

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077838.D
 Acq On : 24 May 2023 04:14
 Operator : JC\MD
 Sample : 02892-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-31

Quant Time: May 24 05:59:43 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)

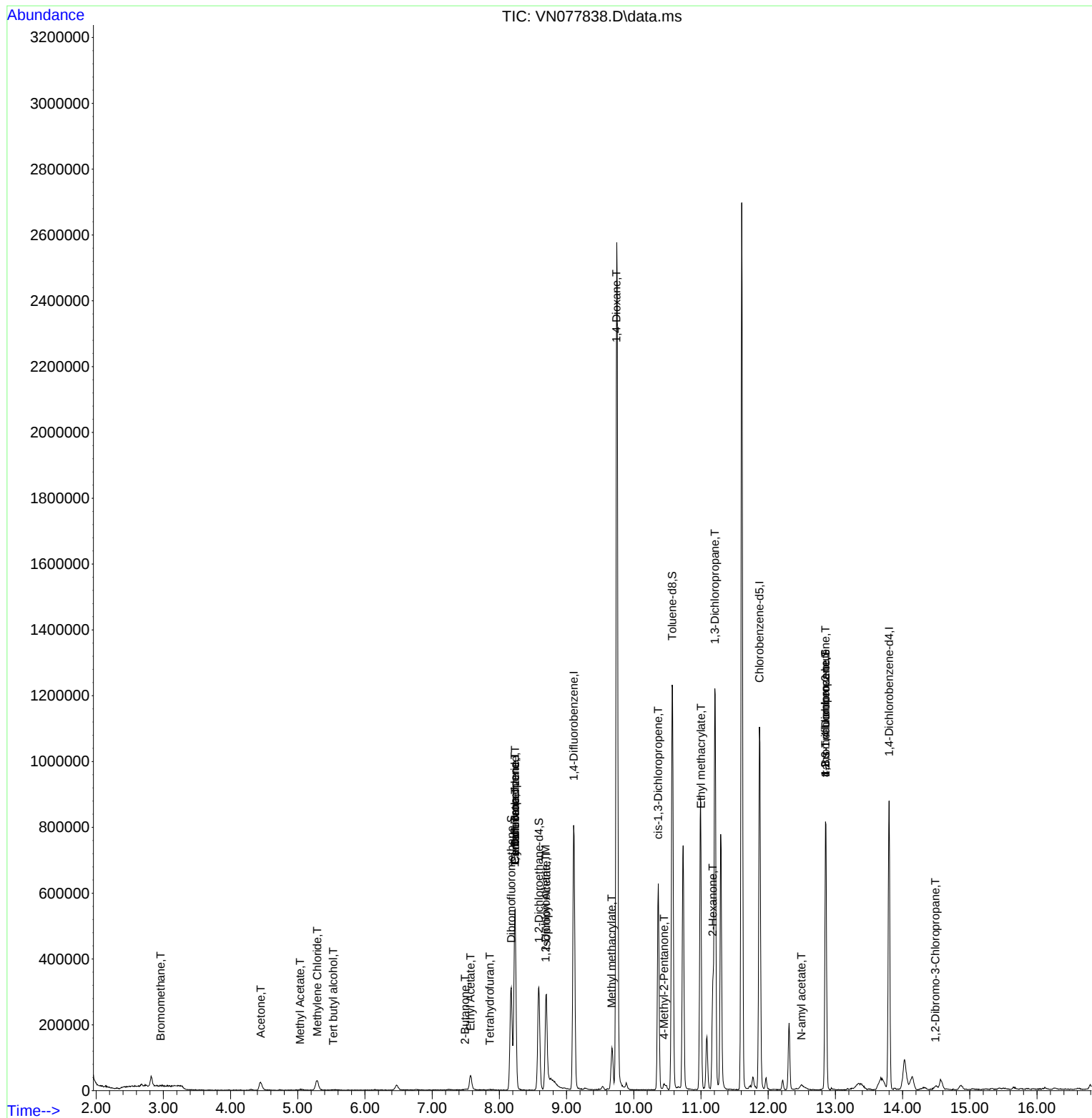
Internal Standards						
1) Pentafluorobenzene	8.236	168	404979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	720403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	673501	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	236474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	261851	43.213	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.420%		
35) Dibromofluoromethane	8.177	113	227177	48.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.720%		
50) Toluene-d8	10.571	98	905071	50.055	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.100%		
62) 4-Bromofluorobenzene	12.853	95	300294	47.023	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1381	Below Cal	#	83
5) Bromomethane	2.959	94	1125	0.262	ug/l	84
11) Tert butyl alcohol	5.530	59	460	0.550	ug/l #	72
13) Acrolein	3.912	56	92	Below Cal	#	74
16) Acetone	4.448	43	48737	25.565	ug/l #	86
18) Methyl Acetate	5.036	43	2283	0.285	ug/l #	71
20) Methylene Chloride	5.289	84	24242	3.029	ug/l	90
25) 2-Butanone	7.489	43	2930	0.982	ug/l	90
29) Tetrahydrofuran	7.859	42	1279	0.655	ug/l #	40
31) Cyclohexane	8.236	56	9433	1.145	ug/l #	63
36) 1,1-Dichloropropene	8.230	75	32276	4.697	ug/l #	49
37) Ethyl Acetate	7.571	43	64365	10.510	ug/l	98
38) Carbon Tetrachloride	8.236	117	44559	6.422	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1992	0.270	ug/l #	73
43) Isopropyl Acetate	8.700	43	336325	33.621	ug/l #	82
48) Methyl methacrylate	9.671	41	7059	1.488	ug/l #	3
49) 1,4-Dioxane	9.741	88	586	6.542	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	10588	1.781	ug/l	99
54) cis-1,3-Dichloropropene	10.365	75	119865	14.497	ug/l #	64
56) Ethyl methacrylate	11.000	69	3314	0.437	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	13687	1.593	ug/l #	42
59) 2-Hexanone	11.177	43	253768	57.700	ug/l #	19
74) N-amyl acetate	12.494	43	2849	0.378	ug/l #	43
76) 1,2,3-Trichloropropane	12.853	75	154249	26.046	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	154249	83.257	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.488	75	413	0.340	ug/l	61

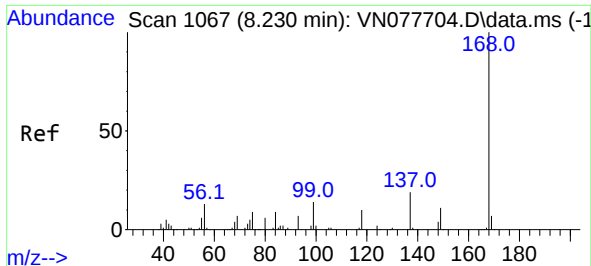
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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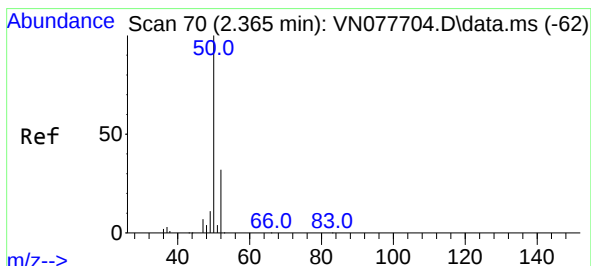
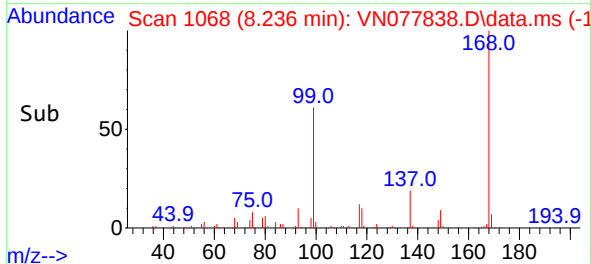
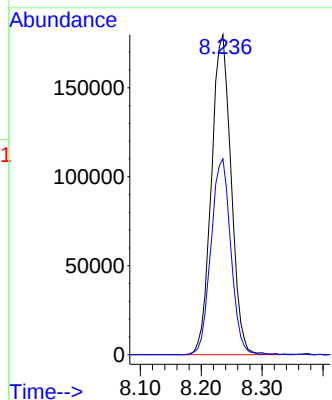
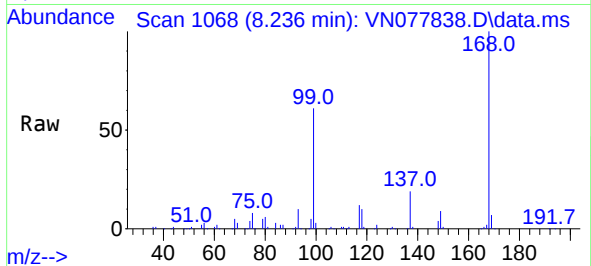




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

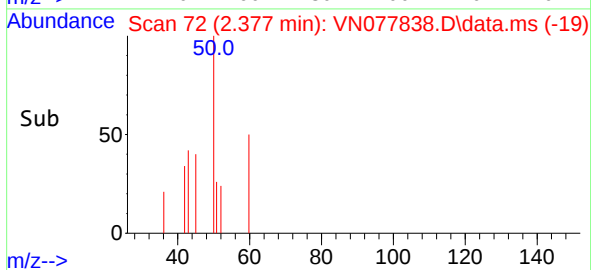
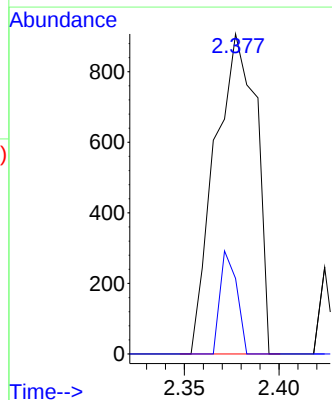
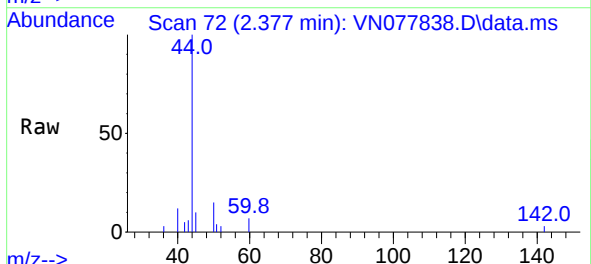
Instrument :
MSVOA_N
ClientSampleId :
TP-31

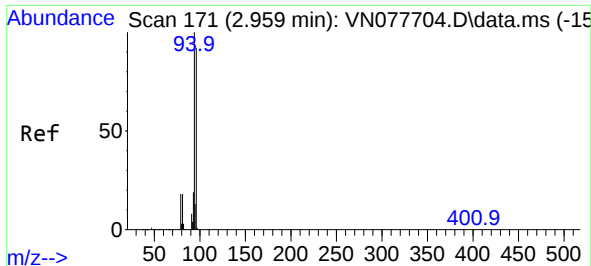
Tgt Ion:168 Resp: 404979
Ion Ratio Lower Upper
168 100
99 61.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 50 Resp: 1381
Ion Ratio Lower Upper
50 100
52 23.6 26.5 39.7#

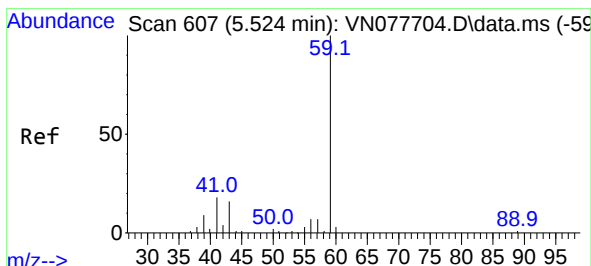
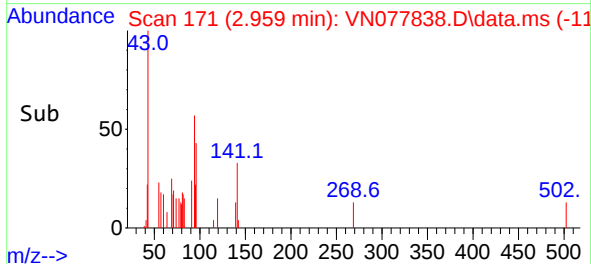
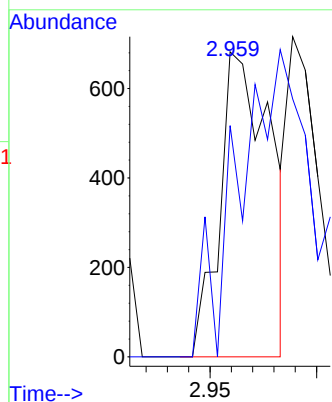
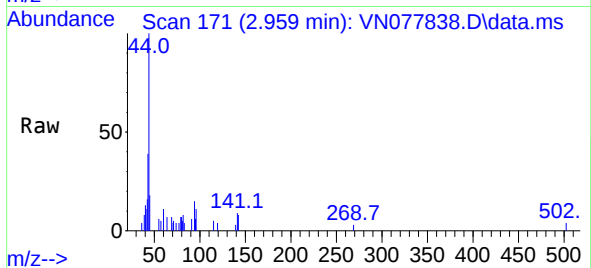




#5
Bromomethane
Concen: 0.262 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

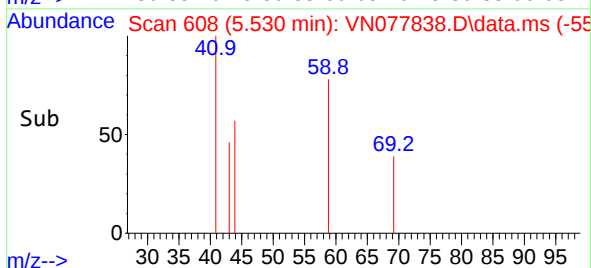
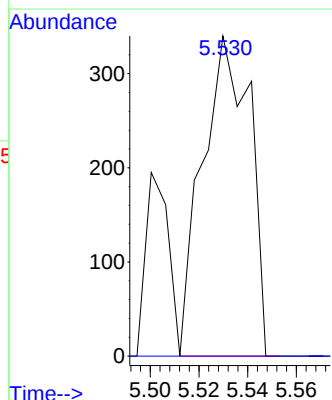
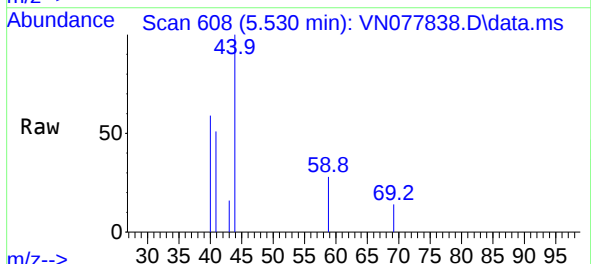
Instrument :
MSVOA_N
ClientSampleId :
TP-31

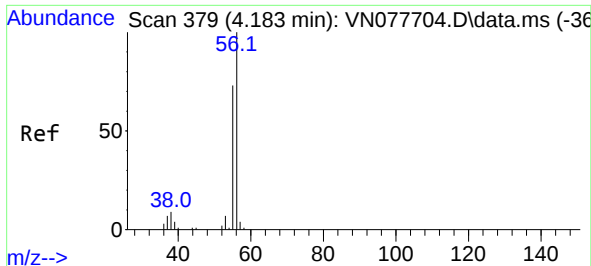
Tgt Ion: 94 Resp: 1125
Ion Ratio Lower Upper
94 100
96 75.8 73.1 109.7



#11
Tert butyl alcohol
Concen: 0.550 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 59 Resp: 460
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

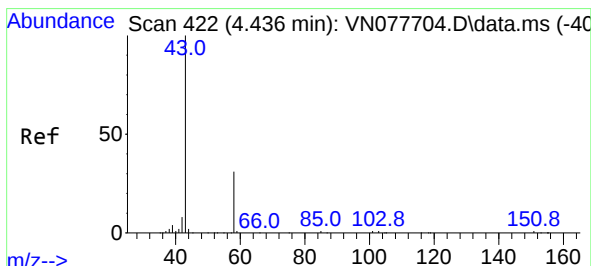
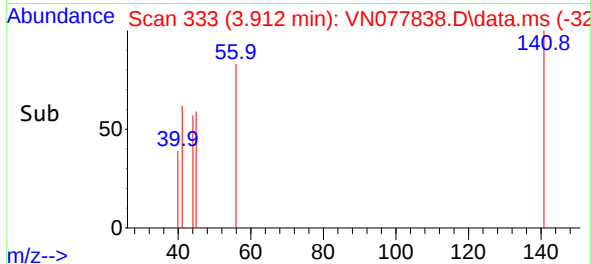
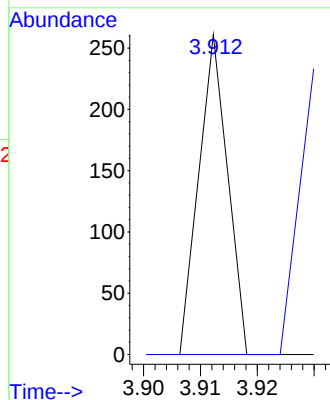
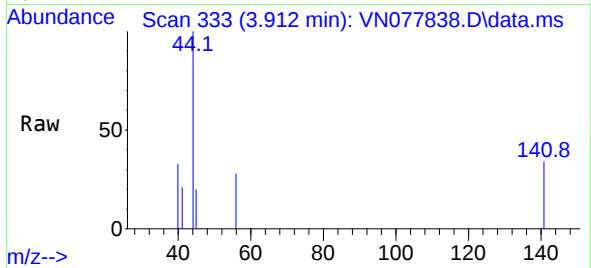




#13
Acrolein
Concen: Below Cal
RT: 3.912 min Scan# 31
Delta R.T. -0.277 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

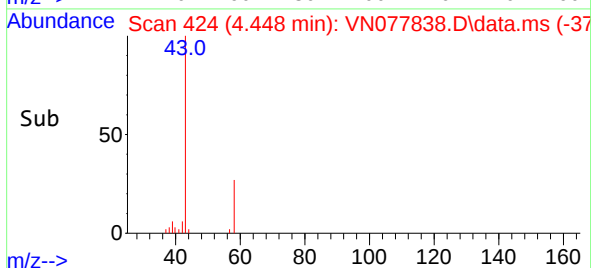
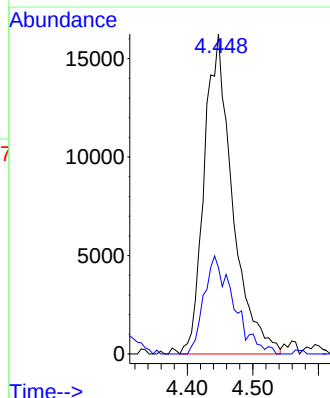
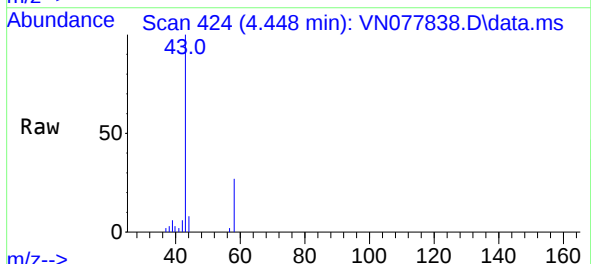
Instrument :
MSVOA_N
ClientSampleId :
TP-31

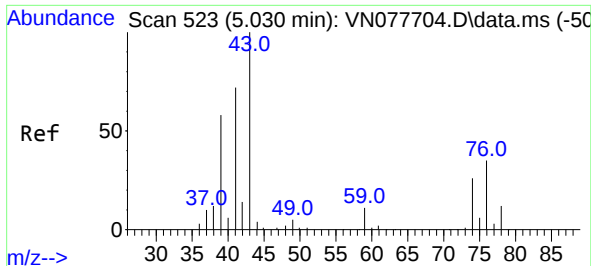
Tgt Ion: 56 Resp: 92
Ion Ratio Lower Upper
56 100
55 89.1 54.5 81.7#



#16
Acetone
Concen: 25.565 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.018 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 43 Resp: 48737
Ion Ratio Lower Upper
43 100
58 27.0 28.0 42.0#

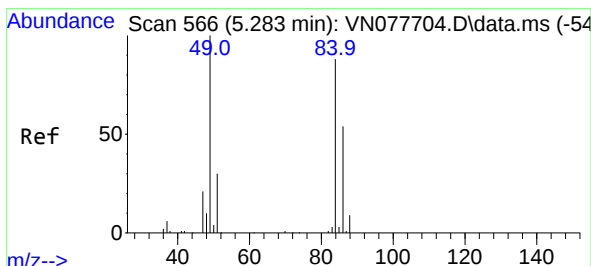
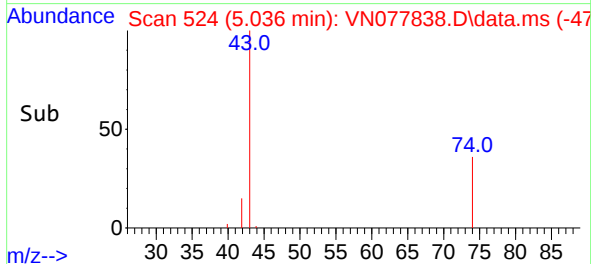
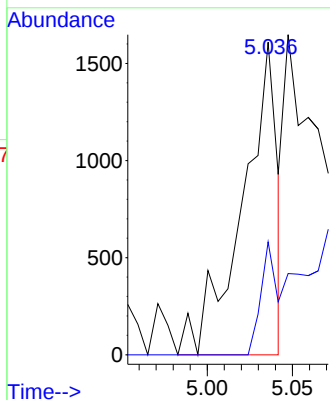
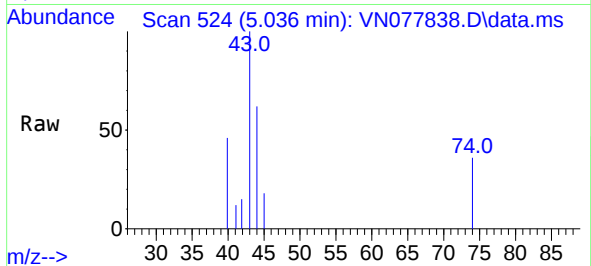




#18
Methyl Acetate
Concen: 0.285 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

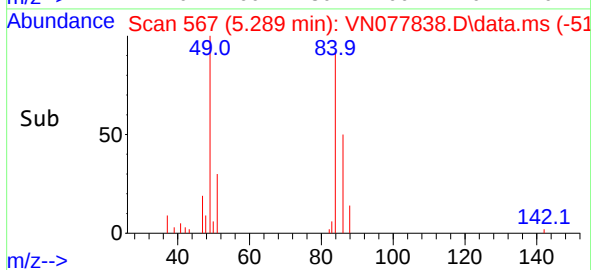
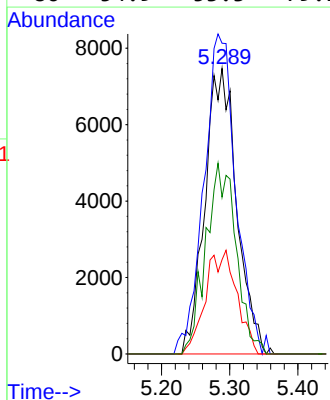
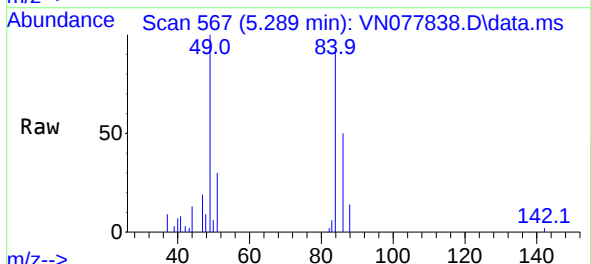
Instrument :
MSVOA_N
ClientSampleId :
TP-31

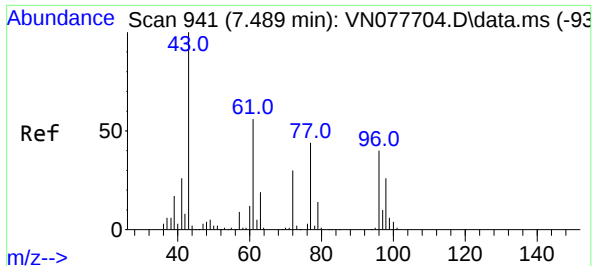
Tgt Ion: 43 Resp: 2283
Ion Ratio Lower Upper
43 100
74 16.4 26.2 39.4#



#20
Methylene Chloride
Concen: 3.029 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 84 Resp: 24242
Ion Ratio Lower Upper
84 100
49 108.8 79.7 119.5
51 33.0 25.2 37.8
86 54.9 53.3 79.9

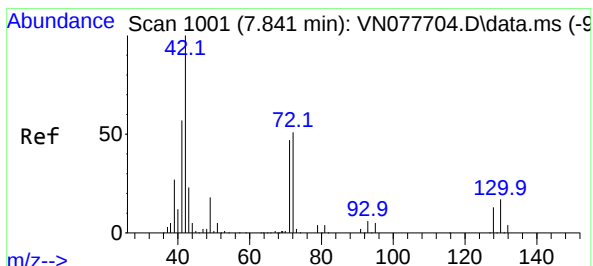
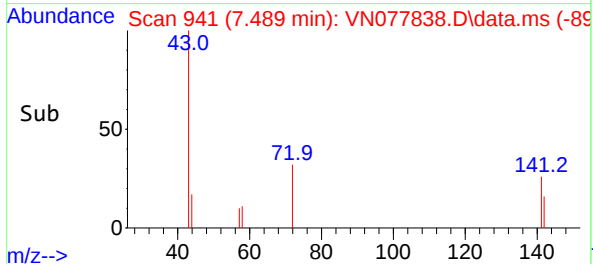
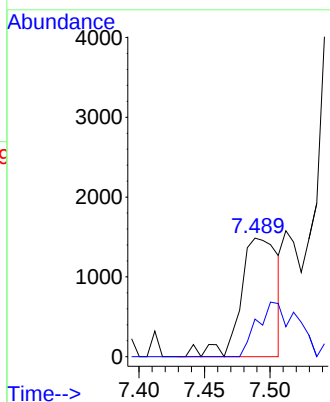
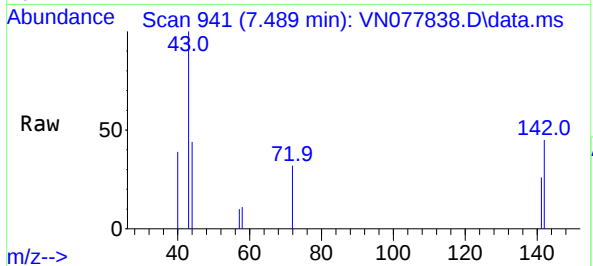




#25
2-Butanone
Concen: 0.982 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

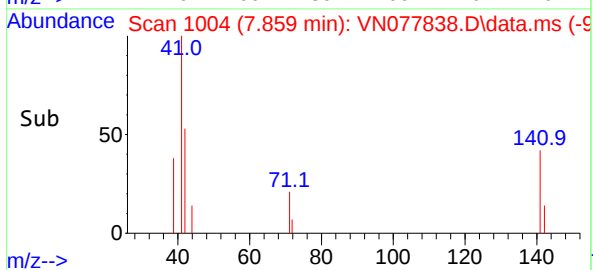
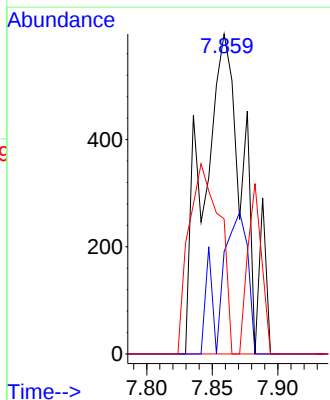
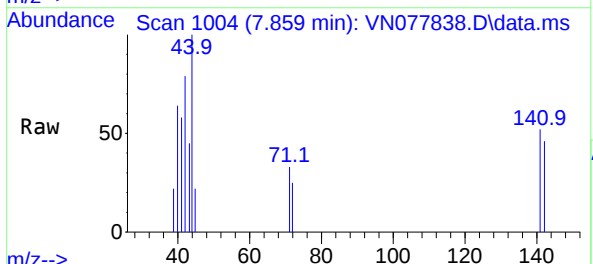
Instrument :
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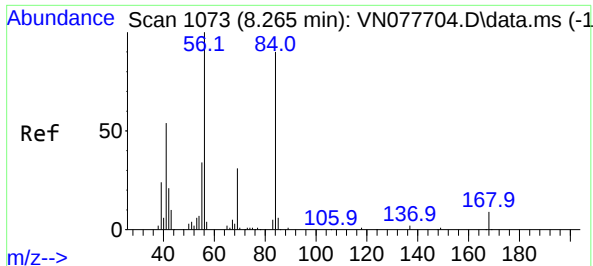
Tgt Ion: 43 Resp: 2930
Ion Ratio Lower Upper
43 100
72 31.7 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.655 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

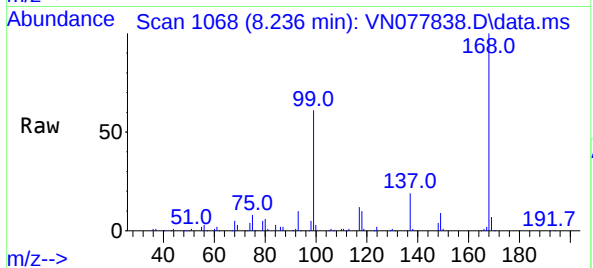
Tgt Ion: 42 Resp: 1279
Ion Ratio Lower Upper
42 100
72 30.0 49.8 74.6#
71 0.0 47.4 71.2#



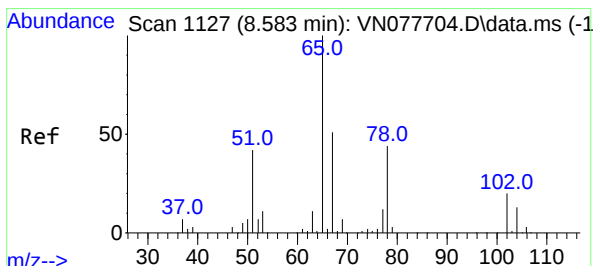
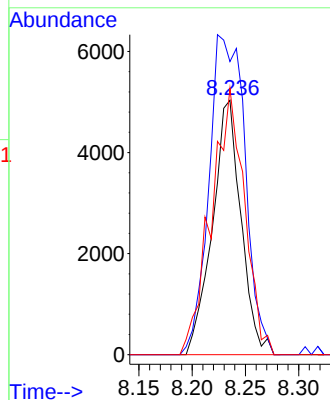
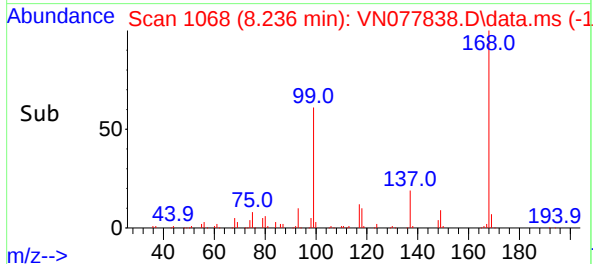


#31
Cyclohexane
Concen: 1.145 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

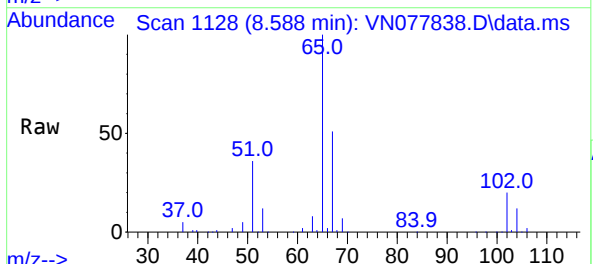
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MSVOA_N
ClientSampleId :
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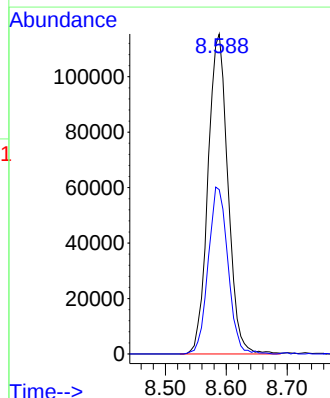
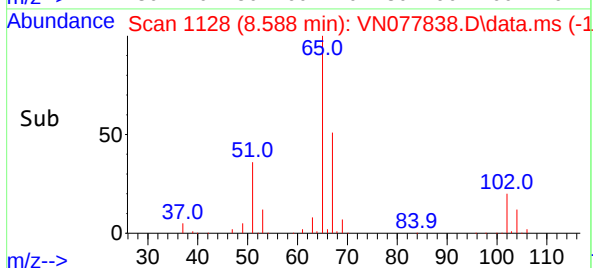
Tgt Ion: 56 Resp: 9433
Ion Ratio Lower Upper
56 100
69 115.2 26.8 40.2#
84 104.7 81.8 122.6

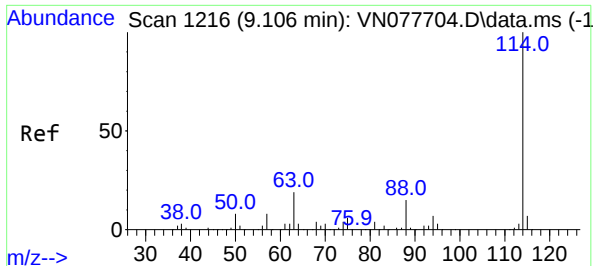


#33
1,2-Dichloroethane-d4
Concen: 43.213 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14



Tgt Ion: 65 Resp: 261851
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.6

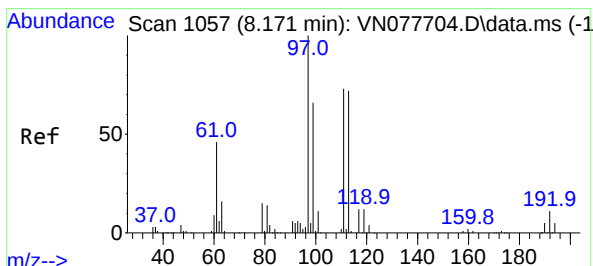
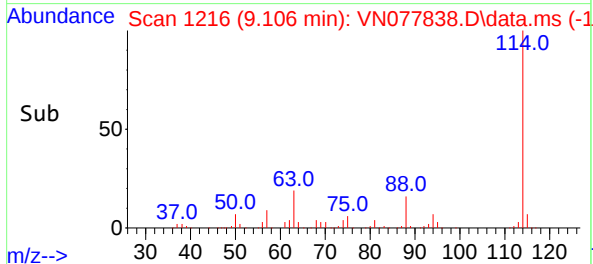
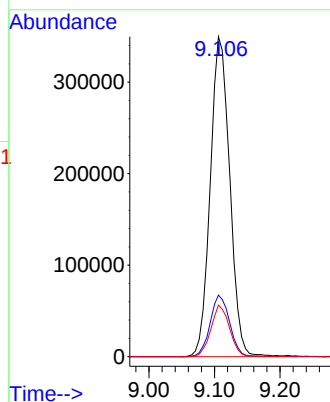
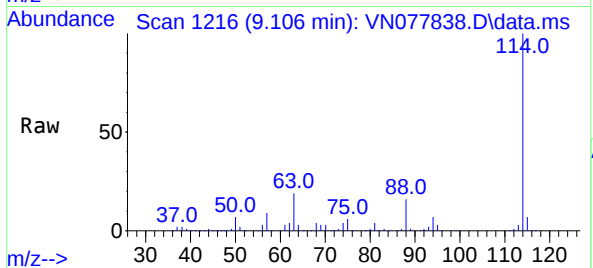




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

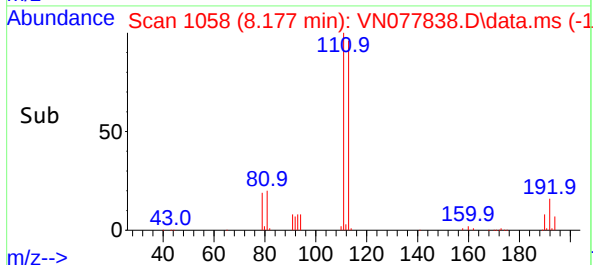
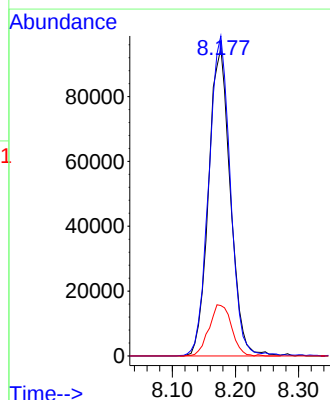
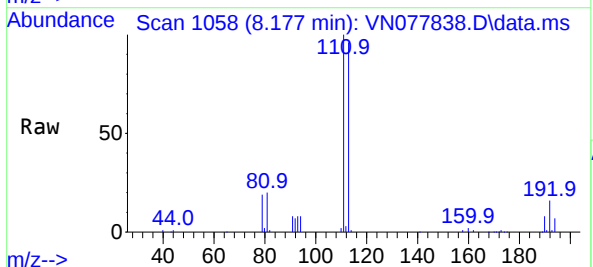
Instrument :
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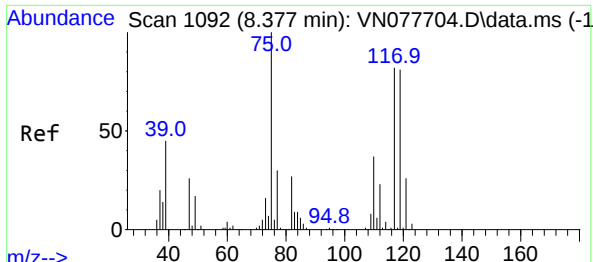
Tgt Ion:114 Resp: 720403
Ion Ratio Lower Upper
114 100
63 19.2 0.0 36.4
88 16.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.360 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion:113 Resp: 227177
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 17.2 12.7 19.1

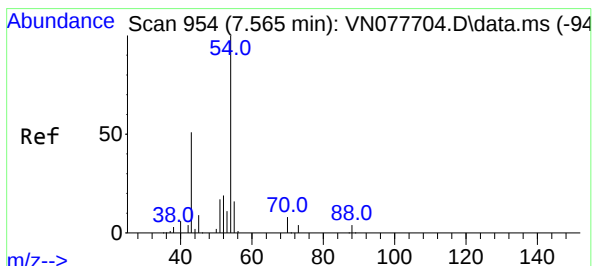
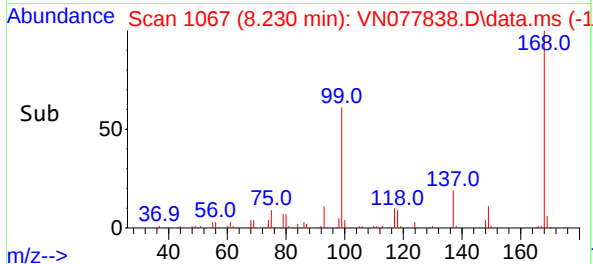
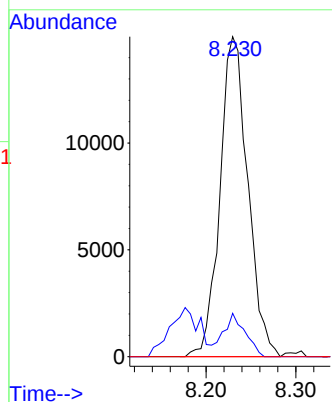
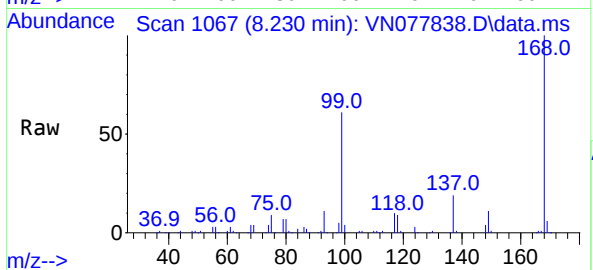




#36
1,1-Dichloropropene
Concen: 4.697 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.147 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

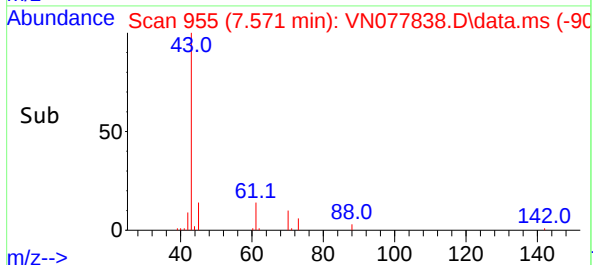
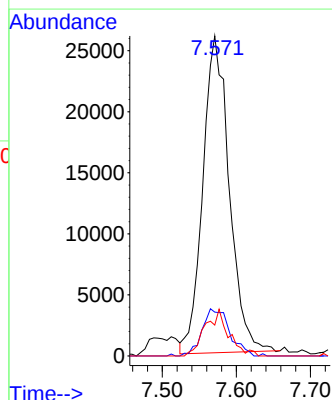
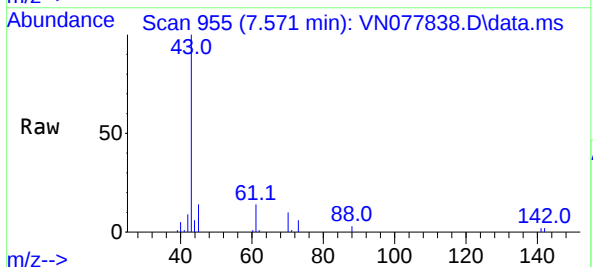
Instrument :
MSVOA_N
ClientSampleId :
TP-31

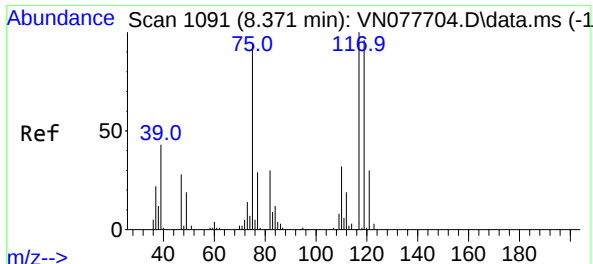
Tgt Ion: 75 Resp: 32276
Ion Ratio Lower Upper
75 100
110 10.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.510 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.006 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

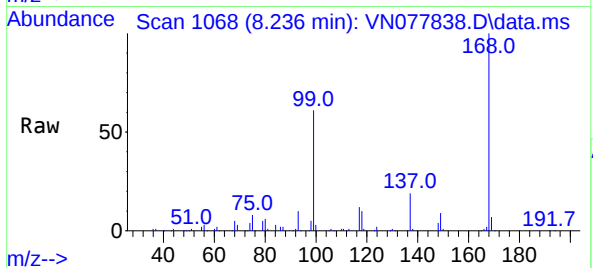
Tgt Ion: 43 Resp: 64365
Ion Ratio Lower Upper
43 100
61 15.5 13.2 19.8
70 13.2 11.3 16.9



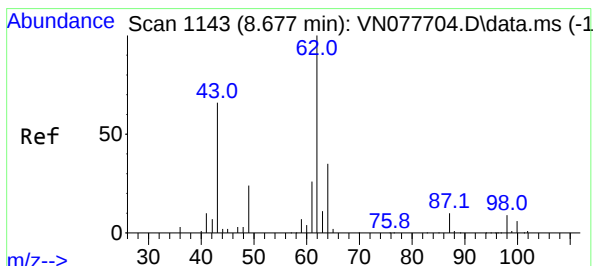
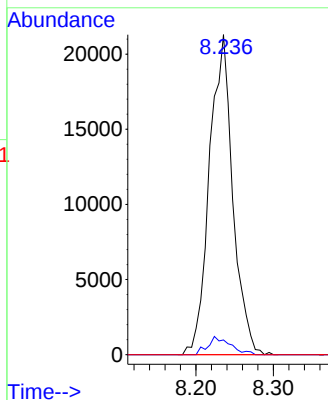
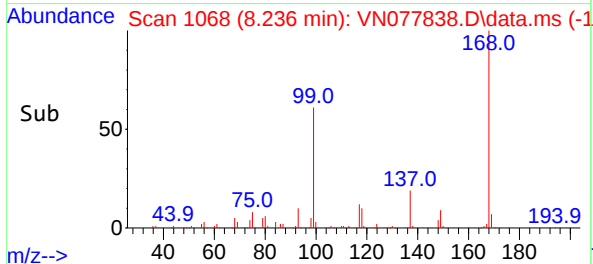


#38
Carbon Tetrachloride
Concen: 6.422 ug/l
RT: 8.236 min Scan# 1107
Delta R.T. -0.136 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Instrument :
MSVOA_N
ClientSampleId :
TP-31

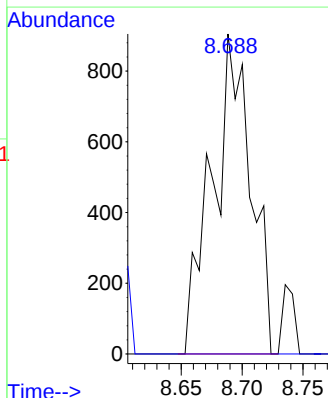
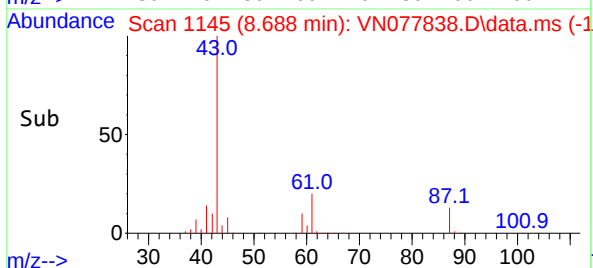
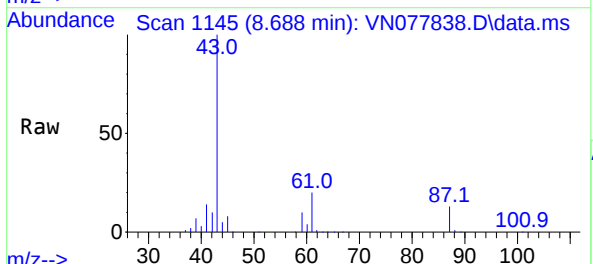


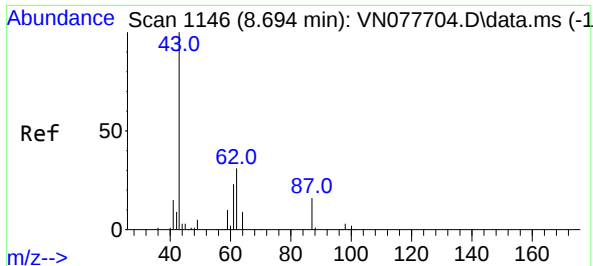
Tgt Ion:117 Resp: 44559
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.270 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.011 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 62 Resp: 1992
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 33.621 ug/l

RT: 8.700 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN077838.D

Acq: 24 May 2023 04:14

Instrument :

MSVOA_N

ClientSampleId :

TP-31

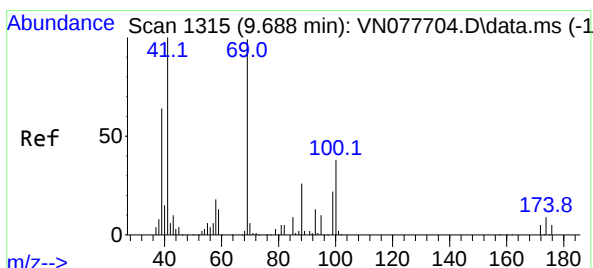
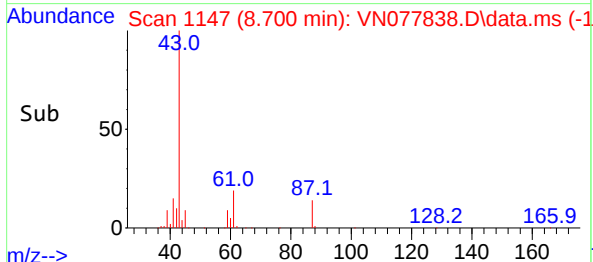
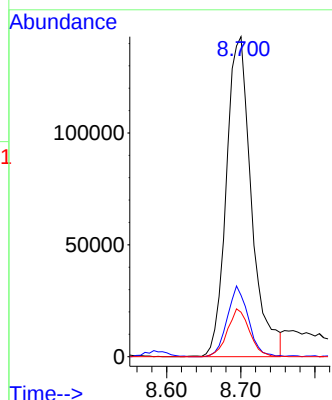
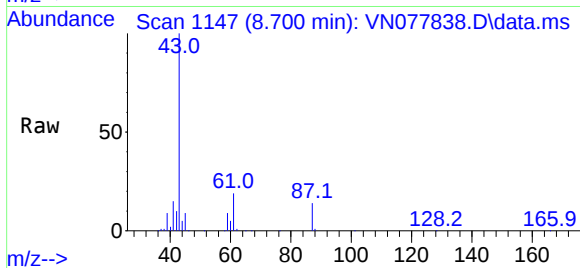
Tgt Ion: 43 Resp: 336325

Ion Ratio Lower Upper

43 100

61 18.6 24.7 37.1#

87 13.2 14.6 21.8#



#48

Methyl methacrylate

Concen: 1.488 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.017 min

Lab File: VN077838.D

Acq: 24 May 2023 04:14

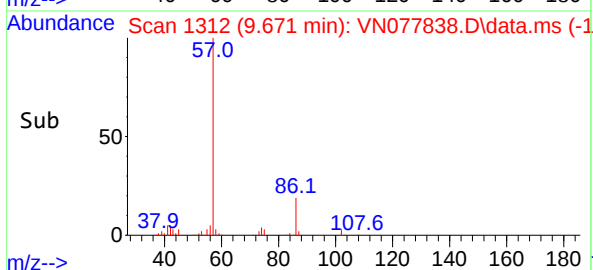
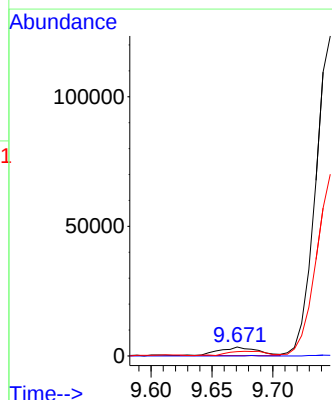
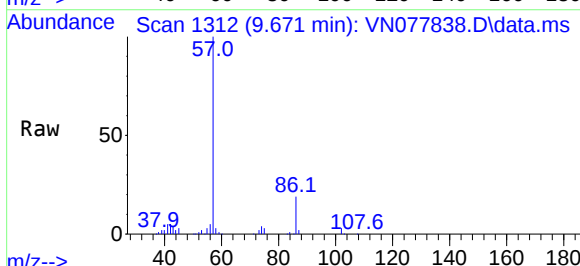
Tgt Ion: 41 Resp: 7059

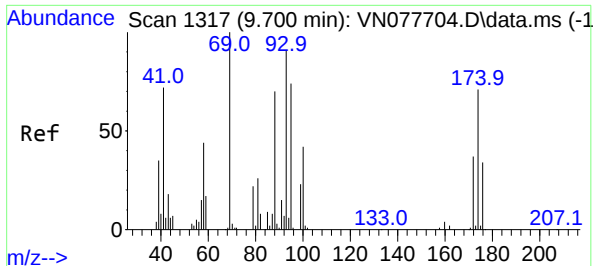
Ion Ratio Lower Upper

41 100

69 0.9 90.4 135.6#

39 0.0 54.6 81.8#

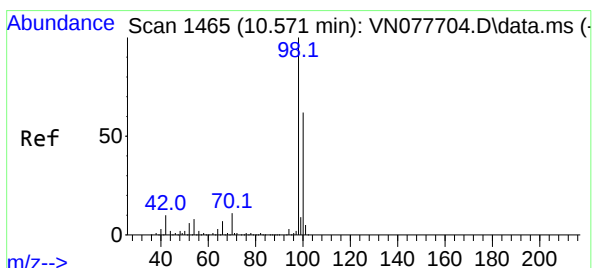
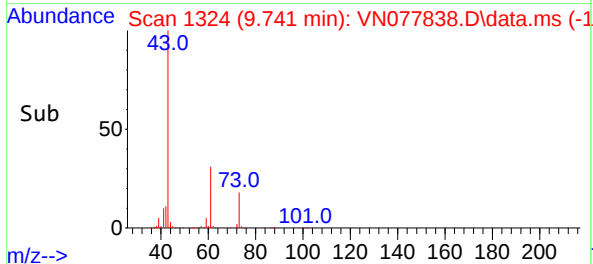
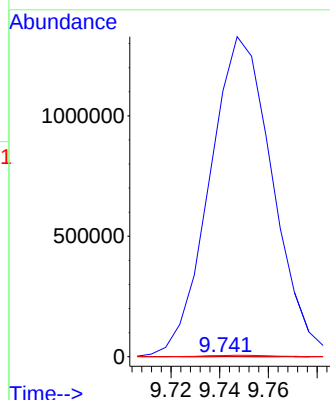
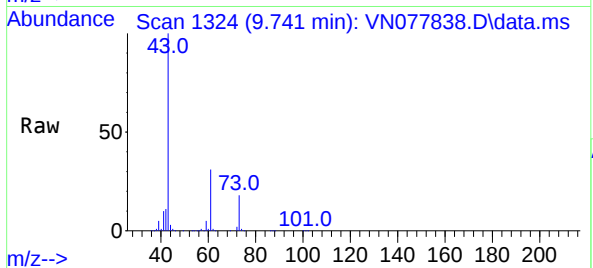




#49
1,4-Dioxane
Concen: 6.542 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

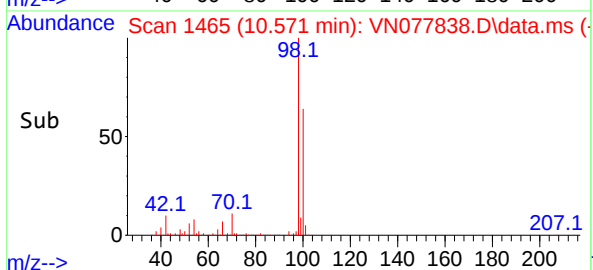
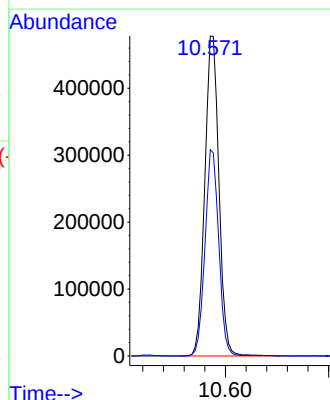
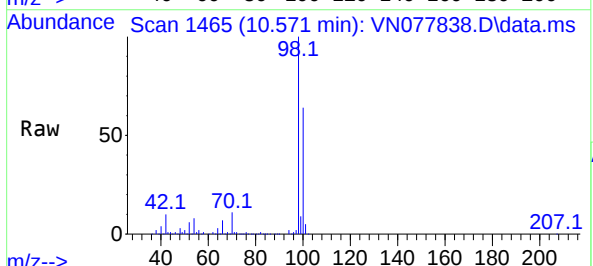
Instrument :
MSVOA_N
ClientSampleId :
TP-31

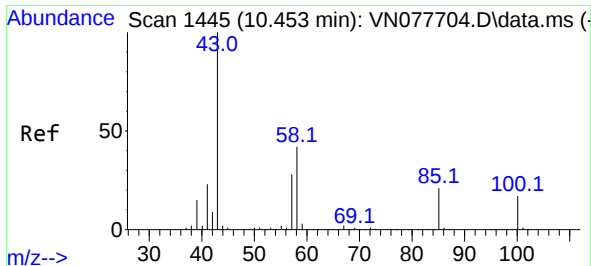
Tgt Ion: 88 Resp: 586
Ion Ratio Lower Upper
88 100
43 413119.5 17.0 25.6#
58 1917.4 47.0 70.4#



#50
Toluene-d8
Concen: 50.055 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 98 Resp: 905071
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.781 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN077838.D

Acq: 24 May 2023 04:14

Instrument :

MSVOA_N

ClientSampleId :

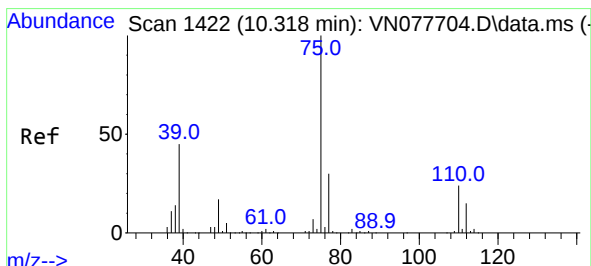
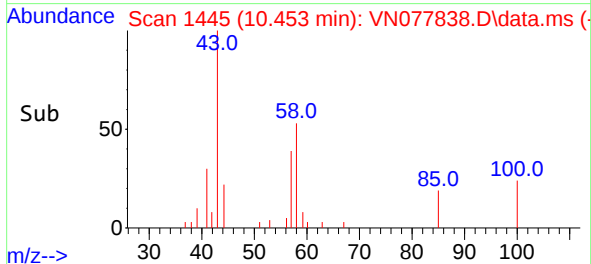
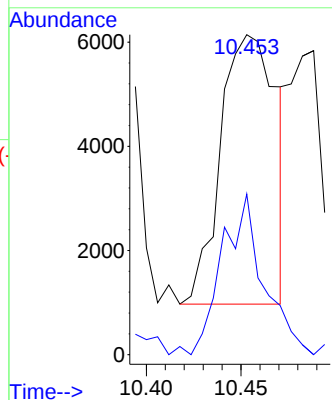
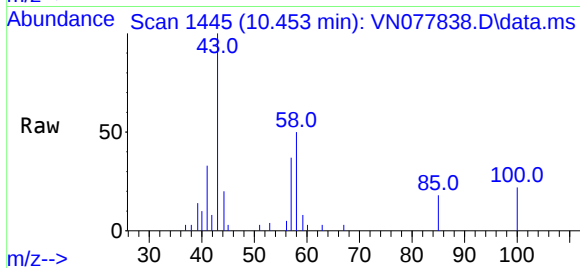
TP-31

Tgt Ion: 43 Resp: 10588

Ion Ratio Lower Upper

43 100

58 44.8 36.6 54.8



#54

cis-1,3-Dichloropropene

Concen: 14.497 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN077838.D

Acq: 24 May 2023 04:14

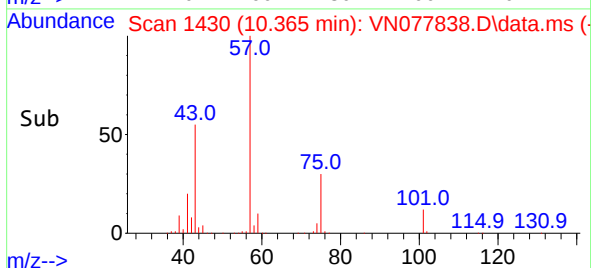
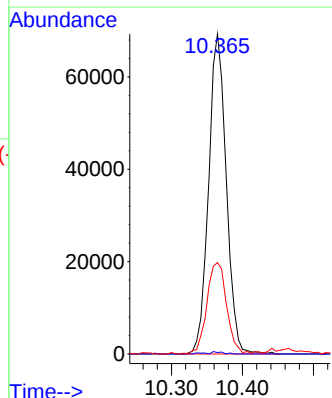
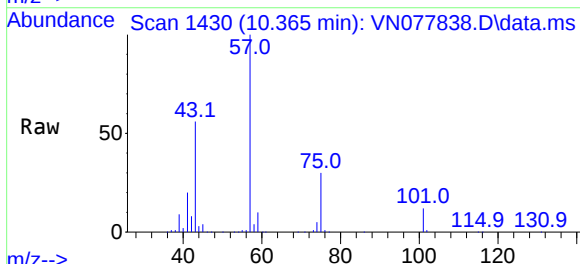
Tgt Ion: 75 Resp: 119865

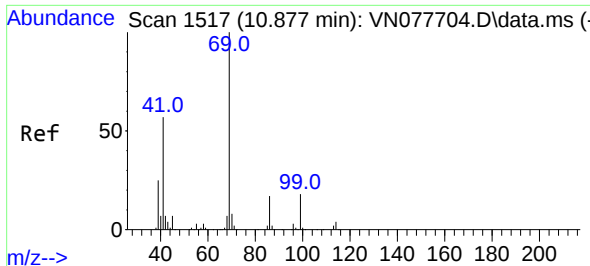
Ion Ratio Lower Upper

75 100

77 0.5 26.1 39.1#

39 28.5 31.6 47.4#

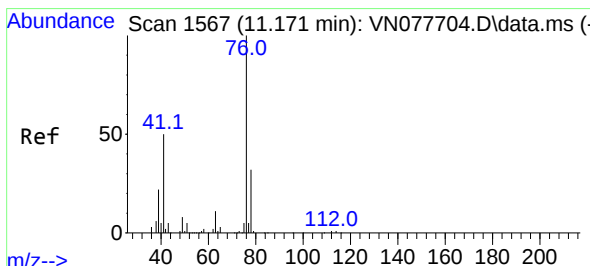
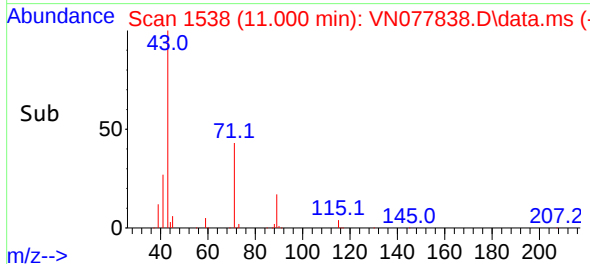
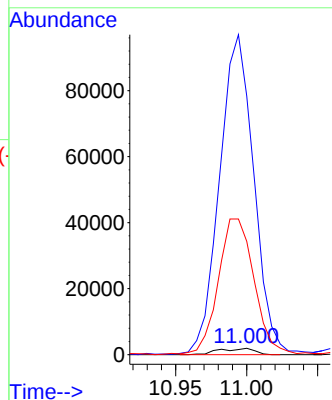
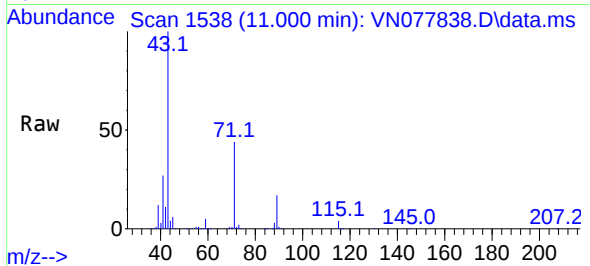




#56
Ethyl methacrylate
Concen: 0.437 ug/l
RT: 11.000 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

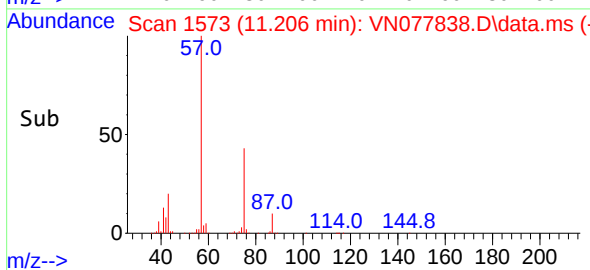
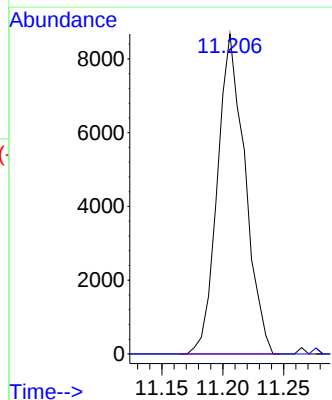
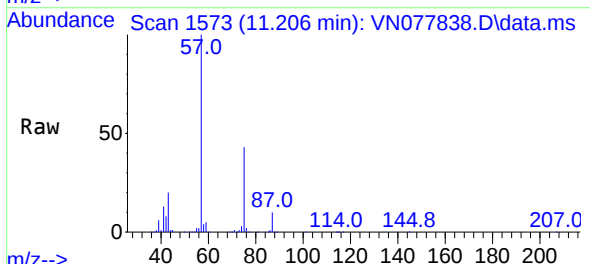
Instrument :
MSVOA_N
ClientSampleId :
TP-31

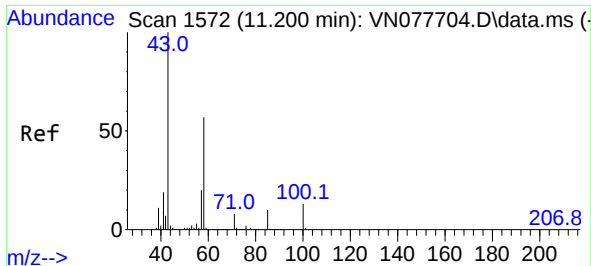
Tgt Ion: 69 Resp: 3314
Ion Ratio Lower Upper
69 100
41 4901.7 39.6 59.4#
39 2197.9 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.593 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 76 Resp: 13687
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

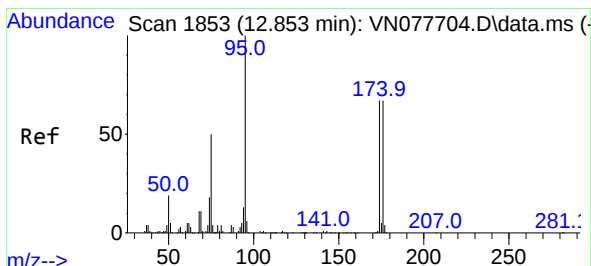
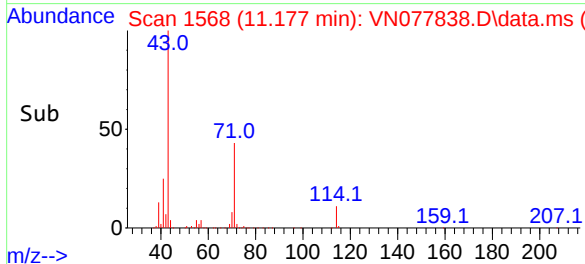
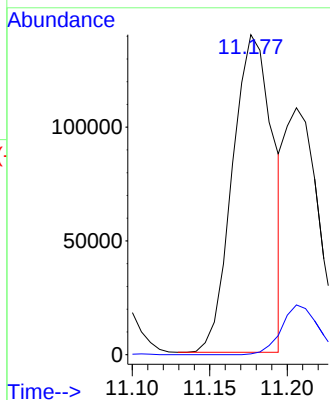
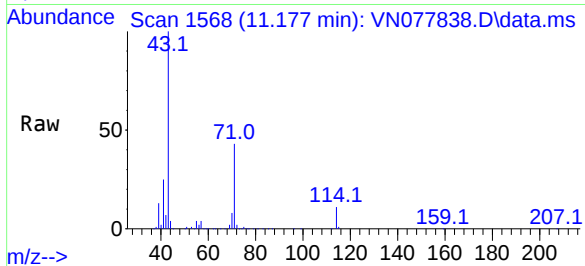




#59
2-Hexanone
Concen: 57.700 ug/l
RT: 11.177 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

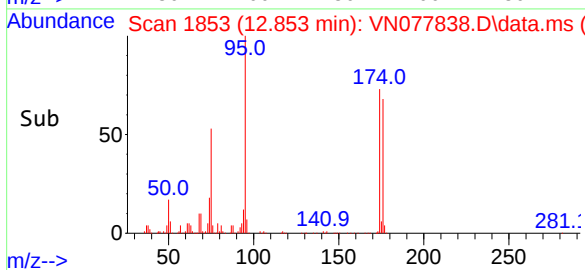
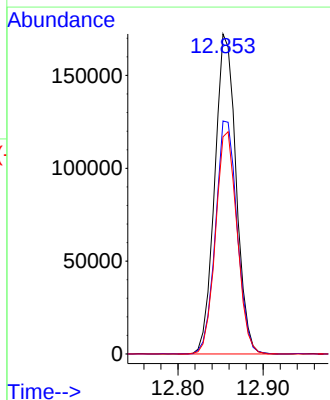
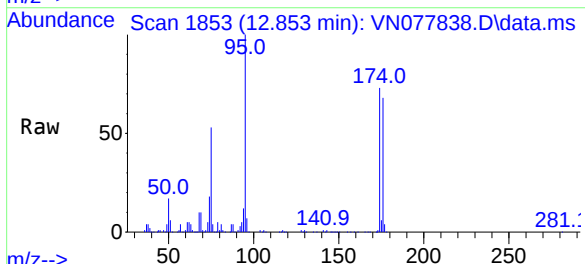
Instrument :
MSVOA_N
ClientSampleId :
TP-31

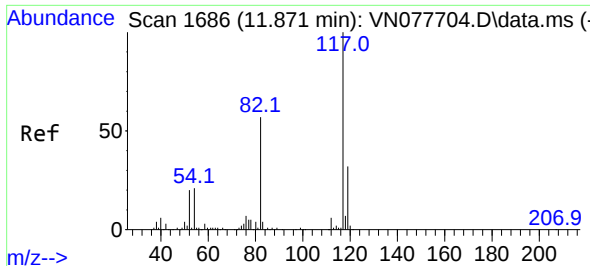
Tgt Ion: 43 Resp: 253768
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.023 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 95 Resp: 300294
Ion Ratio Lower Upper
95 100
174 73.8 0.0 143.8
176 69.7 0.0 135.8

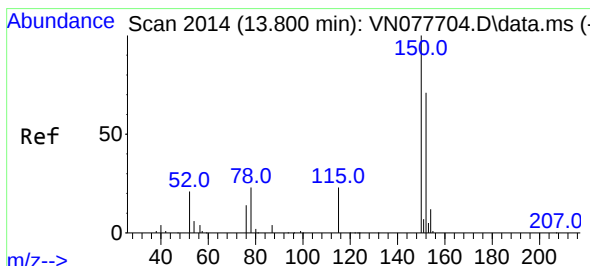
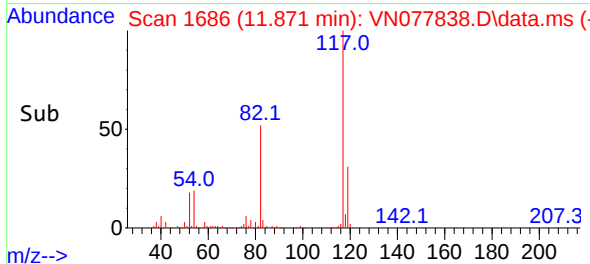
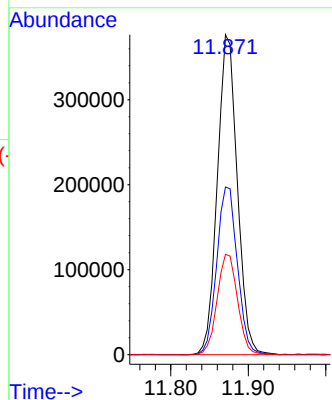
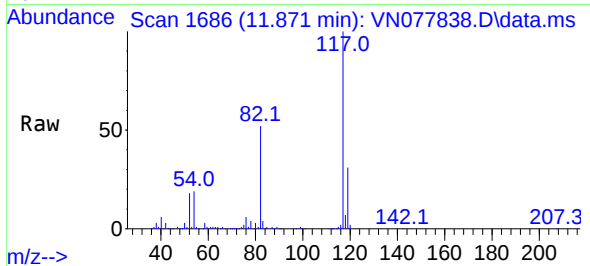




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

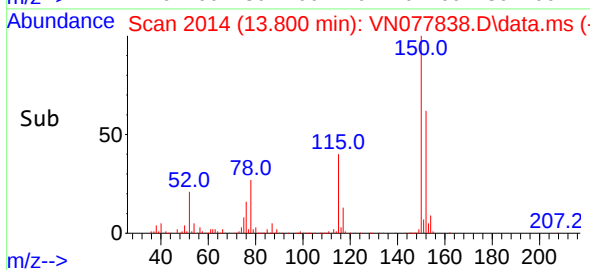
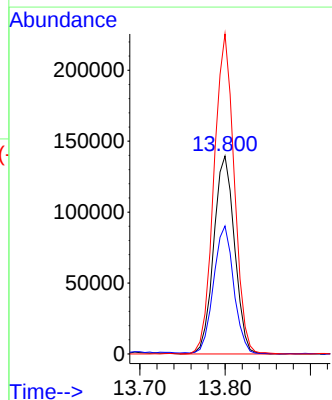
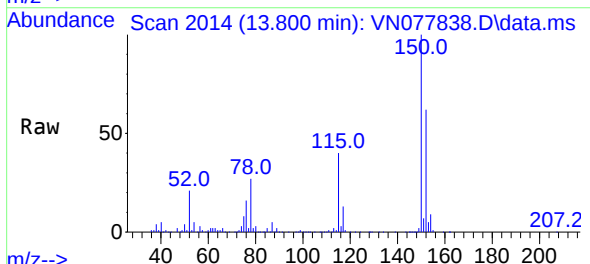
Instrument :
MSVOA_N
ClientSampleId :
TP-31

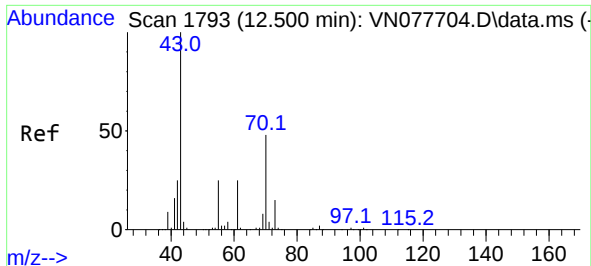
Tgt Ion:117 Resp: 673501
Ion Ratio Lower Upper
117 100
82 52.4 44.0 66.0
119 31.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

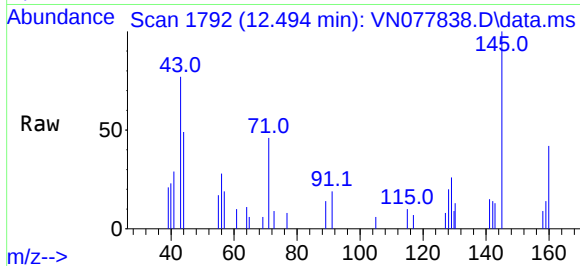
Tgt Ion:152 Resp: 236474
Ion Ratio Lower Upper
152 100
115 63.3 32.3 96.8
150 157.7 0.0 355.8





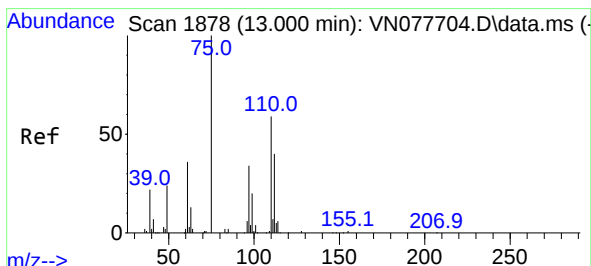
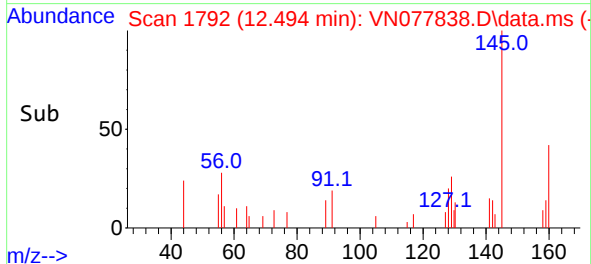
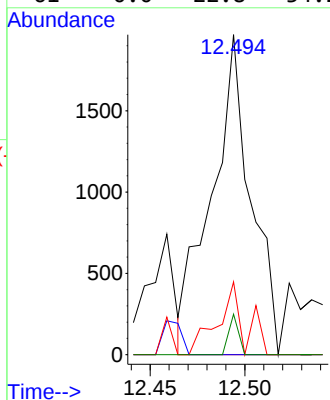
#74
N-amy1 acetate
Concen: 0.378 ug/l
RT: 12.494 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Instrument :
MSVOA_N
ClientSampleId :
TP-31



Tgt Ion: 43 Resp: 2849

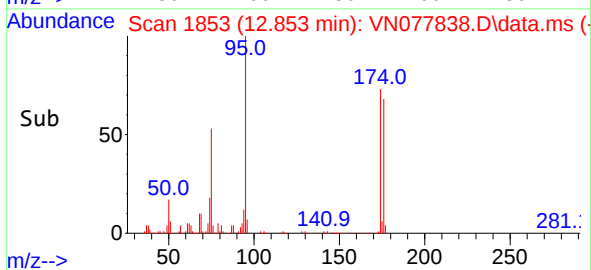
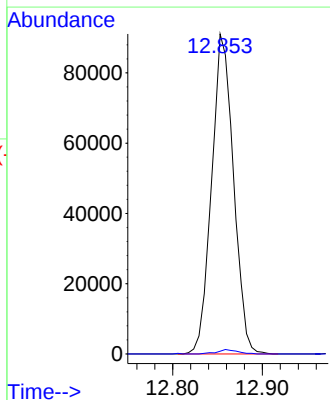
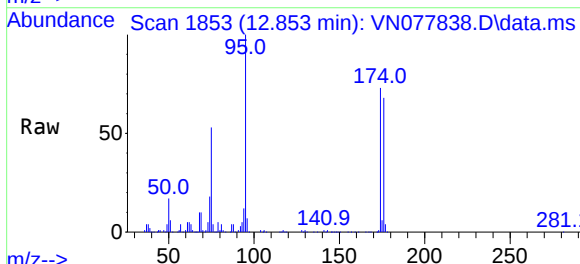
Ion	Ratio	Lower	Upper
43	100		
70	0.0	43.4	65.2#
55	15.5	21.4	32.0#
61	0.0	22.8	34.2#

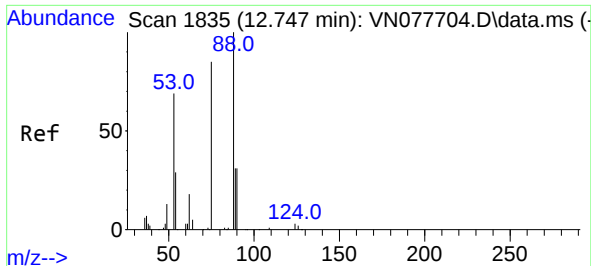


#76
1,2,3-Trichloropropane
Concen: 26.046 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 75 Resp: 154249

Ion	Ratio	Lower	Upper
75	100		
77	1.3	84.5	253.5#

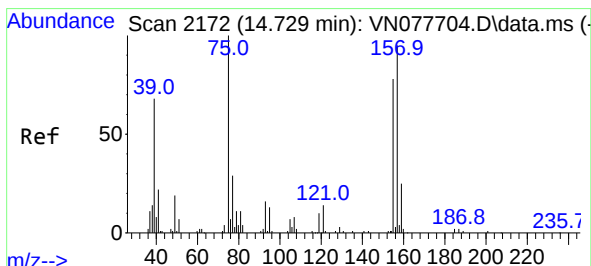
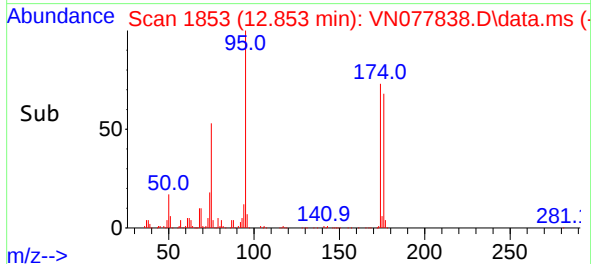
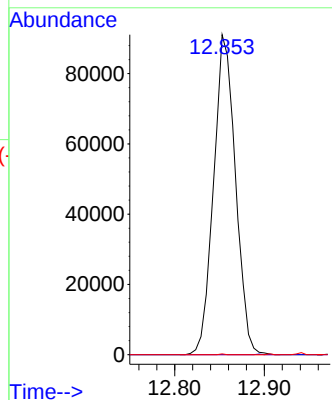
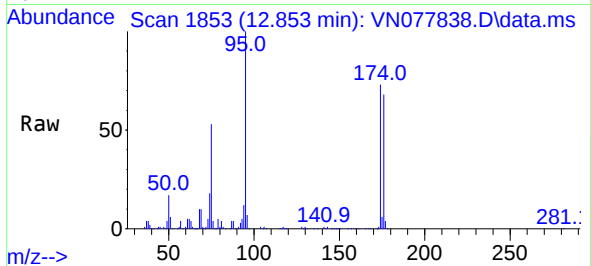




#81
trans-1,4-Dichloro-2-butene
Concen: 83.257 ug/l
RT: 12.853 min Scan# 1835
Delta R.T. 0.112 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Instrument :
MSVOA_N
ClientSampleId :
TP-31

Tgt Ion: 75 Resp: 154249
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.340 ug/l
RT: 14.488 min Scan# 2131
Delta R.T. -0.235 min
Lab File: VN077838.D
Acq: 24 May 2023 04:14

Tgt Ion: 75 Resp: 413
Ion Ratio Lower Upper
75 100
155 54.7 39.1 117.2
157 148.4 50.3 150.9

