

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077836.D
 Acq On : 24 May 2023 03:26
 Operator : JC\MD
 Sample : 02891-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 290-328

Quant Time: May 24 05:59:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

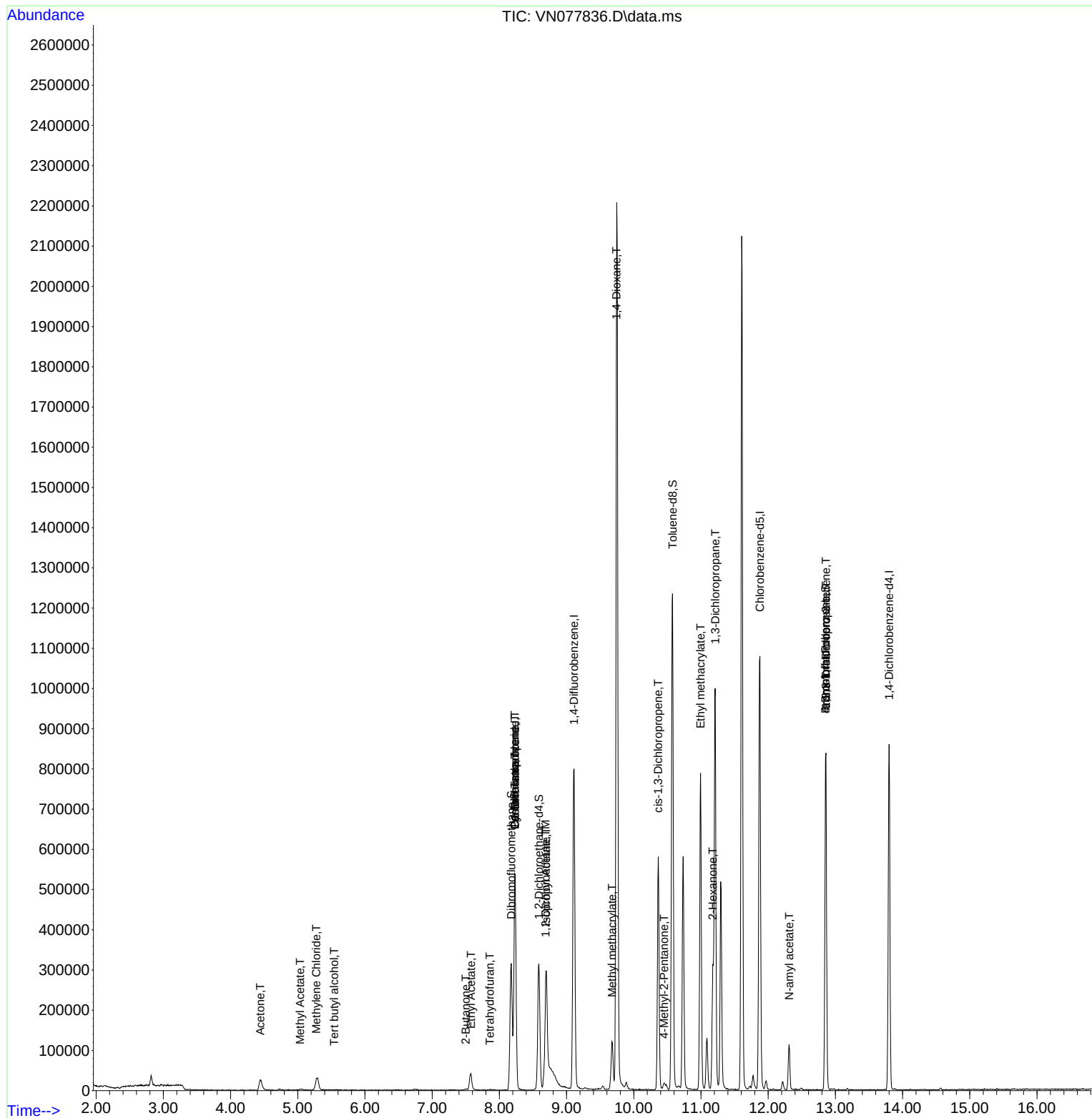
Internal Standards						
1) Pentafluorobenzene	8.229	168	387765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	733023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	659862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	235248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	260867	44.962	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.920%		
35) Dibromofluoromethane	8.177	113	229672	48.049	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.100%		
50) Toluene-d8	10.576	98	909108	49.412	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.820%		
62) 4-Bromofluorobenzene	12.853	95	300252	46.207	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.420%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1243	Below Cal	#	60
11) Tert butyl alcohol	5.541	59	285	0.356	ug/l #	75
13) Acrolein	4.189	56	65	Below Cal	#	1
16) Acetone	4.441	43	51312	28.110	ug/l	90
18) Methyl Acetate	5.036	43	5105	0.667	ug/l #	50
20) Methylene Chloride	5.277	84	25581	3.549	ug/l	90
25) 2-Butanone	7.500	43	3485	1.220	ug/l	96
29) Tetrahydrofuran	7.859	42	914	0.489	ug/l #	36
31) Cyclohexane	8.229	56	8758	1.111	ug/l #	39
36) 1,1-Dichloropropene	8.229	75	32686	4.675	ug/l #	49
37) Ethyl Acetate	7.577	43	63789	10.237	ug/l #	94
38) Carbon Tetrachloride	8.229	117	43251	6.126	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2569	0.343	ug/l #	73
43) Isopropyl Acetate	8.694	43	482160	47.370	ug/l #	70
48) Methyl methacrylate	9.676	41	6414	1.329	ug/l #	33
49) 1,4-Dioxane	9.741	88	369	4.048	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	17869	2.953	ug/l #	71
54) cis-1,3-Dichloropropene	10.365	75	109247	12.985	ug/l #	68
56) Ethyl methacrylate	10.994	69	2675	0.347	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	11941	1.366	ug/l #	42
59) 2-Hexanone	11.176	43	254583	56.888	ug/l #	19
71) Bromoform	12.853	173	1734	0.527	ug/l #	1
74) N-amyl acetate	12.312	43	37502	5.003	ug/l #	45
76) 1,2,3-Trichloropropane	12.859	75	159475	27.069	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	159475	86.526	ug/l #	15

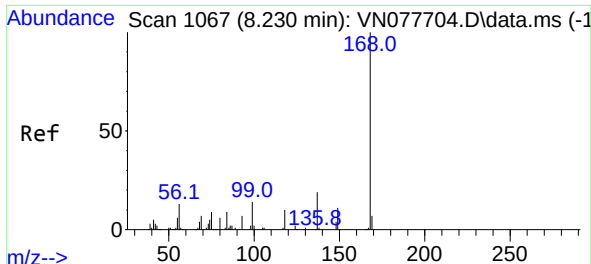
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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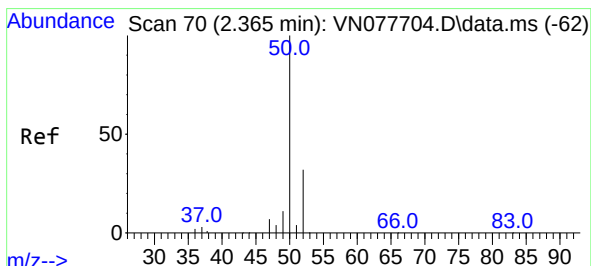
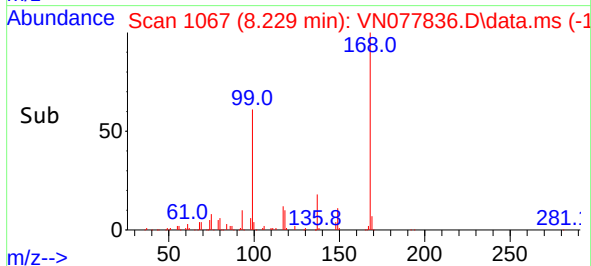
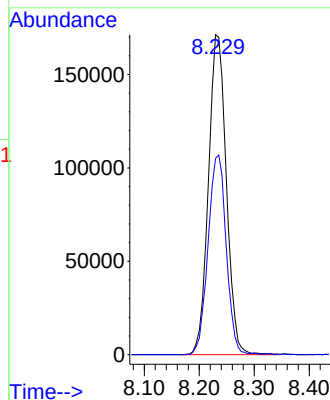
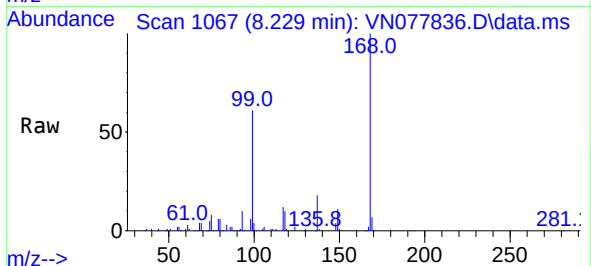




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

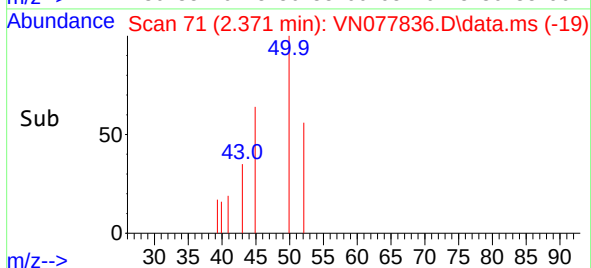
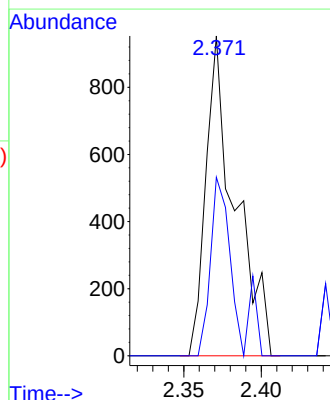
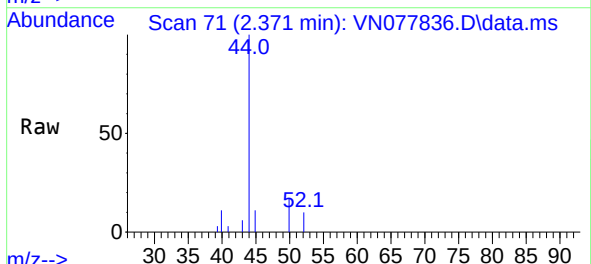
Instrument :
MSVOA_N
ClientSampleId :
290-328

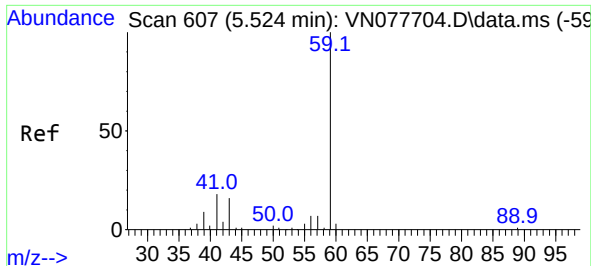
Tgt Ion:168 Resp: 387765
Ion Ratio Lower Upper
168 100
99 61.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 50 Resp: 1243
Ion Ratio Lower Upper
50 100
52 55.8 26.5 39.7#





#11

Tert butyl alcohol

Concen: 0.356 ug/l

RT: 5.541 min Scan# 61

Delta R.T. 0.011 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

Instrument :

MSVOA_N

ClientSampleId :

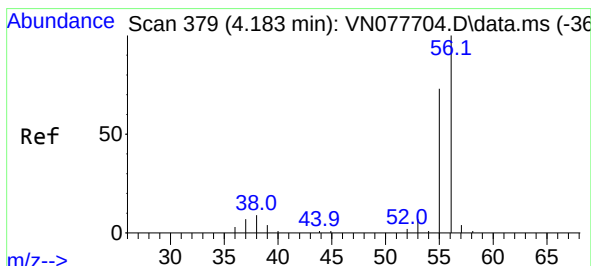
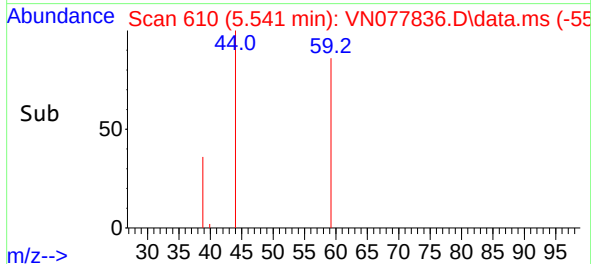
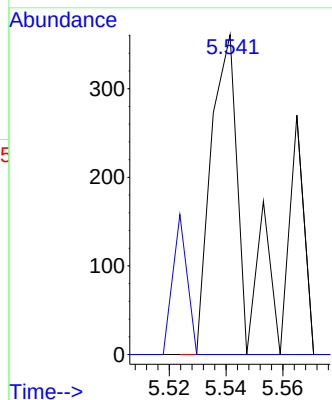
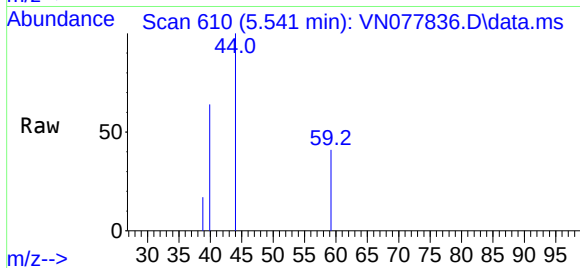
290-328

Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

59 100

57 19.6 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.189 min Scan# 380

Delta R.T. -0.000 min

Lab File: VN077836.D

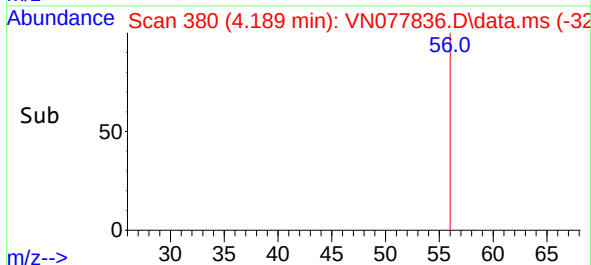
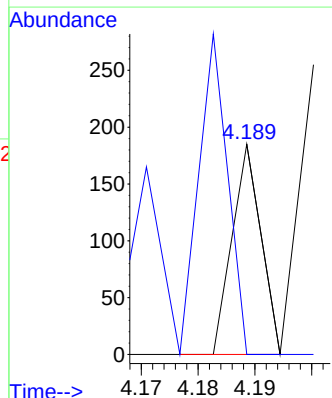
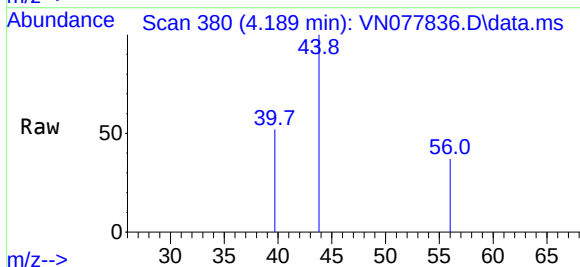
Acq: 24 May 2023 03:26

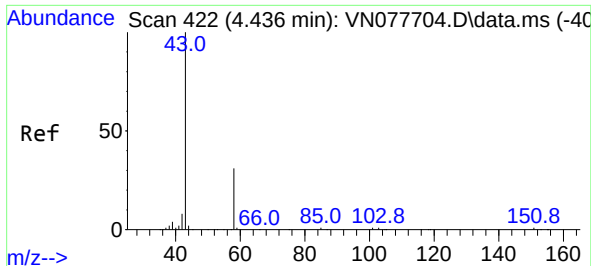
Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 243.1 54.5 81.7#

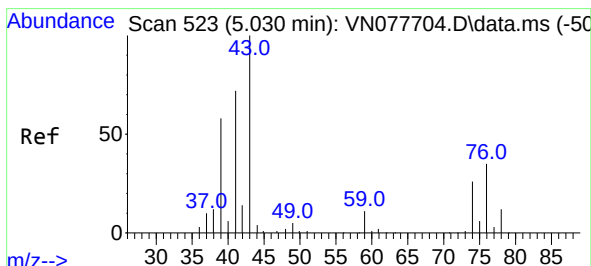
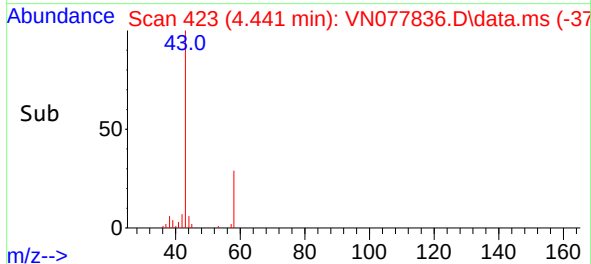
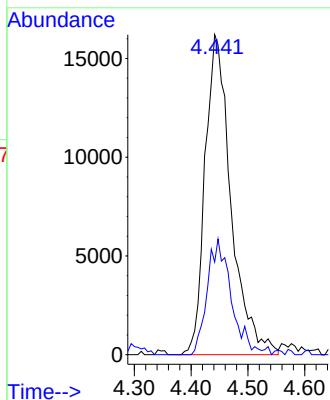
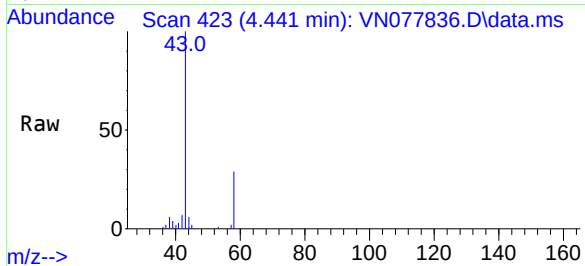




#16
Acetone
Concen: 28.110 ug/l
RT: 4.441 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

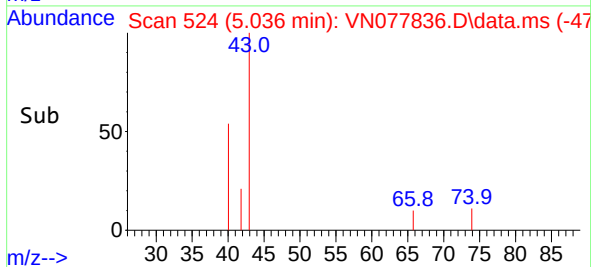
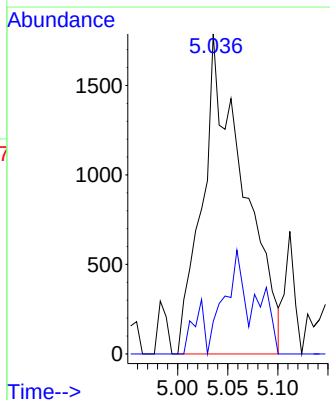
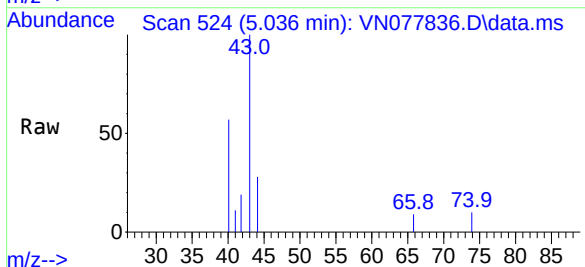
Instrument :
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ClientSampleId :
290-328

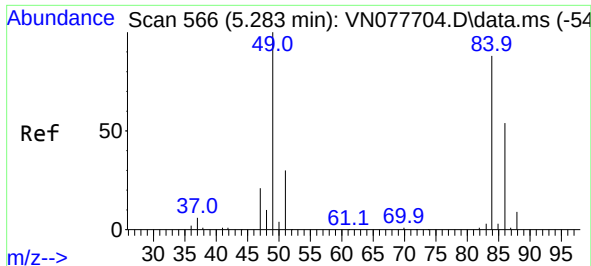
Tgt Ion: 43 Resp: 51312
Ion Ratio Lower Upper
43 100
58 29.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.667 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

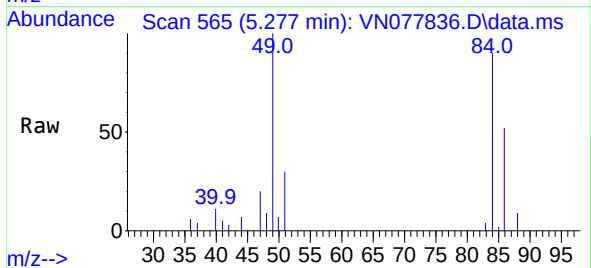
Tgt Ion: 43 Resp: 5105
Ion Ratio Lower Upper
43 100
74 4.4 26.2 39.4#





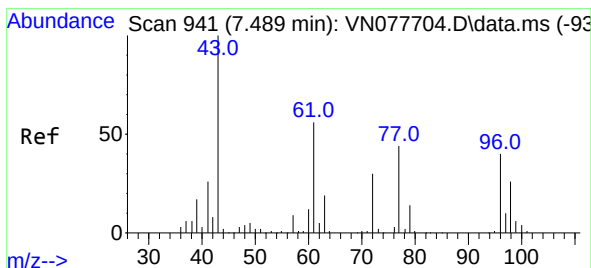
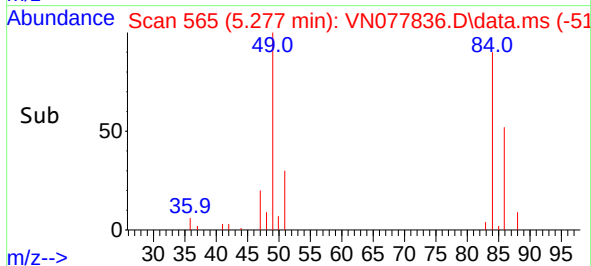
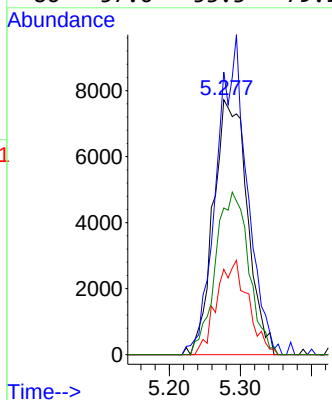
#20
Methylene Chloride
Concen: 3.549 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Instrument :
MSVOA_N
ClientSampleId :
290-328



Tgt Ion: 84 Resp: 25581

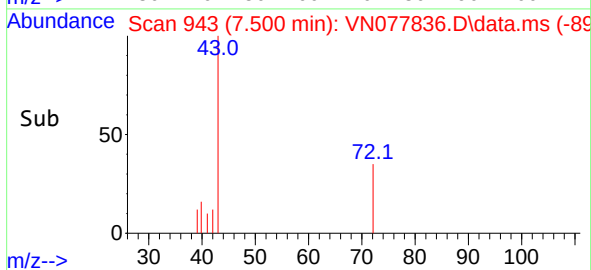
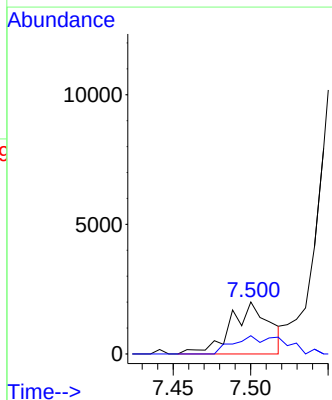
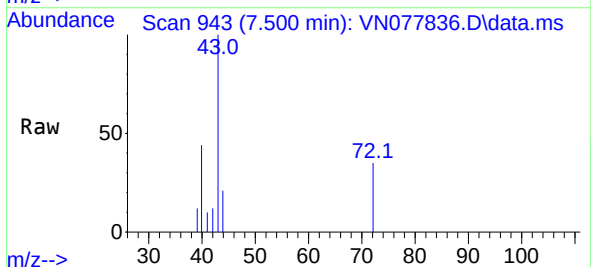
Ion	Ratio	Lower	Upper
84	100		
49	110.9	79.7	119.5
51	33.4	25.2	37.8
86	57.6	53.3	79.9

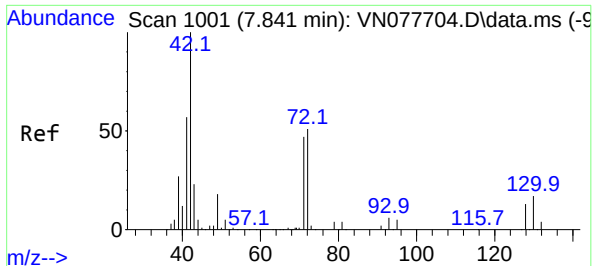


#25
2-Butanone
Concen: 1.220 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 43 Resp: 3485

Ion	Ratio	Lower	Upper
43	100		
72	35.1	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.489 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

Instrument :

MSVOA_N

ClientSampleId :

290-328

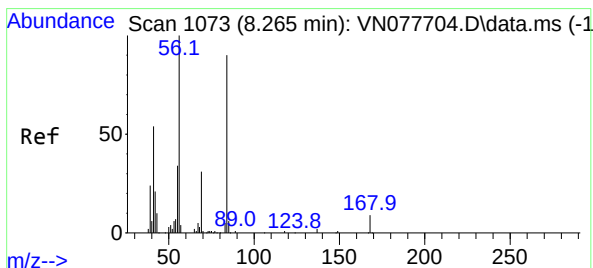
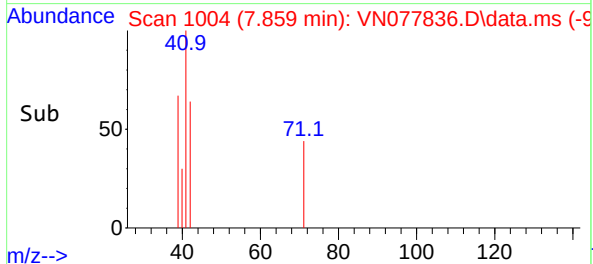
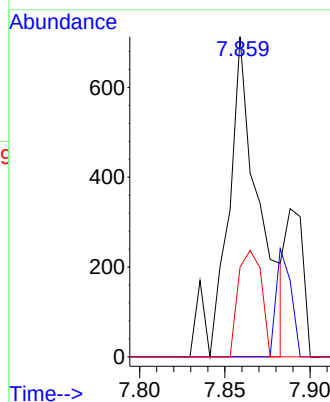
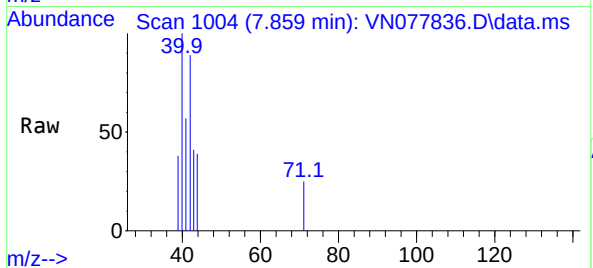
Tgt Ion: 42 Resp: 914

Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

71 24.5 47.4 71.2#



#31

Cyclohexane

Concen: 1.111 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.036 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

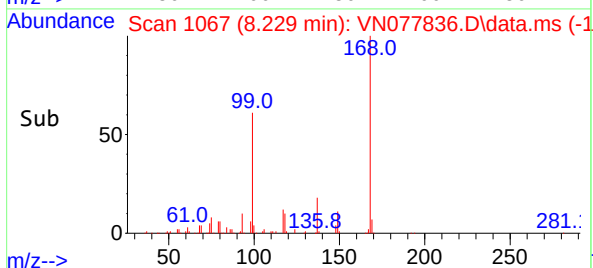
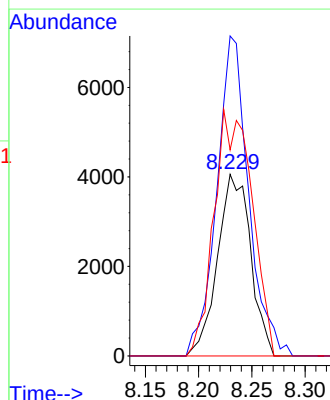
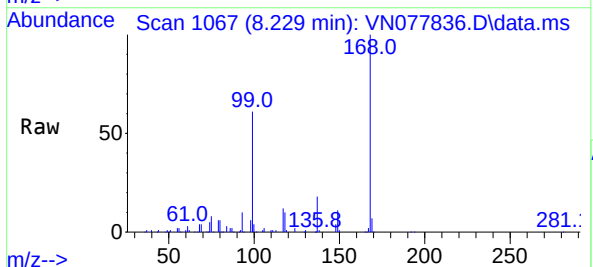
Tgt Ion: 56 Resp: 8758

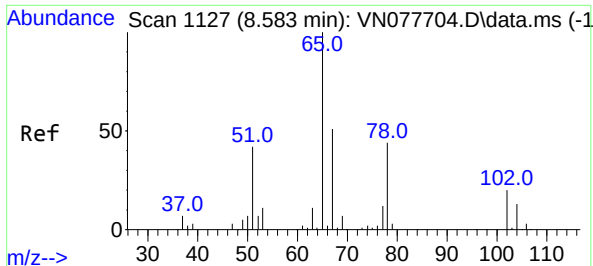
Ion Ratio Lower Upper

56 100

69 165.6 26.8 40.2#

84 106.7 81.8 122.6

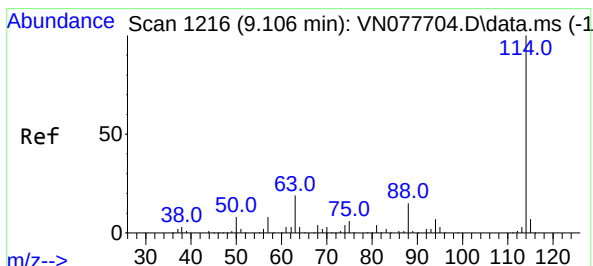
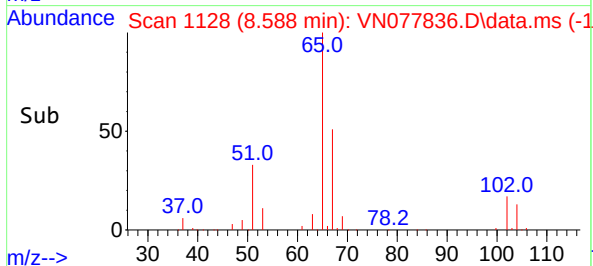
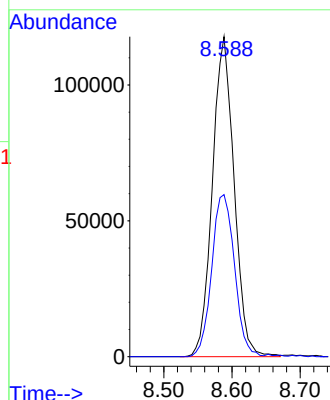
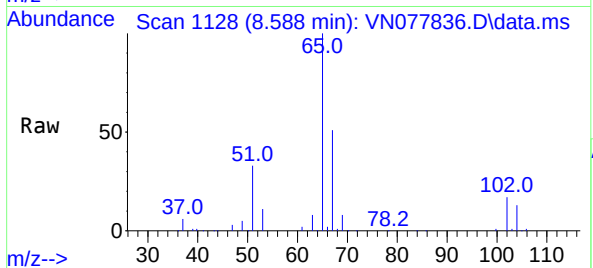




#33
1,2-Dichloroethane-d4
Concen: 44.962 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

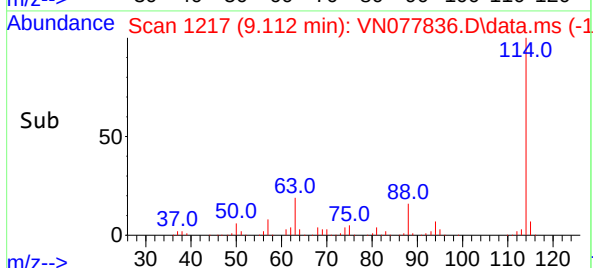
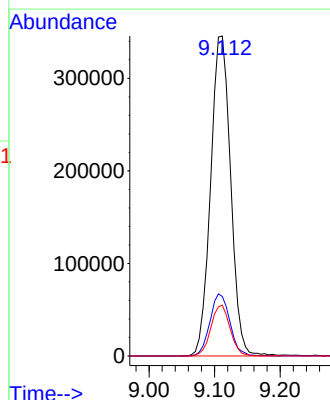
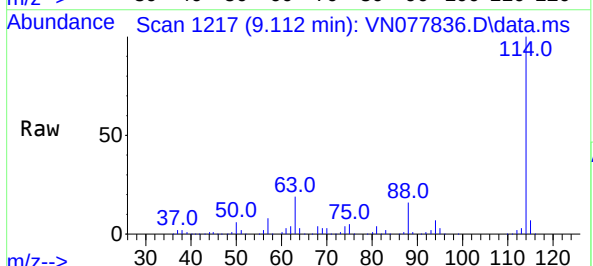
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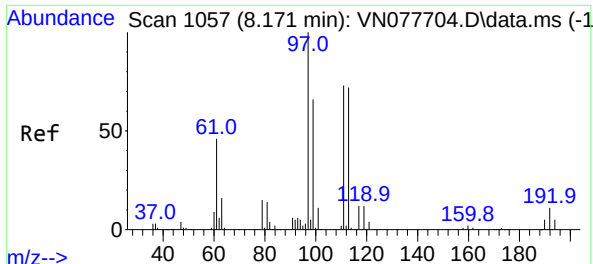
Tgt Ion: 65 Resp: 260867
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 114 Resp: 733023
Ion Ratio Lower Upper
114 100
63 18.6 0.0 36.4
88 15.9 0.0 30.6

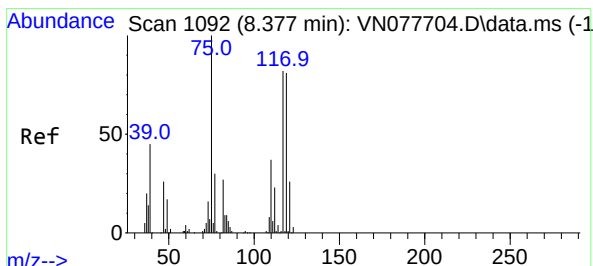
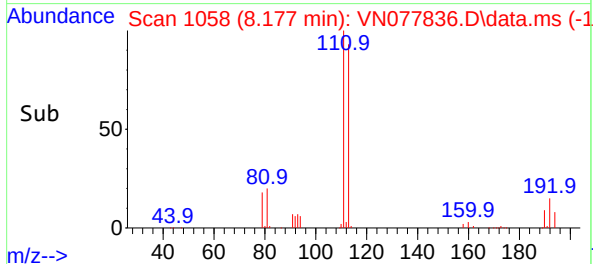
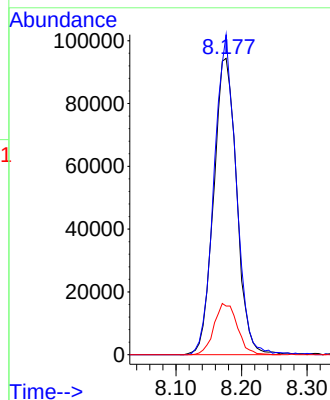
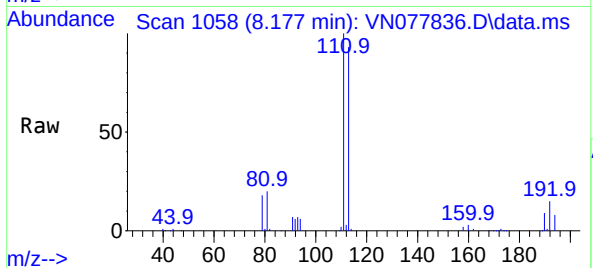




#35
Dibromofluoromethane
Concen: 48.049 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

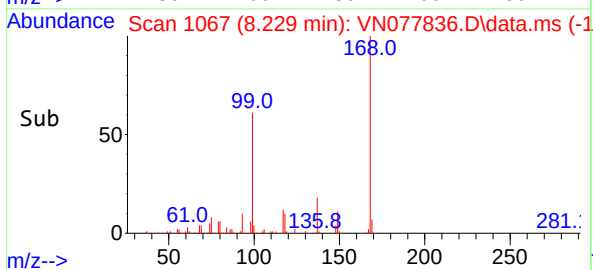
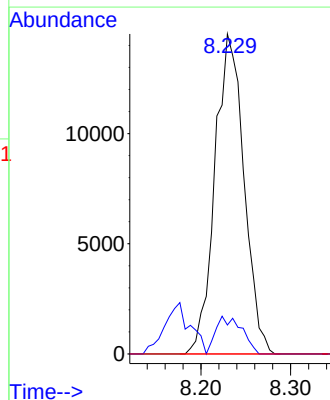
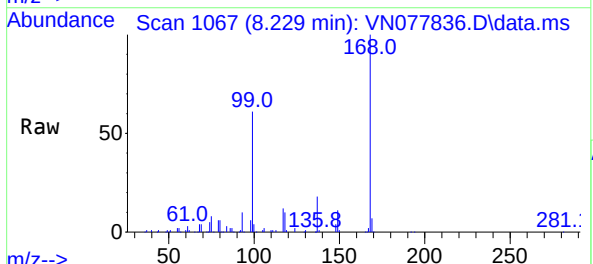
Instrument :
MSVOA_N
ClientSampleId :
290-328

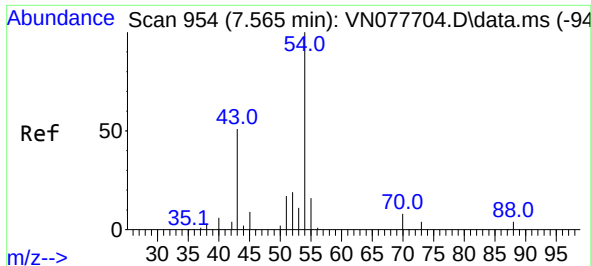
Tgt Ion:113 Resp: 229672
Ion Ratio Lower Upper
113 100
111 103.9 82.6 123.8
192 17.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.675 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

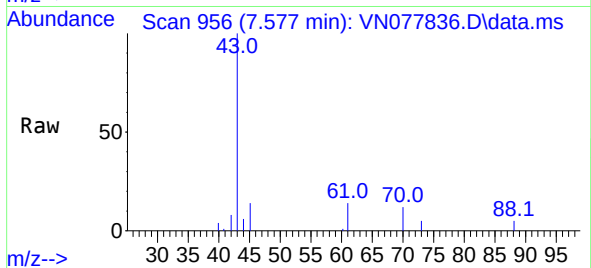
Tgt Ion: 75 Resp: 32686
Ion Ratio Lower Upper
75 100
110 10.5 19.1 57.3#
77 0.0 25.0 37.4#



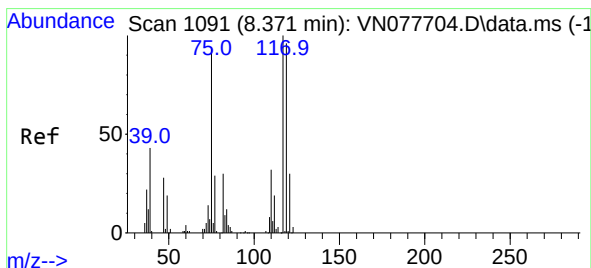
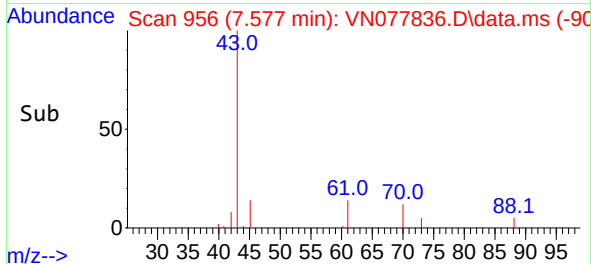
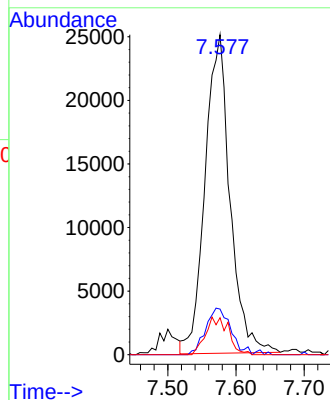


#37
Ethyl Acetate
Concen: 10.237 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Instrument :
MSVOA_N
ClientSampleId :
290-328

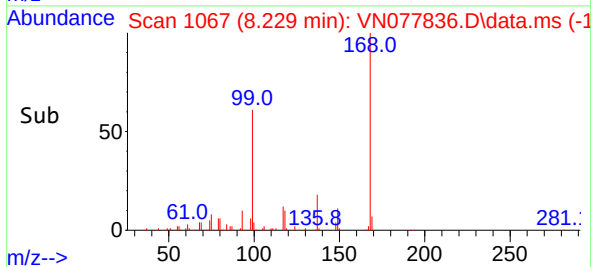
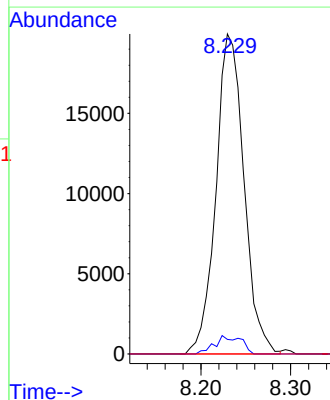
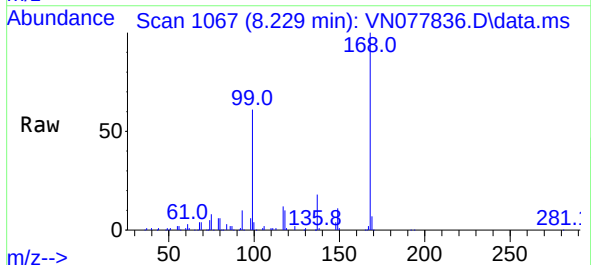


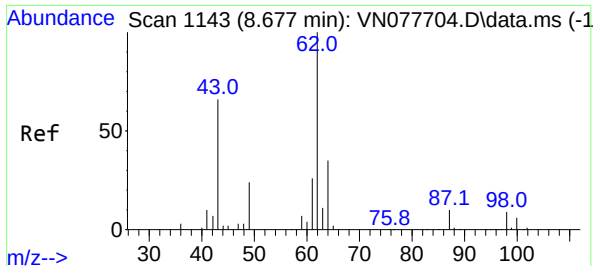
Tgt Ion: 43 Resp: 63789
Ion Ratio Lower Upper
43 100
61 14.8 13.2 19.8
70 10.8 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 6.126 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.142 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 117 Resp: 43251
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.343 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

Instrument :

MSVOA_N

ClientSampleId :

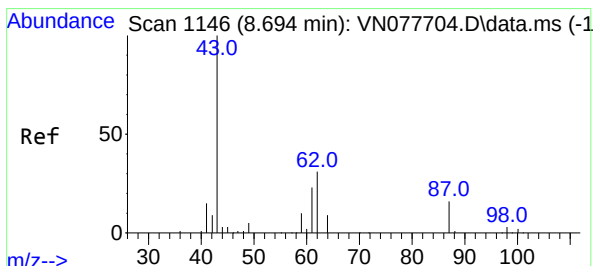
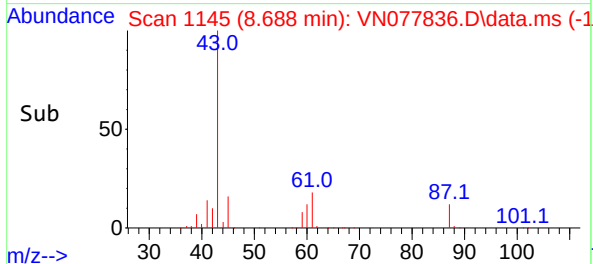
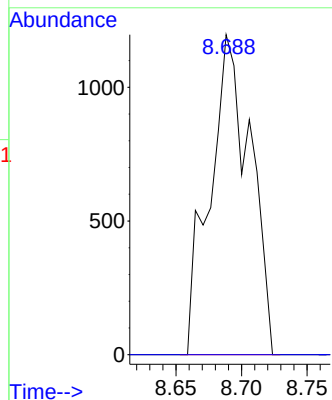
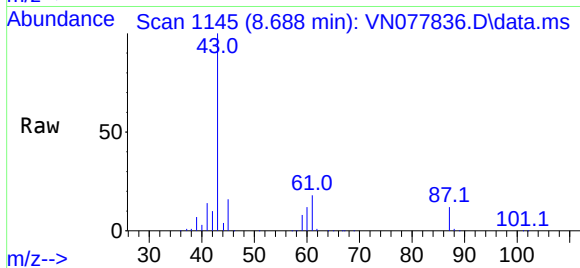
290-328

Tgt Ion: 62 Resp: 2569

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 47.370 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

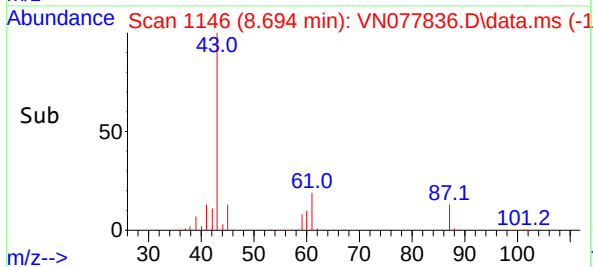
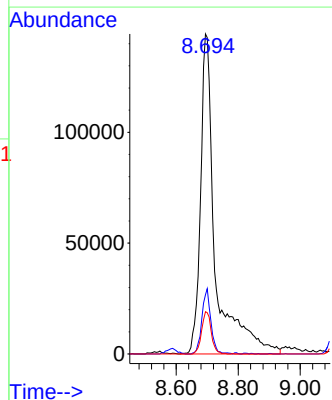
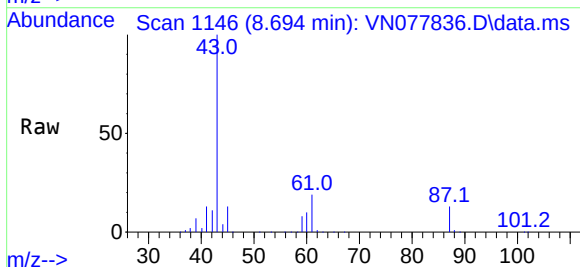
Tgt Ion: 43 Resp: 482160

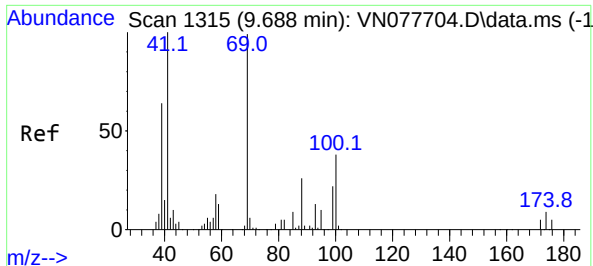
Ion Ratio Lower Upper

43 100

61 12.2 24.7 37.1#

87 8.5 14.6 21.8#





#48

Methyl methacrylate

Concen: 1.329 ug/l

RT: 9.676 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

Instrument :

MSVOA_N

ClientSampleId :

290-328

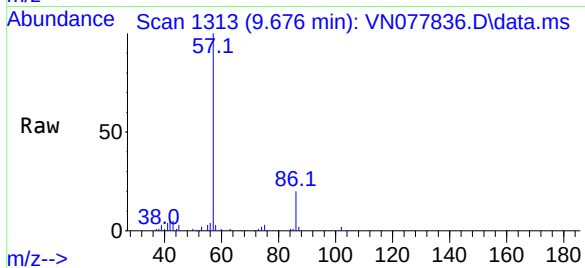
Tgt Ion: 41 Resp: 6414

Ion Ratio Lower Upper

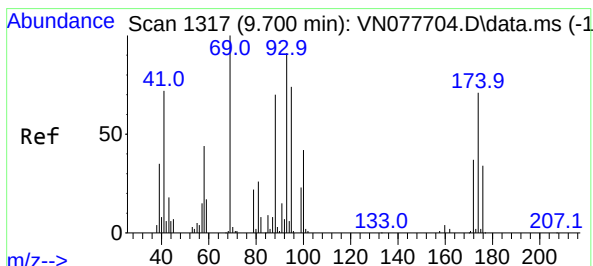
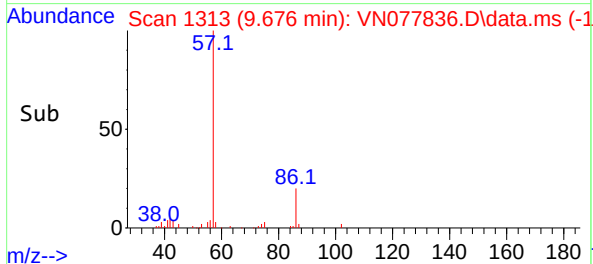
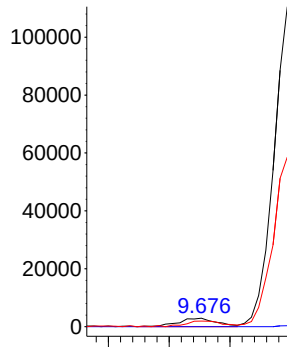
41 100

69 0.0 90.4 135.6#

39 65.9 54.6 81.8



Abundance



#49

1,4-Dioxane

Concen: 4.048 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.047 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

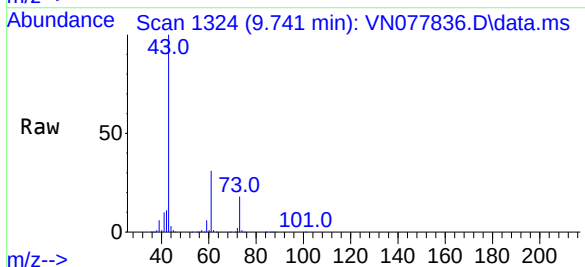
Tgt Ion: 88 Resp: 369

Ion Ratio Lower Upper

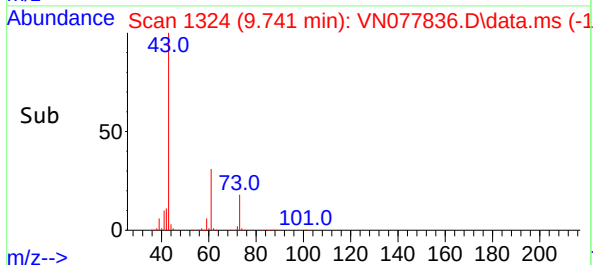
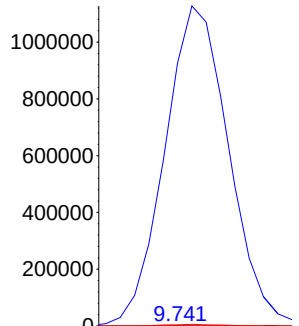
88 100

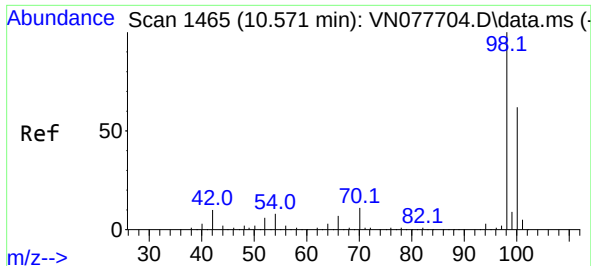
43 564468.3 17.0 25.6#

58 2635.0 47.0 70.4#



Abundance

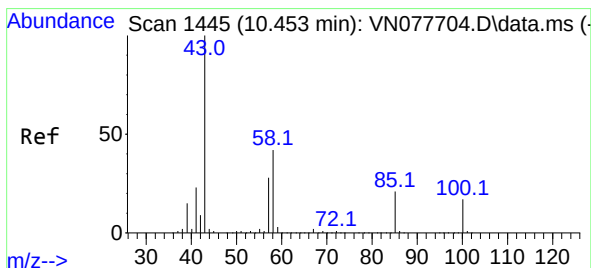
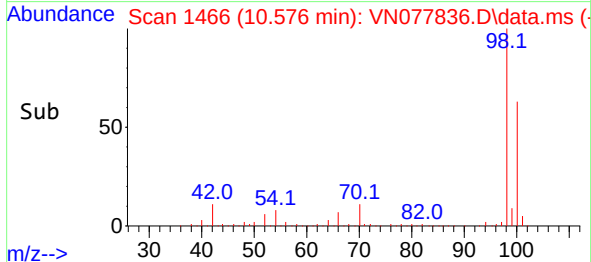
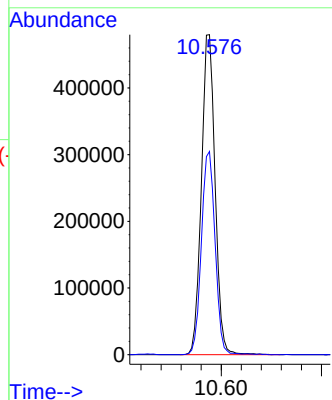
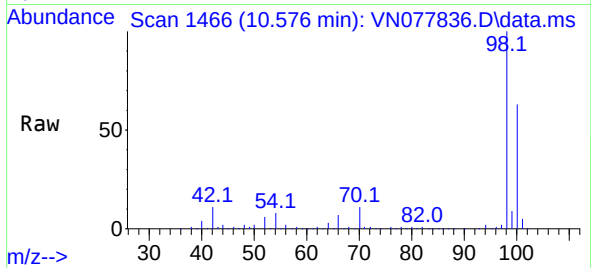




#50
Toluene-d8
Concen: 49.412 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

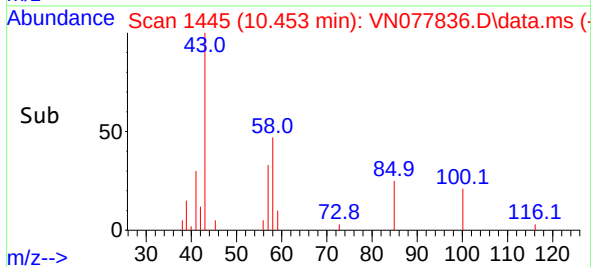
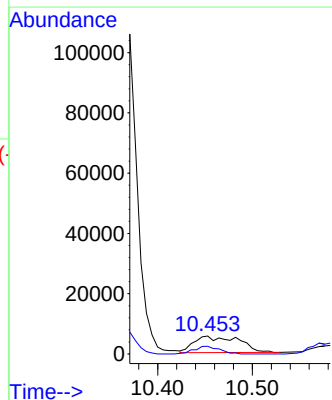
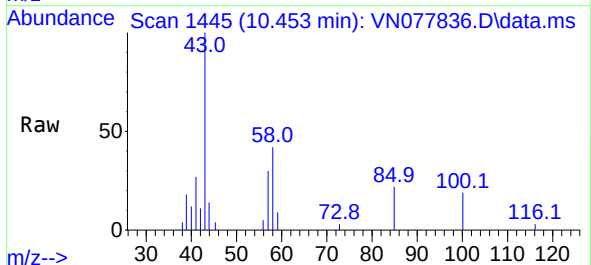
Instrument :
MSVOA_N
ClientSampleId :
290-328

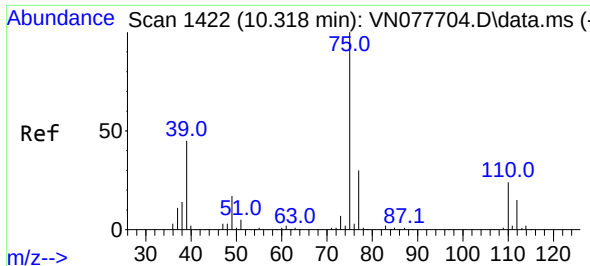
Tgt Ion: 98 Resp: 909108
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.953 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 43 Resp: 17869
Ion Ratio Lower Upper
43 100
58 26.4 36.6 54.8#

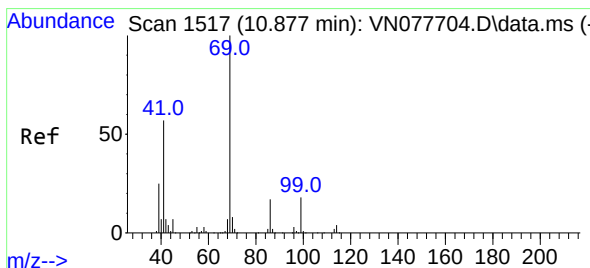
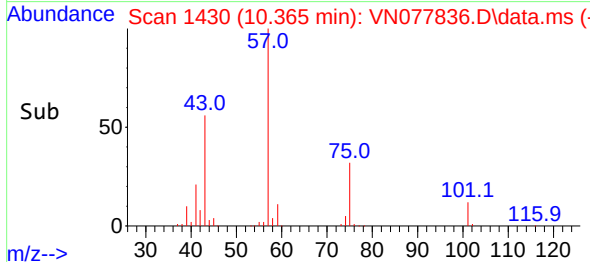
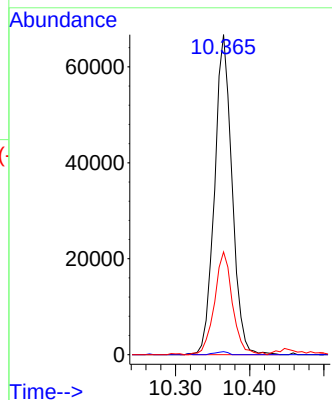
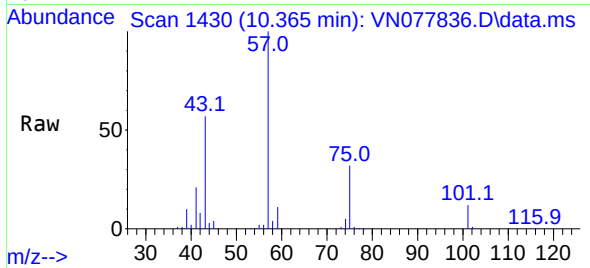




#54
 cis-1,3-Dichloropropene
 Concen: 12.985 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN077836.D
 Acq: 24 May 2023 03:26

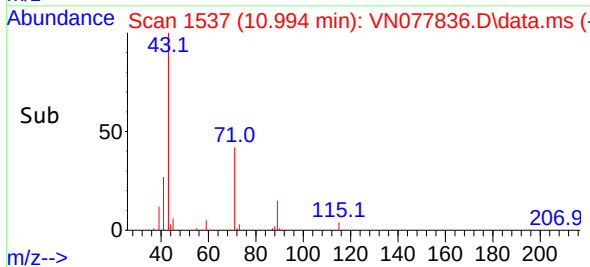
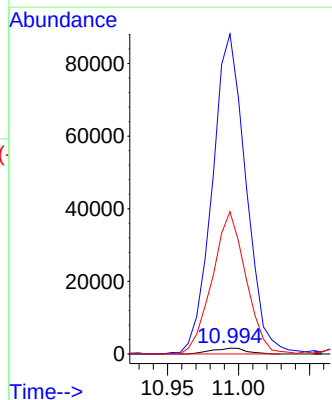
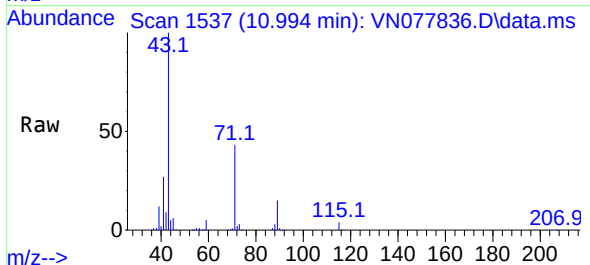
Instrument :
 MSVOA_N
 ClientSampleId :
 290-328

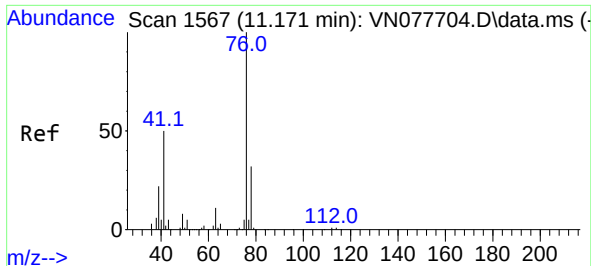
Tgt Ion: 75 Resp: 109247
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 31.8 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.347 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN077836.D
 Acq: 24 May 2023 03:26

Tgt Ion: 69 Resp: 2675
 Ion Ratio Lower Upper
 69 100
 41 5447.8 39.6 59.4#
 39 2408.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.366 ug/l

RT: 11.212 min Scan# 11941

Delta R.T. 0.041 min

Lab File: VN077836.D

Acq: 24 May 2023 03:26

Instrument :

MSVOA_N

ClientSampleId :

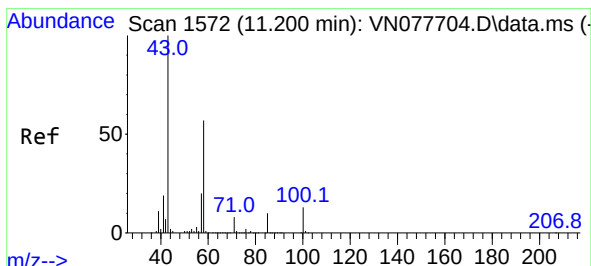
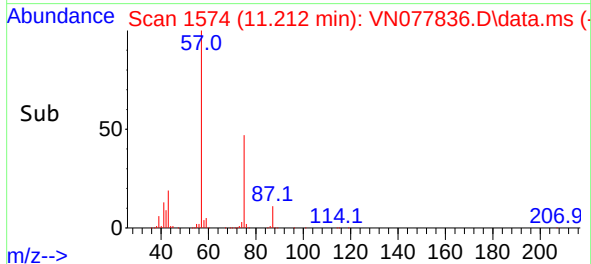
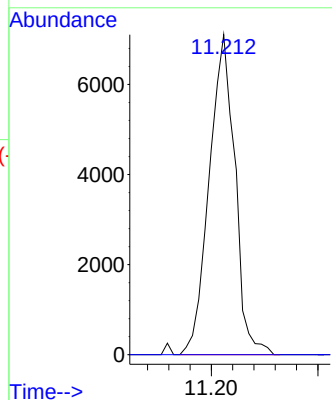
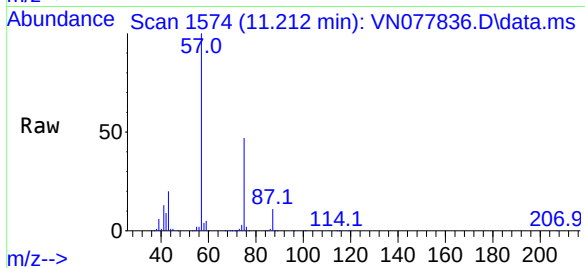
290-328

Tgt Ion: 76 Resp: 11941

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 56.888 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN077836.D

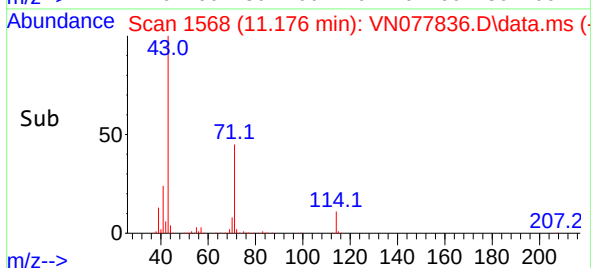
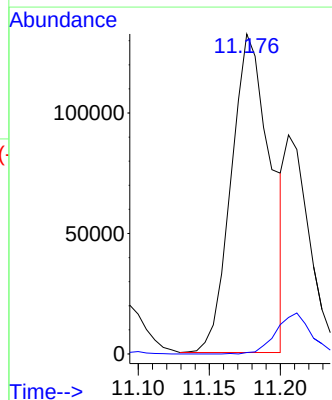
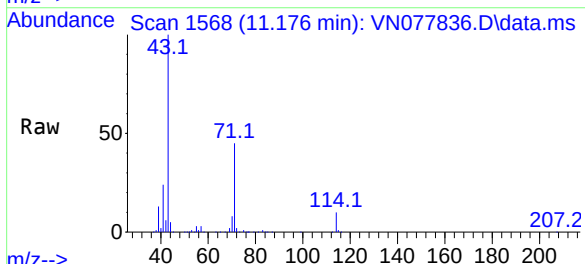
Acq: 24 May 2023 03:26

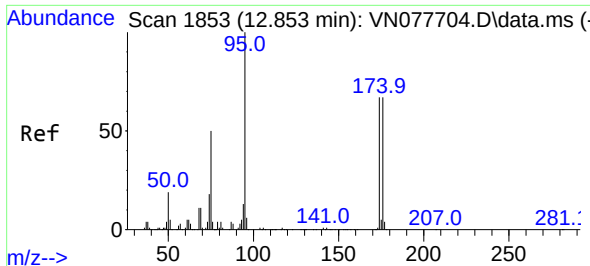
Tgt Ion: 43 Resp: 254583

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

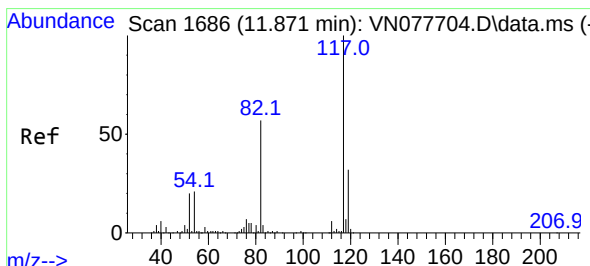
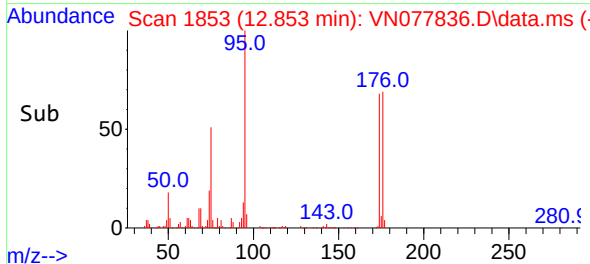
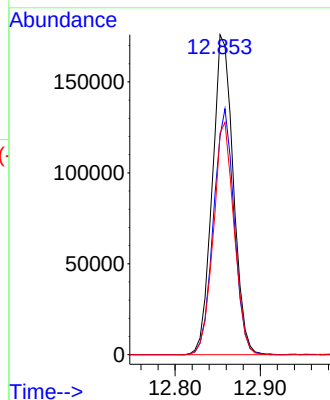
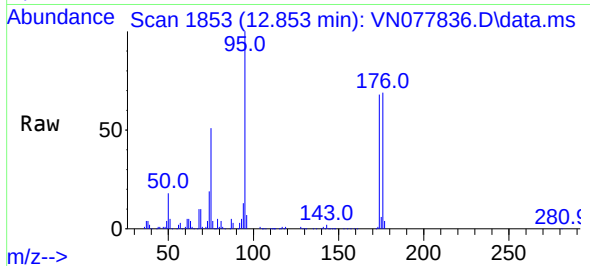




#62
4-Bromofluorobenzene
Concen: 46.207 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

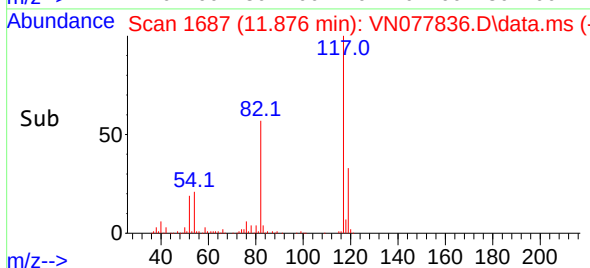
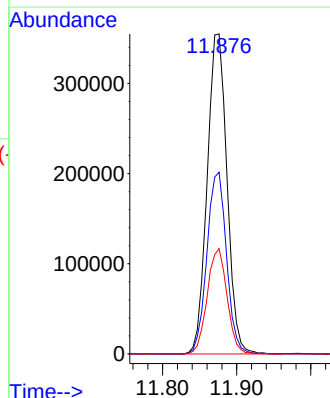
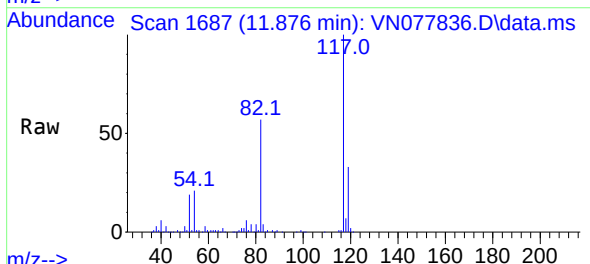
Instrument :
MSVOA_N
ClientSampleId :
290-328

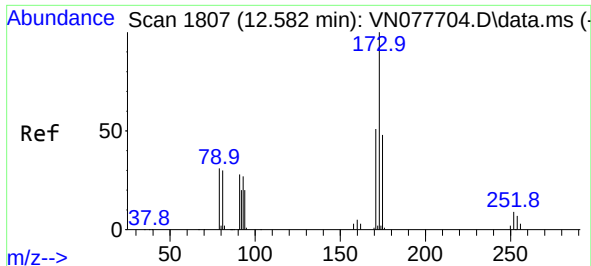
Tgt Ion: 95 Resp: 300252
Ion Ratio Lower Upper
95 100
174 75.8 0.0 143.8
176 71.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.876 min Scan# 1687
Delta R.T. 0.006 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion: 117 Resp: 659862
Ion Ratio Lower Upper
117 100
82 56.8 44.0 66.0
119 33.0 25.6 38.4

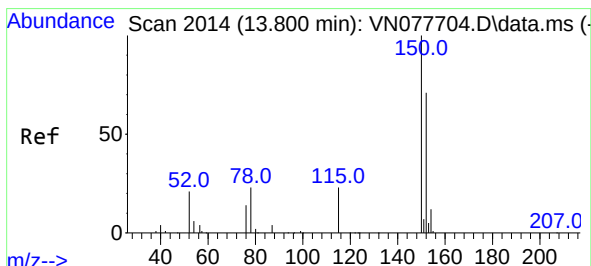
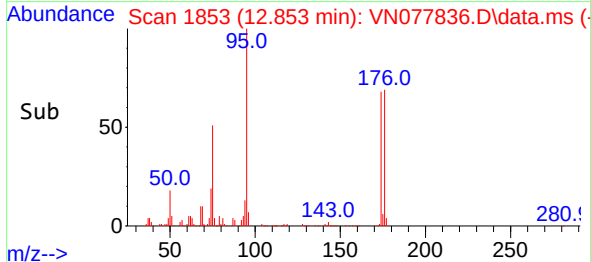
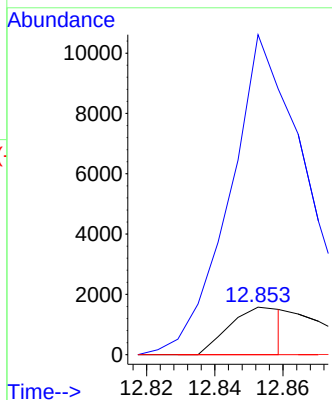
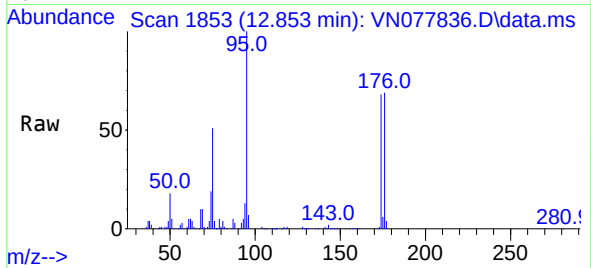




#71
Bromoform
Concen: 0.527 ug/l
RT: 12.853 min Scan# 1807
Delta R.T. 0.271 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

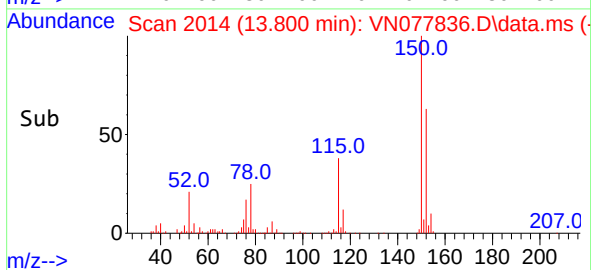
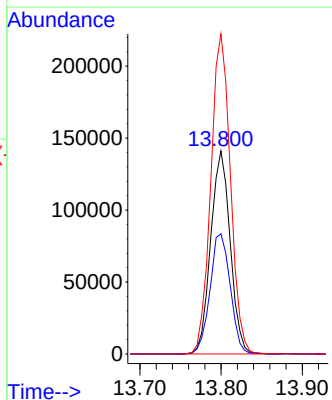
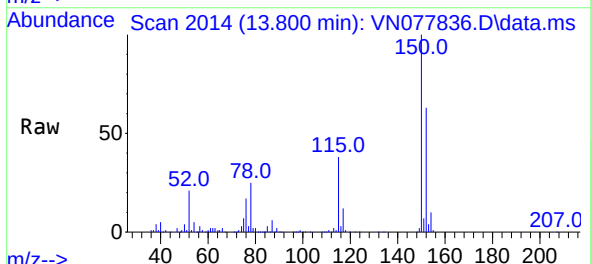
Instrument :
MSVOA_N
ClientSampleId :
290-328

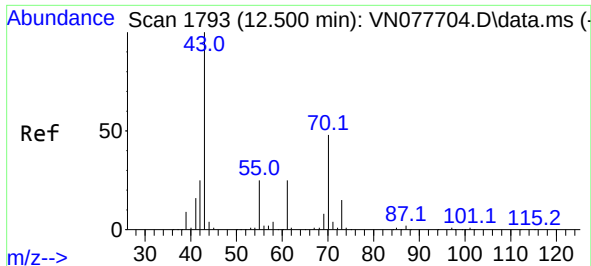
Tgt Ion:173 Resp: 1734
Ion Ratio Lower Upper
173 100
175 650.7 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

Tgt Ion:152 Resp: 235248
Ion Ratio Lower Upper
152 100
115 61.5 32.3 96.8
150 158.9 0.0 355.8

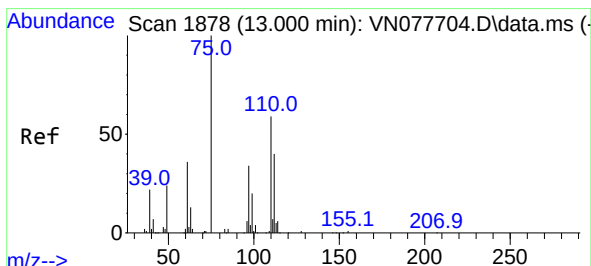
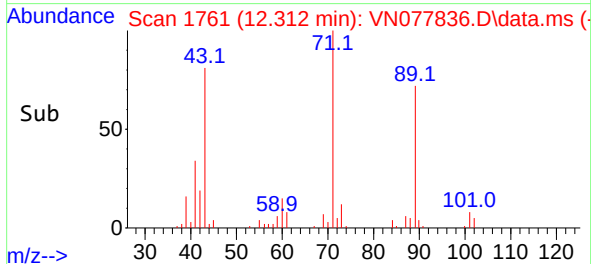
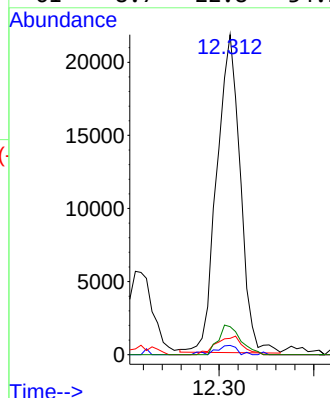
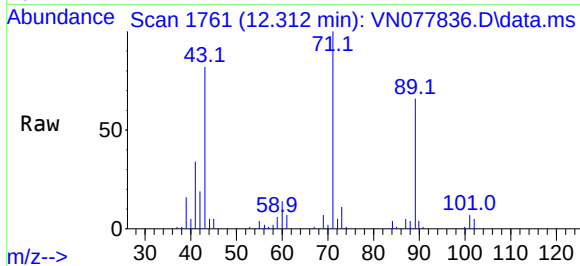




#74
N-amy1 acetate
Concen: 5.003 ug/l
RT: 12.312 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

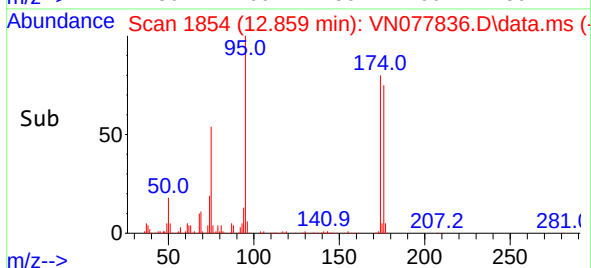
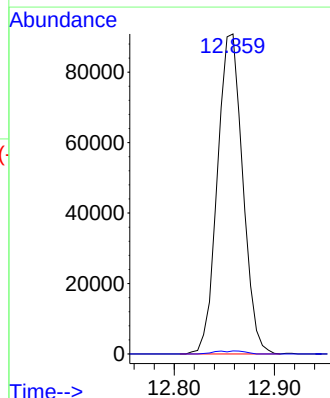
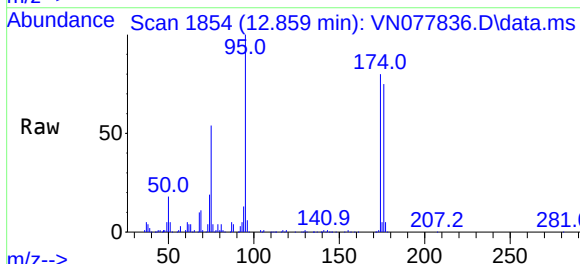
Instrument :
MSVOA_N
ClientSampleId :
290-328

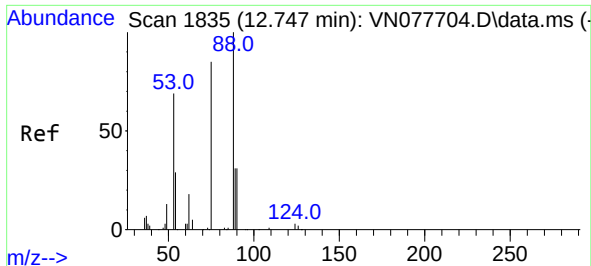
Tgt Ion: 43	Resp: 37502
Ion Ratio	Lower Upper
43 100	
70 2.7	43.4 65.2#
55 6.5	21.4 32.0#
61 8.7	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 27.069 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077836.D
Acq: 24 May 2023 03:26

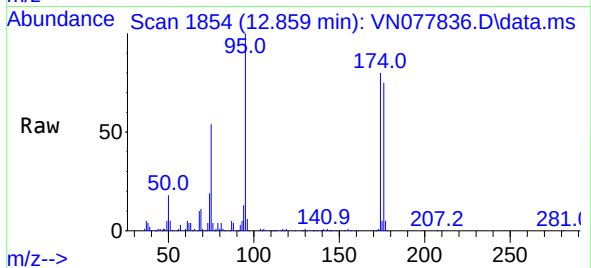
Tgt Ion: 75	Resp: 159475
Ion Ratio	Lower Upper
75 100	
77 0.6	84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.526 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077836.D
 Acq: 24 May 2023 03:26

Instrument :
 MSVOA_N
 ClientSampleId :
 290-328



Tgt Ion: 75 Resp: 159475
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

