

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077213.D
 Acq On : 27 Mar 2023 20:16
 Operator : JC\MD
 Sample : PB151668ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#04

Quant Time: Mar 28 07:43:51 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)

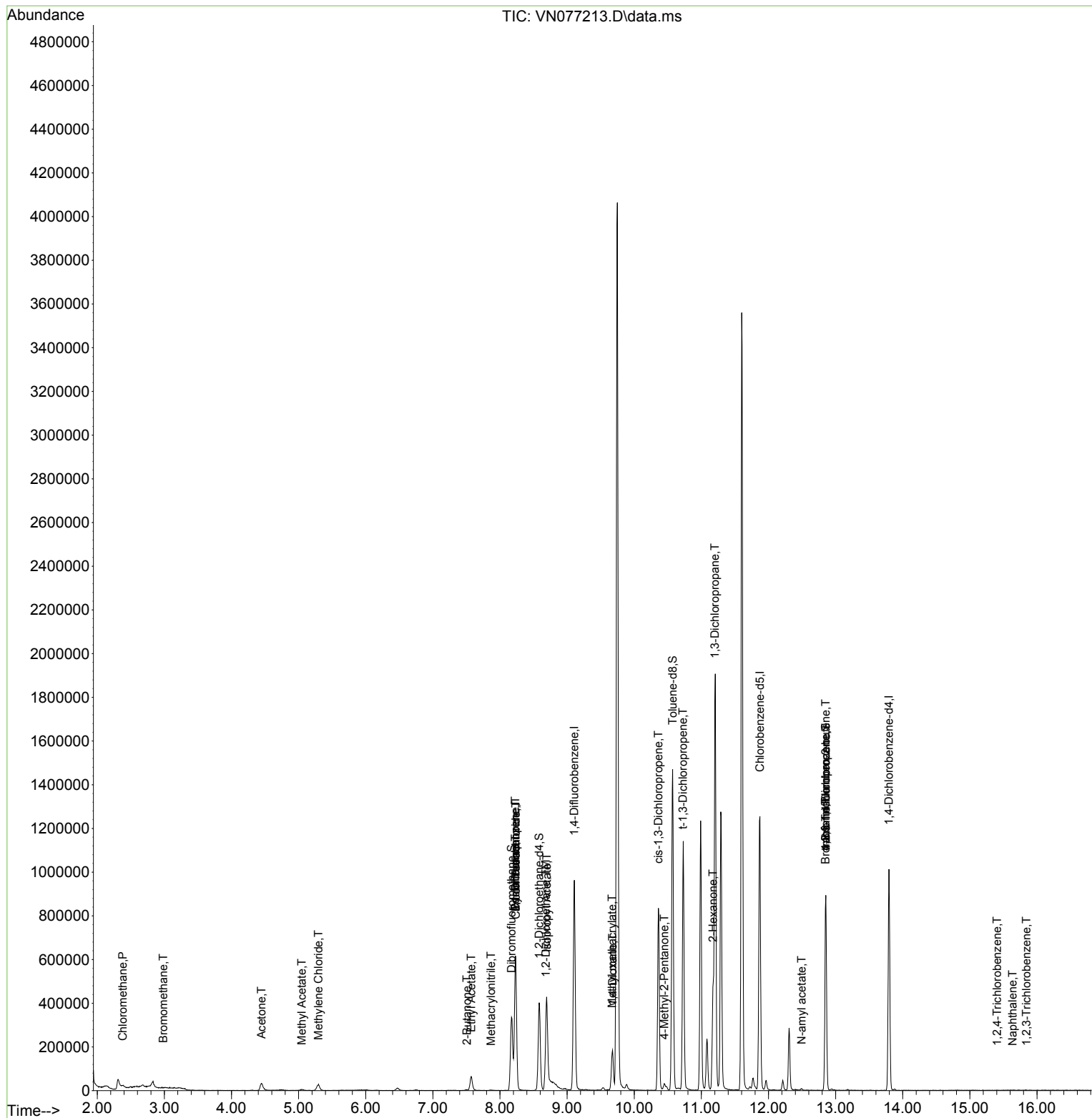
Internal Standards						
1) Pentafluorobenzene	8.231	168	426267	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	770613	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	692119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	255693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	320247	48.050	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.100%		
35) Dibromofluoromethane	8.172	113	243319	46.533	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.060%		
50) Toluene-d8	10.572	98	969823	49.498	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.000%		
62) 4-Bromofluorobenzene	12.854	95	295660	45.979	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.960%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	1510	0.242	ug/l #	40
5) Bromomethane	2.984	94	1703	0.303	ug/l	97
16) Acetone	4.448	43	62205	25.101	ug/l	92
18) Methyl Acetate	5.048	43	9576	0.966	ug/l #	61
20) Methylene Chloride	5.295	84	20043	3.632	ug/l #	80
25) 2-Butanone	7.507	43	5727	1.478	ug/l #	64
31) Cyclohexane	8.231	56	11713	1.265	ug/l #	54
36) 1,1-Dichloropropene	8.231	75	37372	5.135	ug/l #	47
37) Ethyl Acetate	7.572	43	97416	12.009	ug/l #	92
38) Carbon Tetrachloride	8.236	117	47496	6.437	ug/l #	16
41) Methacrylonitrile	7.866	41	1000	0.226	ug/l #	20
42) 1,2-Dichloroethane	8.683	62	2687	0.320	ug/l #	71
43) Isopropyl Acetate	8.695	43	526707	40.247	ug/l #	72
48) Methyl methacrylate	9.672	41	12357	1.961	ug/l #	29
49) 1,4-Dioxane	9.677	88	60	0.558	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	16599	2.016	ug/l	99
53) t-1,3-Dichloropropene	10.724	75	2853	0.365	ug/l #	77
54) cis-1,3-Dichloropropene	10.360	75	138530	16.178	ug/l #	68
57) 1,3-Dichloropropane	11.201	76	16975	1.783	ug/l #	42
59) 2-Hexanone	11.172	43	374978	63.365	ug/l #	17
71) Bromoform	12.848	173	3278	0.869	ug/l #	1
74) N-amyl acetate	12.495	43	3020	0.344	ug/l #	41
76) 1,2,3-Trichloropropane	12.854	75	160463	30.936	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	160463	89.162	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.407	180	350	4.455	ug/l #	40
95) Naphthalene	15.636	128	1119	5.987	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.842	180	56	4.661	ug/l #	1

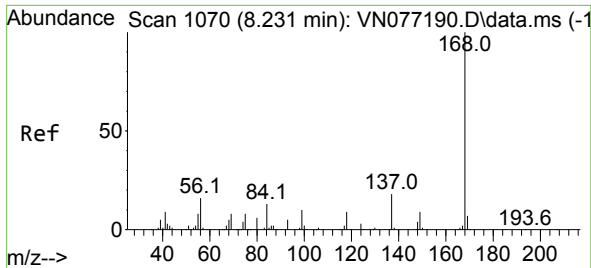
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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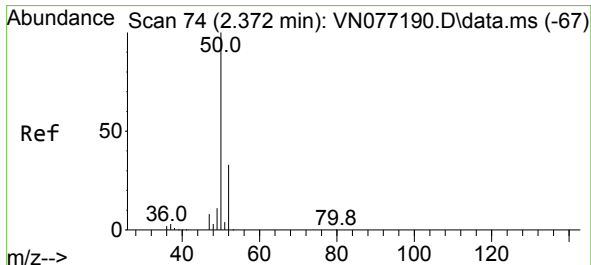
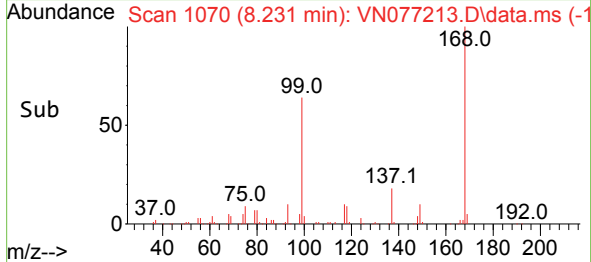
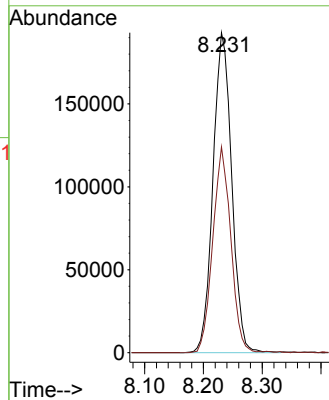
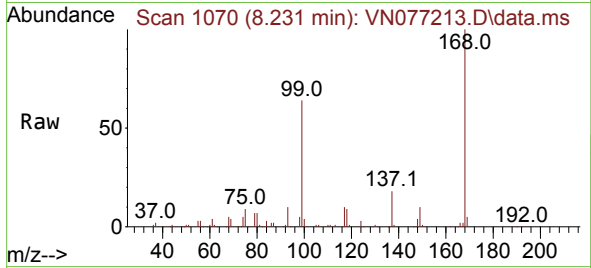




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

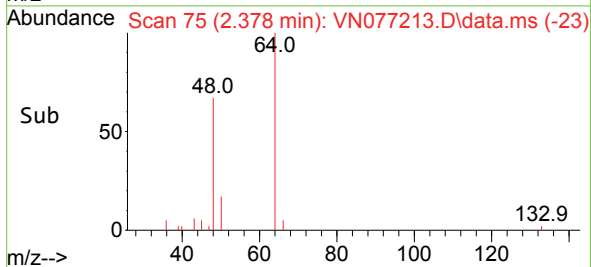
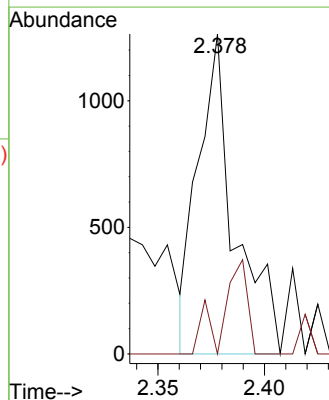
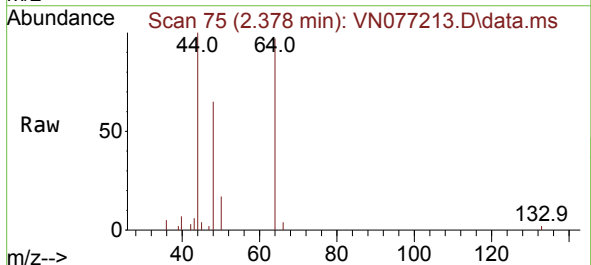
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

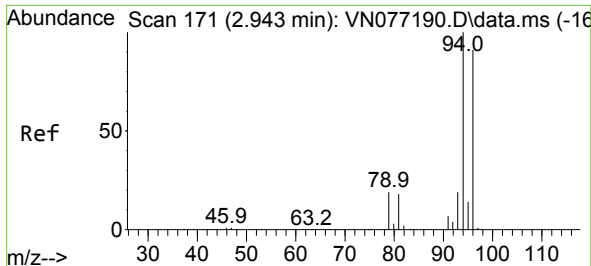
Tgt Ion:168 Resp: 426267
Ion Ratio Lower Upper
168 100
99 64.3 48.6 73.0



#3
Chloromethane
Concen: 0.242 ug/l
RT: 2.378 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 50 Resp: 1510
Ion Ratio Lower Upper
50 100
52 0.0 27.9 41.9#

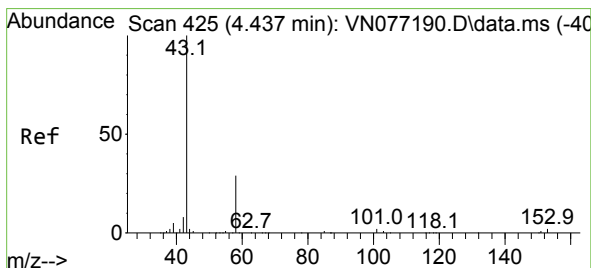
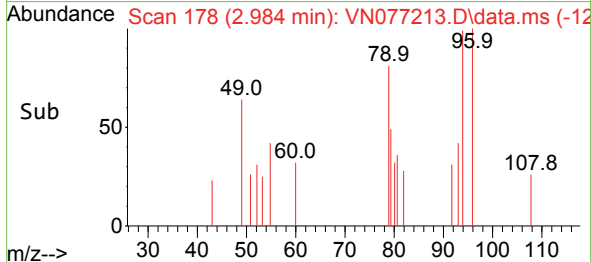
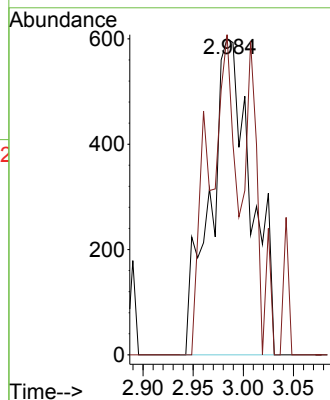
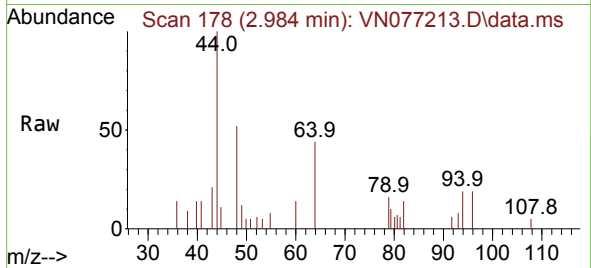




#5
Bromomethane
Concen: 0.303 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

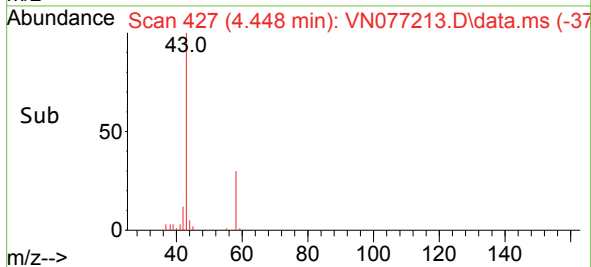
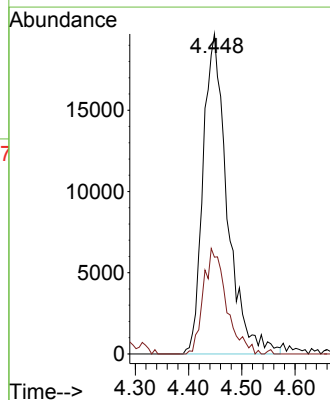
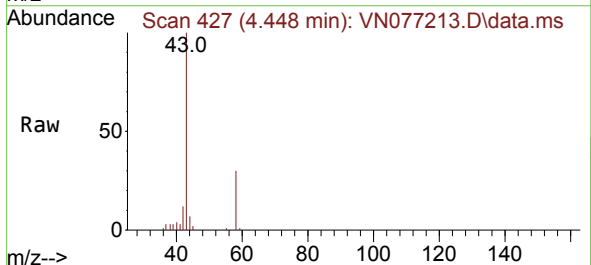
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

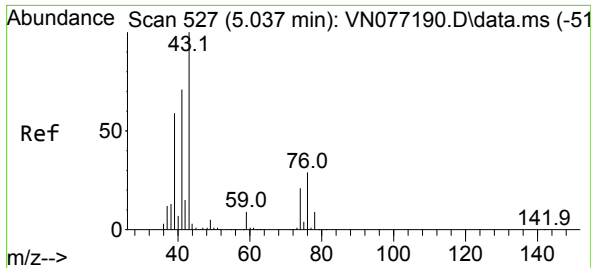
Tgt Ion: 94 Resp: 1703
Ion Ratio Lower Upper
94 100
96 101.3 79.0 118.6



#16
Acetone
Concen: 25.101 ug/l
RT: 4.448 min Scan# 427
Delta R.T. 0.011 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 43 Resp: 62205
Ion Ratio Lower Upper
43 100
58 30.3 28.2 42.2

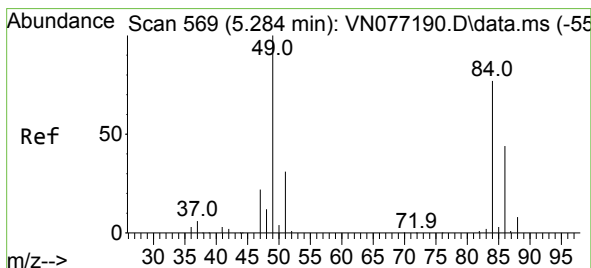
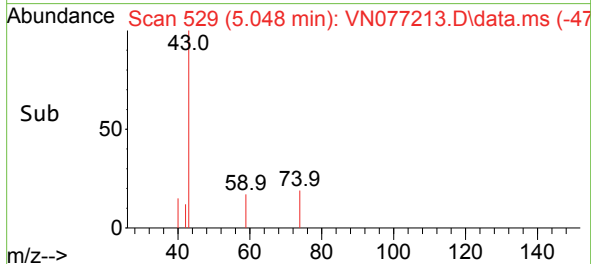
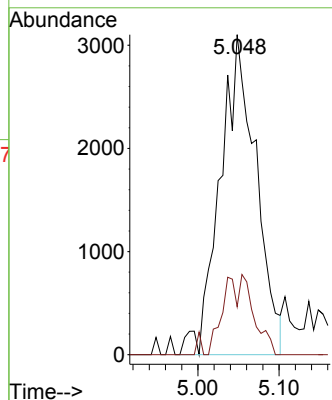
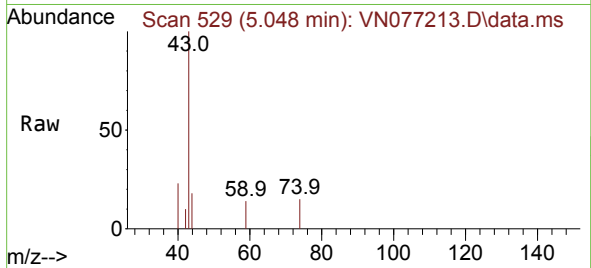




#18
Methyl Acetate
Concen: 0.966 ug/l
RT: 5.048 min Scan# 511
Delta R.T. 0.011 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

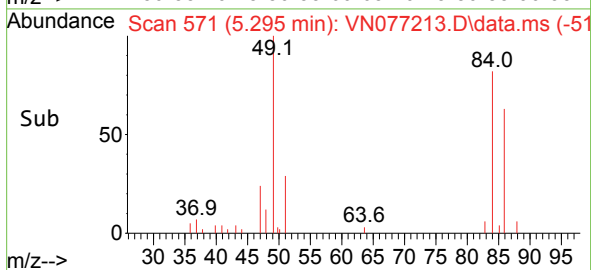
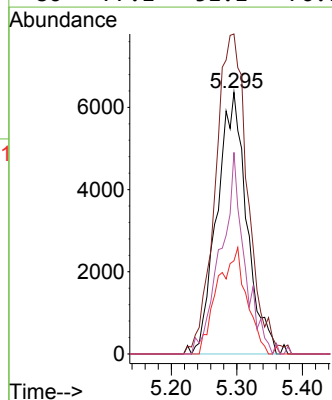
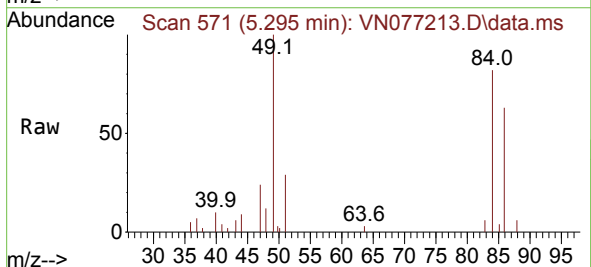
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

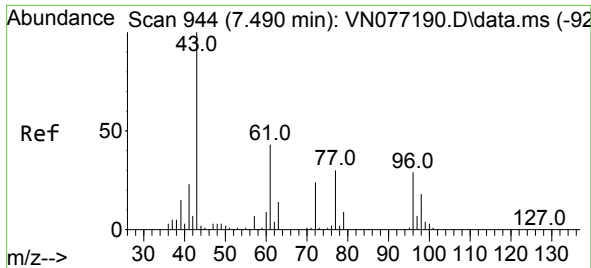
Tgt Ion: 43 Resp: 9576
Ion Ratio Lower Upper
43 100
74 10.6 25.9 38.9#



#20
Methylene Chloride
Concen: 3.632 ug/l
RT: 5.295 min Scan# 571
Delta R.T. 0.011 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 84 Resp: 20043
Ion Ratio Lower Upper
84 100
49 122.4 76.6 114.8#
51 35.6 25.4 38.2
86 77.1 51.1 76.7#

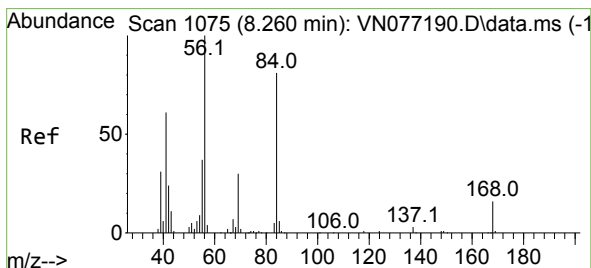
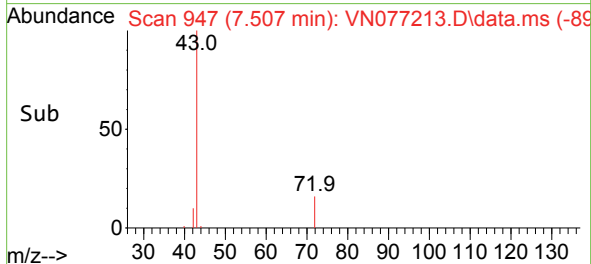
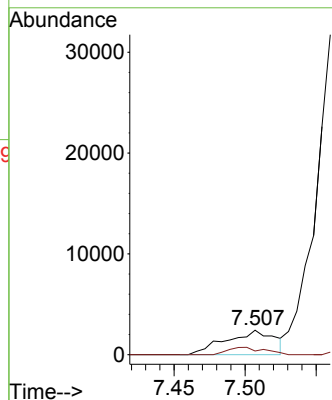
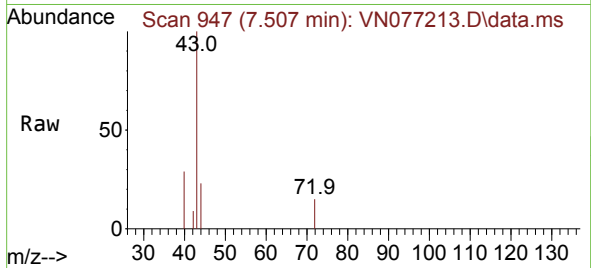




#25
2-Butanone
Concen: 1.478 ug/l
RT: 7.507 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

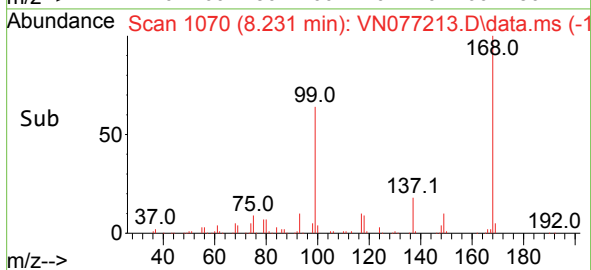
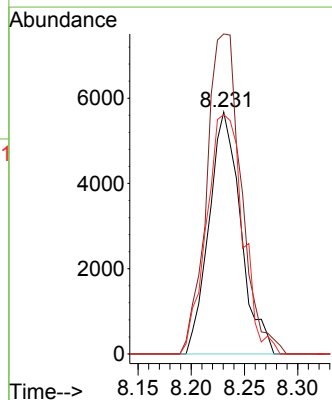
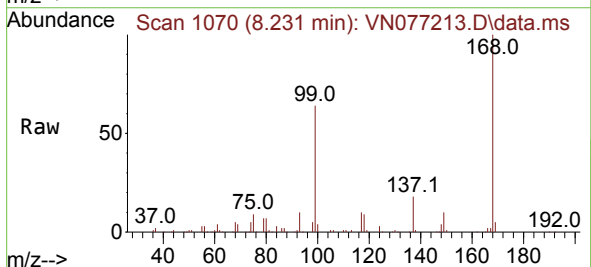
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PB151668ZHE#04

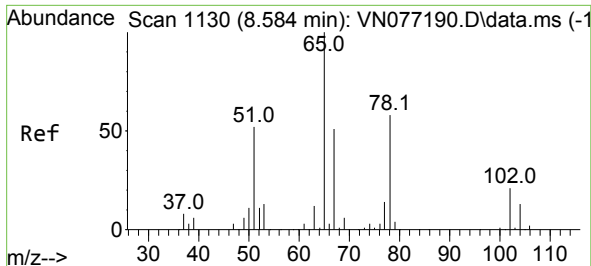
Tgt Ion: 43 Resp: 5727
Ion Ratio Lower Upper
43 100
72 14.9 28.8 43.2#



#31
Cyclohexane
Concen: 1.265 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 56 Resp: 11713
Ion Ratio Lower Upper
56 100
69 132.3 27.0 40.6#
84 98.9 82.9 124.3





#33

1,2-Dichloroethane-d4

Concen: 48.050 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

Instrument :

MSVOA_N

ClientSampleId :

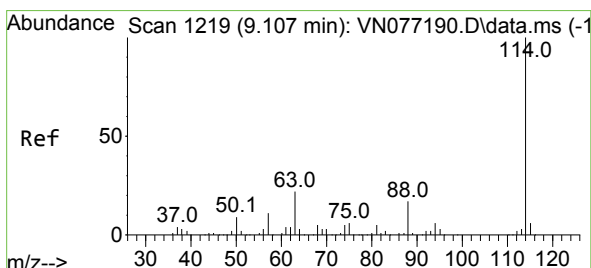
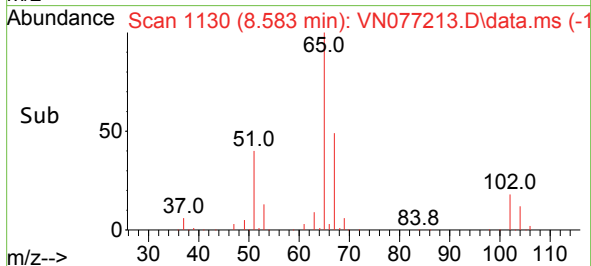
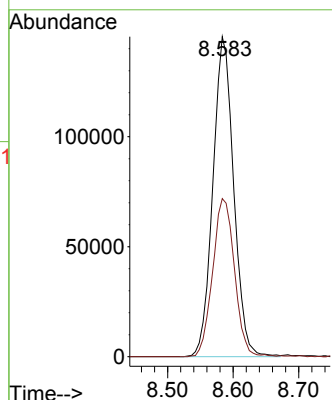
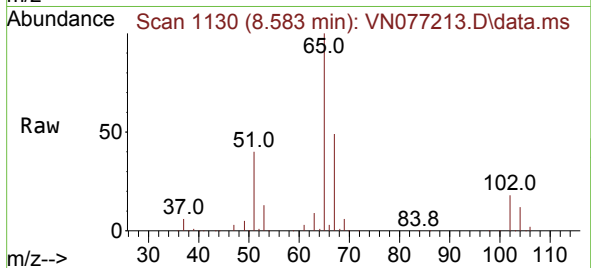
PB151668ZHE#04

Tgt Ion: 65 Resp: 320247

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

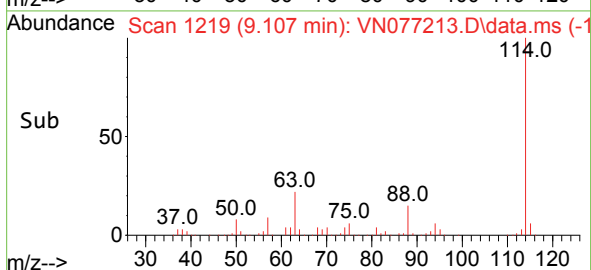
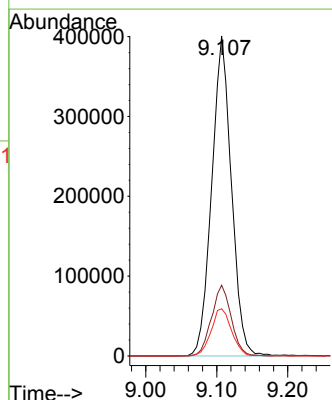
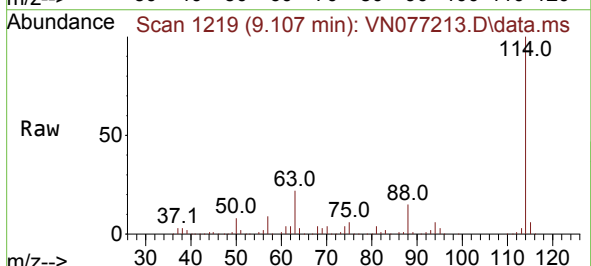
Tgt Ion: 114 Resp: 770613

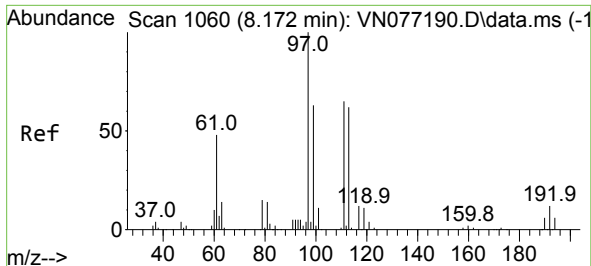
Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.6

88 14.8 0.0 28.6

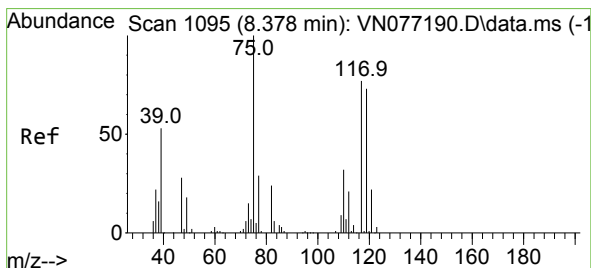
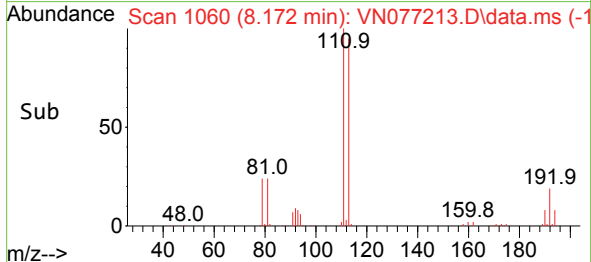
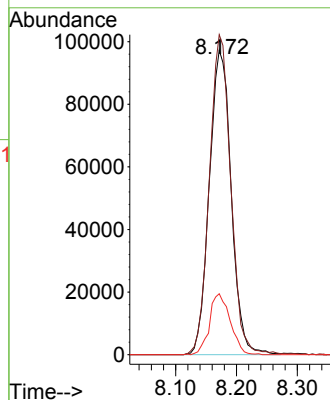
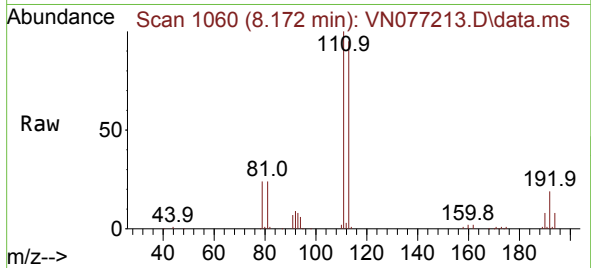




#35
Dibromofluoromethane
Concen: 46.533 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

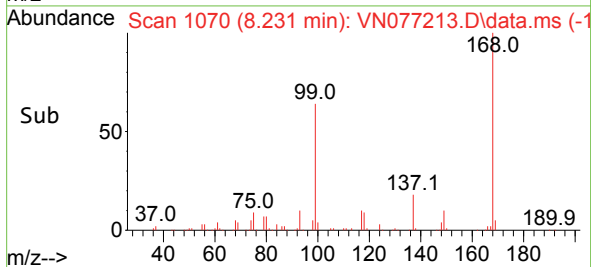
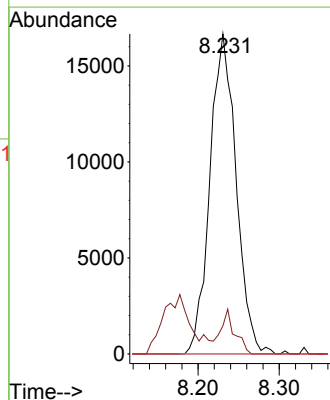
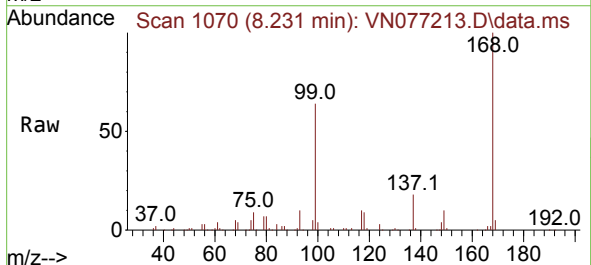
Instrument :
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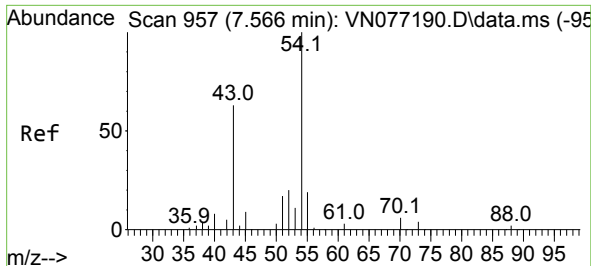
Tgt Ion:113 Resp: 243319
Ion Ratio Lower Upper
113 100
111 102.8 81.8 122.8
192 19.0 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.135 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 75 Resp: 37372
Ion Ratio Lower Upper
75 100
110 7.4 18.9 56.9#
77 0.0 24.9 37.3#

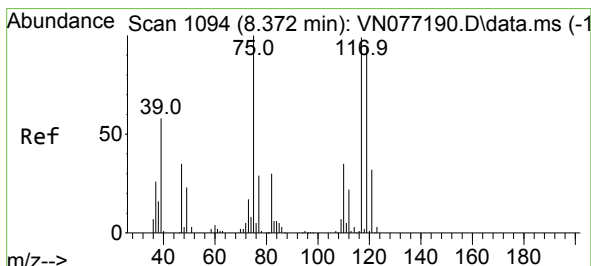
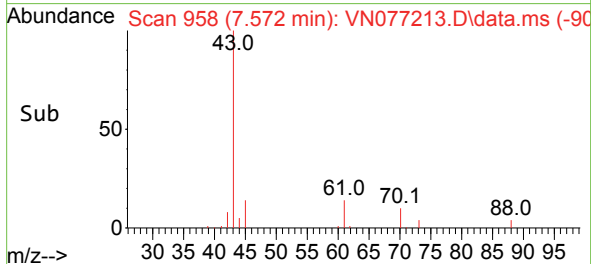
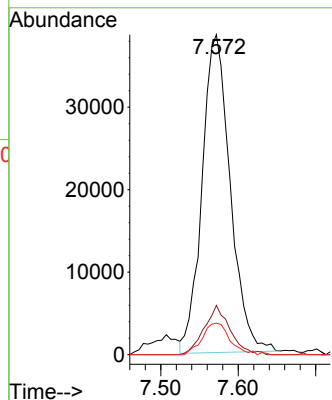
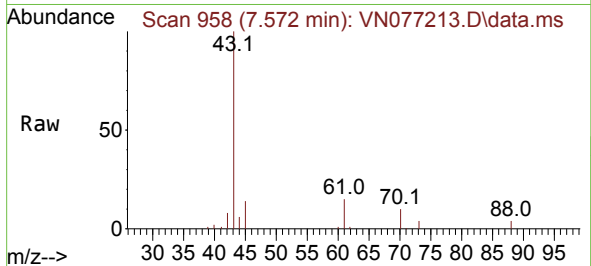




#37
Ethyl Acetate
Concen: 12.009 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

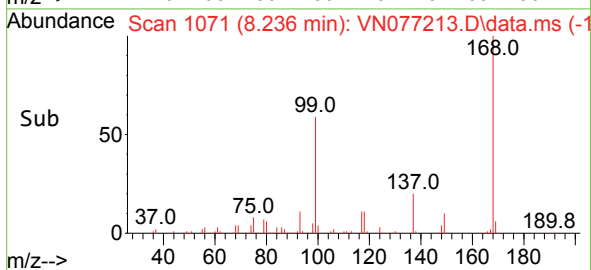
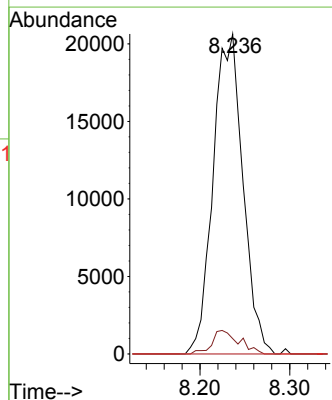
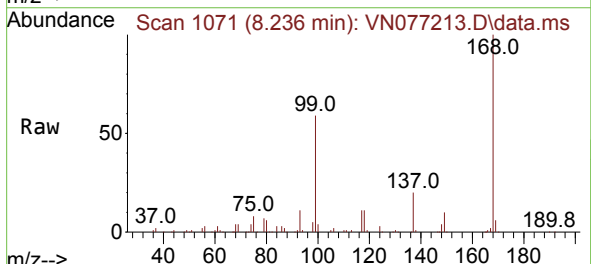
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

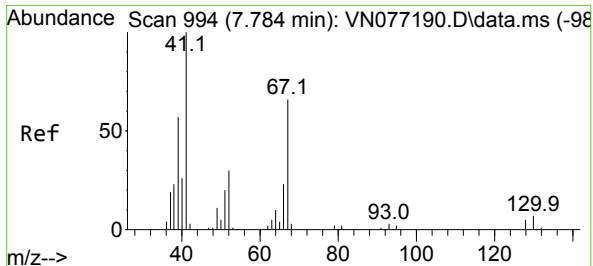
Tgt Ion: 43 Resp: 97416
Ion Ratio Lower Upper
43 100
61 14.2 13.5 20.3
70 9.8 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.437 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 117 Resp: 47496
Ion Ratio Lower Upper
117 100
119 4.8 76.9 115.3#
121 0.0 23.2 34.8#

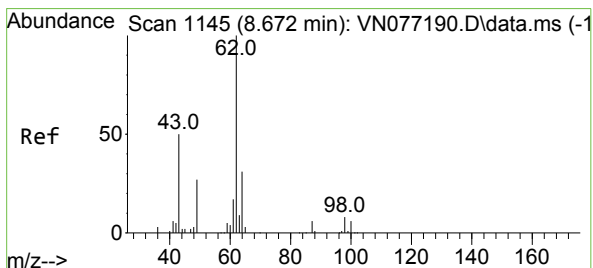
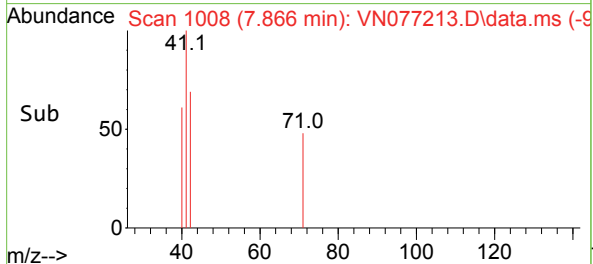
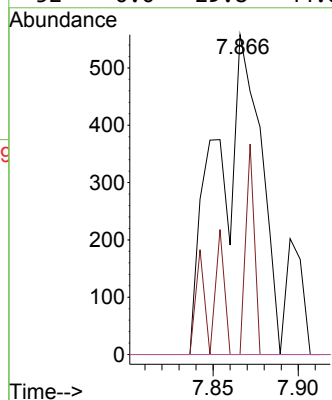
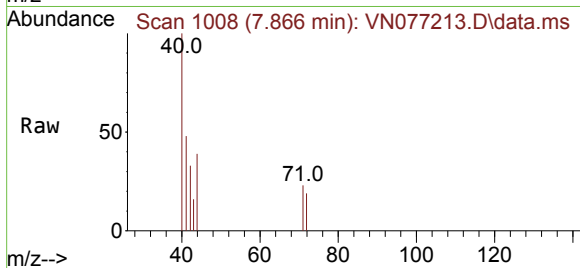




#41
Methacrylonitrile
Concen: 0.226 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.082 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

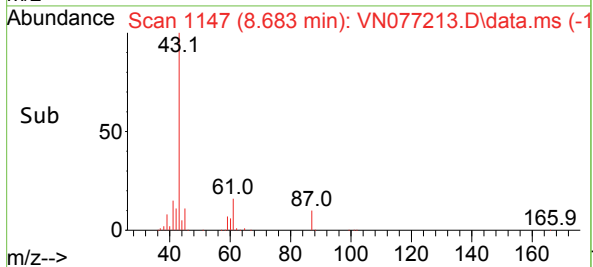
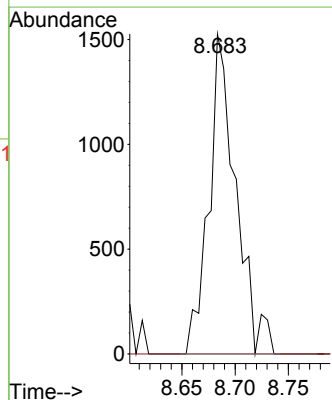
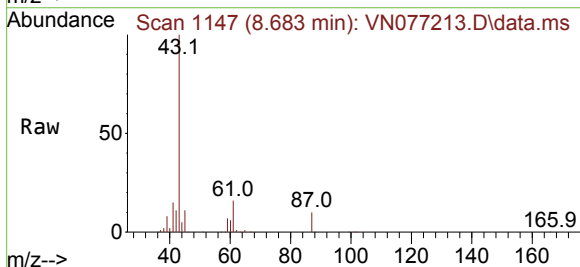
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

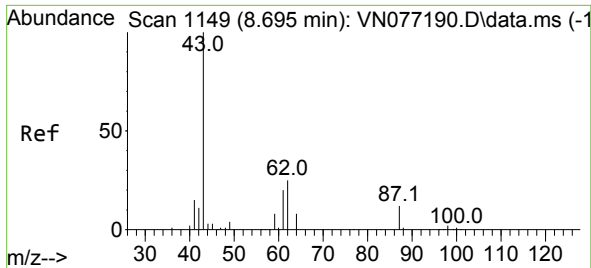
Tgt Ion:	41	Resp:	1000
Ion	Ratio	Lower	Upper
41	100		
39	13.0	43.4	65.0#
67	0.0	78.6	118.0#
52	0.0	29.8	44.8#



#42
1,2-Dichloroethane
Concen: 0.320 ug/l
RT: 8.683 min Scan# 1147
Delta R.T. 0.011 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion:	62	Resp:	2687
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	21.8

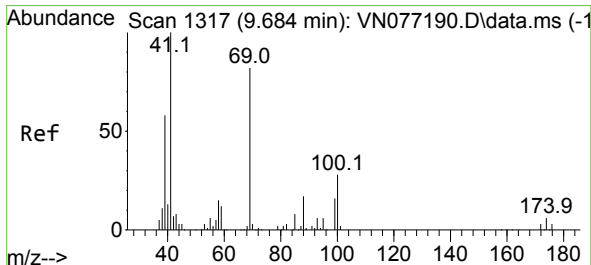
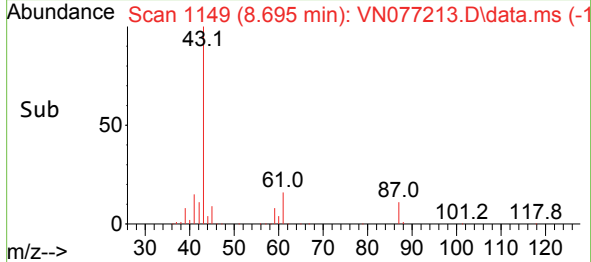
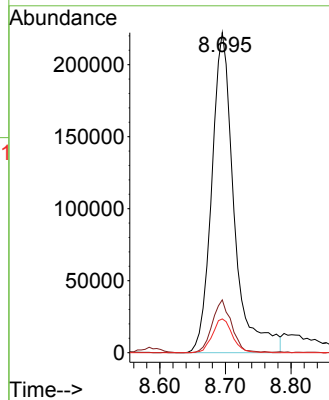
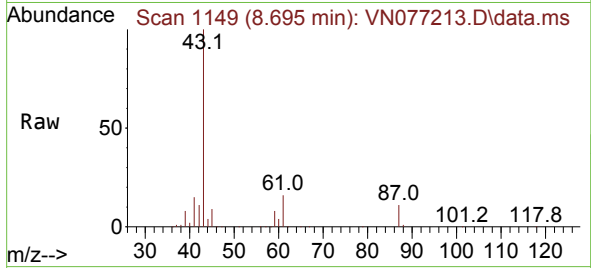




#43
Isopropyl Acetate
Concen: 40.247 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

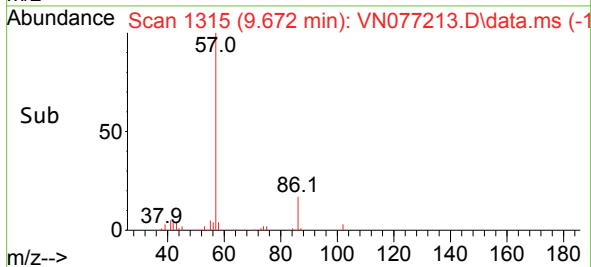
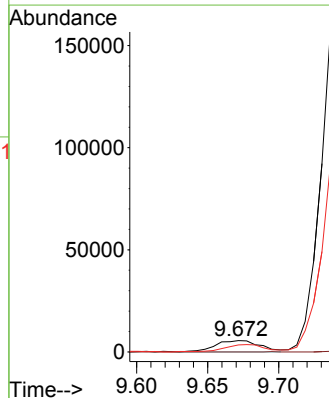
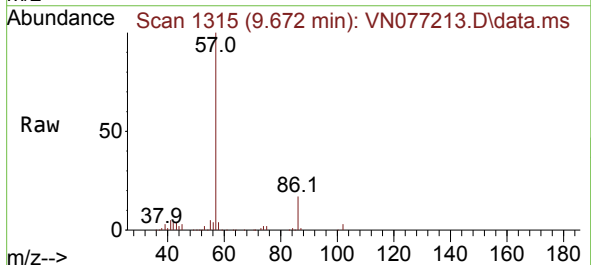
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

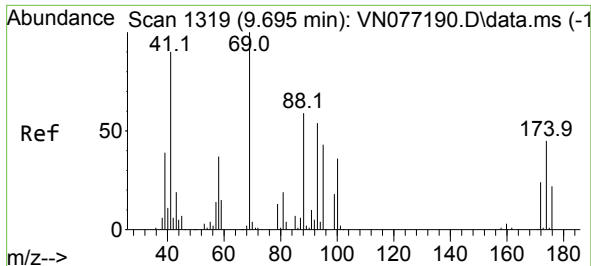
Tgt Ion: 43 Resp: 526707
Ion Ratio Lower Upper
43 100
61 14.2 26.2 39.2#
87 9.4 14.8 22.2#



#48
Methyl methacrylate
Concen: 1.961 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 41 Resp: 12357
Ion Ratio Lower Upper
41 100
69 0.0 92.6 139.0#
39 58.9 51.4 77.0





#49

1,4-Dioxane

Concen: 0.558 ug/l

RT: 9.677 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#04

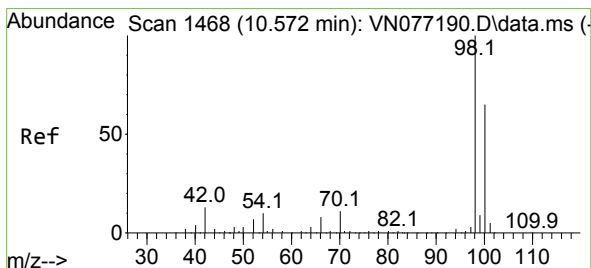
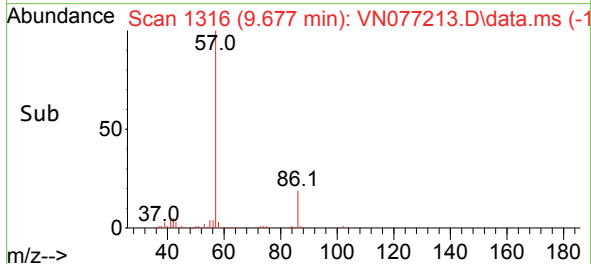
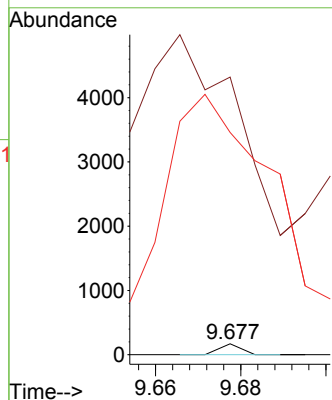
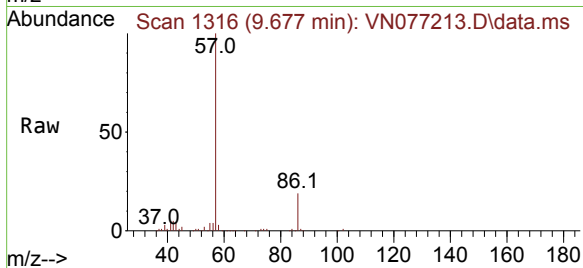
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 15.3 22.9#

58 13708.3 47.6 71.4#



#50

Toluene-d8

Concen: 49.498 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077213.D

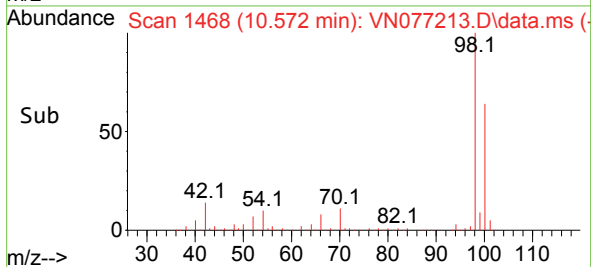
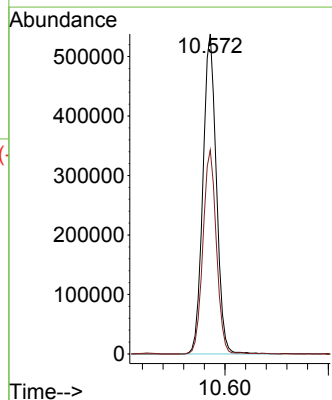
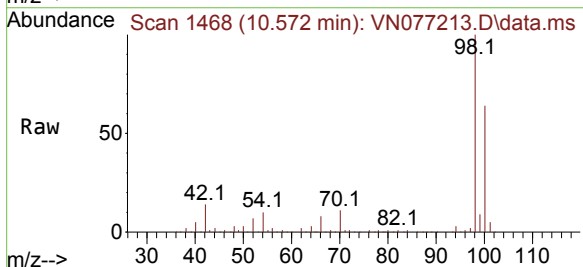
Acq: 27 Mar 2023 20:16

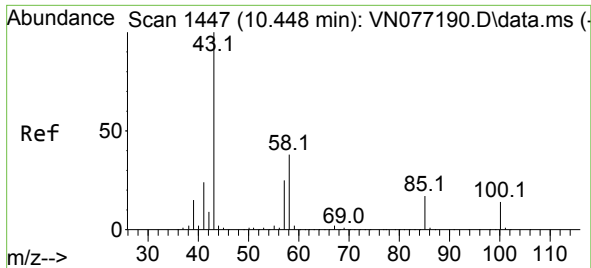
Tgt Ion: 98 Resp: 969823

Ion Ratio Lower Upper

98 100

100 63.8 52.8 79.2

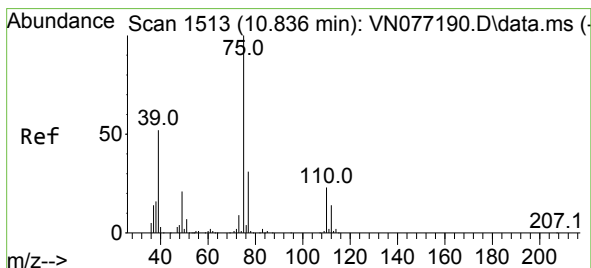
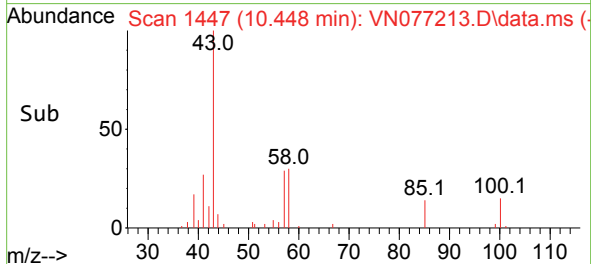
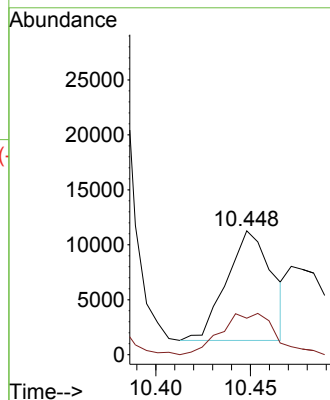
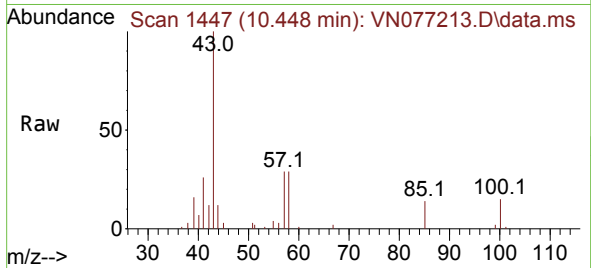




#51
4-Methyl-2-Pentanone
Concen: 2.016 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

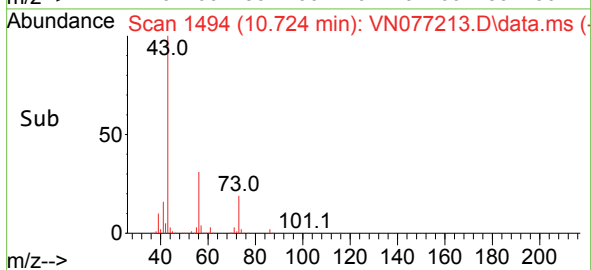
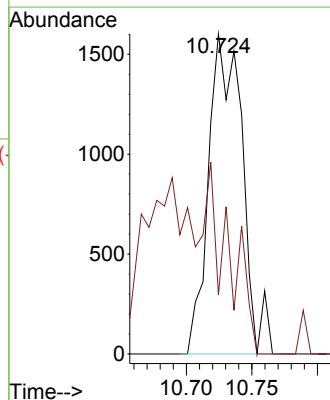
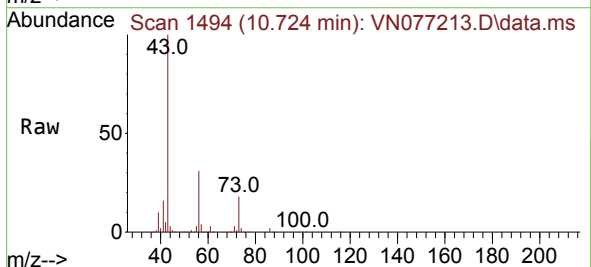
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

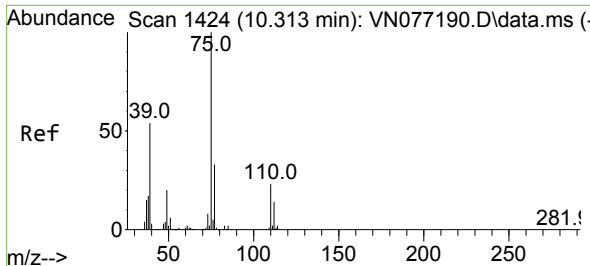
Tgt Ion: 43 Resp: 16599
Ion Ratio Lower Upper
43 100
58 45.7 37.4 56.0



#53
t-1,3-Dichloropropene
Concen: 0.365 ug/l
RT: 10.724 min Scan# 1494
Delta R.T. -0.112 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 75 Resp: 2853
Ion Ratio Lower Upper
75 100
77 18.4 25.0 37.6#

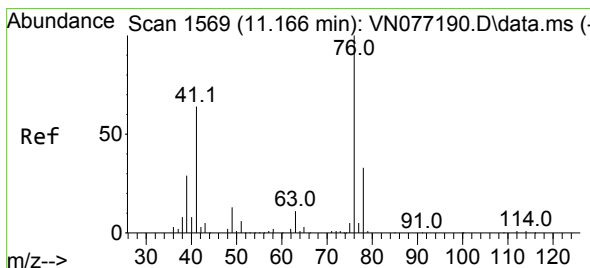
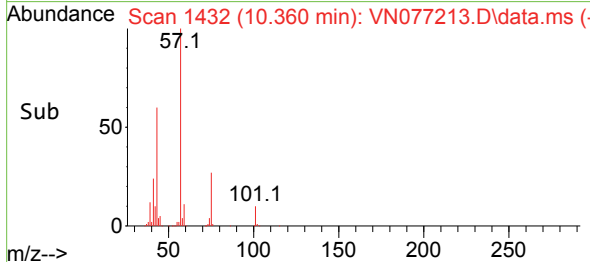
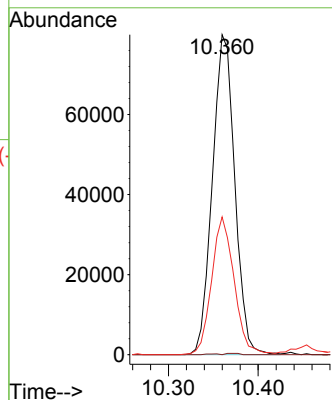
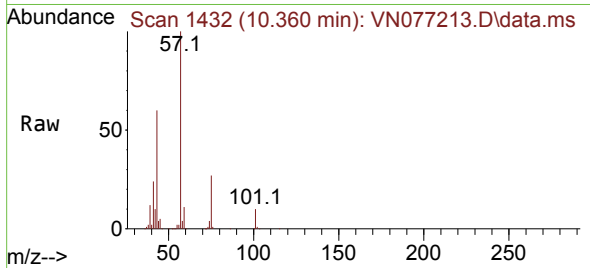




#54
 cis-1,3-Dichloropropene
 Concen: 16.178 ug/l
 RT: 10.360 min Scan# 1424
 Delta R.T. 0.047 min
 Lab File: VN077213.D
 Acq: 27 Mar 2023 20:16

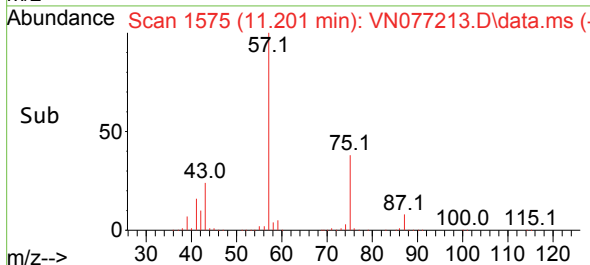
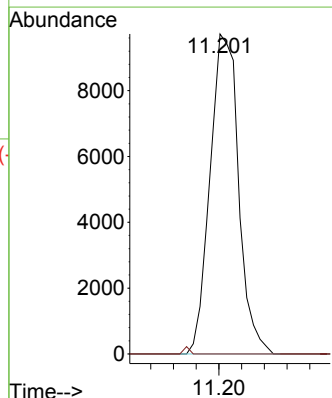
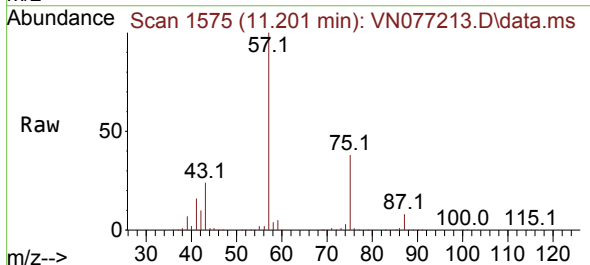
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#04

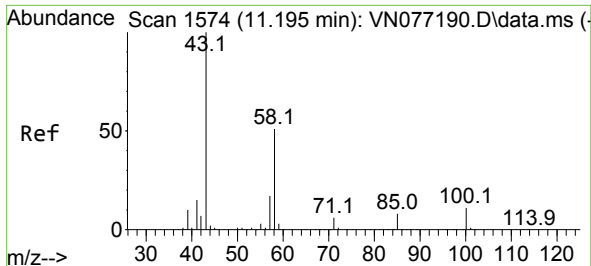
Tgt Ion: 75 Resp: 138530
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 43.1 29.7 44.5



#57
 1,3-Dichloropropane
 Concen: 1.783 ug/l
 RT: 11.201 min Scan# 1575
 Delta R.T. 0.035 min
 Lab File: VN077213.D
 Acq: 27 Mar 2023 20:16

Tgt Ion: 76 Resp: 16975
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

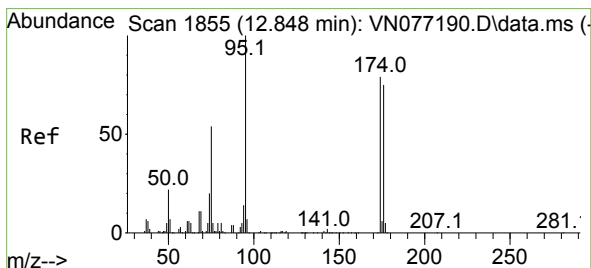
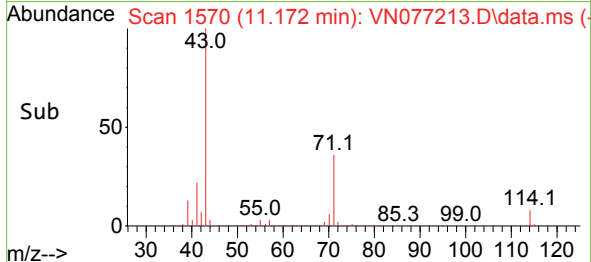
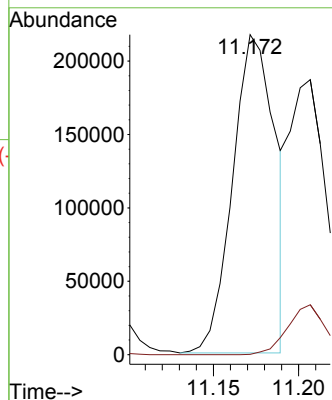
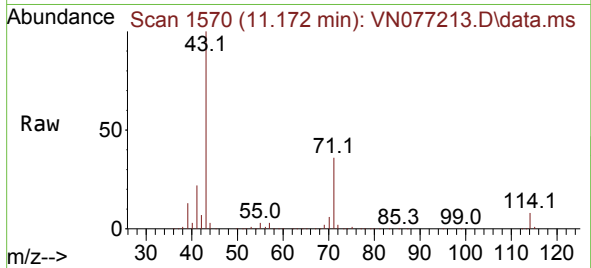




#59
2-Hexanone
Concen: 63.365 ug/l
RT: 11.172 min Scan# 11172
Delta R.T. -0.024 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

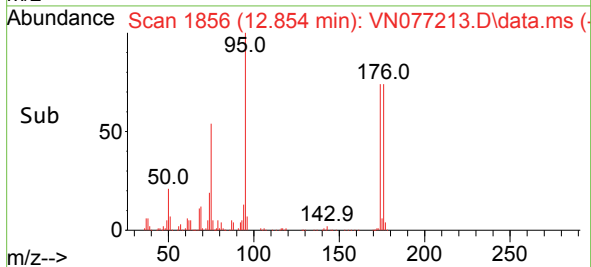
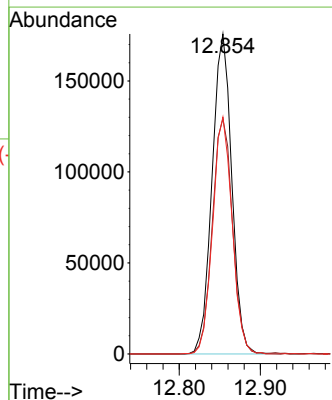
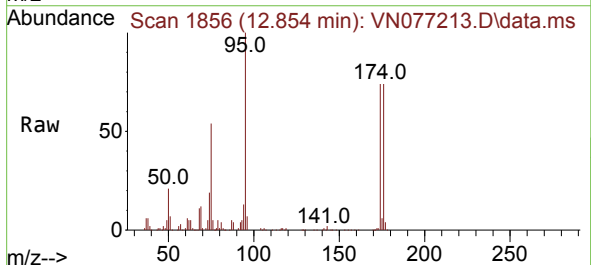
Instrument :
MSVOA_N
ClientSampleId :
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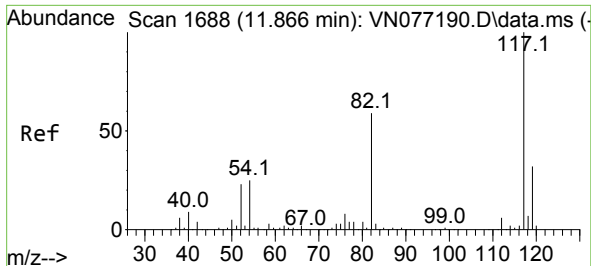
Tgt Ion: 43 Resp: 374978
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 45.979 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion: 95 Resp: 295660
Ion Ratio Lower Upper
95 100
174 75.5 0.0 162.4
176 73.5 0.0 157.4

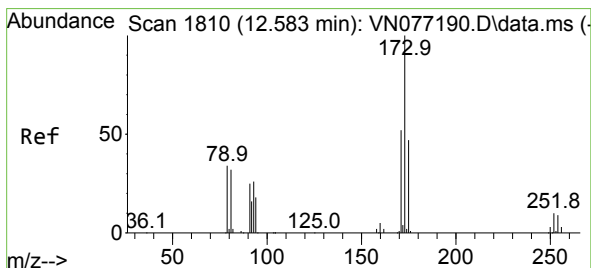
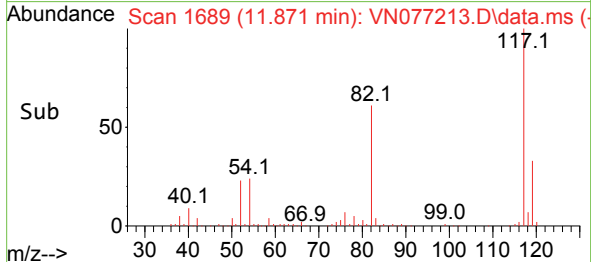
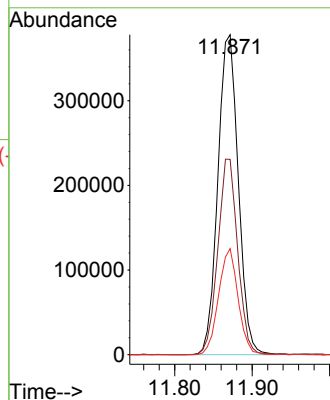
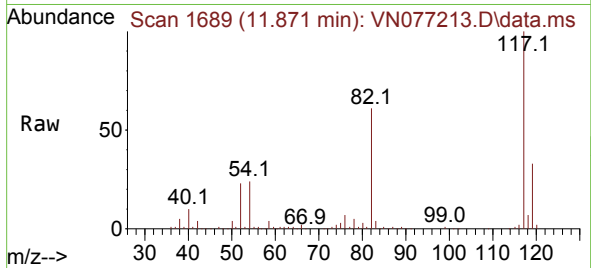




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

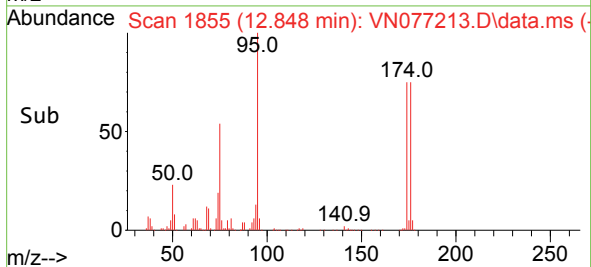
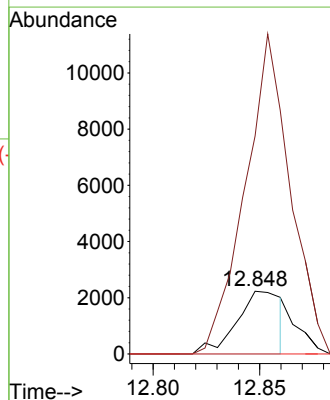
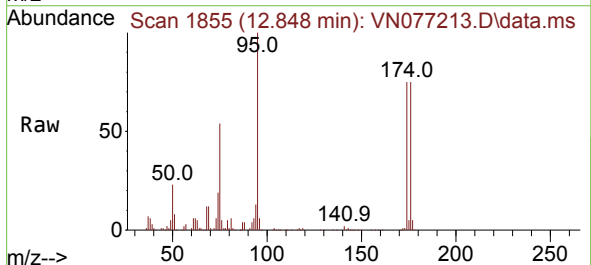
Instrument :
MSVOA_N
ClientSampleId :
PB151668ZHE#04

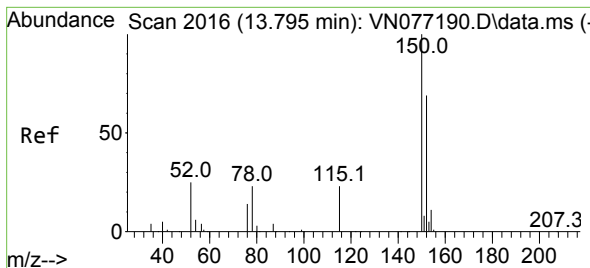
Tgt Ion:117 Resp: 692119
Ion Ratio Lower Upper
117 100
82 61.1 43.5 65.3
119 33.1 25.5 38.3



#71
Bromoform
Concen: 0.869 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN077213.D
Acq: 27 Mar 2023 20:16

Tgt Ion:173 Resp: 3278
Ion Ratio Lower Upper
173 100
175 408.9 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: VN077213.D

Acq: 27 Mar 2023 20:16

Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#04

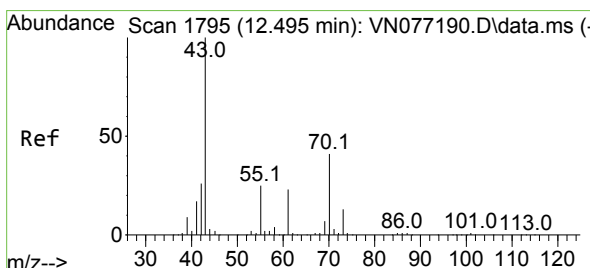
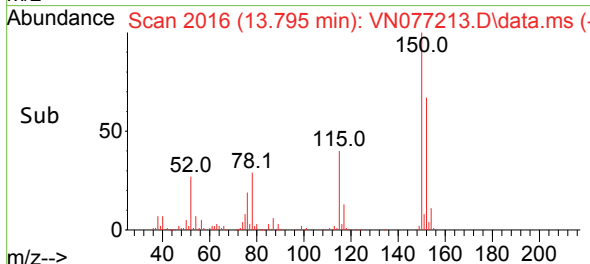
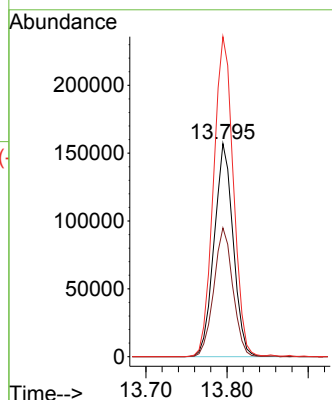
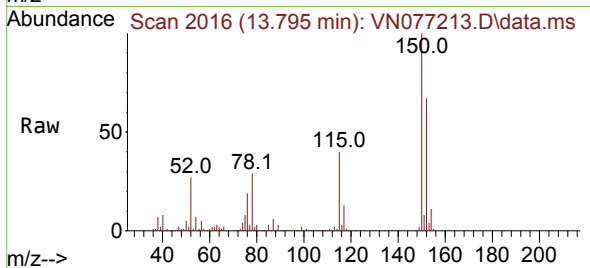
Tgt Ion:152 Resp: 255693

Ion Ratio Lower Upper

152 100

115 60.4 30.3 90.9

150 156.4 0.0 353.6



#74

N-ethyl acetate

Concen: 0.344 ug/l

RT: 12.495 min Scan# 1795

Delta R.T. -0.000 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

Tgt Ion: 43 Resp: 3020

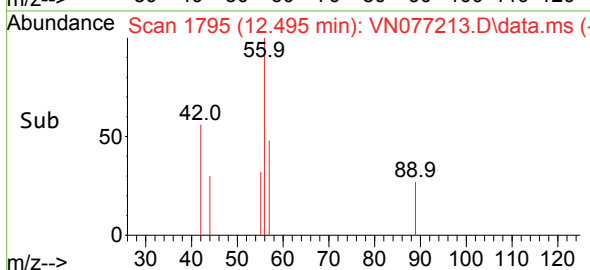
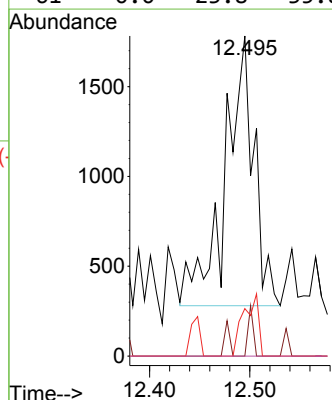
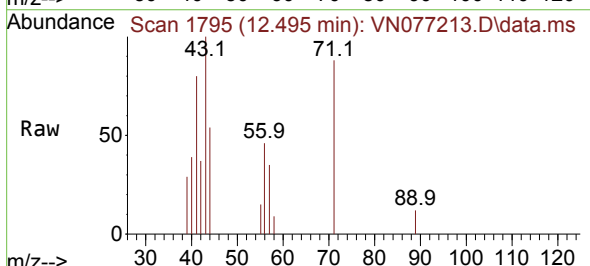
Ion Ratio Lower Upper

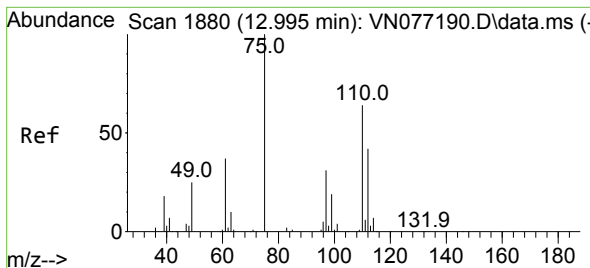
43 100

70 3.3 46.8 70.2#

55 12.0 23.4 35.2#

61 0.0 23.8 35.8#





#76

1,2,3-Trichloropropane

Concen: 30.936 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

Instrument :

MSVOA_N

ClientSampleId :

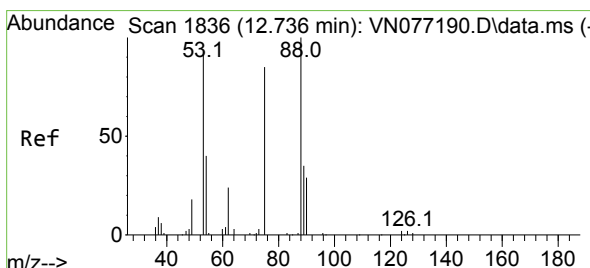
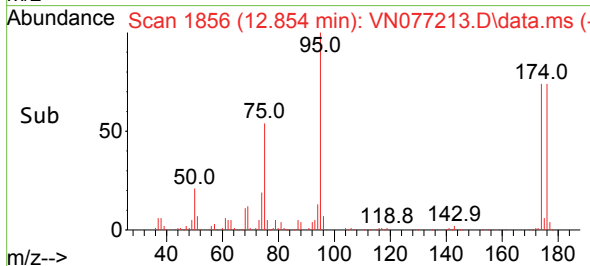
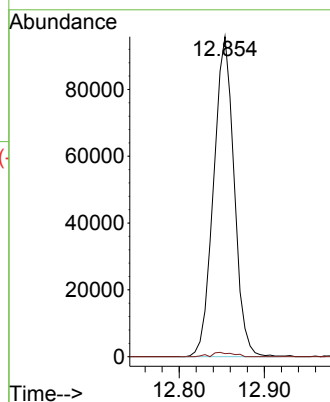
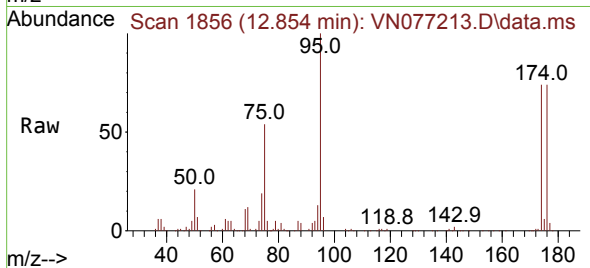
PB151668ZHE#04

Tgt Ion: 75 Resp: 160463

Ion Ratio Lower Upper

75 100

77 1.5 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.162 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.118 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

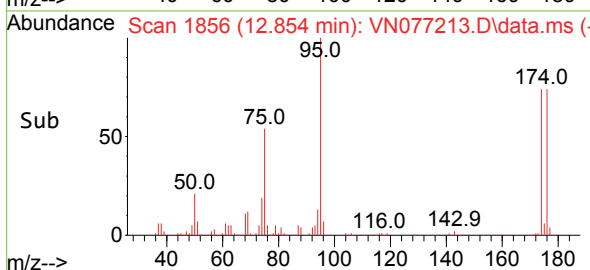
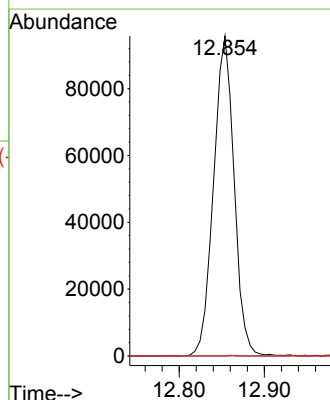
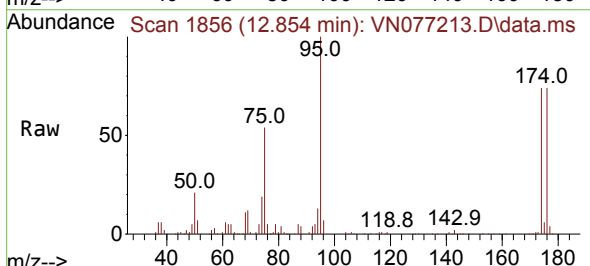
Tgt Ion: 75 Resp: 160463

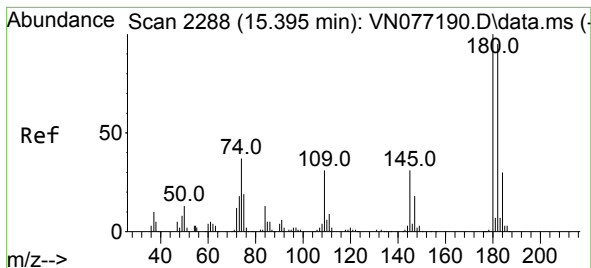
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 39.5 59.3#





#93

1,2,4-Trichlorobenzene

Concen: 4.455 ug/l

RT: 15.407 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

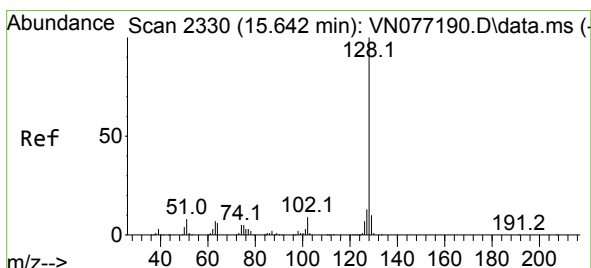
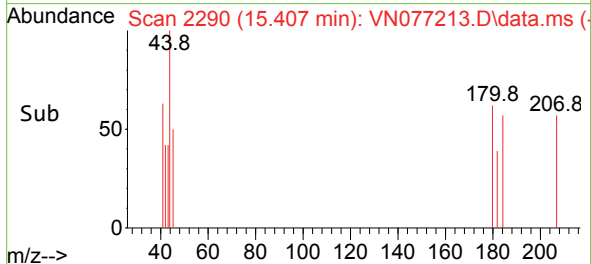
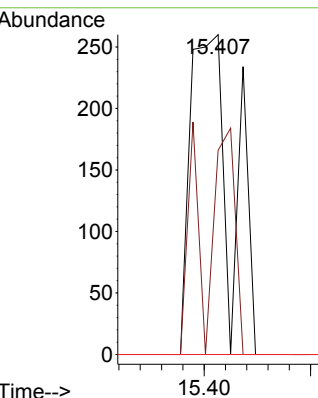
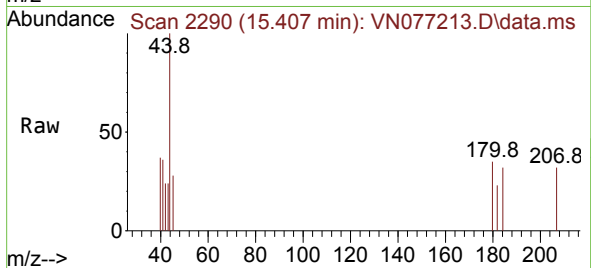
Instrument :

MSVOA_N

ClientSampleId :

PB151668ZHE#04

Tgt Ion:180	Resp:	350
Ion Ratio	Lower	Upper
180	100	
182	35.4	47.4 142.2#
145	0.0	15.8 47.3#



#95

Naphthalene

Concen: 5.987 ug/l

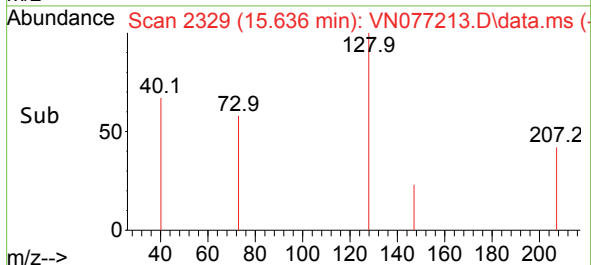
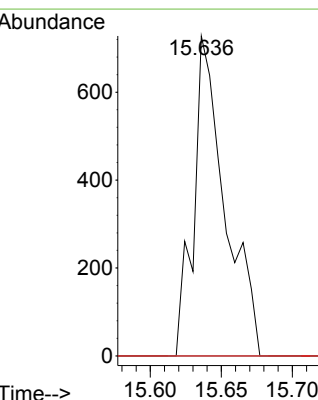
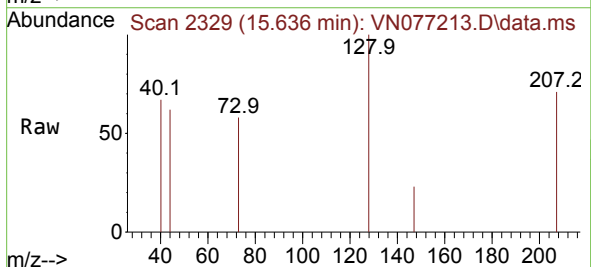
RT: 15.636 min Scan# 2329

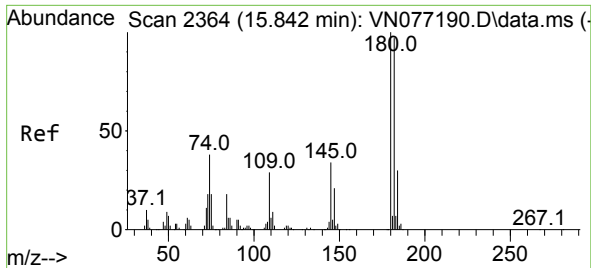
Delta R.T. -0.006 min

Lab File: VN077213.D

Acq: 27 Mar 2023 20:16

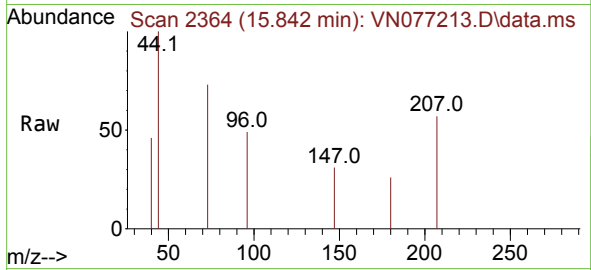
Tgt Ion:128	Resp:	1119
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.2 15.4#
129	0.0	8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.661 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN077213.D
 Acq: 27 Mar 2023 20:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151668ZHE#04



Tgt Ion:180 Resp: 56
 Ion Ratio Lower Upper
 180 100
 182 335.7 47.7 143.1#
 145 0.0 17.0 51.0#

