

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052623\
 Data File : VN077950.D
 Acq On : 27 May 2023 02:27
 Operator : JC\MD
 Sample : 02957-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-10-0A

Quant Time: May 29 01:42:11 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

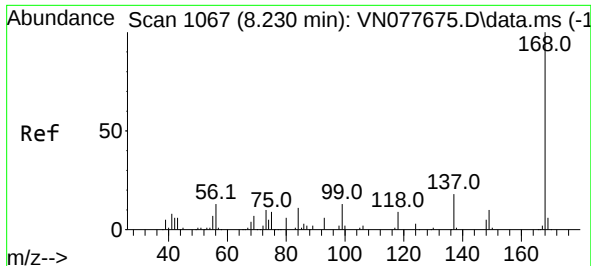
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	383605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	706097	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	647456	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	222162	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	257039	44.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.560%		
35) Dibromofluoromethane	8.177	113	224222	48.698	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.400%		
50) Toluene-d8	10.577	98	879785	49.642	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.280%		
62) 4-Bromofluorobenzene	12.853	95	296352	47.346	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.700%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1228	Below Cal		97
5) Bromomethane	2.971	94	2105	0.517 ug/l #		54
11) Tert butyl alcohol	5.536	59	629	0.794 ug/l #		72
13) Acrolein	4.171	56	56	Below Cal #		16
16) Acetone	4.448	43	32672	18.093 ug/l		91
18) Methyl Acetate	5.036	43	3151	0.416 ug/l		89
20) Methylene Chloride	5.283	84	26807	3.881 ug/l		95
25) 2-Butanone	7.506	43	2769	0.980 ug/l #		83
31) Cyclohexane	8.236	56	9342	1.198 ug/l #		21
36) 1,1-Dichloropropene	8.236	75	32270	4.792 ug/l #		48
37) Ethyl Acetate	7.577	43	60226	10.033 ug/l		98
38) Carbon Tetrachloride	8.230	117	42736	6.284 ug/l #		14
40) Benzene	8.606	78	6713	0.338 ug/l		97
42) 1,2-Dichloroethane	8.700	62	1976	0.274 ug/l #		73
43) Isopropyl Acetate	8.695	43	306582	31.269 ug/l #		80
45) 1,2-Dichloropropane	9.747	63	2748	0.542 ug/l #		45
48) Methyl methacrylate	9.747	41	216418	46.556 ug/l #		29
49) 1,4-Dioxane	9.659	88	57	0.649 ug/l #		30
51) 4-Methyl-2-Pentanone	10.465	43	17016	2.920 ug/l #		63
53) t-1,3-Dichloropropene	10.730	75	2057	0.280 ug/l #		88
54) cis-1,3-Dichloropropene	10.365	75	102421	12.638 ug/l #		68
57) 1,3-Dichloropropane	11.212	76	13012	1.545 ug/l #		42
59) 2-Hexanone	11.177	43	215040	49.885 ug/l #		19
74) N-amyl acetate	12.500	43	2187	0.309 ug/l #		36
76) 1,2,3-Trichloropropane	12.859	75	156544	28.137 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.859	75	156544	89.939 ug/l #		15
95) Naphthalene	15.647	128	199105	13.110 ug/l		98

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

Quant Time: May 29 01:42:11 2023
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QLast Update : Tue May 16 04:07:42 2023
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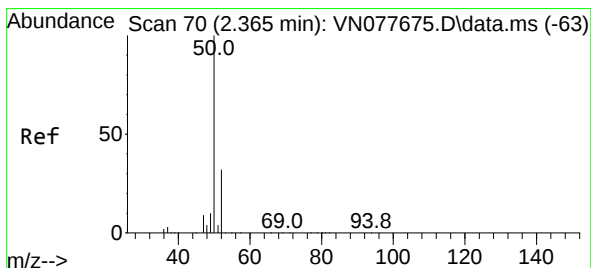
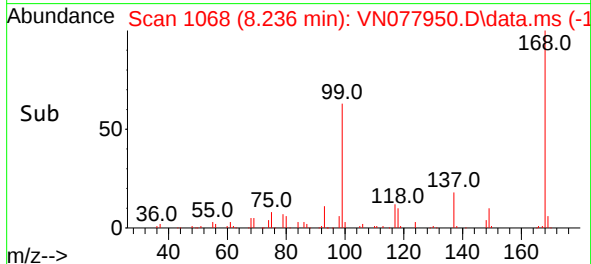
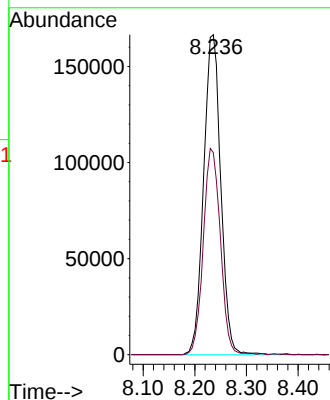
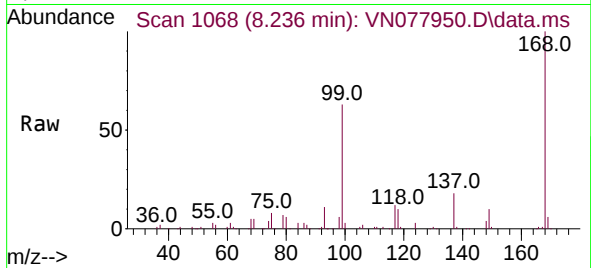




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

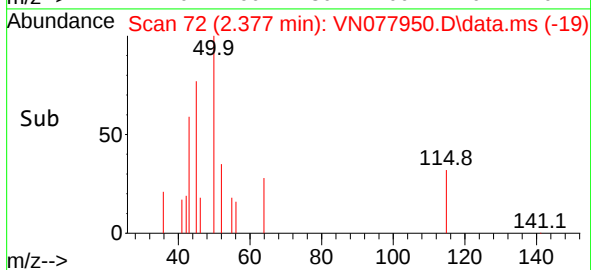
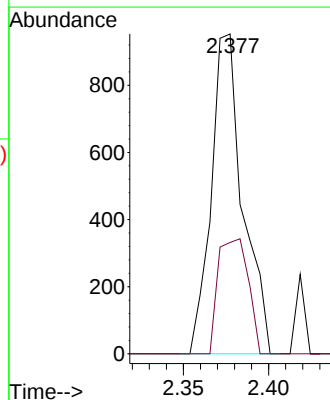
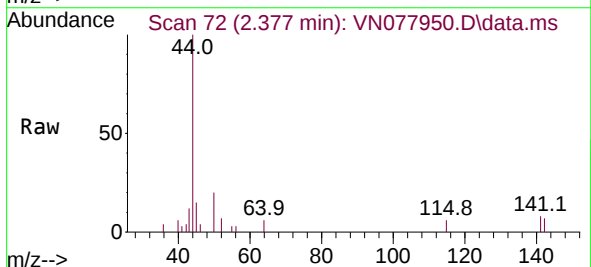
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

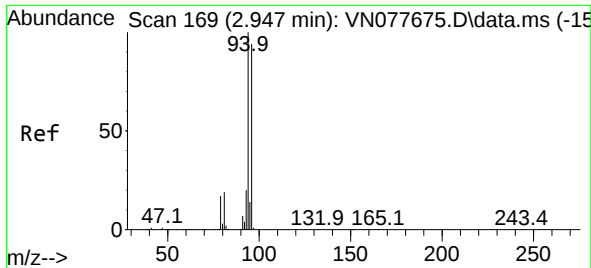
Tgt Ion:168 Resp: 383605
Ion Ratio Lower Upper
168 100
99 63.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 50 Resp: 1228
Ion Ratio Lower Upper
50 100
52 34.8 26.5 39.7

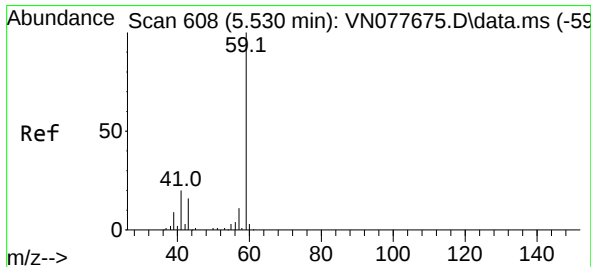
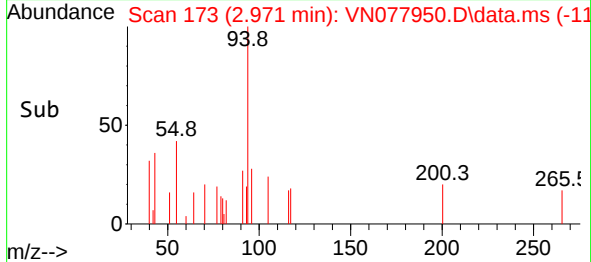
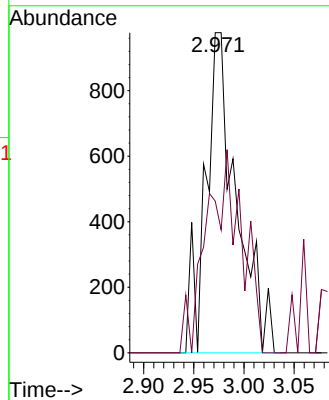
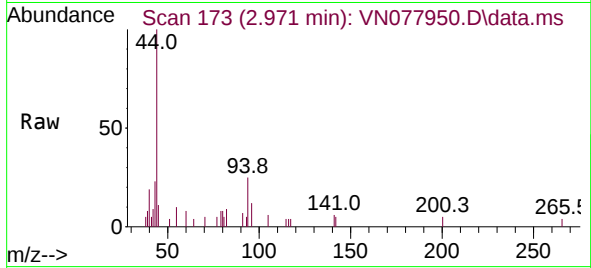




#5
Bromomethane
Concen: 0.517 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

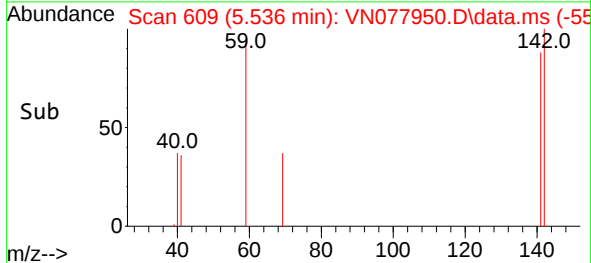
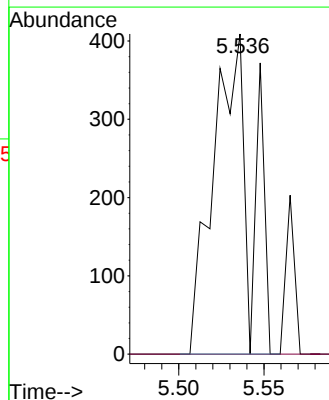
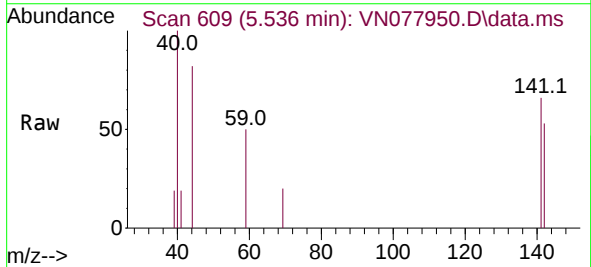
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

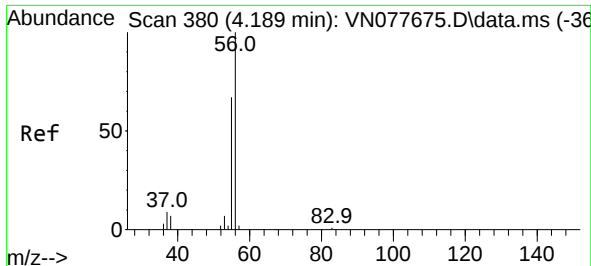
Tgt Ion: 94 Resp: 2105
Ion Ratio Lower Upper
94 100
96 47.4 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.794 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 59 Resp: 629
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 4.171 min Scan# 31

Delta R.T. -0.018 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

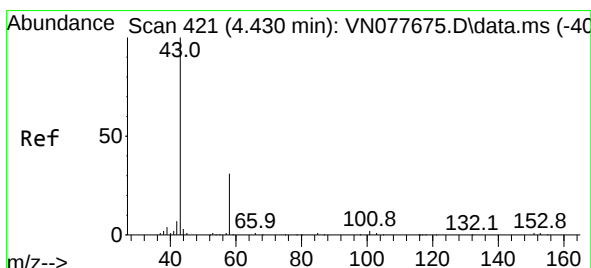
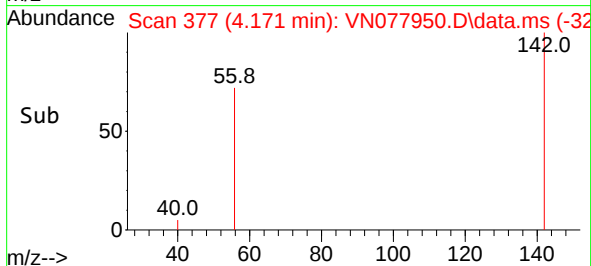
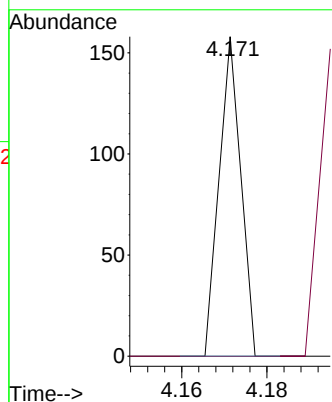
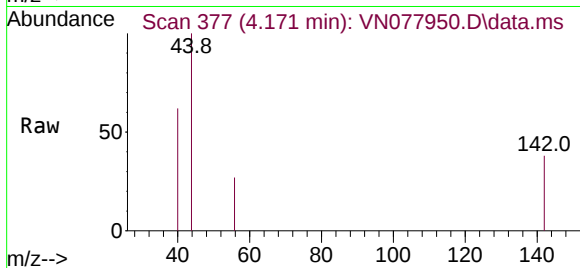
TP-10-0A

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#



#16

Acetone

Concen: 18.093 ug/l

RT: 4.448 min Scan# 424

Delta R.T. 0.018 min

Lab File: VN077950.D

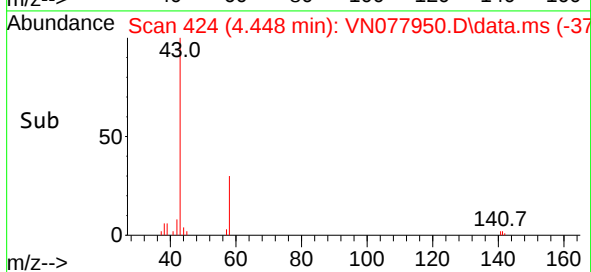
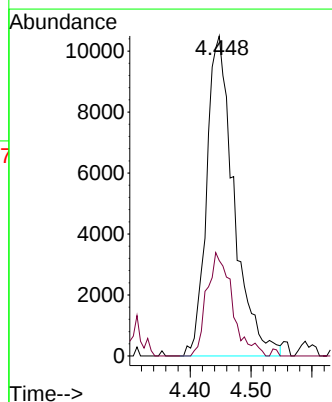
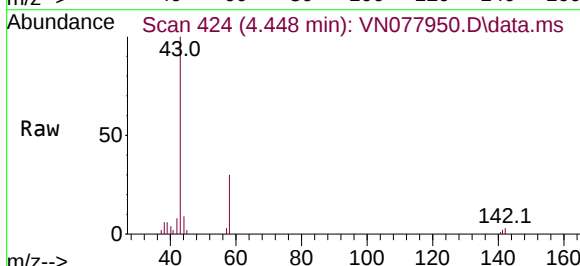
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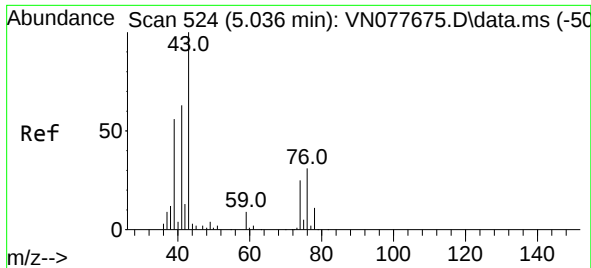
Tgt Ion: 43 Resp: 32672

Ion Ratio Lower Upper

43 100

58 29.8 28.0 42.0

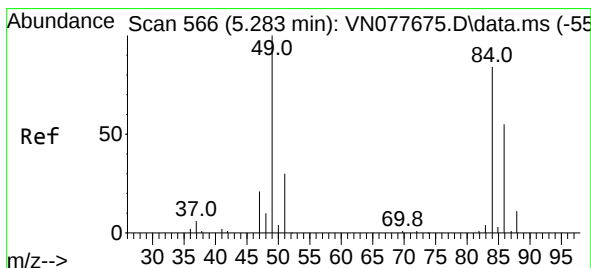
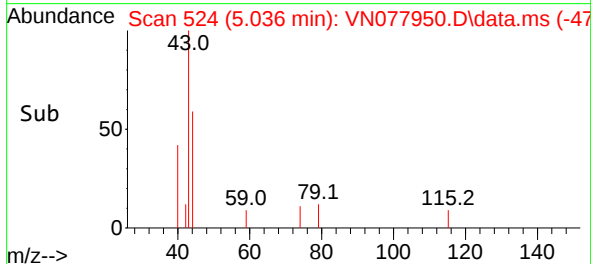
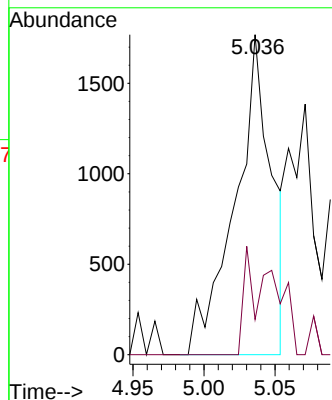
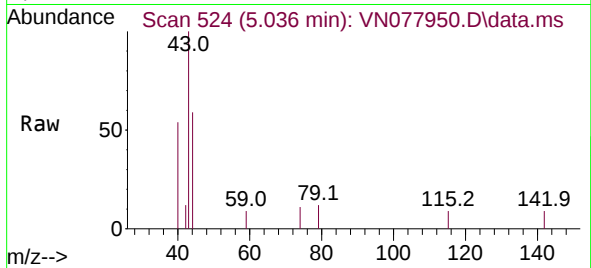




#18
Methyl Acetate
Concen: 0.416 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

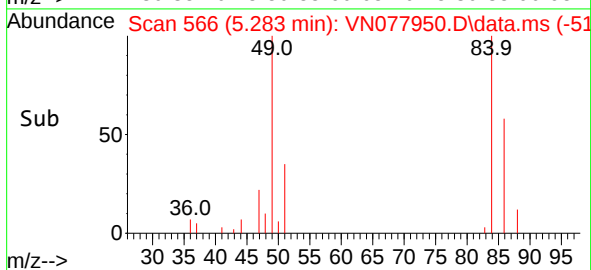
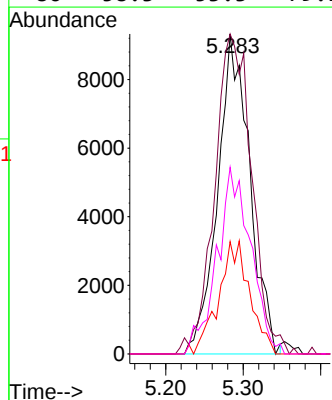
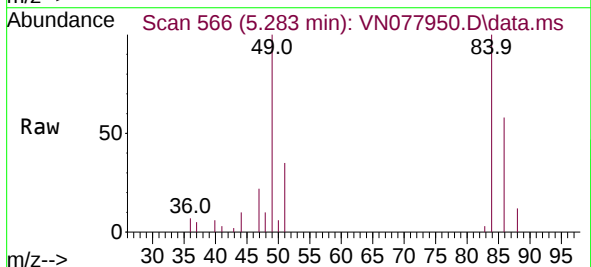
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

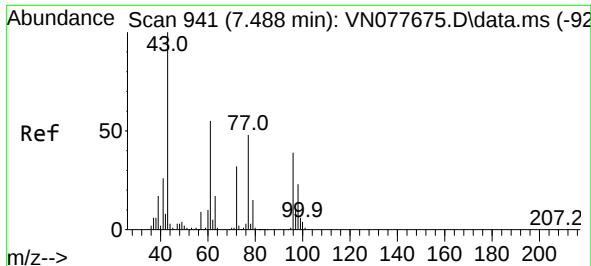
Tgt Ion: 43 Resp: 3151
Ion Ratio Lower Upper
43 100
74 26.7 26.2 39.4



#20
Methylene Chloride
Concen: 3.881 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 84 Resp: 26807
Ion Ratio Lower Upper
84 100
49 98.1 79.7 119.5
51 35.1 25.2 37.8
86 58.3 53.3 79.9

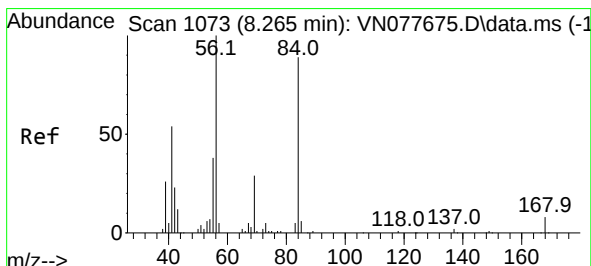
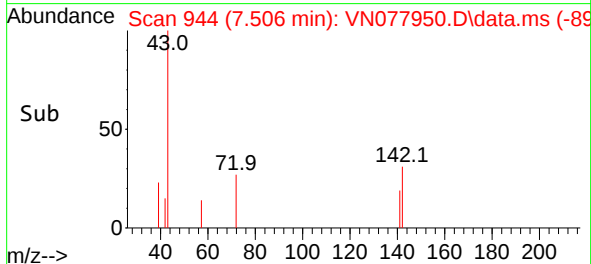
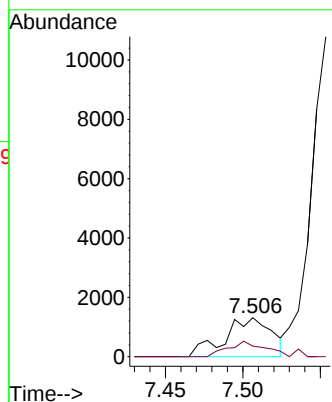
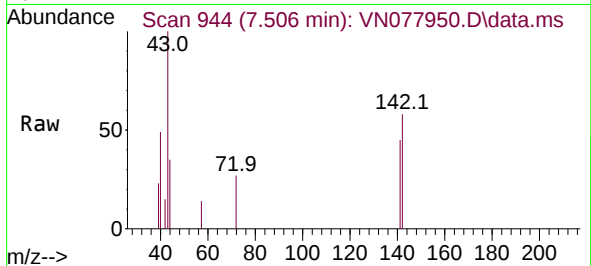




#25
2-Butanone
Concen: 0.980 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

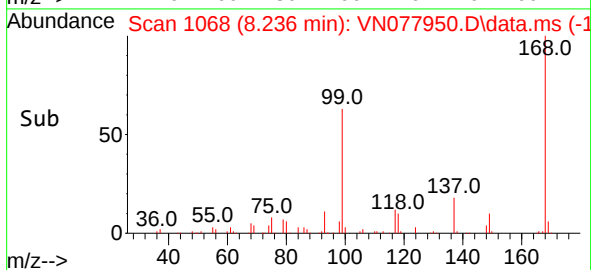
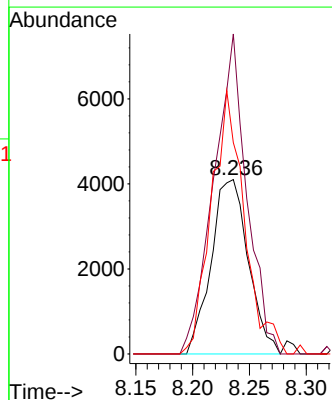
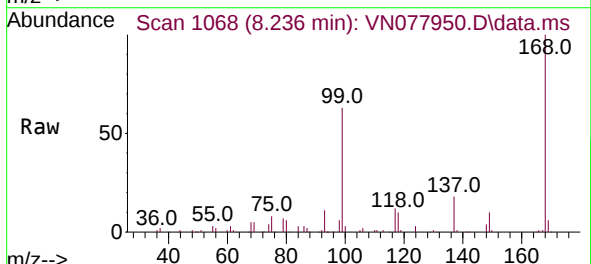
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MSVOA_N
ClientSampleId :
TP-10-0A

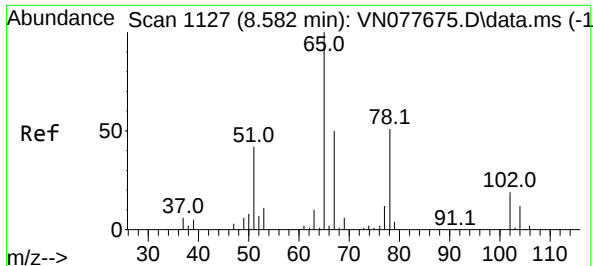
Tgt Ion: 43 Resp: 2769
Ion Ratio Lower Upper
43 100
72 27.2 30.2 45.2#



#31
Cyclohexane
Concen: 1.198 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 56 Resp: 9342
Ion Ratio Lower Upper
56 100
69 183.5 26.8 40.2#
84 121.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 44.783 ug/l

RT: 8.589 min Scan# 1127

Delta R.T. 0.007 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

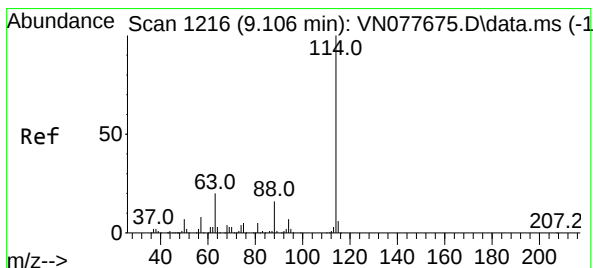
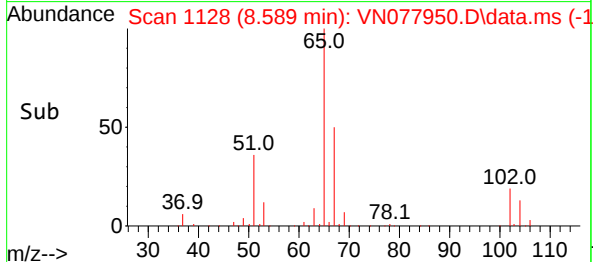
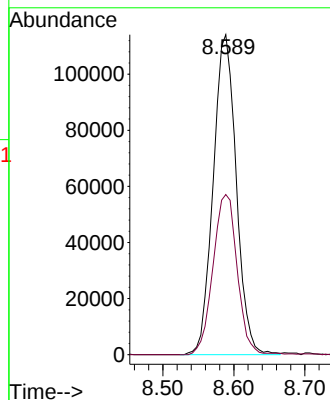
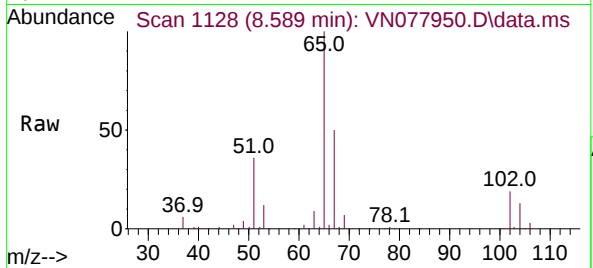
TP-10-0A

Tgt Ion: 65 Resp: 257039

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

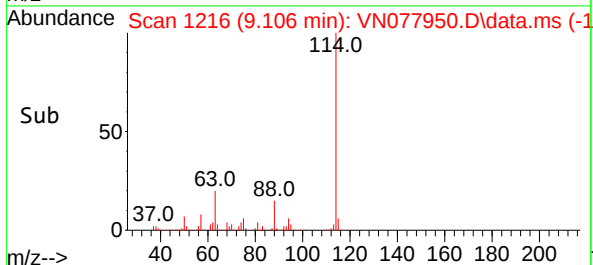
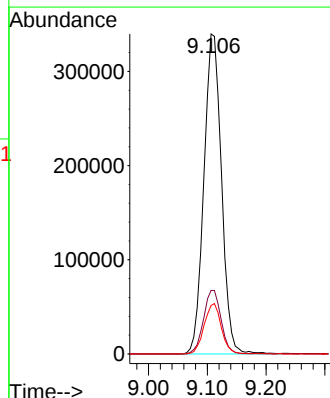
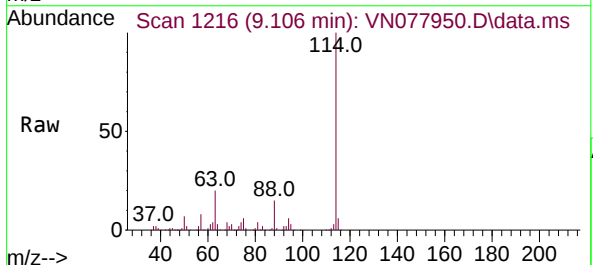
Tgt Ion: 114 Resp: 706097

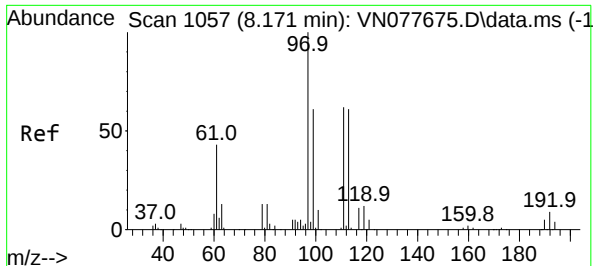
Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.698 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

TP-10-0A

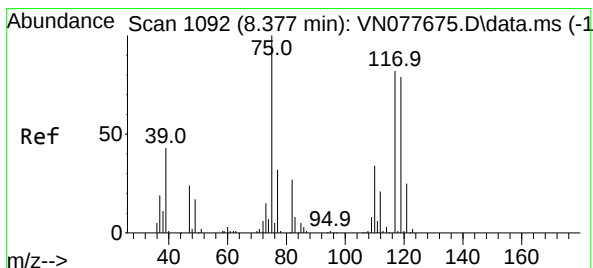
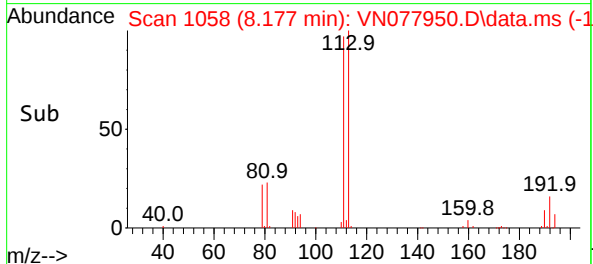
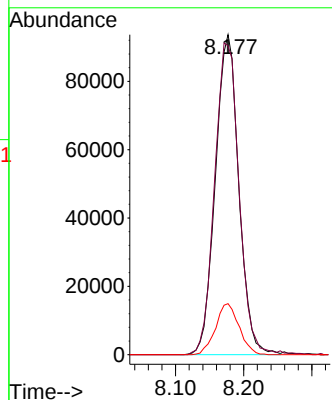
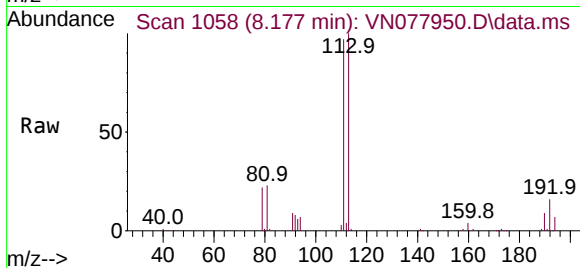
Tgt Ion:113 Resp: 224222

Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

192 16.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.792 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

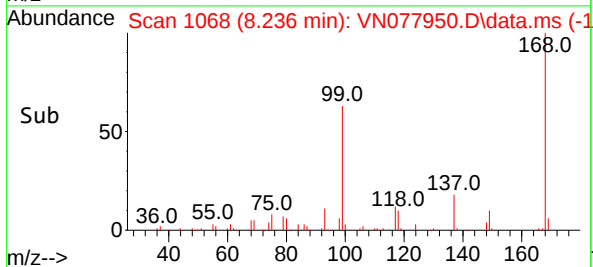
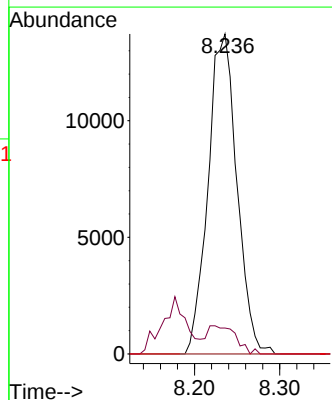
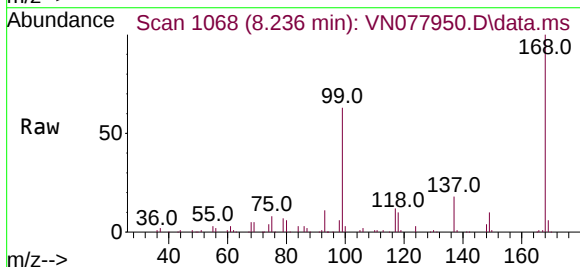
Tgt Ion: 75 Resp: 32270

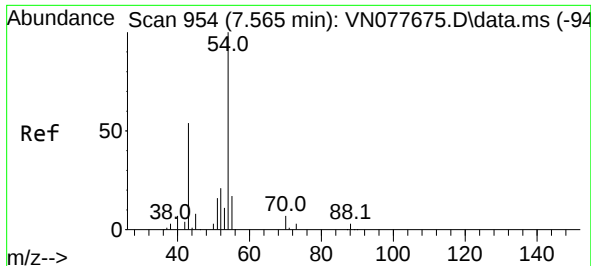
Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 10.033 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

TP-10-0A

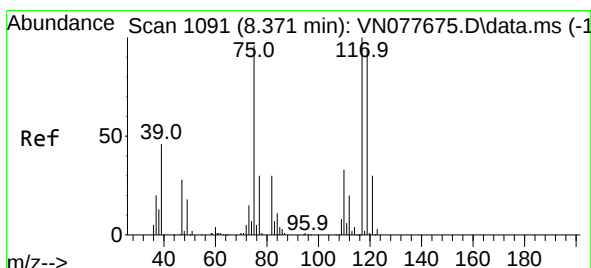
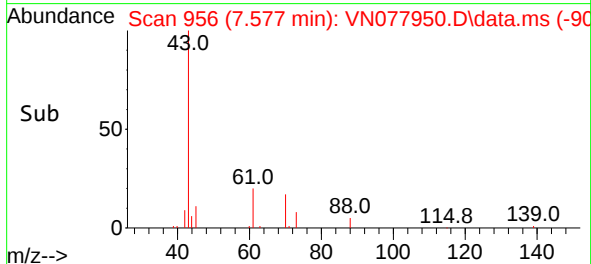
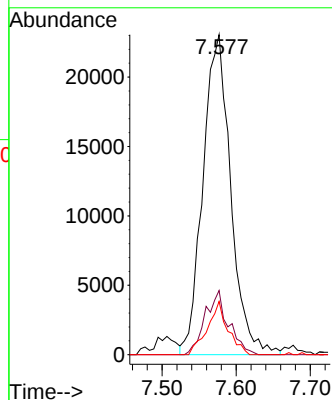
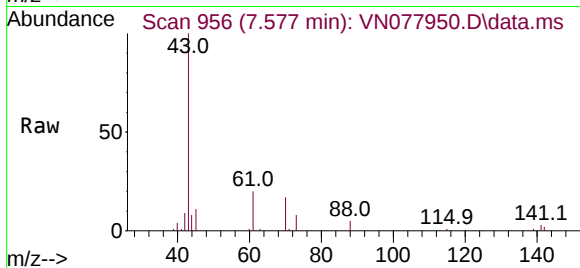
Tgt Ion: 43 Resp: 60226

Ion Ratio Lower Upper

43 100

61 16.8 13.2 19.8

70 12.2 11.3 16.9



#38

Carbon Tetrachloride

Concen: 6.284 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

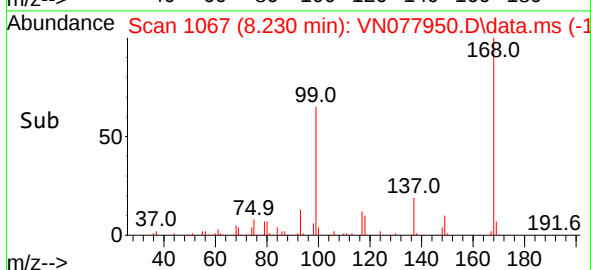
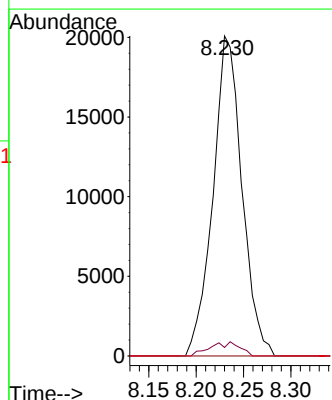
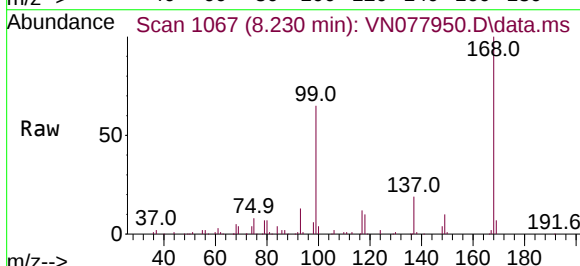
Tgt Ion: 117 Resp: 42736

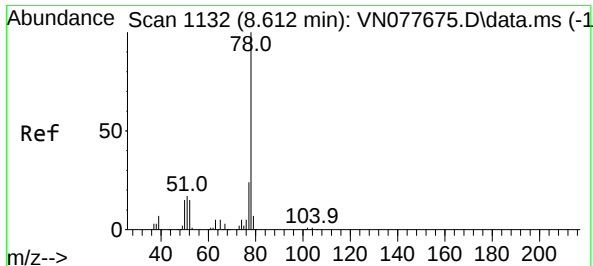
Ion Ratio Lower Upper

117 100

119 2.7 77.3 115.9#

121 0.0 23.3 34.9#





#40

Benzene

Concen: 0.338 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

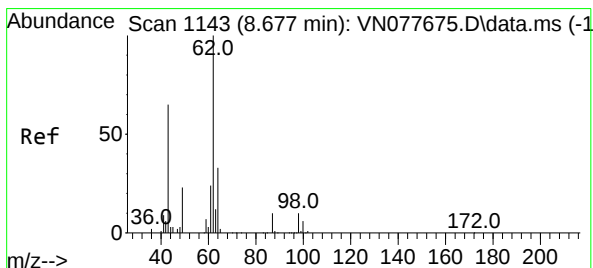
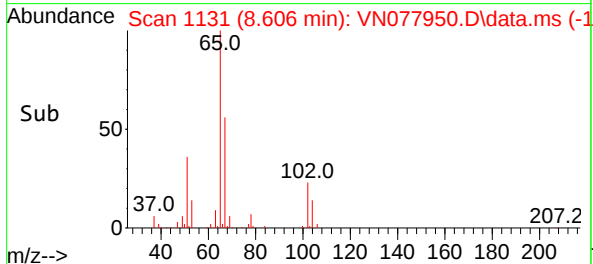
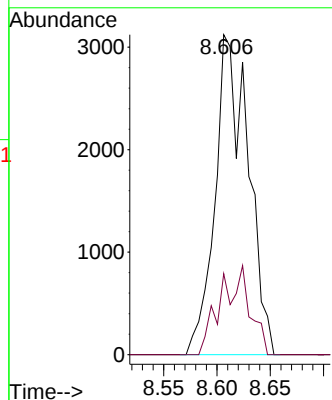
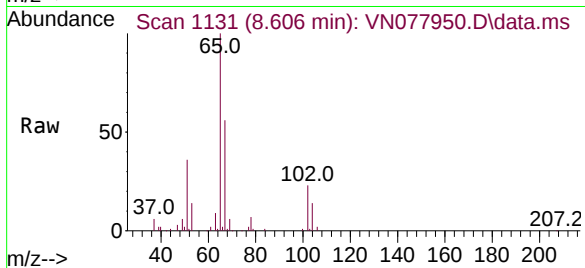
TP-10-0A

Tgt Ion: 78 Resp: 6713

Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.6



#42

1,2-Dichloroethane

Concen: 0.274 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.023 min

Lab File: VN077950.D

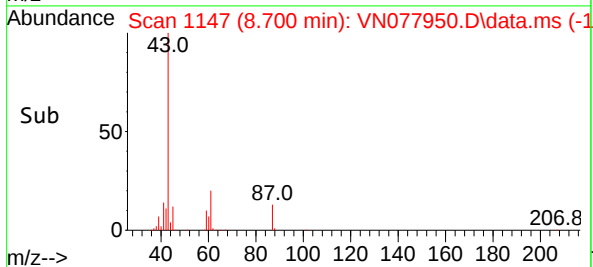
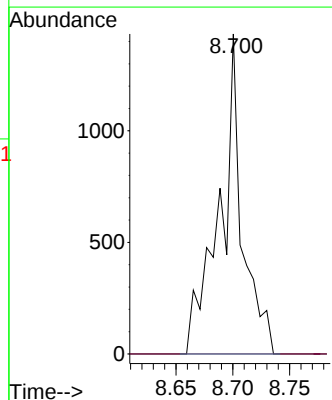
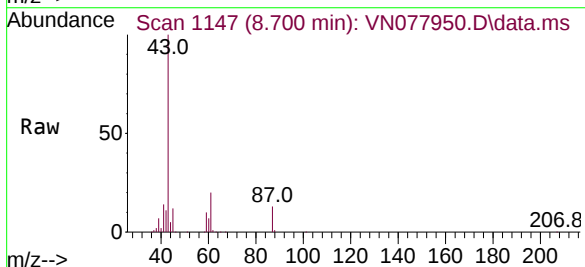
Acq: 27 May 2023 02:27

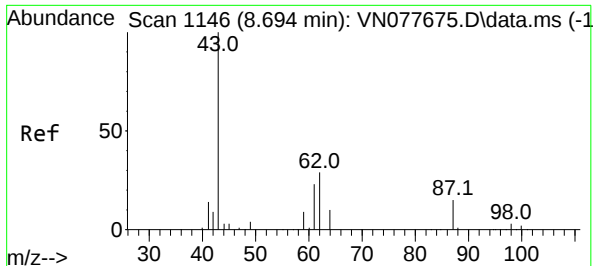
Tgt Ion: 62 Resp: 1976

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 31.269 ug/l

RT: 8.695 min Scan# 1146

Delta R.T. 0.001 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

TP-10-0A

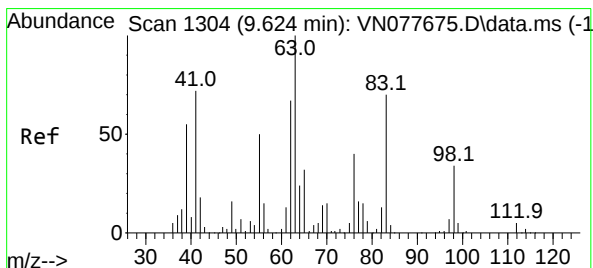
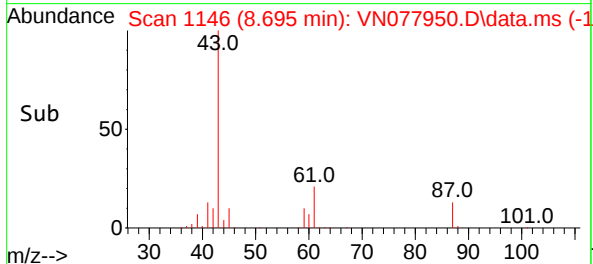
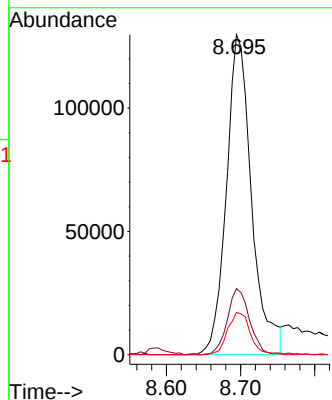
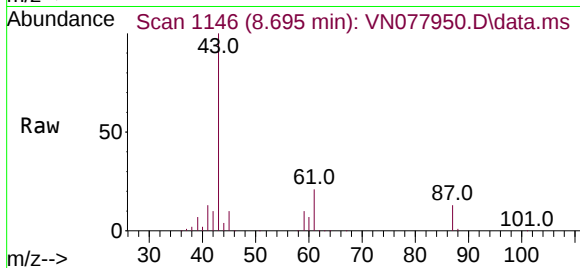
Tgt Ion: 43 Resp: 306582

Ion Ratio Lower Upper

43 100

61 18.3 24.7 37.1#

87 11.8 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.542 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN077950.D

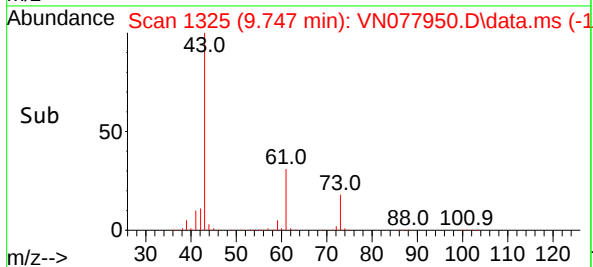
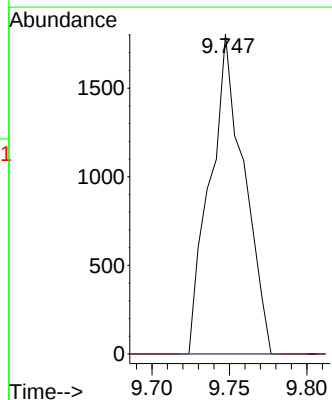
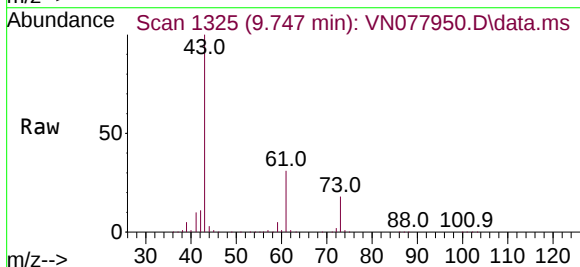
Acq: 27 May 2023 02:27

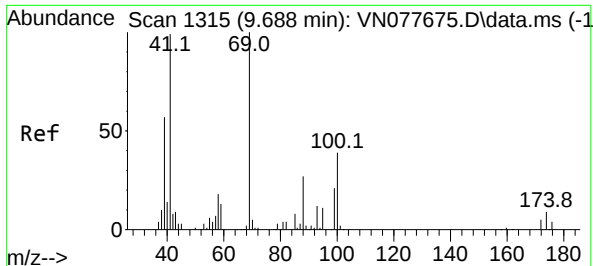
Tgt Ion: 63 Resp: 2748

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 46.556 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

TP-10-0A

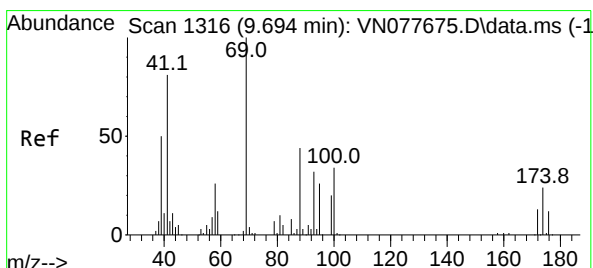
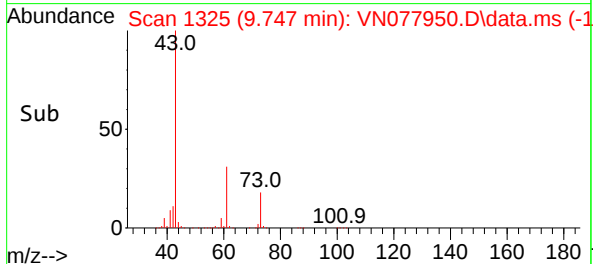
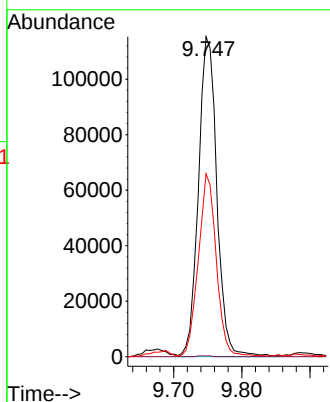
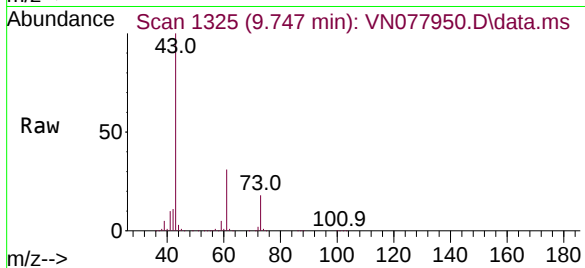
Tgt Ion: 41 Resp: 216418

Ion Ratio Lower Upper

41 100

69 0.2 90.4 135.6#

39 55.9 54.6 81.8



#49

1,4-Dioxane

Concen: 0.649 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.035 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

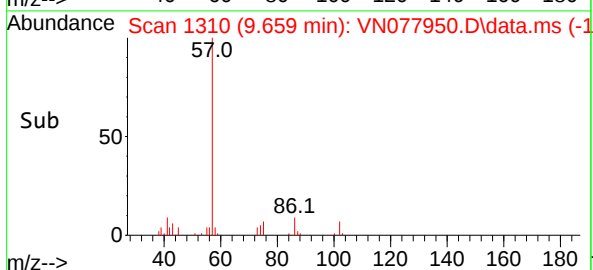
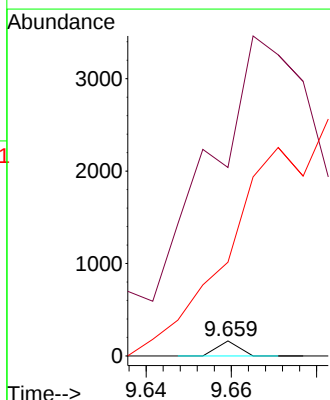
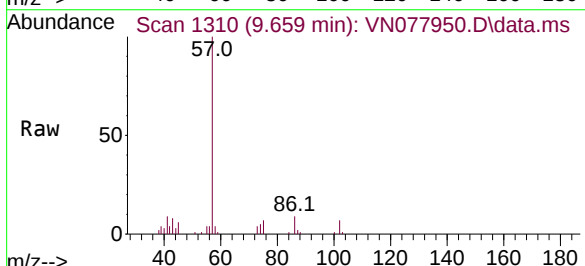
Tgt Ion: 88 Resp: 57

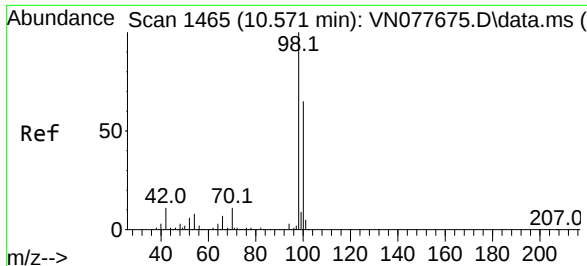
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#

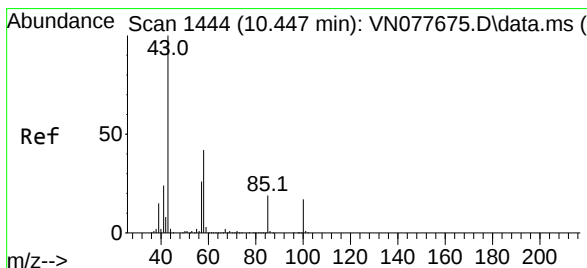
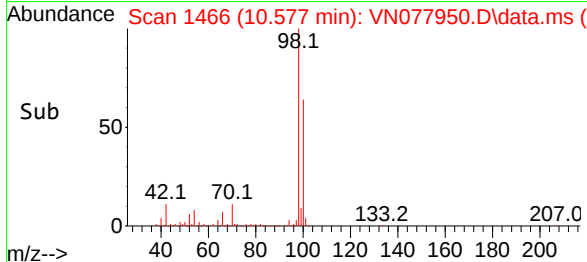
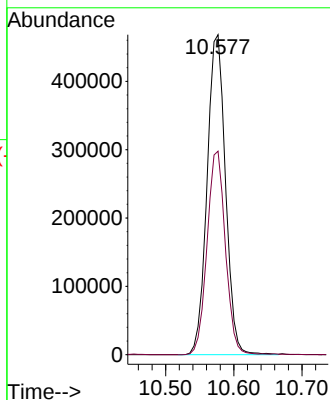
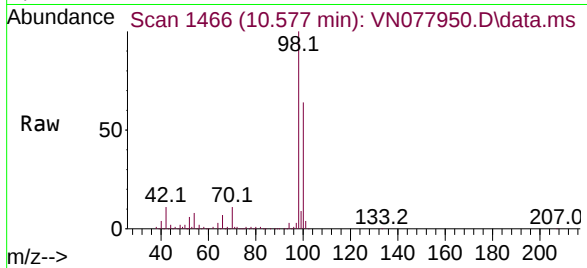




#50
Toluene-d8
Concen: 49.642 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

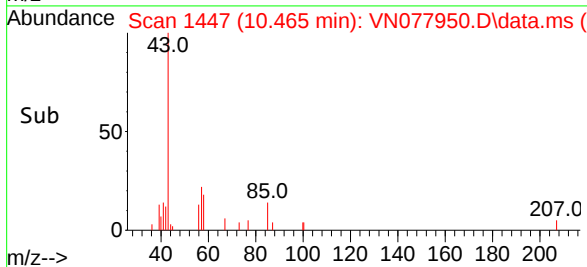
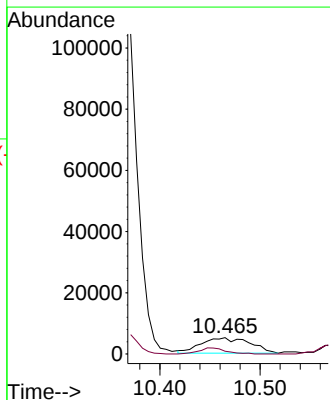
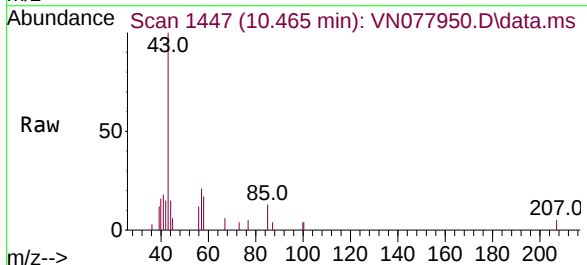
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

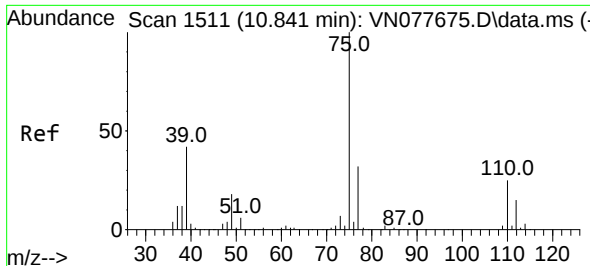
Tgt Ion: 98 Resp: 879785
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.920 ug/l
RT: 10.465 min Scan# 1447
Delta R.T. 0.018 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 43 Resp: 17016
Ion Ratio Lower Upper
43 100
58 21.4 36.6 54.8#

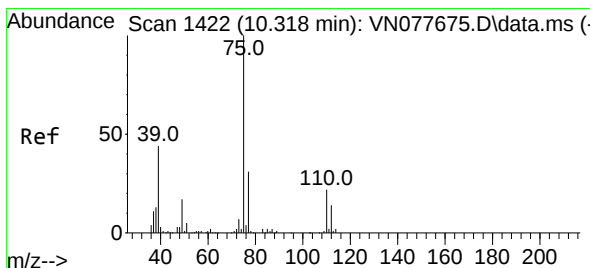
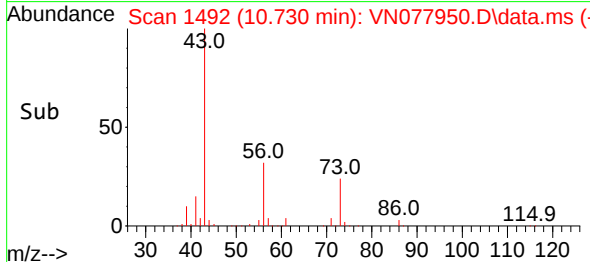
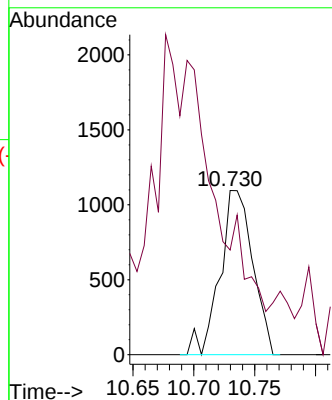
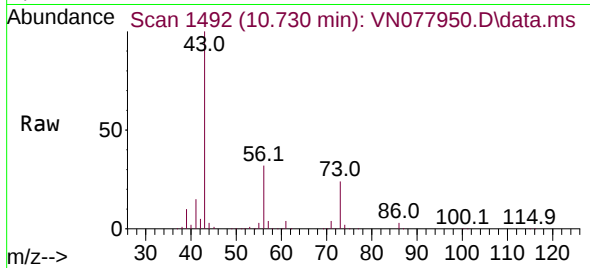




#53
 t-1,3-Dichloropropene
 Concen: 0.280 ug/l
 RT: 10.730 min Scan# 1492
 Delta R.T. -0.111 min
 Lab File: VN077950.D
 Acq: 27 May 2023 02:27

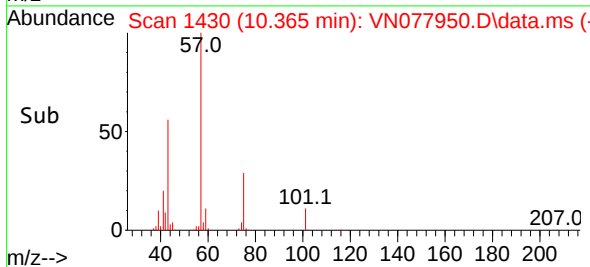
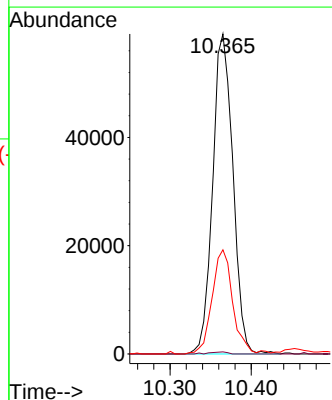
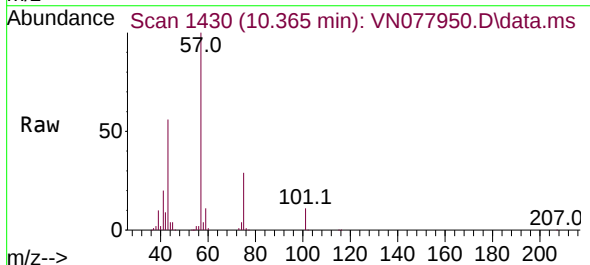
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-10-0A

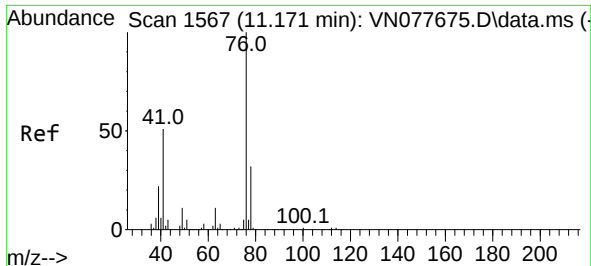
Tgt Ion: 75 Resp: 2057
 Ion Ratio Lower Upper
 75 100
 77 25.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.638 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN077950.D
 Acq: 27 May 2023 02:27

Tgt Ion: 75 Resp: 102421
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 32.5 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.545 ug/l

RT: 11.212 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN077950.D

Acq: 27 May 2023 02:27

Instrument :

MSVOA_N

ClientSampleId :

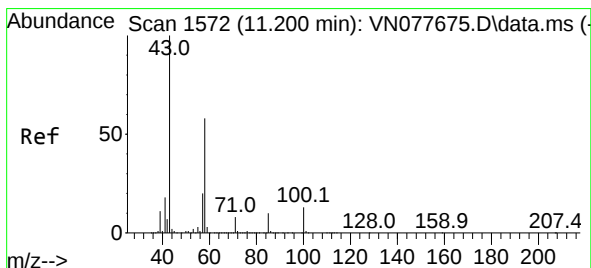
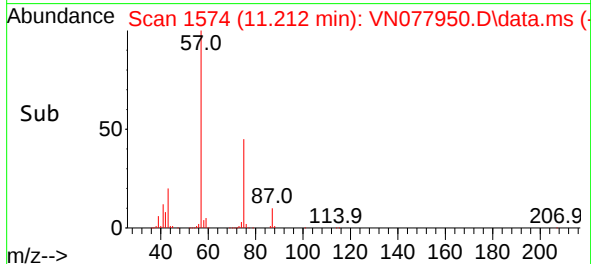
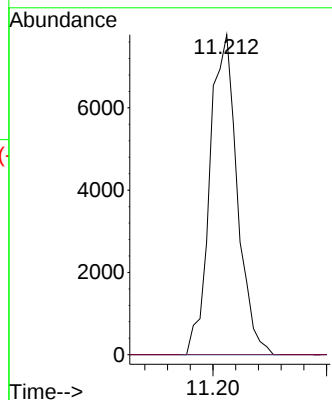
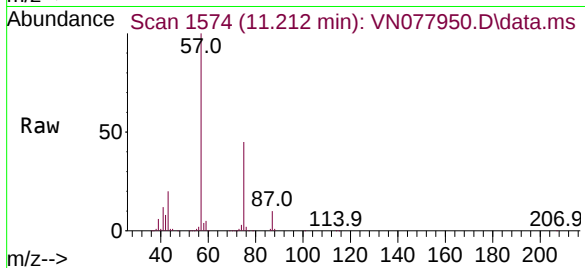
TP-10-0A

Tgt Ion: 76 Resp: 13012

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 49.885 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN077950.D

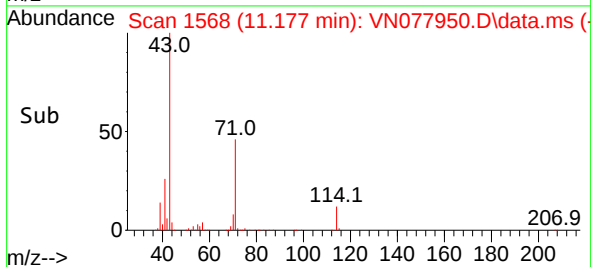
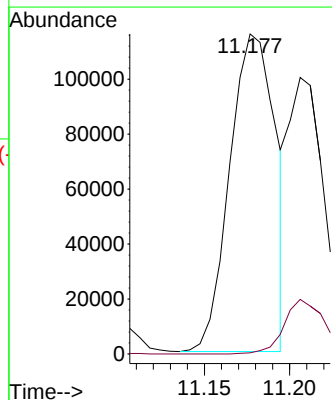
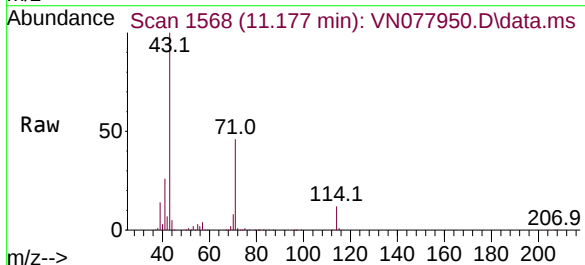
Acq: 27 May 2023 02:27

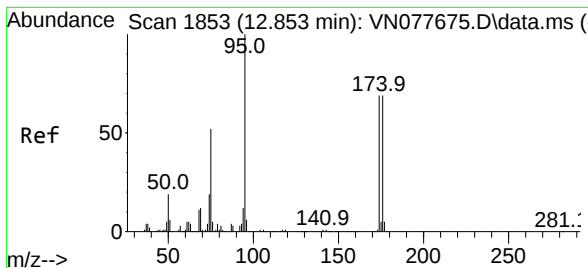
Tgt Ion: 43 Resp: 215040

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

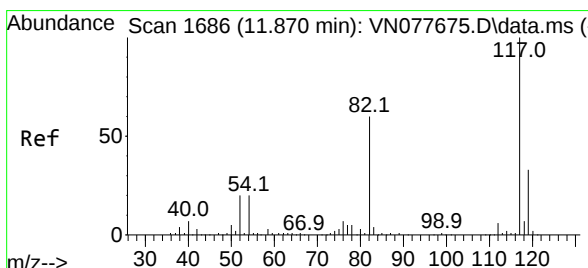
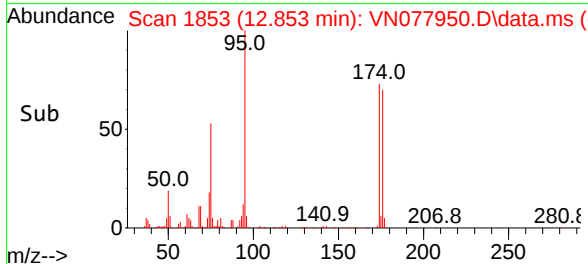
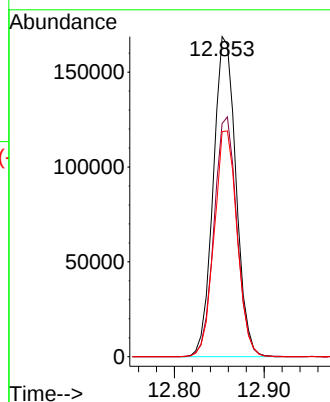
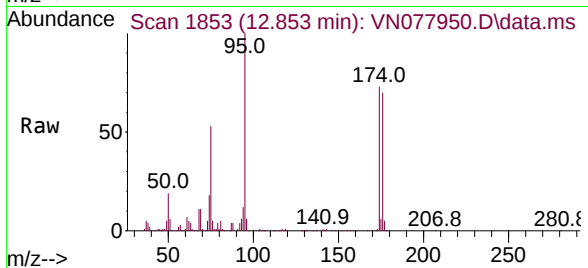




#62
4-Bromofluorobenzene
Concen: 47.346 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

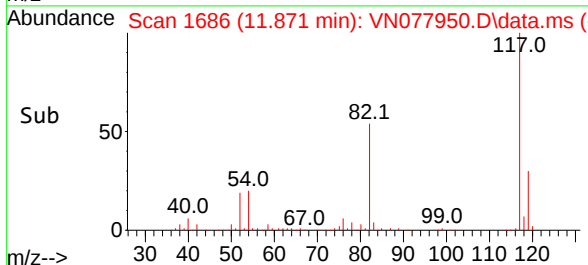
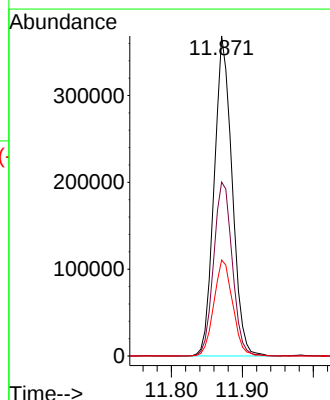
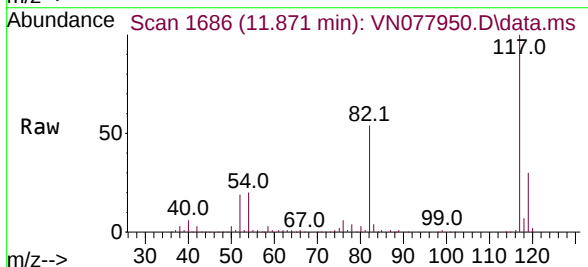
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

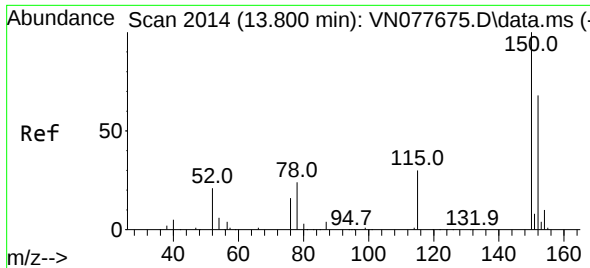
Tgt Ion: 95 Resp: 296352
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 71.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 117 Resp: 647456
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 30.0 25.6 38.4

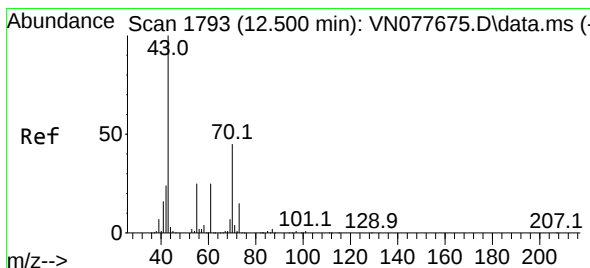
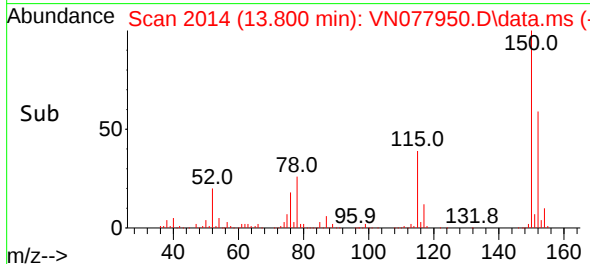
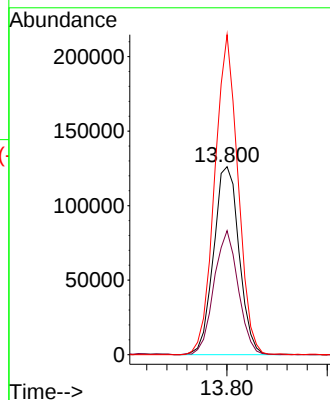
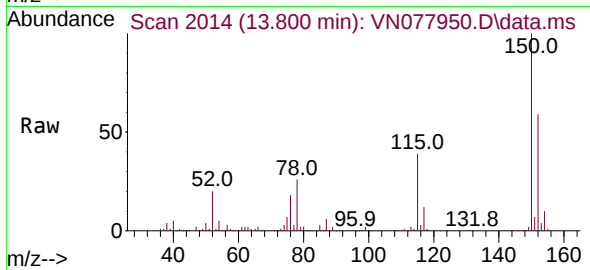




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

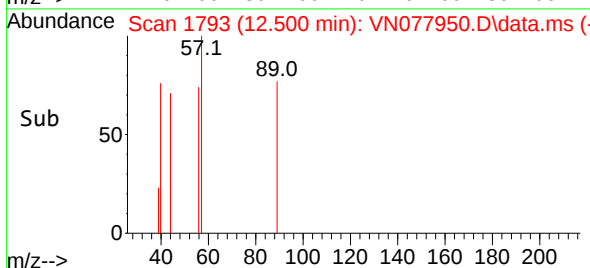
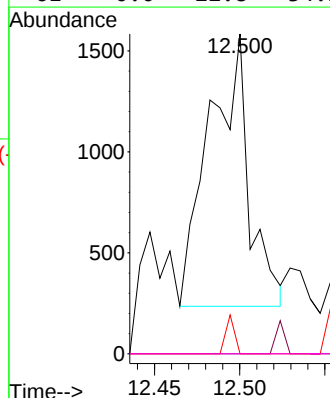
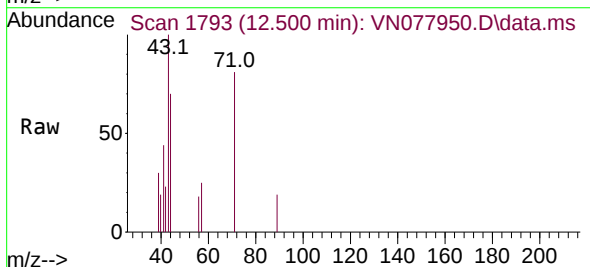
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

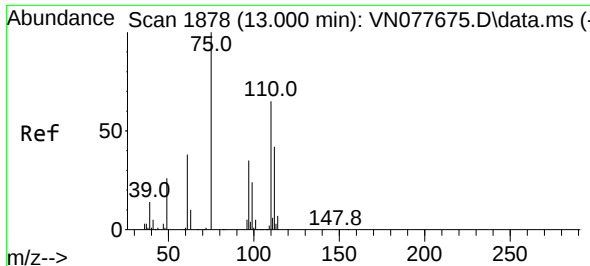
Tgt Ion:152 Resp: 222162
Ion Ratio Lower Upper
152 100
115 62.9 32.3 96.8
150 155.8 0.0 355.8



#74
N-ethyl acetate
Concen: 0.309 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Tgt Ion: 43 Resp: 2187
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 0.0 21.4 32.0#
61 0.0 22.8 34.2#

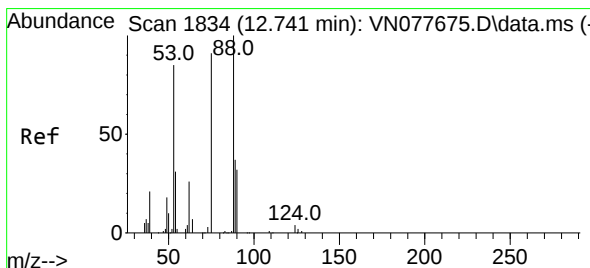
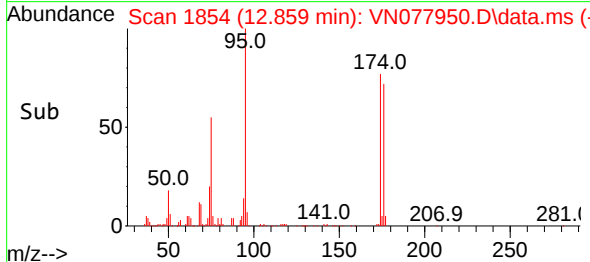
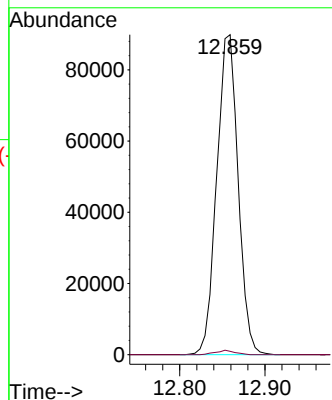
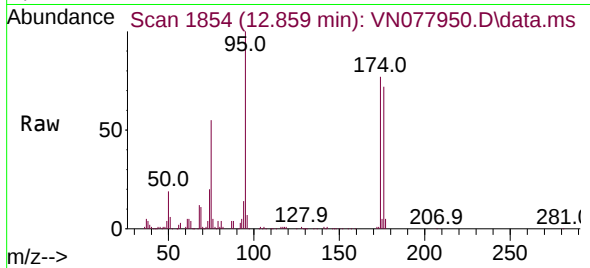




#76
1,2,3-Trichloropropane
Concen: 28.137 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

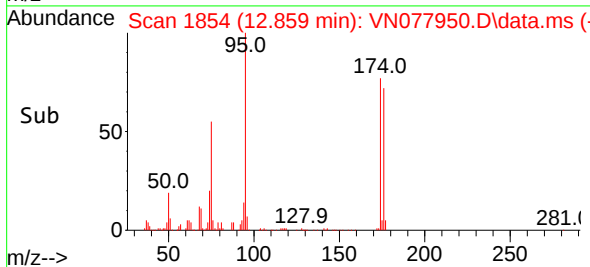
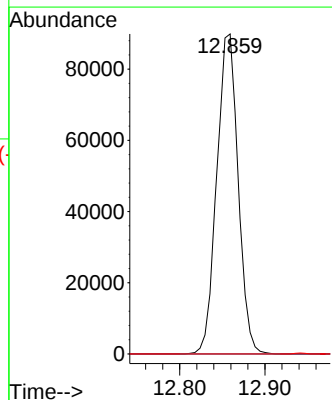
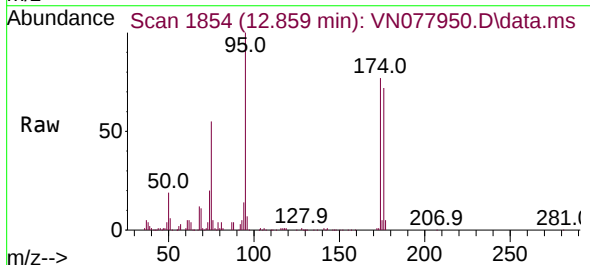
Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A

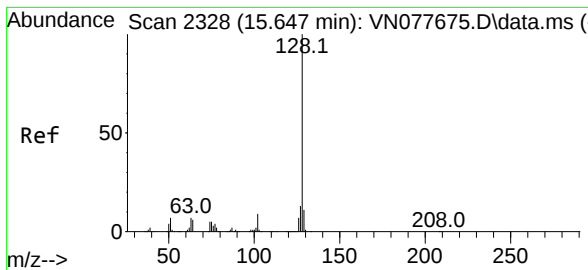
Tgt Ion: 75 Resp: 156544
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.939 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

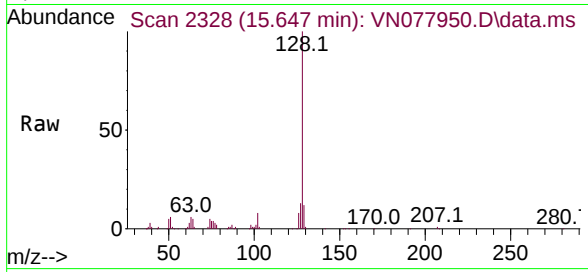
Tgt Ion: 75 Resp: 156544
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 13.110 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN077950.D
Acq: 27 May 2023 02:27

Instrument :
MSVOA_N
ClientSampleId :
TP-10-0A



Tgt Ion:	128	Resp:	199105
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.0	15.0
129	11.0	8.7	13.1

