

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021623\
 Data File : VN076713.D
 Acq On : 16 Feb 2023 15:51
 Operator : JC\MD
 Sample : 01537-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 00:13:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

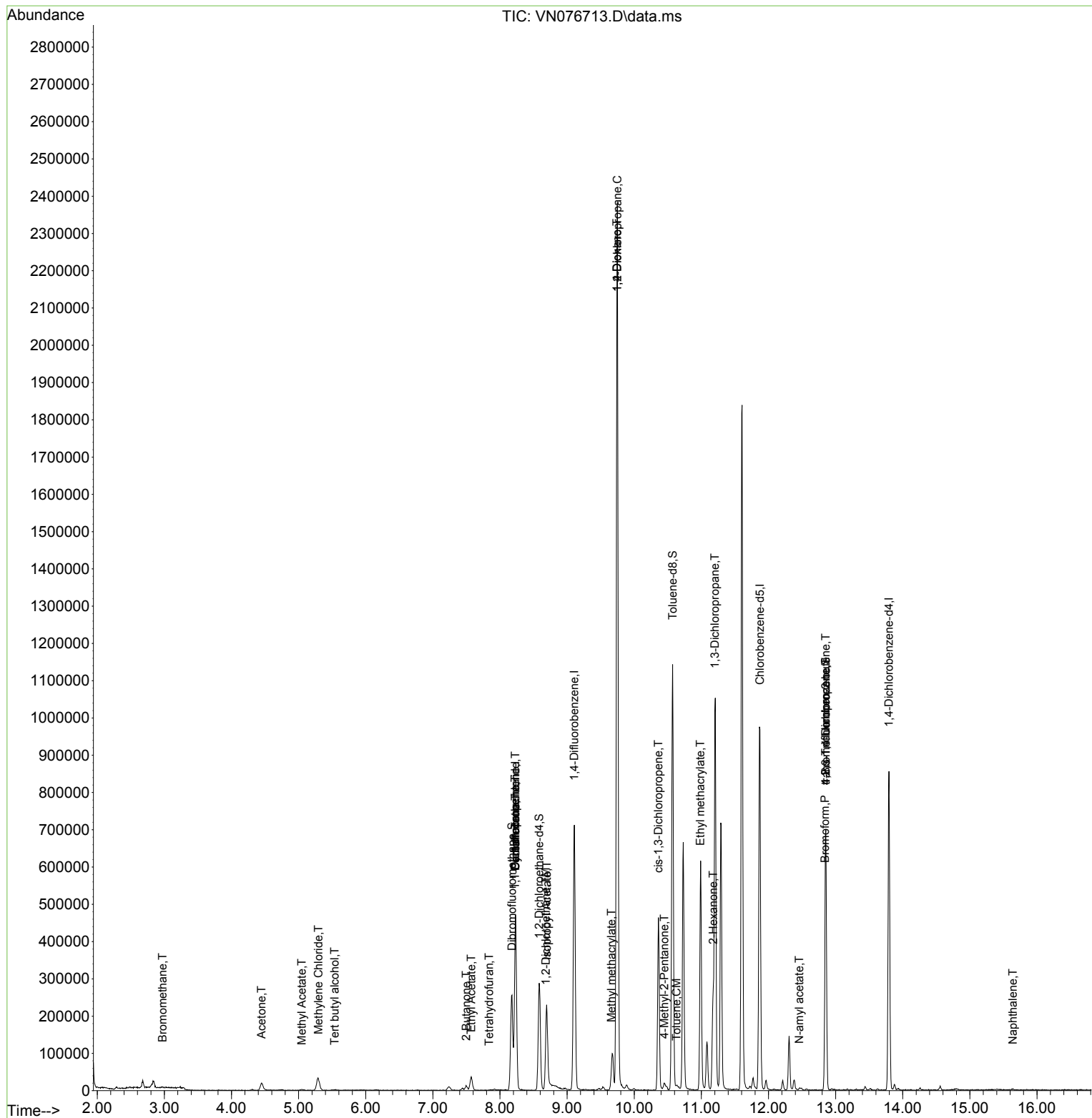
Internal Standards						
1) Pentafluorobenzene	8.231	168	325326	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	590370	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	565712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	218600	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	231120	51.448	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.900%			
35) Dibromofluoromethane	8.178	113	180863	46.780	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.560%			
50) Toluene-d8	10.572	98	751066	52.018	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.040%			
62) 4-Bromofluorobenzene	12.854	95	237376	49.638	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.280%			
Target Compounds						Qvalue
5) Bromomethane	2.972	94	745	0.277	ug/l #	41
11) Tert butyl alcohol	5.537	59	1339	2.258	ug/l #	85
16) Acetone	4.449	43	37207	18.542	ug/l	97
18) Methyl Acetate	5.048	43	4699	0.717	ug/l	95
20) Methylene Chloride	5.296	84	23757	5.649	ug/l #	82
25) 2-Butanone	7.495	43	16417	5.546	ug/l	93
29) Tetrahydrofuran	7.837	42	460	0.238	ug/l #	55
31) Cyclohexane	8.231	56	8994	1.276	ug/l #	6
36) 1,1-Dichloropropene	8.225	75	28907	5.175	ug/l #	49
37) Ethyl Acetate	7.572	43	53430	9.091	ug/l	97
38) Carbon Tetrachloride	8.231	117	36213	6.426	ug/l #	19
42) 1,2-Dichloroethane	8.684	62	1900	0.318	ug/l #	74
43) Isopropyl Acetate	8.695	43	275859	28.845	ug/l #	85
45) 1,2-Dichloropropane	9.748	63	3208	0.706	ug/l #	44
48) Methyl methacrylate	9.660	41	7899	1.741	ug/l #	46
49) 1,4-Dioxane	9.742	88	74	0.943	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	20963	3.445	ug/l #	72
52) Toluene	10.630	92	3815	0.368	ug/l	100
54) cis-1,3-Dichloropropene	10.360	75	78423	12.102	ug/l #	66
56) Ethyl methacrylate	10.983	69	2114	0.357	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	10582	1.463	ug/l #	43
59) 2-Hexanone	11.178	43	208408	47.502	ug/l #	27
71) Bromoform	12.842	173	1347	0.422	ug/l #	1
74) N-amyl acetate	12.460	43	5609	0.777	ug/l #	49
76) 1,2,3-Trichloropropane	12.854	75	128988	29.186	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	128988	85.007	ug/l #	4
95) Naphthalene	15.642	128	2511	0.214	ug/l #	84

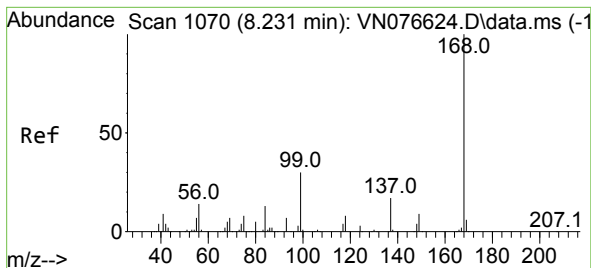
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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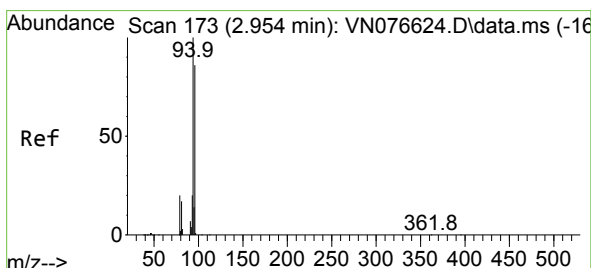
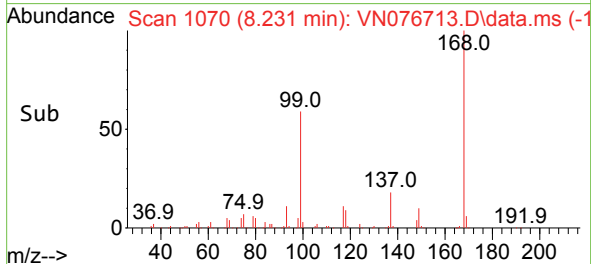
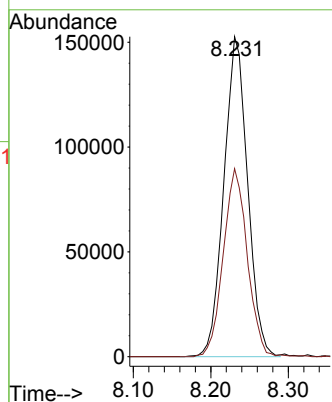
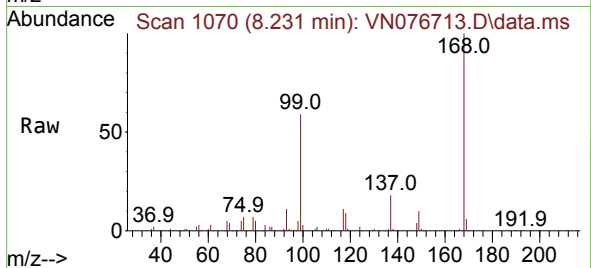




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

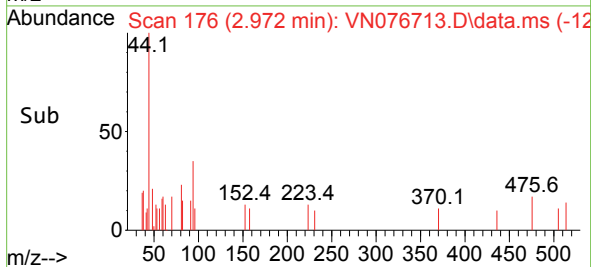
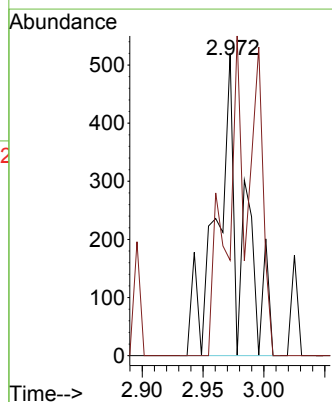
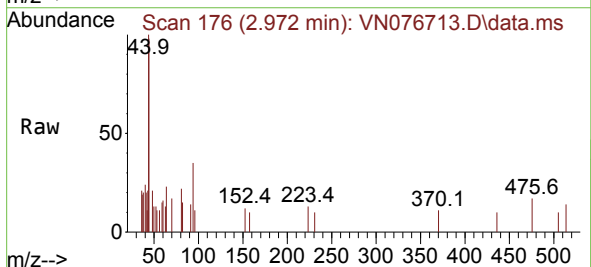
Instrument :
MSVOA_N
ClientSampleId :

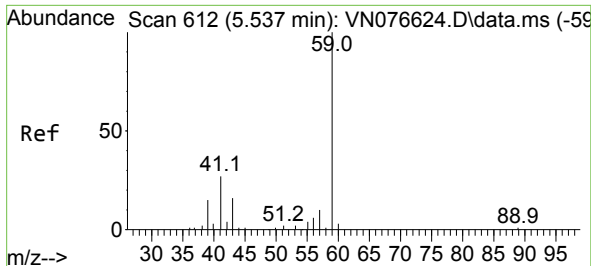
Tgt Ion:168 Resp: 325326
Ion Ratio Lower Upper
168 100
99 58.8 44.8 67.2



#5
Bromomethane
Concen: 0.277 ug/l
RT: 2.972 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

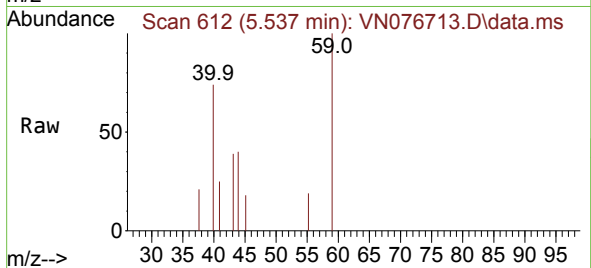
Tgt Ion: 94 Resp: 745
Ion Ratio Lower Upper
94 100
96 31.5 69.0 103.4#



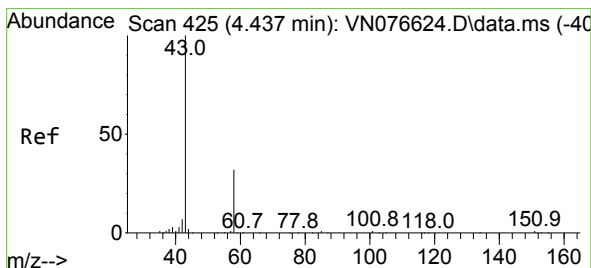
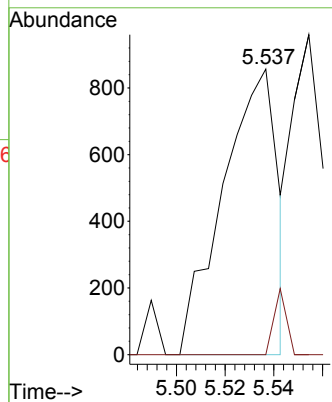
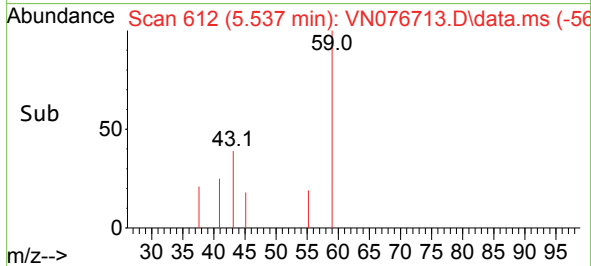


#11
Tert butyl alcohol
Concen: 2.258 ug/l
RT: 5.537 min Scan# 612
Delta R.T. -0.000 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

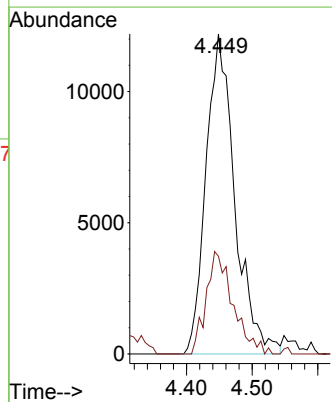
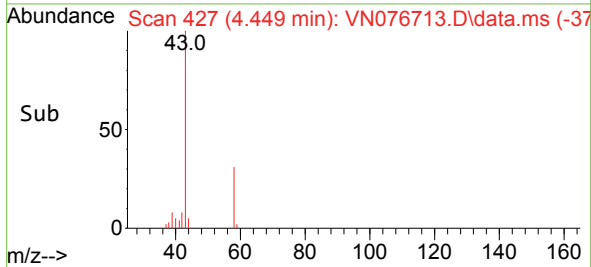
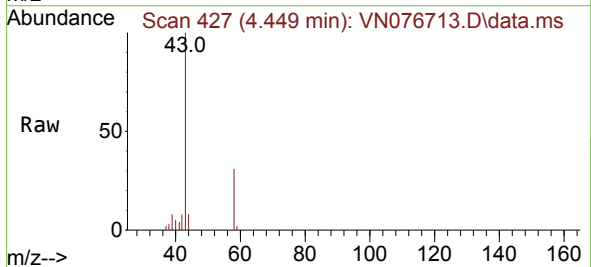


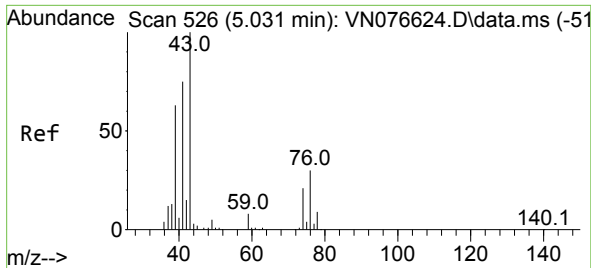
Tgt Ion: 59 Resp: 1339
Ion Ratio Lower Upper
59 100
57 5.2 8.7 13.1#



#16
Acetone
Concen: 18.542 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

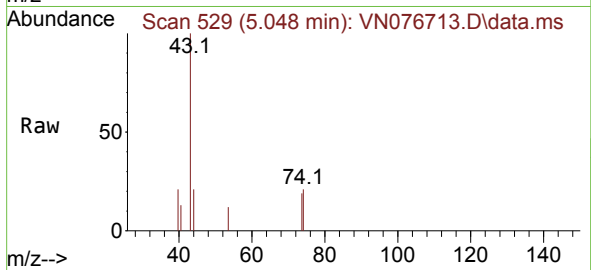
Tgt Ion: 43 Resp: 37207
Ion Ratio Lower Upper
43 100
58 30.6 25.9 38.9



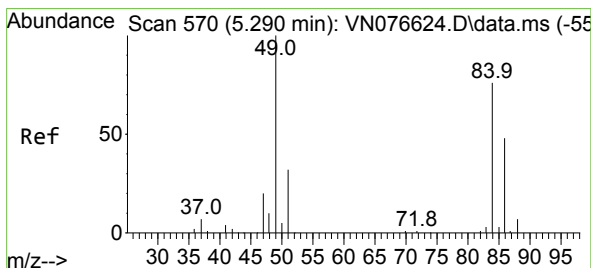
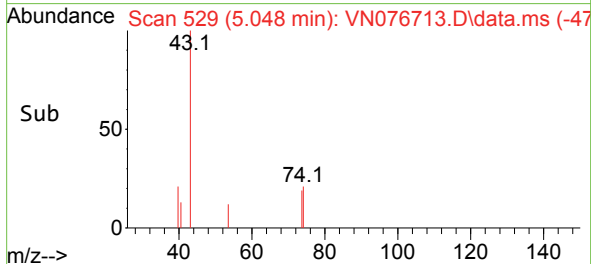
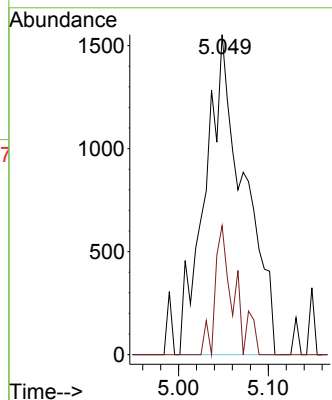


#18
Methyl Acetate
Concen: 0.717 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

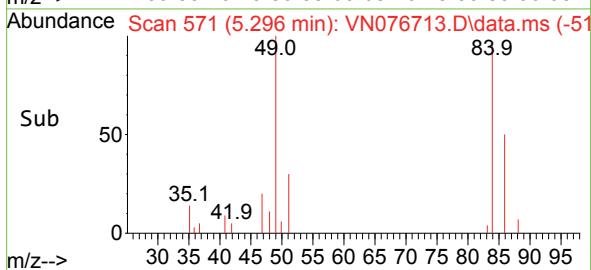
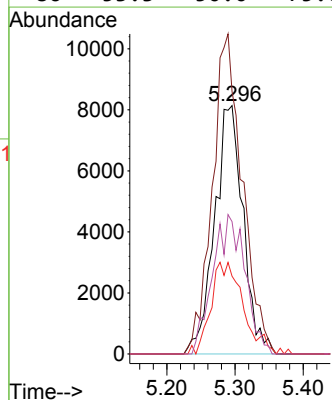
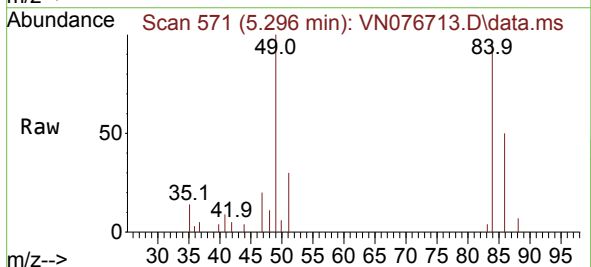


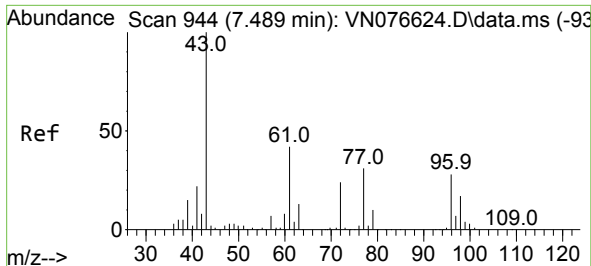
Tgt Ion: 43 Resp: 4699
Ion Ratio Lower Upper
43 100
74 19.7 17.7 26.5



#20
Methylene Chloride
Concen: 5.649 ug/l
RT: 5.296 min Scan# 571
Delta R.T. 0.006 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion: 84 Resp: 23757
Ion Ratio Lower Upper
84 100
49 105.7 104.9 157.3
51 31.3 33.8 50.8#
86 53.3 50.0 75.0





#25

2-Butanone

Concen: 5.546 ug/l

RT: 7.495 min Scan# 944

Delta R.T. 0.006 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

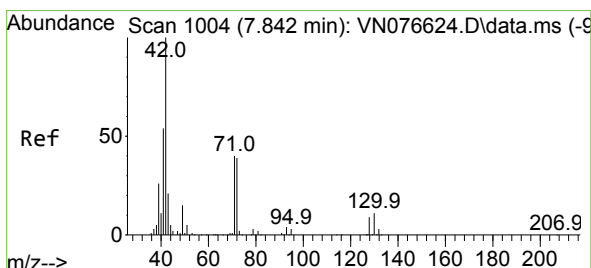
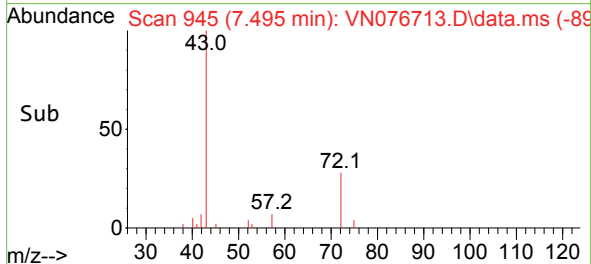
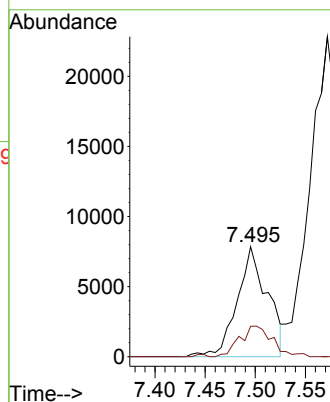
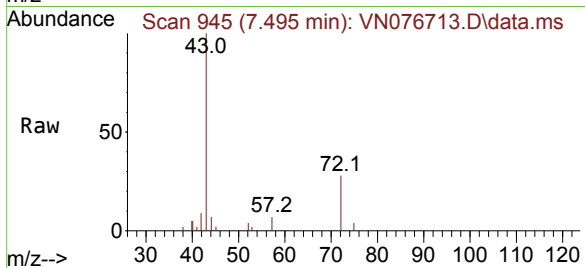
ClientSampleId :

Tgt Ion: 43 Resp: 16417

Ion Ratio Lower Upper

43 100

72 27.7 19.4 29.2



#29

Tetrahydrofuran

Concen: 0.238 ug/l

RT: 7.837 min Scan# 1003

Delta R.T. -0.005 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

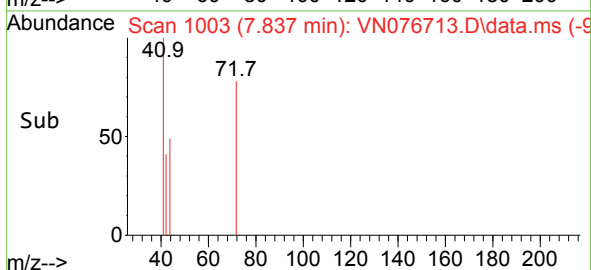
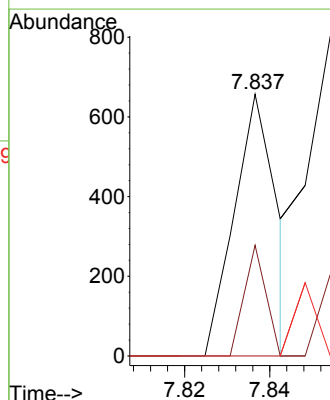
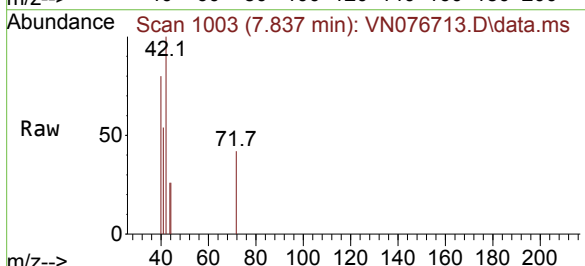
Tgt Ion: 42 Resp: 460

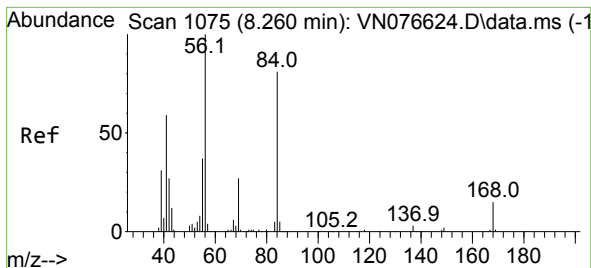
Ion Ratio Lower Upper

42 100

72 21.3 31.5 47.3#

71 0.0 29.8 44.8#





#31

Cyclohexane

Concen: 1.276 ug/l

RT: 8.231 min Scan# 1075

Delta R.T. -0.029 min

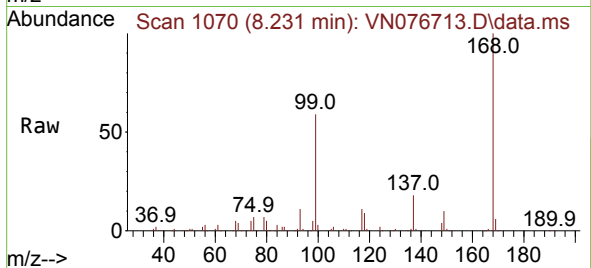
Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

ClientSampleId :



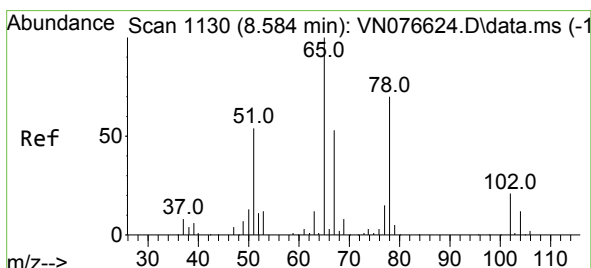
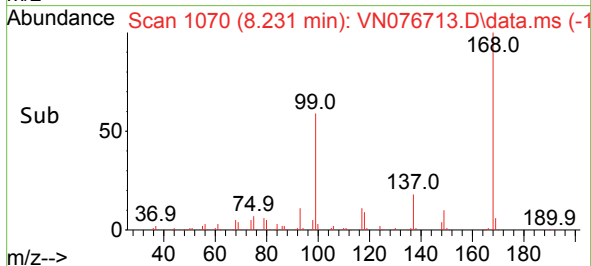
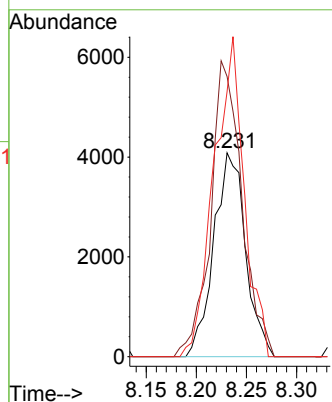
Tgt Ion: 56 Resp: 8994

Ion Ratio Lower Upper

56 100

69 137.4 21.6 32.4#

84 130.0 65.1 97.7#



#33

1,2-Dichloroethane-d4

Concen: 51.448 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076713.D

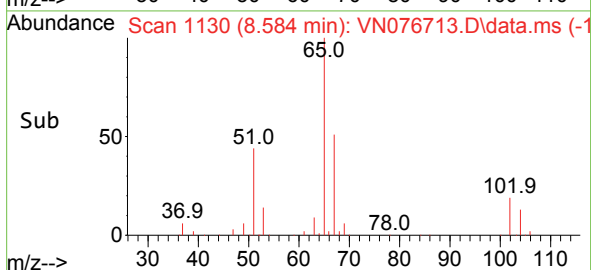
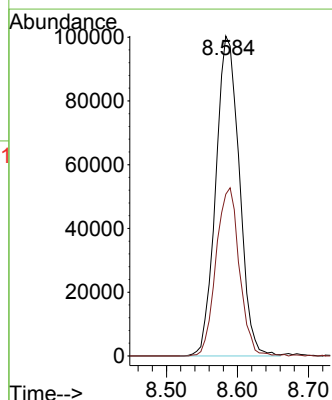
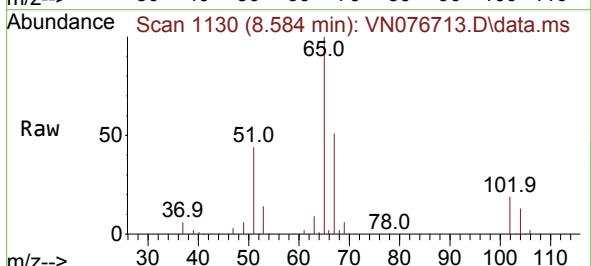
Acq: 16 Feb 2023 15:51

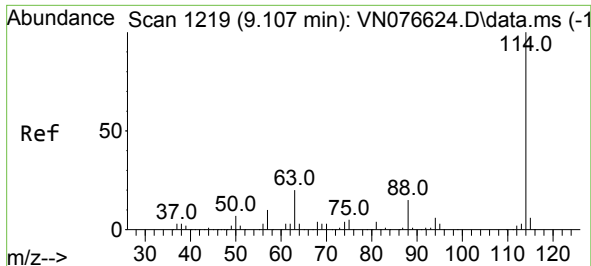
Tgt Ion: 65 Resp: 231120

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

ClientSampleId :

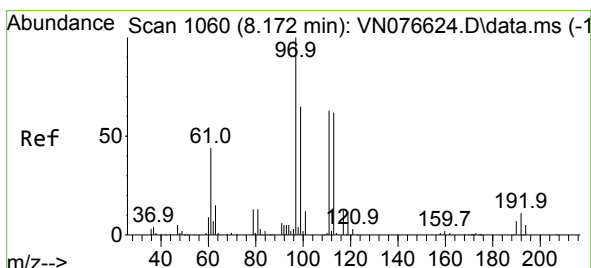
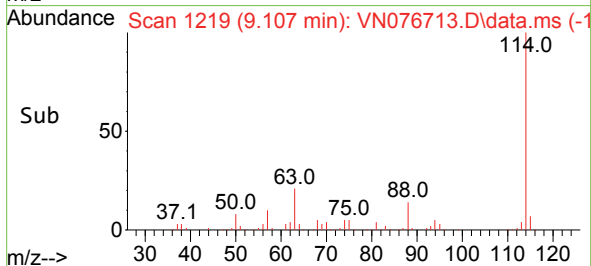
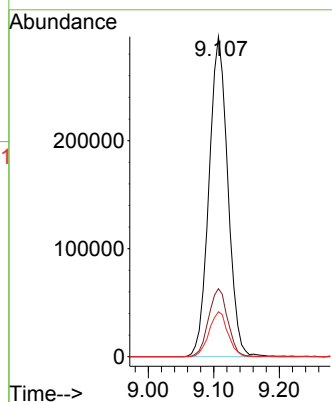
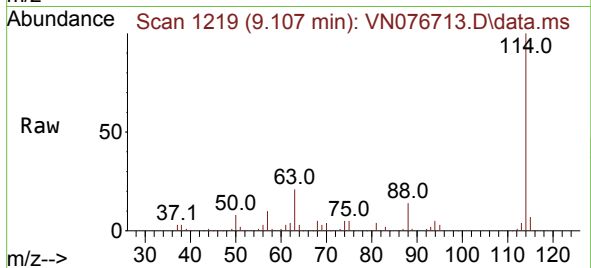
Tgt Ion:114 Resp: 590370

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.0

88 14.1 0.0 29.6



#35

Dibromofluoromethane

Concen: 46.780 ug/l

RT: 8.178 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

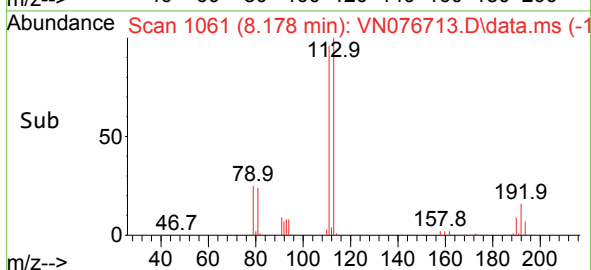
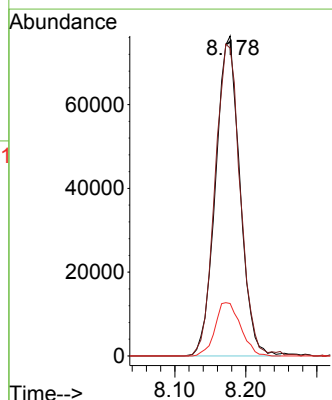
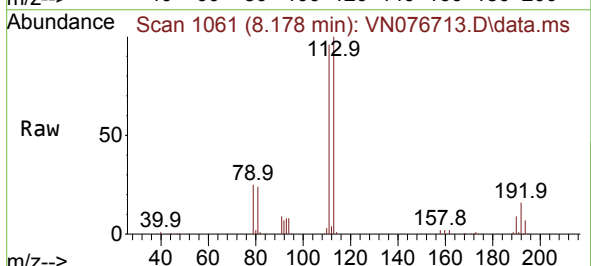
Tgt Ion:113 Resp: 180863

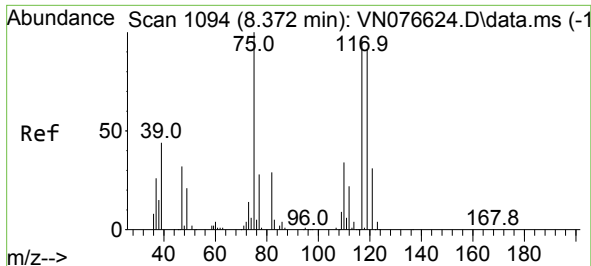
Ion Ratio Lower Upper

113 100

111 101.1 83.1 124.7

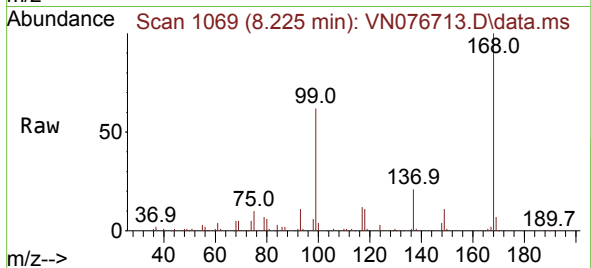
192 17.5 15.6 23.4



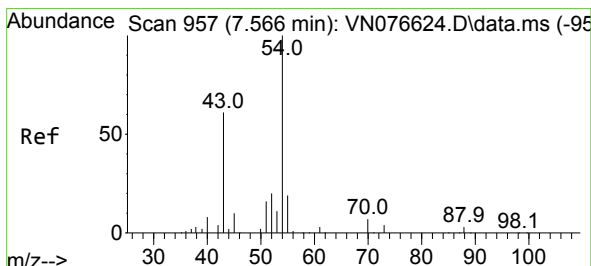
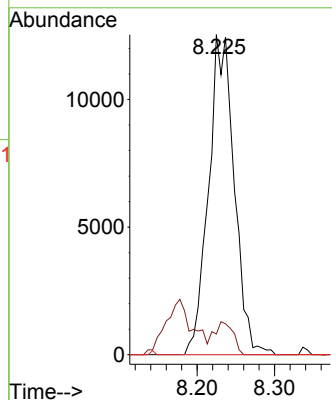
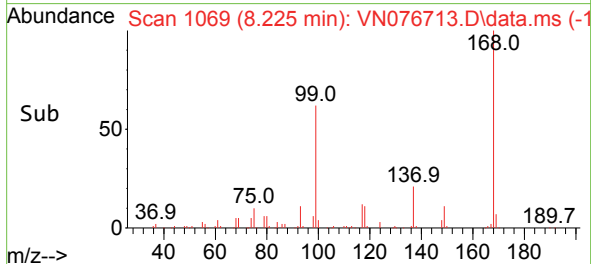


#36
1,1-Dichloropropene
Concen: 5.175 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.147 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
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ClientSampleId :

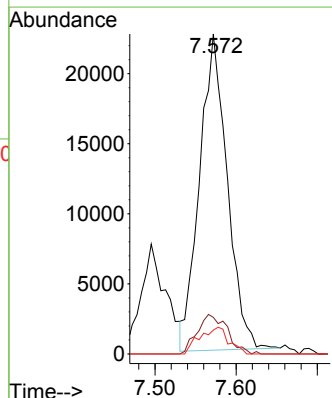
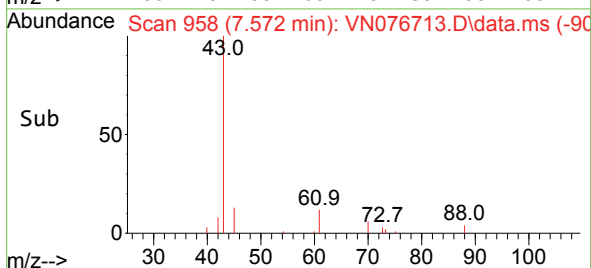
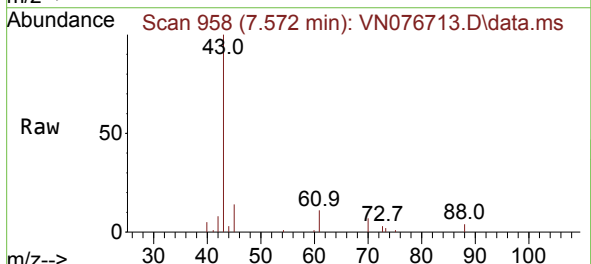


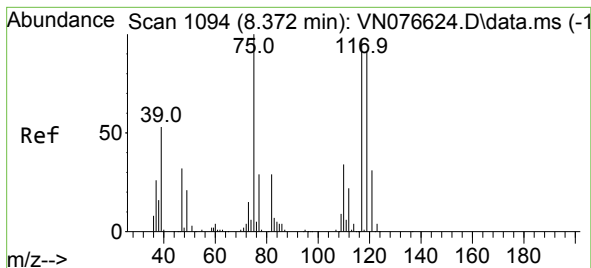
Tgt Ion: 75 Resp: 28907
Ion Ratio Lower Upper
75 100
110 7.7 17.5 52.5#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 9.091 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion: 43 Resp: 53430
Ion Ratio Lower Upper
43 100
61 13.6 9.9 14.9
70 8.8 7.8 11.6





#38

Carbon Tetrachloride

Concen: 6.426 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.141 min

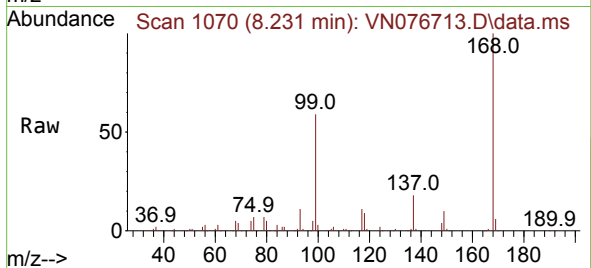
Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

ClientSampleId :



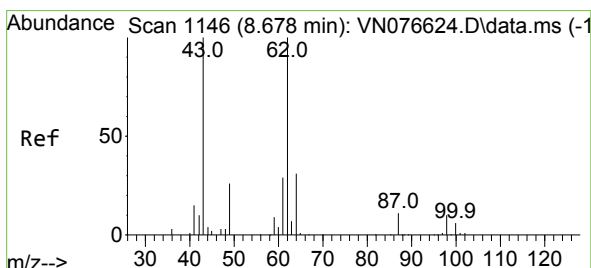
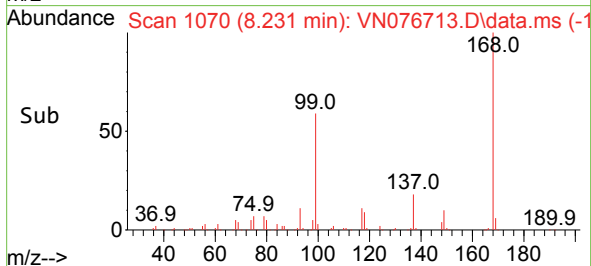
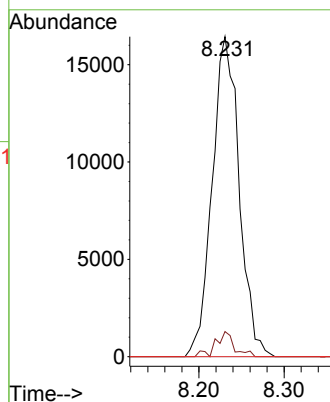
Tgt Ion:117 Resp: 36213

Ion Ratio Lower Upper

117 100

119 7.8 75.4 113.0#

121 0.0 26.0 39.0#



#42

1,2-Dichloroethane

Concen: 0.318 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN076713.D

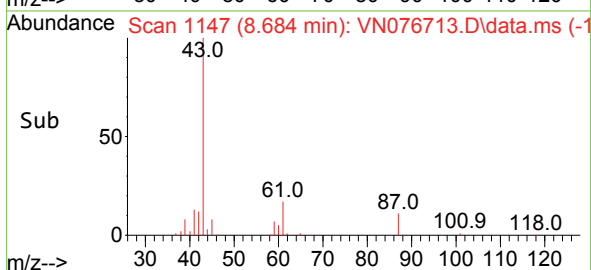
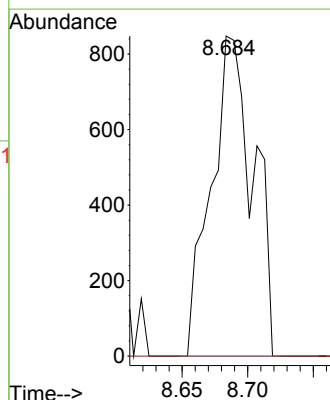
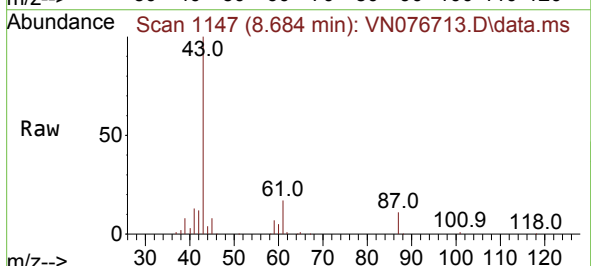
Acq: 16 Feb 2023 15:51

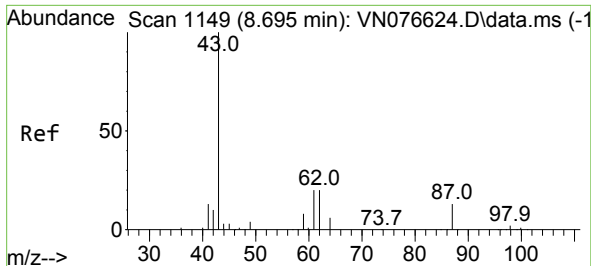
Tgt Ion: 62 Resp: 1900

Ion Ratio Lower Upper

62 100

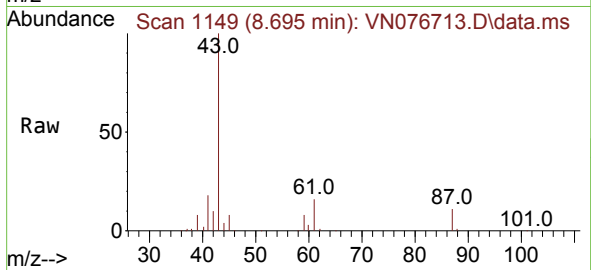
98 0.0 0.0 19.2



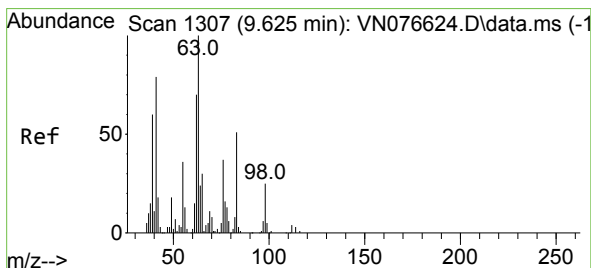
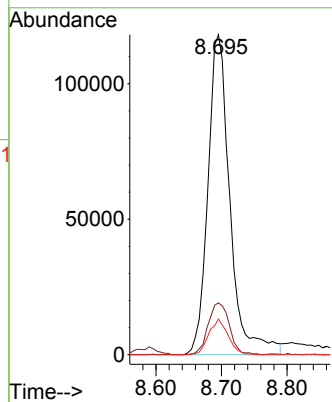
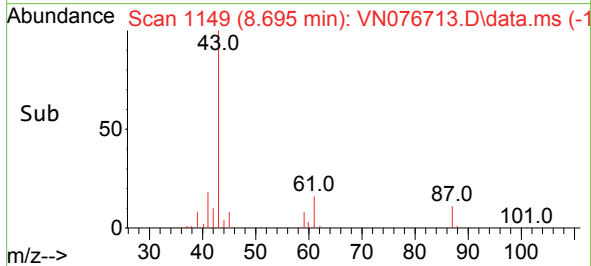


#43
Isopropyl Acetate
Concen: 28.845 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

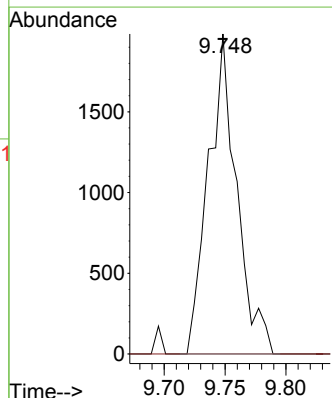
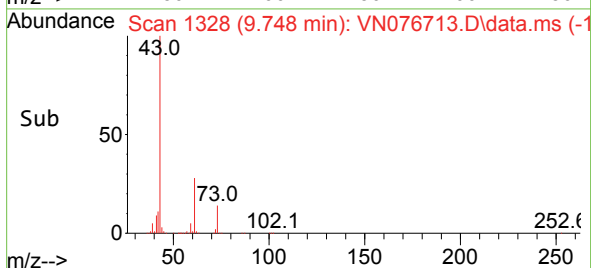
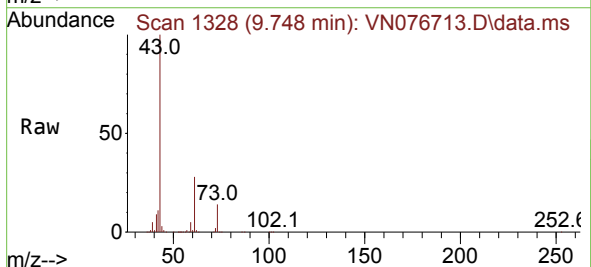


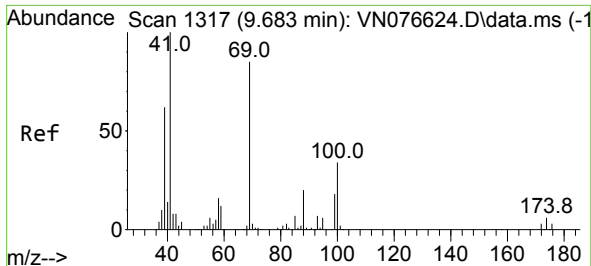
Tgt Ion: 43 Resp: 275859
Ion Ratio Lower Upper
43 100
61 15.6 20.0 30.0#
87 9.7 9.9 14.9#



#45
1,2-Dichloropropane
Concen: 0.706 ug/l
RT: 9.748 min Scan# 1328
Delta R.T. 0.123 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

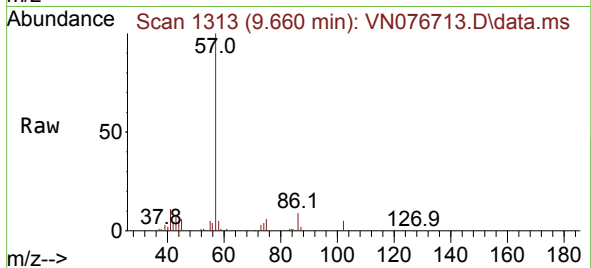
Tgt Ion: 63 Resp: 3208
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#



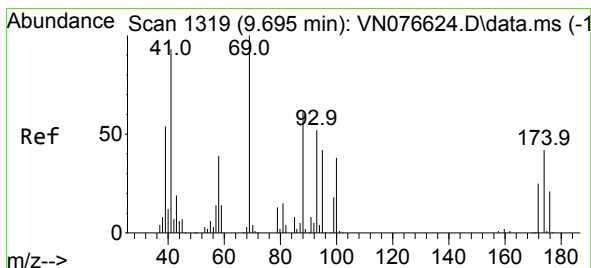
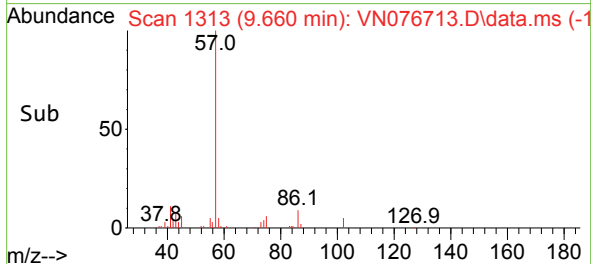
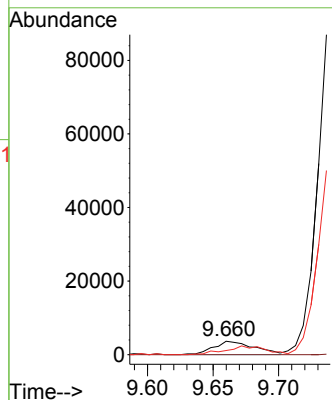


#48
Methyl methacrylate
Concen: 1.741 ug/l
RT: 9.660 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

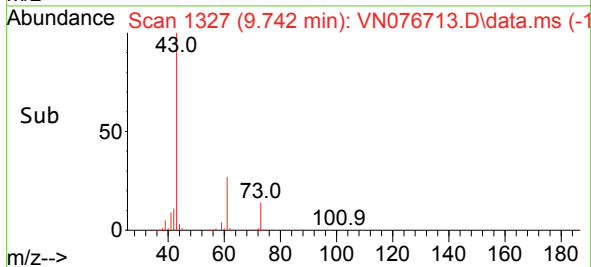
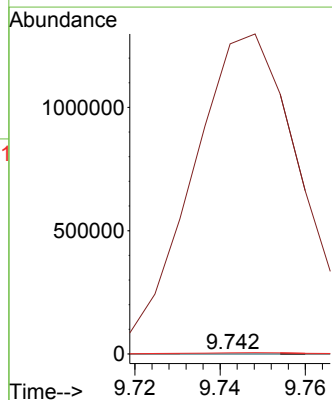
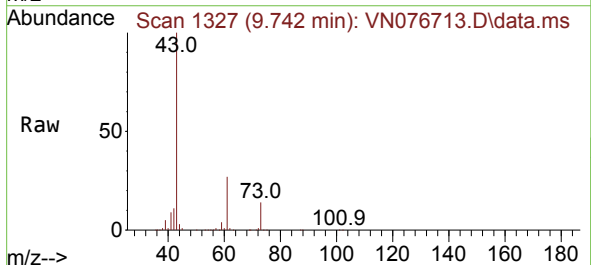


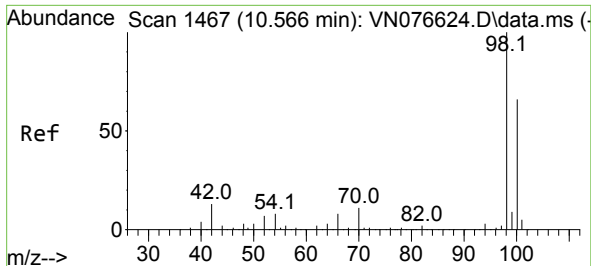
Tgt Ion: 41 Resp: 7899
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 64.2 49.3 73.9



#49
1,4-Dioxane
Concen: 0.943 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.047 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 3204717.6 22.6 33.8#
58 14143.2 57.6 86.4#

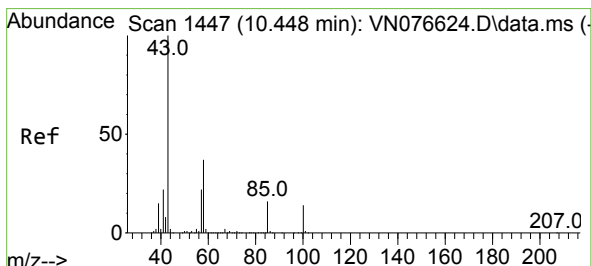
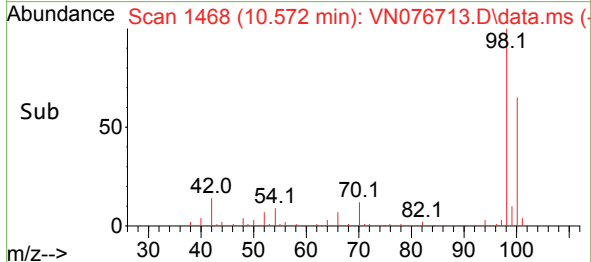
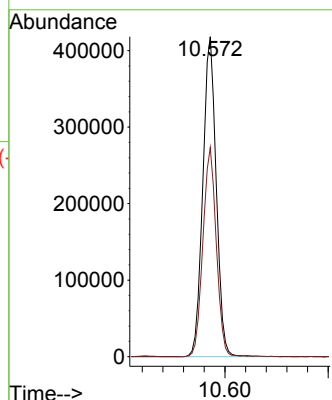
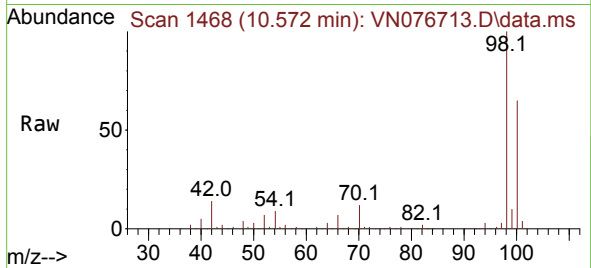




#50
Toluene-d8
Concen: 52.018 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

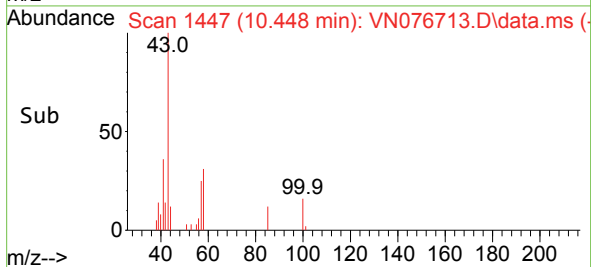
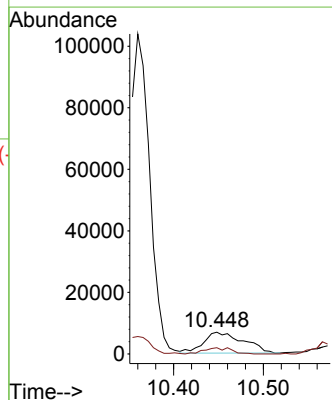
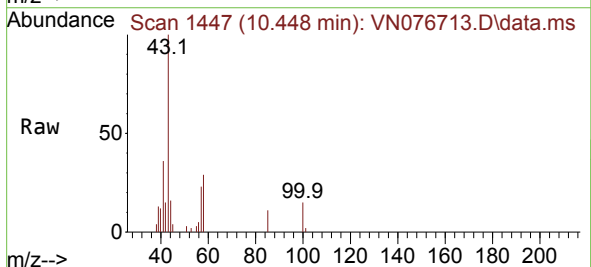
Instrument :
MSVOA_N
ClientSampleId :

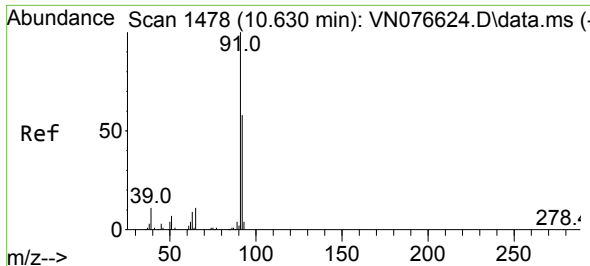
Tgt Ion: 98 Resp: 751066
Ion Ratio Lower Upper
98 100
100 65.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 3.445 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion: 43 Resp: 20963
Ion Ratio Lower Upper
43 100
58 20.4 29.5 44.3#

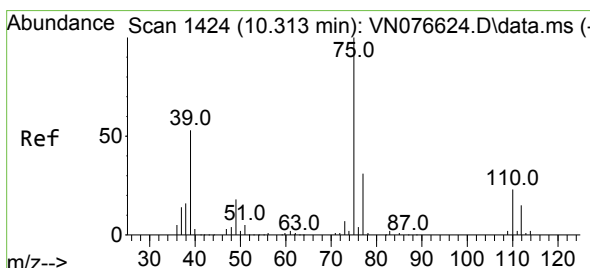
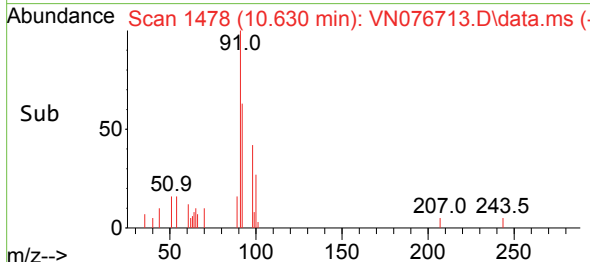
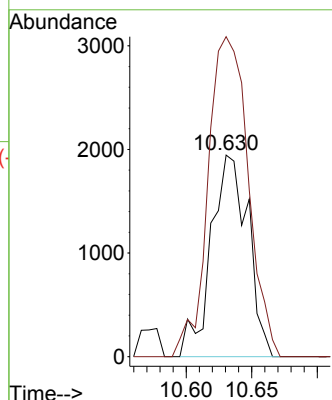
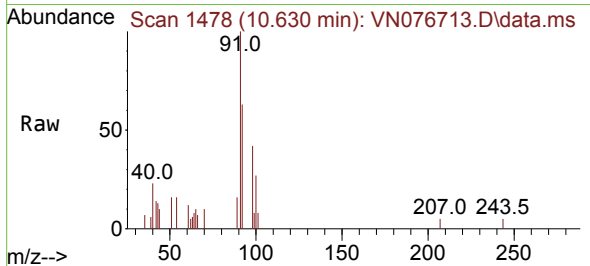




#52
Toluene
Concen: 0.368 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

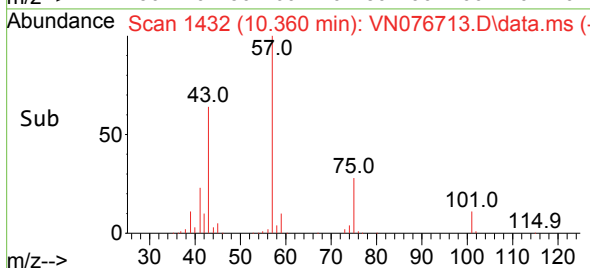
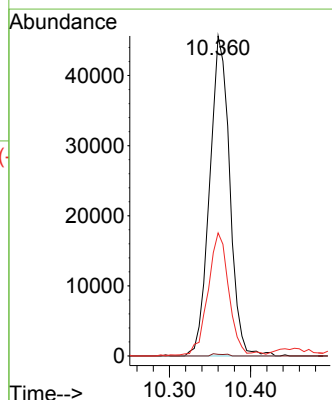
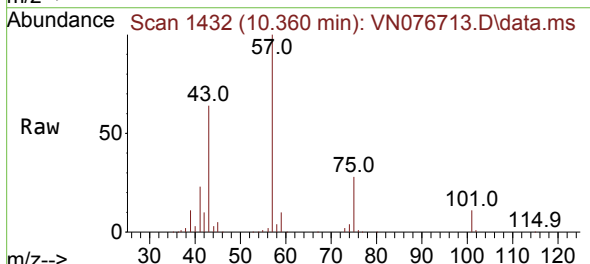
Instrument :
MSVOA_N
ClientSampleId :

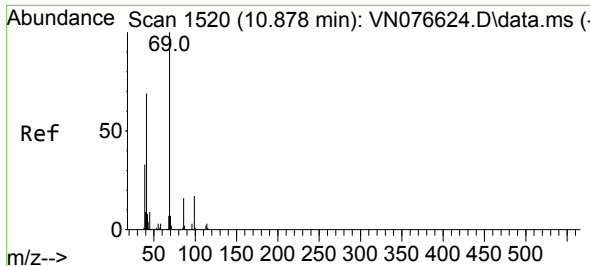
Tgt Ion: 92 Resp: 3815
Ion Ratio Lower Upper
92 100
91 172.6 138.0 207.0



#54
cis-1,3-Dichloropropene
Concen: 12.102 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

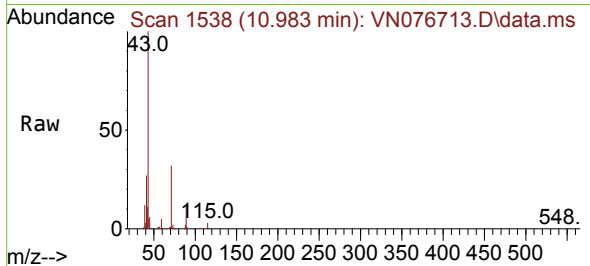
Tgt Ion: 75 Resp: 78423
Ion Ratio Lower Upper
75 100
77 0.5 25.1 37.7#
39 38.1 42.3 63.5#



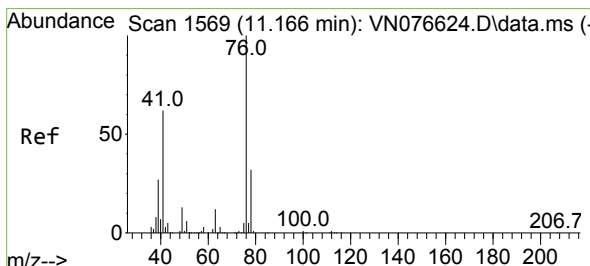
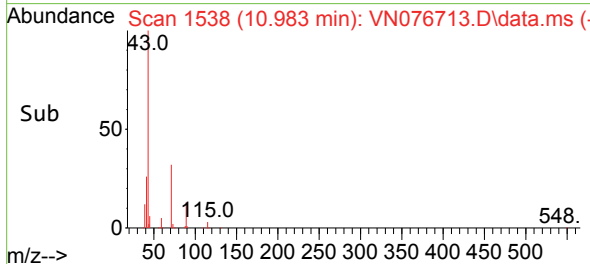
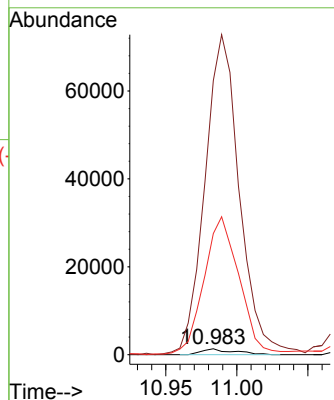


#56
Ethyl methacrylate
Concen: 0.357 ug/l
RT: 10.983 min Scan# 1538
Delta R.T. 0.105 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

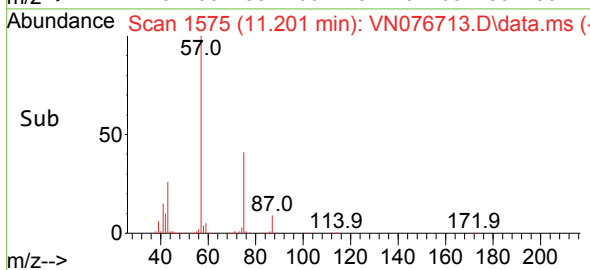
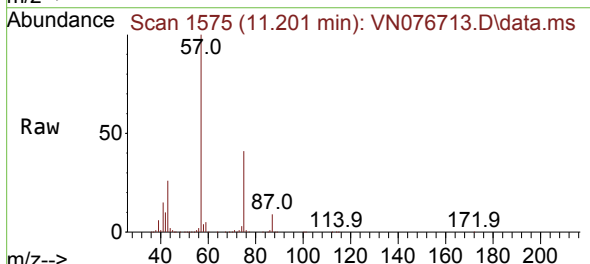
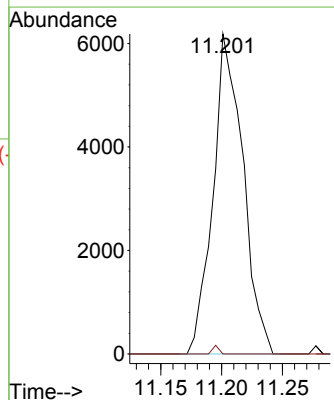


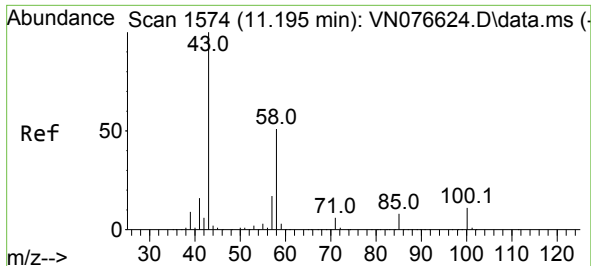
Tgt Ion: 69 Resp: 2114
Ion Ratio Lower Upper
69 100
41 5855.6 55.1 82.7#
39 2578.8 30.7 46.1#



#57
1,3-Dichloropropane
Concen: 1.463 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion: 76 Resp: 10582
Ion Ratio Lower Upper
76 100
78 0.6 26.1 39.1#

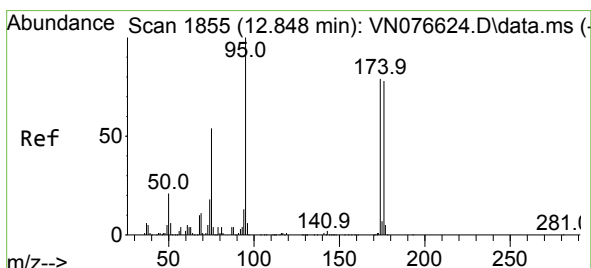
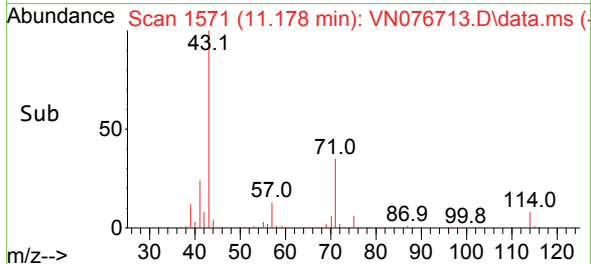
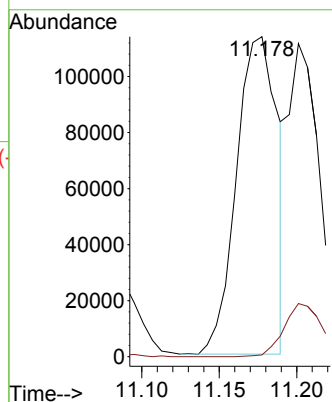
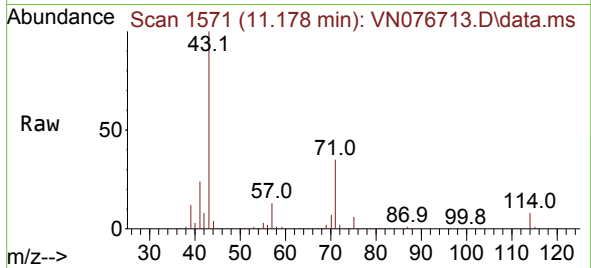




#59
2-Hexanone
Concen: 47.502 ug/l
RT: 11.178 min Scan# 1571
Delta R.T. -0.017 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

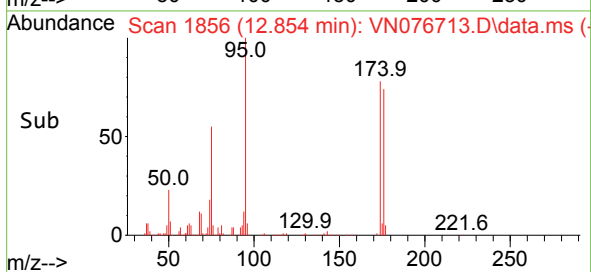
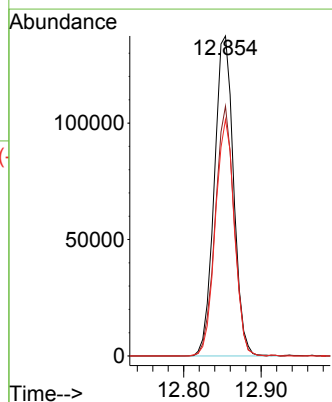
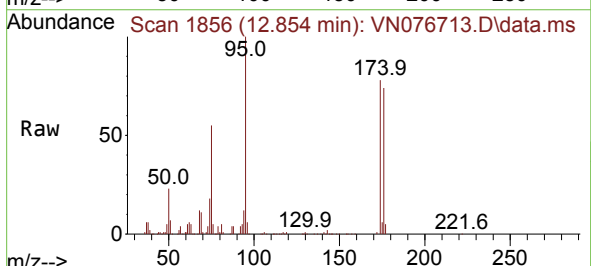
Instrument :
MSVOA_N
ClientSampleId :

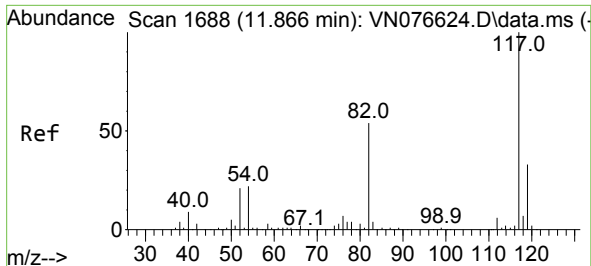
Tgt Ion: 43 Resp: 208408
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.0#



#62
4-Bromofluorobenzene
Concen: 49.638 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

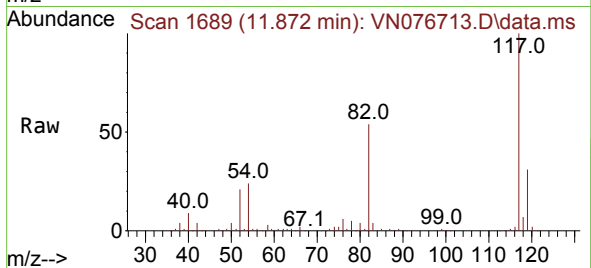
Tgt Ion: 95 Resp: 237376
Ion Ratio Lower Upper
95 100
174 76.4 0.0 169.2
176 73.0 0.0 163.4



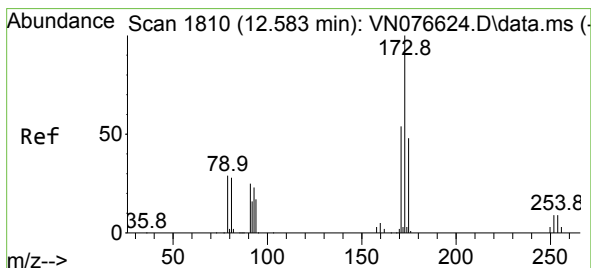
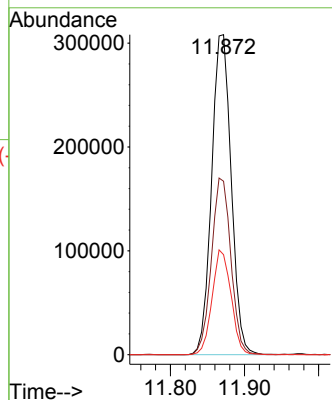
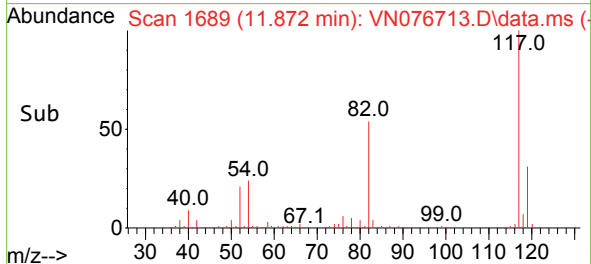


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Instrument :
MSVOA_N
ClientSampleId :

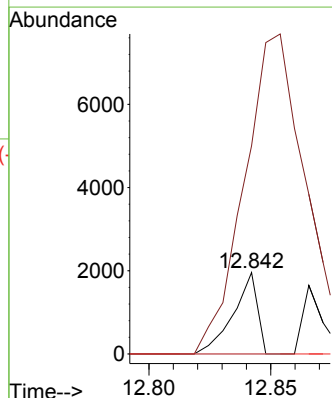
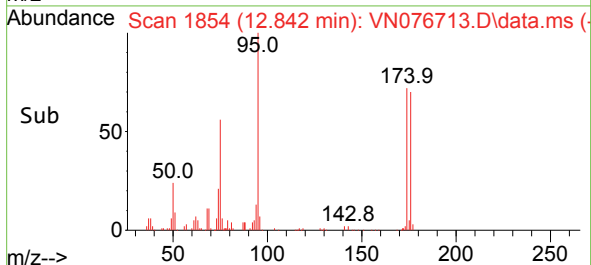
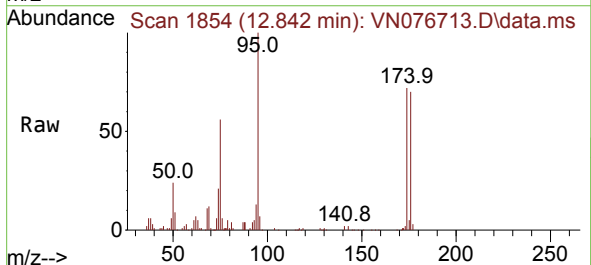


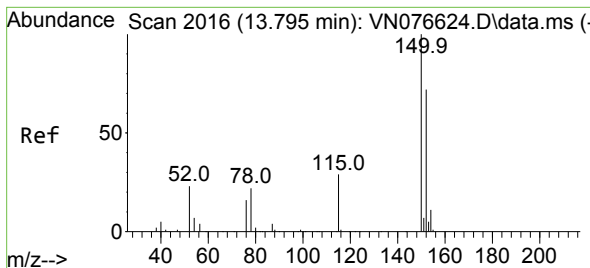
Tgt Ion:117 Resp: 565712
Ion Ratio Lower Upper
117 100
82 54.2 43.4 65.2
119 31.2 26.1 39.1



#71
Bromoform
Concen: 0.422 ug/l
RT: 12.842 min Scan# 1854
Delta R.T. 0.259 min
Lab File: VN076713.D
Acq: 16 Feb 2023 15:51

Tgt Ion:173 Resp: 1347
Ion Ratio Lower Upper
173 100
175 807.4 24.9 74.7#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

ClientSampleId :

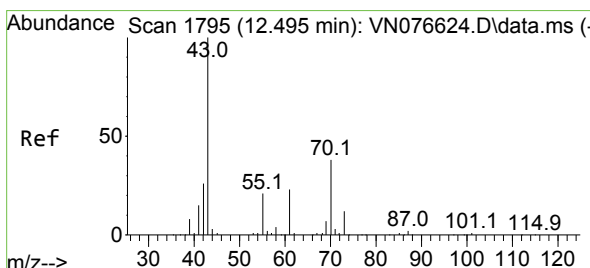
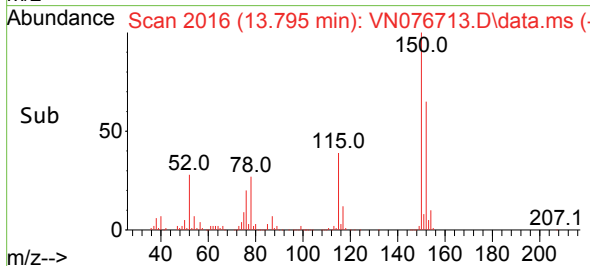
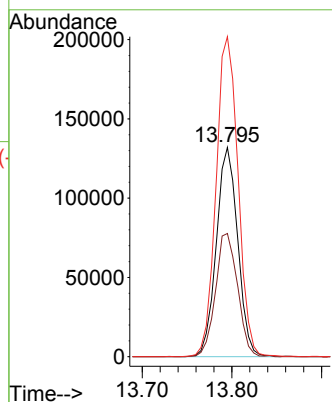
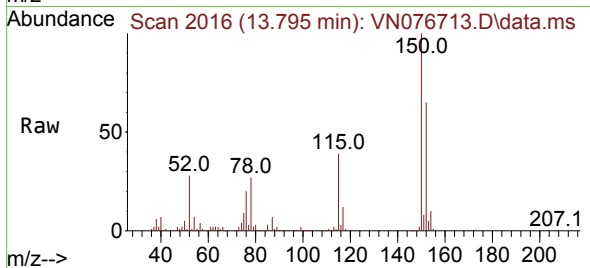
Tgt Ion:152 Resp: 218600

Ion Ratio Lower Upper

152 100

115 60.7 29.3 87.9

150 156.9 0.0 349.8



#74

N-ethyl acetate

Concen: 0.777 ug/l

RT: 12.460 min Scan# 1789

Delta R.T. -0.035 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Tgt Ion: 43 Resp: 5609

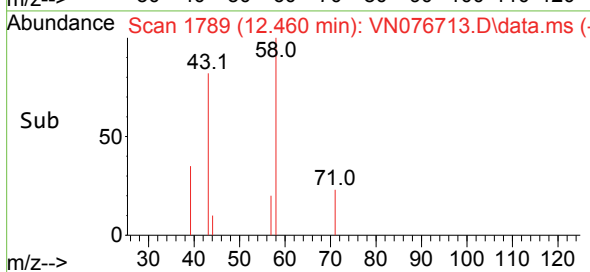
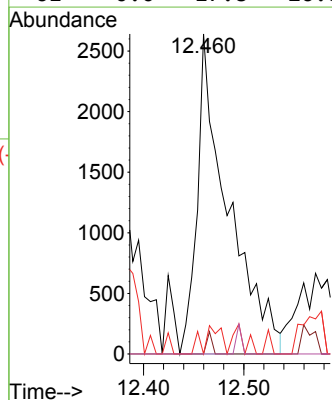
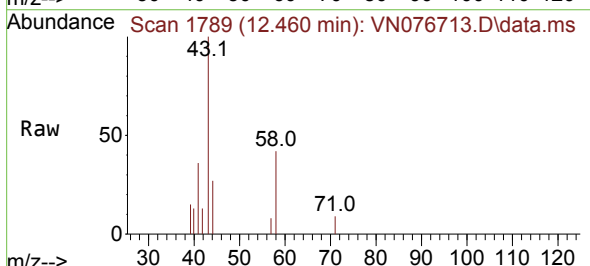
Ion Ratio Lower Upper

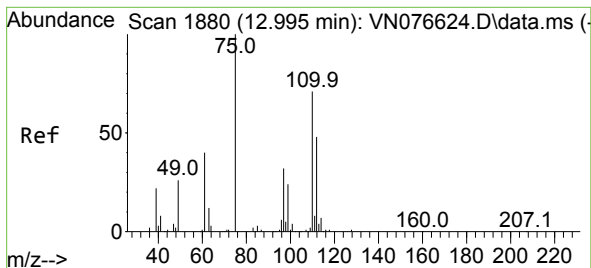
43 100

70 0.0 30.5 45.7#

55 5.1 17.8 26.8#

61 0.0 17.8 26.8#





#76

1,2,3-Trichloropropane

Concen: 29.186 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

Instrument :

MSVOA_N

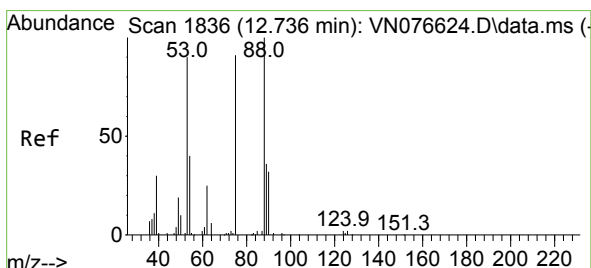
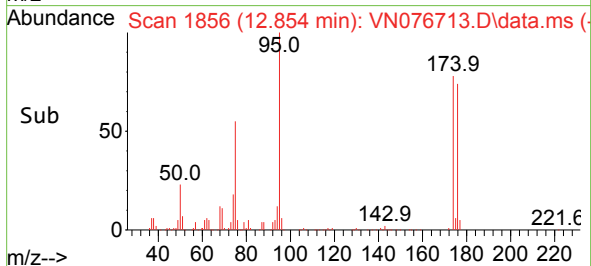
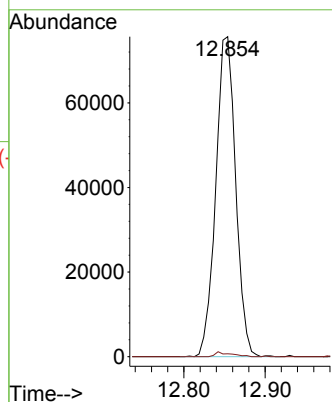
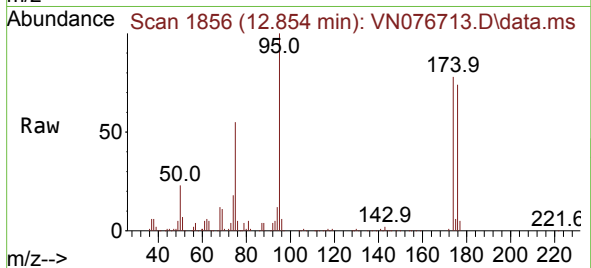
ClientSampleId :

Tgt Ion: 75 Resp: 128988

Ion Ratio Lower Upper

75 100

77 1.2 93.1 279.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.007 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN076713.D

Acq: 16 Feb 2023 15:51

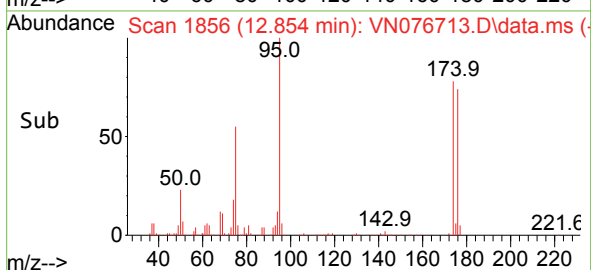
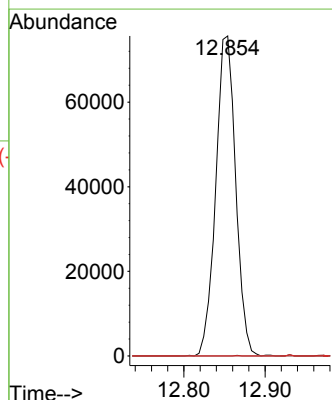
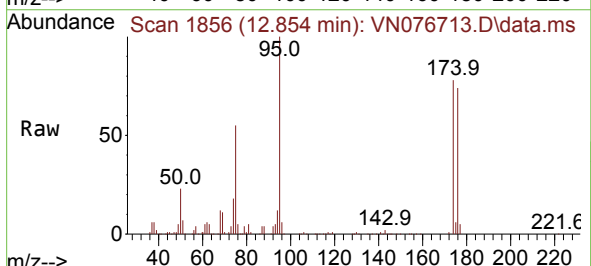
Tgt Ion: 75 Resp: 128988

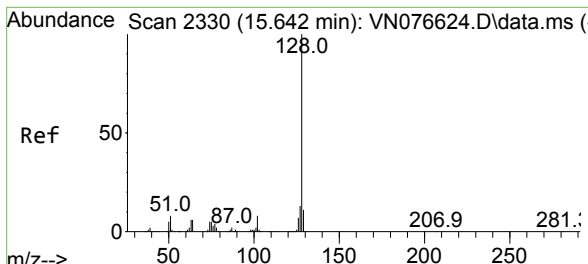
Ion Ratio Lower Upper

75 100

53 0.0 92.1 138.1#

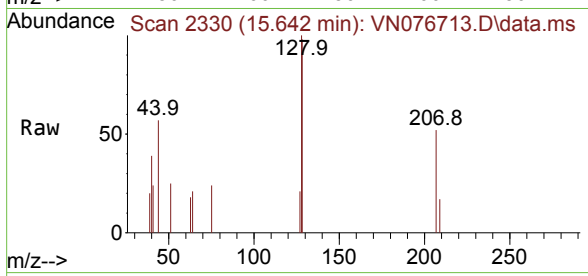
89 0.0 37.5 56.3#





#95
 Naphthalene
 Concen: 0.214 ug/l
 RT: 15.642 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN076713.D
 Acq: 16 Feb 2023 15:51

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 2511

Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.6	16.0#
129	2.6	8.6	13.0#

