

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077216.D
 Acq On : 27 Mar 2023 21:29
 Operator : JC\MD
 Sample : PB151668ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#07

Quant Time: Mar 28 07:45:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

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

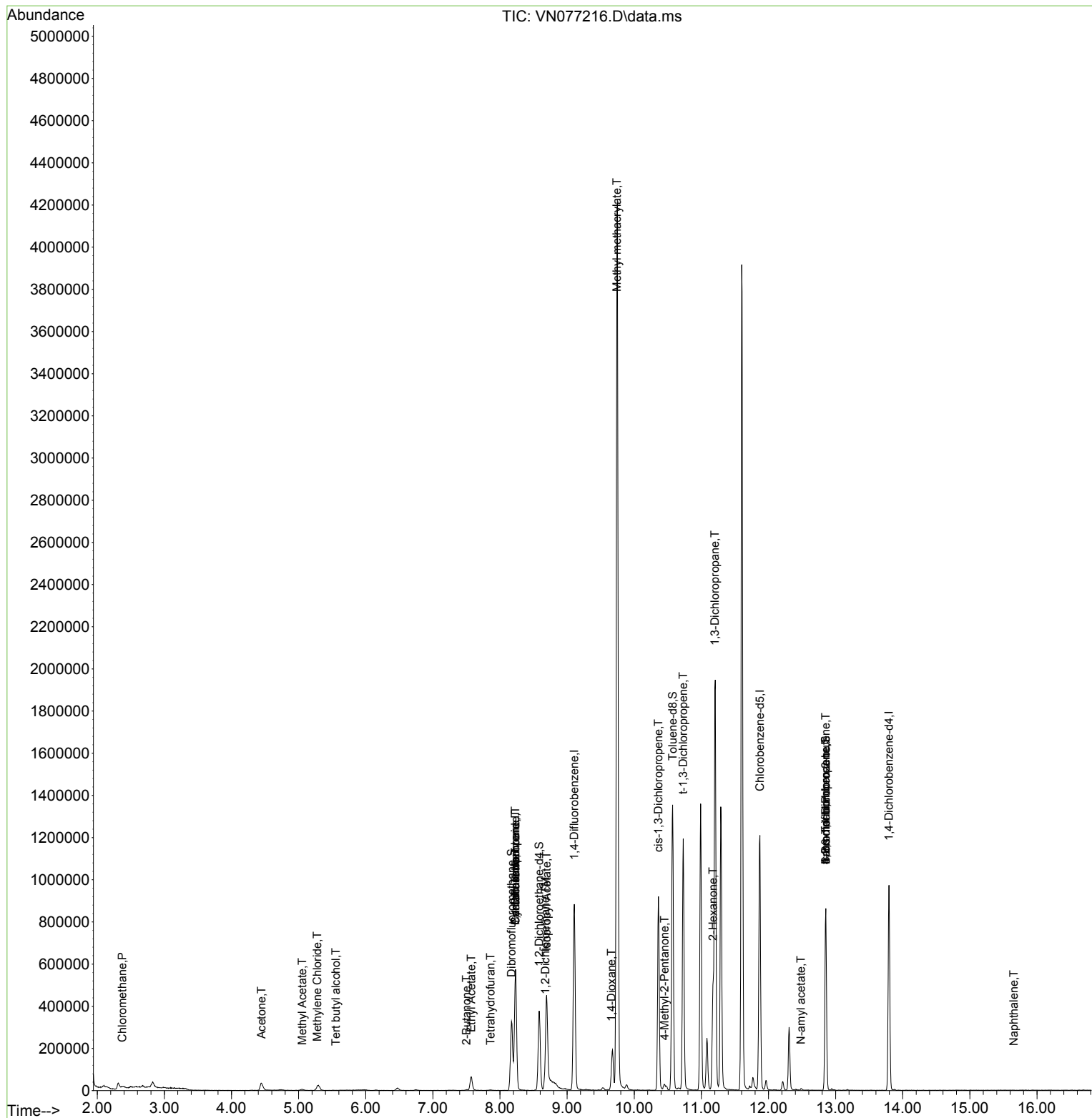
Internal Standards						
1) Pentafluorobenzene	8.231	168	399626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	735075	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	662539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	247221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	307377	49.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.380%		
35) Dibromofluoromethane	8.172	113	226589	45.428	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.860%		
50) Toluene-d8	10.572	98	913351	48.869	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.740%		
62) 4-Bromofluorobenzene	12.854	95	268385	43.755	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.500%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1771	0.303	ug/l #	40
11) Tert butyl alcohol	5.554	59	173	0.203	ug/l #	72
16) Acetone	4.448	43	66903	28.797	ug/l #	85
18) Methyl Acetate	5.054	43	11430	1.230	ug/l #	50
20) Methylene Chloride	5.278	84	8977	1.735	ug/l #	80
25) 2-Butanone	7.501	43	5901	1.624	ug/l #	81
29) Tetrahydrofuran	7.860	42	1702	0.707	ug/l #	61
31) Cyclohexane	8.231	56	11648	1.342	ug/l #	47
36) 1,1-Dichloropropene	8.231	75	37159	5.353	ug/l #	48
37) Ethyl Acetate	7.572	43	101645	13.136	ug/l #	90
38) Carbon Tetrachloride	8.231	117	44418	6.311	ug/l #	16
42) 1,2-Dichloroethane	8.678	62	1680	0.209	ug/l #	71
43) Isopropyl Acetate	8.695	43	573580	45.948	ug/l #	71
48) Methyl methacrylate	9.742	41	408442	67.944	ug/l #	28
49) 1,4-Dioxane	9.660	88	65	0.634	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	16601	2.114	ug/l	92
53) t-1,3-Dichloropropene	10.730	75	3069	0.411	ug/l #	54
54) cis-1,3-Dichloropropene	10.360	75	146223	17.902	ug/l #	73
57) 1,3-Dichloropropane	11.201	76	19830	2.184	ug/l #	44
59) 2-Hexanone	11.172	43	405937	71.913	ug/l #	17
71) Bromoform	12.854	173	2168	0.600	ug/l #	1
74) N-amyl acetate	12.483	43	3329	0.393	ug/l #	33
76) 1,2,3-Trichloropropane	12.854	75	155273	30.961	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	155273	89.234	ug/l #	15
95) Naphthalene	15.654	128	449	5.945	ug/l #	69

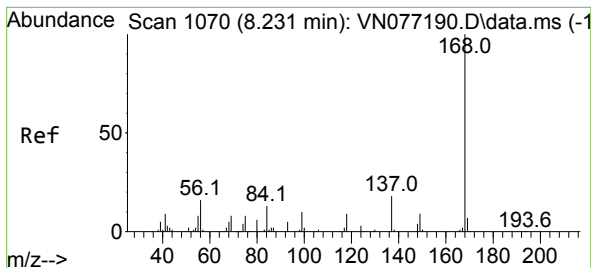
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

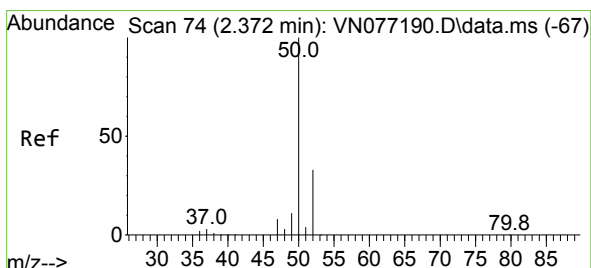
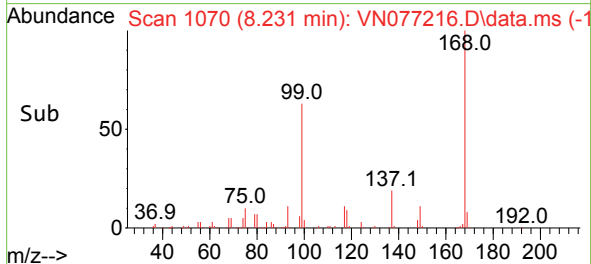
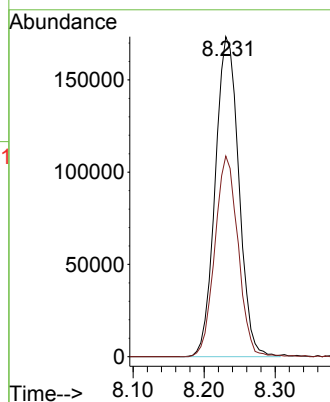
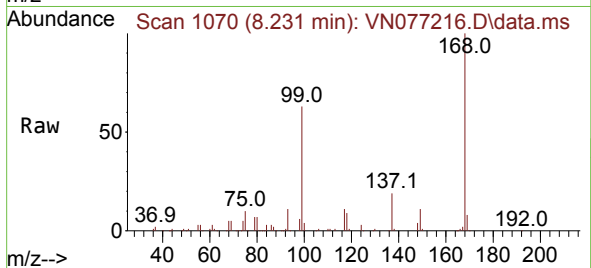
PB151668ZHE#07

Tgt Ion:168 Resp: 399626

Ion Ratio Lower Upper

168 100

99 62.7 48.6 73.0



#3

Chloromethane

Concen: 0.303 ug/l

RT: 2.372 min Scan# 74

Delta R.T. 0.000 min

Lab File: VN077216.D

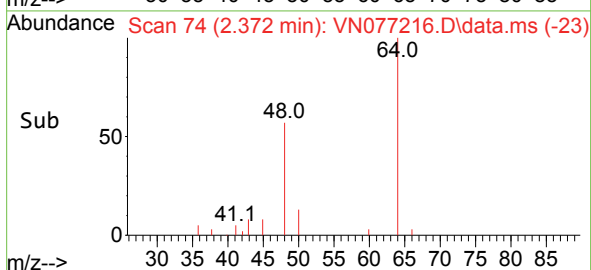
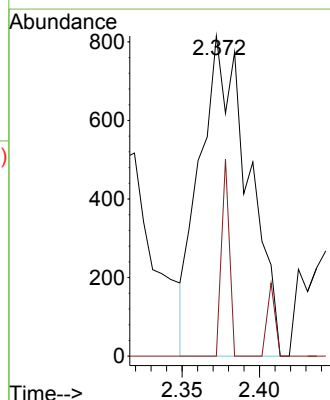
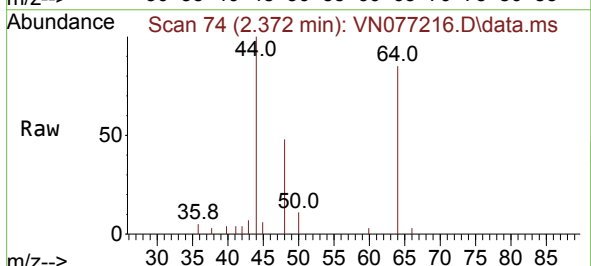
Acq: 27 Mar 2023 21:29

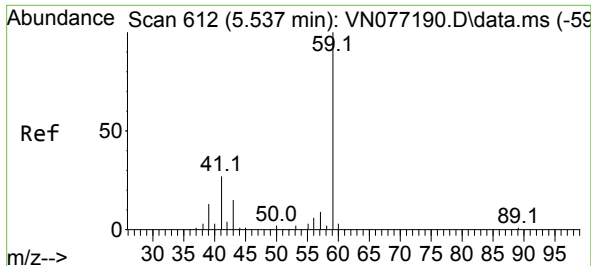
Tgt Ion: 50 Resp: 1771

Ion Ratio Lower Upper

50 100

52 0.0 27.9 41.9#





#11

Tert butyl alcohol

Concen: 0.203 ug/l

RT: 5.554 min Scan# 612

Delta R.T. 0.017 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

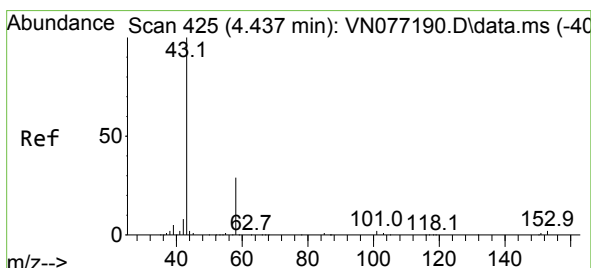
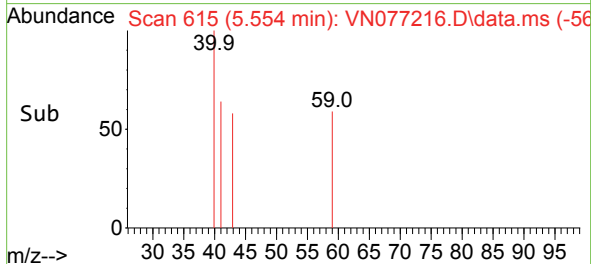
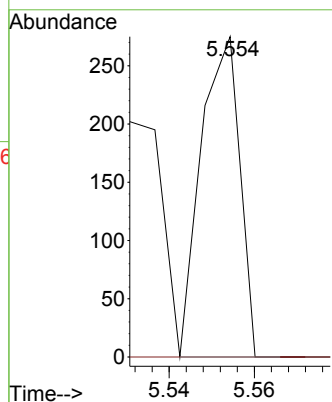
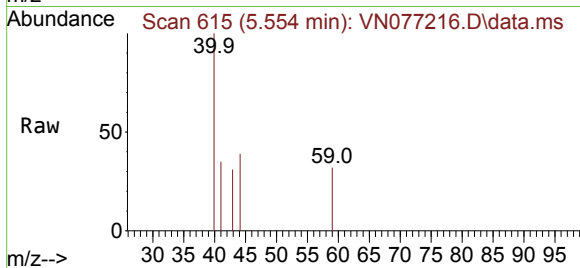
PB151668ZHE#07

Tgt Ion: 59 Resp: 173

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#16

Acetone

Concen: 28.797 ug/l

RT: 4.448 min Scan# 427

Delta R.T. 0.011 min

Lab File: VN077216.D

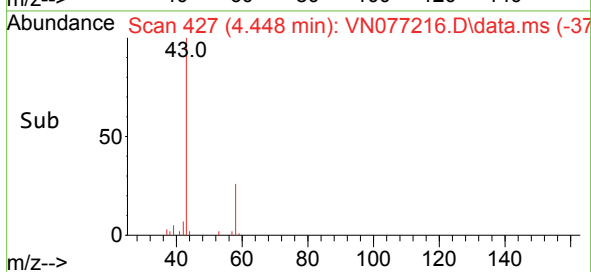
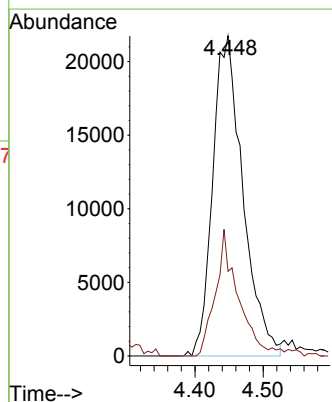
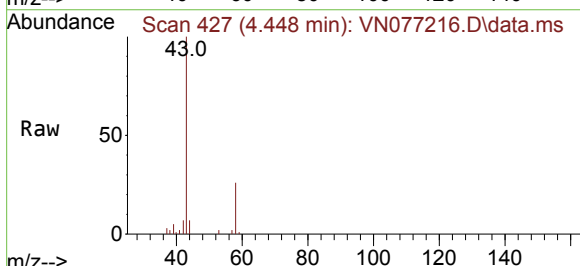
Acq: 27 Mar 2023 21:29

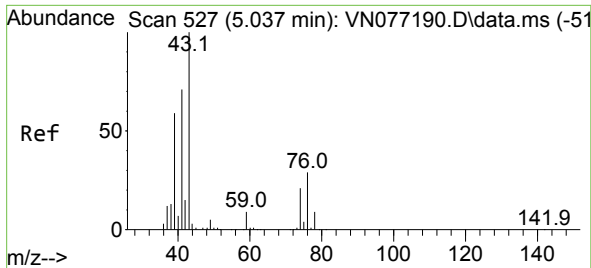
Tgt Ion: 43 Resp: 66903

Ion Ratio Lower Upper

43 100

58 26.5 28.2 42.2#

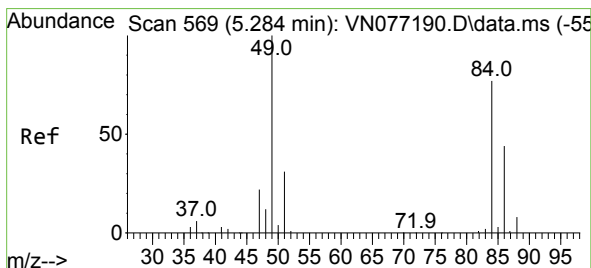
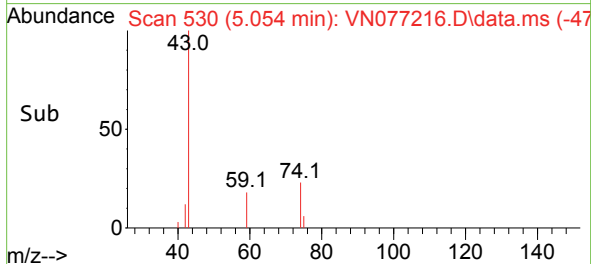
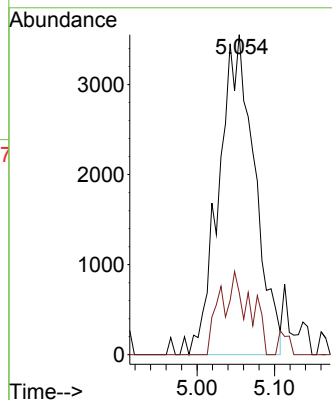
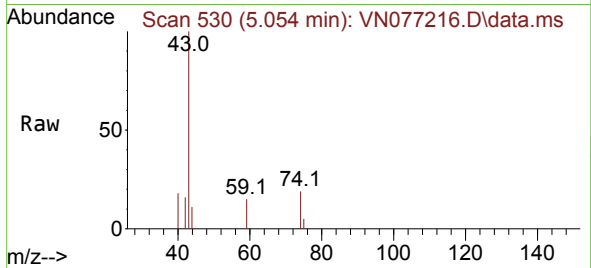




#18
Methyl Acetate
Concen: 1.230 ug/l
RT: 5.054 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

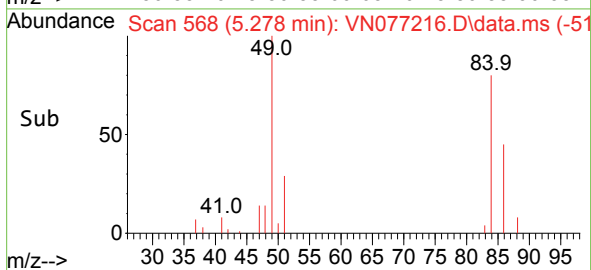
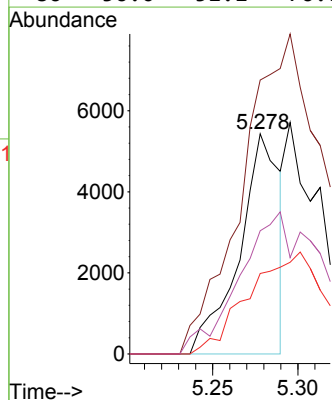
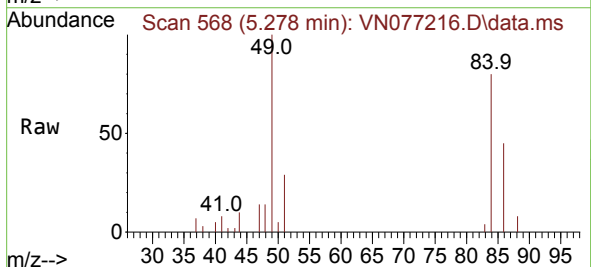
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

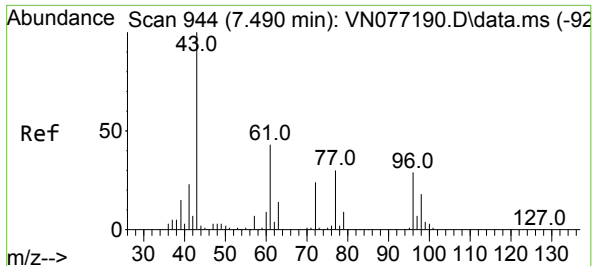
Tgt Ion: 43 Resp: 11430
Ion Ratio Lower Upper
43 100
74 4.3 25.9 38.9#



#20
Methylene Chloride
Concen: 1.735 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.006 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 84 Resp: 8977
Ion Ratio Lower Upper
84 100
49 124.5 76.6 114.8#
51 36.6 25.4 38.2
86 56.0 51.1 76.7

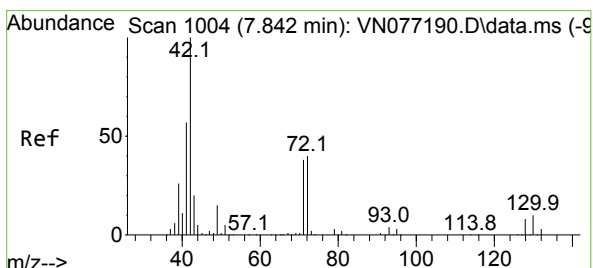
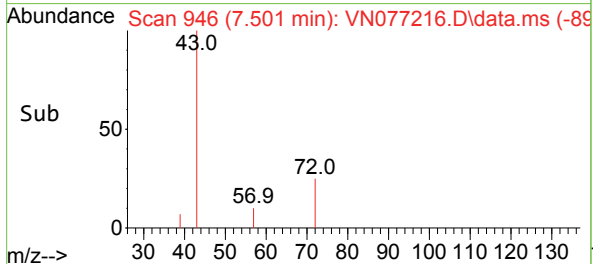
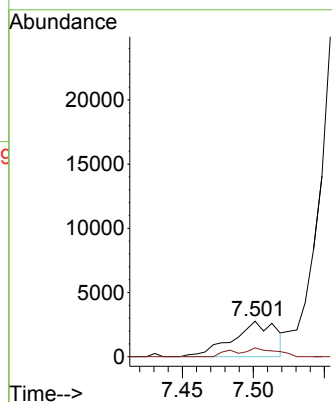
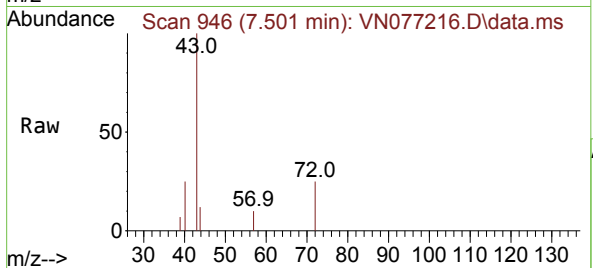




#25
2-Butanone
Concen: 1.624 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.011 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

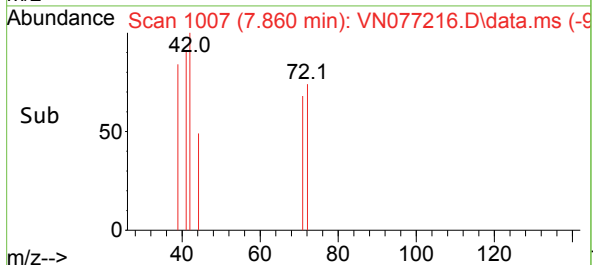
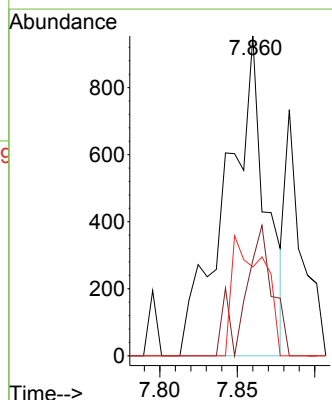
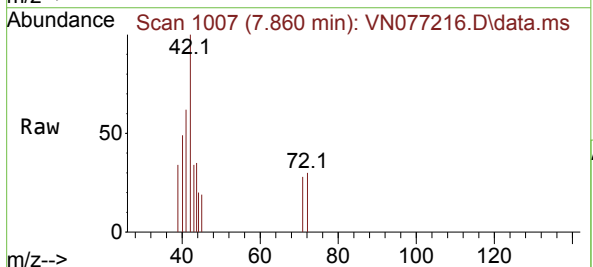
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

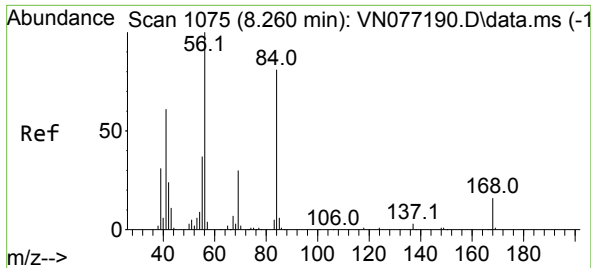
Tgt Ion: 43 Resp: 5901
Ion Ratio Lower Upper
43 100
72 24.7 28.8 43.2#



#29
Tetrahydrofuran
Concen: 0.707 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

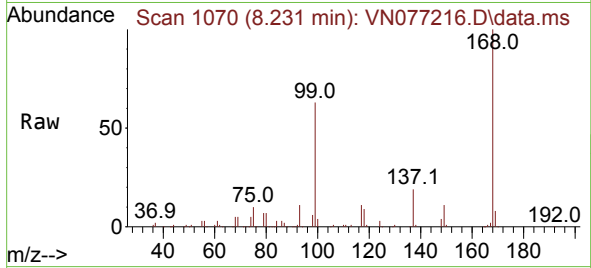
Tgt Ion: 42 Resp: 1702
Ion Ratio Lower Upper
42 100
72 28.8 48.6 73.0#
71 30.0 45.1 67.7#



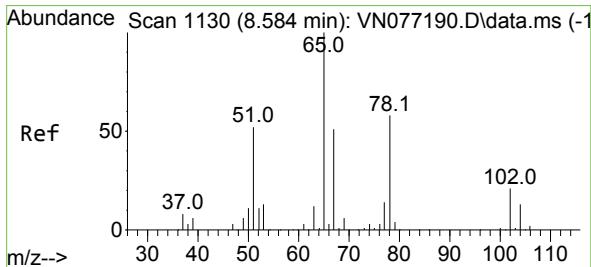
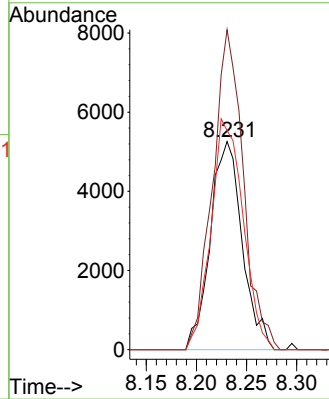
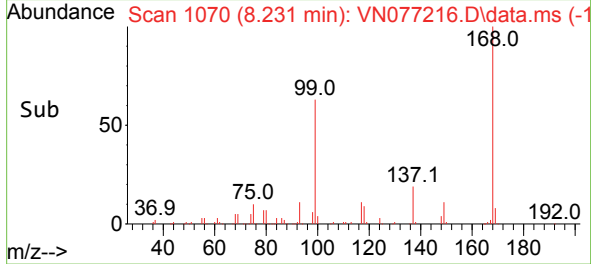


#31
Cyclohexane
Concen: 1.342 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

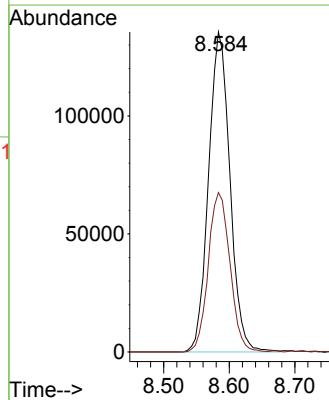
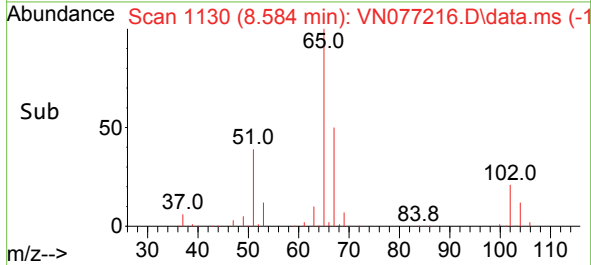
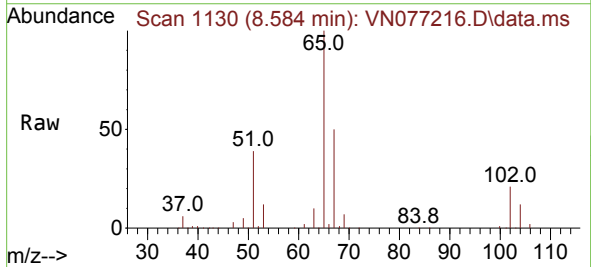


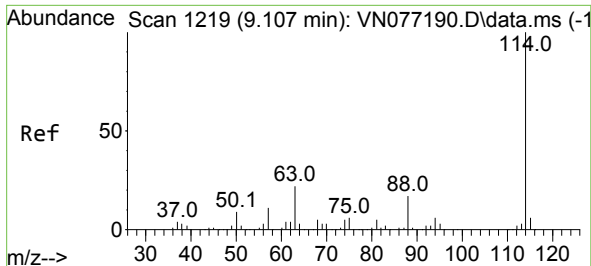
Tgt Ion: 56 Resp: 11648
Ion Ratio Lower Upper
56 100
69 153.7 27.0 40.6#
84 105.3 82.9 124.3



#33
1,2-Dichloroethane-d4
Concen: 49.193 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 65 Resp: 307377
Ion Ratio Lower Upper
65 100
67 50.5 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: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#07

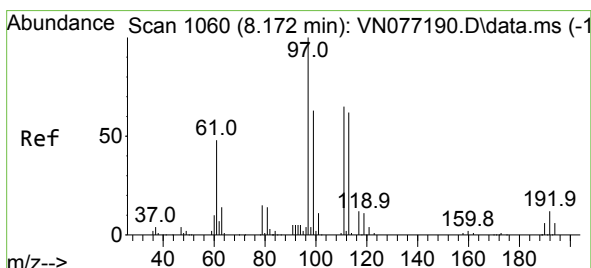
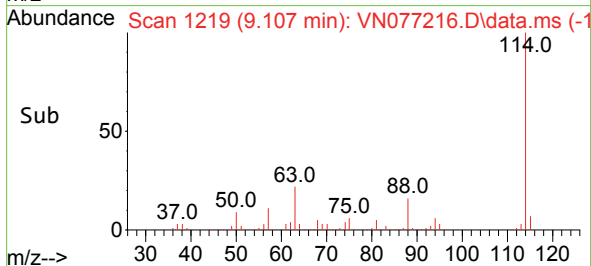
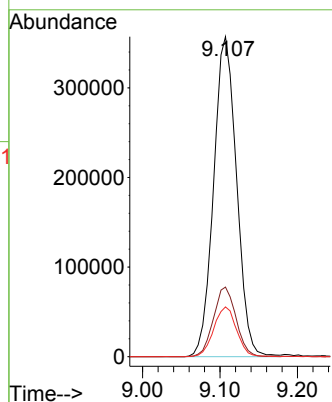
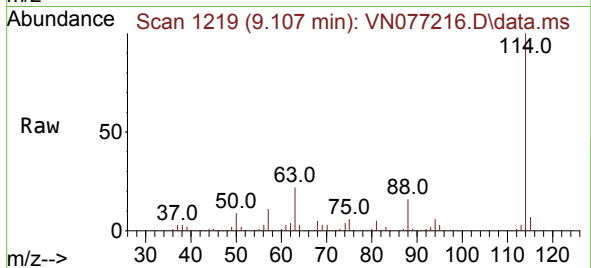
Tgt Ion:114 Resp: 735075

Ion Ratio Lower Upper

114 100

63 21.8 0.0 36.6

88 15.5 0.0 28.6



#35

Dibromofluoromethane

Concen: 45.428 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

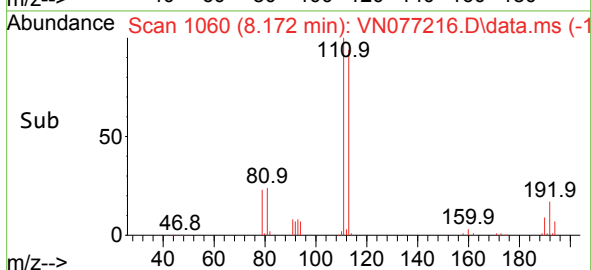
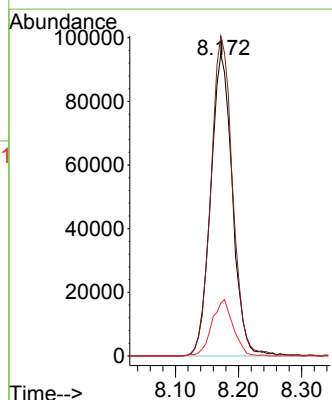
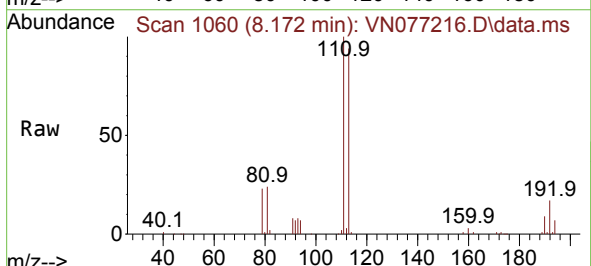
Tgt Ion:113 Resp: 226589

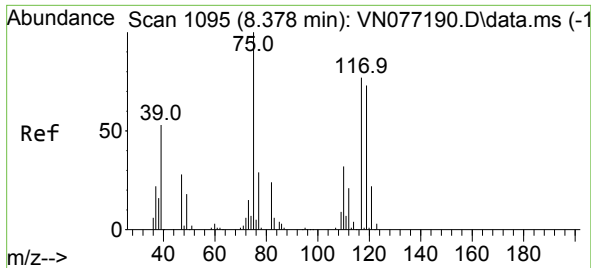
Ion Ratio Lower Upper

113 100

111 105.6 81.8 122.8

192 18.4 13.9 20.9

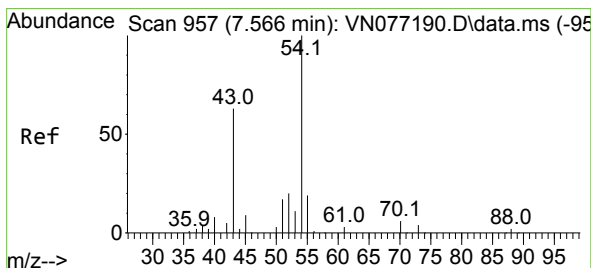
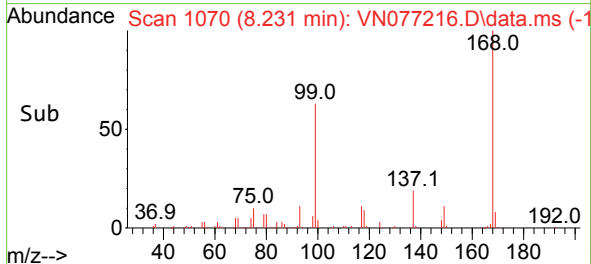
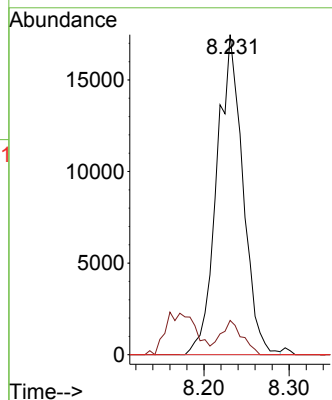
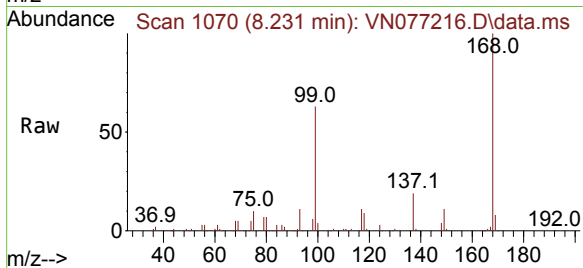




#36
1,1-Dichloropropene
Concen: 5.353 ug/l
RT: 8.231 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

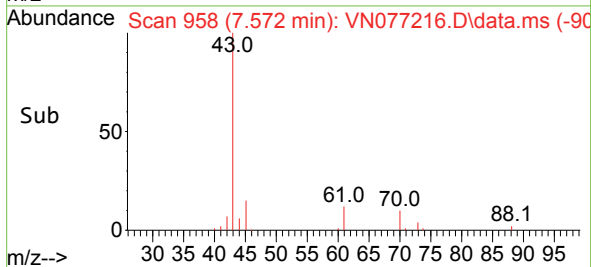
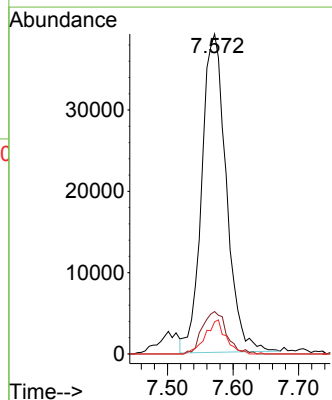
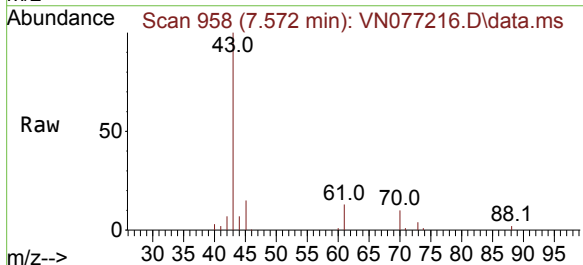
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

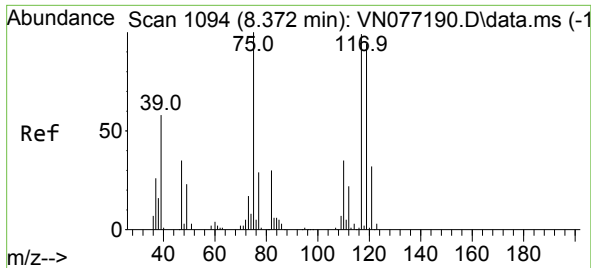
Tgt Ion: 75 Resp: 37159
Ion Ratio Lower Upper
75 100
110 8.8 18.9 56.9#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 13.136 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 43 Resp: 101645
Ion Ratio Lower Upper
43 100
61 13.3 13.5 20.3#
70 9.0 11.0 16.6#

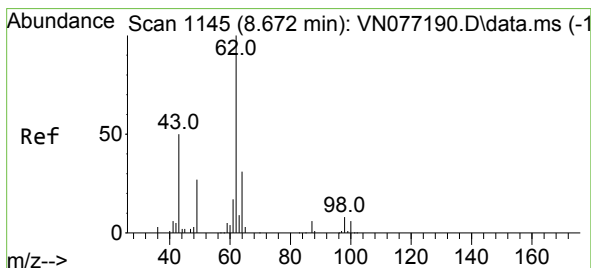
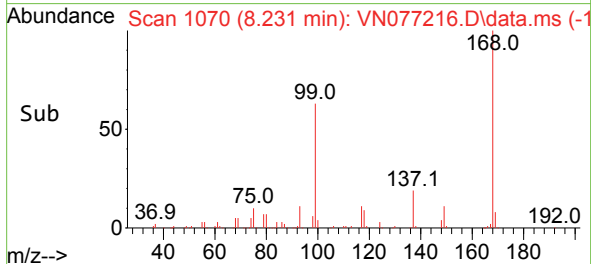
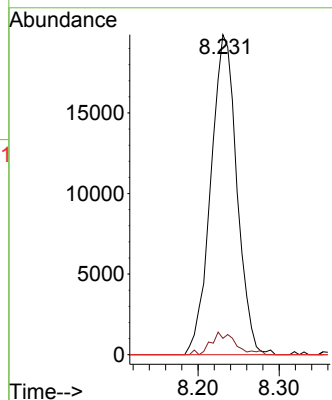
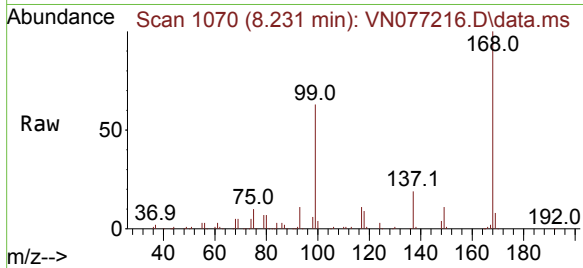




#38
Carbon Tetrachloride
Concen: 6.311 ug/l
RT: 8.231 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

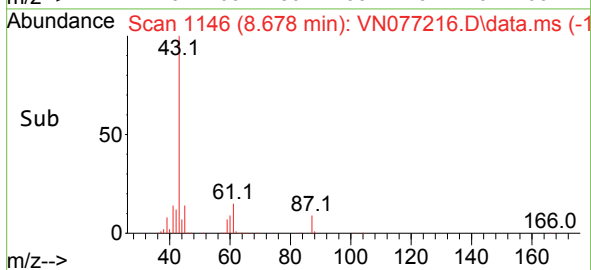
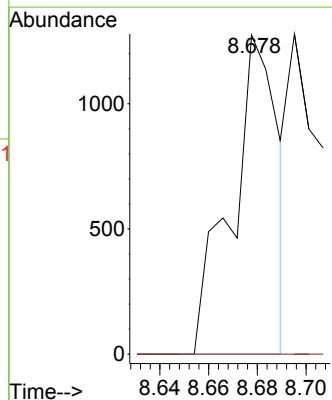
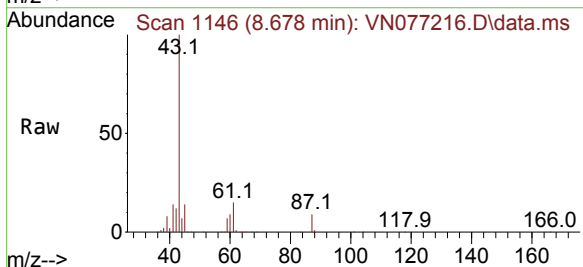
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

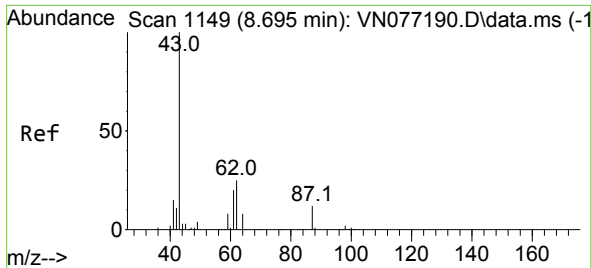
Tgt Ion:117 Resp: 44418
Ion Ratio Lower Upper
117 100
119 5.1 76.9 115.3#
121 0.0 23.2 34.8#



#42
1,2-Dichloroethane
Concen: 0.209 ug/l
RT: 8.678 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 62 Resp: 1680
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8

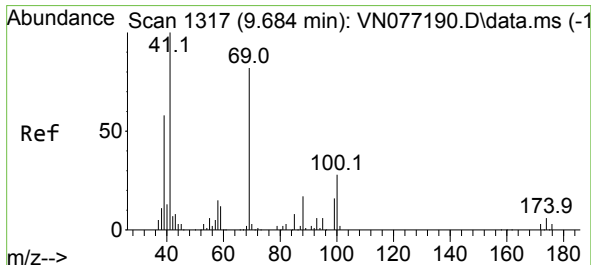
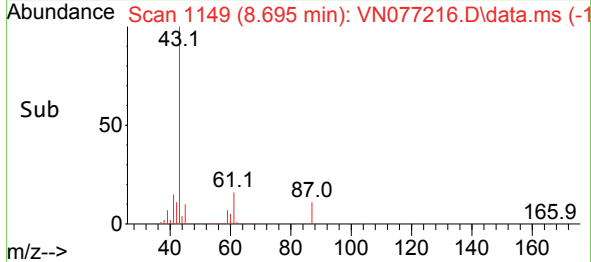
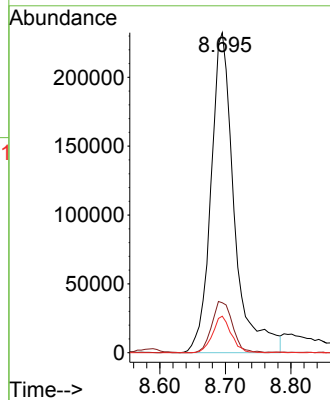
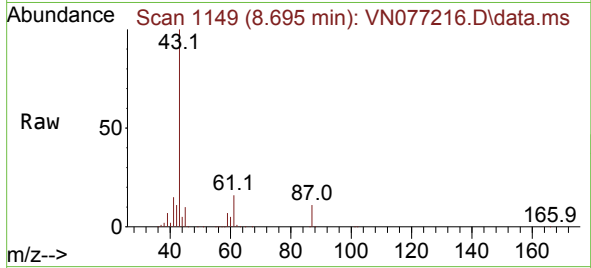




#43
Isopropyl Acetate
Concen: 45.948 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

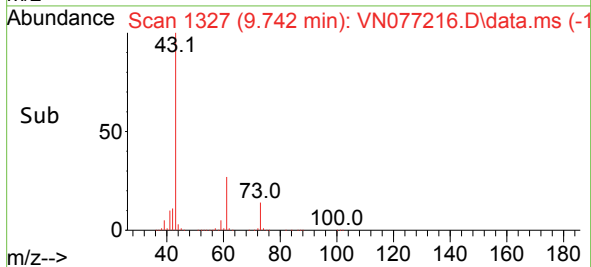
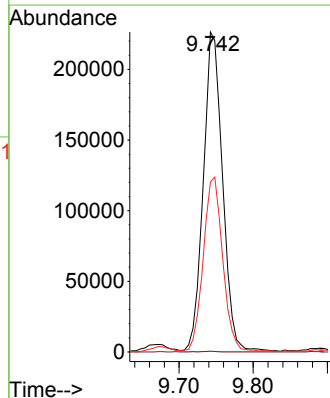
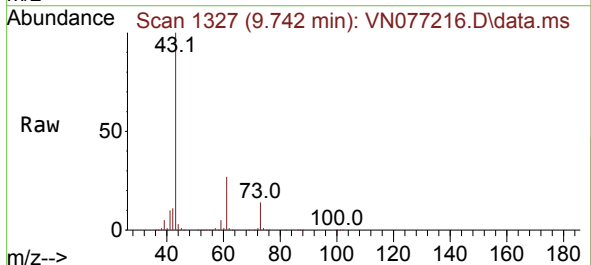
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

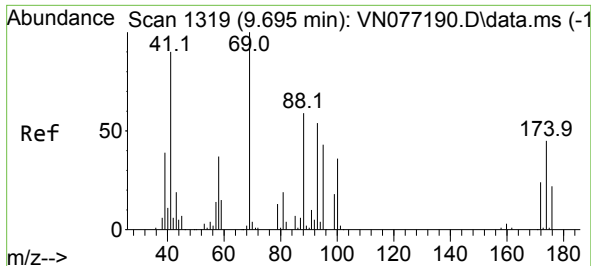
Tgt Ion: 43 Resp: 573580
Ion Ratio Lower Upper
43 100
61 14.2 26.2 39.2#
87 9.1 14.8 22.2#



#48
Methyl methacrylate
Concen: 67.944 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.058 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 41 Resp: 408442
Ion Ratio Lower Upper
41 100
69 0.2 92.6 139.0#
39 55.7 51.4 77.0





#49

1,4-Dioxane

Concen: 0.634 ug/l

RT: 9.660 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#07

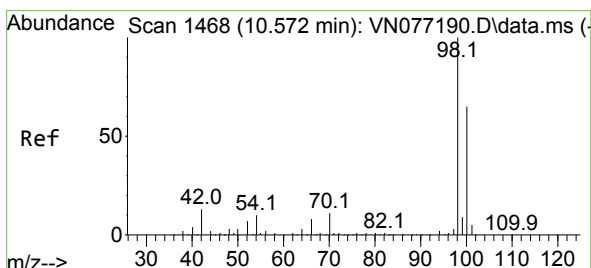
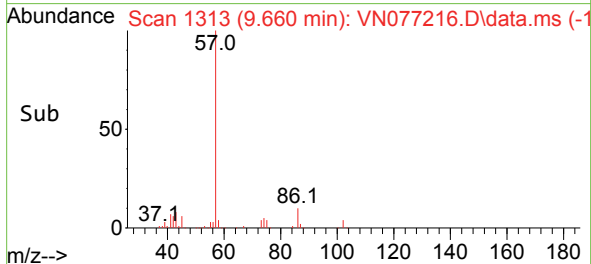
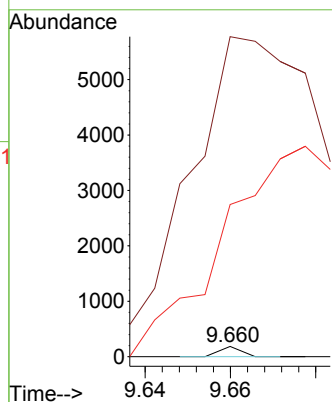
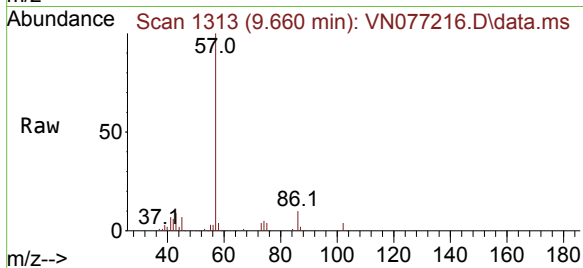
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 13033.8 47.6 71.4#



#50

Toluene-d8

Concen: 48.869 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077216.D

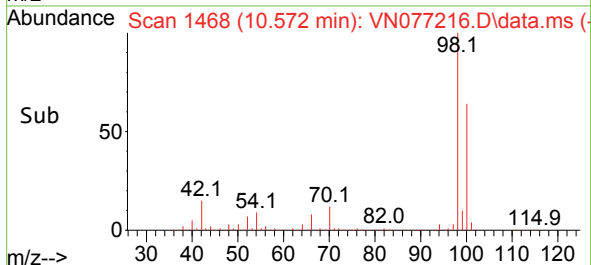
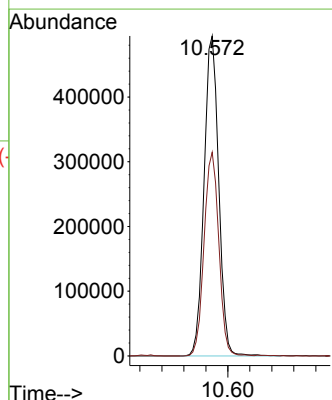
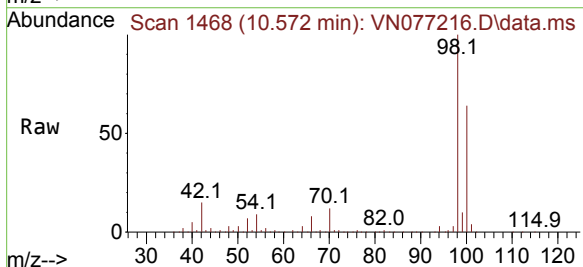
Acq: 27 Mar 2023 21:29

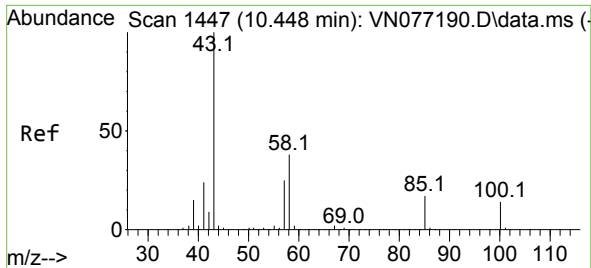
Tgt Ion: 98 Resp: 913351

Ion Ratio Lower Upper

98 100

100 64.0 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 10.454 min Scan# 1447

Delta R.T. 0.006 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

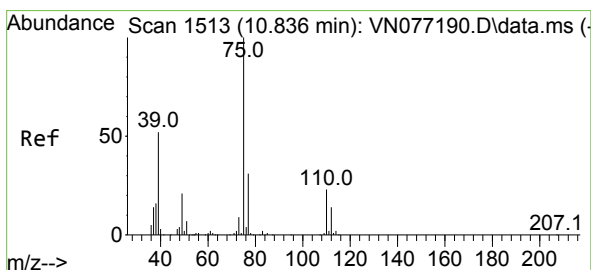
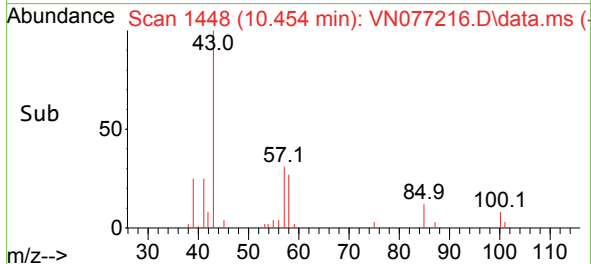
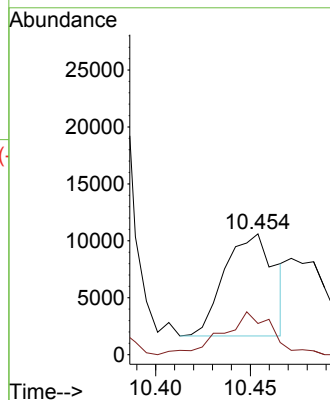
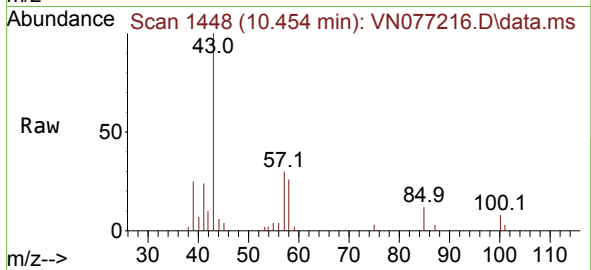
PB151668ZHE#07

Tgt Ion: 43 Resp: 16601

Ion Ratio Lower Upper

43 100

58 41.5 37.4 56.0



#53

t-1,3-Dichloropropene

Concen: 0.411 ug/l

RT: 10.730 min Scan# 1495

Delta R.T. -0.106 min

Lab File: VN077216.D

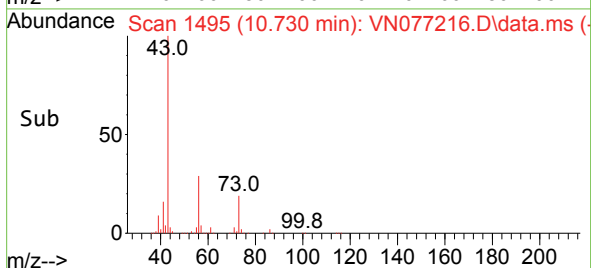
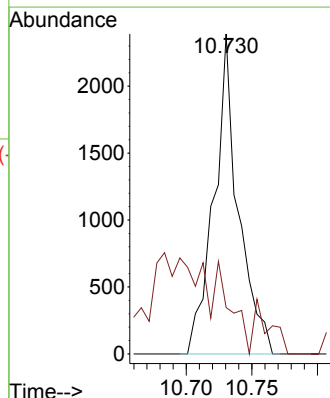
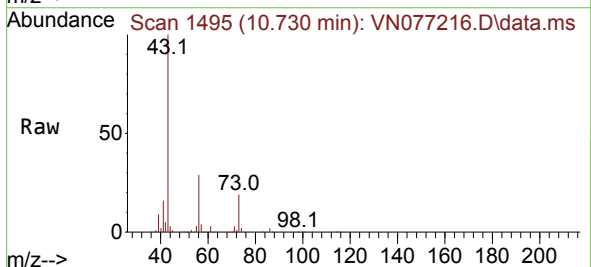
Acq: 27 Mar 2023 21:29

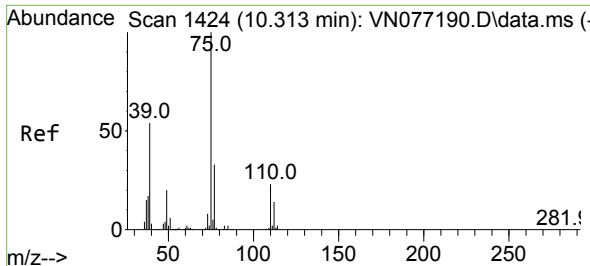
Tgt Ion: 75 Resp: 3069

Ion Ratio Lower Upper

75 100

77 6.2 25.0 37.6#

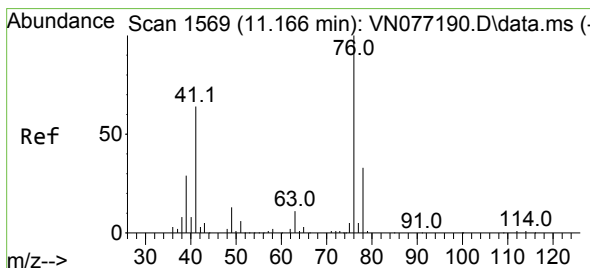
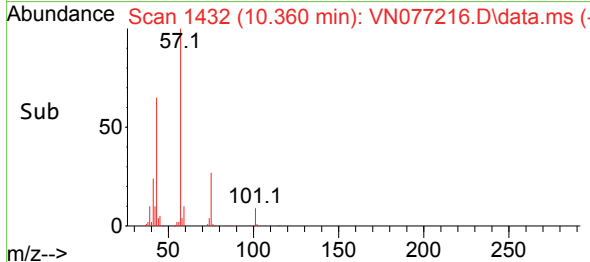
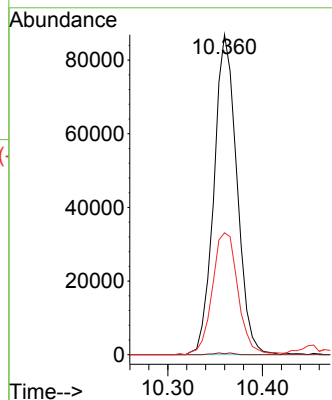
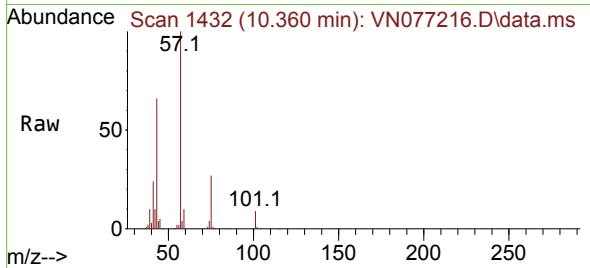




#54
 cis-1,3-Dichloropropene
 Concen: 17.902 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077216.D
 Acq: 27 Mar 2023 21:29

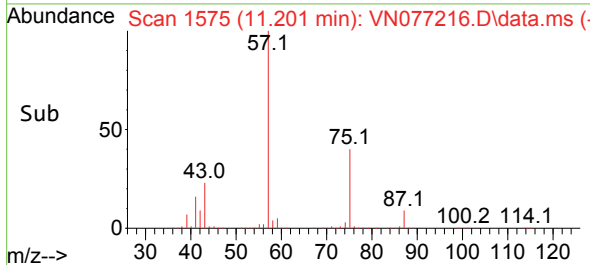
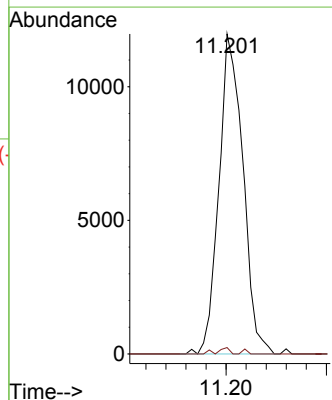
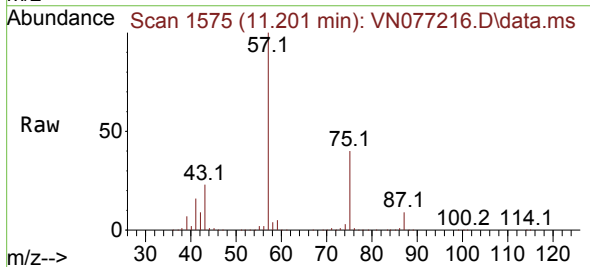
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#07

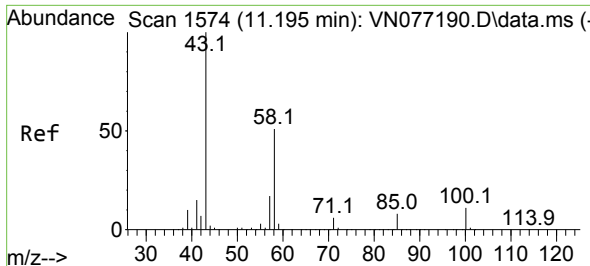
Tgt Ion: 75 Resp: 146223
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.7 38.5#
 39 37.8 29.7 44.5



#57
 1,3-Dichloropropane
 Concen: 2.184 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077216.D
 Acq: 27 Mar 2023 21:29

Tgt Ion: 76 Resp: 19830
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.1 39.1#

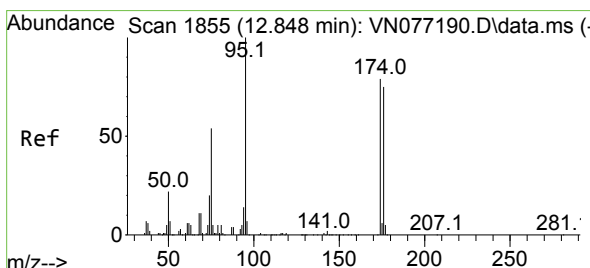
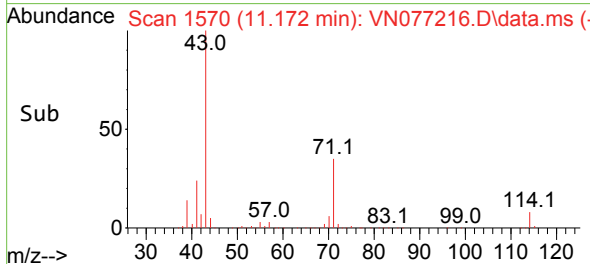
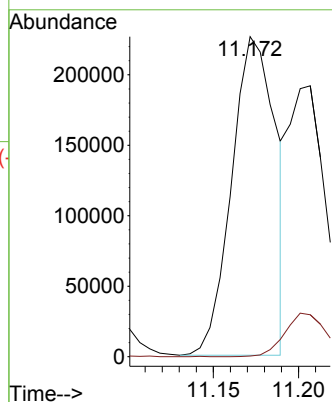
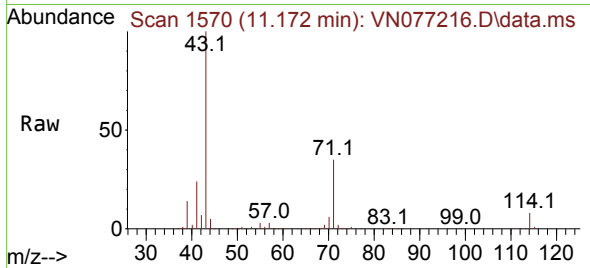




#59
2-Hexanone
Concen: 71.913 ug/l
RT: 11.172 min Scan# 11172
Delta R.T. -0.023 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

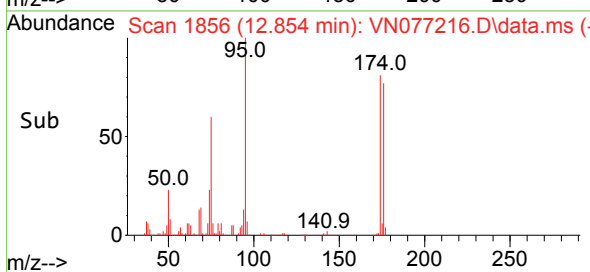
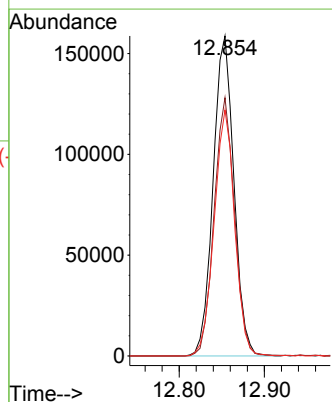
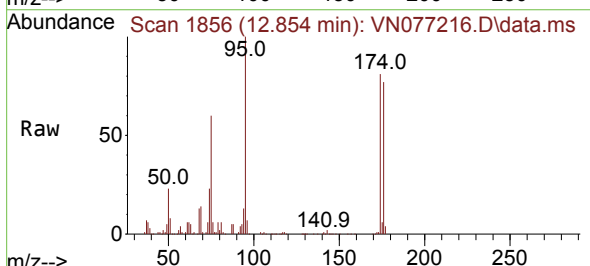
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

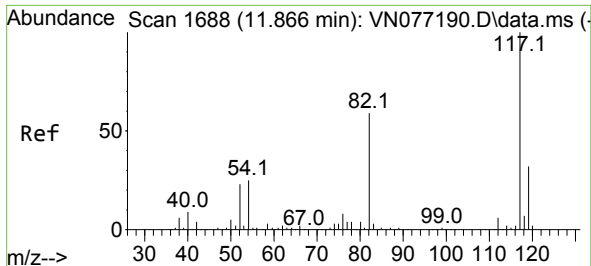
Tgt Ion: 43 Resp: 405937
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 43.755 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 95 Resp: 268385
Ion Ratio Lower Upper
95 100
174 79.7 0.0 162.4
176 76.2 0.0 157.4

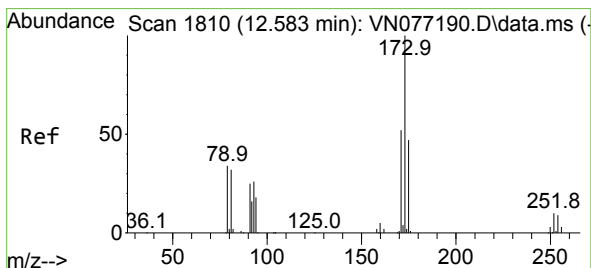
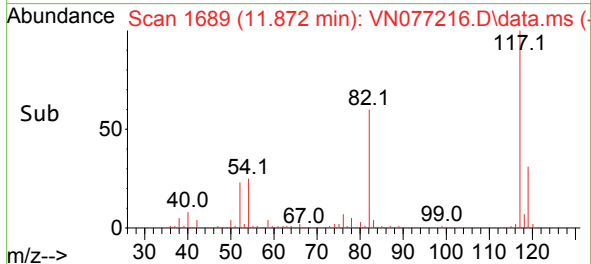
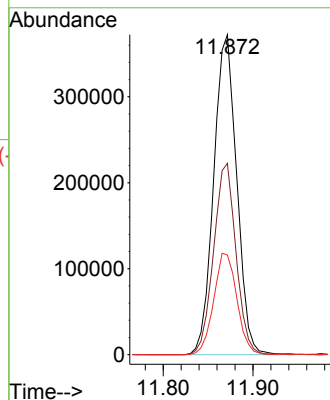
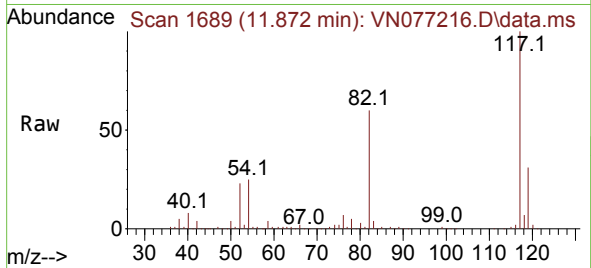




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

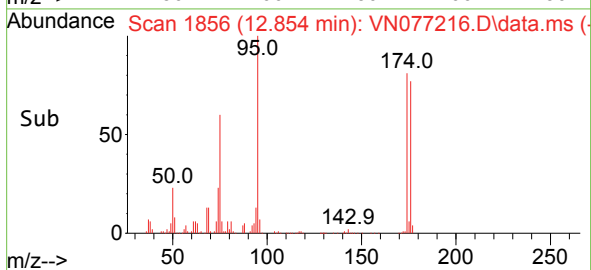
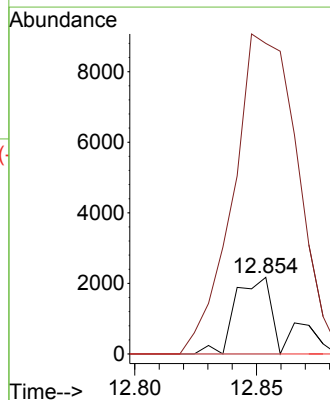
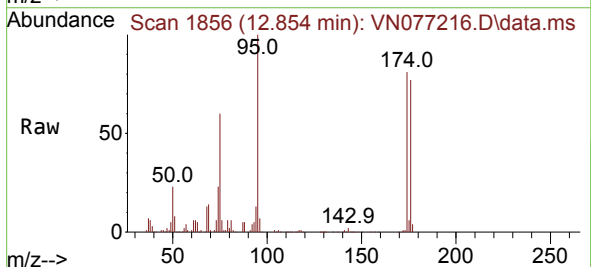
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

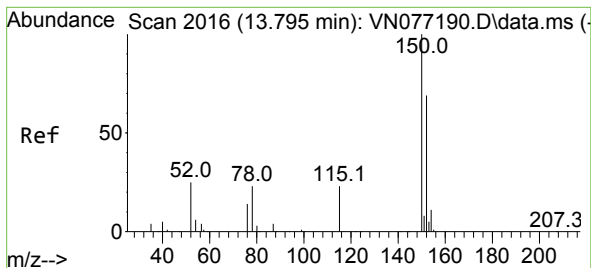
Tgt Ion:117 Resp: 662539
Ion Ratio Lower Upper
117 100
82 59.8 43.5 65.3
119 31.2 25.5 38.3



#71
Bromoform
Concen: 0.600 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion:173 Resp: 2168
Ion Ratio Lower Upper
173 100
175 595.0 24.9 74.6#
254 0.0 0.0 0.0

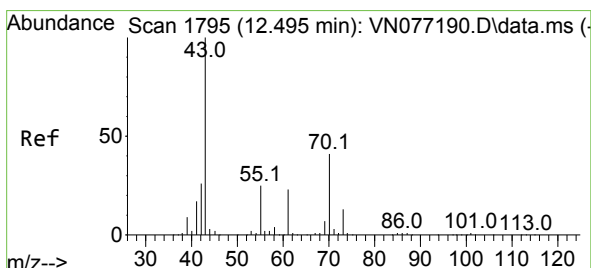
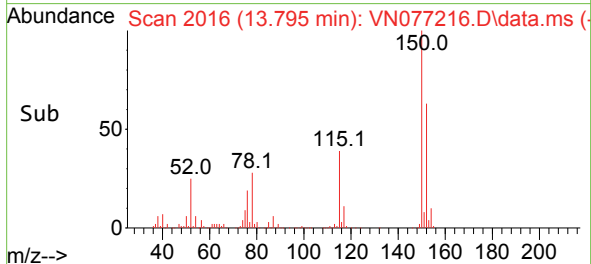
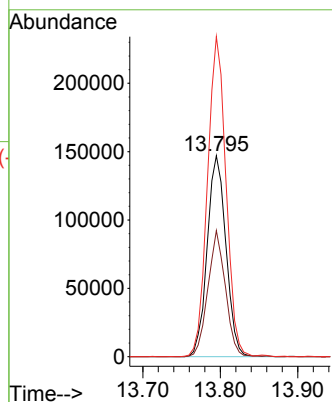
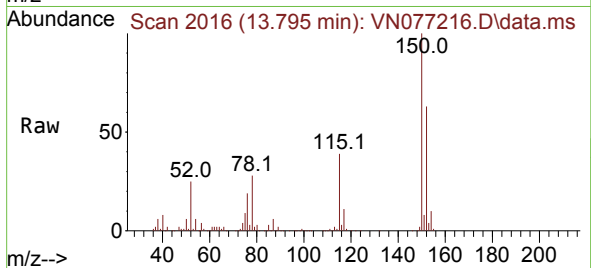




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

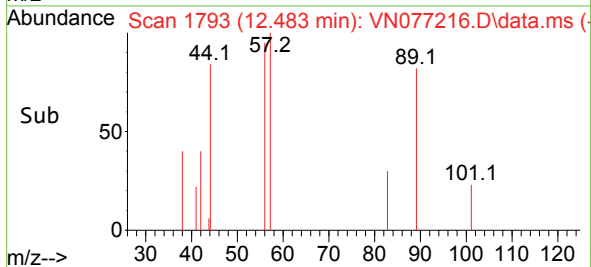
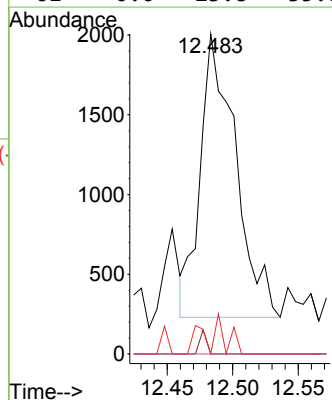
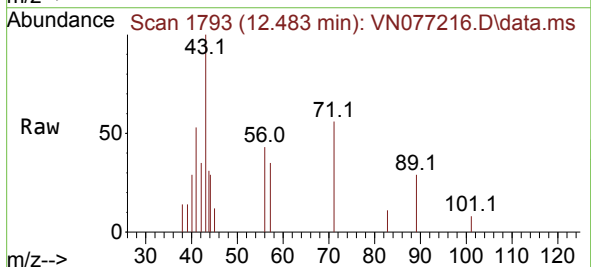
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07

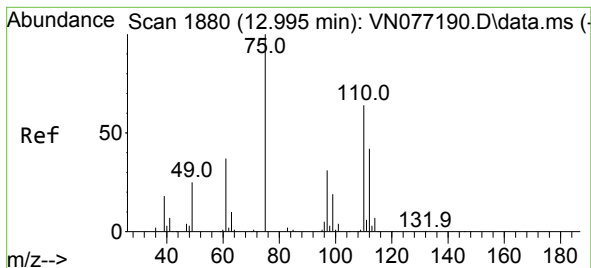
Tgt Ion:152 Resp: 247221
Ion Ratio Lower Upper
152 100
115 58.6 30.3 90.9
150 156.8 0.0 353.6



#74
N-ethyl acetate
Concen: 0.393 ug/l
RT: 12.483 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Tgt Ion: 43 Resp: 3329
Ion Ratio Lower Upper
43 100
70 0.0 46.8 70.2#
55 0.0 23.4 35.2#
61 0.0 23.8 35.8#





#76

1,2,3-Trichloropropane

Concen: 30.961 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

Instrument :

MSVOA_N

ClientSampleId :

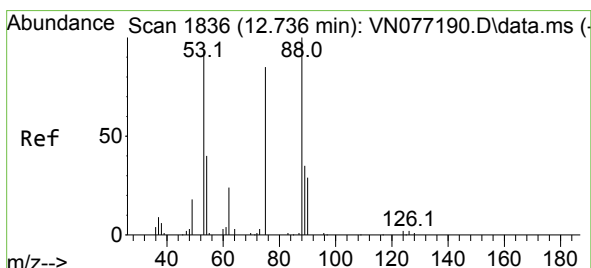
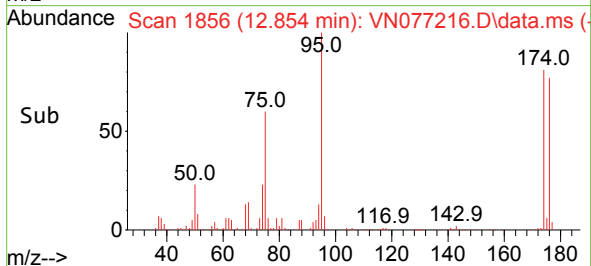
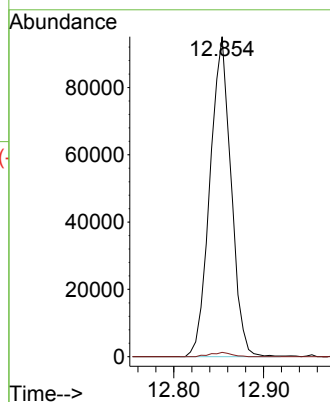
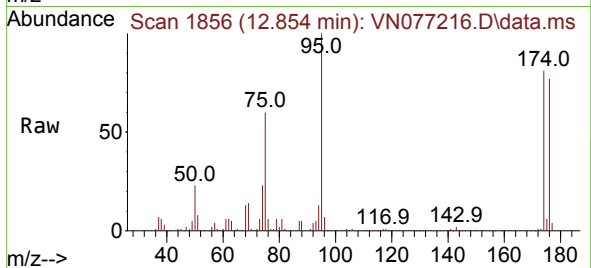
PB151668ZHE#07

Tgt Ion: 75 Resp: 155273

Ion Ratio Lower Upper

75 100

77 1.4 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.234 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN077216.D

Acq: 27 Mar 2023 21:29

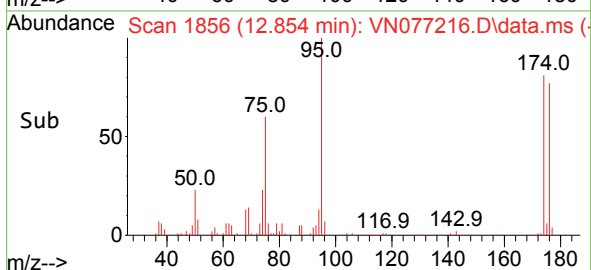
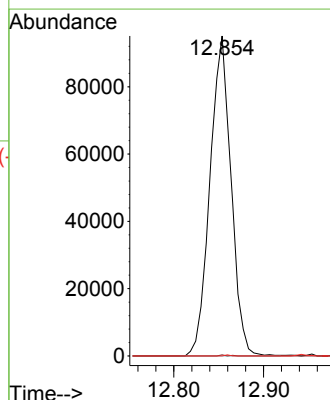
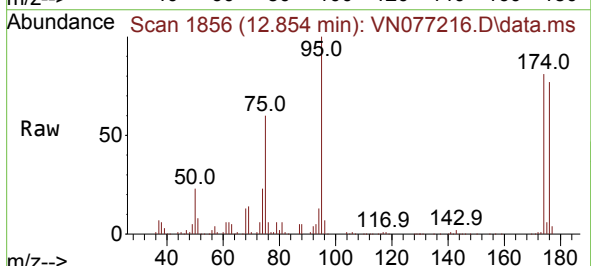
Tgt Ion: 75 Resp: 155273

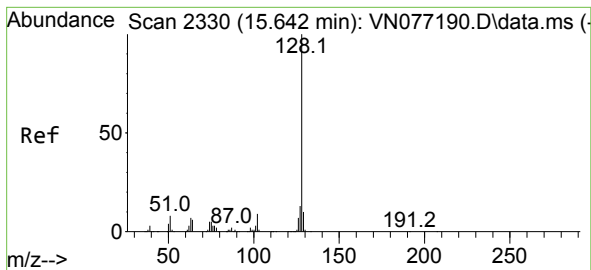
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.0#

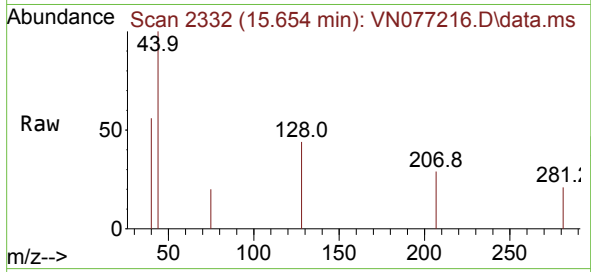
89 0.1 39.5 59.3#





#95
Naphthalene
Concen: 5.945 ug/l
RT: 15.654 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN077216.D
Acq: 27 Mar 2023 21:29

Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#07



Tgt Ion:128 Resp: 449
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.9 13.3#

