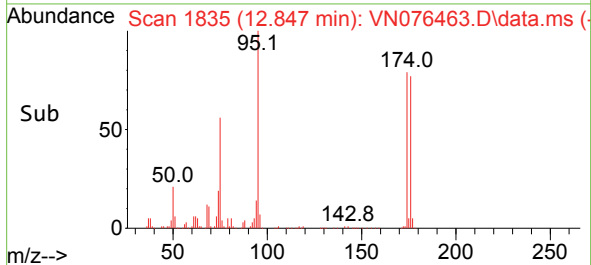
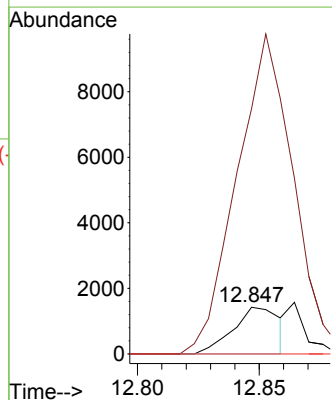
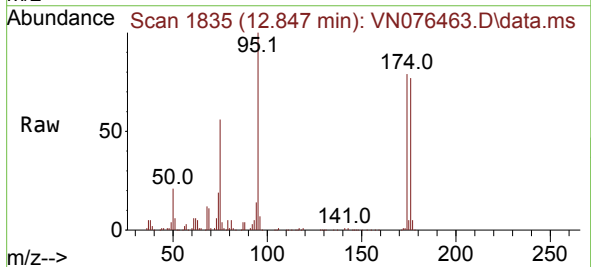
Instrument :
MSVOA_N
ClientSampleId :

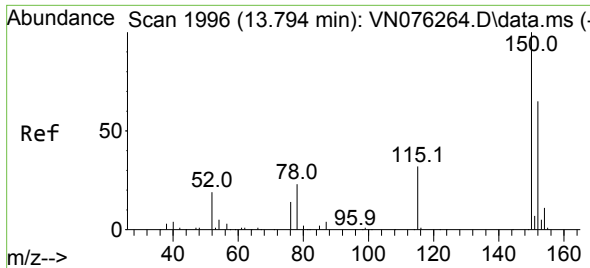
Tgt Ion:117 Resp: 658220
Ion Ratio Lower Upper
117 100
82 53.4 42.2 63.2
119 32.6 26.9 40.3



#71
Bromoform
Concen: 0.509 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion:173 Resp: 1902
Ion Ratio Lower Upper
173 100
175 654.4 24.1 72.4#
254 0.0 0.0 0.0

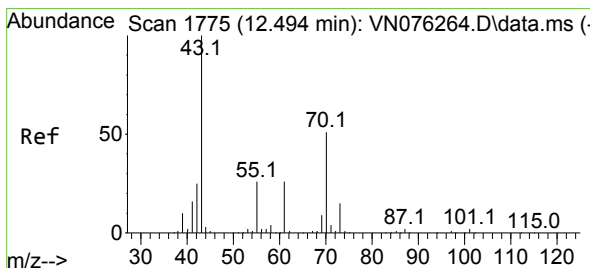
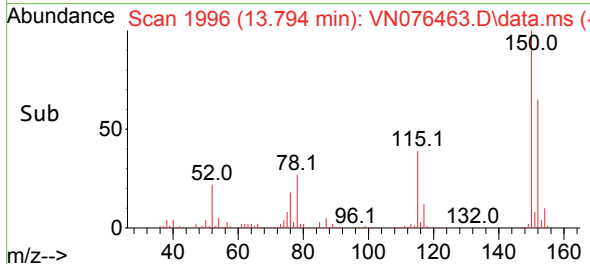
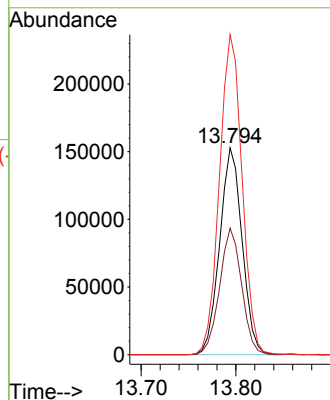
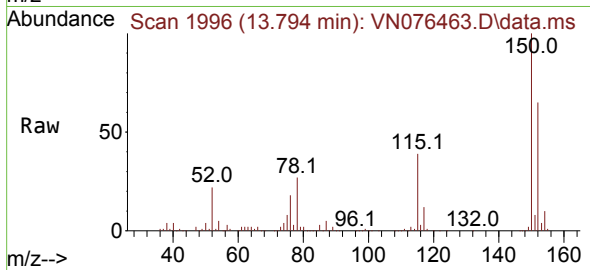




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

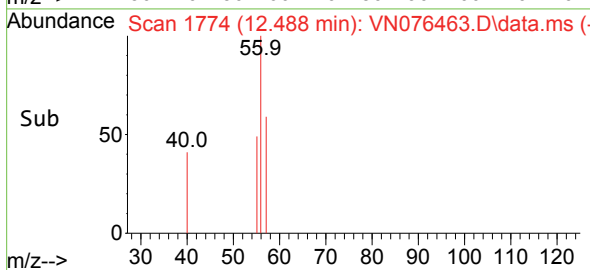
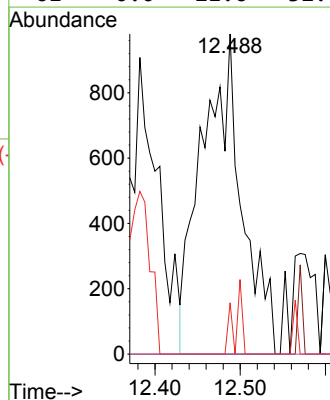
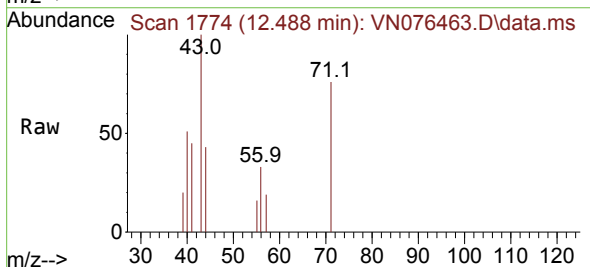
Instrument :
MSVOA_N
ClientSampleId :

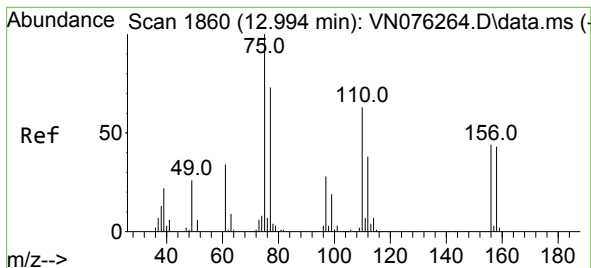
Tgt Ion:152 Resp: 252201
Ion Ratio Lower Upper
152 100
115 59.9 29.6 88.9
150 155.9 0.0 351.4



#74
N-ethyl acetate
Concen: 0.573 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076463.D
Acq: 30 Jan 2023 17:41

Tgt Ion: 43 Resp: 3217
Ion Ratio Lower Upper
43 100
70 0.0 41.2 61.8#
55 0.0 21.0 31.6#
61 0.0 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 31.788 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

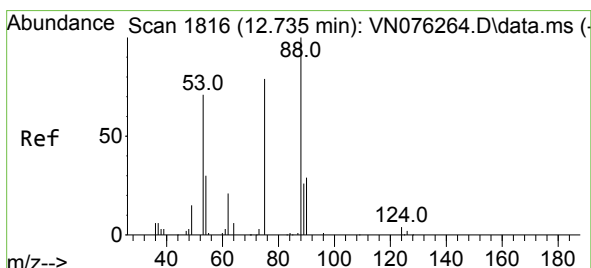
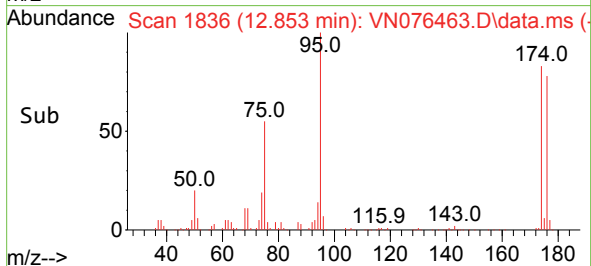
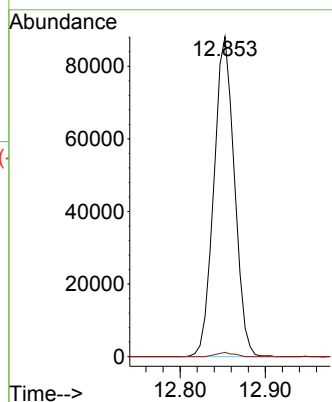
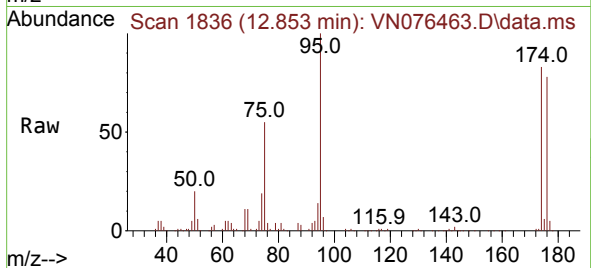
ClientSampleId :

Tgt Ion: 75 Resp: 147637

Ion Ratio Lower Upper

75 100

77 1.2 75.2 225.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 97.400 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

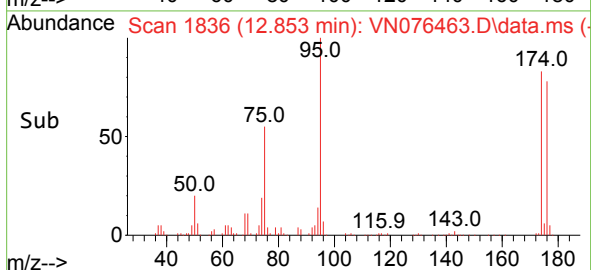
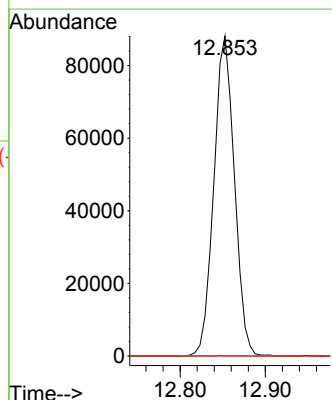
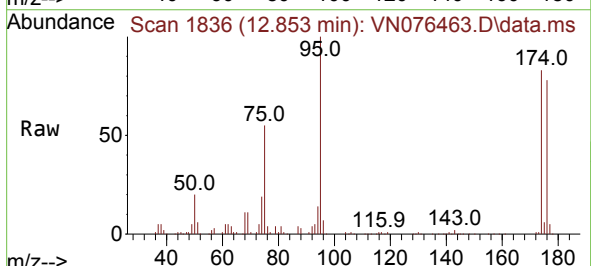
Tgt Ion: 75 Resp: 147637

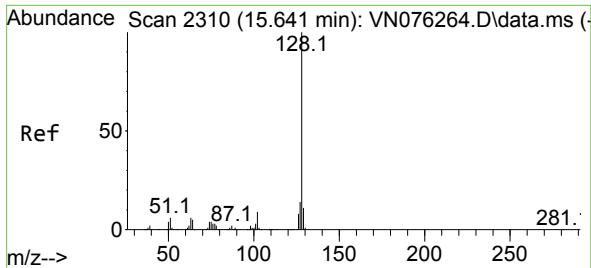
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#





#95

Naphthalene

Concen: 1.898 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

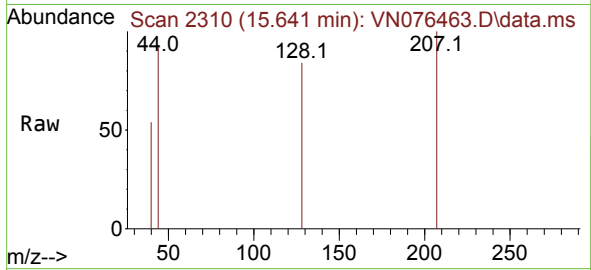
Lab File: VN076463.D

Acq: 30 Jan 2023 17:41

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 807

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#

