

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072723\
 Data File : VN078667.D
 Acq On : 27 Jul 2023 18:09
 Operator : JC\MD
 Sample : PB154443ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 28 01:10:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

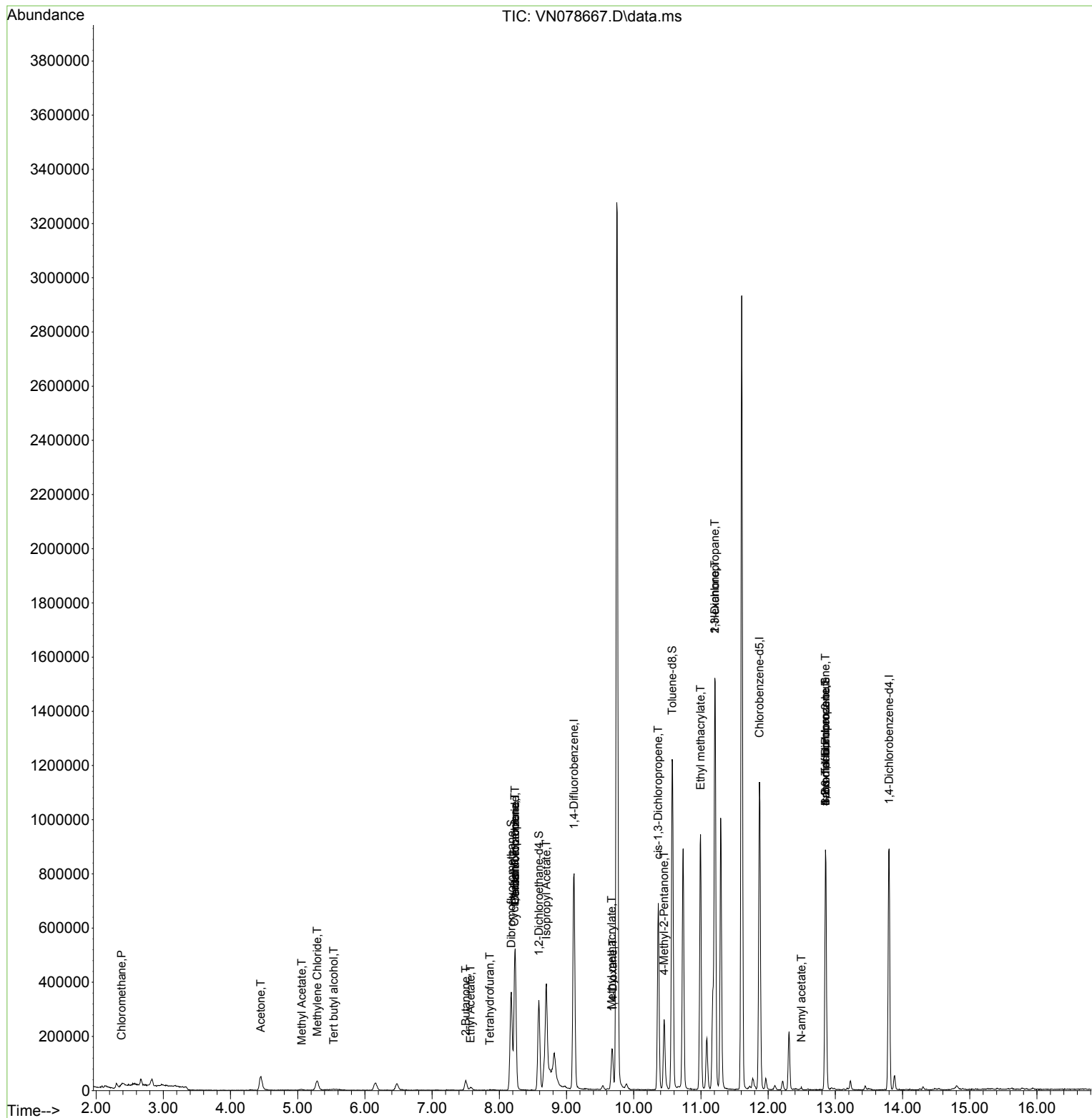
Internal Standards						
1) Pentafluorobenzene	8.236	168	400672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	729576	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	695957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	255475	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	258127	48.056	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.120%		
35) Dibromofluoromethane	8.177	113	261121	52.724	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.440%		
50) Toluene-d8	10.571	98	891630	47.657	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.320%		
62) 4-Bromofluorobenzene	12.853	95	298309	51.764	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.520%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	2359	0.442	ug/l #	87
5) Bromomethane	2.971	94	2798	Below Cal	#	75
6) Chloroethane	3.077	64	587	Below Cal	#	43
11) Tert butyl alcohol	5.536	59	665	0.803	ug/l #	72
16) Acetone	4.448	43	94259	56.334	ug/l	100
18) Methyl Acetate	5.059	43	6507	0.919	ug/l #	75
20) Methylene Chloride	5.289	84	27592	4.640	ug/l	99
25) 2-Butanone	7.500	43	54748	20.786	ug/l	91
29) Tetrahydrofuran	7.859	42	748	0.433	ug/l #	85
31) Cyclohexane	8.224	56	9623	1.326	ug/l #	47
36) 1,1-Dichloropropene	8.230	75	29481	4.123	ug/l #	50
37) Ethyl Acetate	7.571	43	17217	2.888	ug/l #	95
38) Carbon Tetrachloride	8.236	117	41037	5.280	ug/l #	14
43) Isopropyl Acetate	8.700	43	516695	52.646	ug/l #	73
48) Methyl methacrylate	9.671	41	9035	1.987	ug/l #	3
49) 1,4-Dioxane	9.688	88	73	0.736	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	176974	30.315	ug/l	90
54) cis-1,3-Dichloropropene	10.365	75	129851	15.707	ug/l #	67
56) Ethyl methacrylate	10.994	69	4848	0.670	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	16774	1.907	ug/l #	43
59) 2-Hexanone	11.206	43	195612	47.147	ug/l #	47
71) Bromoform	12.853	173	2106	0.520	ug/l #	1
74) N-amyl acetate	12.494	43	3137	0.379	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.935	83	513	Below Cal	#	72
76) 1,2,3-Trichloropropane	12.853	75	157192	25.456	ug/l #	1
77) Bromobenzene	12.982	156	267	Below Cal	#	35
81) trans-1,4-Dichloro-2-b...	12.853	75	157192	66.893	ug/l #	15
94) Hexachlorobutadiene	15.512	225	201	Below Cal	#	51

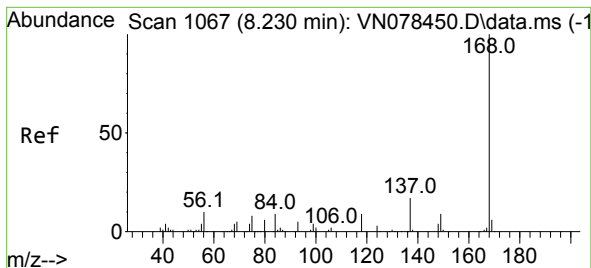
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

Instrument :

MSVOA_N

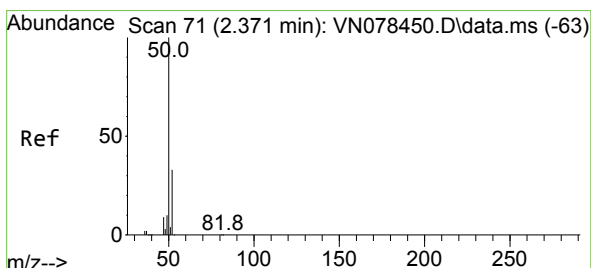
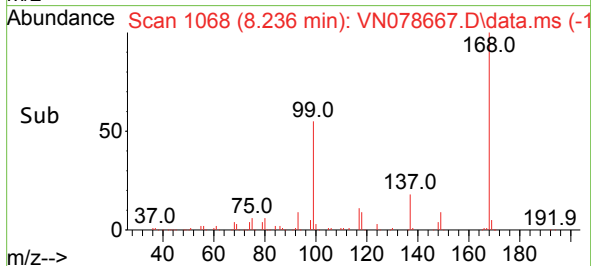
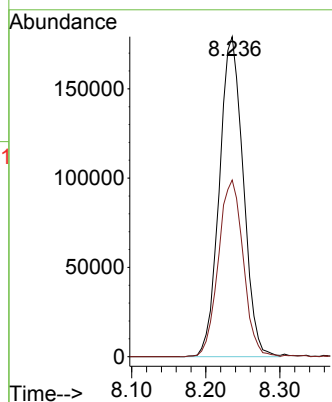
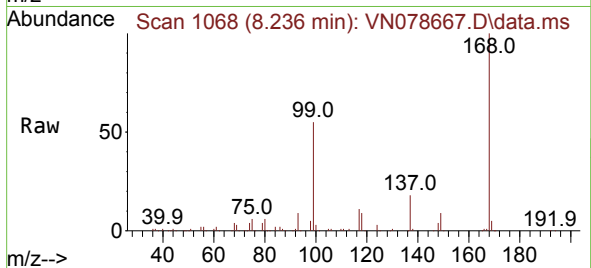
ClientSampleId :

Tgt Ion:168 Resp: 400672

Ion Ratio Lower Upper

168 100

99 55.2 53.0 79.6



#3

Chloromethane

Concen: 0.442 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078667.D

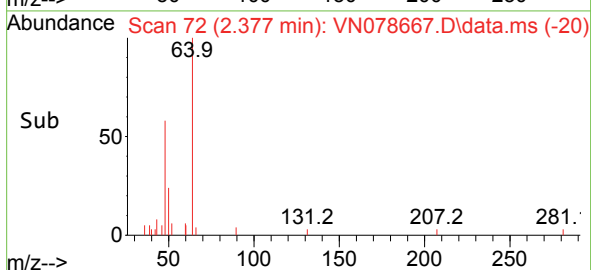
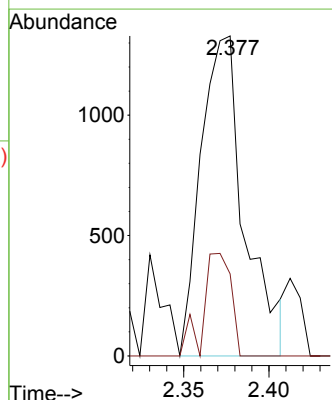
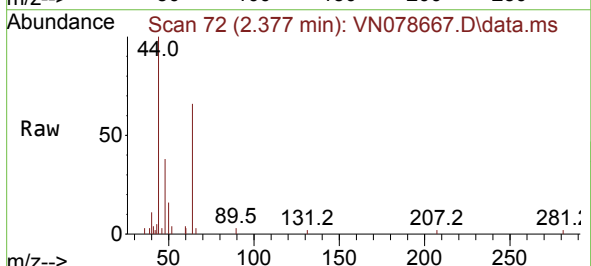
Acq: 27 Jul 2023 18:09

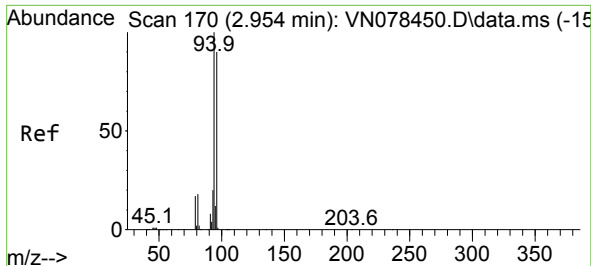
Tgt Ion: 50 Resp: 2359

Ion Ratio Lower Upper

50 100

52 25.7 26.5 39.7#

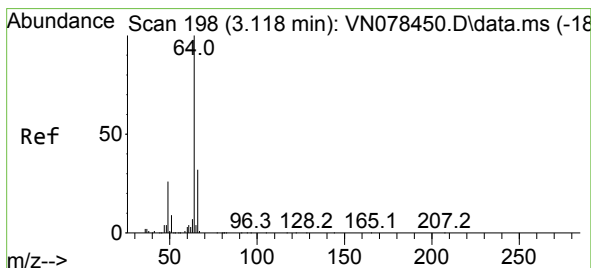
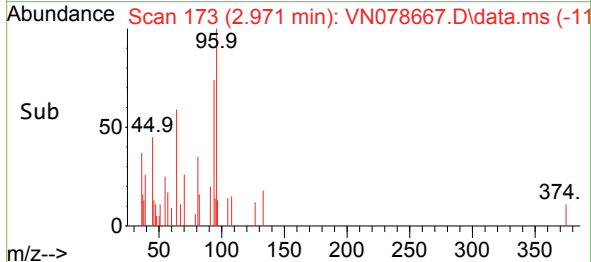
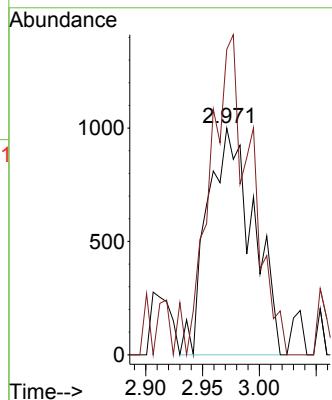
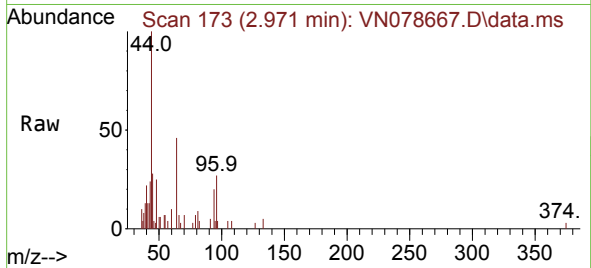




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

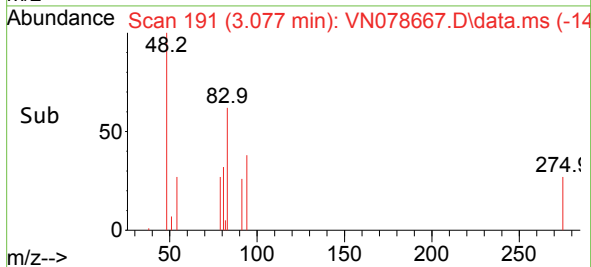
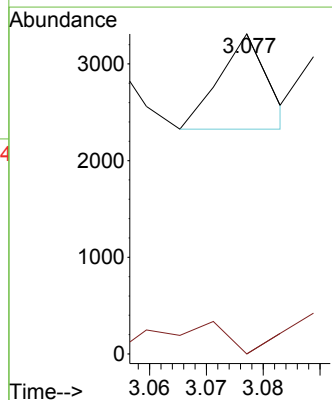
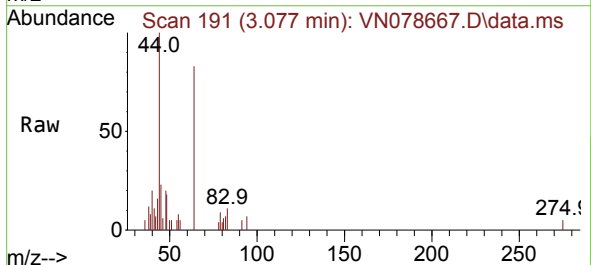
Instrument :
MSVOA_N
ClientSampleId :

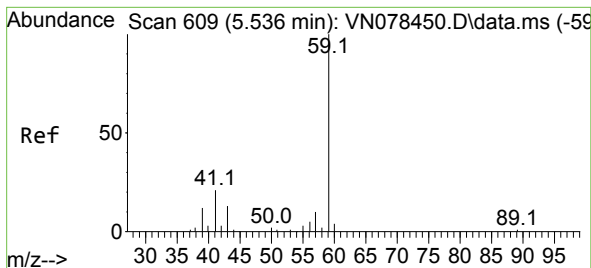
Tgt Ion: 94 Resp: 2798
Ion Ratio Lower Upper
94 100
96 115.4 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.077 min Scan# 191
Delta R.T. -0.041 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion: 64 Resp: 587
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.803 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.000 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

Instrument :

MSVOA_N

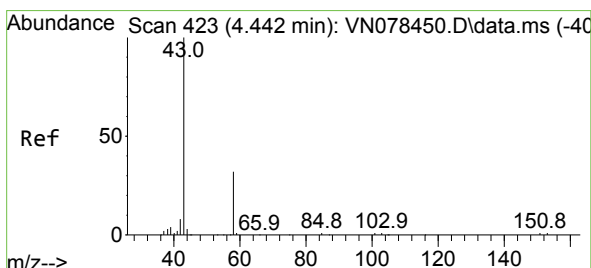
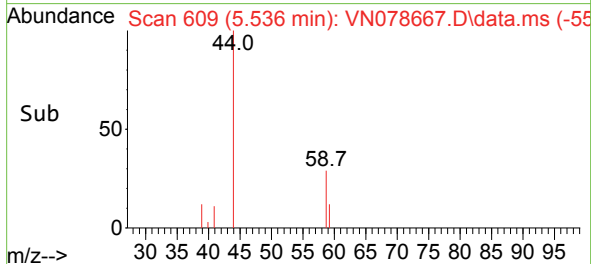
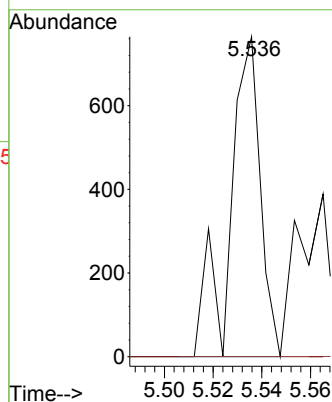
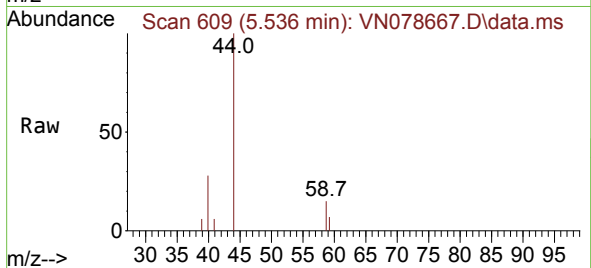
ClientSampleId :

Tgt Ion: 59 Resp: 665

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 56.334 ug/l

RT: 4.448 min Scan# 424

Delta R.T. 0.006 min

Lab File: VN078667.D

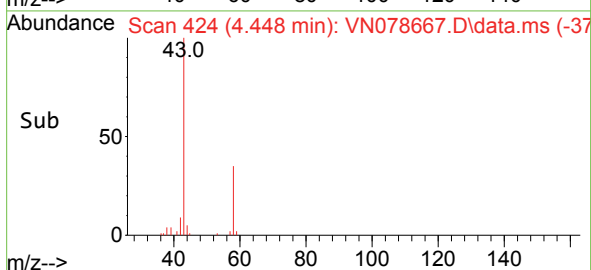
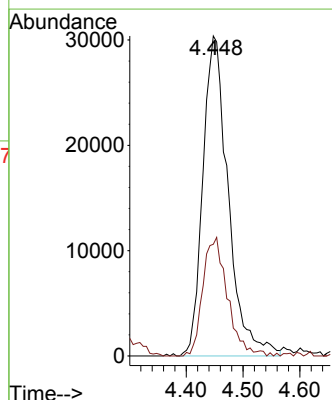
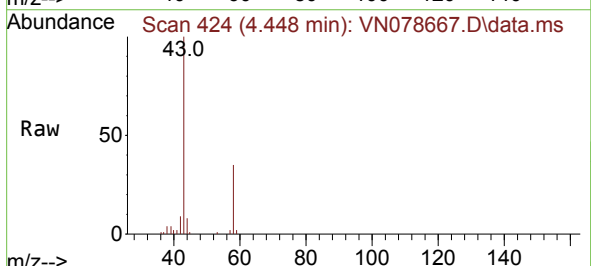
Acq: 27 Jul 2023 18:09

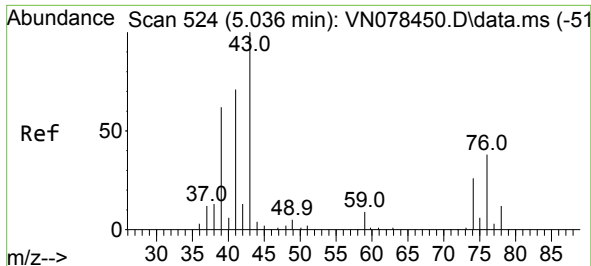
Tgt Ion: 43 Resp: 94259

Ion Ratio Lower Upper

43 100

58 34.9 28.0 42.0

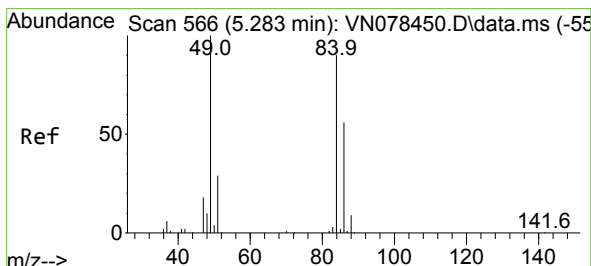
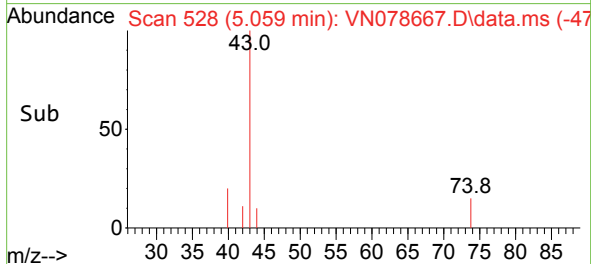
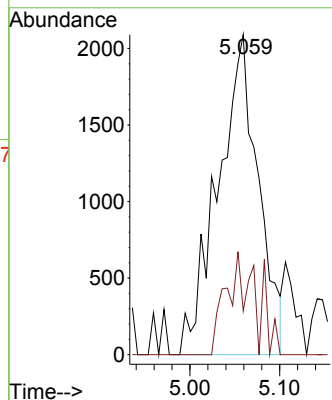
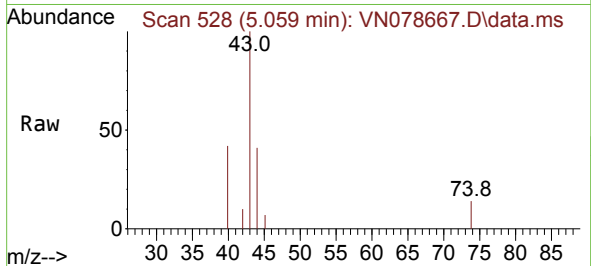




#18
Methyl Acetate
Concen: 0.919 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

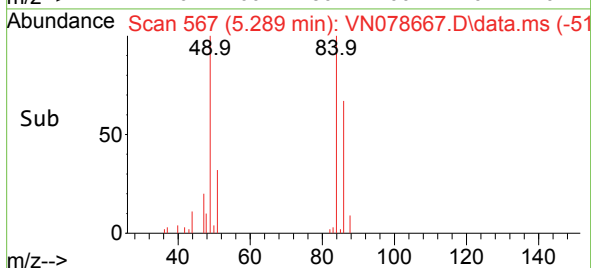
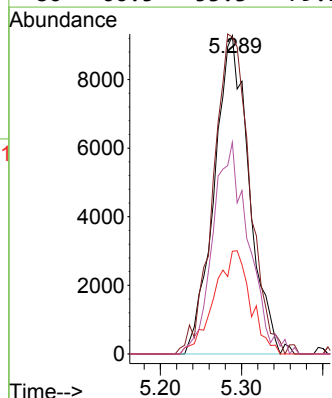
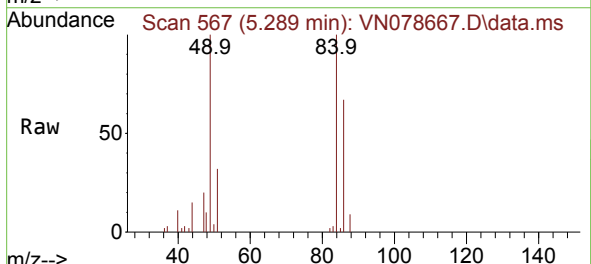
Instrument :
MSVOA_N
ClientSampleId :

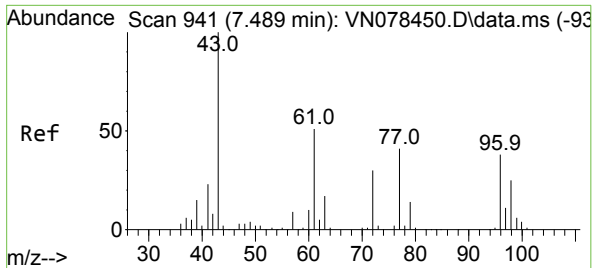
Tgt Ion: 43 Resp: 6507
Ion Ratio Lower Upper
43 100
74 18.9 26.2 39.4#



#20
Methylene Chloride
Concen: 4.640 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion: 84 Resp: 27592
Ion Ratio Lower Upper
84 100
49 97.7 79.7 119.5
51 32.3 25.2 37.8
86 66.5 53.3 79.9

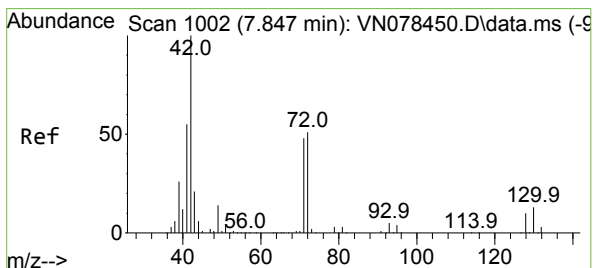
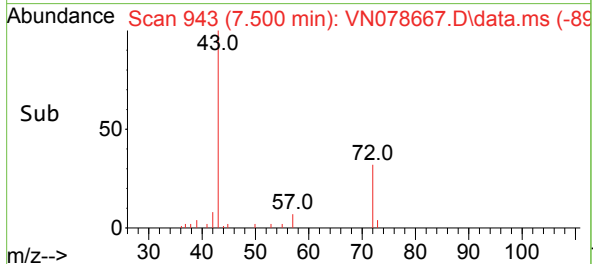
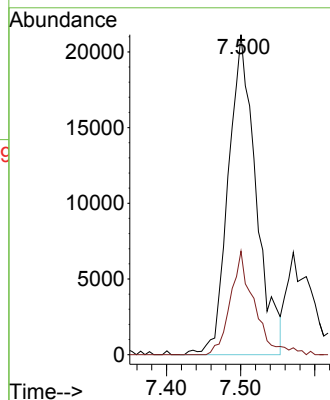
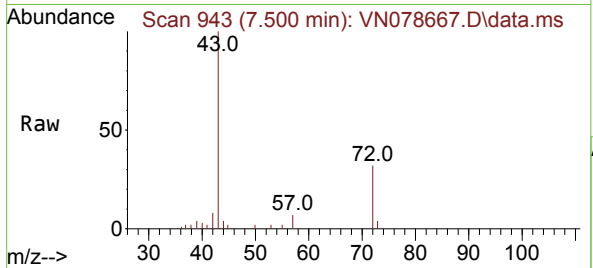




#25
2-Butanone
Concen: 20.786 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.011 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

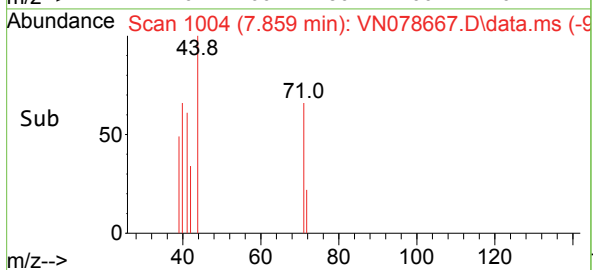
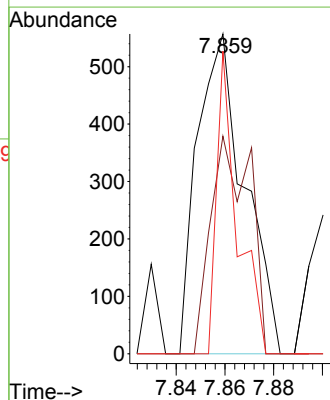
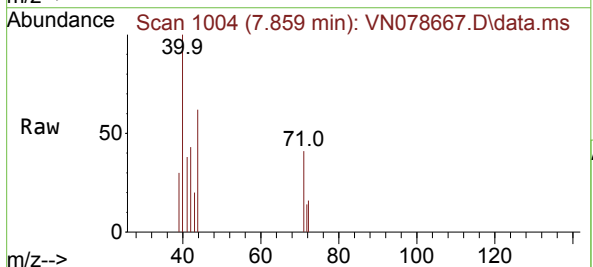
Instrument :
MSVOA_N
ClientSampleId :

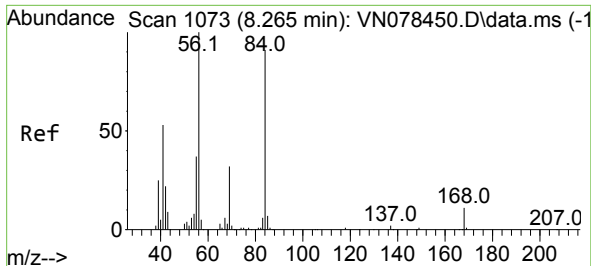
Tgt Ion: 43 Resp: 54748
Ion Ratio Lower Upper
43 100
72 32.3 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.433 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

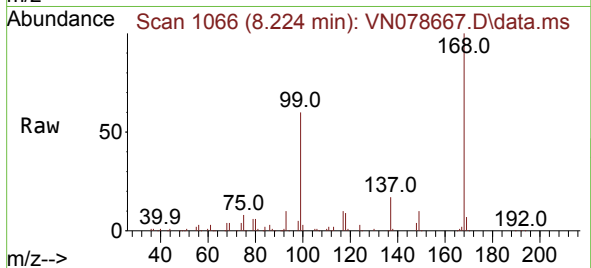
Tgt Ion: 42 Resp: 748
Ion Ratio Lower Upper
42 100
72 57.2 49.8 74.6
71 41.3 47.4 71.2#



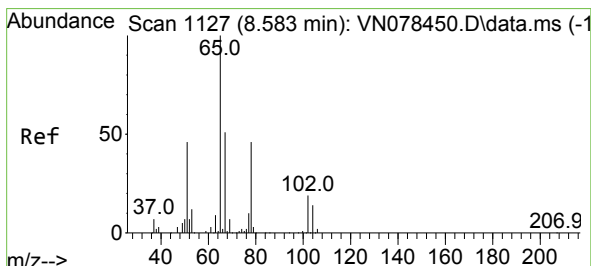
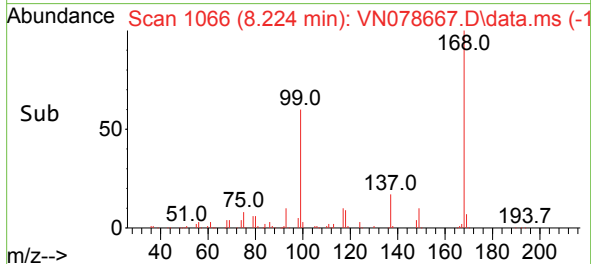
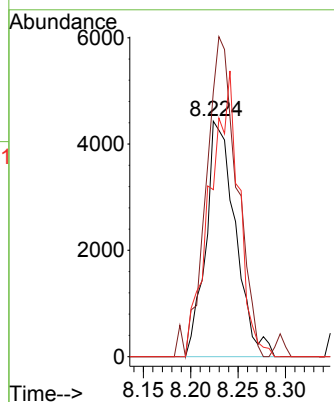


#31
Cyclohexane
Concen: 1.326 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Instrument :
MSVOA_N
ClientSampleId :

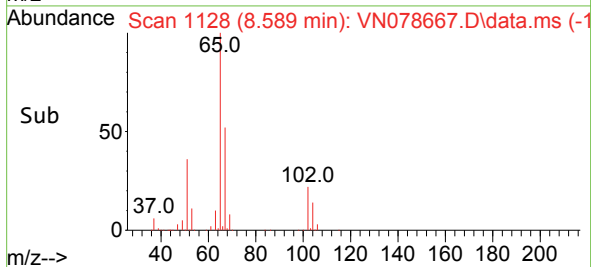
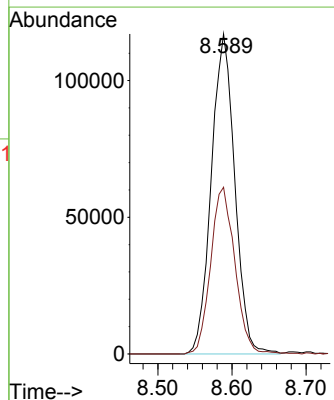
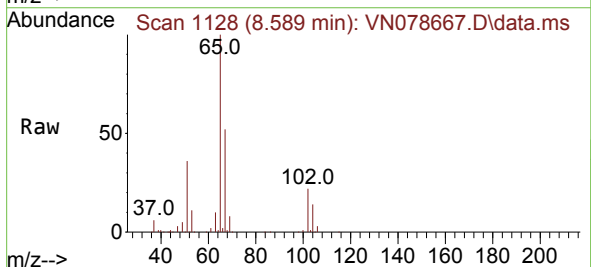


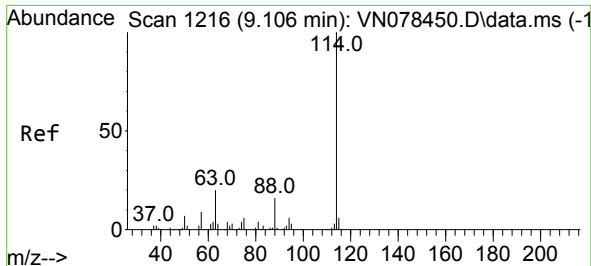
Tgt Ion: 56 Resp: 9623
Ion Ratio Lower Upper
56 100
69 102.8 26.8 40.2#
84 70.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.056 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

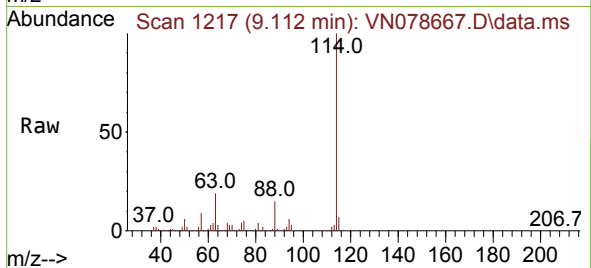
Tgt Ion: 65 Resp: 258127
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.6



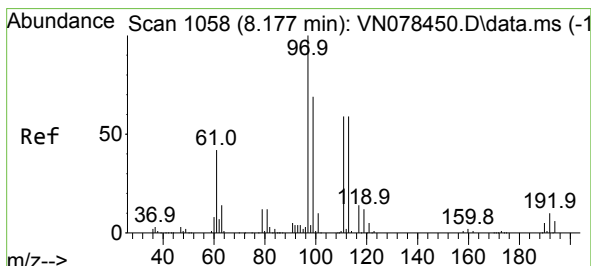
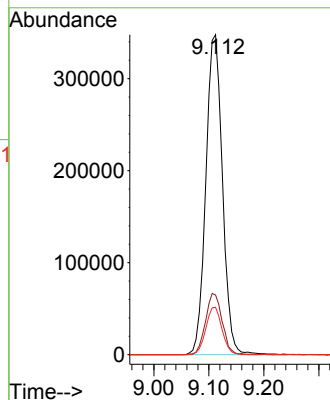
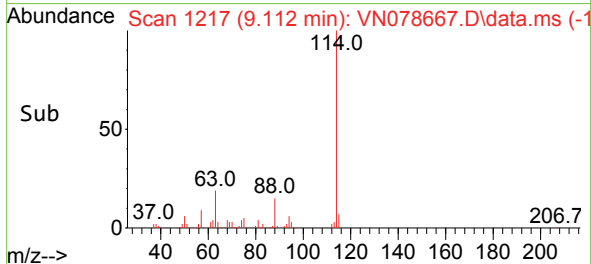


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Instrument :
MSVOA_N
ClientSampleId :

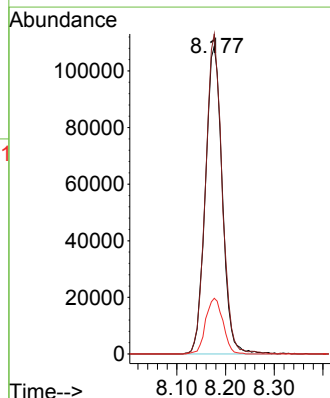
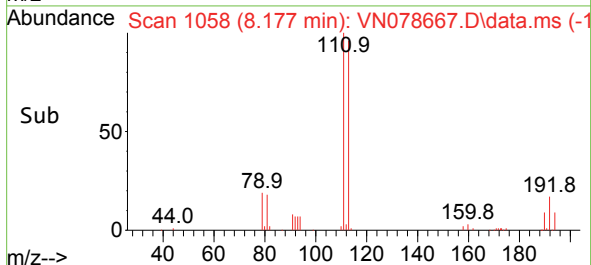
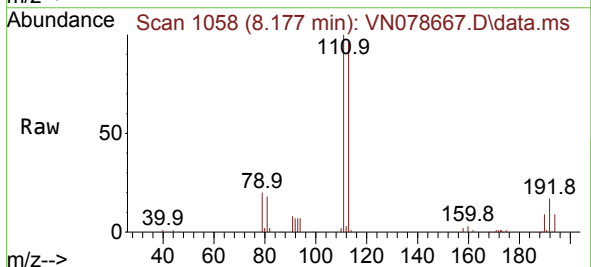


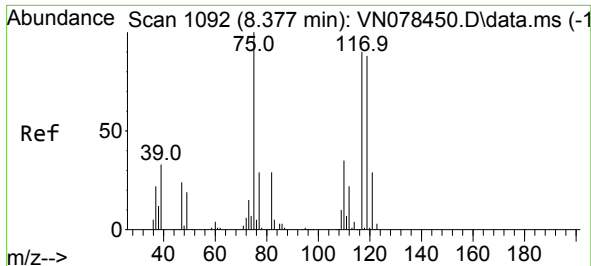
Tgt Ion:114 Resp: 729576
Ion Ratio Lower Upper
114 100
63 18.7 0.0 36.4
88 14.8 0.0 30.6



#35
Dibromofluoromethane
Concen: 52.724 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

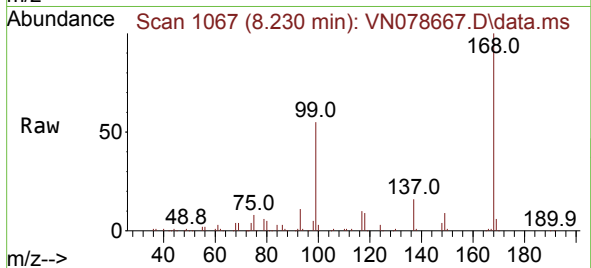
Tgt Ion:113 Resp: 261121
Ion Ratio Lower Upper
113 100
111 101.2 82.6 123.8
192 18.6 12.7 19.1



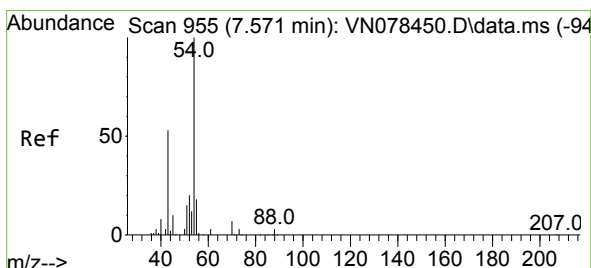
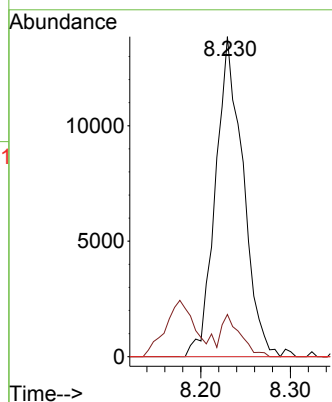
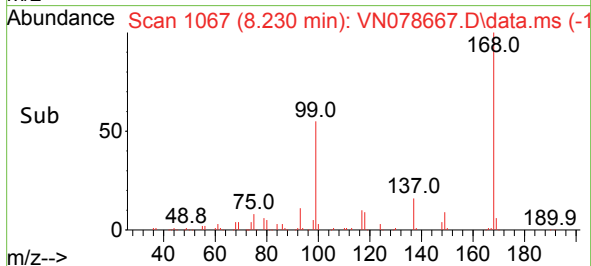


#36
1,1-Dichloropropene
Concen: 4.123 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Instrument :
MSVOA_N
ClientSampleId :

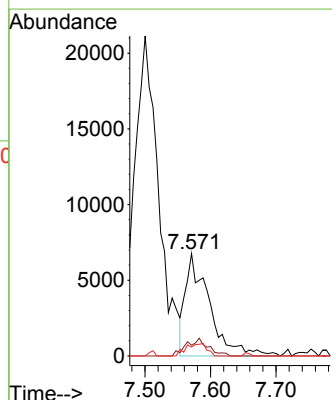
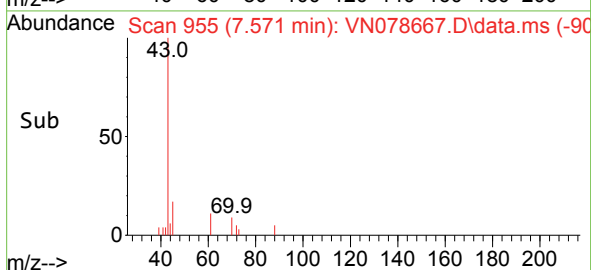
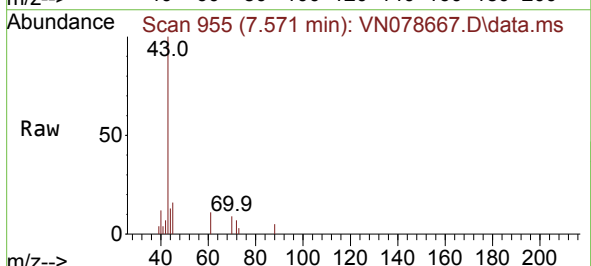


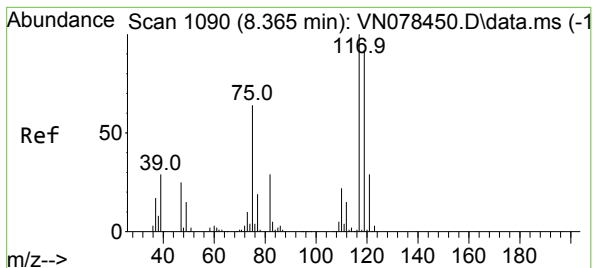
Tgt Ion: 75 Resp: 29481
Ion Ratio Lower Upper
75 100
110 10.7 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 2.888 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion: 43 Resp: 17217
Ion Ratio Lower Upper
43 100
61 15.5 13.2 19.8
70 10.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.280 ug/l

RT: 8.236 min Scan# 1107

Delta R.T. -0.129 min

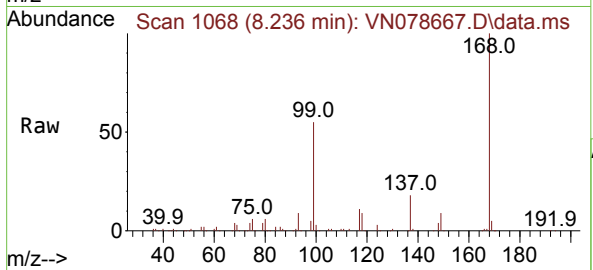
Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

Instrument :

MSVOA_N

ClientSampleId :



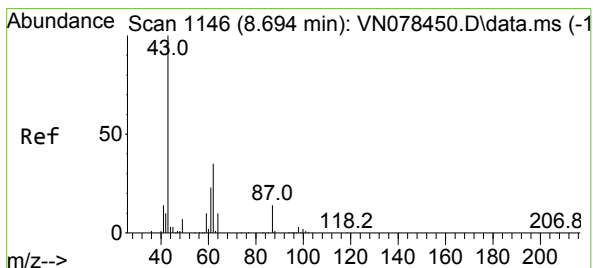
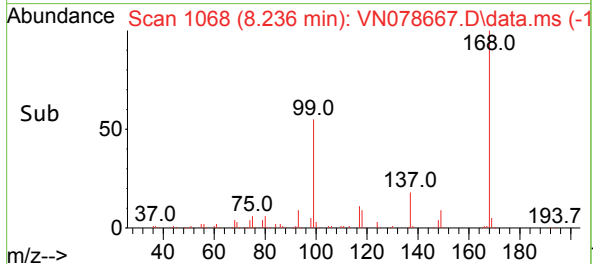
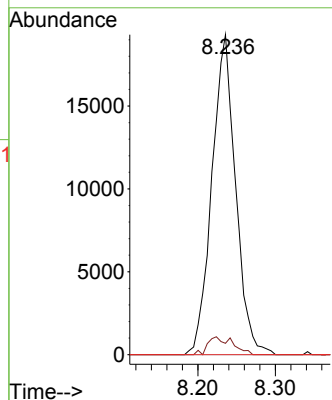
Tgt Ion:117 Resp: 41037

Ion Ratio Lower Upper

117 100

119 3.5 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 52.646 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

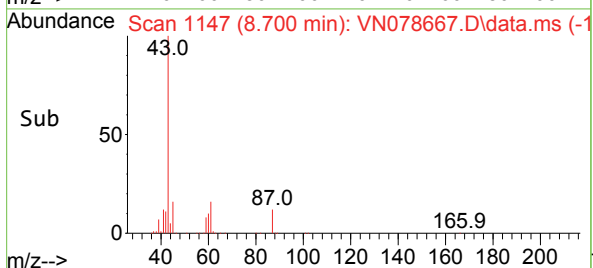
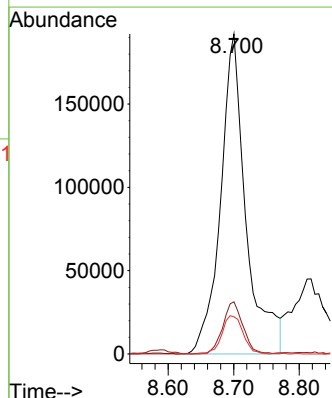
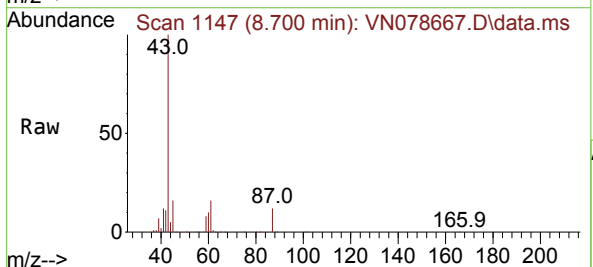
Tgt Ion: 43 Resp: 516695

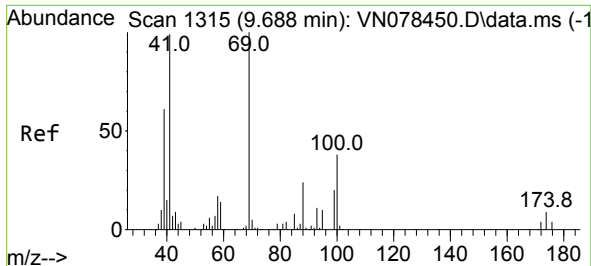
Ion Ratio Lower Upper

43 100

61 13.0 24.7 37.1#

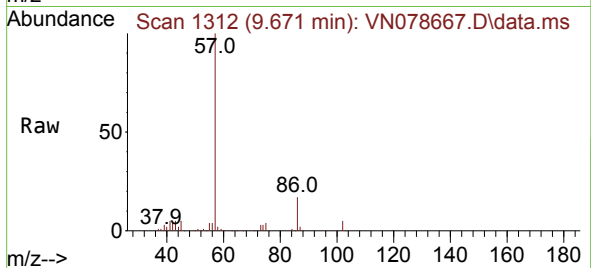
87 9.8 14.6 21.8#



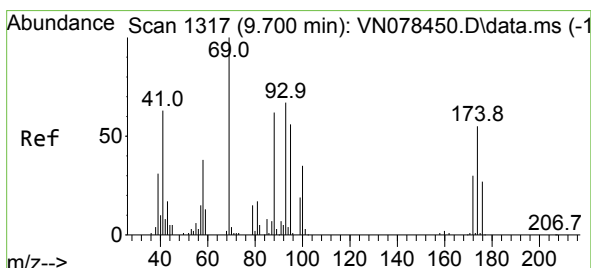
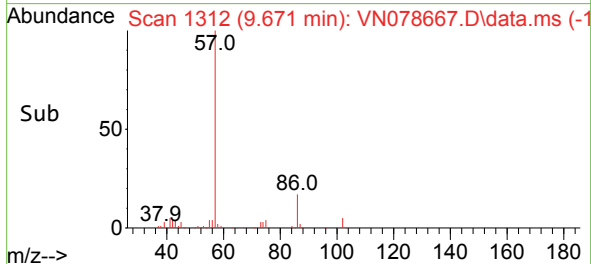
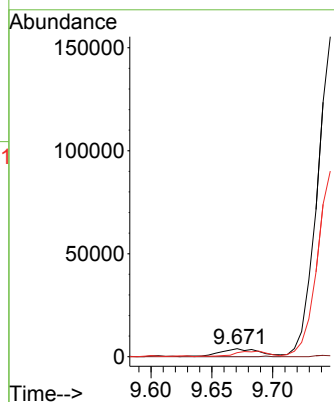


#48
Methyl methacrylate
Concen: 1.987 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Instrument :
MSVOA_N
ClientSampleId :

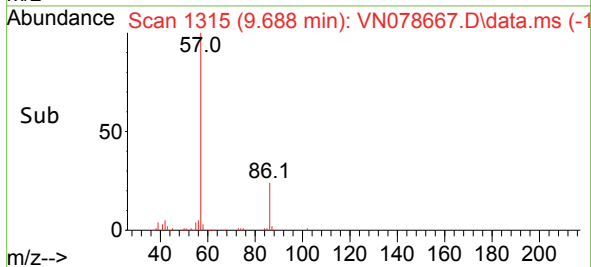
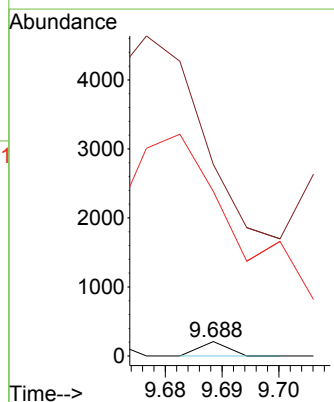
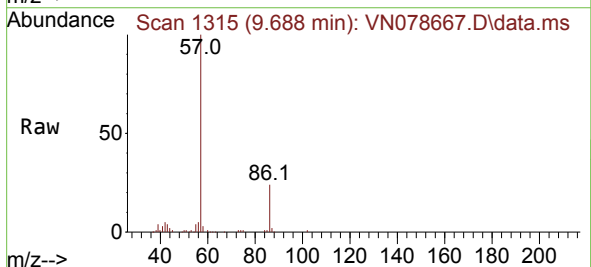


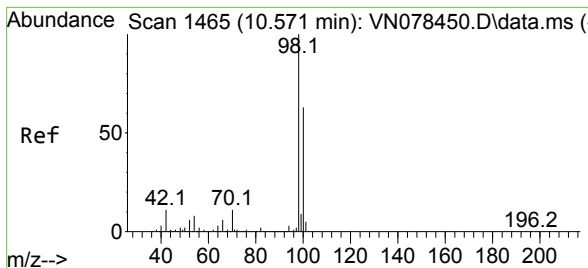
Tgt Ion: 41 Resp: 9035
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.736 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.012 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 10109.6 47.0 70.4#

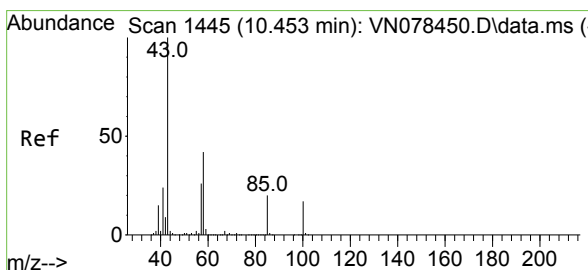
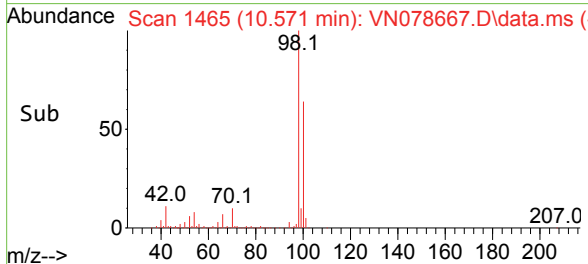
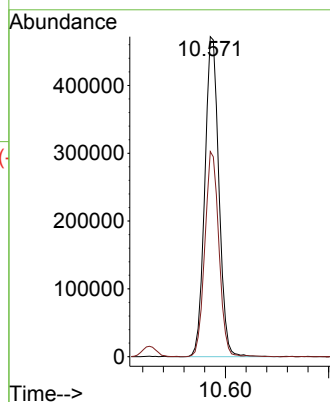
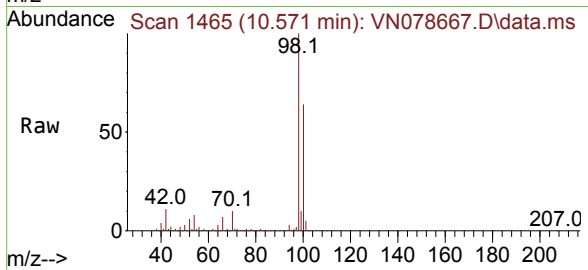




#50
Toluene-d8
Concen: 47.657 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

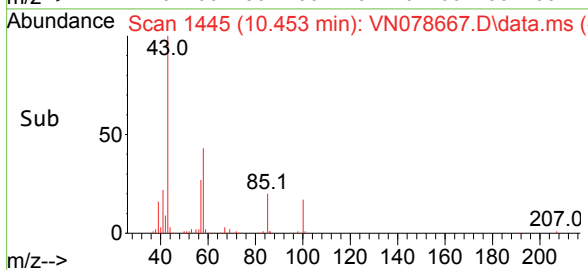
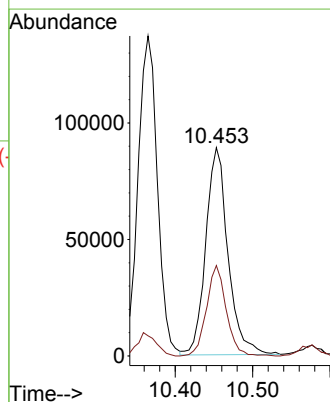
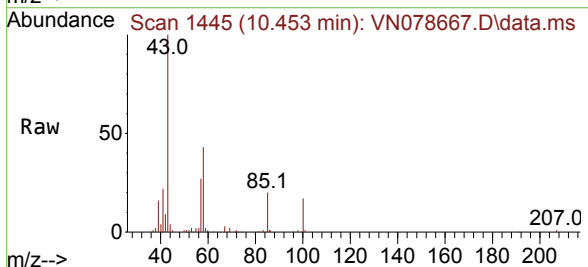
Instrument :
MSVOA_N
ClientSampleId :

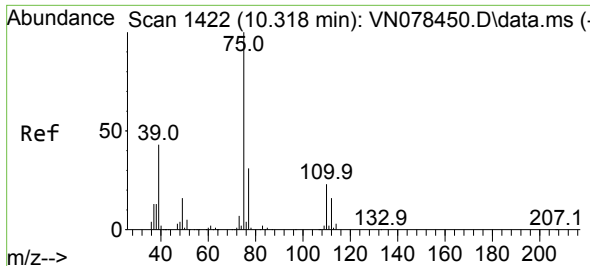
Tgt Ion: 98 Resp: 891630
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 30.315 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion: 43 Resp: 176974
Ion Ratio Lower Upper
43 100
58 38.9 36.6 54.8

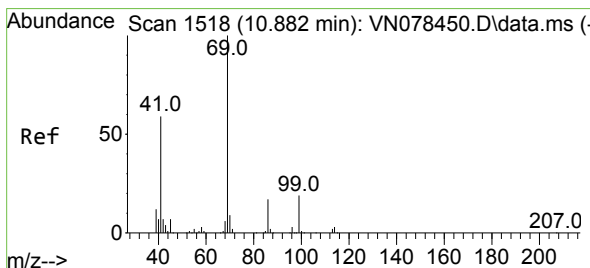
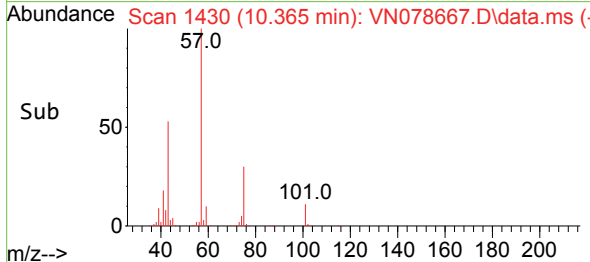
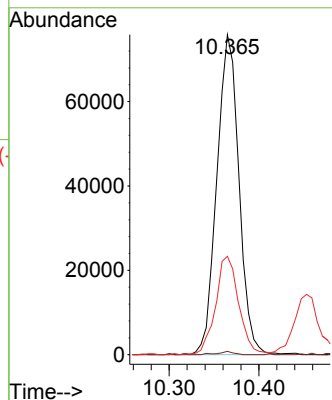
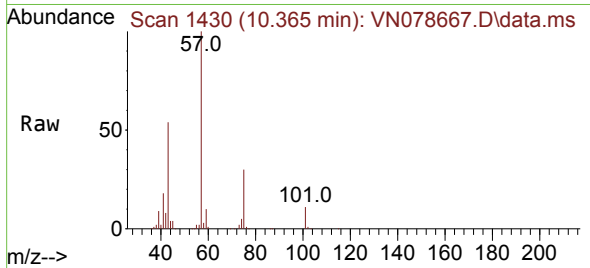




#54
 cis-1,3-Dichloropropene
 Concen: 15.707 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

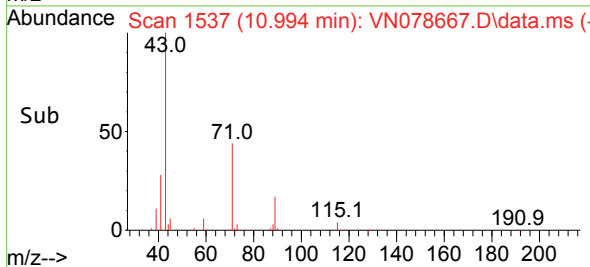
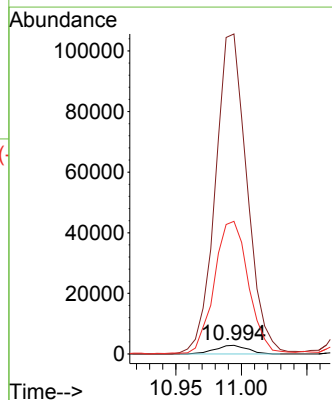
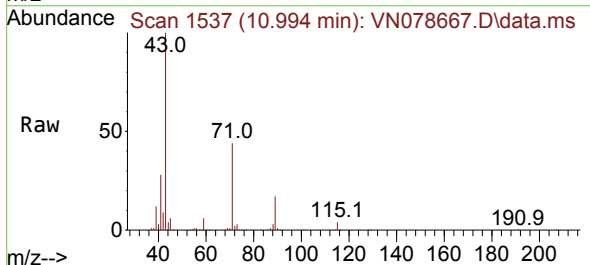
Instrument :
 MSVOA_N
 ClientSampleId :

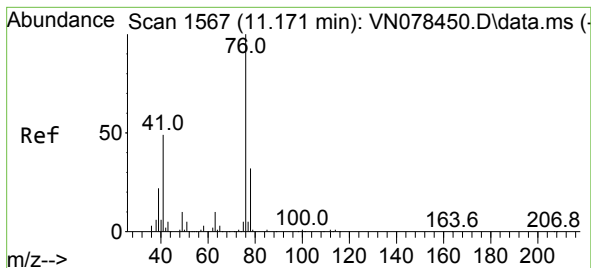
Tgt Ion: 75 Resp: 129851
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 30.8 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.670 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

Tgt Ion: 69 Resp: 4848
 Ion Ratio Lower Upper
 69 100
 41 3659.8 39.6 59.4#
 39 1642.4 28.6 43.0#

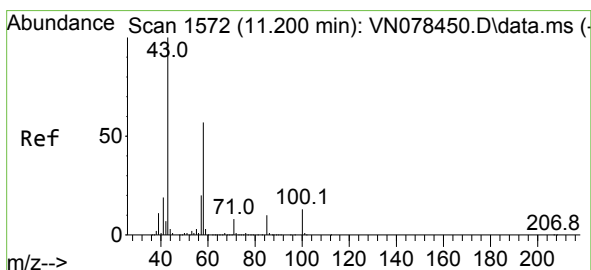
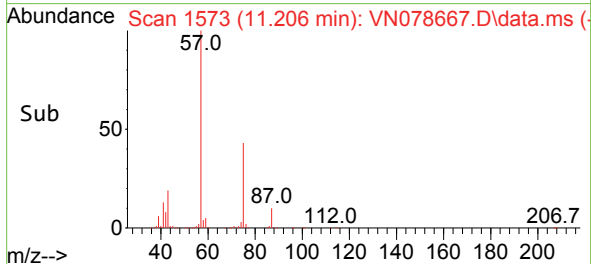
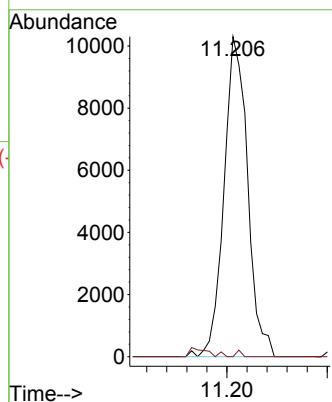
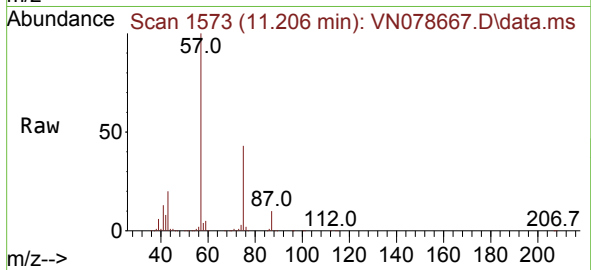




#57
1,3-Dichloropropane
Concen: 1.907 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

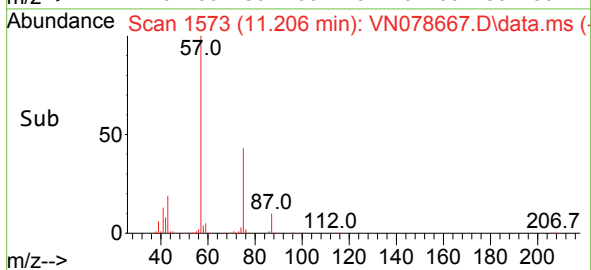
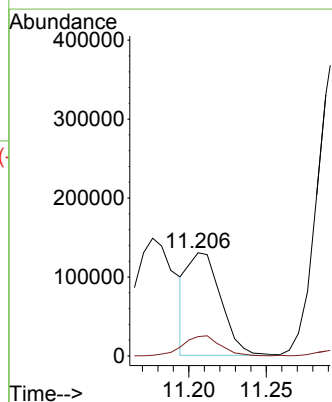
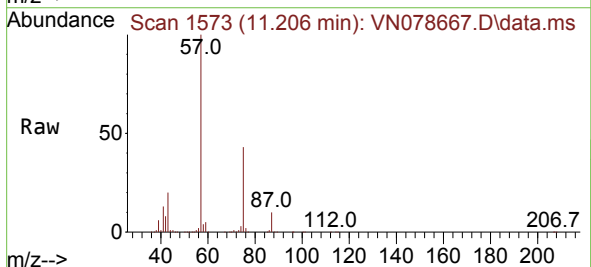
Instrument :
MSVOA_N
ClientSampleId :

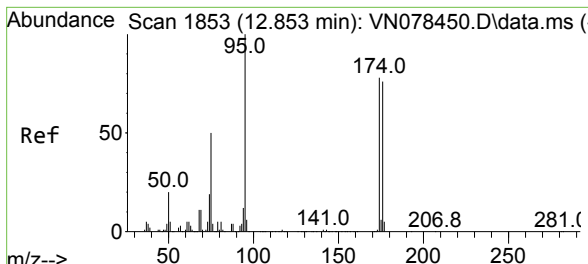
Tgt Ion: 76 Resp: 16774
Ion Ratio Lower Upper
76 100
78 0.4 26.1 39.1#



#59
2-Hexanone
Concen: 47.147 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

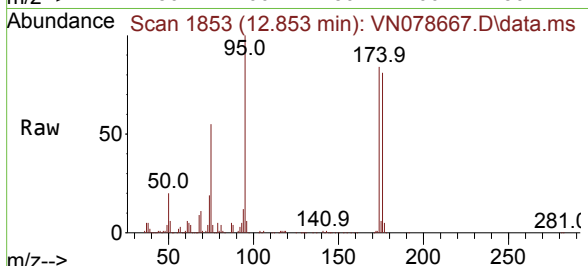
Tgt Ion: 43 Resp: 195612
Ion Ratio Lower Upper
43 100
58 22.2 31.7 95.1#





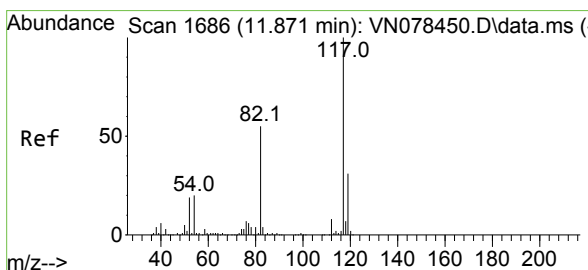
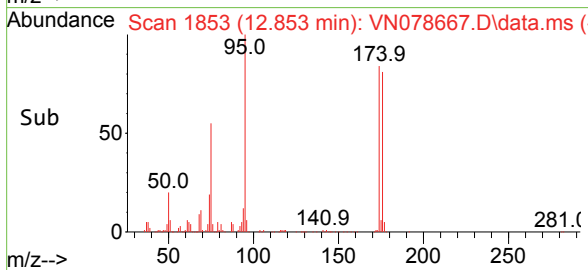
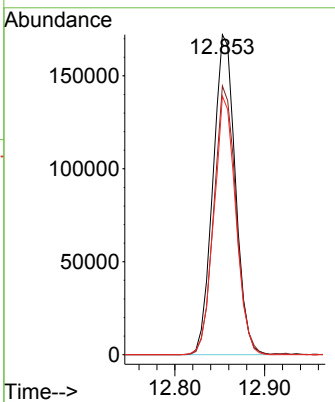
#62
 4-Bromofluorobenzene
 Concen: 51.764 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 95 Resp: 298309

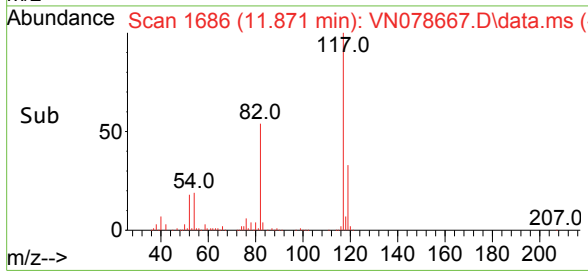
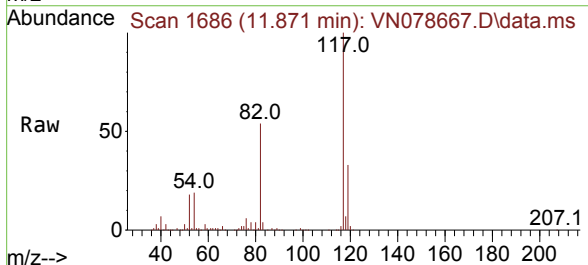
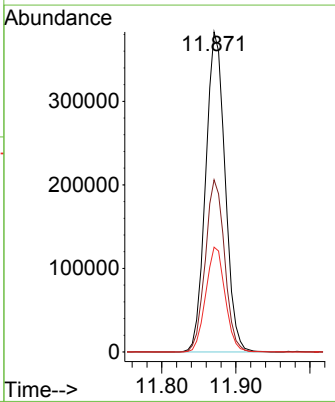
Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	143.8
176	79.1	0.0	135.8

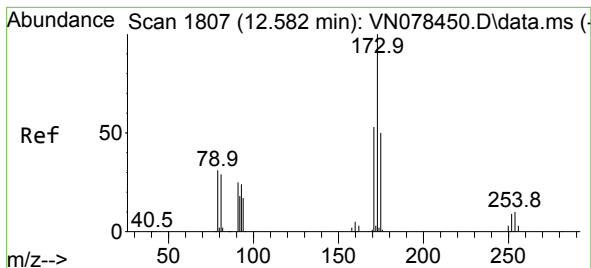


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

Tgt Ion: 117 Resp: 695957

Ion	Ratio	Lower	Upper
117	100		
82	53.8	44.0	66.0
119	32.8	25.6	38.4





#71

Bromoform

Concen: 0.520 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

Instrument :

MSVOA_N

ClientSampleId :

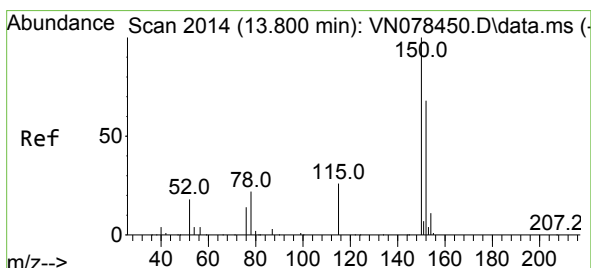
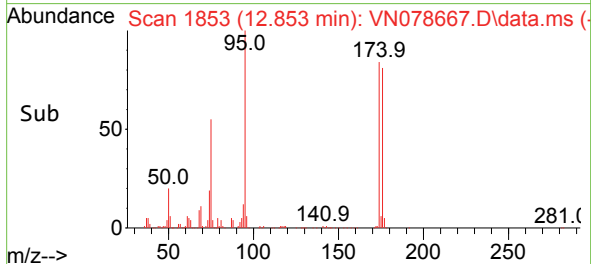
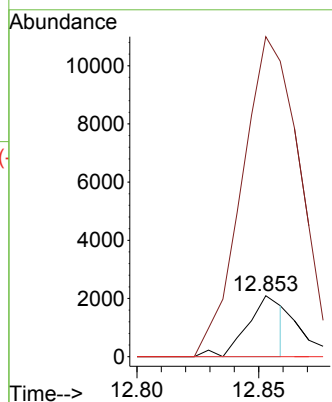
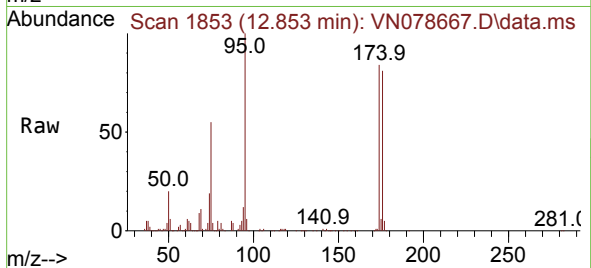
Tgt Ion:173 Resp: 2106

Ion Ratio Lower Upper

173 100

175 626.2 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

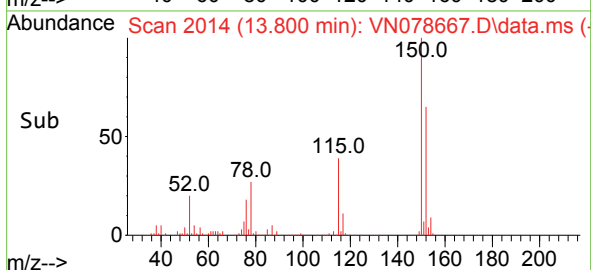
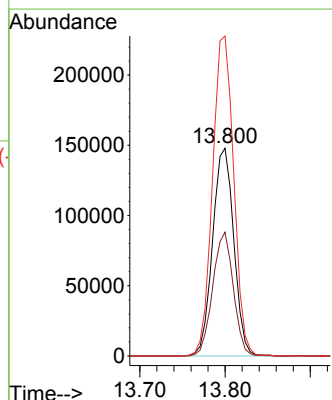
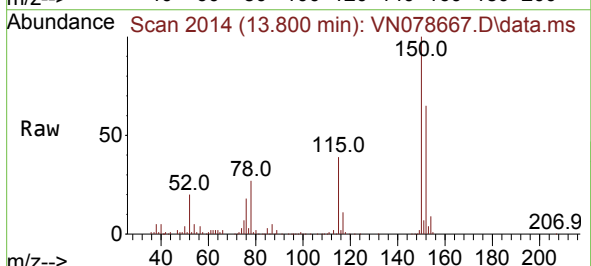
Tgt Ion:152 Resp: 255475

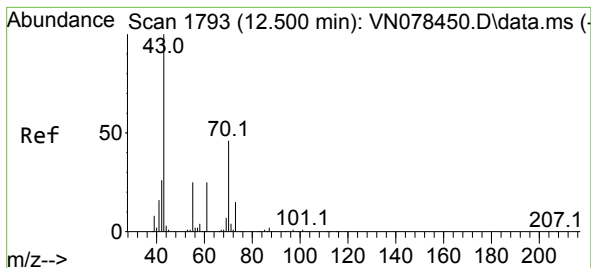
Ion Ratio Lower Upper

152 100

115 57.9 32.3 96.8

150 154.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.379 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

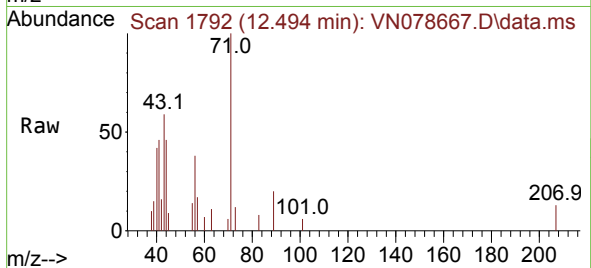
Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 3137

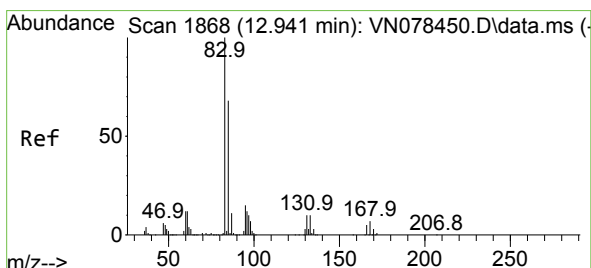
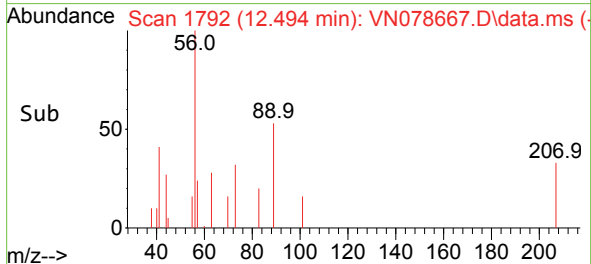
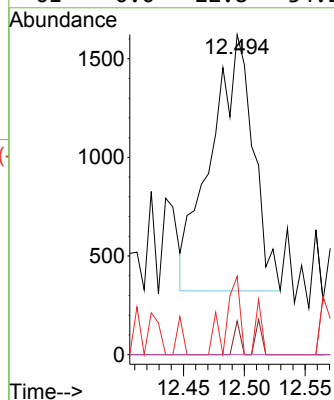
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 10.2 21.4 32.0#

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078667.D

Acq: 27 Jul 2023 18:09

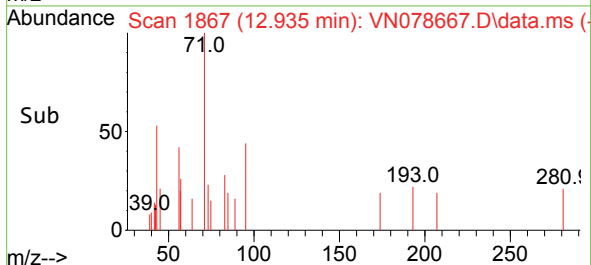
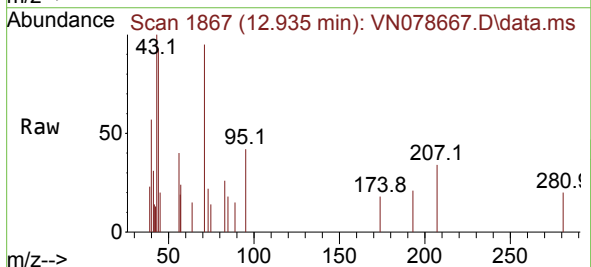
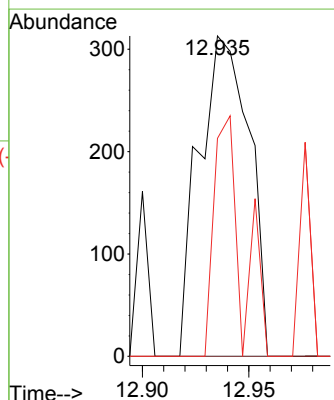
Tgt Ion: 83 Resp: 513

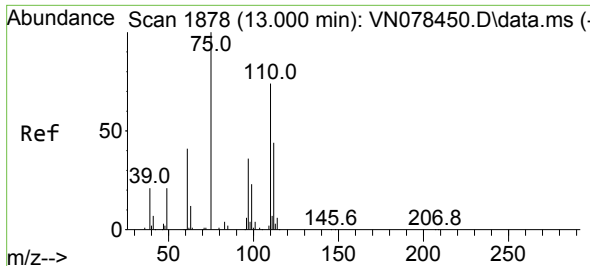
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 41.5 31.9 95.7

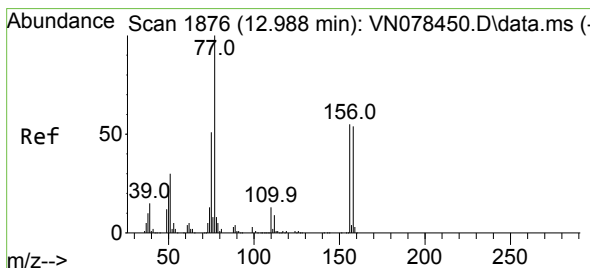
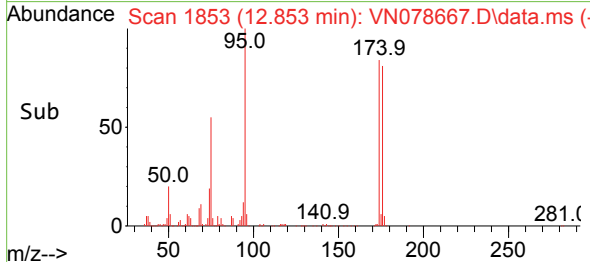
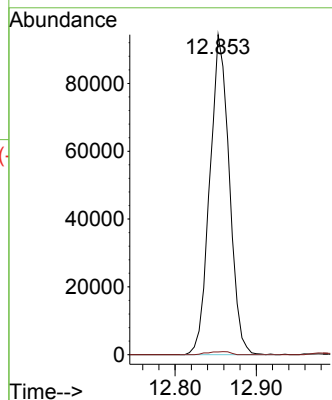
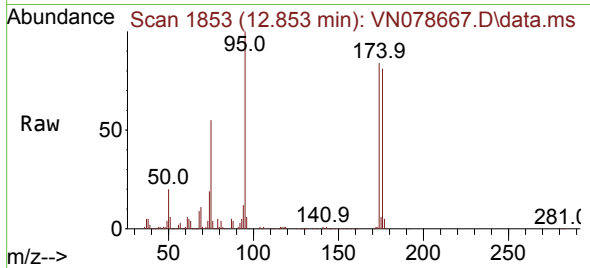




#76
1,2,3-Trichloropropane
Concen: 25.456 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

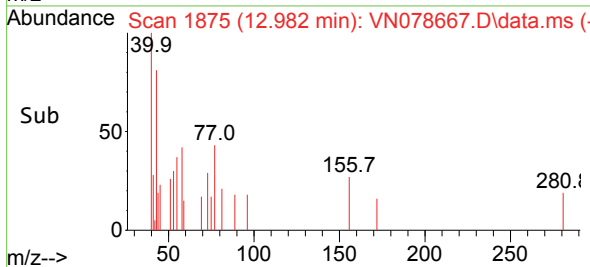
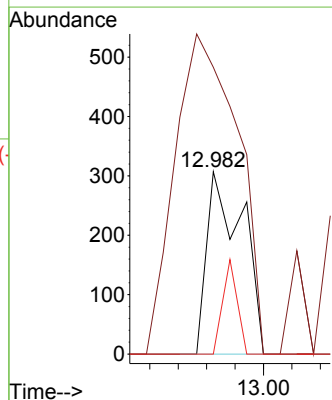
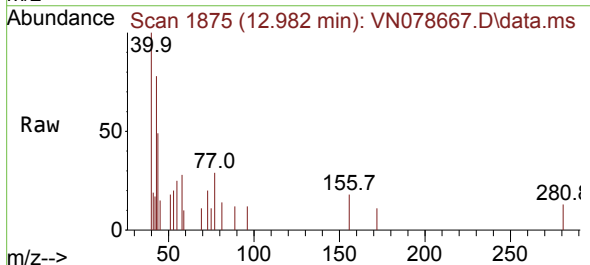
Instrument :
MSVOA_N
ClientSampleId :

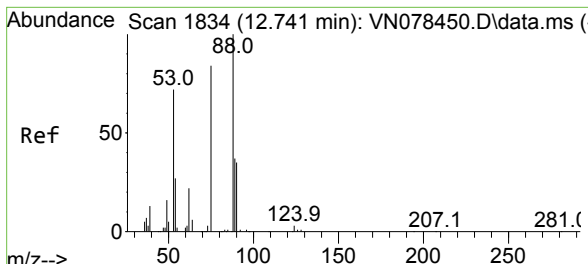
Tgt Ion: 75 Resp: 157192
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#77
Bromobenzene
Concen: Below Cal
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN078667.D
Acq: 27 Jul 2023 18:09

Tgt Ion:156 Resp: 267
Ion Ratio Lower Upper
156 100
77 310.1 107.7 323.3
158 21.0 48.4 145.3#

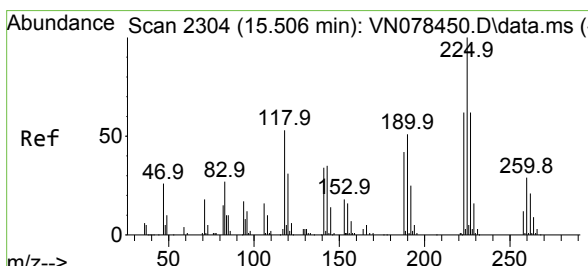
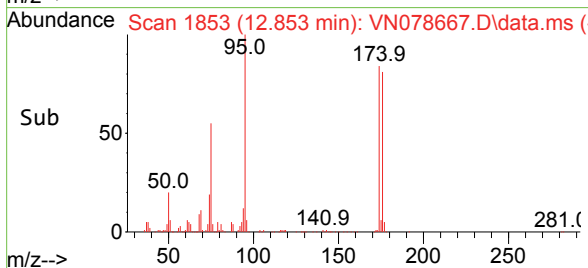
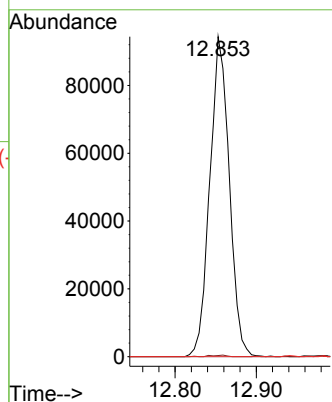
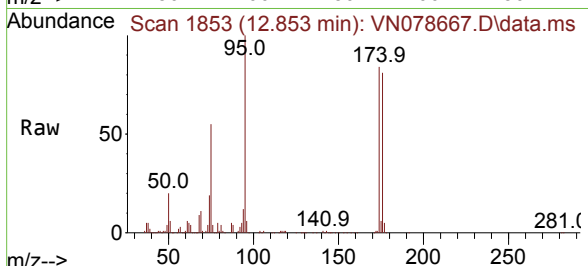




#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.893 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 157192
 Ion Ratio Lower Upper
 75 100
 53 0.4 67.4 101.2#
 89 0.0 38.8 58.2#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.512 min Scan# 2305
 Delta R.T. 0.006 min
 Lab File: VN078667.D
 Acq: 27 Jul 2023 18:09

Tgt Ion: 225 Resp: 201
 Ion Ratio Lower Upper
 225 100
 223 74.1 31.3 93.8
 227 0.0 31.9 95.9#

