

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077840.D
 Acq On : 24 May 2023 05:01
 Operator : JC\MD
 Sample : 02892-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-32

Quant Time: May 24 06:00:06 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)

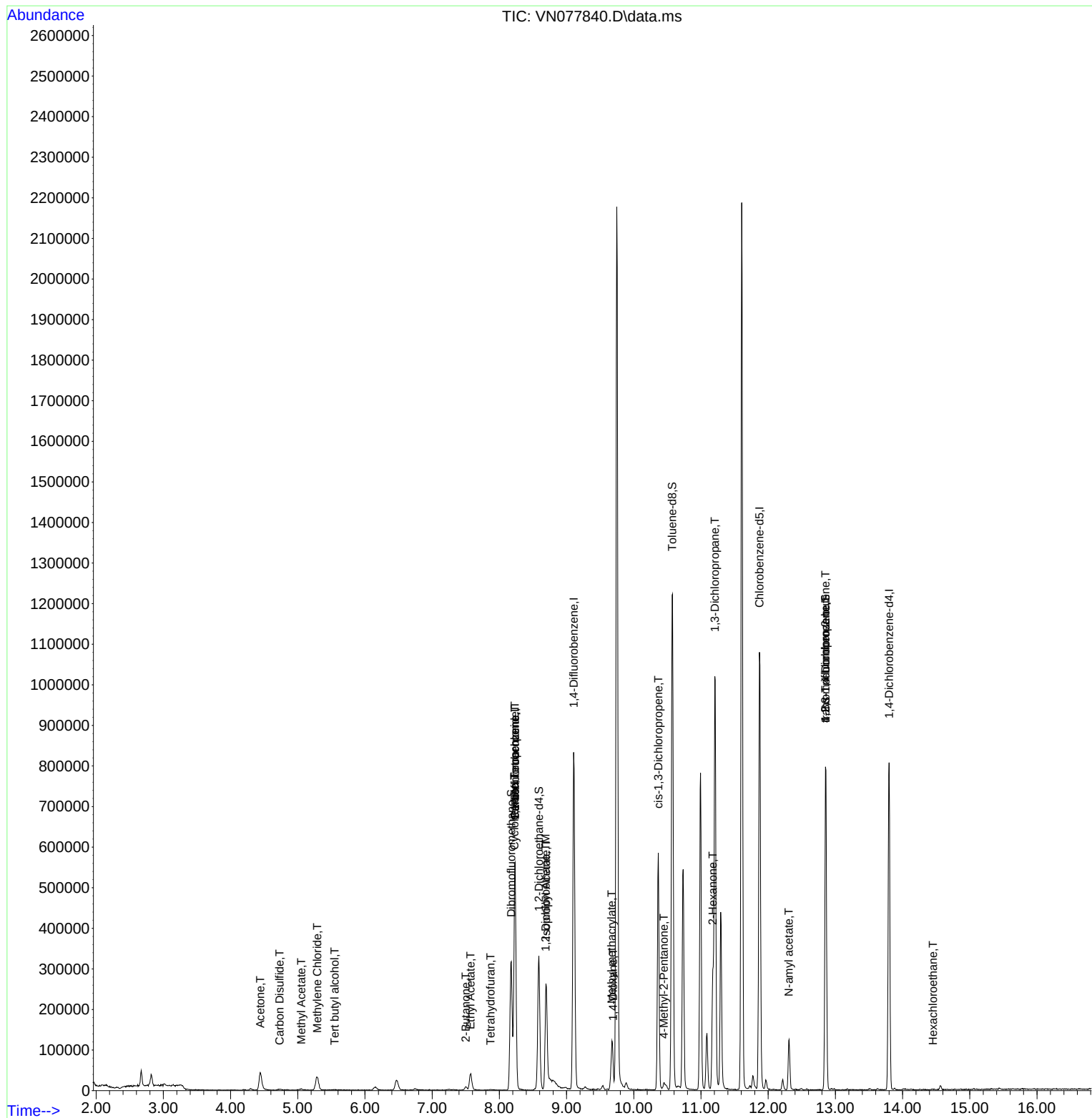
Internal Standards						
1) Pentafluorobenzene	8.235	168	398425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	733776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	657183	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	229140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	268252	44.998	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.000%		
35) Dibromofluoromethane	8.177	113	227247	47.493	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.980%		
50) Toluene-d8	10.571	98	908391	49.323	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.640%		
62) 4-Bromofluorobenzene	12.853	95	288414	44.340	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.680%		
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	781	Below Cal		93
11) Tert butyl alcohol	5.547	59	312	0.379 ug/l #		72
13) Acrolein	4.200	56	1629	Below Cal #		78
16) Acetone	4.442	43	82096	43.772 ug/l		94
17) Carbon Disulfide	4.730	76	2284	0.202 ug/l #		75
18) Methyl Acetate	5.053	43	5773	0.734 ug/l #		70
20) Methylene Chloride	5.289	84	27938	3.901 ug/l		88
25) 2-Butanone	7.500	43	13020	4.438 ug/l #		71
29) Tetrahydrofuran	7.871	42	854	0.445 ug/l #		36
31) Cyclohexane	8.224	56	9554	1.179 ug/l #		54
36) 1,1-Dichloropropene	8.230	75	34152	4.880 ug/l #		48
37) Ethyl Acetate	7.571	43	62342	9.994 ug/l		97
38) Carbon Tetrachloride	8.230	117	42978	6.081 ug/l #		16
42) 1,2-Dichloroethane	8.688	62	2096	0.279 ug/l #		73
43) Isopropyl Acetate	8.694	43	318009	31.211 ug/l #		82
48) Methyl methacrylate	9.671	41	7542	1.561 ug/l #		35
49) 1,4-Dioxane	9.694	88	55	0.603 ug/l #		1
51) 4-Methyl-2-Pentanone	10.447	43	9787	1.616 ug/l		93
54) cis-1,3-Dichloropropene	10.365	75	103987	12.347 ug/l #		69
57) 1,3-Dichloropropane	11.206	76	11657	1.332 ug/l #		42
59) 2-Hexanone	11.176	43	223095	49.801 ug/l #		19
74) N-amyl acetate	12.306	43	40966	5.611 ug/l #		46
76) 1,2,3-Trichloropropane	12.853	75	158036	27.540 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	158036	88.031 ug/l #		15
90) Hexachloroethane	14.453	117	709	0.263 ug/l #		21

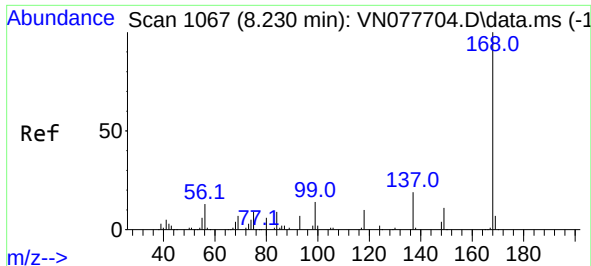
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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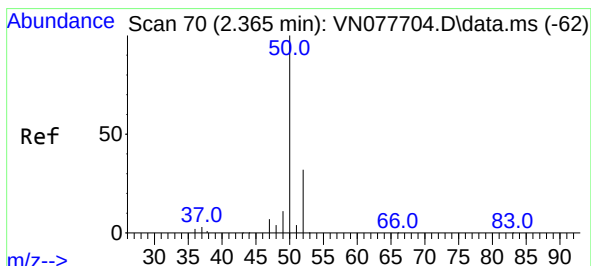
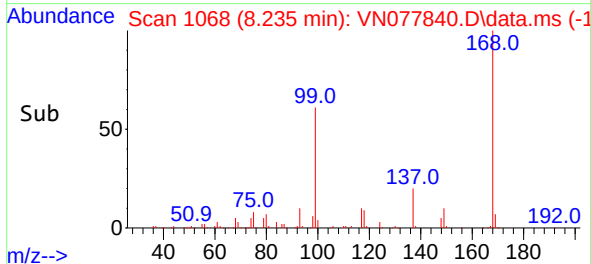
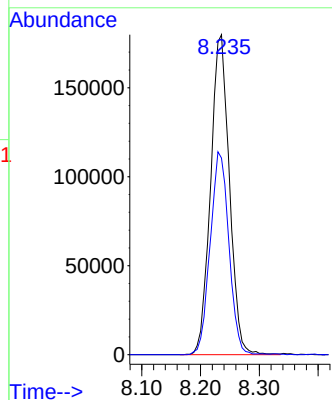
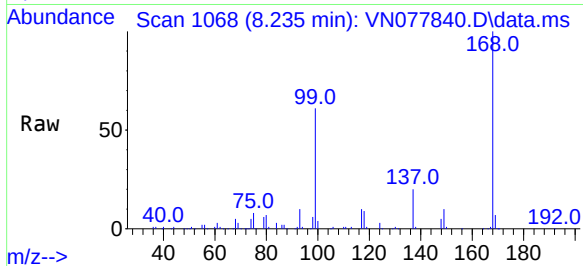




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

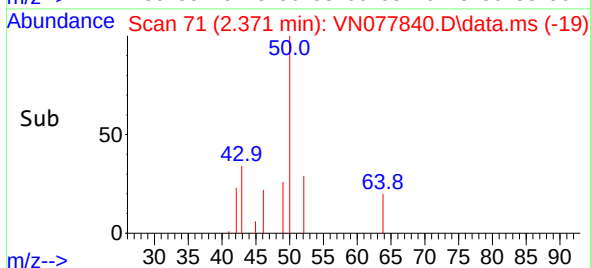
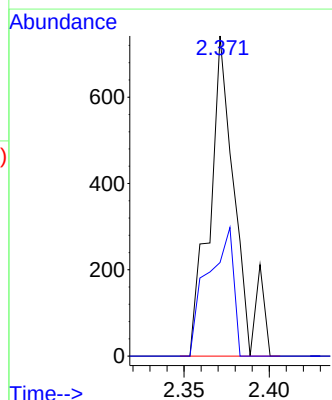
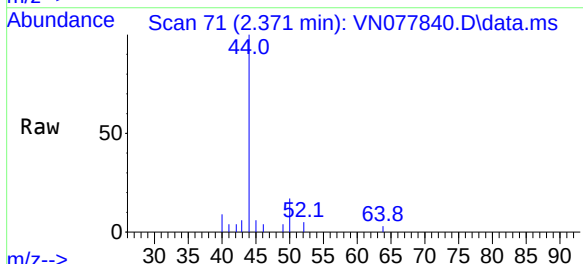
Instrument :
MSVOA_N
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TP-32

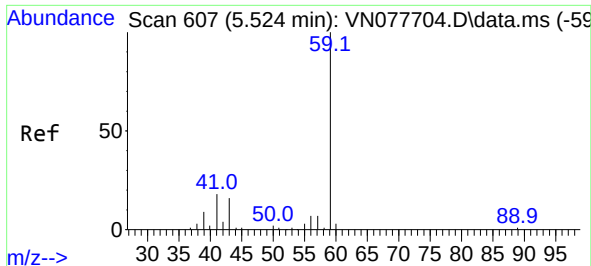
Tgt Ion:168 Resp: 398425
Ion Ratio Lower Upper
168 100
99 61.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 50 Resp: 781
Ion Ratio Lower Upper
50 100
52 29.2 26.5 39.7





#11

Tert butyl alcohol

Concen: 0.379 ug/l

RT: 5.547 min Scan# 611

Delta R.T. 0.017 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

Instrument :

MSVOA_N

ClientSampleId :

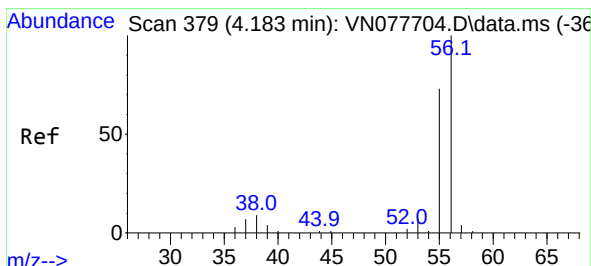
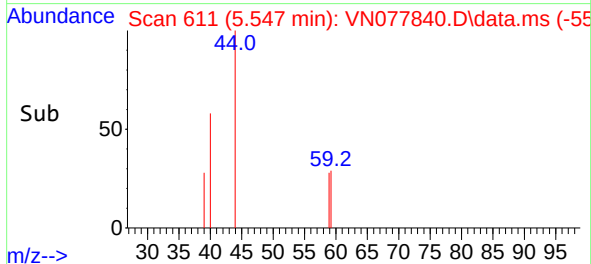
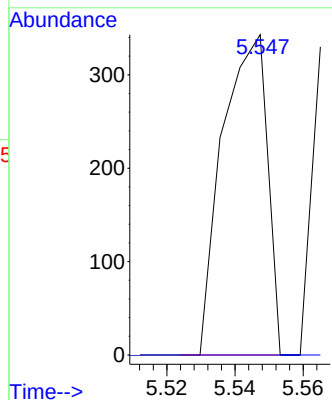
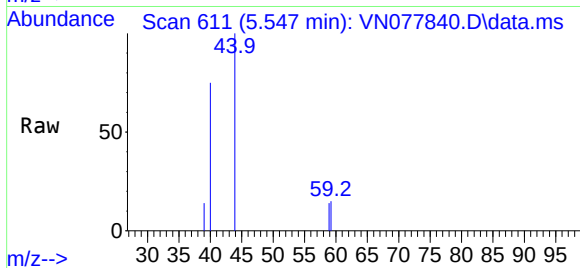
TP-32

Tgt Ion: 59 Resp: 312

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.200 min Scan# 382

Delta R.T. 0.011 min

Lab File: VN077840.D

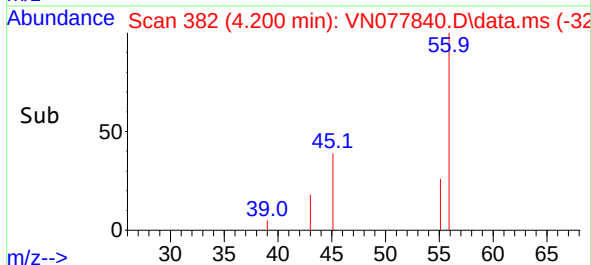
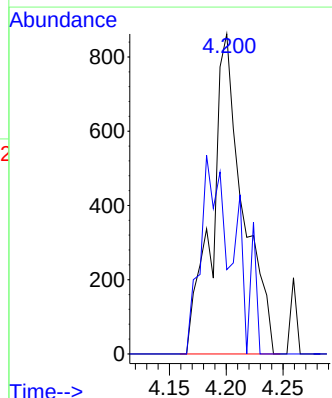
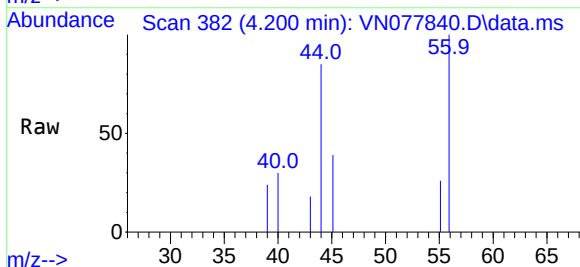
Acq: 24 May 2023 05:01

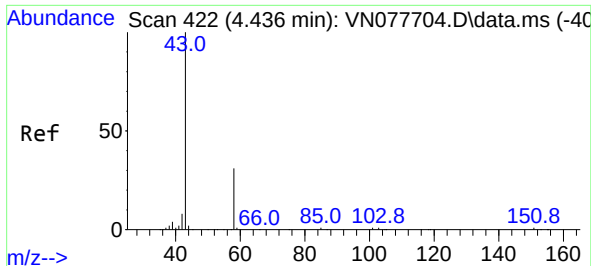
Tgt Ion: 56 Resp: 1629

Ion Ratio Lower Upper

56 100

55 49.9 54.5 81.7#

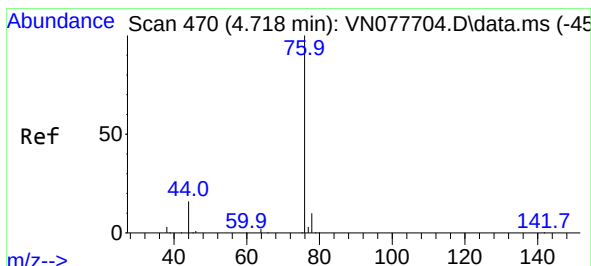
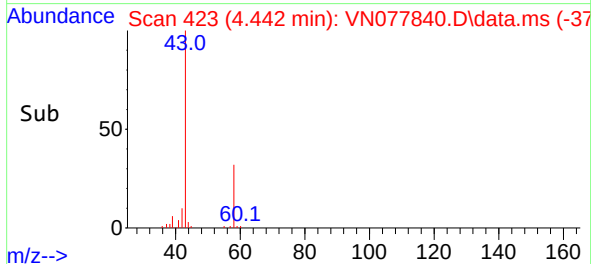
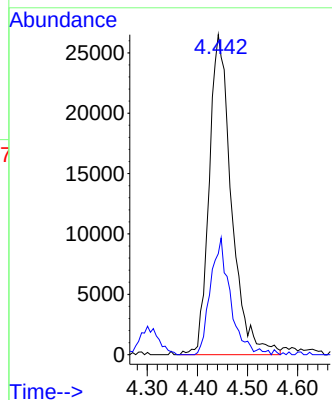
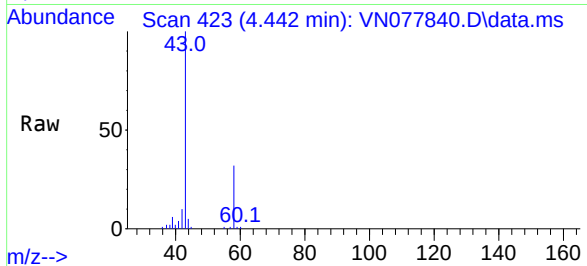




#16
Acetone
Concen: 43.772 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

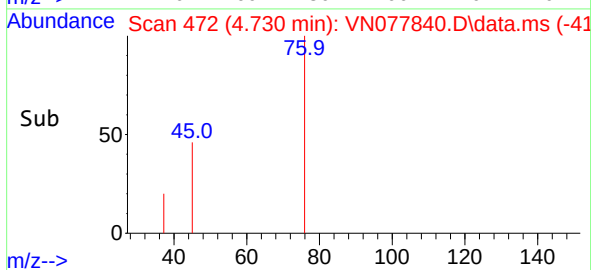
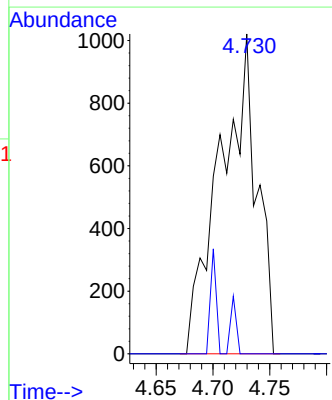
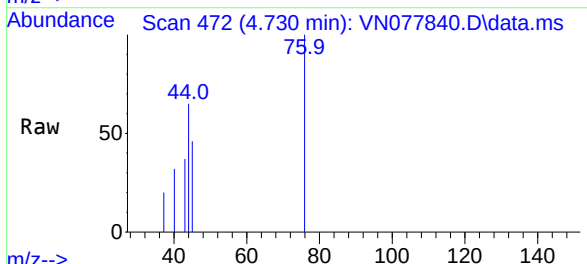
Instrument :
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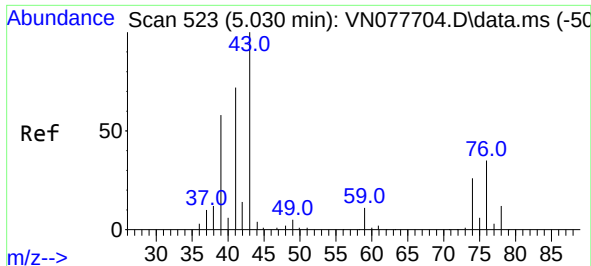
Tgt Ion: 43 Resp: 82096
Ion Ratio Lower Upper
43 100
58 31.5 28.0 42.0



#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 4.730 min Scan# 472
Delta R.T. 0.018 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 76 Resp: 2284
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

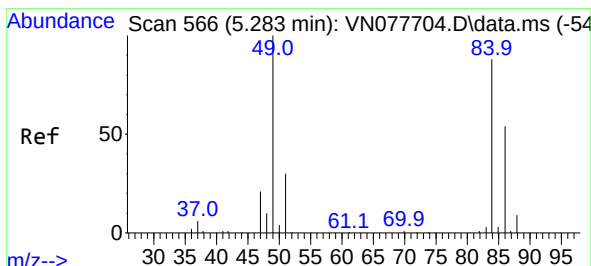
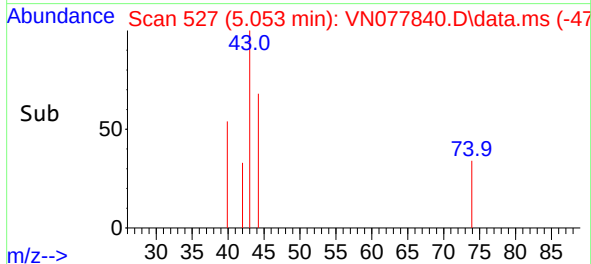
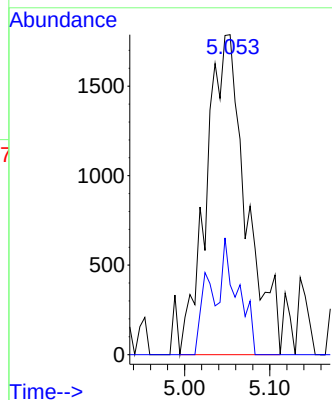
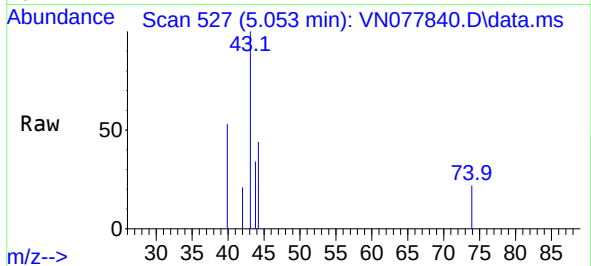




#18
Methyl Acetate
Concen: 0.734 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

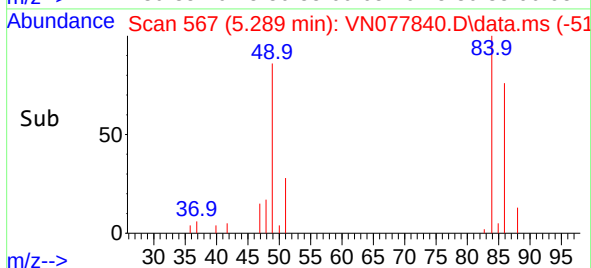
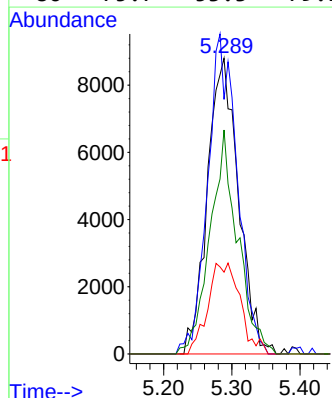
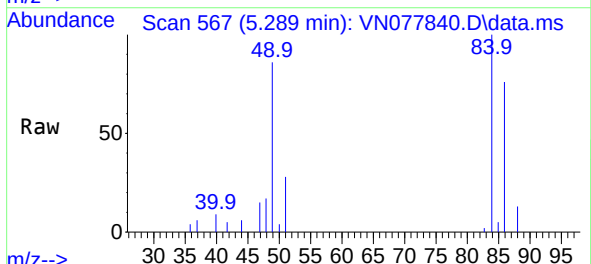
Instrument :
MSVOA_N
ClientSampleId :
TP-32

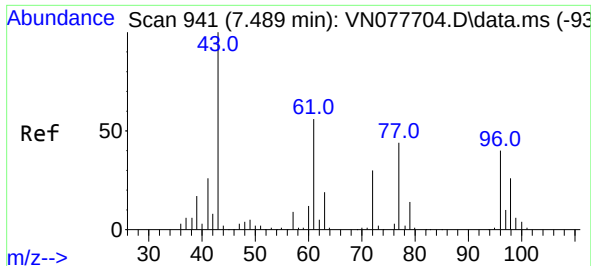
Tgt Ion: 43 Resp: 5773
Ion Ratio Lower Upper
43 100
74 15.6 26.2 39.4#



#20
Methylene Chloride
Concen: 3.901 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 84 Resp: 27938
Ion Ratio Lower Upper
84 100
49 86.1 79.7 119.5
51 27.7 25.2 37.8
86 75.7 53.3 79.9





#25

2-Butanone

Concen: 4.438 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

Instrument :

MSVOA_N

ClientSampleId :

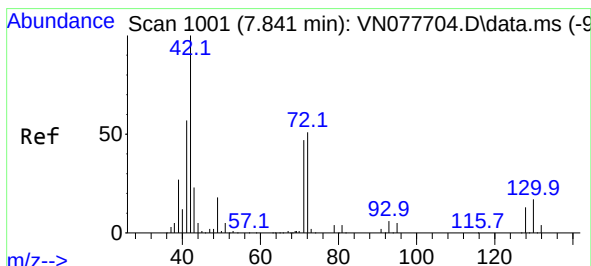
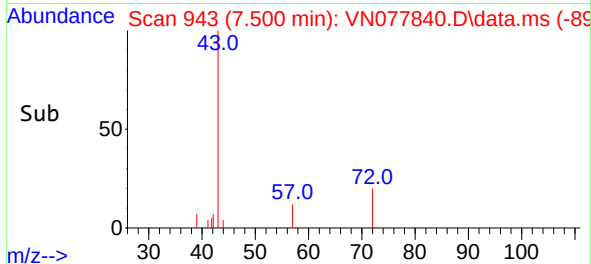
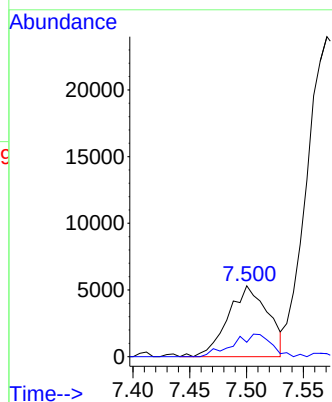
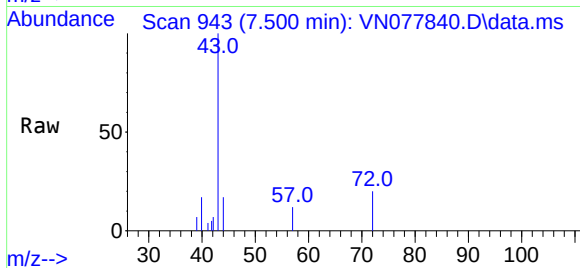
TP-32

Tgt Ion: 43 Resp: 13020

Ion Ratio Lower Upper

43 100

72 20.4 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.445 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.030 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

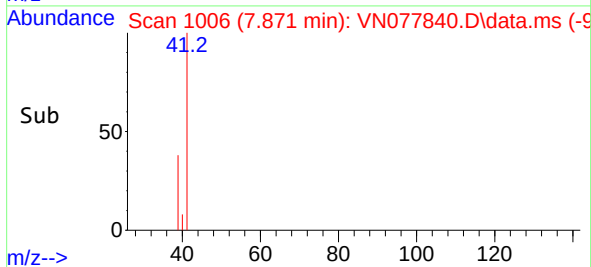
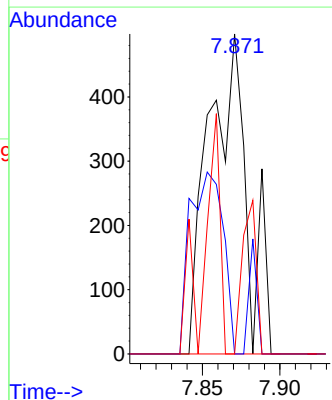
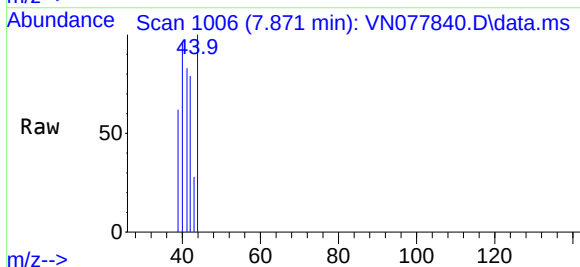
Tgt Ion: 42 Resp: 854

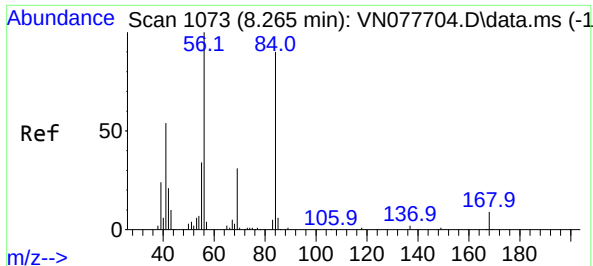
Ion Ratio Lower Upper

42 100

72 7.4 49.8 74.6#

71 17.6 47.4 71.2#





#31

Cyclohexane

Concen: 1.179 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

Instrument :

MSVOA_N

ClientSampleId :

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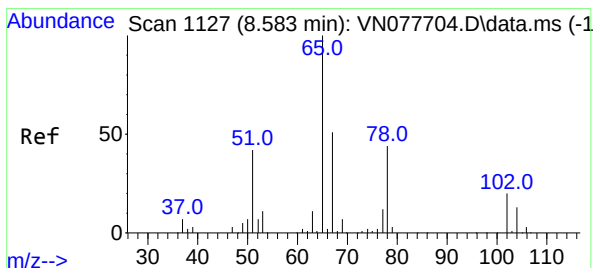
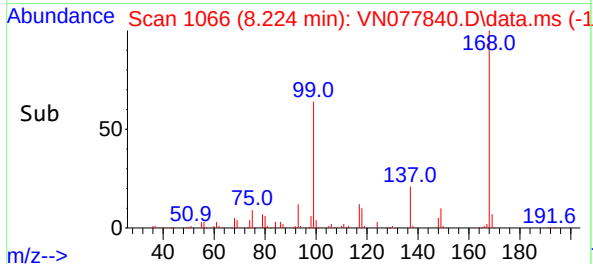
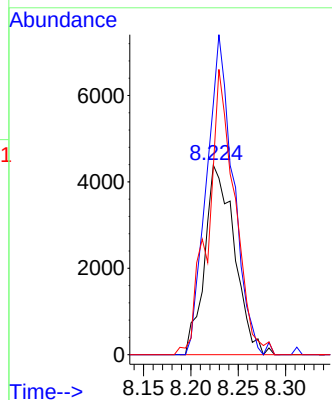
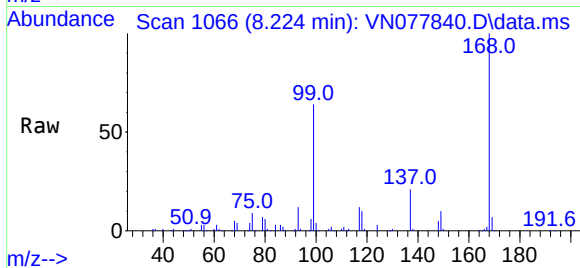
Tgt Ion: 56 Resp: 9554

Ion Ratio Lower Upper

56 100

69 132.4 26.8 40.2#

84 98.6 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 44.998 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077840.D

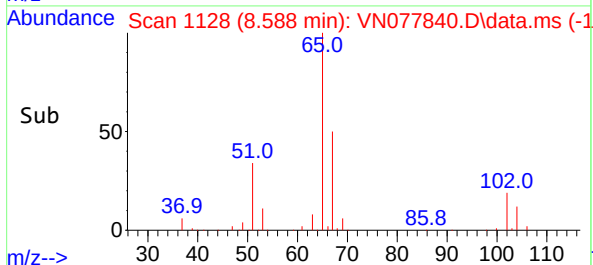
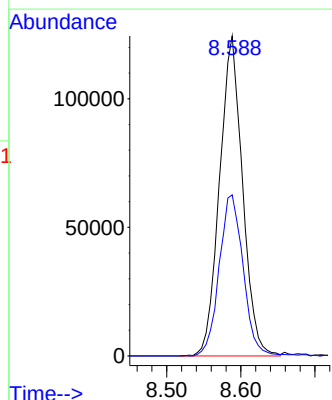
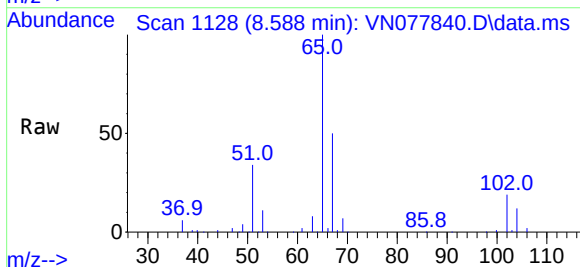
Acq: 24 May 2023 05:01

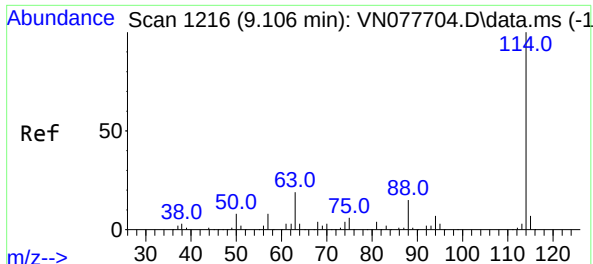
Tgt Ion: 65 Resp: 268252

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.6

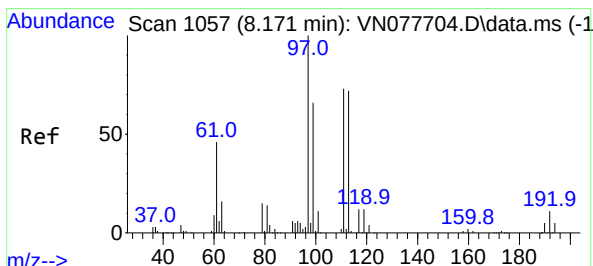
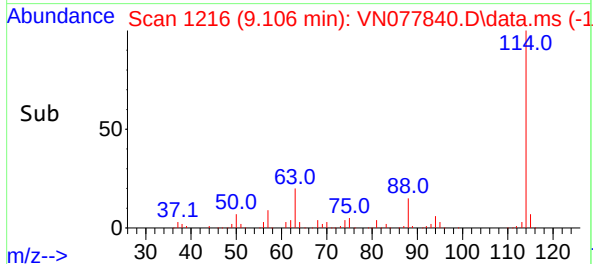
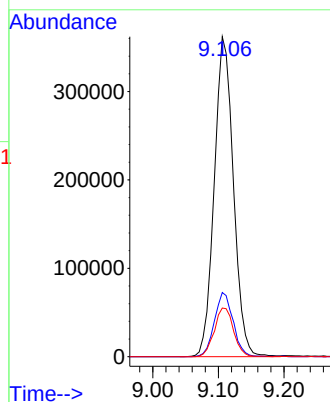
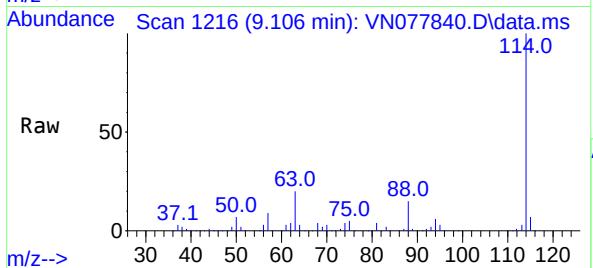




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

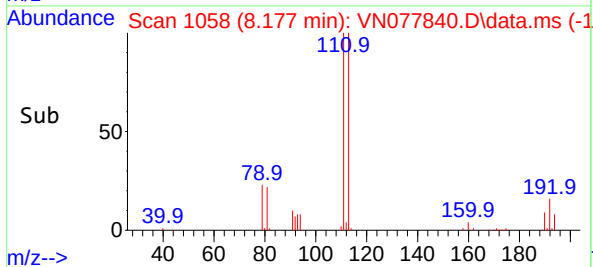
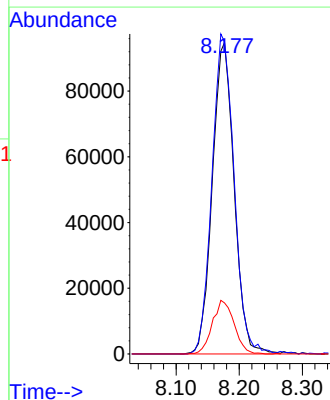
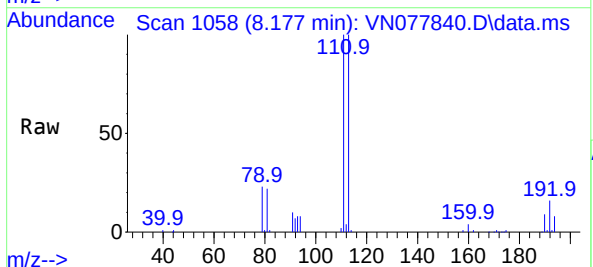
Instrument :
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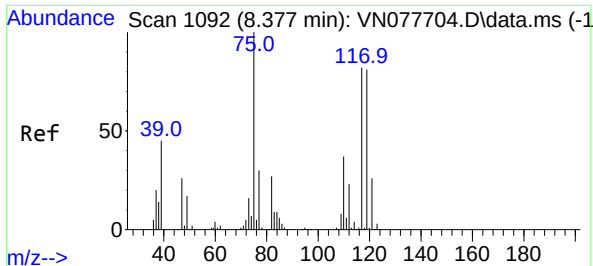
Tgt Ion:114 Resp: 733776
Ion Ratio Lower Upper
114 100
63 20.0 0.0 36.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.493 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion:113 Resp: 227247
Ion Ratio Lower Upper
113 100
111 104.1 82.6 123.8
192 17.2 12.7 19.1

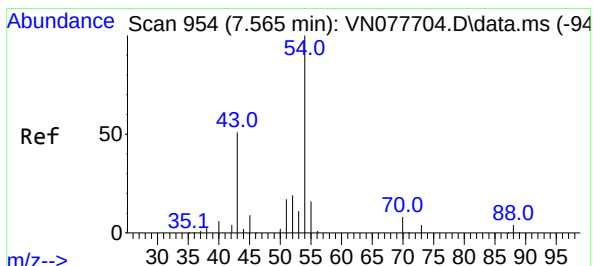
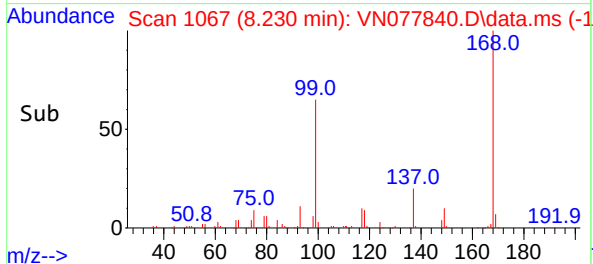
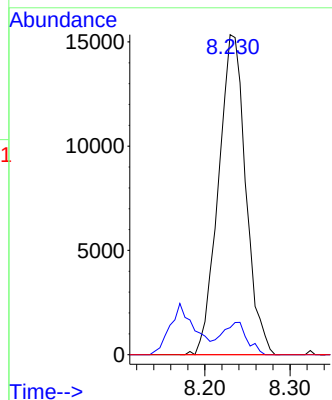
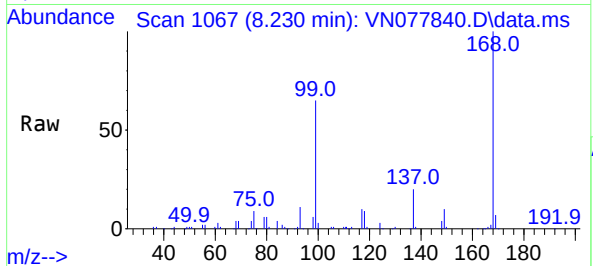




#36
1,1-Dichloropropene
Concen: 4.880 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

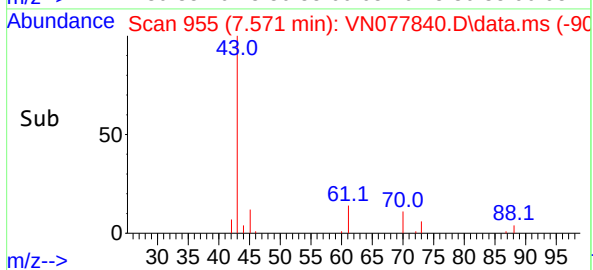
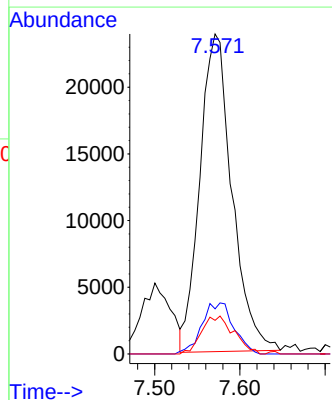
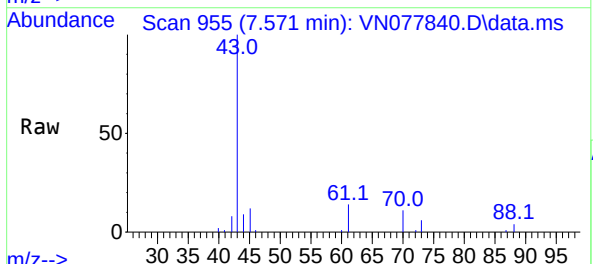
Instrument :
MSVOA_N
ClientSampleId :
TP-32

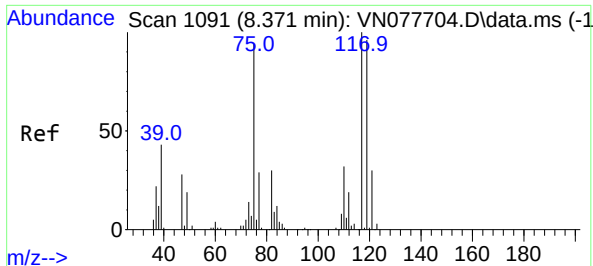
Tgt Ion: 75 Resp: 34152
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 9.994 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.006 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

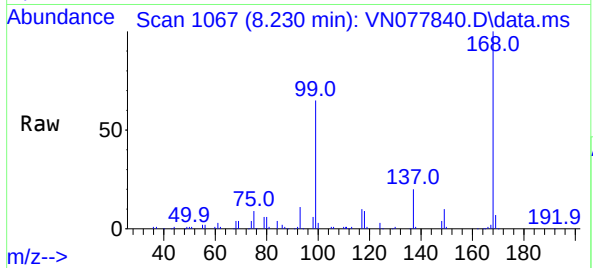
Tgt Ion: 43 Resp: 62342
Ion Ratio Lower Upper
43 100
61 16.0 13.2 19.8
70 12.0 11.3 16.9



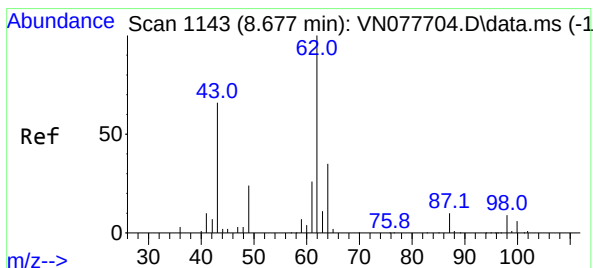
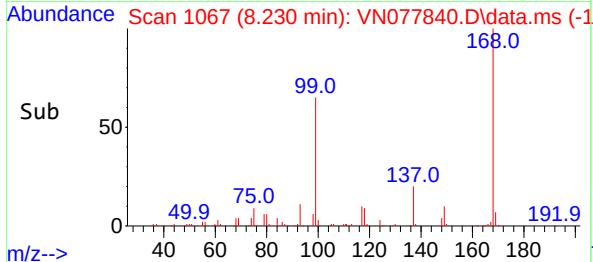
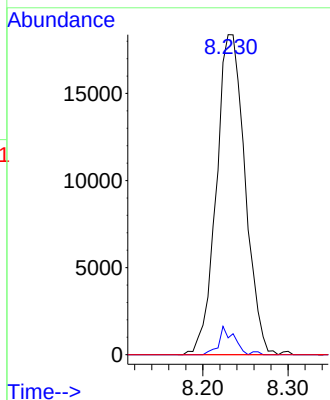


#38
Carbon Tetrachloride
Concen: 6.081 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Instrument :
MSVOA_N
ClientSampleId :
TP-32

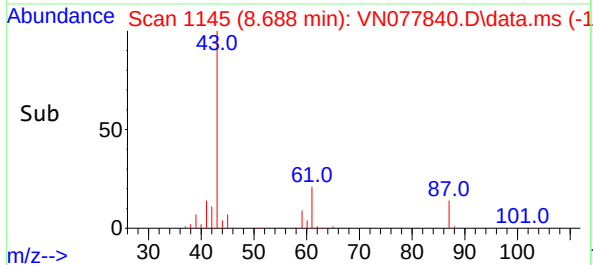
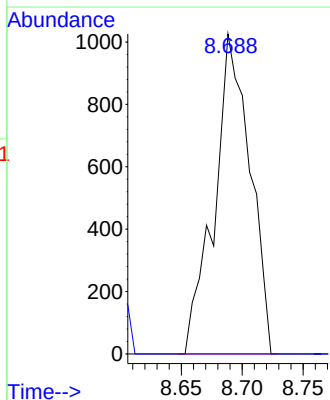
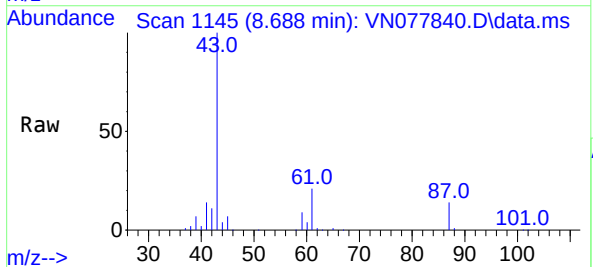


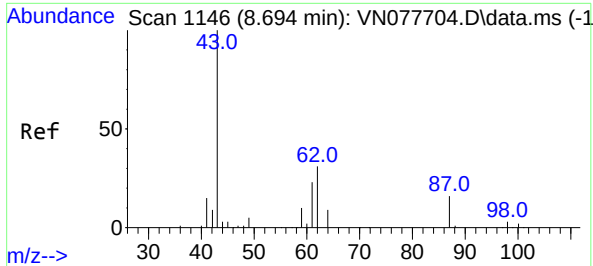
Tgt Ion:117 Resp: 42978
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.279 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.011 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 62 Resp: 2096
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

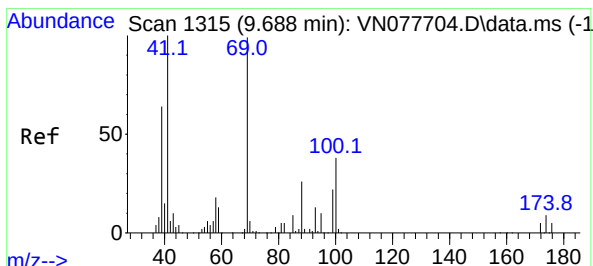
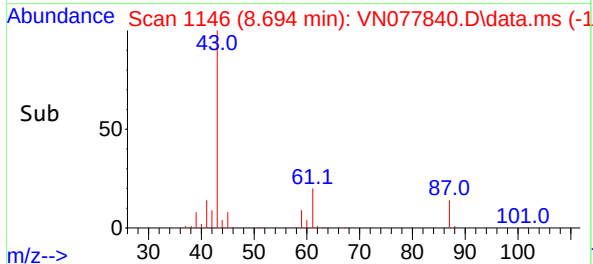
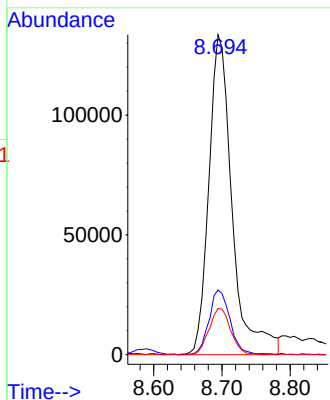
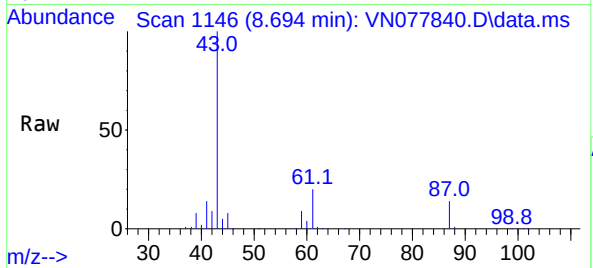




#43
Isopropyl Acetate
Concen: 31.211 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

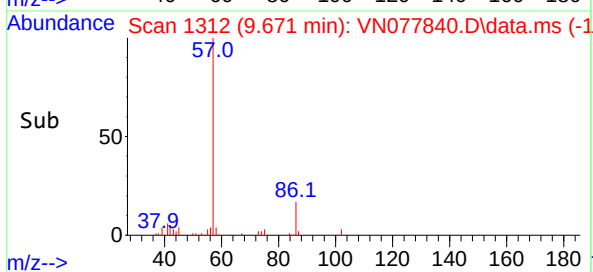
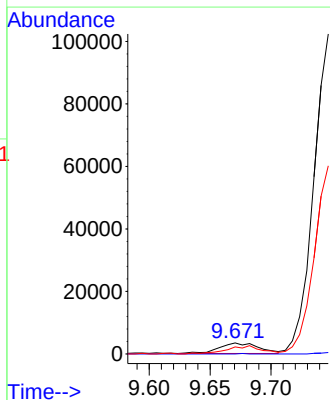
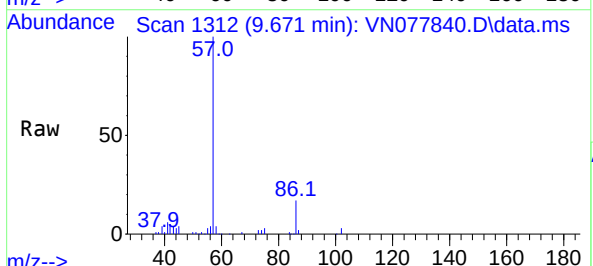
Instrument :
MSVOA_N
ClientSampleId :
TP-32

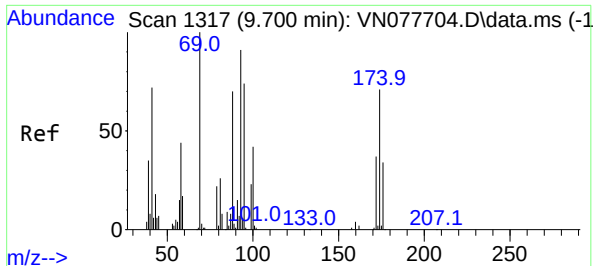
Tgt Ion: 43 Resp: 318009
Ion Ratio Lower Upper
43 100
61 18.3 24.7 37.1#
87 13.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.561 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.017 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 41 Resp: 7542
Ion Ratio Lower Upper
41 100
69 0.8 90.4 135.6#
39 68.7 54.6 81.8

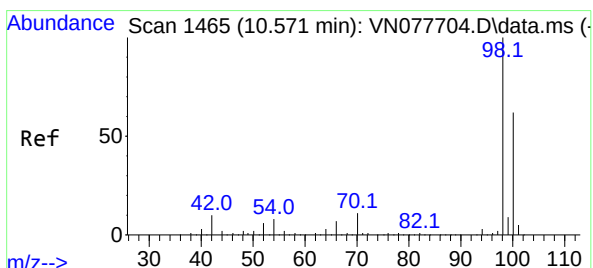
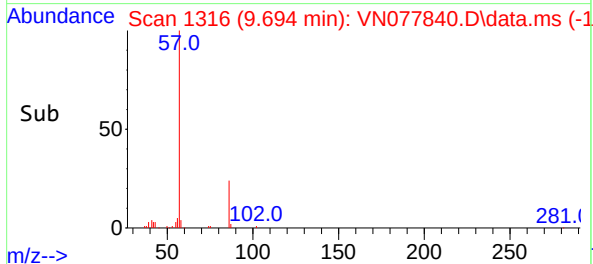
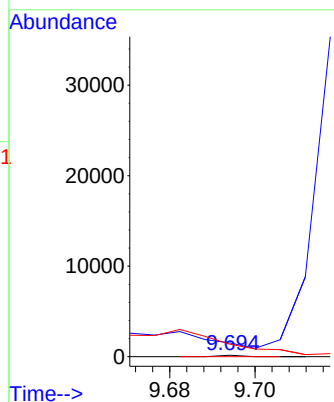
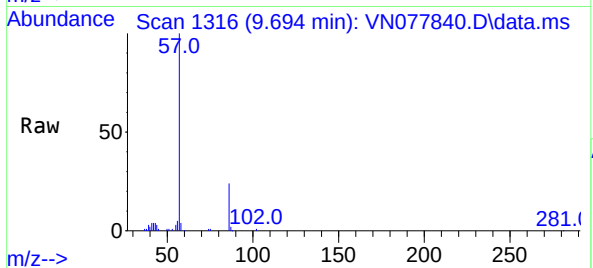




#49
1,4-Dioxane
Concen: 0.603 ug/l
RT: 9.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

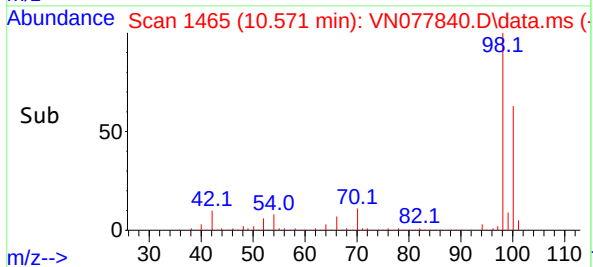
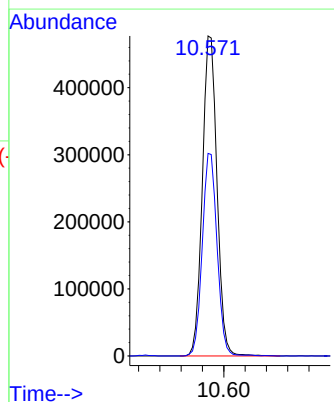
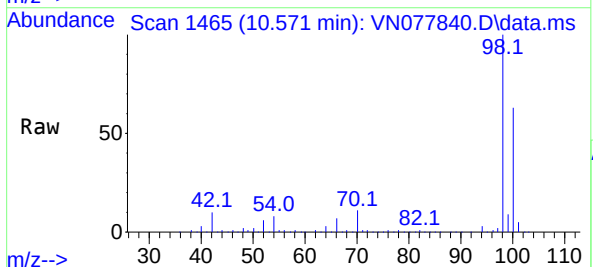
Instrument :
MSVOA_N
ClientSampleId :
TP-32

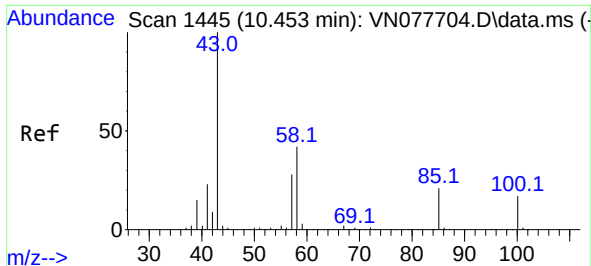
Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 11647.3 47.0 70.4#



#50
Toluene-d8
Concen: 49.323 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 98 Resp: 908391
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.616 ug/l

RT: 10.447 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

Instrument :

MSVOA_N

ClientSampleId :

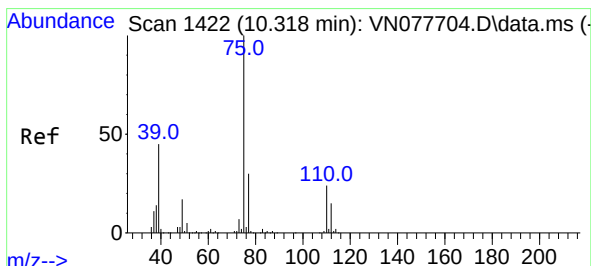
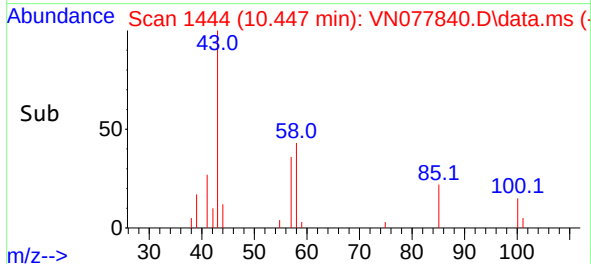
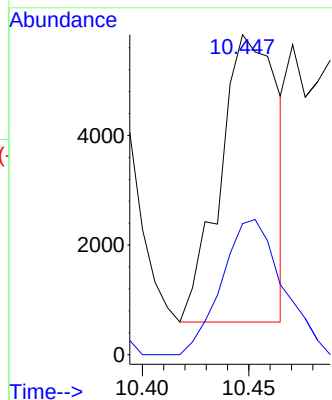
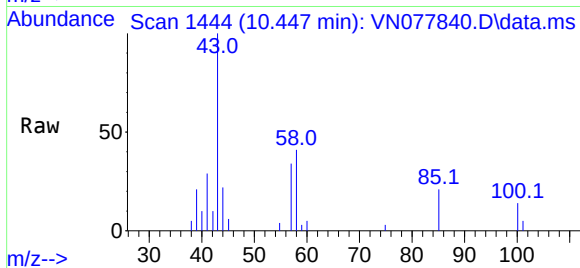
TP-32

Tgt Ion: 43 Resp: 9787

Ion Ratio Lower Upper

43 100

58 50.1 36.6 54.8



#54

cis-1,3-Dichloropropene

Concen: 12.347 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

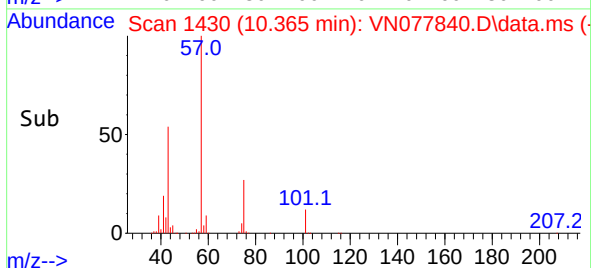
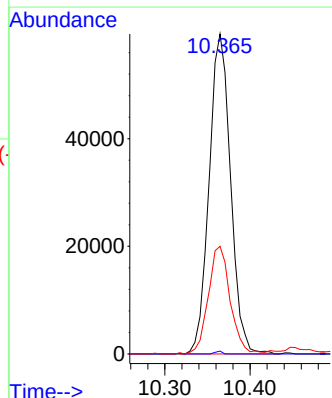
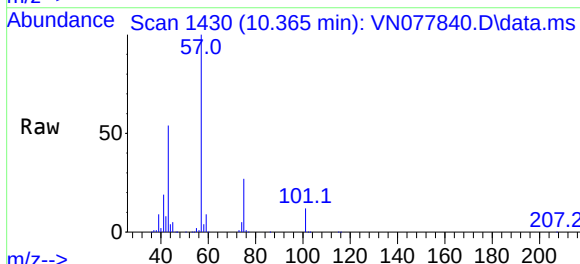
Tgt Ion: 75 Resp: 103987

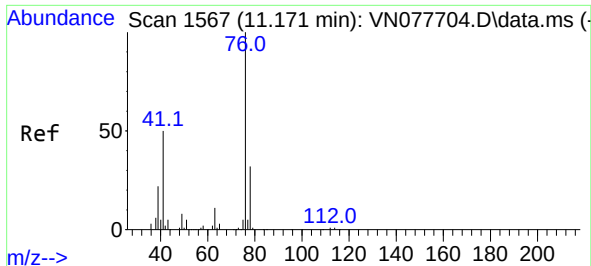
Ion Ratio Lower Upper

75 100

77 0.9 26.1 39.1#

39 33.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.332 ug/l

RT: 11.206 min Scan# 11657

Delta R.T. 0.035 min

Lab File: VN077840.D

Acq: 24 May 2023 05:01

Instrument :

MSVOA_N

ClientSampleId :

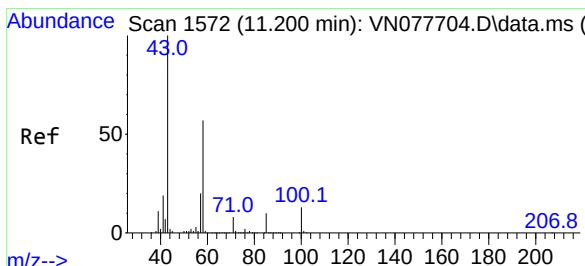
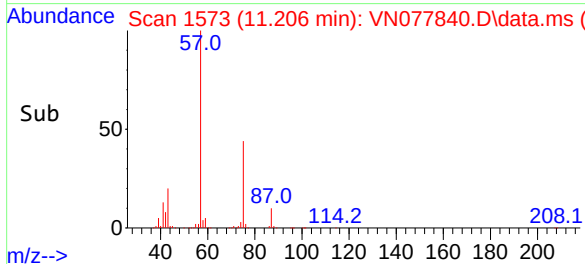
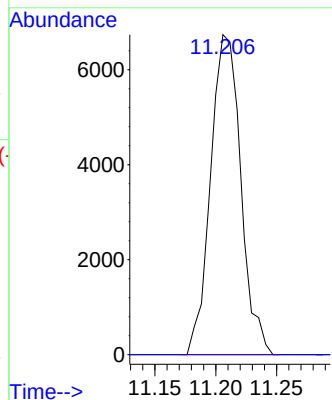
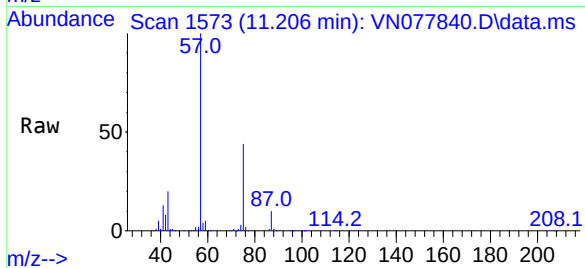
TP-32

Tgt Ion: 76 Resp: 11657

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 49.801 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN077840.D

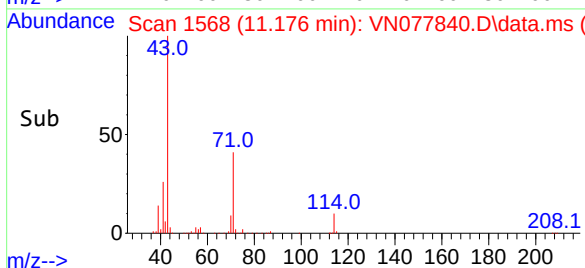
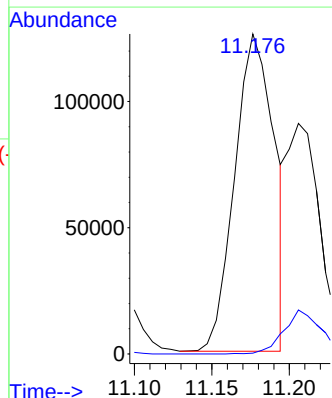
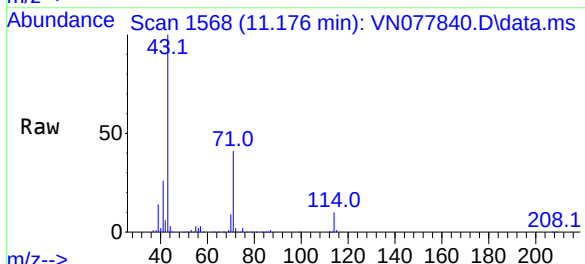
Acq: 24 May 2023 05:01

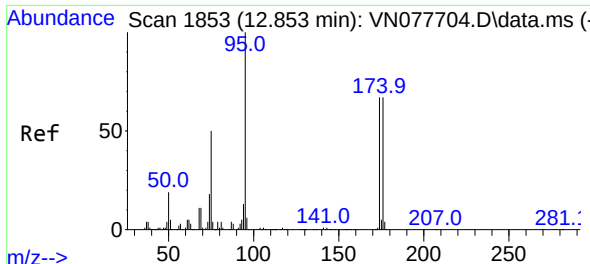
Tgt Ion: 43 Resp: 223095

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

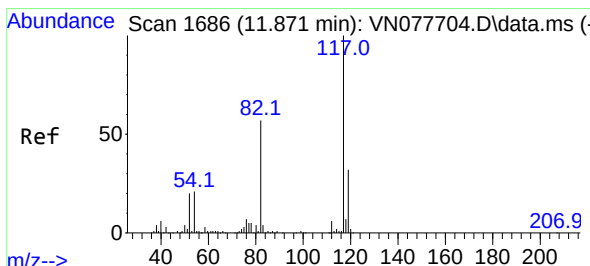
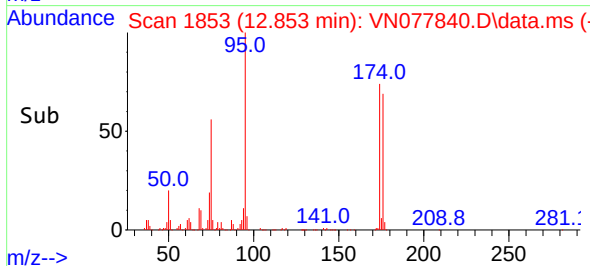
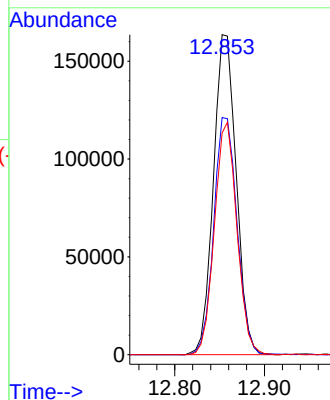
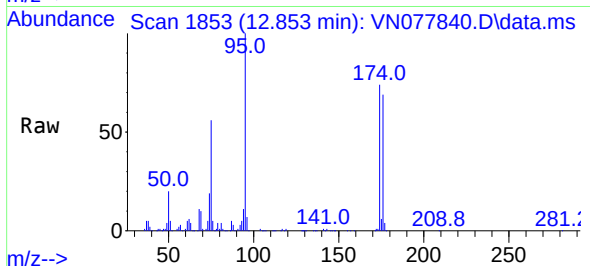




#62
4-Bromofluorobenzene
Concen: 44.340 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

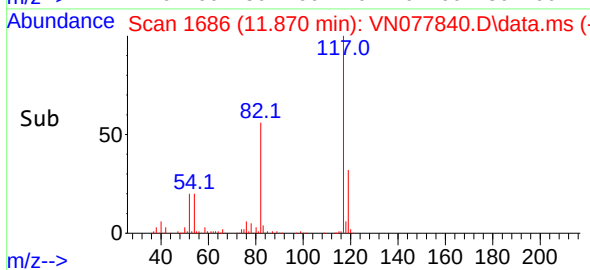
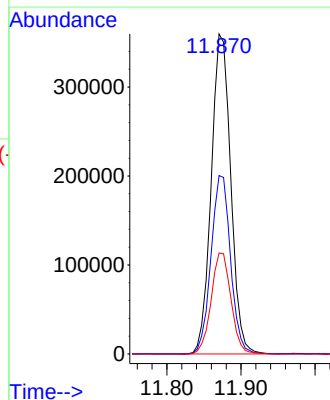
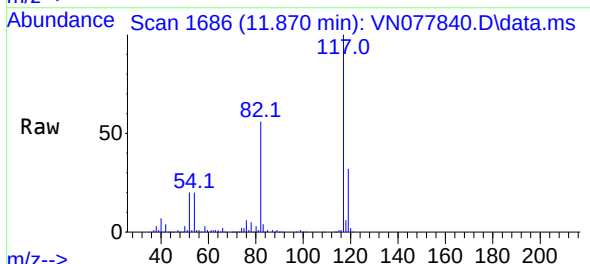
Instrument :
MSVOA_N
ClientSampleId :
TP-32

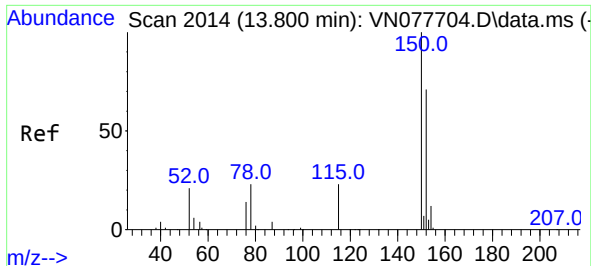
Tgt Ion: 95 Resp: 288414
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 71.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

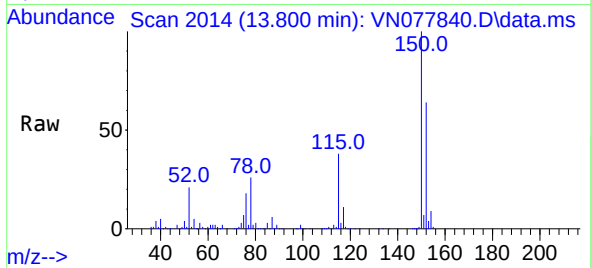
Tgt Ion: 117 Resp: 657183
Ion Ratio Lower Upper
117 100
82 55.7 44.0 66.0
119 31.5 25.6 38.4



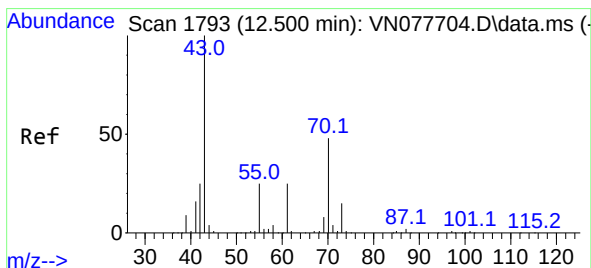
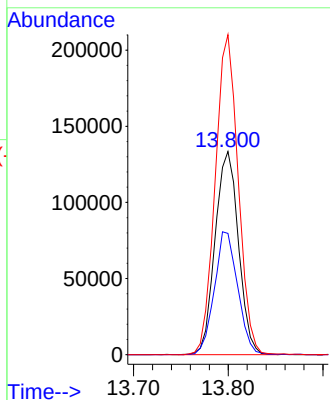
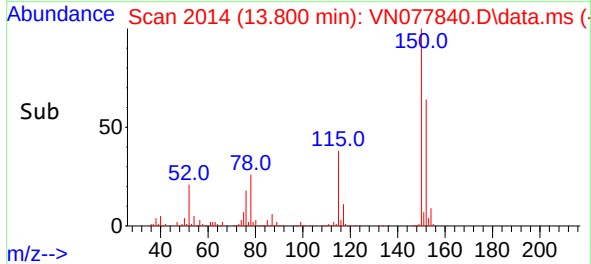


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

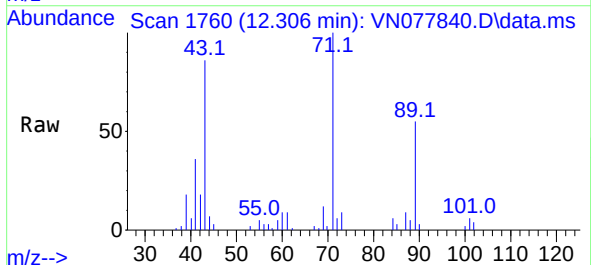
Instrument :
MSVOA_N
ClientSampleId :
TP-32



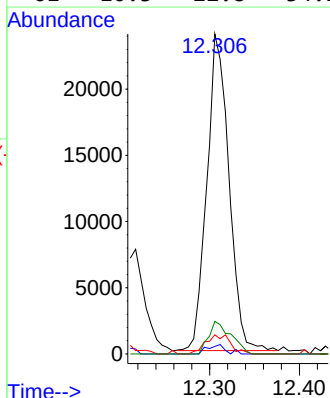
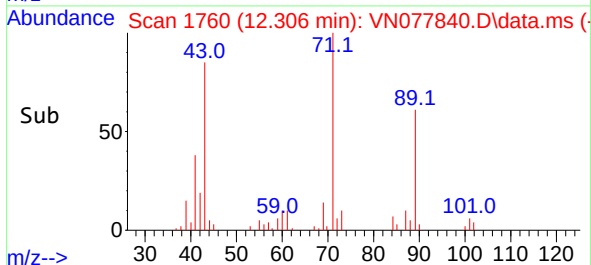
Tgt Ion:152 Resp: 229140
Ion Ratio Lower Upper
152 100
115 60.6 32.3 96.8
150 154.8 0.0 355.8

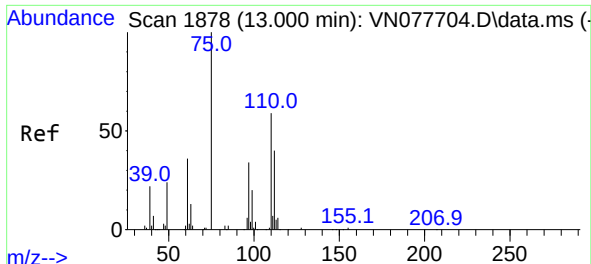


#74
N-ethyl acetate
Concen: 5.611 ug/l
RT: 12.306 min Scan# 1760
Delta R.T. -0.194 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01



Tgt Ion: 43 Resp: 40966
Ion Ratio Lower Upper
43 100
70 2.1 43.4 65.2#
55 6.8 21.4 32.0#
61 10.3 22.8 34.2#

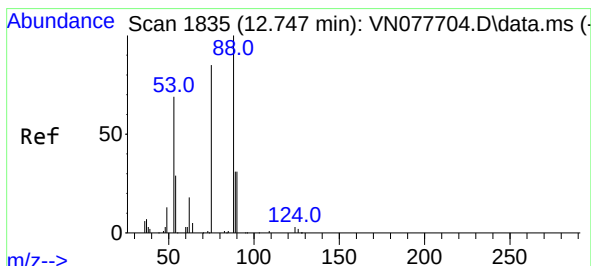
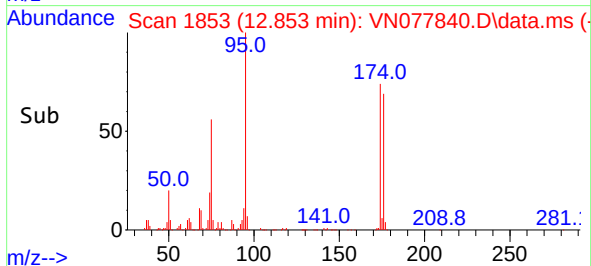
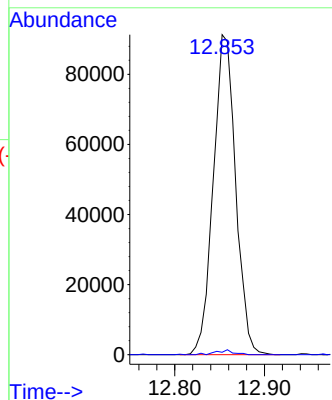
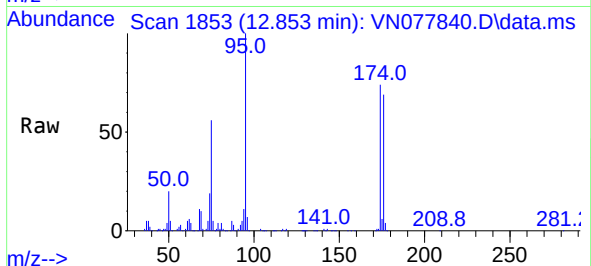




#76
1,2,3-Trichloropropane
Concen: 27.540 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

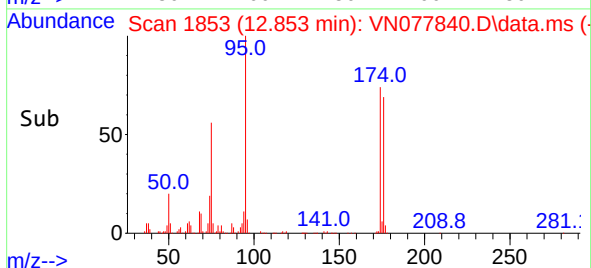
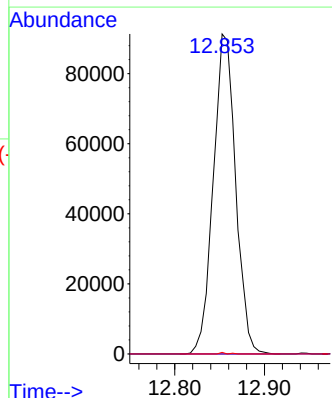
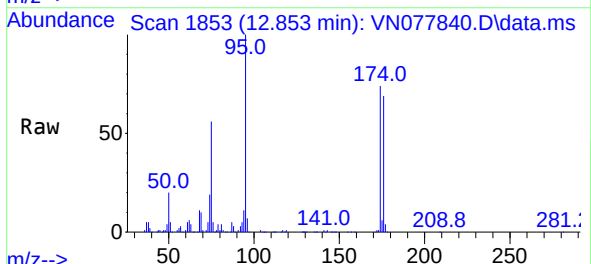
Instrument :
MSVOA_N
ClientSampleId :
TP-32

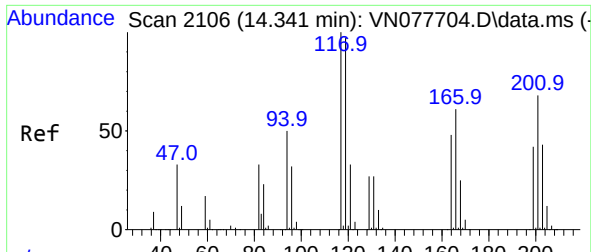
Tgt Ion: 75 Resp: 158036
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.031 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077840.D
Acq: 24 May 2023 05:01

Tgt Ion: 75 Resp: 158036
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.2 38.8 58.2#





#90
 Hexachloroethane
 Concen: 0.263 ug/l
 RT: 14.453 min Scan# 21
 Delta R.T. 0.112 min
 Lab File: VN077840.D
 Acq: 24 May 2023 05:01

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-32

Tgt Ion:117 Resp: 709
 Ion Ratio Lower Upper
 117 100
 201 0.0 29.3 88.0#

