

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079935.D
 Acq On : 06 Nov 2023 20:09
 Operator : JC\MD
 Sample : PB156885ZHE#18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:54:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

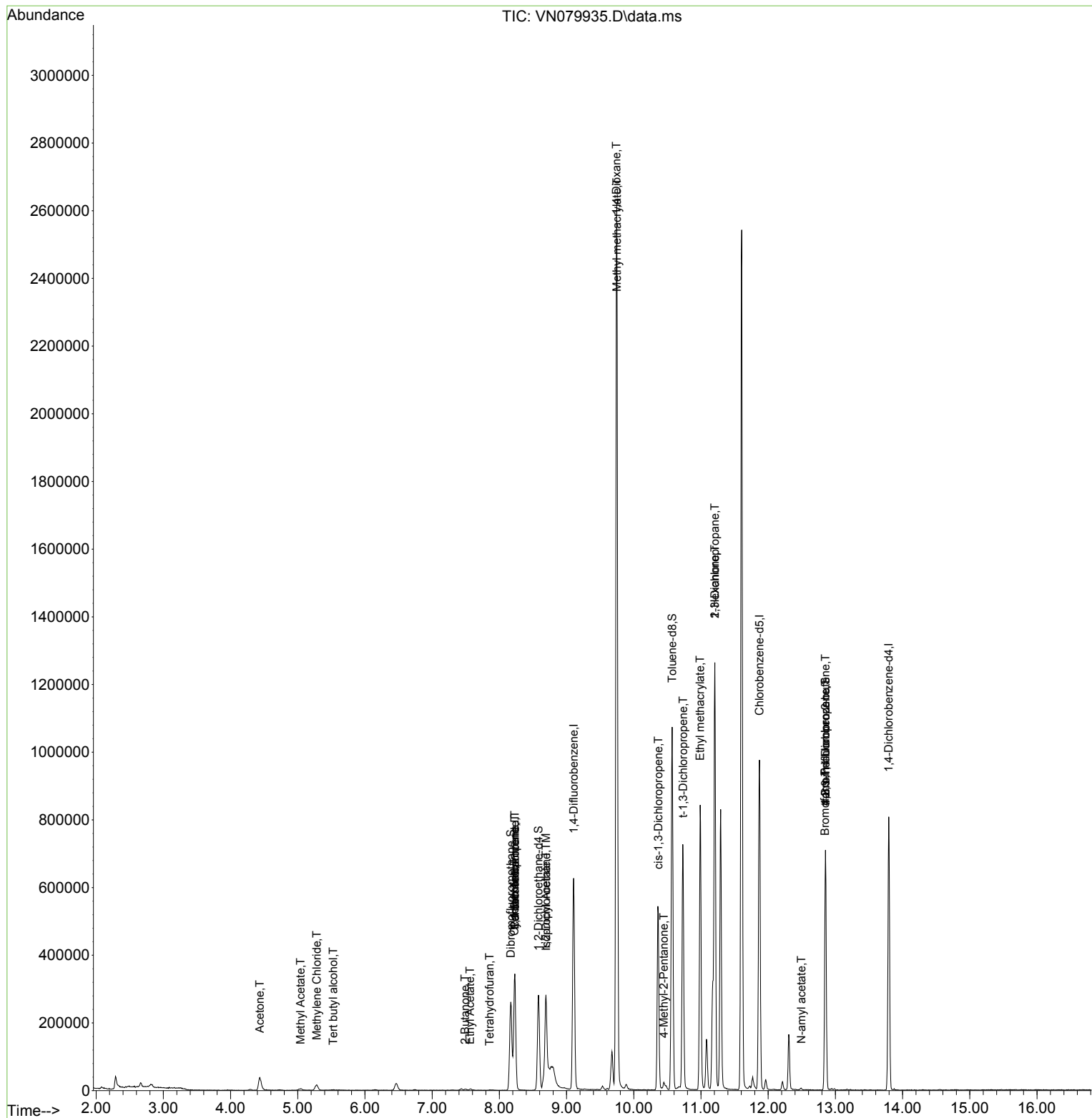
Internal Standards						
1) Pentafluorobenzene	8.230	168	232083	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	514554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	554906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206922	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	230186	65.100	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 130.200%#			
35) Dibromofluoromethane	8.171	113	188599	51.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.571	98	708082	52.815	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.640%			
62) 4-Bromofluorobenzene	12.853	95	236880	53.275	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.540%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1311	Below Cal		99
11) Tert butyl alcohol	5.530	59	681	1.509	ug/l #	72
16) Acetone	4.436	43	71100	57.246	ug/l	94
18) Methyl Acetate	5.042	43	10248	1.725	ug/l #	79
20) Methylene Chloride	5.283	84	11575	3.693	ug/l #	78
25) 2-Butanone	7.489	43	5529	3.040	ug/l #	67
29) Tetrahydrofuran	7.853	42	522	0.441	ug/l #	61
31) Cyclohexane	8.224	56	6375	1.364	ug/l #	8
36) 1,1-Dichloropropene	8.230	75	21979	4.227	ug/l #	46
37) Ethyl Acetate	7.565	43	7271	1.525	ug/l #	80
38) Carbon Tetrachloride	8.230	117	26130	4.986	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1898	0.349	ug/l #	73
43) Isopropyl Acetate	8.694	43	362822	43.383	ug/l #	72
48) Methyl methacrylate	9.747	41	241435	65.908	ug/l #	28
49) 1,4-Dioxane	9.741	88	315	4.866	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	23374	4.964	ug/l #	66
53) t-1,3-Dichloropropene	10.735	75	1666	0.293	ug/l #	56
54) cis-1,3-Dichloropropene	10.365	75	92175	14.883	ug/l #	71
56) Ethyl methacrylate	10.988	69	4268	0.806	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12377	1.891	ug/l #	42
59) 2-Hexanone	11.206	43	151537	42.071	ug/l #	49
71) Bromoform	12.847	173	1586	0.515	ug/l #	1
74) N-amyl acetate	12.494	43	2287	0.334	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	129615	26.681	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	129615	72.593	ug/l #	15

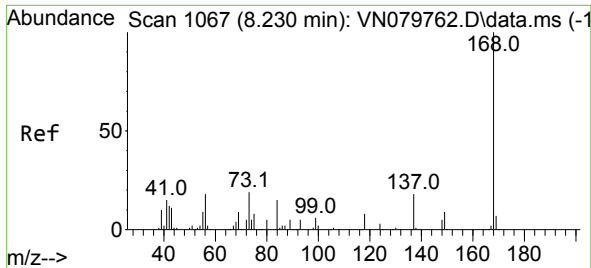
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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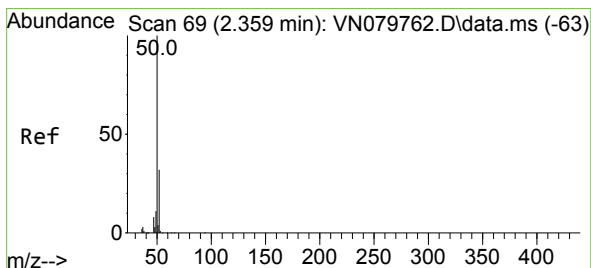
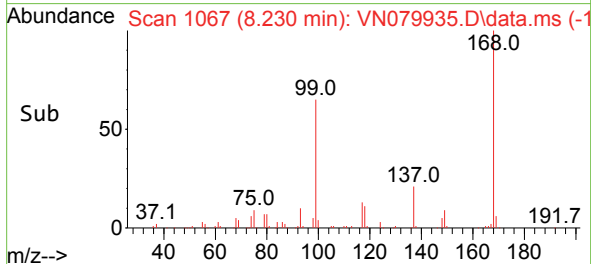
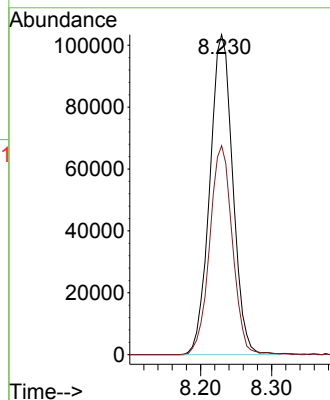
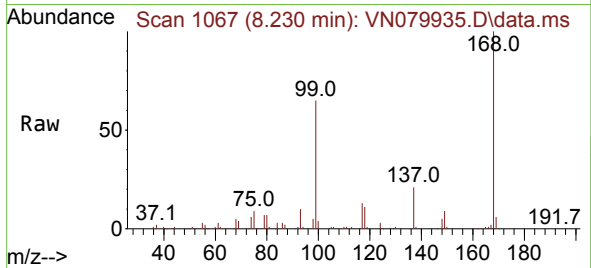




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

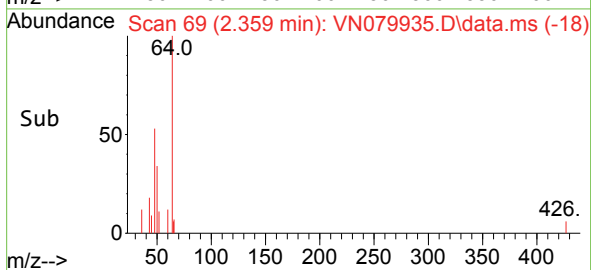
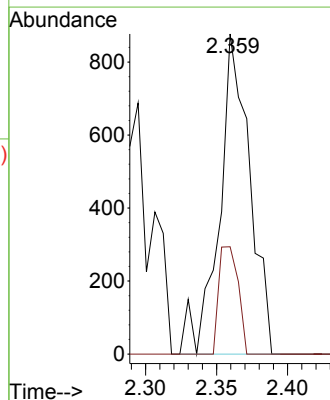
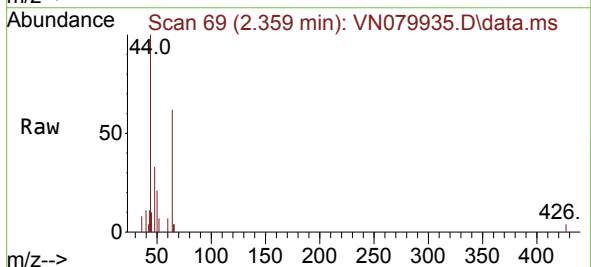
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 232083
Ion Ratio Lower Upper
168 100
99 65.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 50 Resp: 1311
Ion Ratio Lower Upper
50 100
52 33.5 26.5 39.7

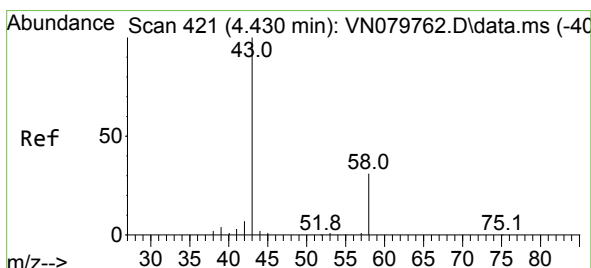
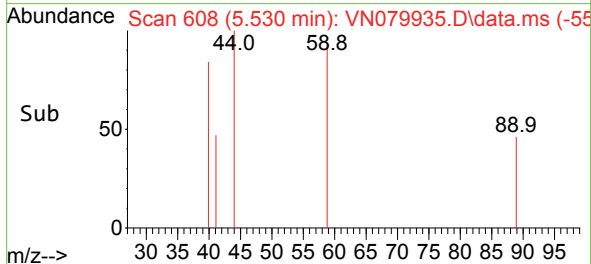
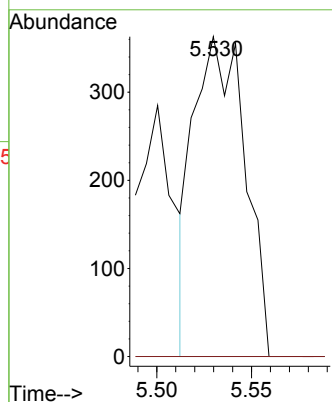
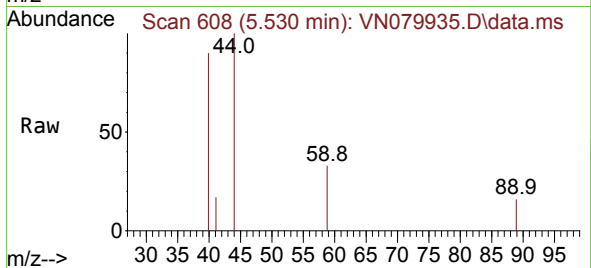




#11
Tert butyl alcohol
Concen: 1.509 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

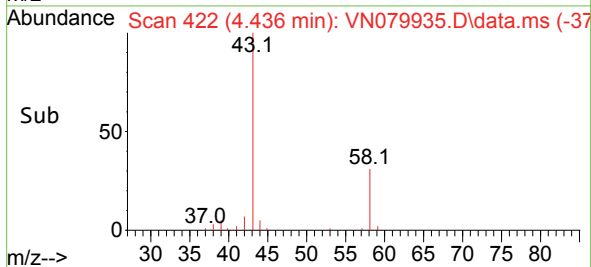
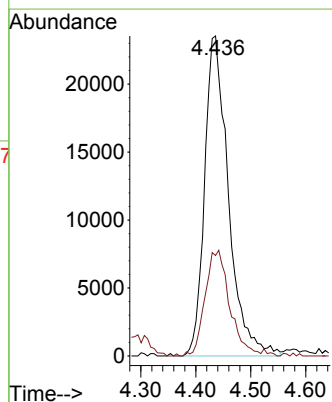
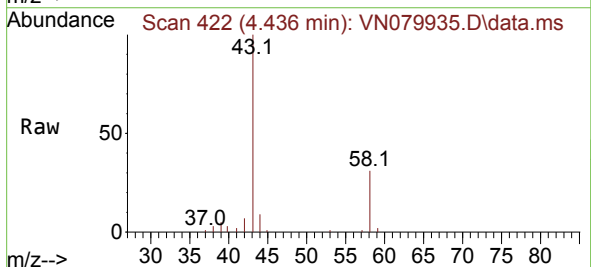
Instrument :
MSVOA_N
ClientSampleId :

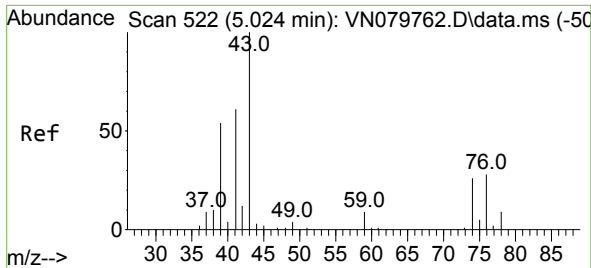
Tgt Ion: 59 Resp: 681
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 57.246 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 43 Resp: 71100
Ion Ratio Lower Upper
43 100
58 31.4 28.0 42.0

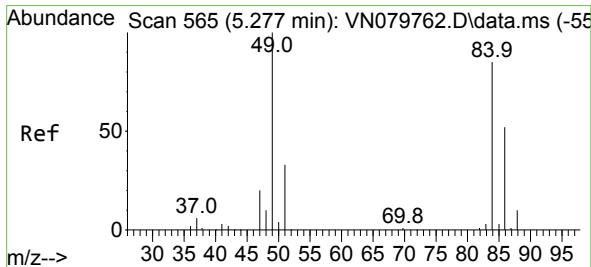
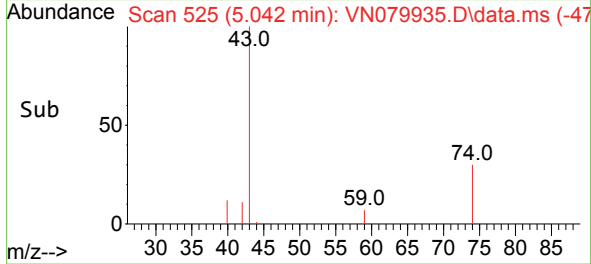
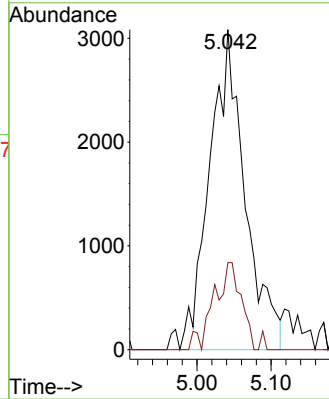
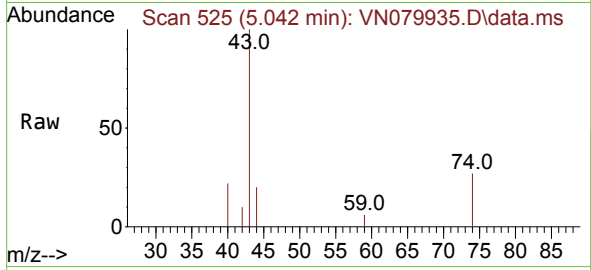




#18
Methyl Acetate
Concen: 1.725 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

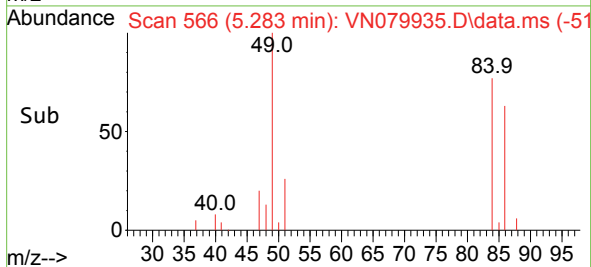
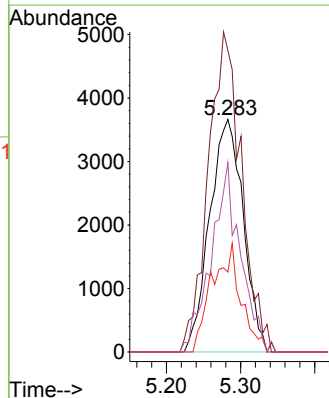
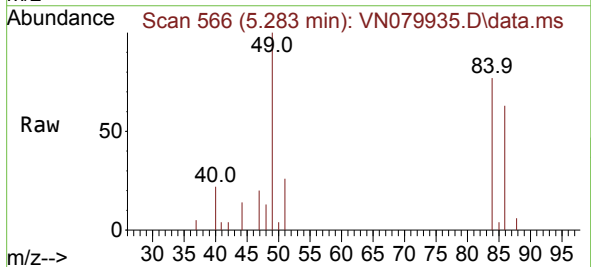
Instrument :
MSVOA_N
ClientSampleId :

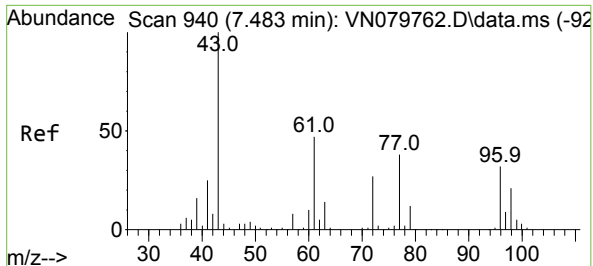
Tgt Ion: 43 Resp: 10248
Ion Ratio Lower Upper
43 100
74 20.9 26.2 39.4#



#20
Methylene Chloride
Concen: 3.693 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 84 Resp: 11575
Ion Ratio Lower Upper
84 100
49 129.6 79.7 119.5#
51 34.3 25.2 37.8
86 81.4 53.3 79.9#





#25

2-Butanone

Concen: 3.040 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

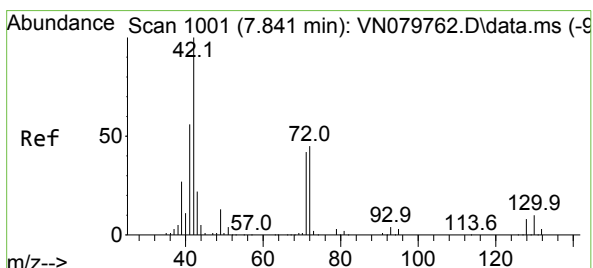
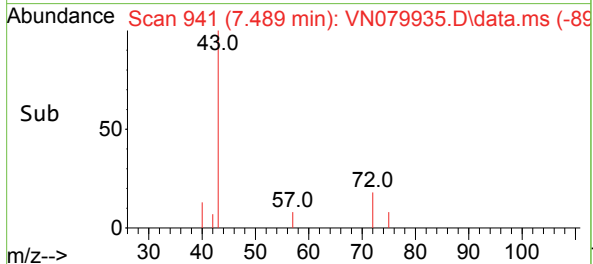
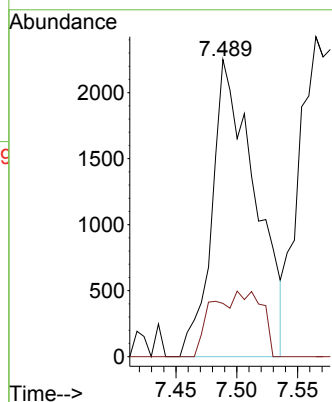
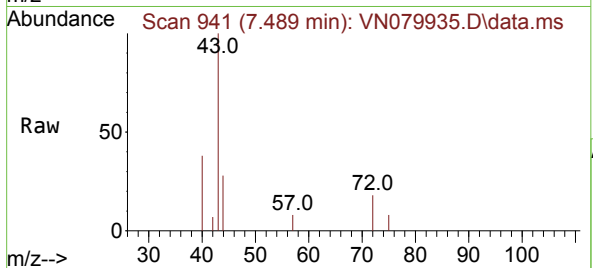
ClientSampleId :

Tgt Ion: 43 Resp: 5529

Ion Ratio Lower Upper

43 100

72 17.9 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.012 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

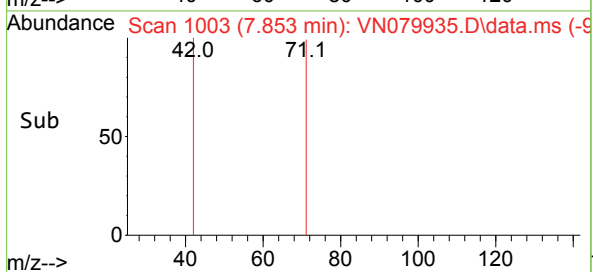
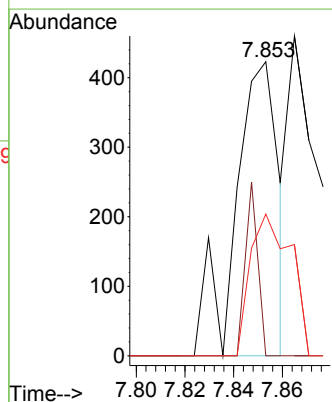
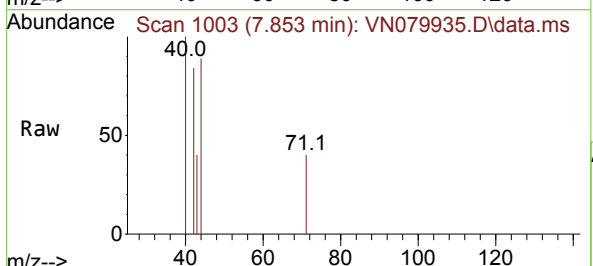
Tgt Ion: 42 Resp: 522

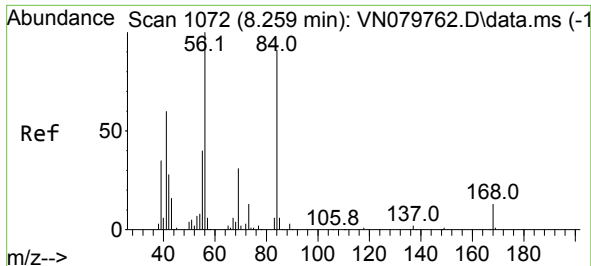
Ion Ratio Lower Upper

42 100

72 16.9 49.8 74.6#

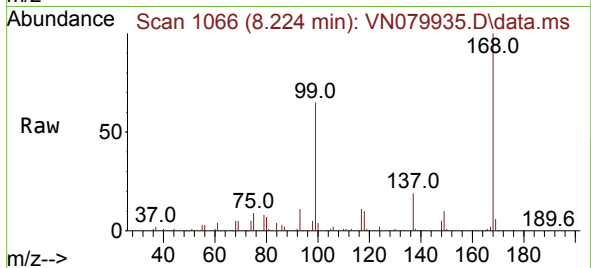
71 45.4 47.4 71.2#



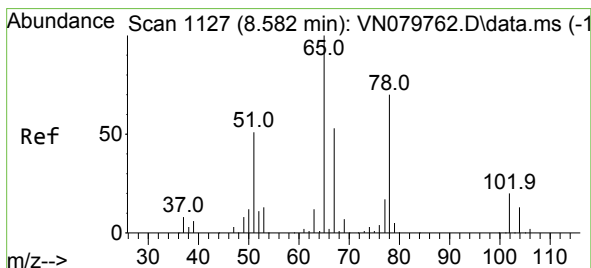
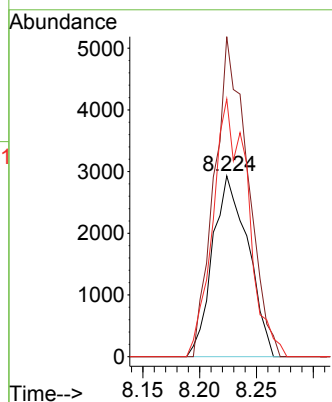
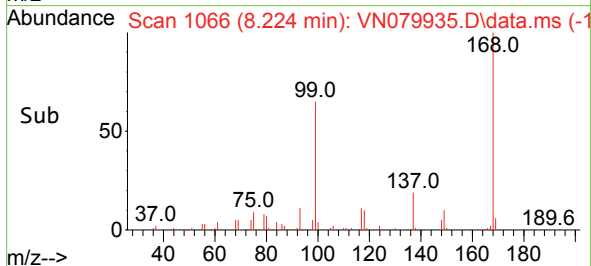


#31
Cyclohexane
Concen: 1.364 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Instrument :
MSVOA_N
ClientSampleId :

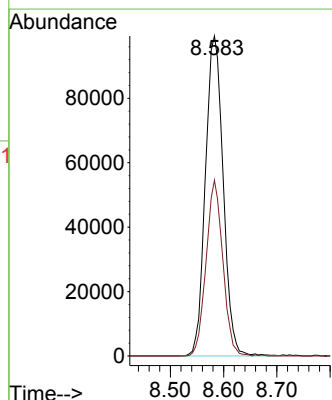
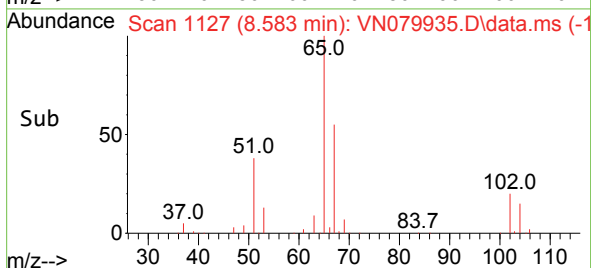
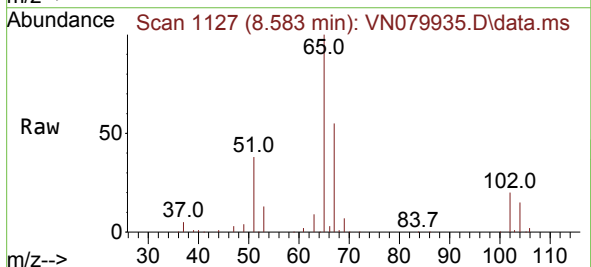


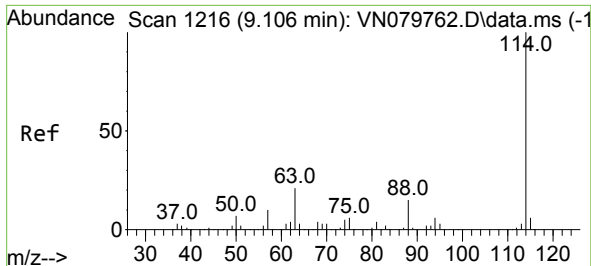
Tgt Ion: 56 Resp: 6375
Ion Ratio Lower Upper
56 100
69 177.0 26.8 40.2#
84 142.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 65.100 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 65 Resp: 230186
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

ClientSampleId :

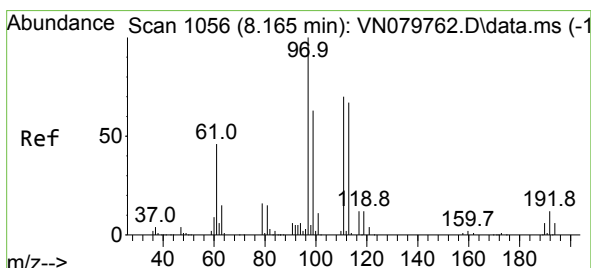
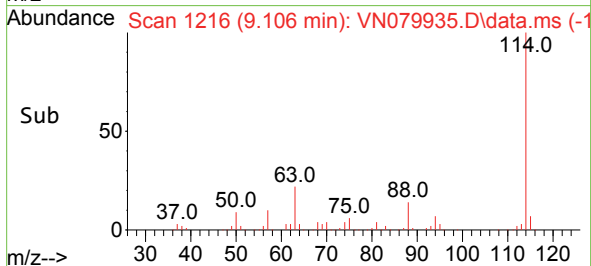
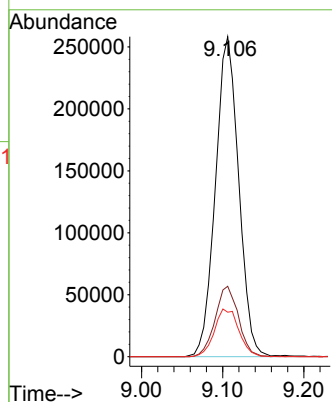
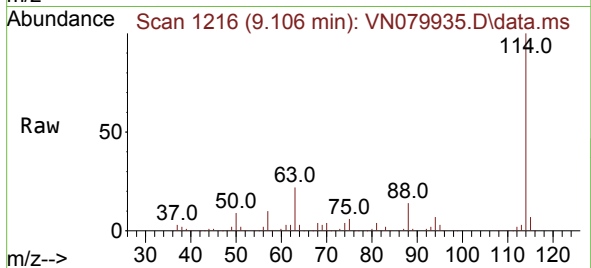
Tgt Ion:114 Resp: 514554

Ion Ratio Lower Upper

114 100

63 22.0 0.0 36.4

88 13.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.787 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

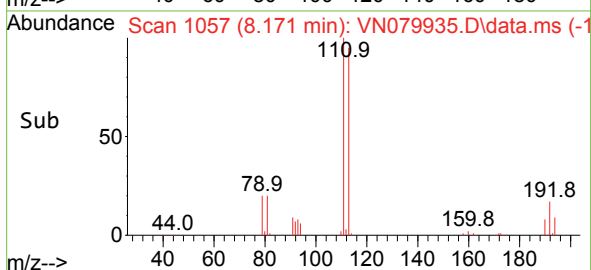
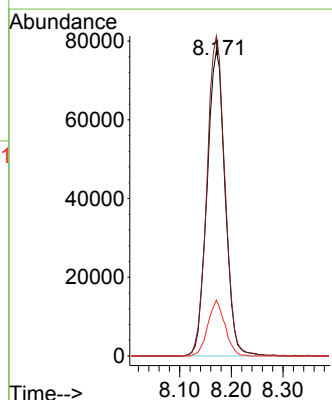
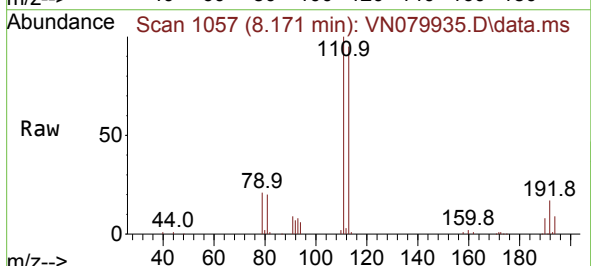
Tgt Ion:113 Resp: 188599

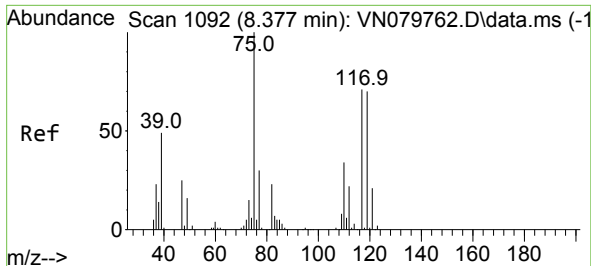
Ion Ratio Lower Upper

113 100

111 104.6 82.6 123.8

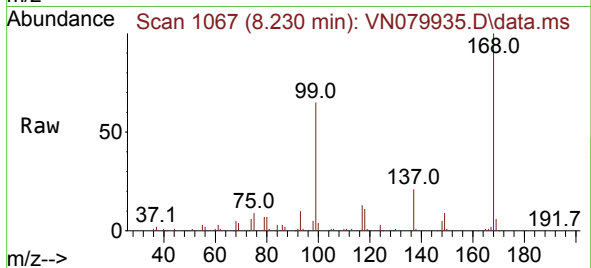
192 17.3 12.7 19.1



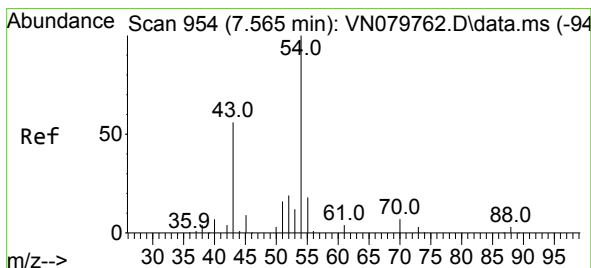
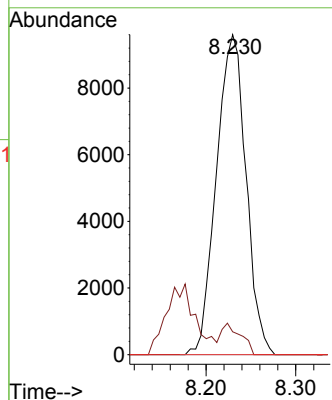
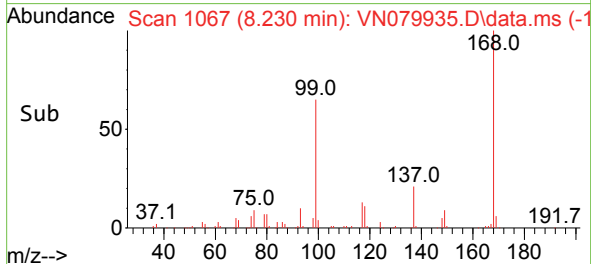


#36
1,1-Dichloropropene
Concen: 4.227 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Instrument :
MSVOA_N
ClientSampleId :

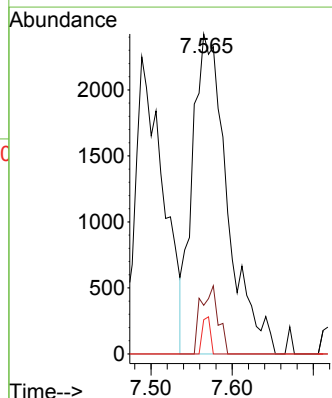
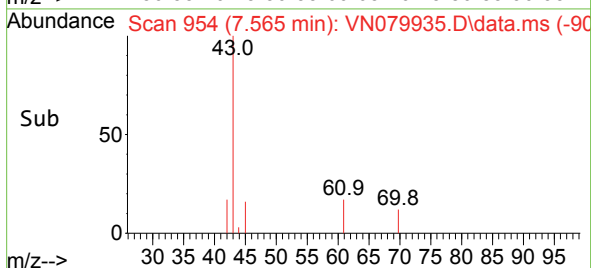
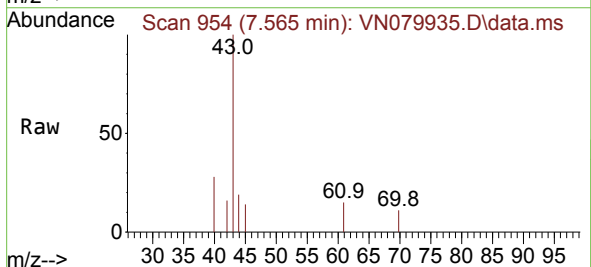


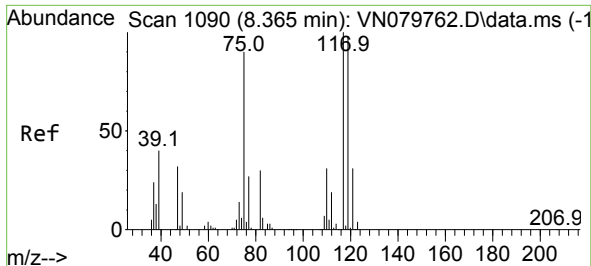
Tgt Ion: 75 Resp: 21979
Ion Ratio Lower Upper
75 100
110 6.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.525 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.000 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

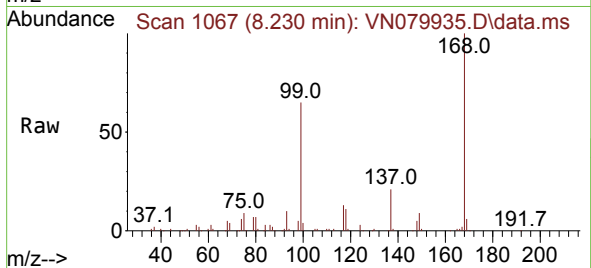
Tgt Ion: 43 Resp: 7271
Ion Ratio Lower Upper
43 100
61 10.5 13.2 19.8#
70 2.6 11.3 16.9#



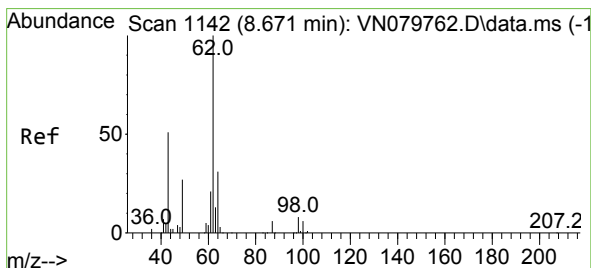
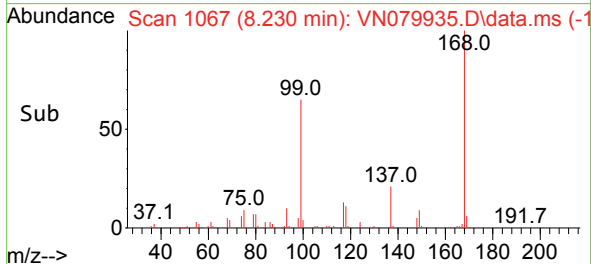
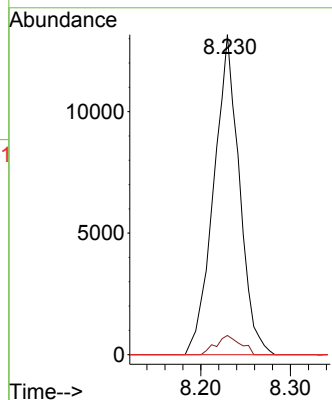


#38
Carbon Tetrachloride
Concen: 4.986 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.129 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Instrument :
MSVOA_N
ClientSampleId :

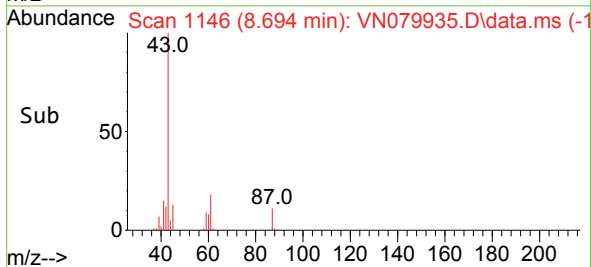
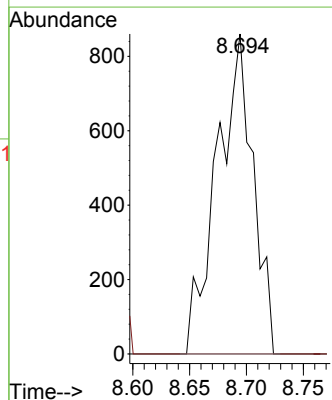
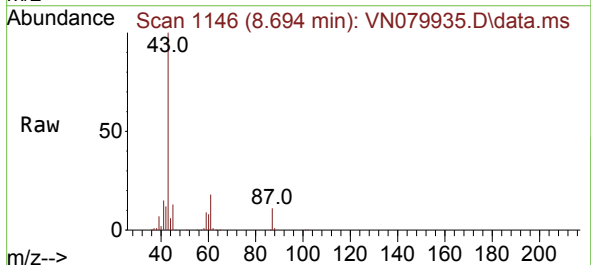


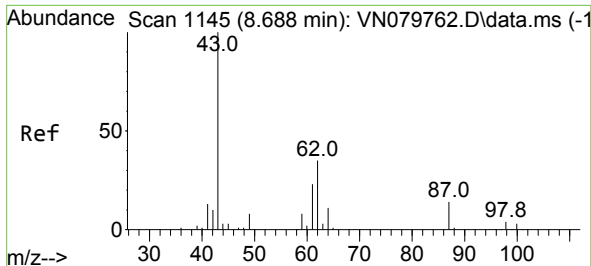
Tgt Ion:117 Resp: 26130
Ion Ratio Lower Upper
117 100
119 6.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.349 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.024 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 62 Resp: 1898
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

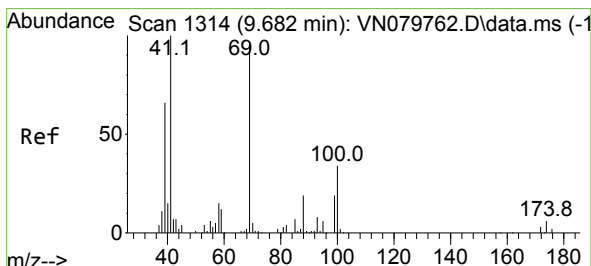
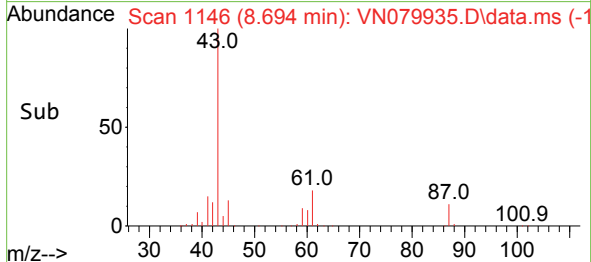
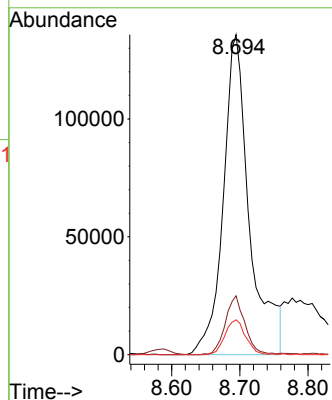
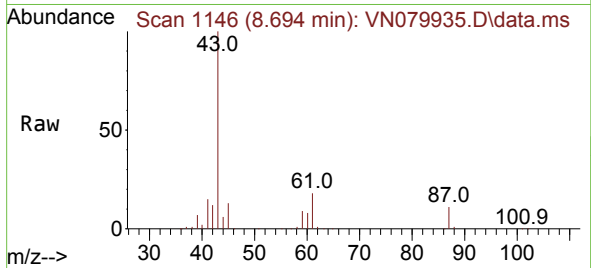




#43
Isopropyl Acetate
Concen: 43.383 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

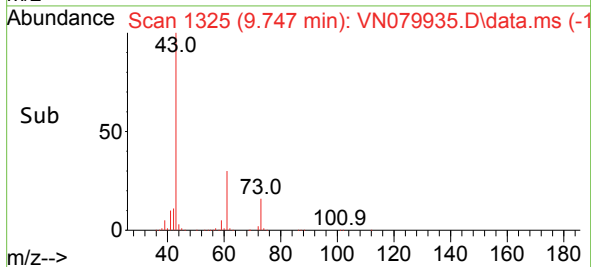
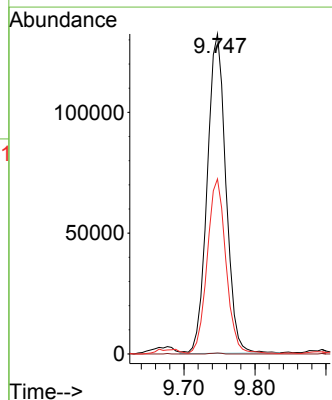
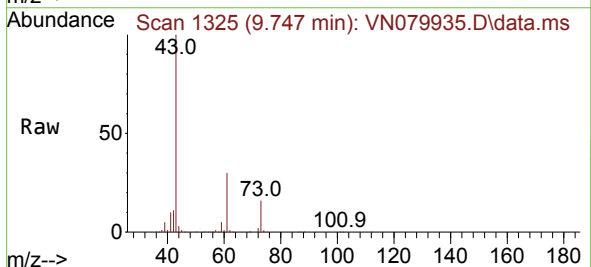
Instrument :
MSVOA_N
ClientSampleId :

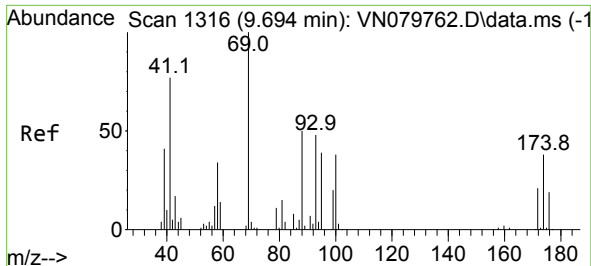
Tgt Ion: 43 Resp: 362822
Ion Ratio Lower Upper
43 100
61 13.8 24.7 37.1#
87 8.6 14.6 21.8#



#48
Methyl methacrylate
Concen: 65.908 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.065 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 41 Resp: 241435
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 54.9 54.6 81.8





#49

1,4-Dioxane

Concen: 4.866 ug/l

RT: 9.741 min Scan# 1316

Delta R.T. 0.047 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

ClientSampleId :

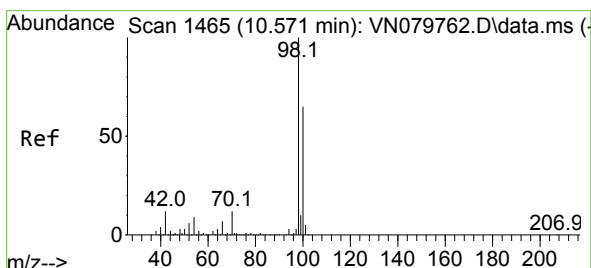
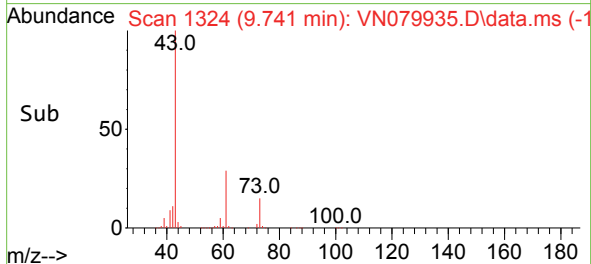
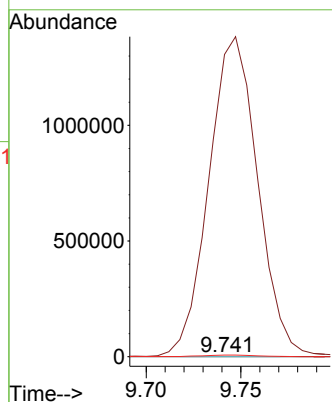
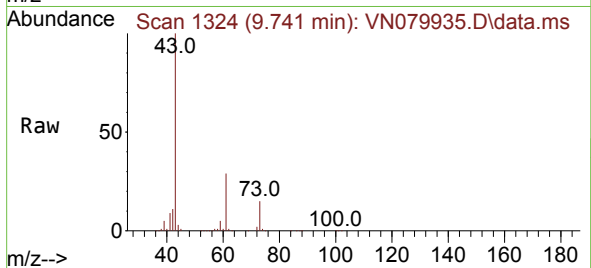
Tgt Ion: 88 Resp: 315

Ion Ratio Lower Upper

88 100

43 790101.0 17.0 25.6#

58 4461.9 47.0 70.4#



#50

Toluene-d8

Concen: 52.815 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079935.D

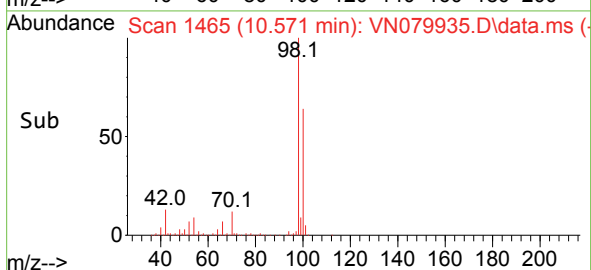
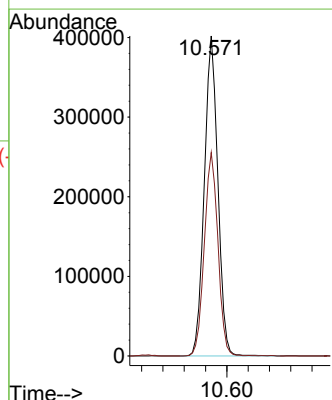
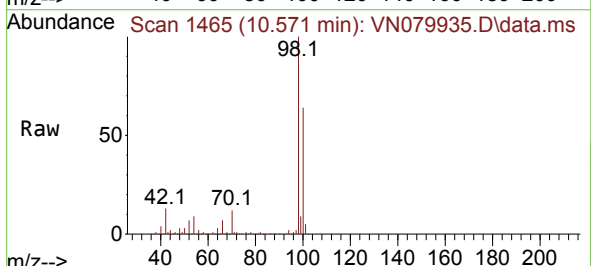
Acq: 06 Nov 2023 20:09

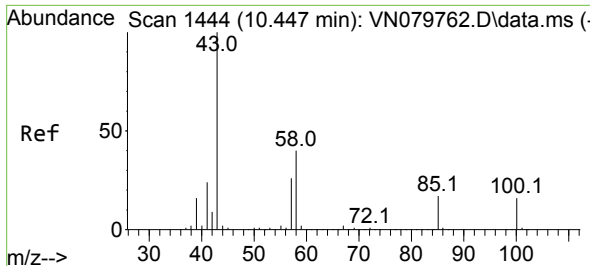
Tgt Ion: 98 Resp: 708082

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0

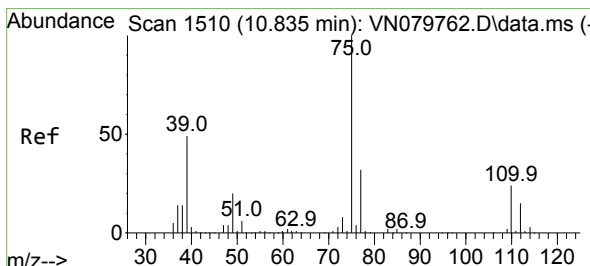
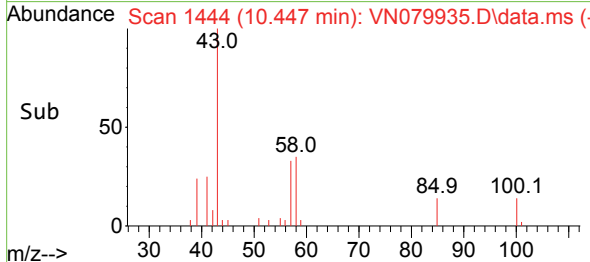
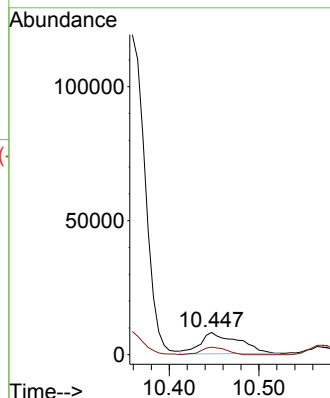
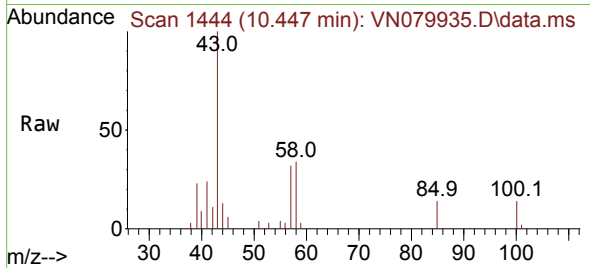




#51
4-Methyl-2-Pentanone
Concen: 4.964 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

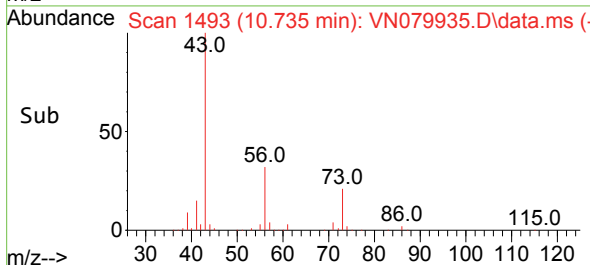
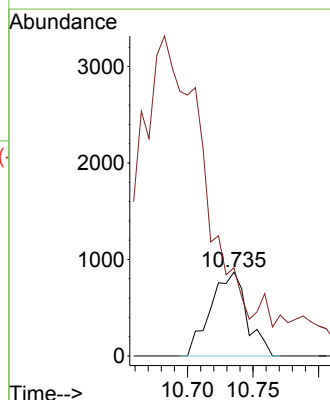
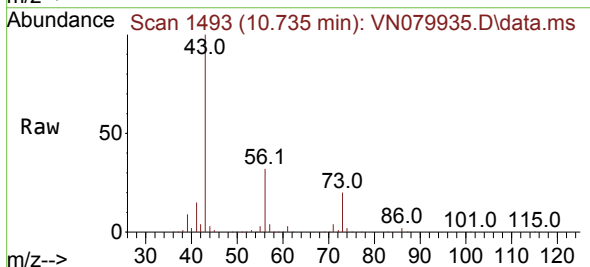
Instrument :
MSVOA_N
ClientSampleId :

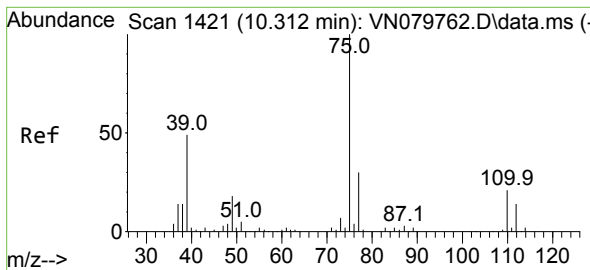
Tgt Ion: 43 Resp: 23374
Ion Ratio Lower Upper
43 100
58 23.4 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.293 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN079935.D
Acq: 06 Nov 2023 20:09

Tgt Ion: 75 Resp: 1666
Ion Ratio Lower Upper
75 100
77 56.3 25.4 38.0#

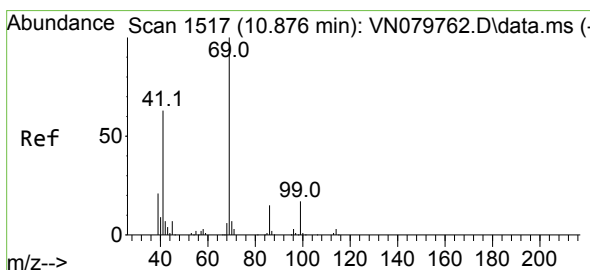
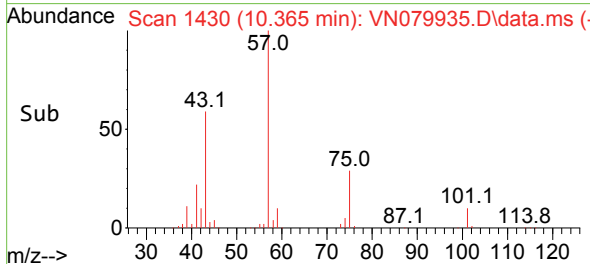
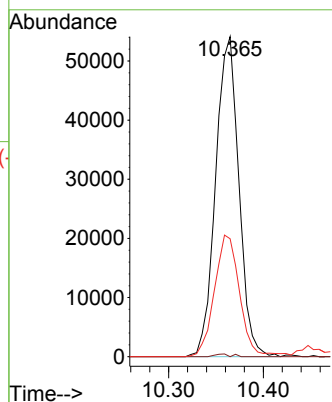
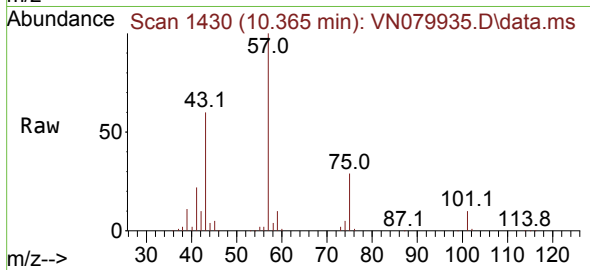




#54
 cis-1,3-Dichloropropene
 Concen: 14.883 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN079935.D
 Acq: 06 Nov 2023 20:09

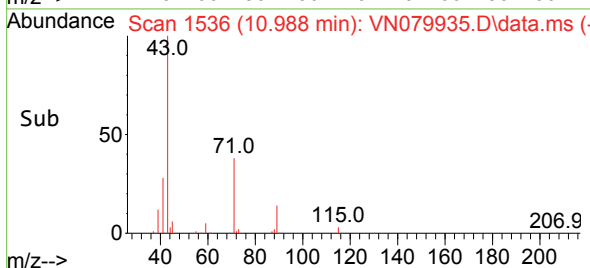
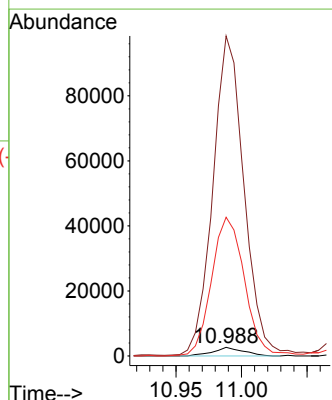
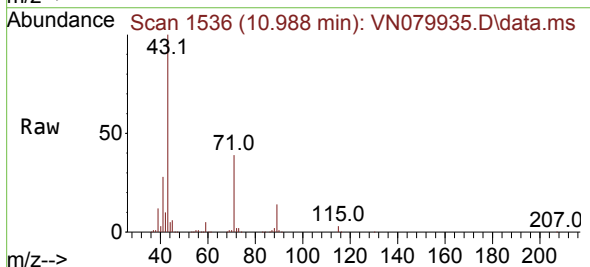
Instrument :
 MSVOA_N
 ClientSampleId :

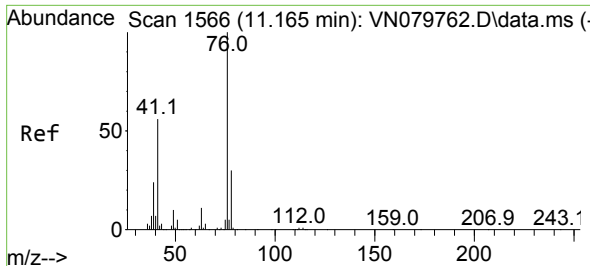
Tgt Ion: 75 Resp: 92175
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 36.9 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.806 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN079935.D
 Acq: 06 Nov 2023 20:09

Tgt Ion: 69 Resp: 4268
 Ion Ratio Lower Upper
 69 100
 41 3805.7 39.6 59.4#
 39 1751.1 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.891 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

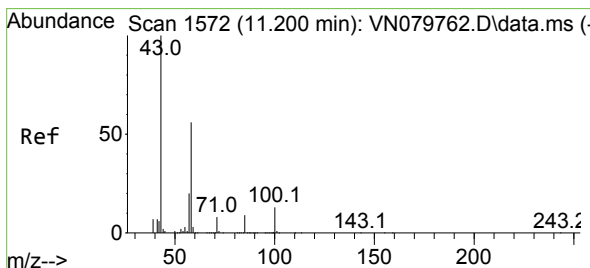
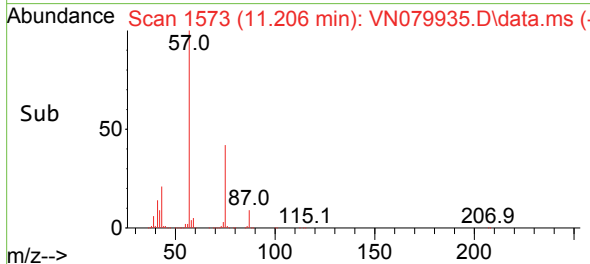
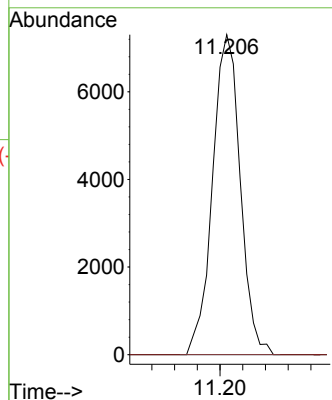
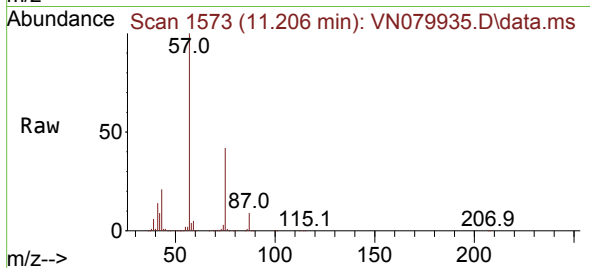
ClientSampleId :

Tgt Ion: 76 Resp: 12377

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 42.071 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079935.D

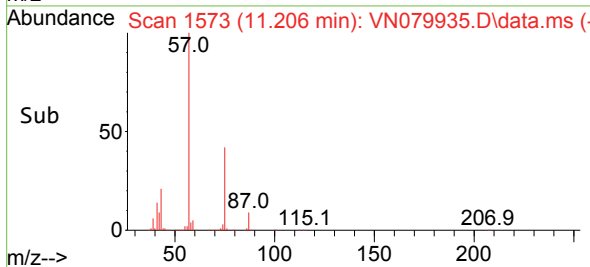
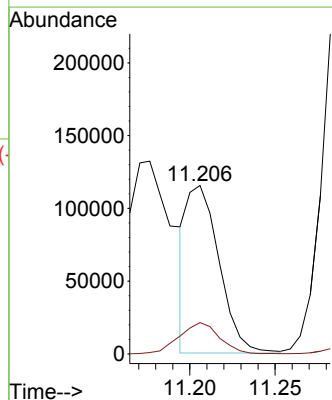
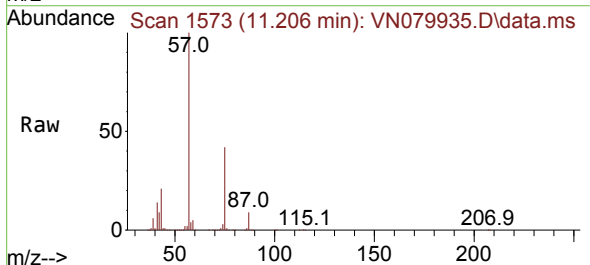
Acq: 06 Nov 2023 20:09

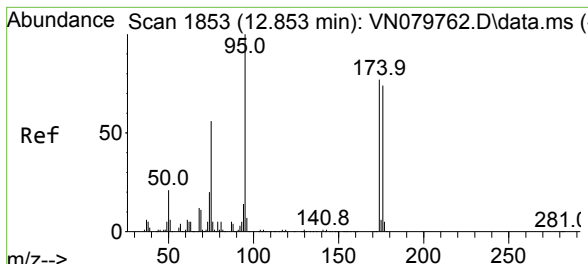
Tgt Ion: 43 Resp: 151537

Ion Ratio Lower Upper

43 100

58 23.6 31.7 95.1#

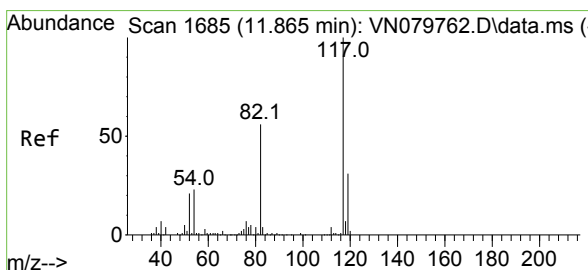
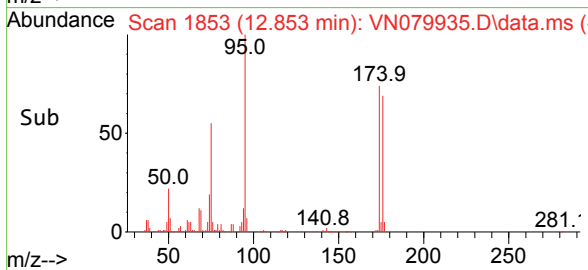
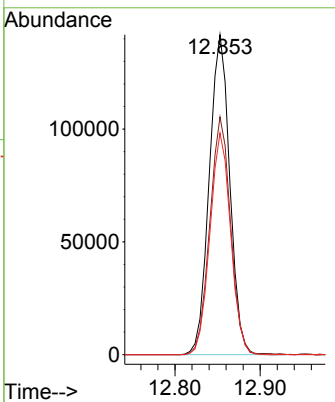
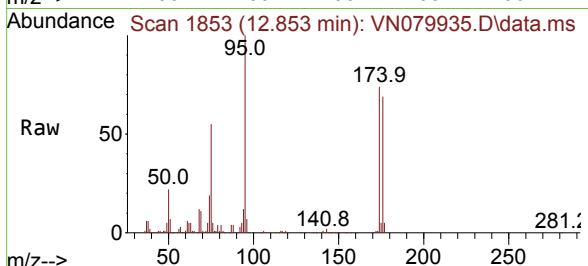




#62
 4-Bromofluorobenzene
 Concen: 53.275 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079935.D
 Acq: 06 Nov 2023 20:09

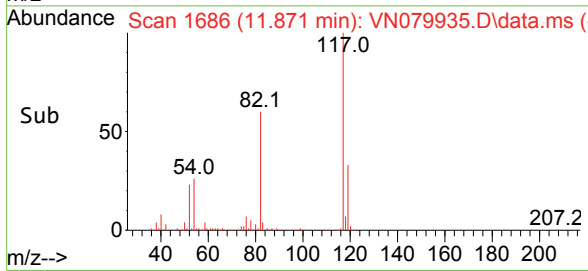
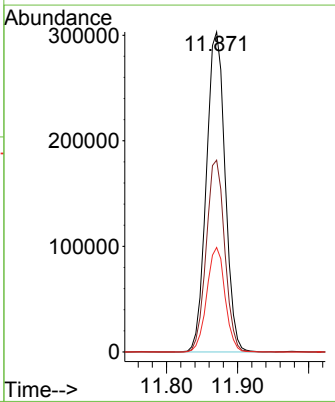
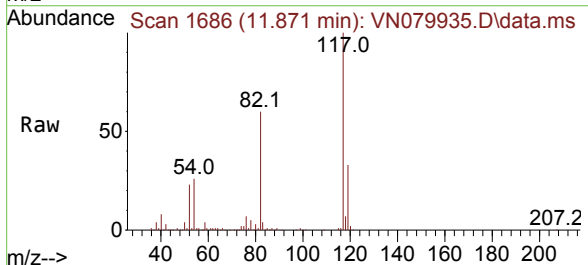
Instrument :
 MSVOA_N
 ClientSampleId :

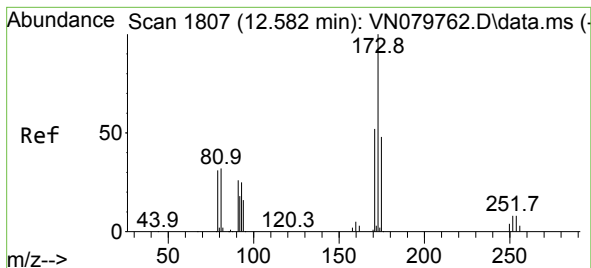
Tgt Ion:	95	Resp:	236880
Ion Ratio	Lower	Upper	
95	100		
174	75.2	0.0	143.8
176	69.8	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079935.D
 Acq: 06 Nov 2023 20:09

Tgt Ion:	117	Resp:	554906
Ion Ratio	Lower	Upper	
117	100		
82	59.9	44.0	66.0
119	32.6	25.6	38.4





#71

Bromoform

Concen: 0.515 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

ClientSampleId :

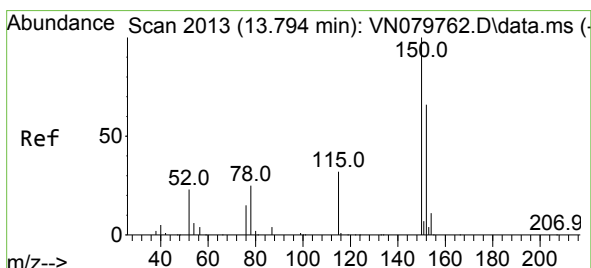
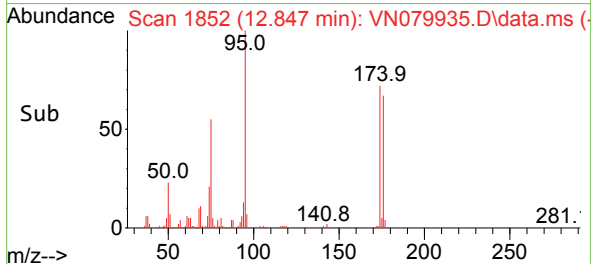
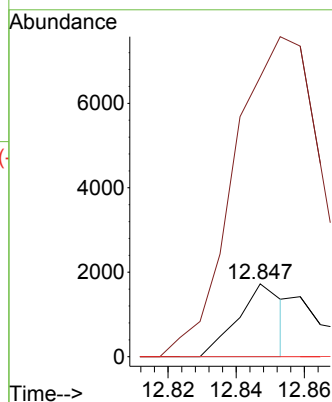
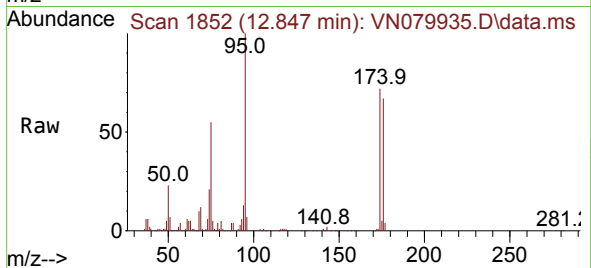
Tgt Ion:173 Resp: 1586

Ion Ratio Lower Upper

173 100

175 688.8 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

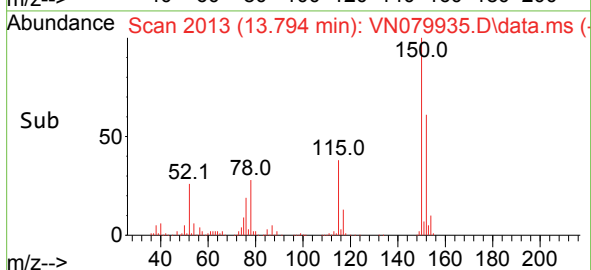
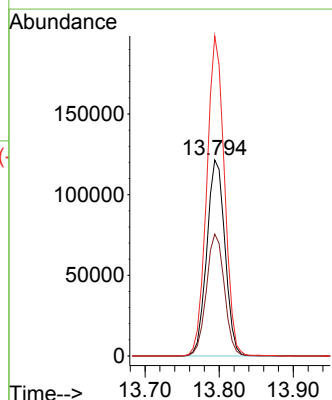
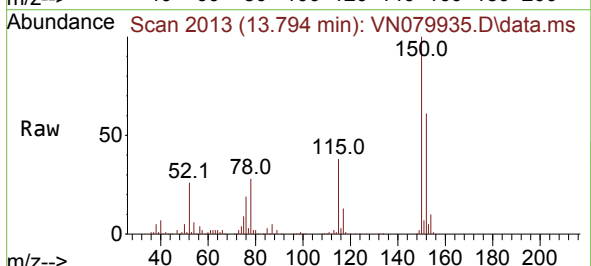
Tgt Ion:152 Resp: 206922

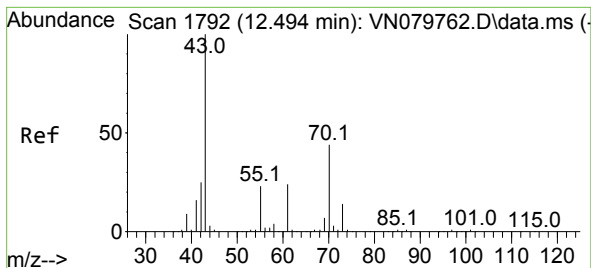
Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 158.8 0.0 355.8





#74

N-amy1 acetate

Concen: 0.334 ug/l

RT: 12.494 min Scan# 1

Delta R.T. 0.000 min

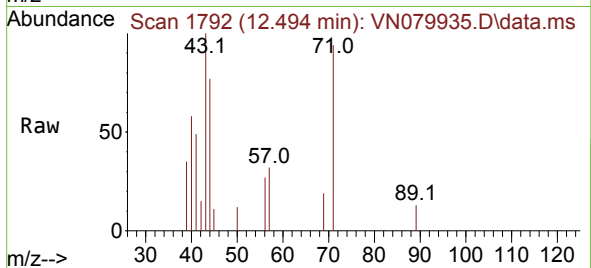
Lab File: VN079935.D

Acq: 06 Nov 2023 20:09

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 2287

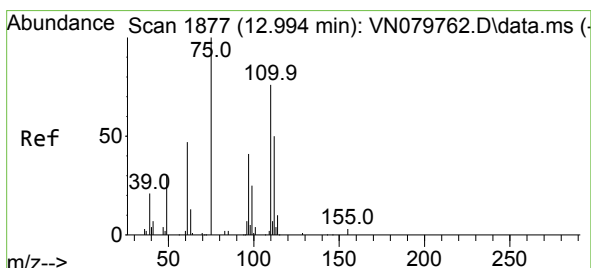
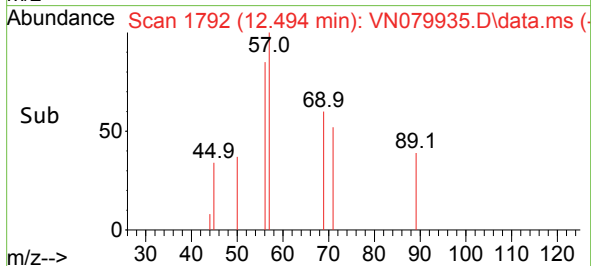
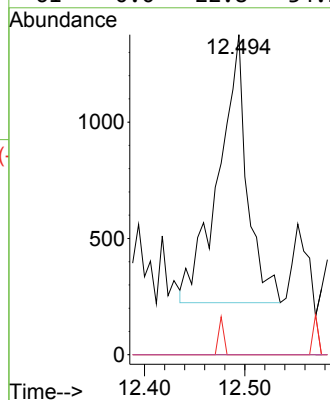
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.681 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079935.D

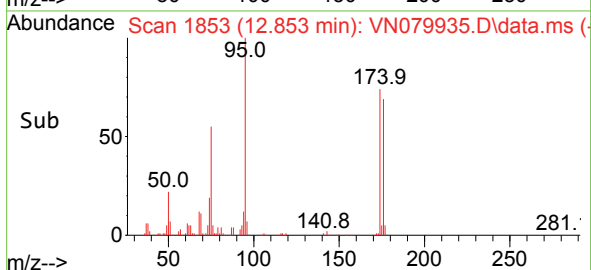
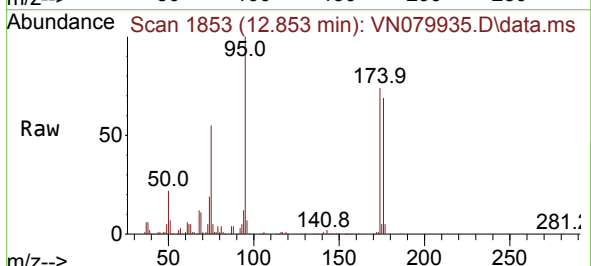
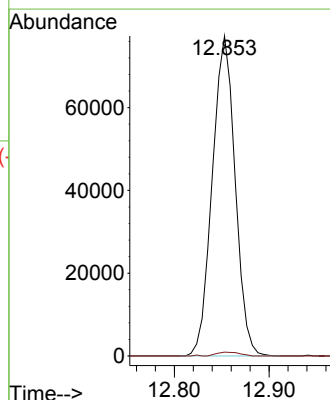
Acq: 06 Nov 2023 20:09

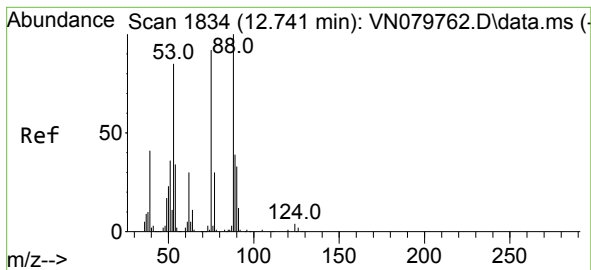
Tgt Ion: 75 Resp: 129615

Ion Ratio Lower Upper

75 100

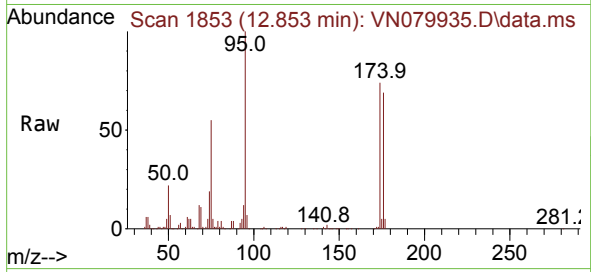
77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.593 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079935.D
 Acq: 06 Nov 2023 20:09

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 129615
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

