

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076911.D
 Acq On : 09 Mar 2023 18:52
 Operator : JC\MD
 Sample : PB151321ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151321ZHE#04

Quant Time: Mar 10 03:50:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 07 08:45:33 2023
 Response via : Initial Calibration

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

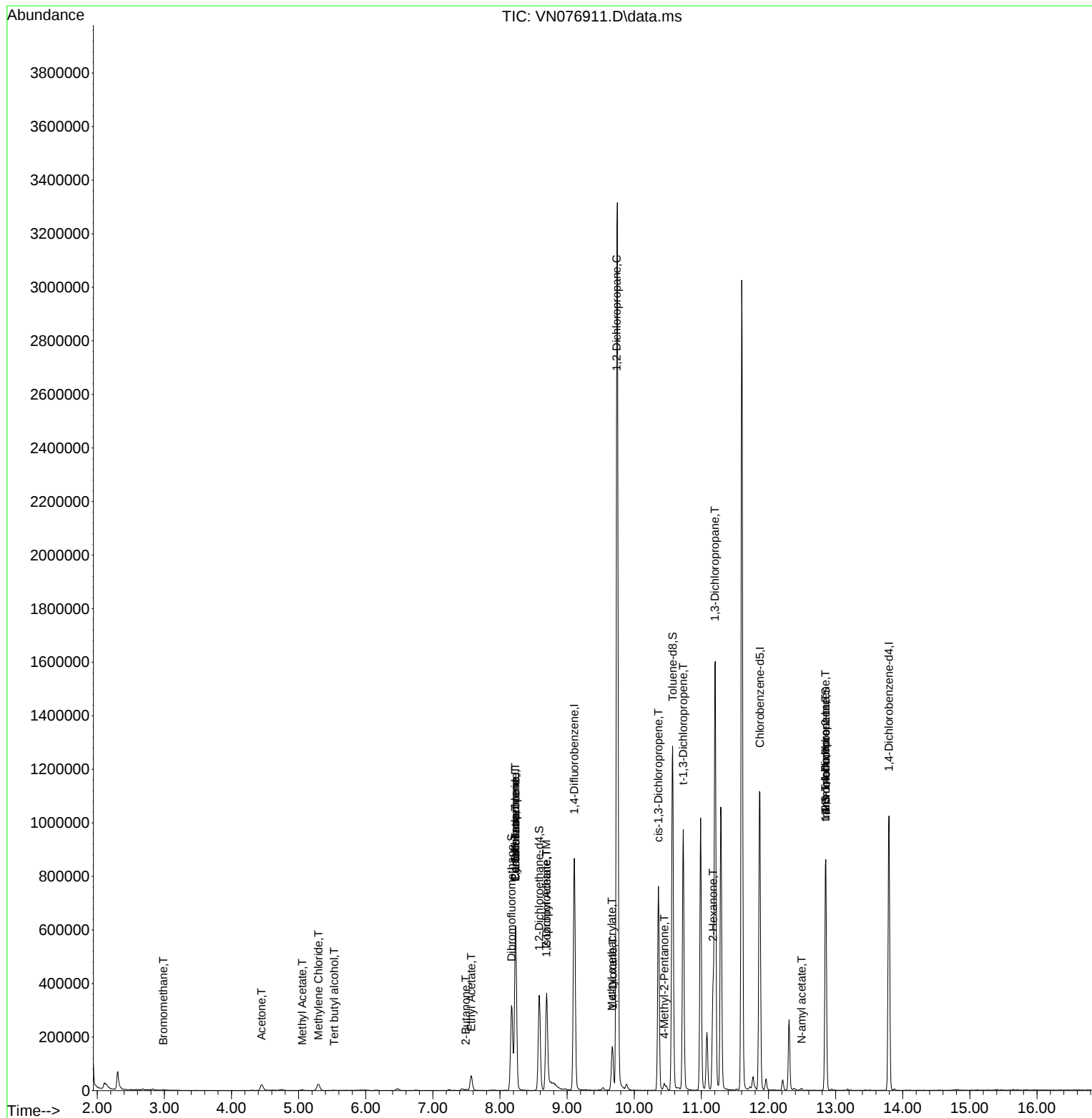
Internal Standards						
1) Pentafluorobenzene	8.230	168	428795	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	744523	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	659543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	274578	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	301282	50.115	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.220%			
35) Dibromofluoromethane	8.172	113	228090	48.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.940%			
50) Toluene-d8	10.571	98	893544	49.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.600%			
62) 4-Bromofluorobenzene	12.854	95	316104	50.838	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.680%			
Target Compounds						Qvalue
5) Bromomethane	2.984	94	847	0.214	ug/l #	72
6) Chloroethane	3.137	64	233	Below Cal	#	42
11) Tert butyl alcohol	5.531	59	1309	1.466	ug/l #	72
16) Acetone	4.448	43	44181	16.836	ug/l #	85
18) Methyl Acetate	5.054	43	4756	0.529	ug/l #	62
20) Methylene Chloride	5.295	84	19426	3.173	ug/l #	78
25) 2-Butanone	7.489	43	6940	1.810	ug/l #	65
31) Cyclohexane	8.230	56	9829	0.968	ug/l #	15
36) 1,1-Dichloropropene	8.230	75	36647	4.896	ug/l #	49
37) Ethyl Acetate	7.572	43	80859	10.523	ug/l	97
38) Carbon Tetrachloride	8.230	117	49367	6.492	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	2427	0.306	ug/l #	71
43) Isopropyl Acetate	8.695	43	432060	36.730	ug/l #	79
45) 1,2-Dichloropropane	9.736	63	4738	0.804	ug/l #	43
48) Methyl methacrylate	9.666	41	9261	1.620	ug/l #	32
49) 1,4-Dioxane	9.683	88	93	0.888	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	16137	2.175	ug/l	91
53) t-1,3-Dichloropropene	10.730	75	2864	0.384	ug/l #	77
54) cis-1,3-Dichloropropene	10.360	75	140511	16.401	ug/l #	65
57) 1,3-Dichloropropane	11.201	76	17270	1.842	ug/l #	42
59) 2-Hexanone	11.171	43	311441	57.927	ug/l #	17
71) Bromoform	12.854	173	1338	0.381	ug/l #	1
74) N-amyl acetate	12.495	43	2972	0.318	ug/l #	39
76) 1,2,3-Trichloropropane	12.848	75	171159	24.717	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	171159	81.517	ug/l #	15

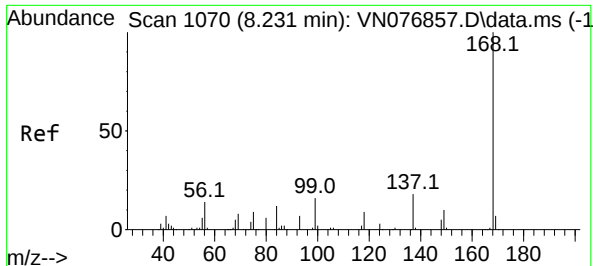
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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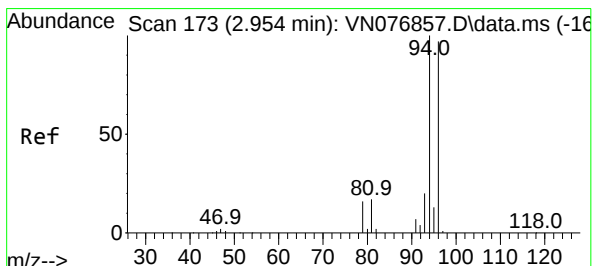
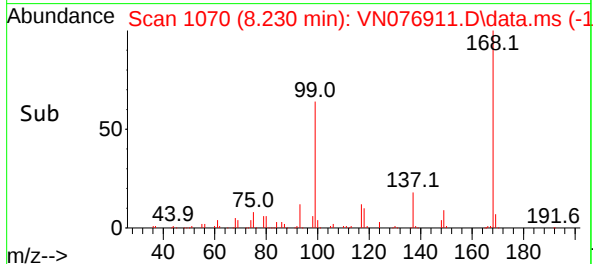
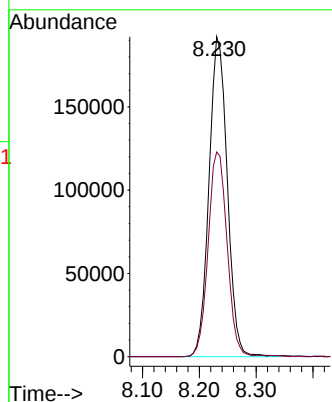
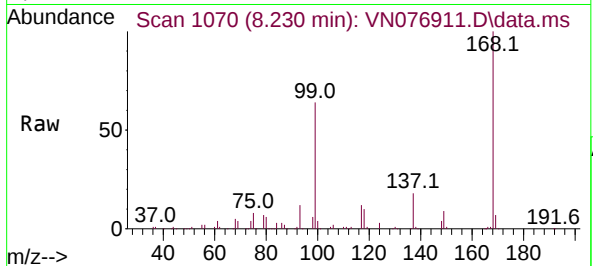




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.001 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

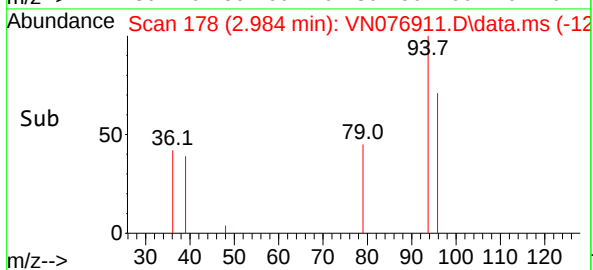
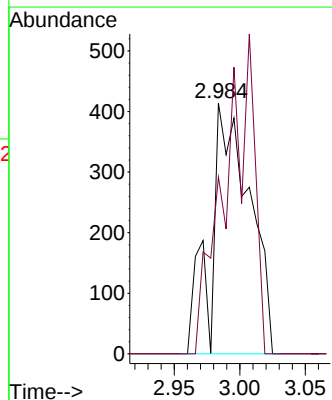
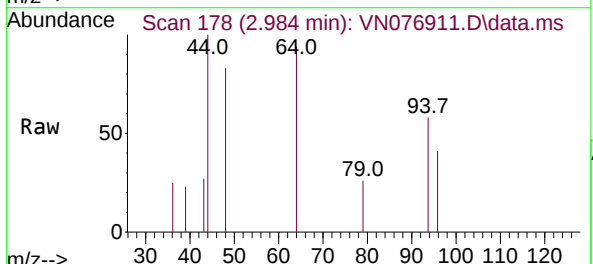
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

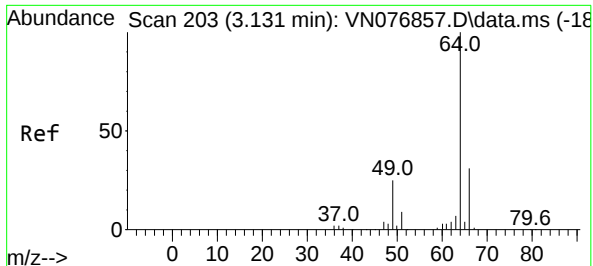
Tgt Ion:168 Resp: 428795
Ion Ratio Lower Upper
168 100
99 63.9 48.6 73.0



#5
Bromomethane
Concen: 0.214 ug/l
RT: 2.984 min Scan# 178
Delta R.T. 0.030 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 94 Resp: 847
Ion Ratio Lower Upper
94 100
96 70.5 79.0 118.6#

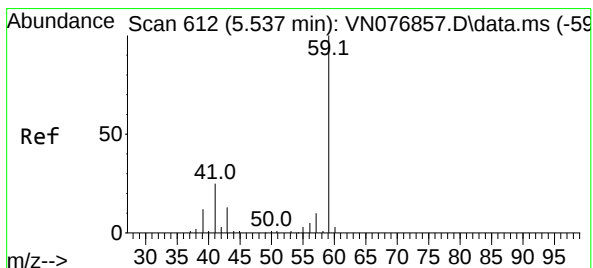
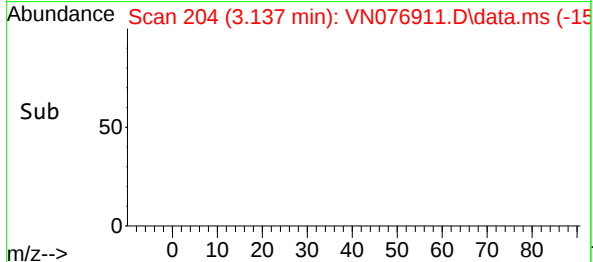
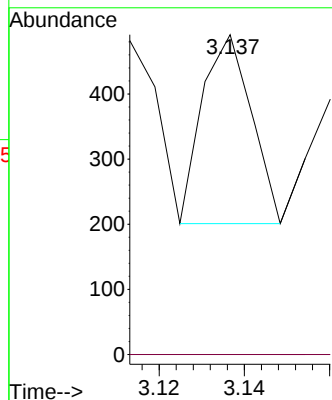
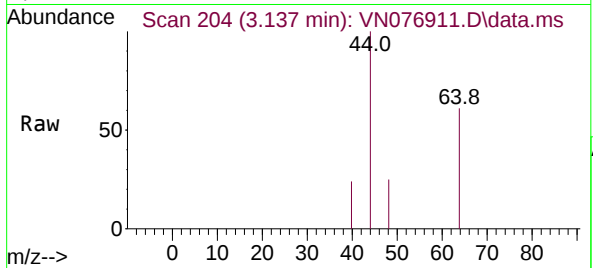




#6
Chloroethane
Concen: Below Cal
RT: 3.137 min Scan# 203
Delta R.T. 0.006 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

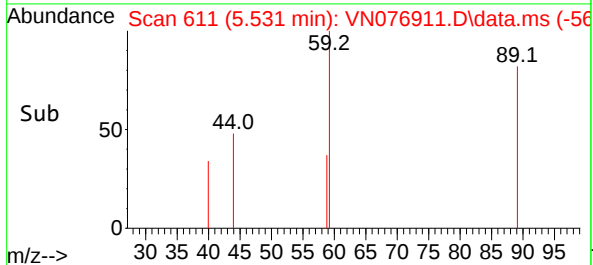
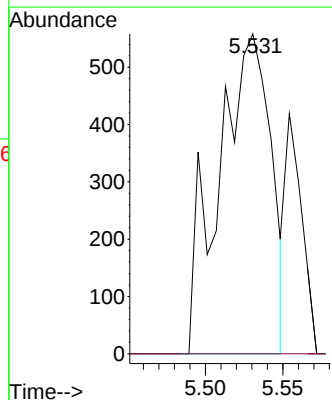
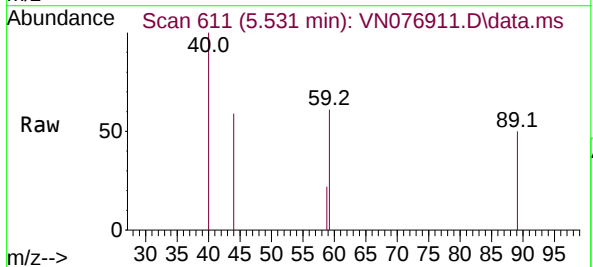
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

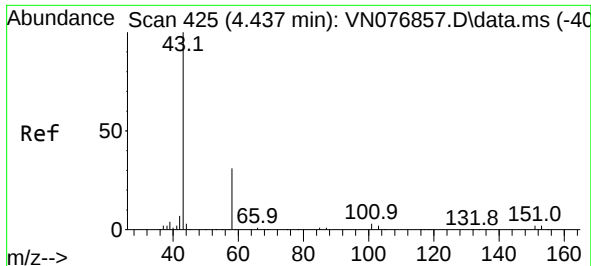
Tgt Ion: 64 Resp: 233
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 1.466 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 59 Resp: 1309
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

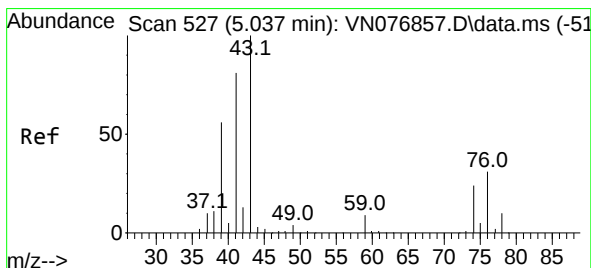
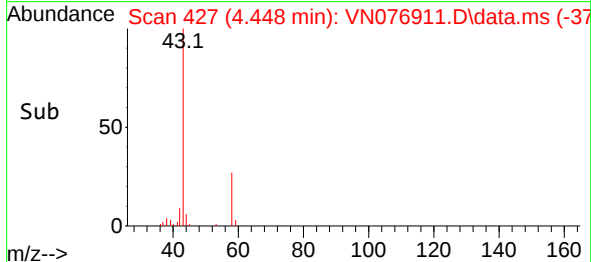
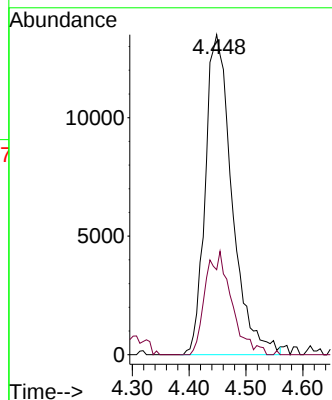
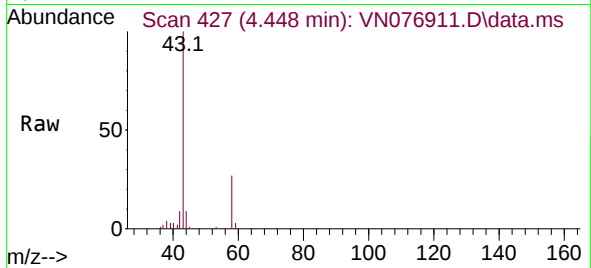




#16
Acetone
Concen: 16.836 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

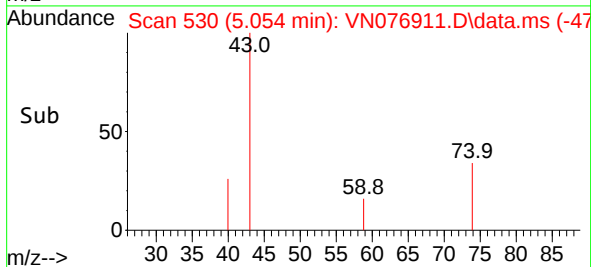
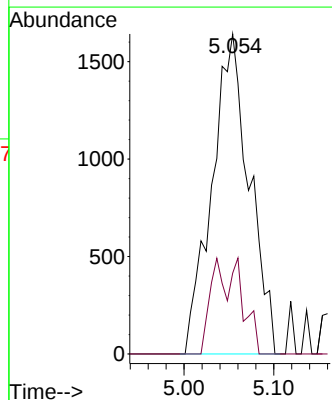
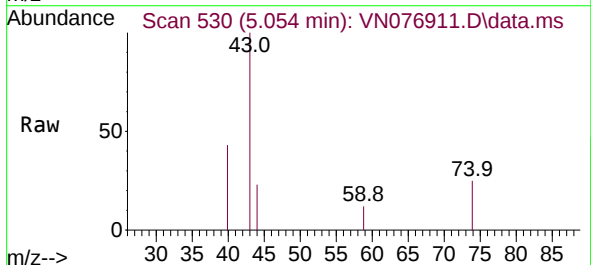
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

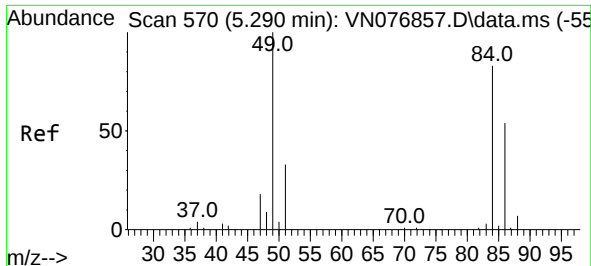
Tgt Ion: 43 Resp: 44181
Ion Ratio Lower Upper
43 100
58 26.6 28.2 42.2#



#18
Methyl Acetate
Concen: 0.529 ug/l
RT: 5.054 min Scan# 530
Delta R.T. 0.017 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 43 Resp: 4756
Ion Ratio Lower Upper
43 100
74 11.1 25.9 38.9#

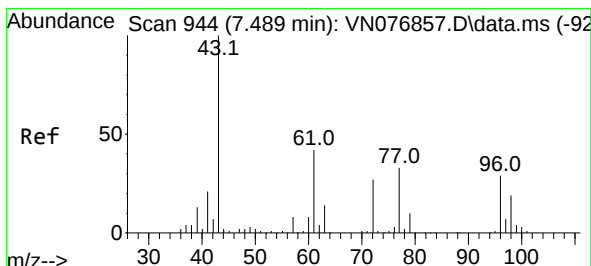
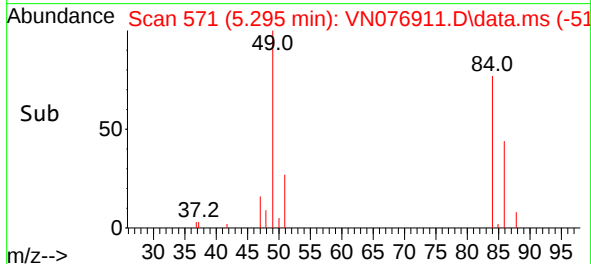
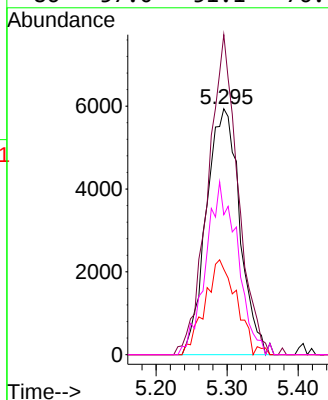
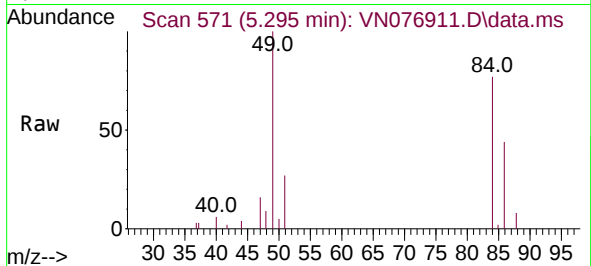




#20
Methylene Chloride
Concen: 3.173 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

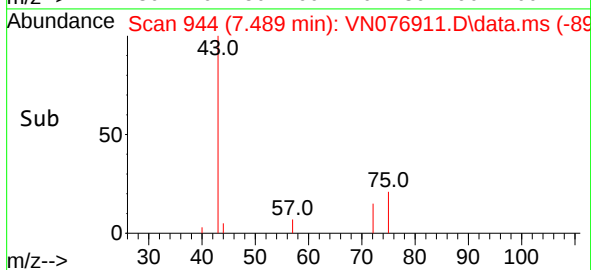
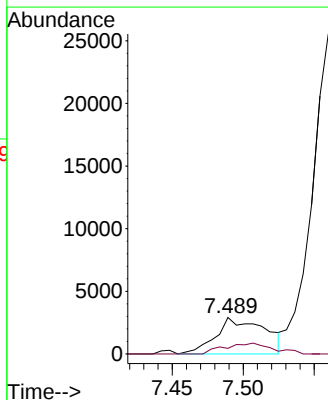
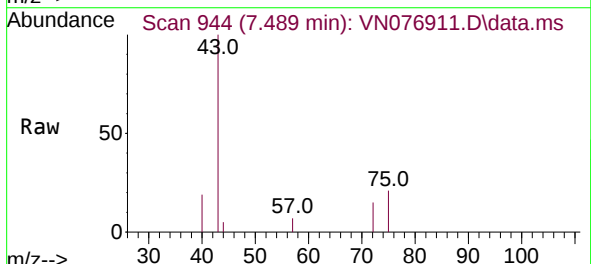
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

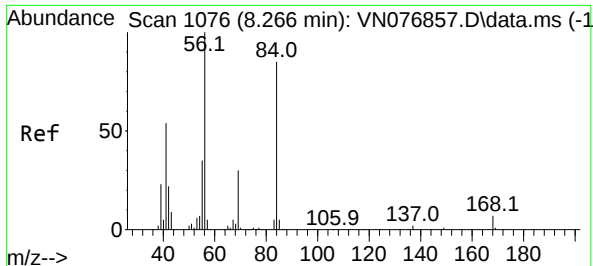
Tgt Ion: 84	Resp: 19426
Ion Ratio	Lower Upper
84 100	
49 130.2	76.6 114.8#
51 34.8	25.4 38.2
86 57.0	51.1 76.7



#25
2-Butanone
Concen: 1.810 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

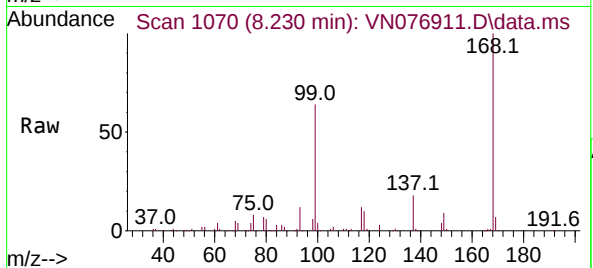
Tgt Ion: 43	Resp: 6940		
Ion Ratio	Lower	Upper	
43 100			
72 15.2	28.8	43.2#	



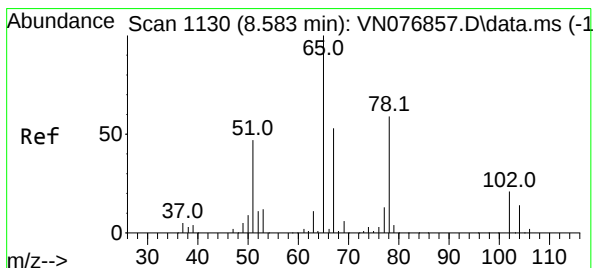
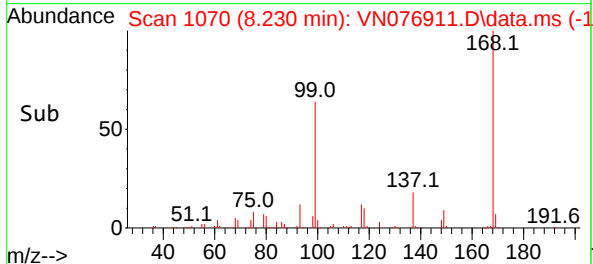
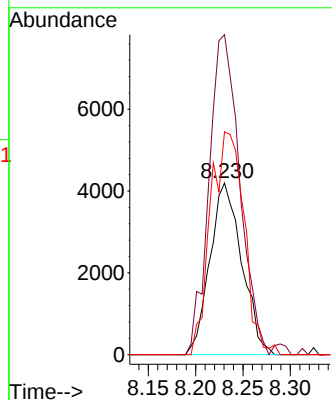


#31
Cyclohexane
Concen: 0.968 ug/l
RT: 8.230 min Scan# 1076
Delta R.T. -0.036 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

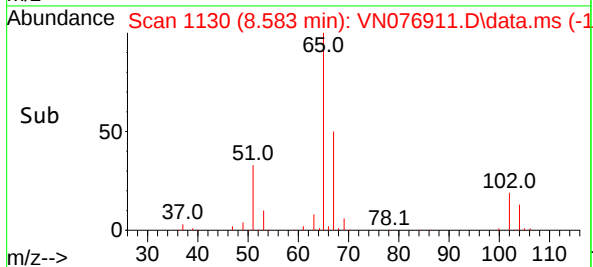
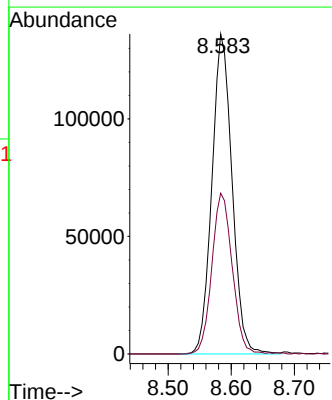
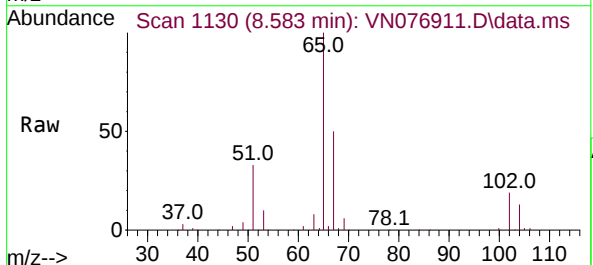


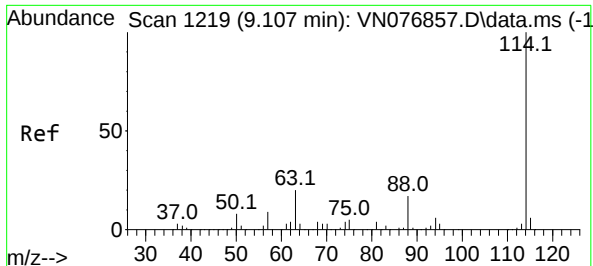
Tgt Ion: 56 Resp: 9829
Ion Ratio Lower Upper
56 100
69 186.4 27.0 40.6#
84 129.8 82.9 124.3#



#33
1,2-Dichloroethane-d4
Concen: 50.115 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 65 Resp: 301282
Ion Ratio Lower Upper
65 100
67 50.7 0.0 107.2

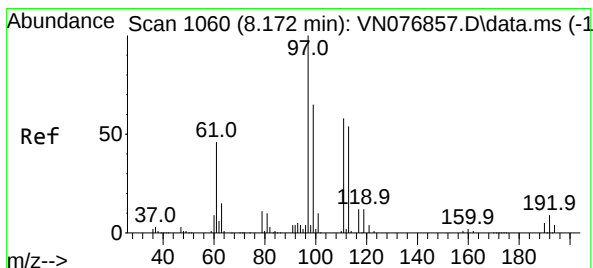
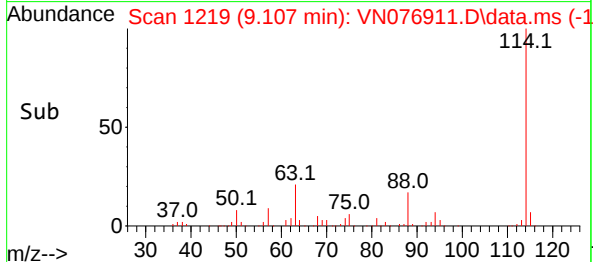
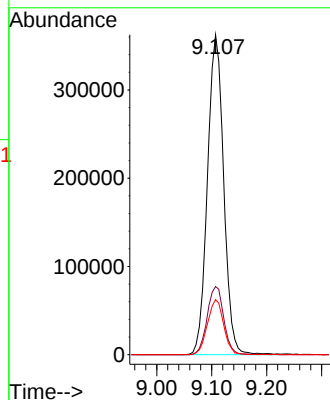
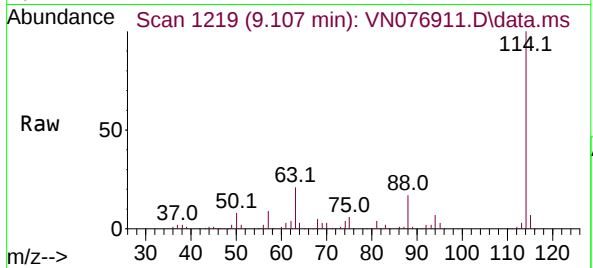




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

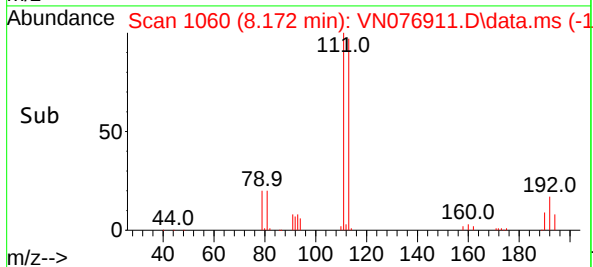
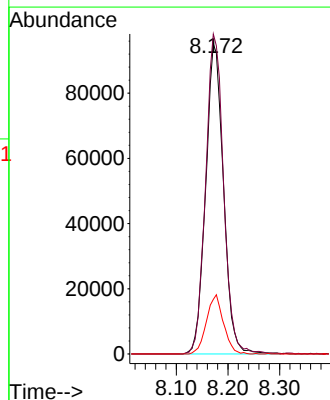
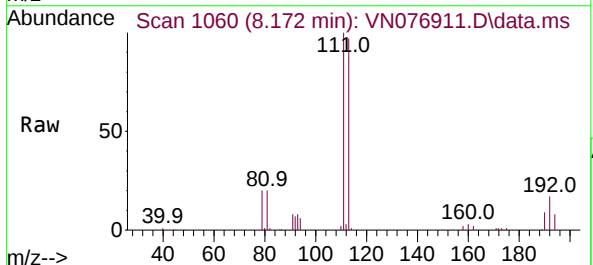
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ClientSampleId :
PB151321ZHE#04

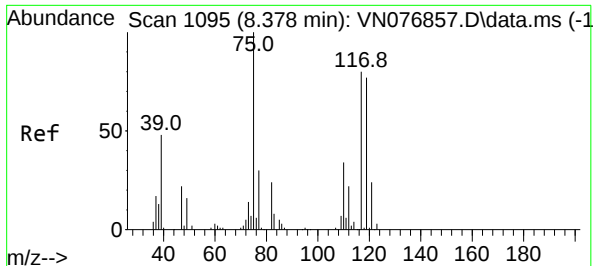
Tgt Ion:114 Resp: 744523
Ion Ratio Lower Upper
114 100
63 21.3 0.0 36.6
88 17.2 0.0 28.6



#35
Dibromofluoromethane
Concen: 48.972 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion:113 Resp: 228090
Ion Ratio Lower Upper
113 100
111 104.0 81.8 122.8
192 18.2 13.9 20.9





#36

1,1-Dichloropropene

Concen: 4.896 ug/l

RT: 8.230 min Scan# 1095

Delta R.T. -0.148 min

Lab File: VN076911.D

Acq: 09 Mar 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

PB151321ZHE#04

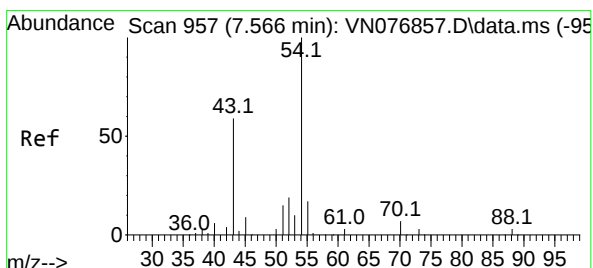
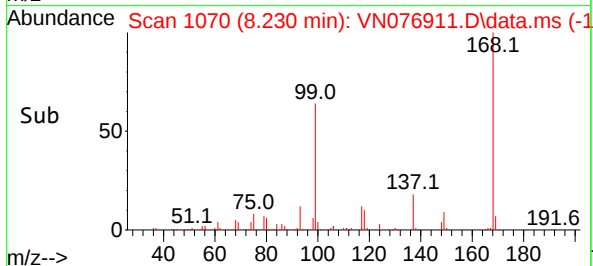
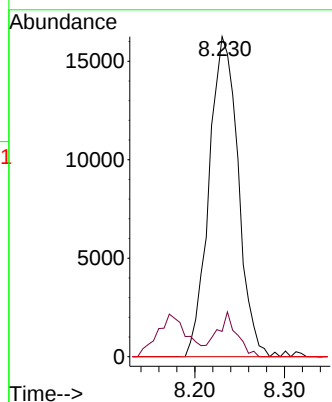
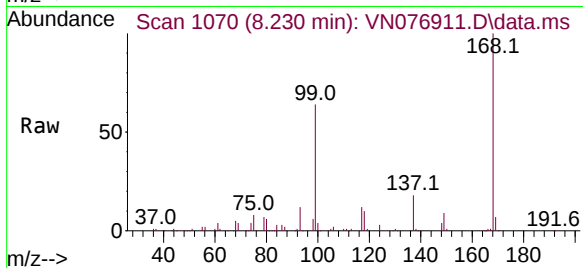
Tgt Ion: 75 Resp: 36647

Ion Ratio Lower Upper

75 100

110 9.7 18.9 56.9#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 10.523 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN076911.D

Acq: 09 Mar 2023 18:52

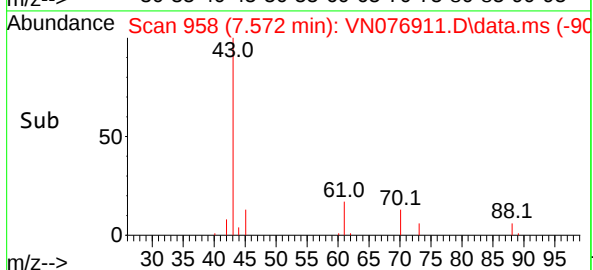
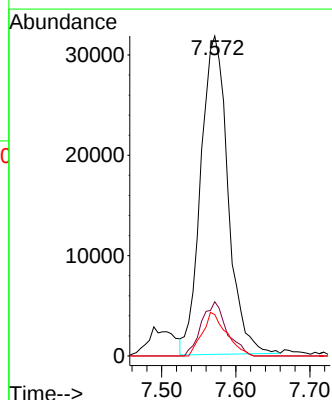
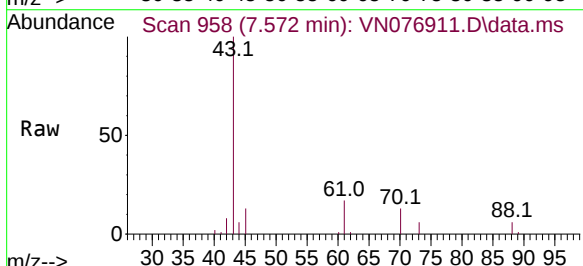
Tgt Ion: 43 Resp: 80859

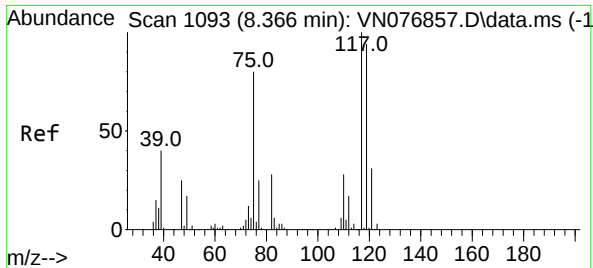
Ion Ratio Lower Upper

43 100

61 15.8 13.5 20.3

70 12.1 11.0 16.6

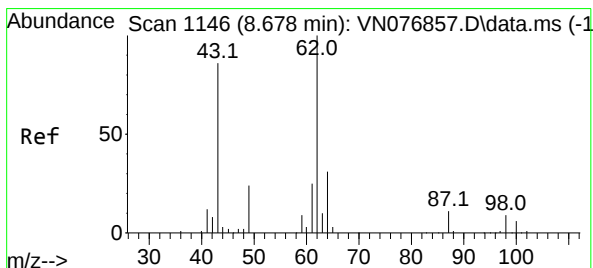
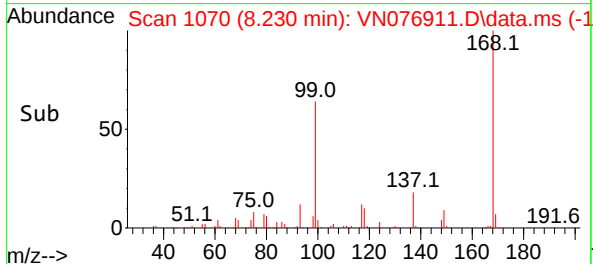
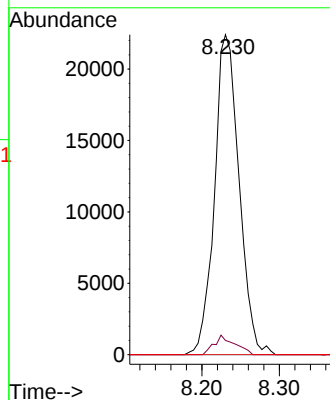
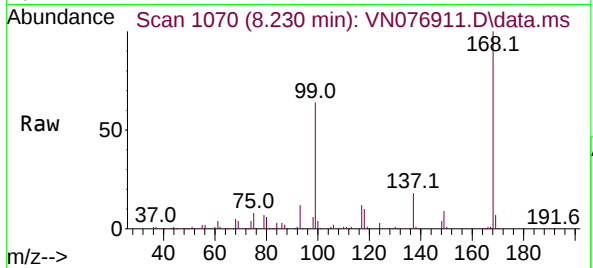




#38
Carbon Tetrachloride
Concen: 6.492 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.136 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

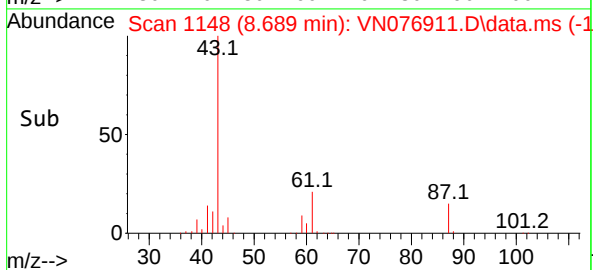
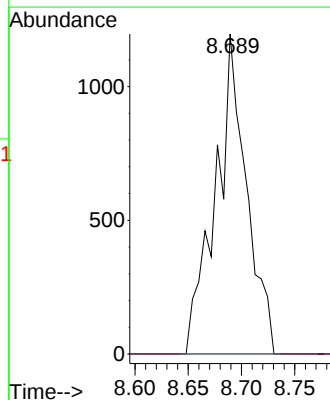
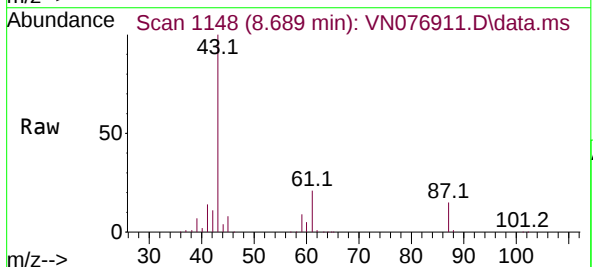
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

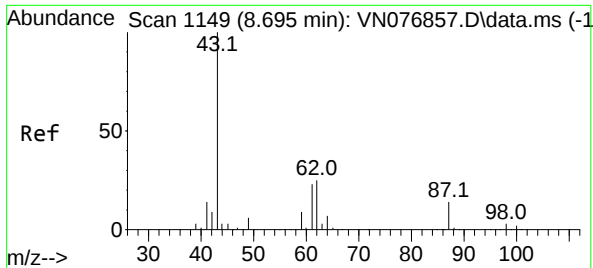
Tgt Ion:117 Resp: 49367
Ion Ratio Lower Upper
117 100
119 4.5 76.9 115.3#
121 0.0 23.2 34.8#



#42
1,2-Dichloroethane
Concen: 0.306 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. 0.011 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 62 Resp: 2427
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8

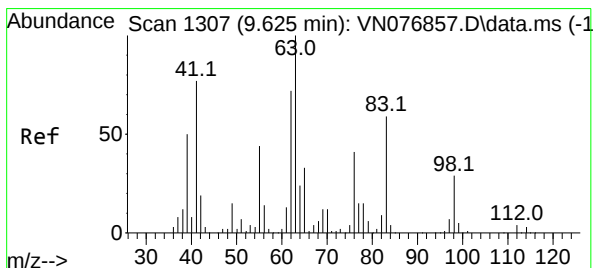
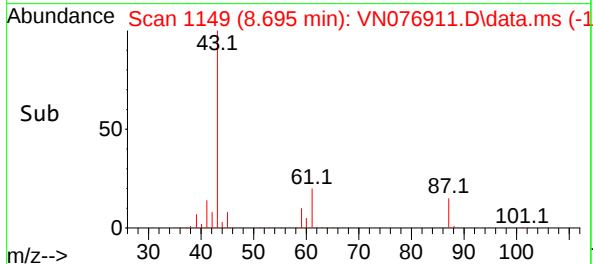
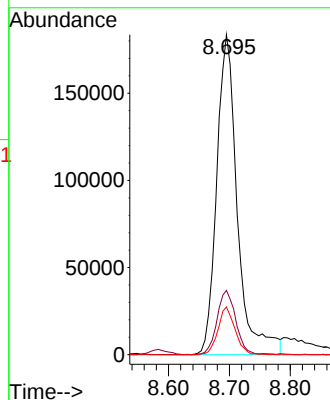
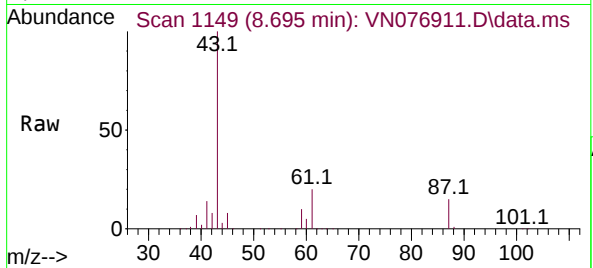




#43
Isopropyl Acetate
Concen: 36.730 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

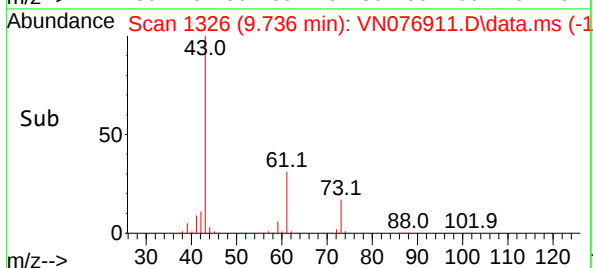
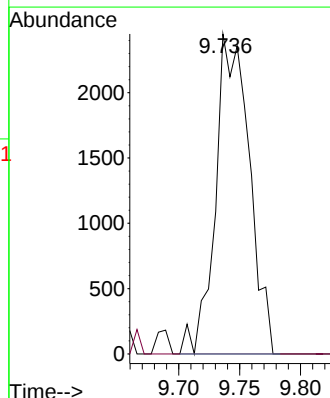
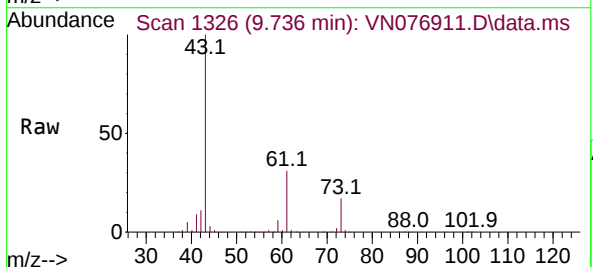
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

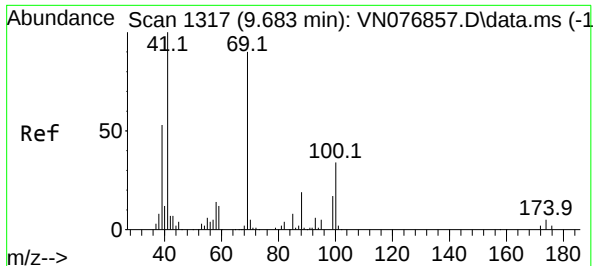
Tgt Ion: 43 Resp: 432060
Ion Ratio Lower Upper
43 100
61 18.2 26.2 39.2#
87 12.3 14.8 22.2#



#45
1,2-Dichloropropane
Concen: 0.804 ug/l
RT: 9.736 min Scan# 1326
Delta R.T. 0.111 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 63 Resp: 4738
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.6#

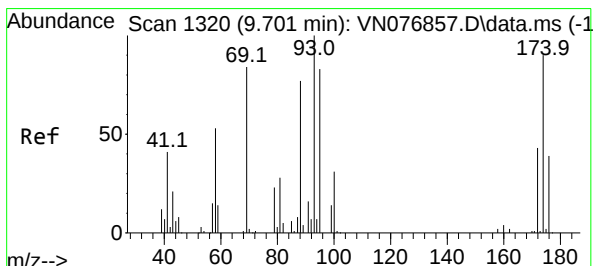
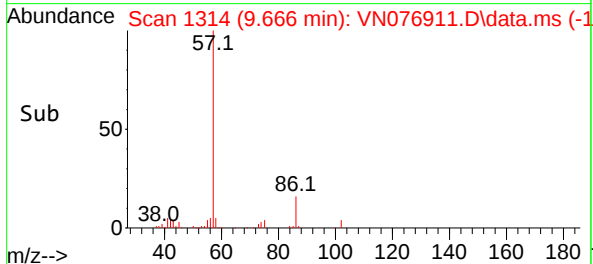
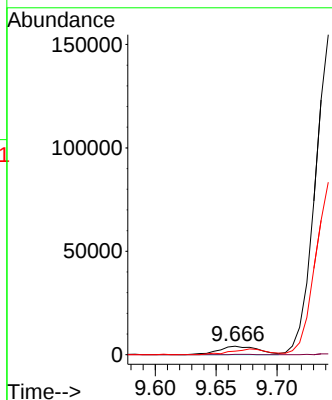
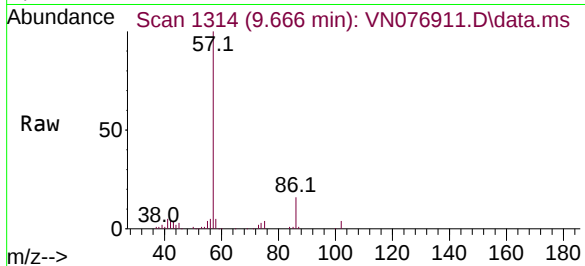




#48
Methyl methacrylate
Concen: 1.620 ug/l
RT: 9.666 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

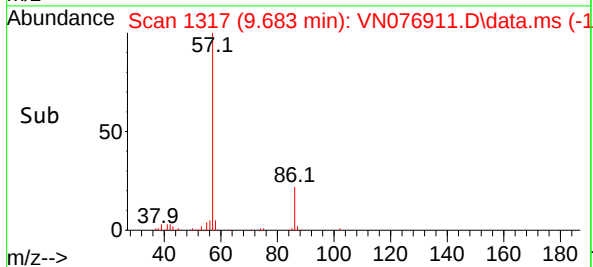
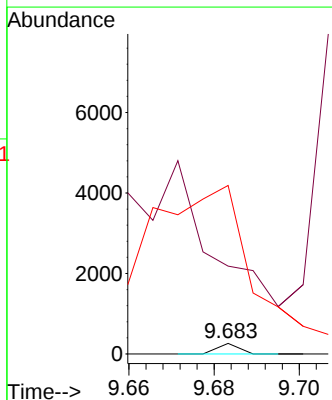
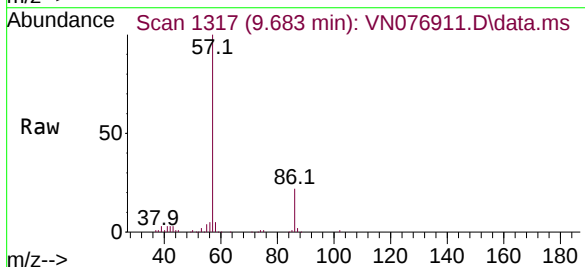
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

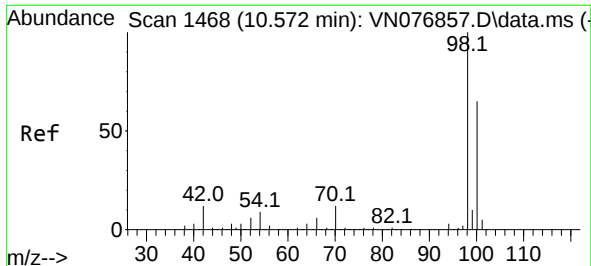
Tgt Ion: 41 Resp: 9261
Ion Ratio Lower Upper
41 100
69 1.8 92.6 139.0#
39 62.9 51.4 77.0



#49
1,4-Dioxane
Concen: 0.888 ug/l
RT: 9.683 min Scan# 1317
Delta R.T. -0.018 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 0.0 15.3 22.9#
58 9320.4 47.6 71.4#

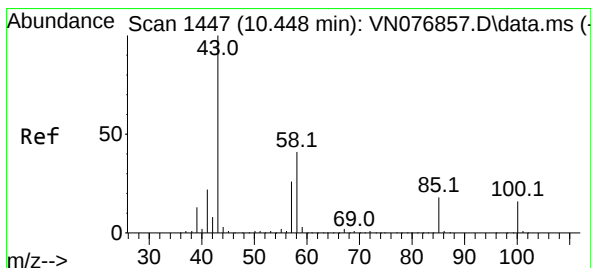
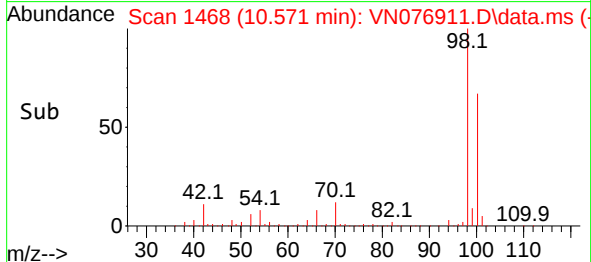
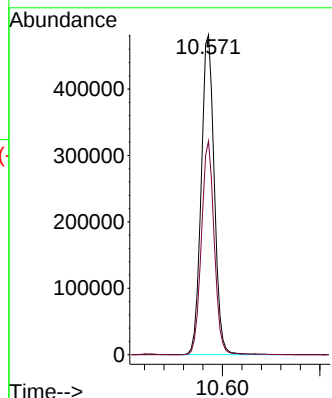
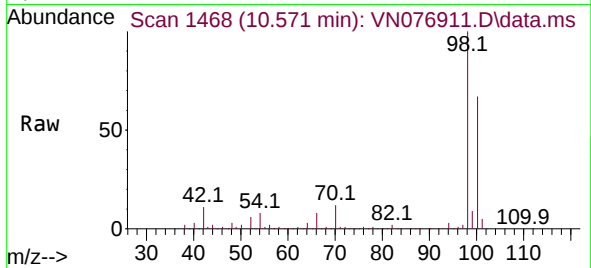




#50
Toluene-d8
Concen: 49.796 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. -0.001 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

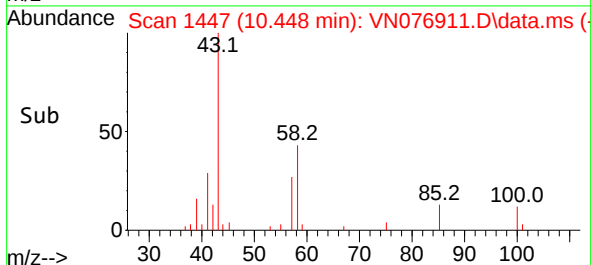
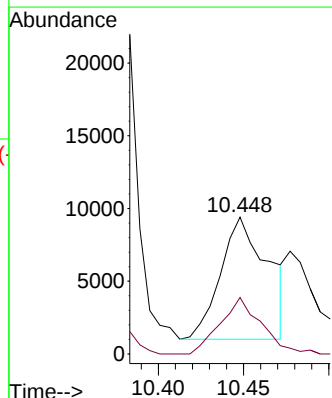
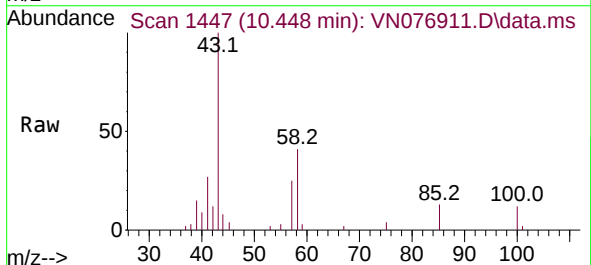
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

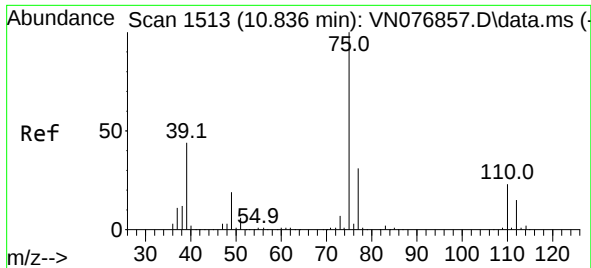
Tgt Ion: 98 Resp: 893544
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 2.175 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 43 Resp: 16137
Ion Ratio Lower Upper
43 100
58 40.5 37.4 56.0

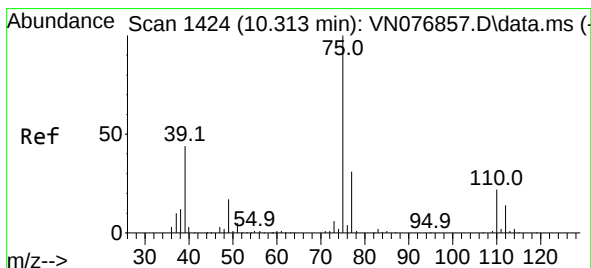
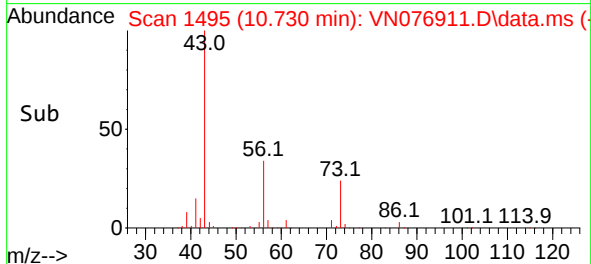
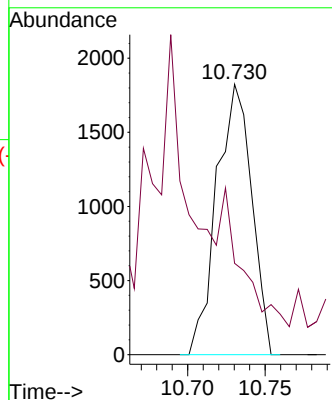
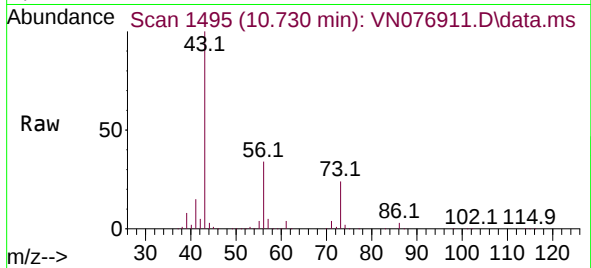




#53
t-1,3-Dichloropropene
Concen: 0.384 ug/l
RT: 10.730 min Scan# 1495
Delta R.T. -0.106 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

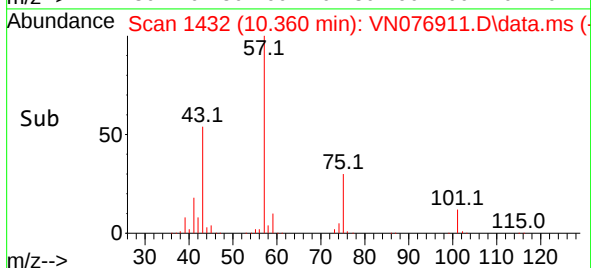
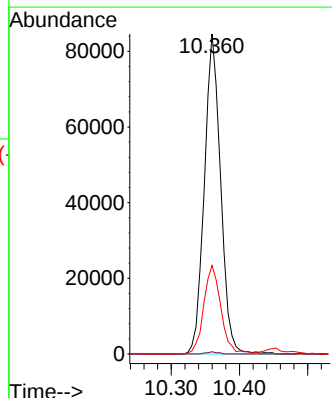
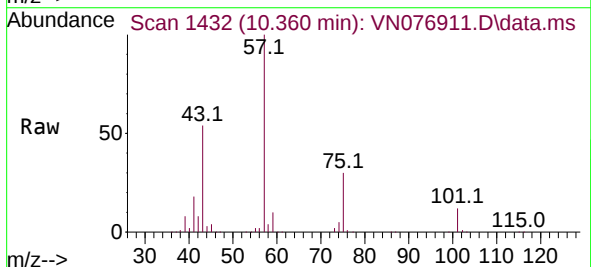
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

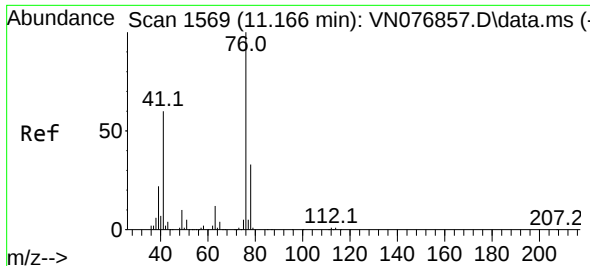
Tgt Ion: 75 Resp: 2864
Ion Ratio Lower Upper
75 100
77 18.8 25.0 37.6#



#54
cis-1,3-Dichloropropene
Concen: 16.401 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 75 Resp: 140511
Ion Ratio Lower Upper
75 100
77 0.7 25.7 38.5#
39 27.7 29.7 44.5#





#57

1,3-Dichloropropane

Concen: 1.842 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN076911.D

Acq: 09 Mar 2023 18:52

Instrument :

MSVOA_N

ClientSampleId :

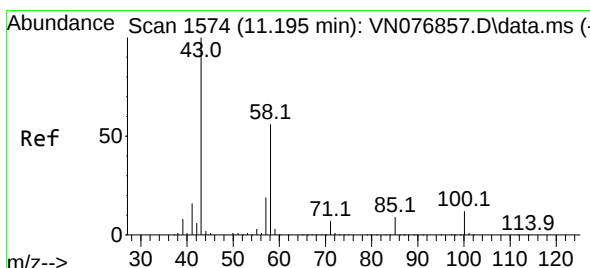
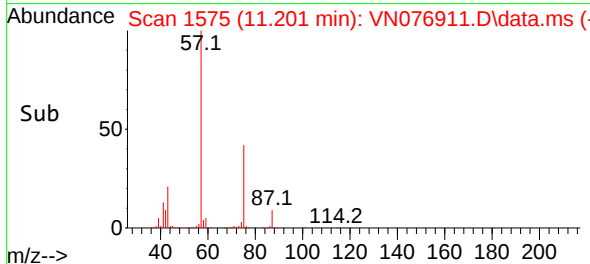
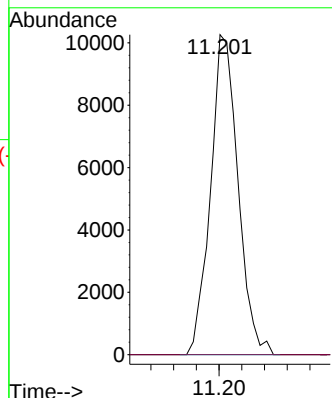
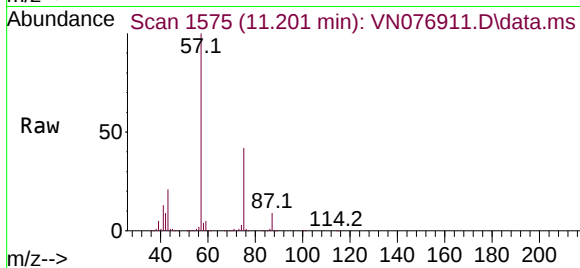
PB151321ZHE#04

Tgt Ion: 76 Resp: 17270

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 57.927 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN076911.D

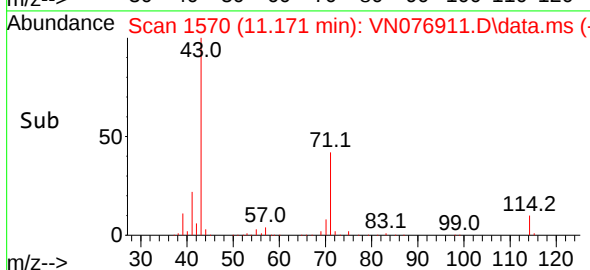
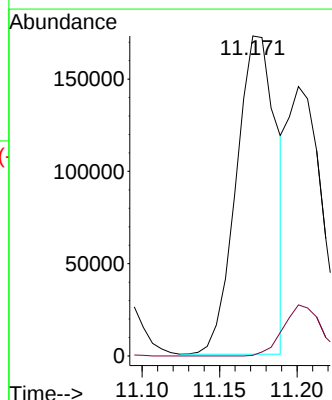
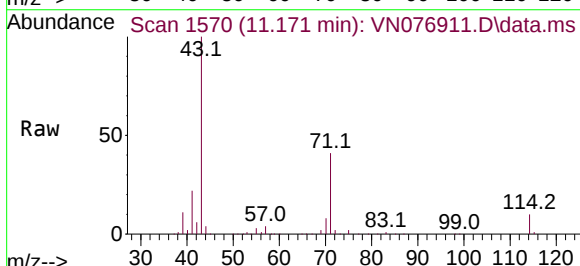
Acq: 09 Mar 2023 18:52

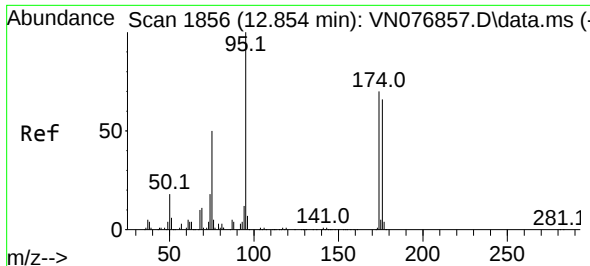
Tgt Ion: 43 Resp: 311441

Ion Ratio Lower Upper

43 100

58 0.0 32.6 98.0#

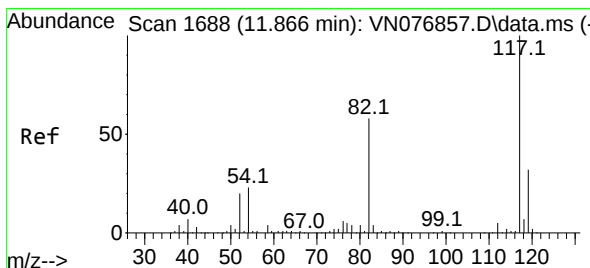
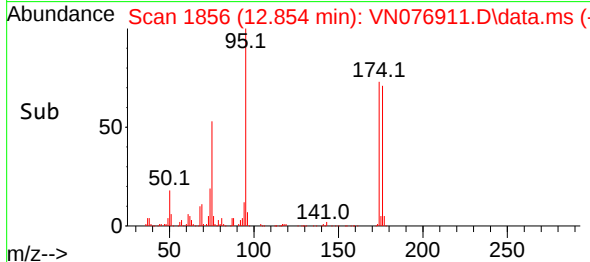
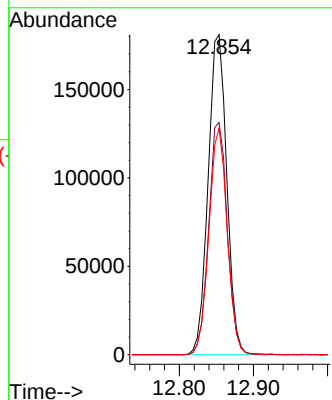
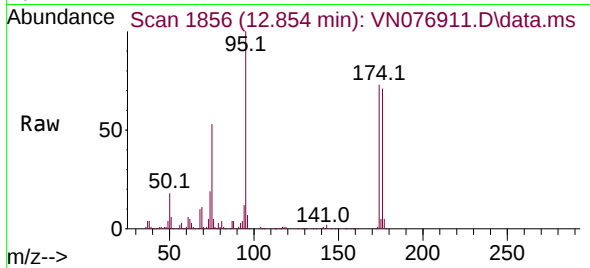




#62
4-Bromofluorobenzene
Concen: 50.838 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

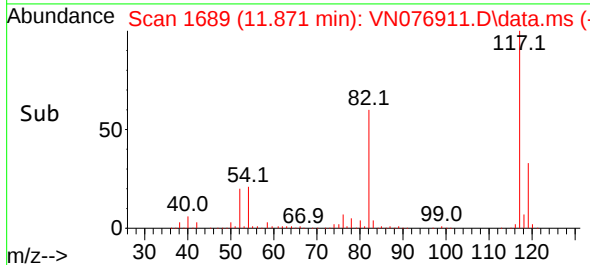
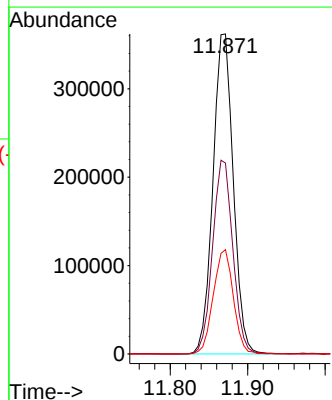
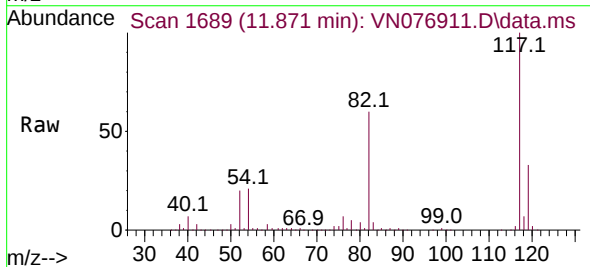
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

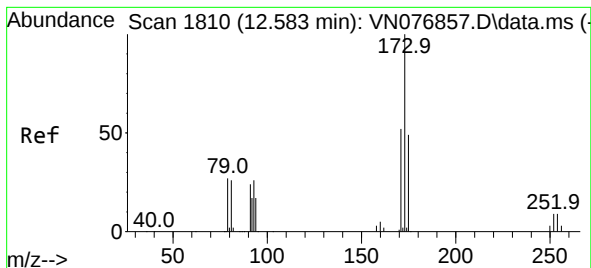
Tgt Ion: 95 Resp: 316104
Ion Ratio Lower Upper
95 100
174 72.6 0.0 162.4
176 69.3 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.005 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

Tgt Ion: 117 Resp: 659543
Ion Ratio Lower Upper
117 100
82 59.7 43.5 65.3
119 32.6 25.5 38.3





#71

Bromoform

Concen: 0.381 ug/l

RT: 12.854 min Scan# 1810

Delta R.T. 0.271 min

Lab File: VN076911.D

Acq: 09 Mar 2023 18:52

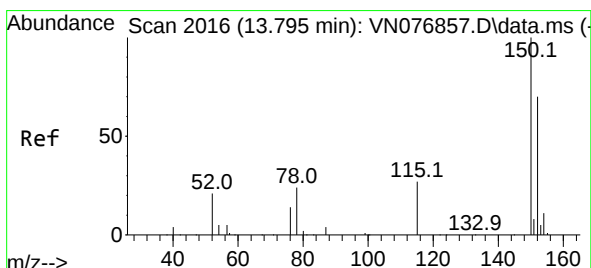
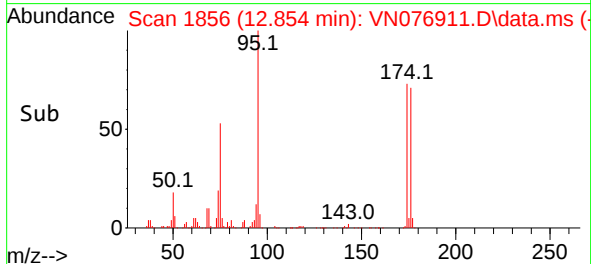
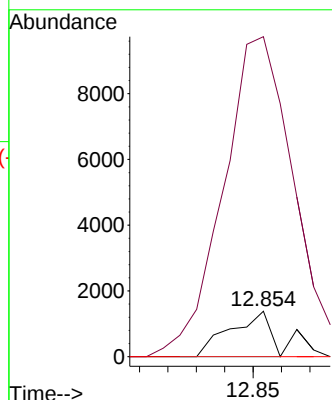
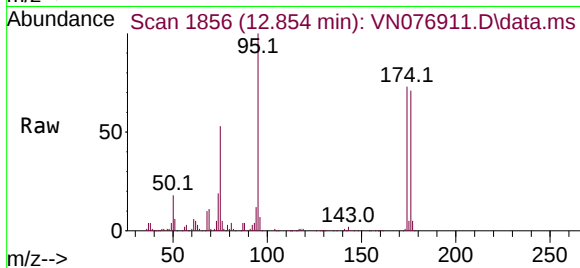
Instrument :

MSVOA_N

ClientSampleId :

PB151321ZHE#04

Tgt Ion:173	Resp:	1338
Ion Ratio	Lower	Upper
173	100	
175	1030.9	24.9 74.6#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

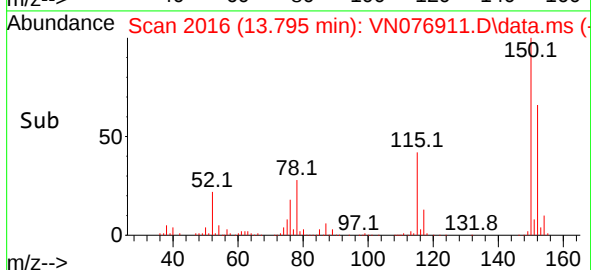
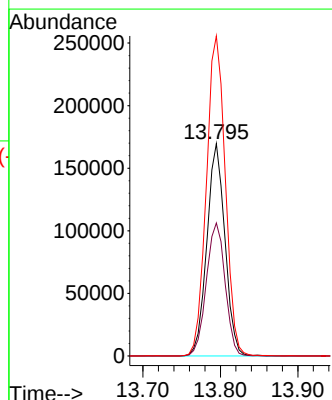
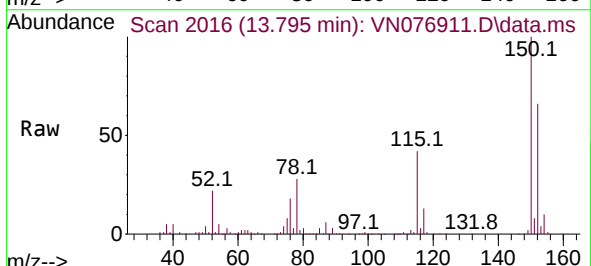
RT: 13.795 min Scan# 2016

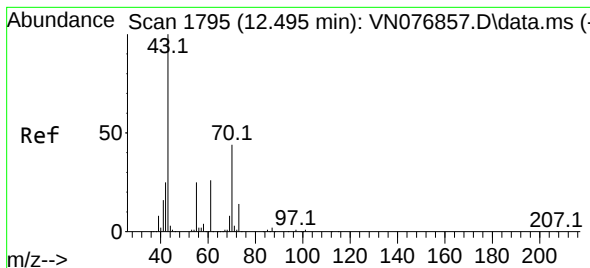
Delta R.T. -0.000 min

Lab File: VN076911.D

Acq: 09 Mar 2023 18:52

Tgt Ion:152	Resp:	274578
Ion Ratio	Lower	Upper
152	100	
115	65.1	30.3 90.9
150	157.6	0.0 353.6

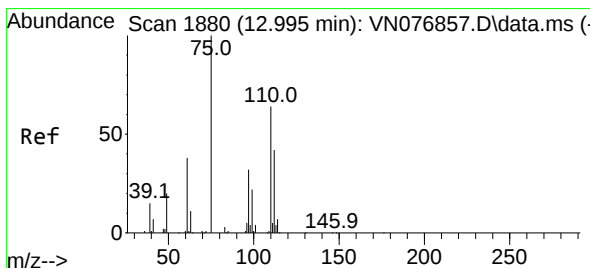
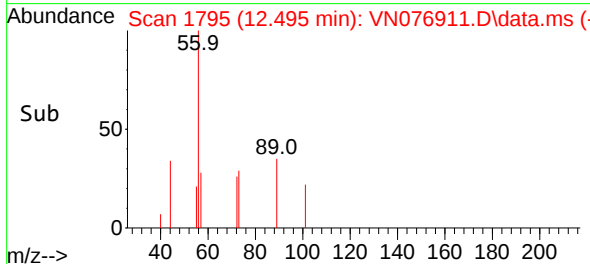
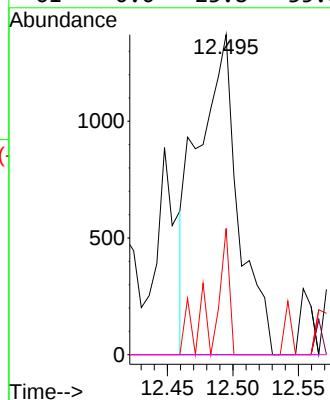
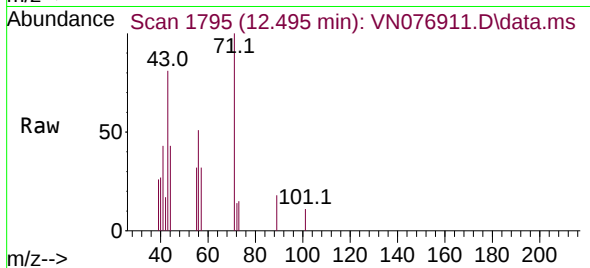




#74
N-amy1 acetate
Concen: 0.318 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

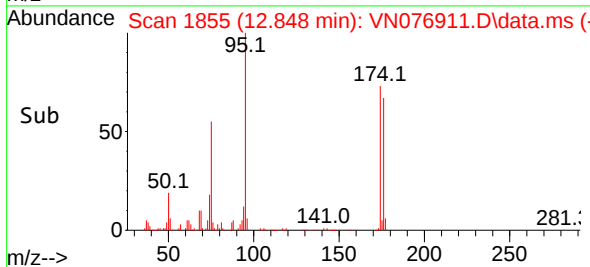
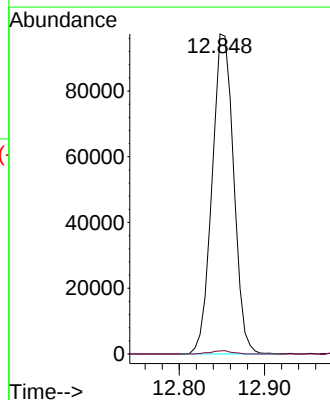
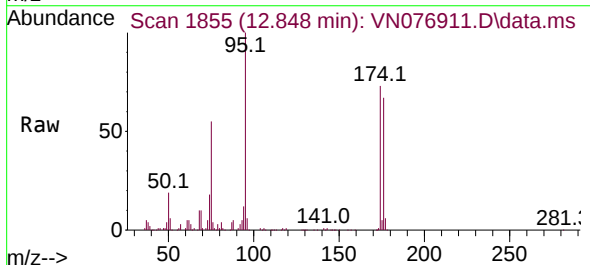
Instrument :
MSVOA_N
ClientSampleId :
PB151321ZHE#04

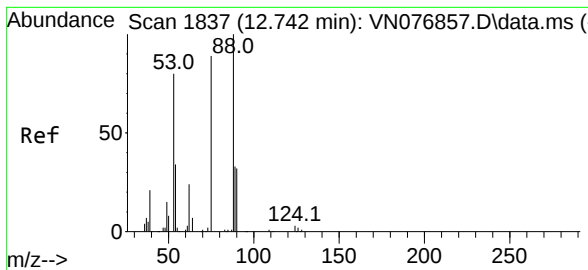
Tgt Ion:	43	Resp:	2972
Ion	Ratio	Lower	Upper
43	100		
70	0.0	46.8	70.2#
55	12.4	23.4	35.2#
61	0.0	23.8	35.8#



#76
1,2,3-Trichloropropane
Concen: 24.717 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076911.D
Acq: 09 Mar 2023 18:52

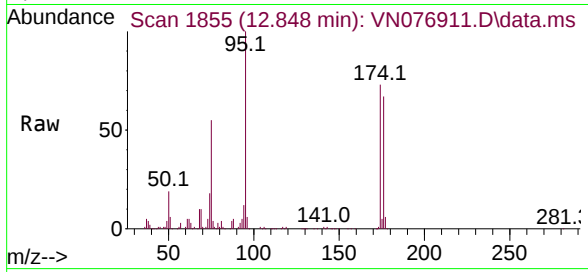
Tgt Ion:	75	Resp:	171159
Ion	Ratio	Lower	Upper
75	100		
77	1.0	93.8	281.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.517 ug/l
 RT: 12.848 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN076911.D
 Acq: 09 Mar 2023 18:52

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151321ZHE#04



Tgt Ion: 75 Resp: 171159
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.0#
 89 0.0 39.5 59.3#

