

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092823\
 Data File : VN079369.D
 Acq On : 28 Sep 2023 13:16
 Operator : JC\MD
 Sample : 04613-05 500X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 29 04:34:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

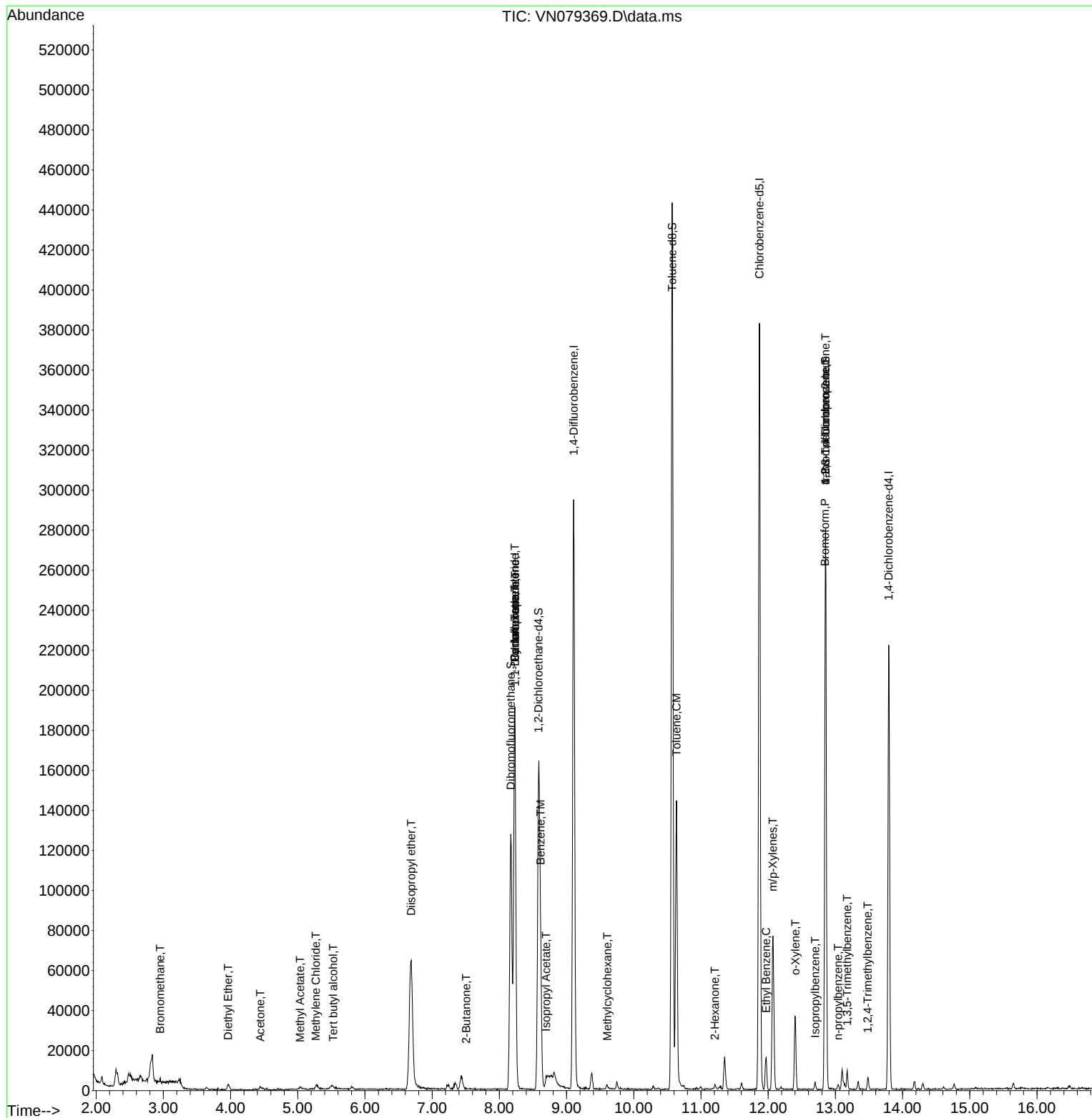
Internal Standards						
1) Pentafluorobenzene	8.230	168	133341	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	247049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	215792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	57391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	117848	65.472	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 130.940%#			
35) Dibromofluoromethane	8.171	113	92244	56.133	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.260%			
50) Toluene-d8	10.571	98	298078	49.399	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.800%			
62) 4-Bromofluorobenzene	12.853	95	92384	47.998	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.000%			
Target Compounds						Qvalue
5) Bromomethane	2.953	94	289	0.266	ug/l #	66
6) Chloroethane	3.130	64	298	Below Cal	#	43
8) Diethyl Ether	3.965	74	1317	1.373	ug/l #	31
11) Tert butyl alcohol	5.530	59	1843	5.546	ug/l #	72
16) Acetone	4.442	43	1639	2.144	ug/l	99
18) Methyl Acetate	5.036	43	1730	0.551	ug/l #	48
20) Methylene Chloride	5.271	84	652	0.350	ug/l #	91
22) Diisopropyl ether	6.689	45	2465	0.495	ug/l #	9
25) 2-Butanone	7.506	43	266	0.240	ug/l #	37
31) Cyclohexane	8.230	56	4496	1.711	ug/l #	55
36) 1,1-Dichloropropene	8.235	75	12296	4.854	ug/l #	48
38) Carbon Tetrachloride	8.230	117	14506	5.534	ug/l #	16
39) Methylcyclohexane	9.606	83	1066	0.427	ug/l #	73
40) Benzene	8.612	78	67984	8.768	ug/l	91
43) Isopropyl Acetate	8.694	43	3717	0.902	ug/l #	49
52) Toluene	10.635	92	58456	12.267	ug/l	94
58) 2-Chloroethyl Vinyl ether	10.165	63	100	Below Cal	#	42
59) 2-Hexanone	11.206	43	1016	0.586	ug/l #	26
67) Ethyl Benzene	11.971	91	11888	1.422	ug/l	95
68) m/p-Xylenes	12.070	106	24403	7.830	ug/l	95
69) o-Xylene	12.406	106	9616	3.217	ug/l	91
71) Bromoform	12.847	173	929	0.686	ug/l #	1
73) Isopropylbenzene	12.700	105	2582	0.494	ug/l	85
76) 1,2,3-Trichloropropane	12.853	75	53256	34.431	ug/l #	1
78) n-propylbenzene	13.041	91	2406	0.410	ug/l	97
80) 1,3,5-Trimethylbenzene	13.176	105	4618	1.061	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.853	75	53256	94.657	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.482	105	3748	0.905	ug/l	97

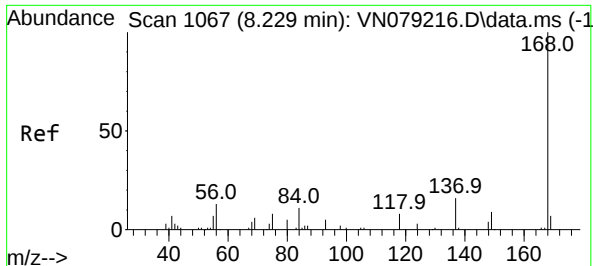
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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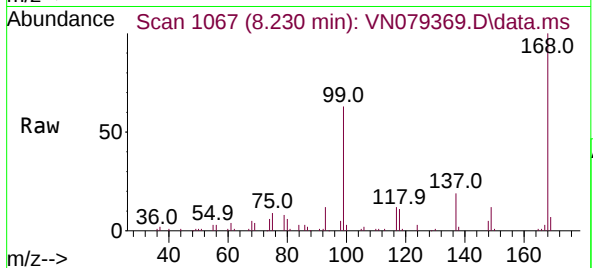
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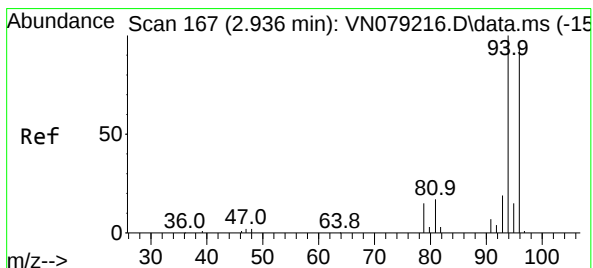
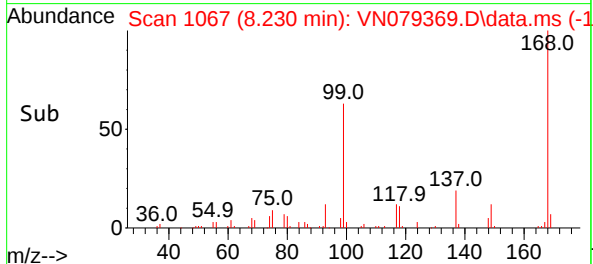
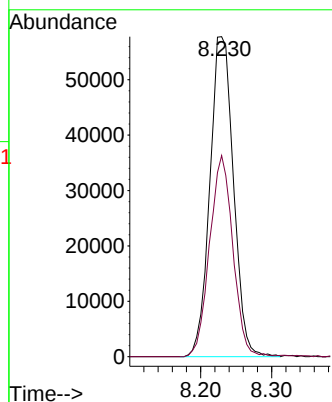


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Instrument :
MSVOA_N
ClientSampleId :

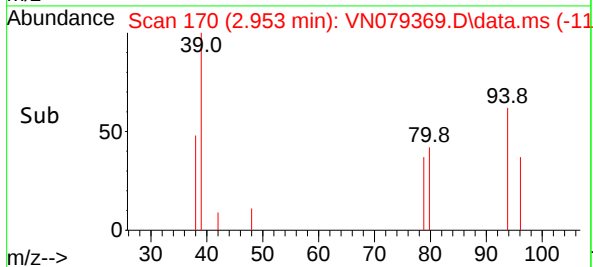
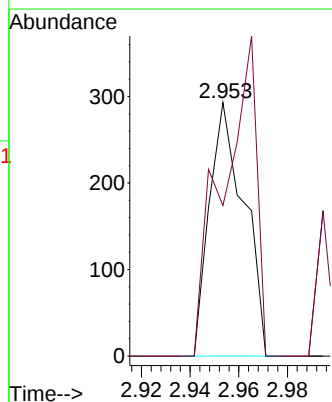
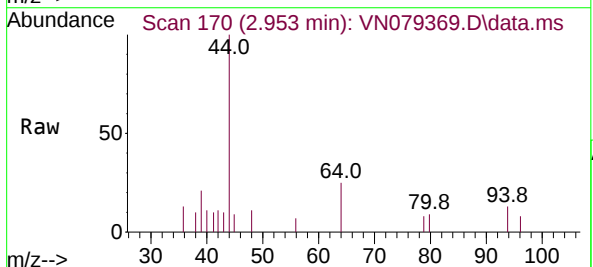


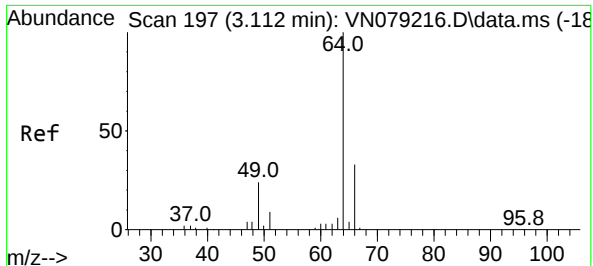
Tgt Ion:168 Resp: 133341
Ion Ratio Lower Upper
168 100
99 62.9 53.0 79.6



#5
Bromomethane
Concen: 0.266 ug/l
RT: 2.953 min Scan# 170
Delta R.T. 0.005 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 94 Resp: 289
Ion Ratio Lower Upper
94 100
96 59.4 73.1 109.7#

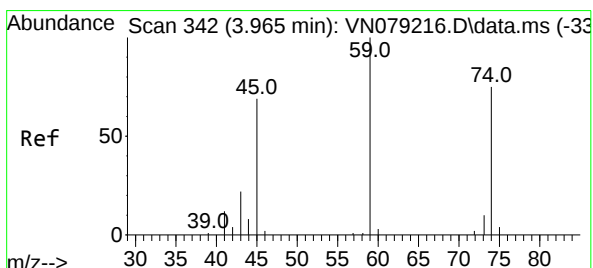
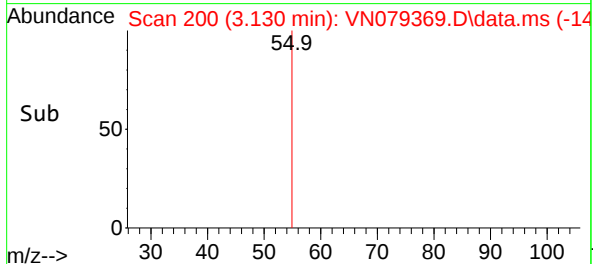
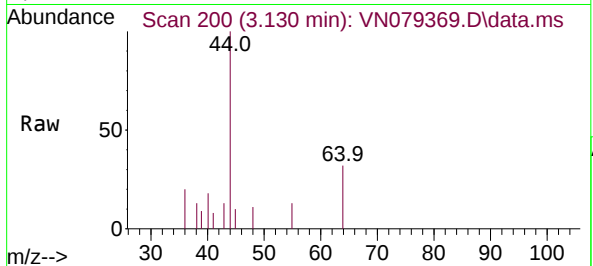




#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

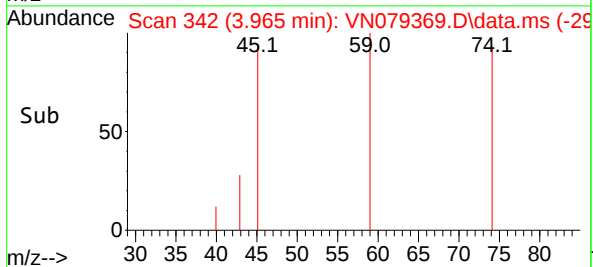
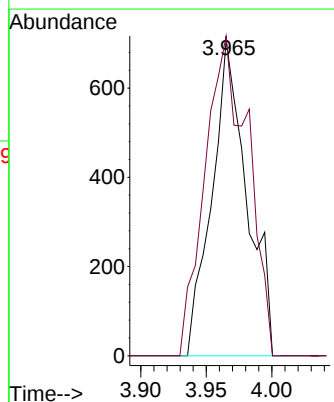
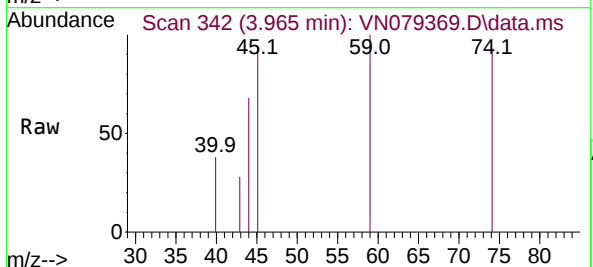
Instrument :
MSVOA_N
ClientSampleId :

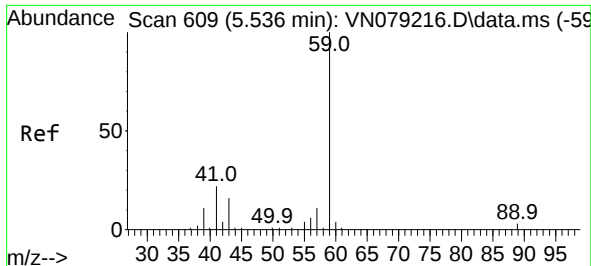
Tgt Ion: 64 Resp: 298
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#8
Diethyl Ether
Concen: 1.373 ug/l
RT: 3.965 min Scan# 342
Delta R.T. -0.006 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 74 Resp: 1317
Ion Ratio Lower Upper
74 100
45 124.8 34.4 103.3#

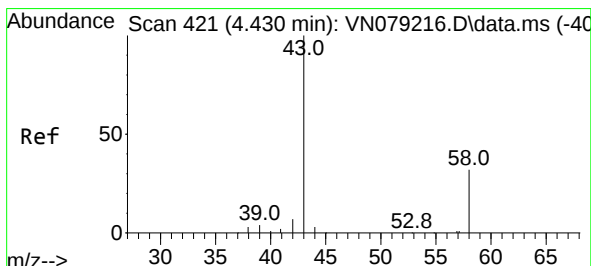
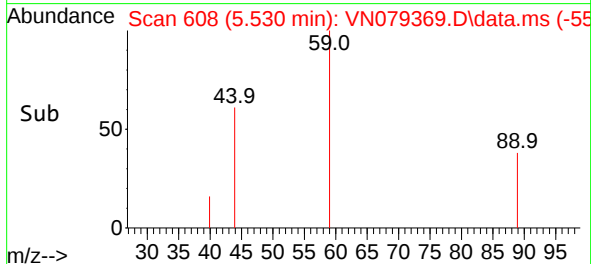
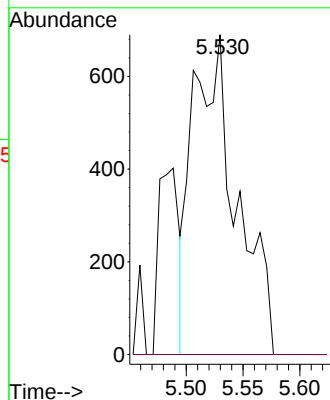
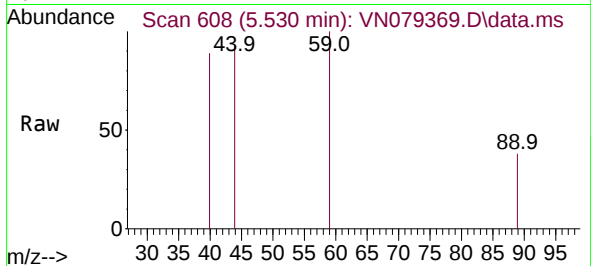




#11
Tert butyl alcohol
Concen: 5.546 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

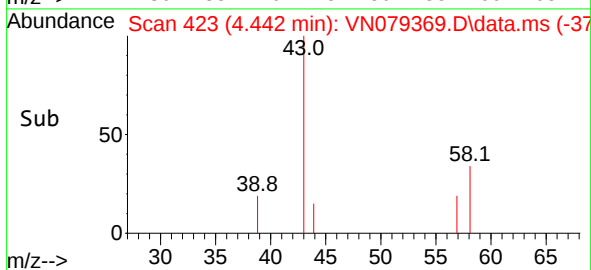
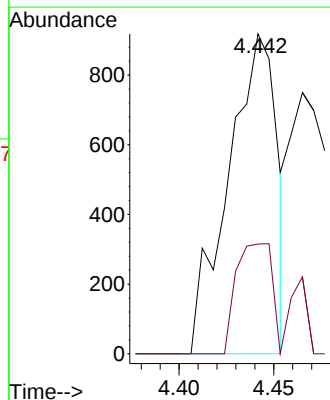
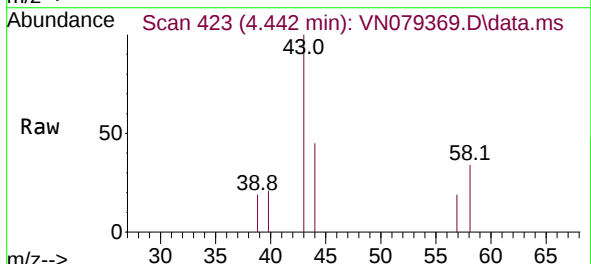
Instrument :
MSVOA_N
ClientSampleId :

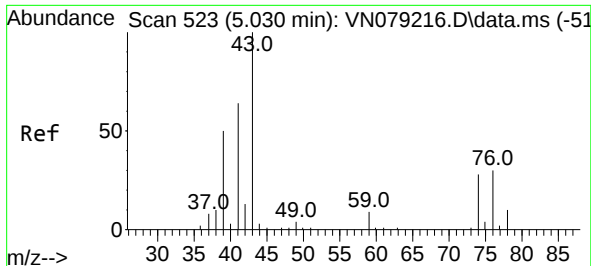
Tgt Ion: 59 Resp: 1843
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 2.144 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
58 34.3 28.0 42.0

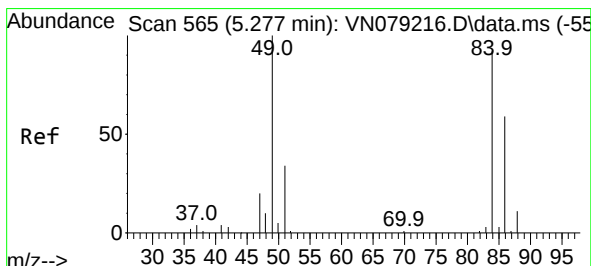
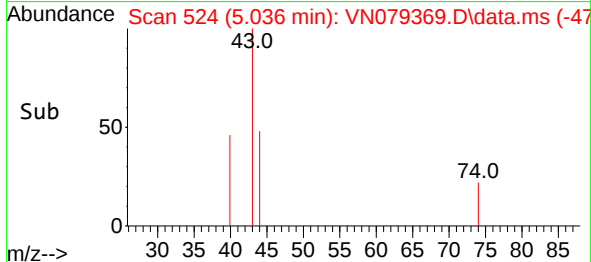
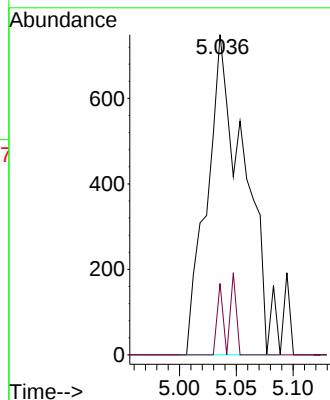
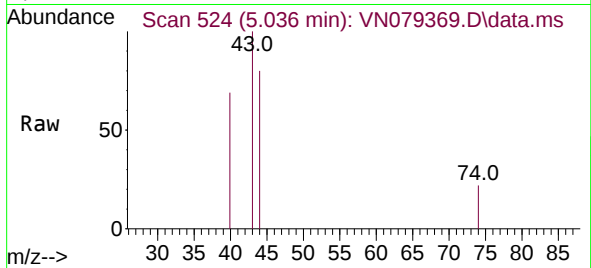




#18
Methyl Acetate
Concen: 0.551 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

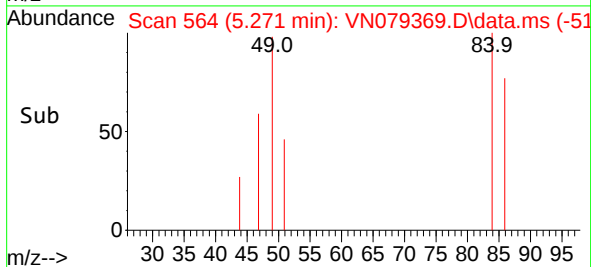
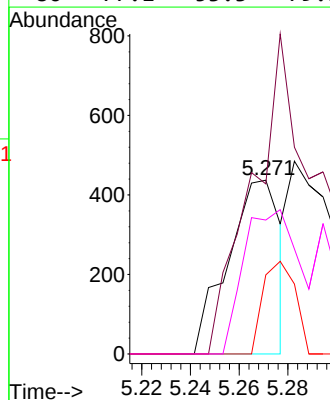
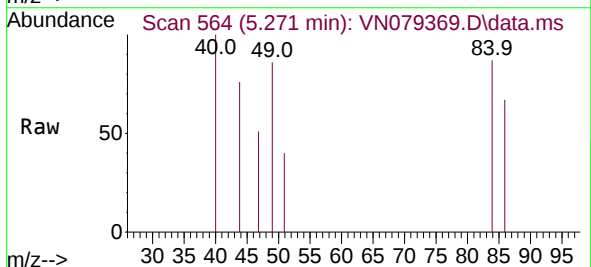
Instrument :
MSVOA_N
ClientSampleId :

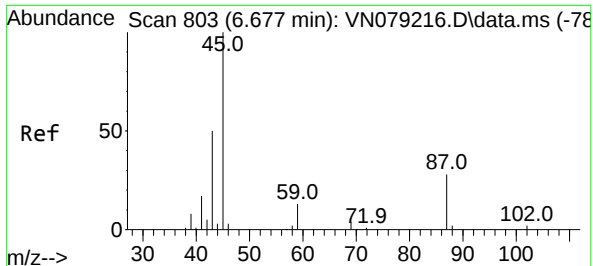
Tgt Ion: 43 Resp: 1730
Ion Ratio Lower Upper
43 100
74 3.4 26.2 39.4#



#20
Methylene Chloride
Concen: 0.350 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

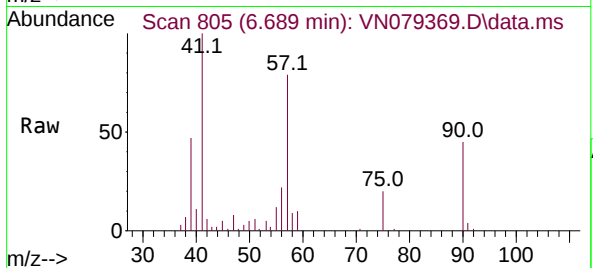
Tgt Ion: 84 Resp: 652
Ion Ratio Lower Upper
84 100
49 97.9 79.7 119.5
51 45.5 25.2 37.8#
86 77.1 53.3 79.9



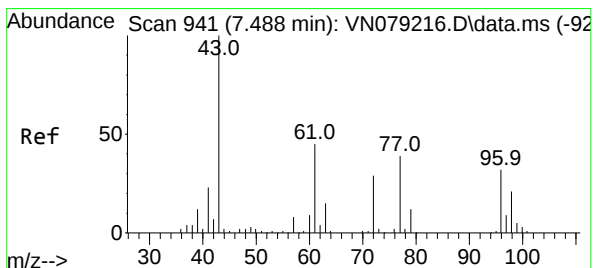
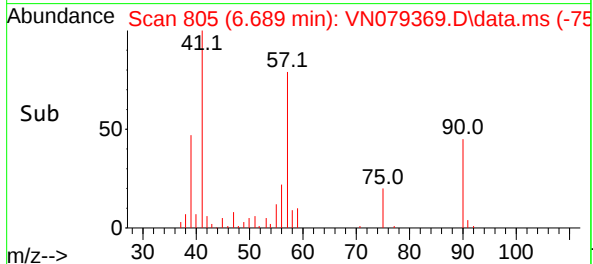
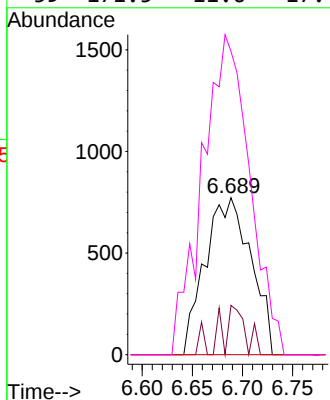


#22
Diisopropyl ether
Concen: 0.495 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Instrument :
MSVOA_N
ClientSampleId :

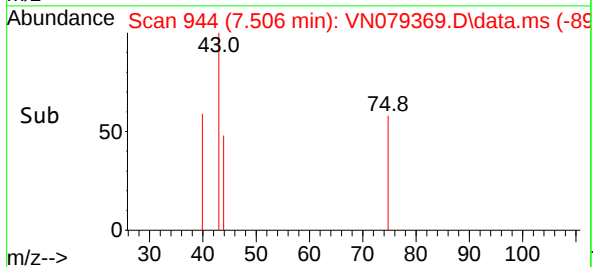
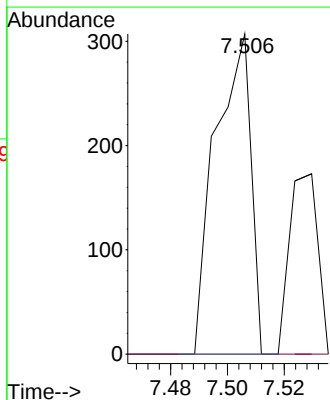
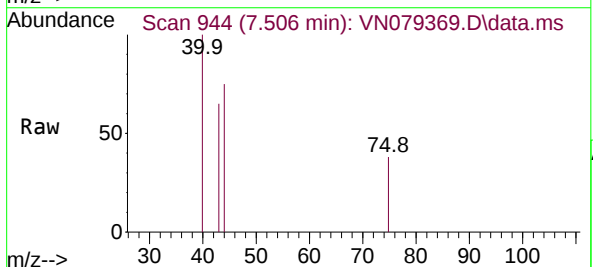


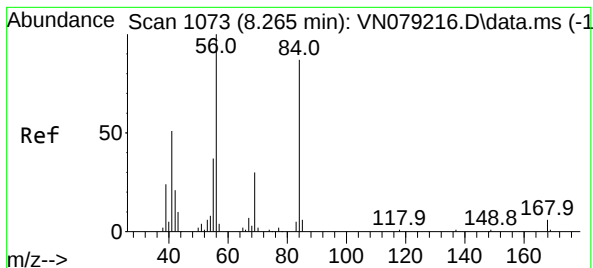
Tgt Ion	Ratio	Lower	Upper
45	100		
43	31.4	45.5	68.3#
87	0.0	31.8	47.8#
59	171.5	11.6	17.4#



#25
2-Butanone
Concen: 0.240 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#





#31

Cyclohexane

Concen: 1.711 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.035 min

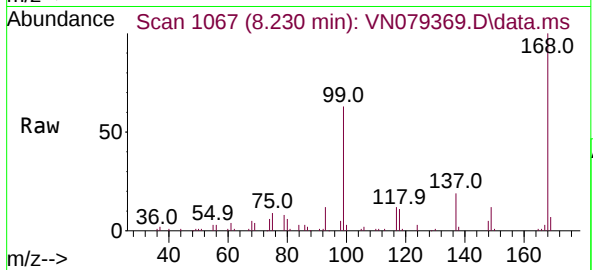
Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

ClientSampleId :



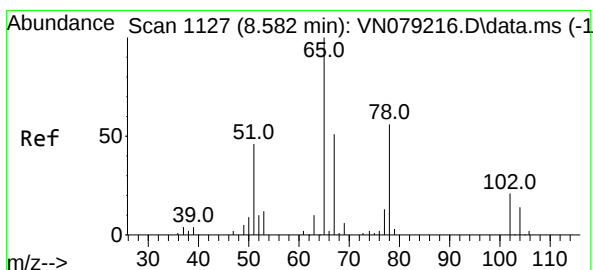
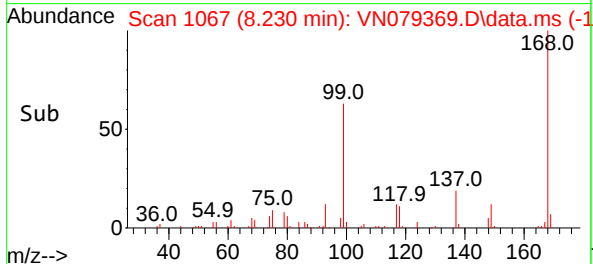
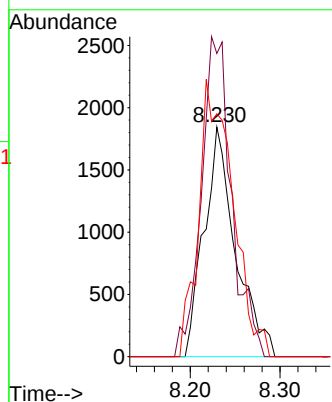
Tgt Ion: 56 Resp: 4496

Ion Ratio Lower Upper

56 100

69 132.0 26.8 40.2#

84 105.8 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 65.472 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079369.D

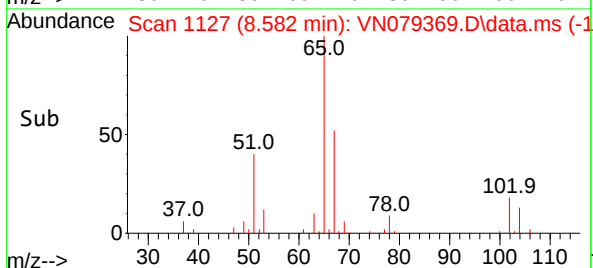
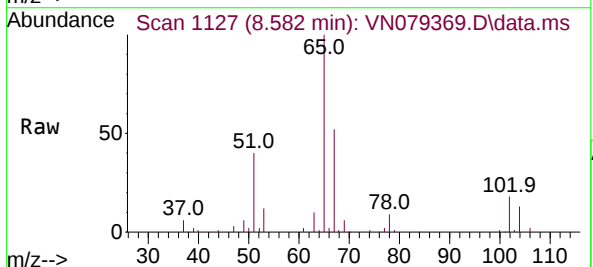
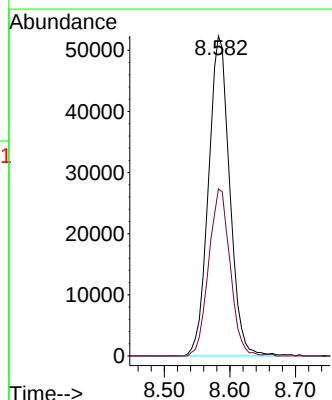
Acq: 28 Sep 2023 13:16

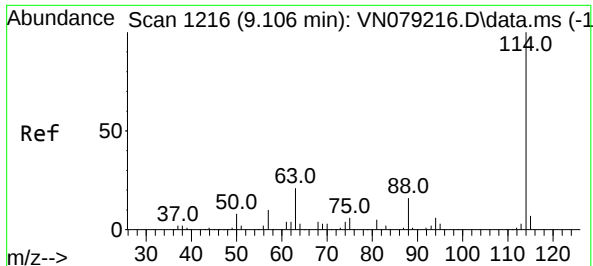
Tgt Ion: 65 Resp: 117848

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# 1

Delta R.T. -0.006 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

ClientSampleId :

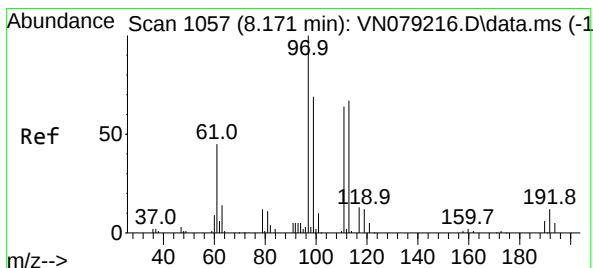
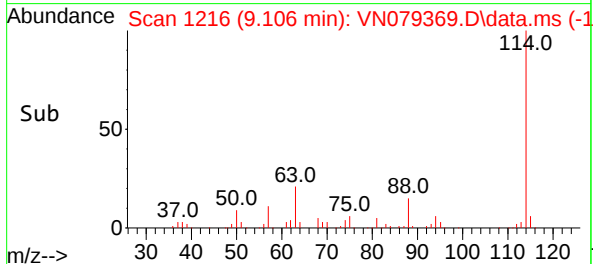
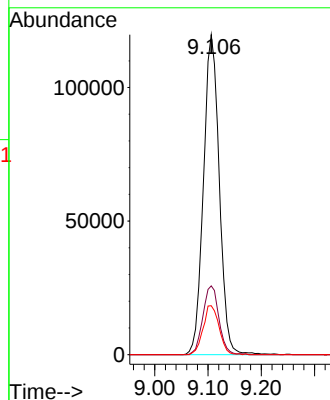
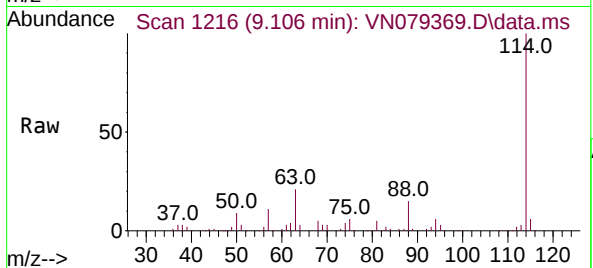
Tgt Ion:114 Resp: 247049

Ion Ratio Lower Upper

114 100

63 21.5 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 56.133 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

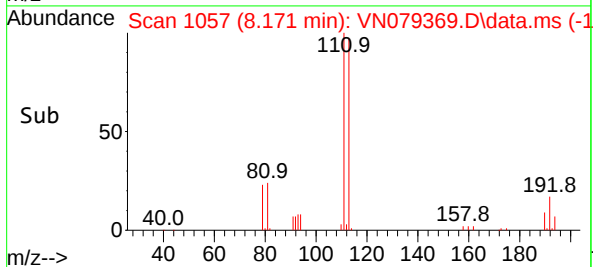
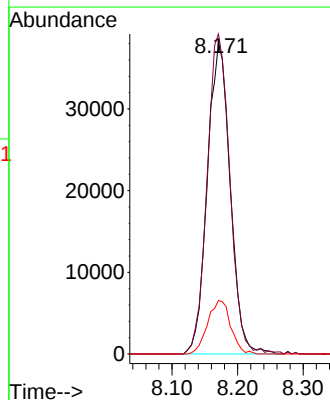
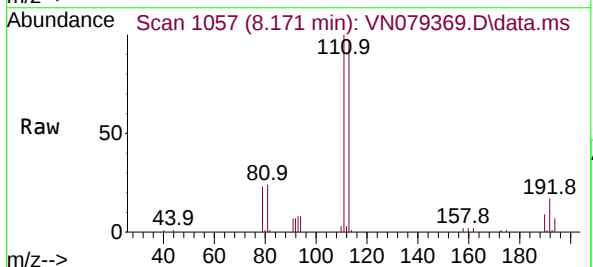
Tgt Ion:113 Resp: 92244

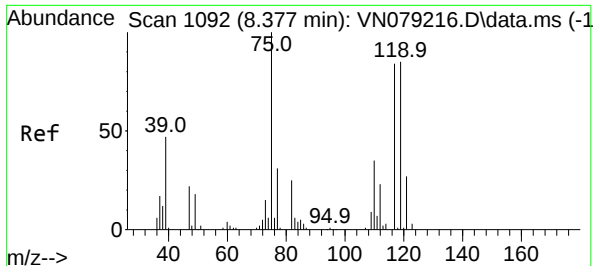
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.854 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN079369.D

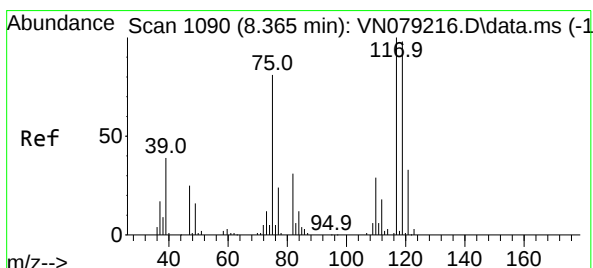
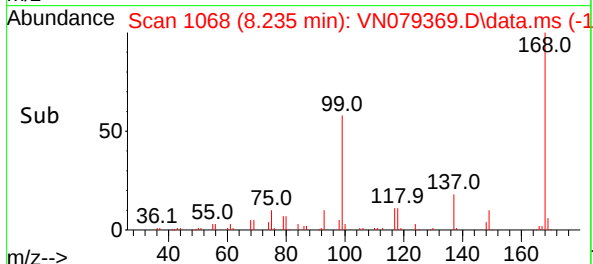
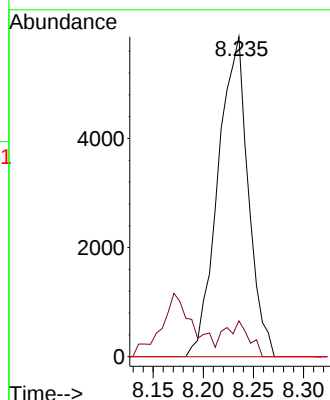
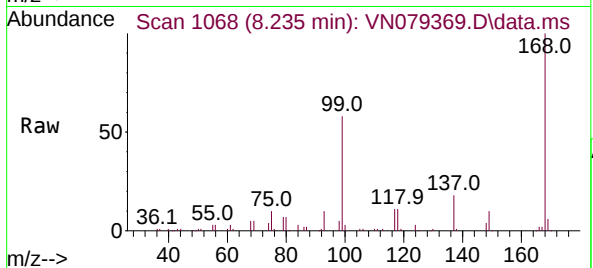
Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 75	Resp: 12296
Ion Ratio	Lower Upper
75	100
110	8.9 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.534 ug/l

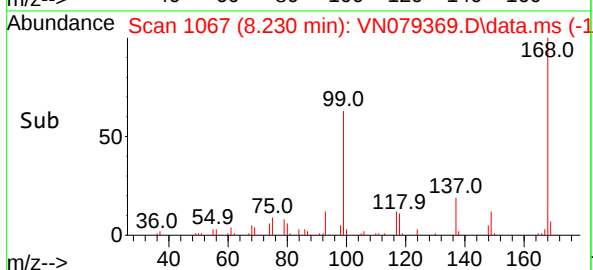
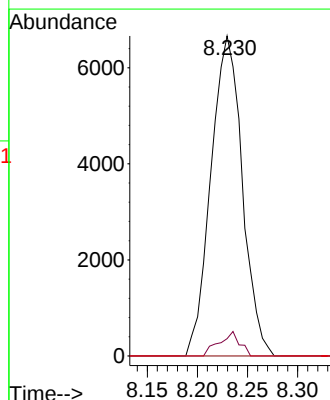
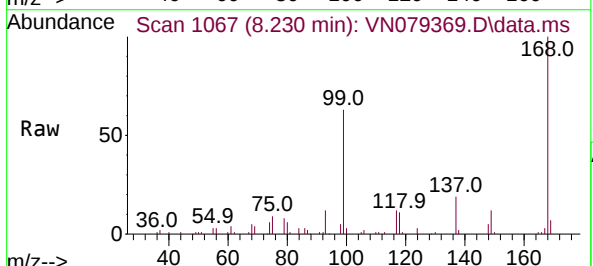
RT: 8.230 min Scan# 1067

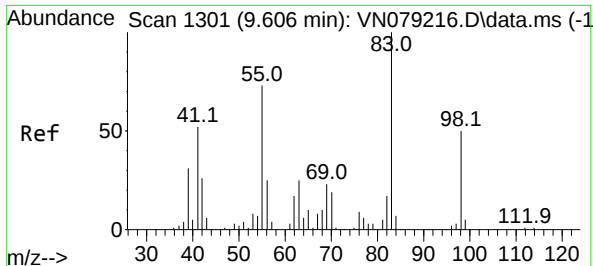
Delta R.T. -0.141 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Tgt Ion: 117	Resp: 14506
Ion Ratio	Lower Upper
117	100
119	5.4 77.3 115.9#
121	0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.427 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

ClientSampleId :

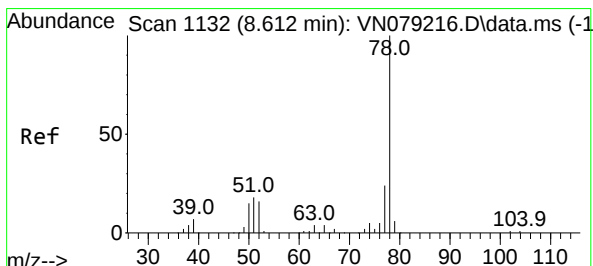
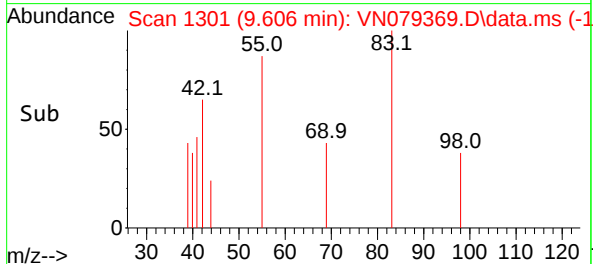
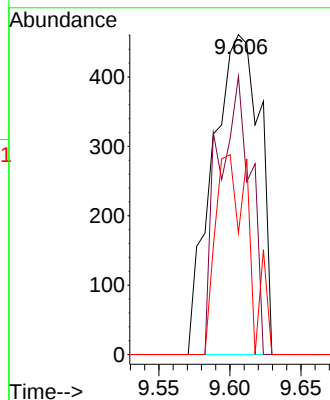
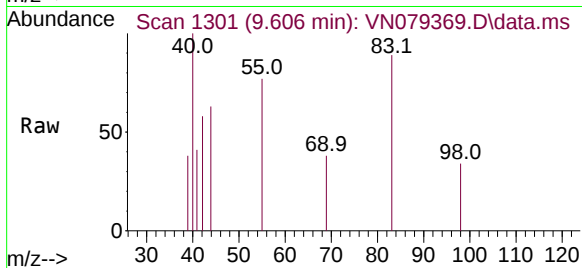
Tgt Ion: 83 Resp: 1066

Ion Ratio Lower Upper

83 100

55 87.0 49.1 73.7#

98 38.0 40.6 61.0#



#40

Benzene

Concen: 8.768 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN079369.D

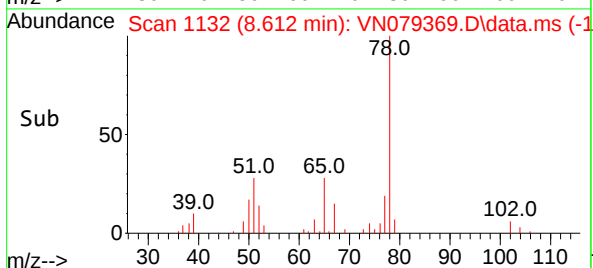
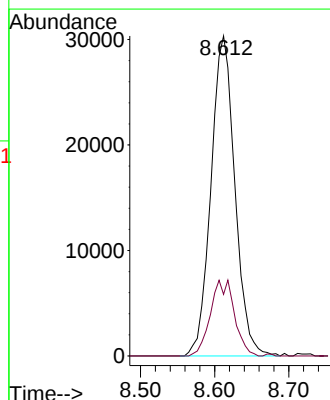
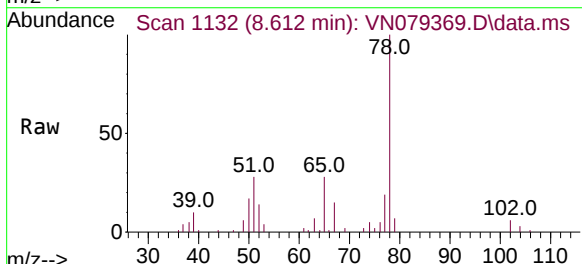
Acq: 28 Sep 2023 13:16

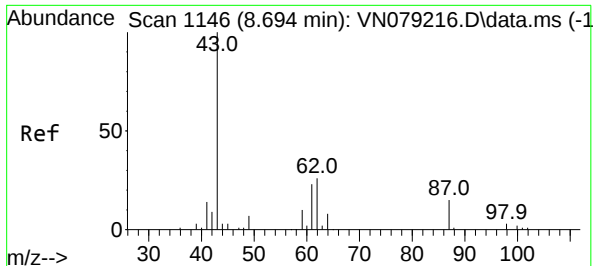
Tgt Ion: 78 Resp: 67984

Ion Ratio Lower Upper

78 100

77 19.2 19.0 28.6





#43

Isopropyl Acetate

Concen: 0.902 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079369.D

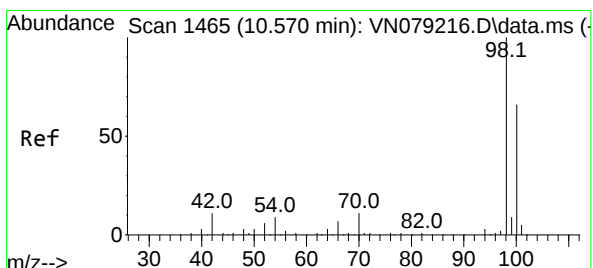
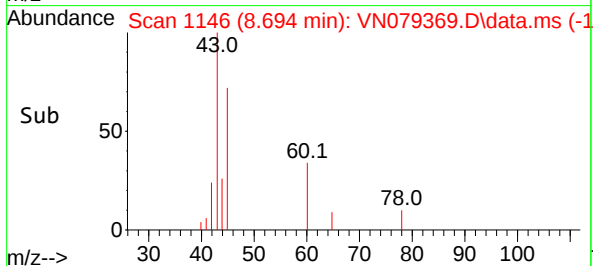
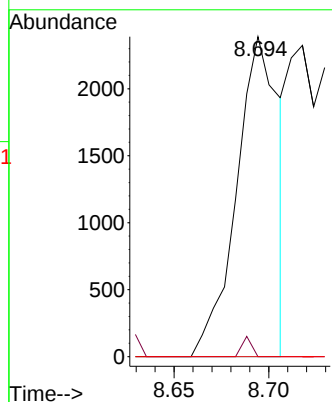
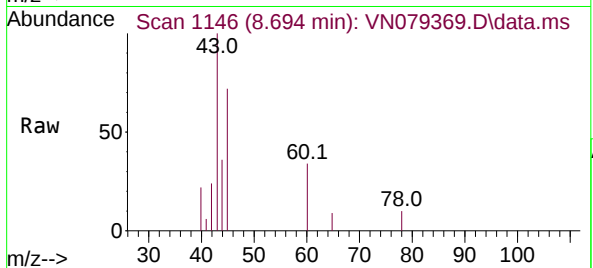
Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp:	3717
Ion Ratio	Lower	Upper
43	100	
61	0.0	24.7 37.1#
87	0.0	14.6 21.8#



#50

Toluene-d8

Concen: 49.399 ug/l

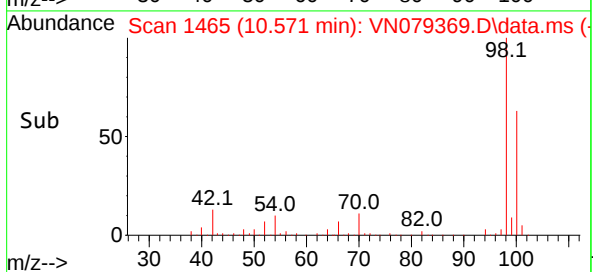
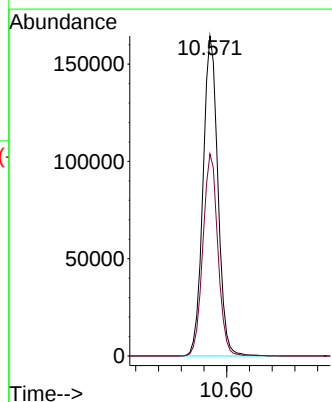
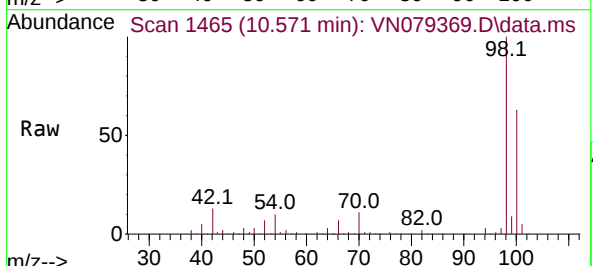
RT: 10.571 min Scan# 1465

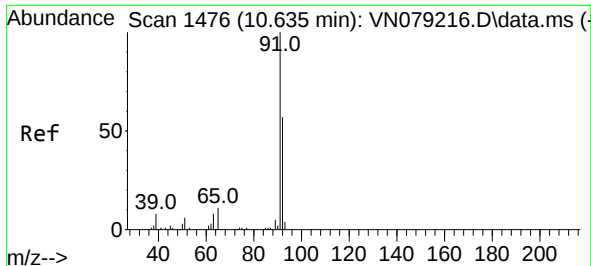
Delta R.T. -0.000 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Tgt Ion: 98	Resp:	298078
Ion Ratio	Lower	Upper
98	100	
100	63.7	52.0 78.0

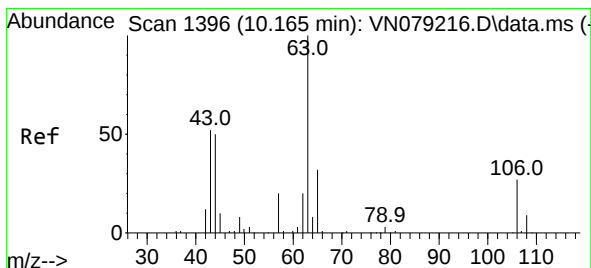
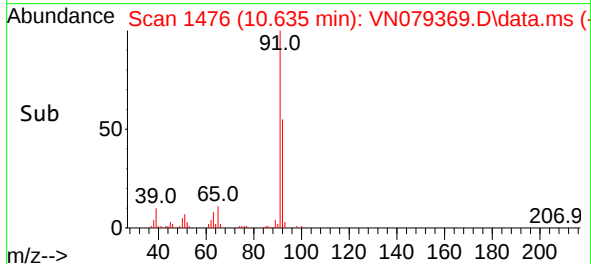
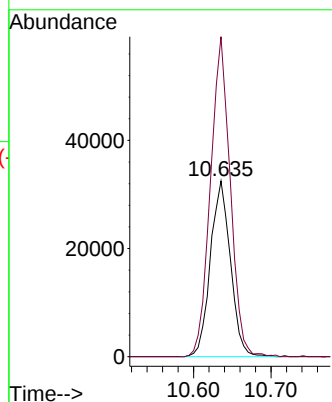
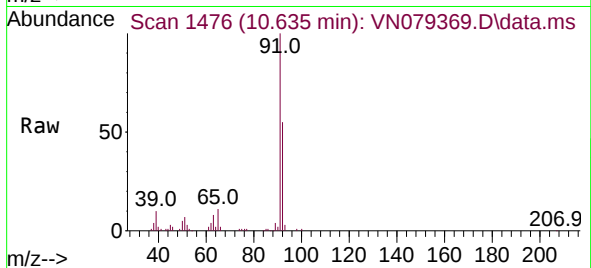




#52
Toluene
Concen: 12.267 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

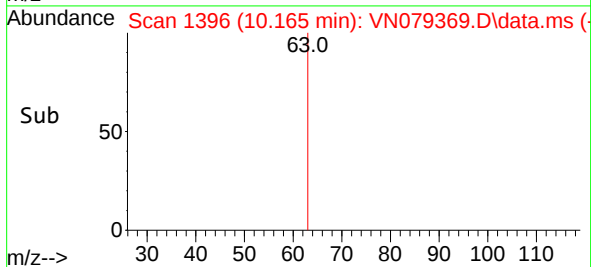
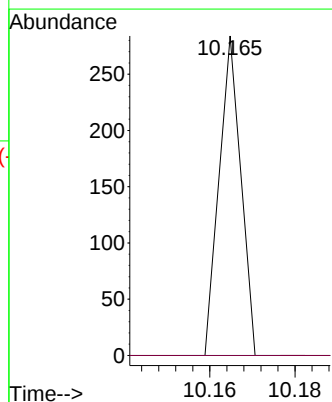
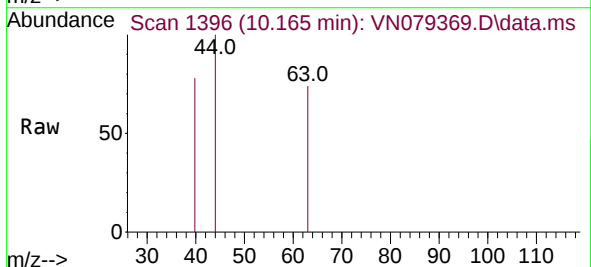
Instrument :
MSVOA_N
ClientSampleId :

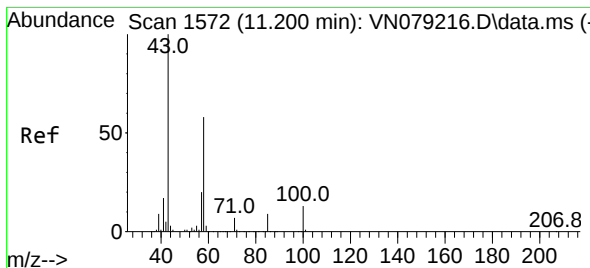
Tgt Ion: 92 Resp: 58456
Ion Ratio Lower Upper
92 100
91 179.9 137.4 206.0



#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 63 Resp: 100
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#





#59

2-Hexanone

Concen: 0.586 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

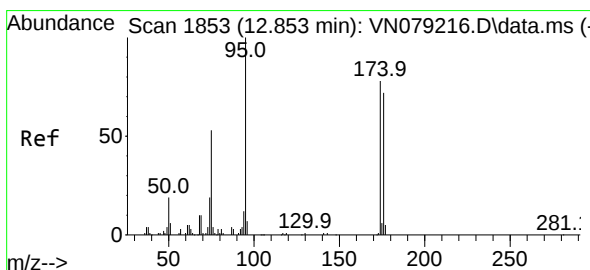
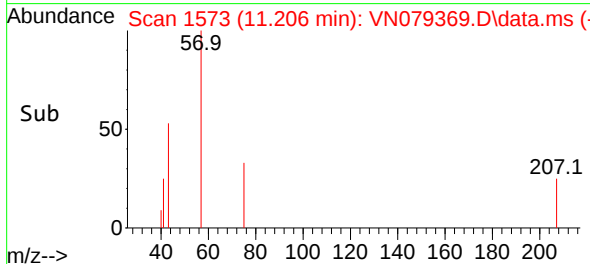
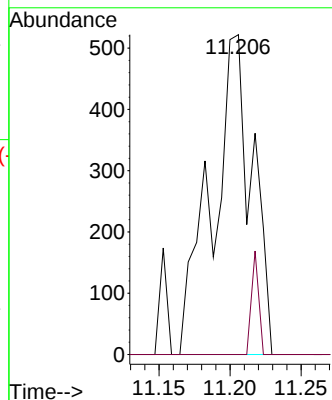
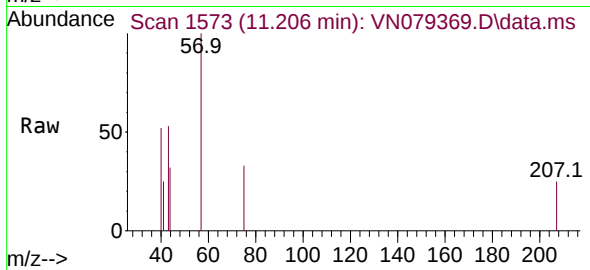
ClientSampleId :

Tgt Ion: 43 Resp: 1016

Ion Ratio Lower Upper

43 100

58 5.9 31.7 95.1#



#62

4-Bromofluorobenzene

Concen: 47.998 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

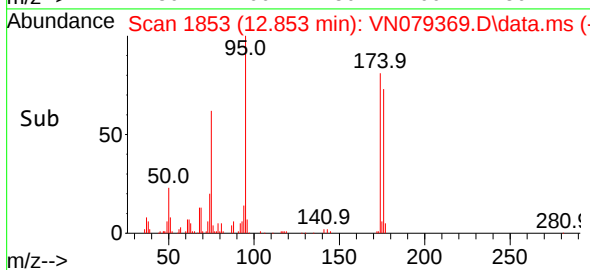
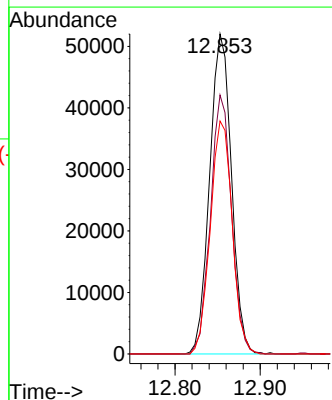
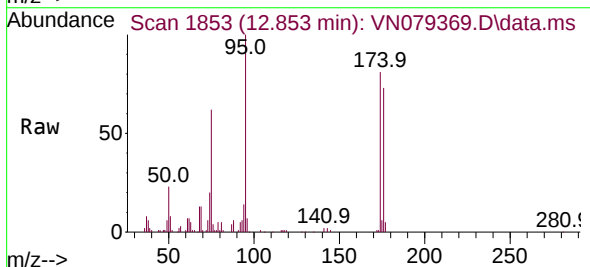
Tgt Ion: 95 Resp: 92384

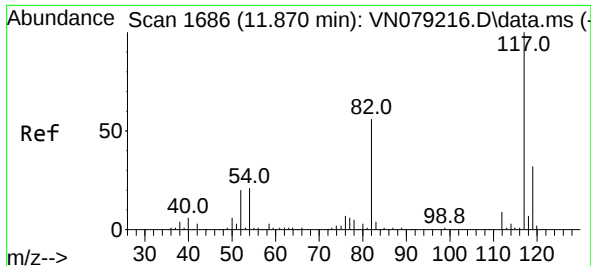
Ion Ratio Lower Upper

95 100

174 78.2 0.0 143.8

176 73.0 0.0 135.8

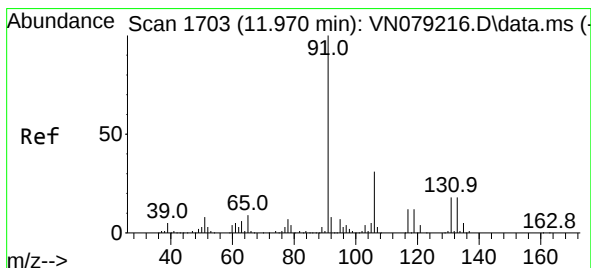
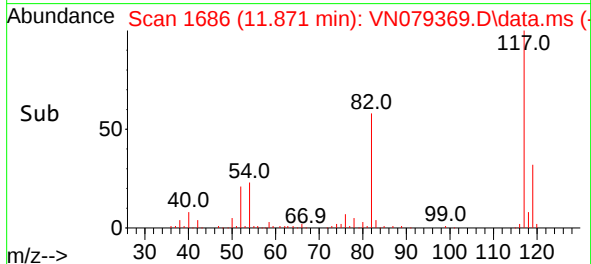
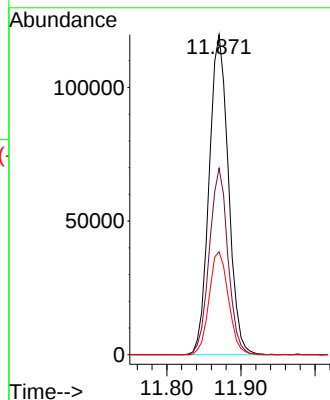
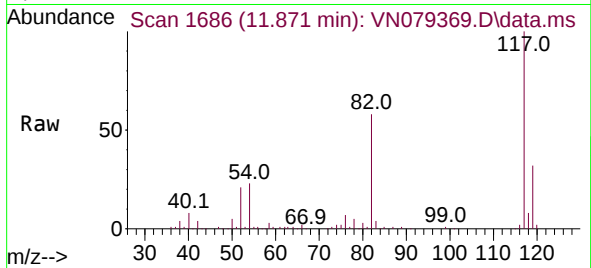




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

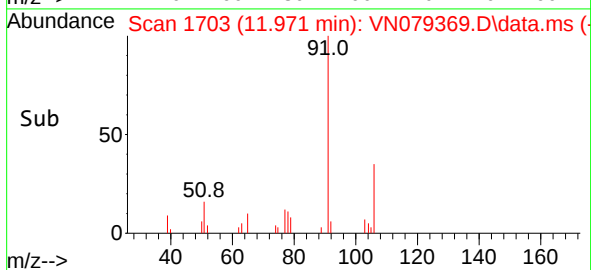
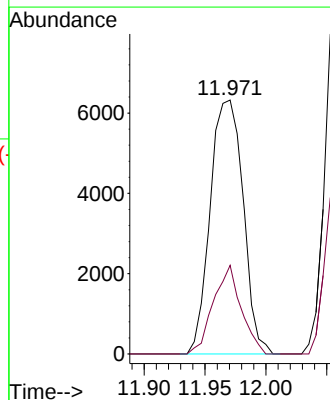
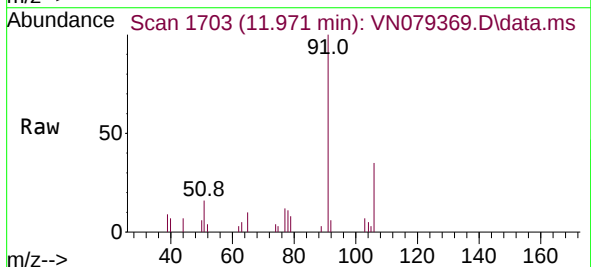
Instrument :
MSVOA_N
ClientSampleId :

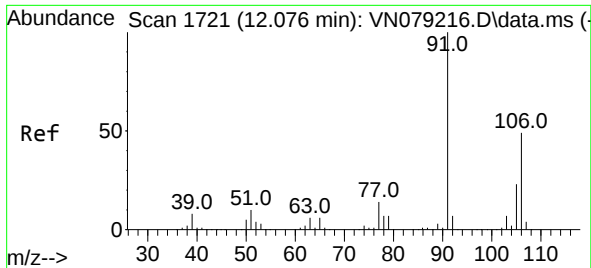
Tgt Ion:117 Resp: 215792
Ion Ratio Lower Upper
117 100
82 58.3 44.0 66.0
119 32.2 25.6 38.4



#67
Ethyl Benzene
Concen: 1.422 ug/l
RT: 11.971 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 91 Resp: 11888
Ion Ratio Lower Upper
91 100
106 34.9 25.6 38.4

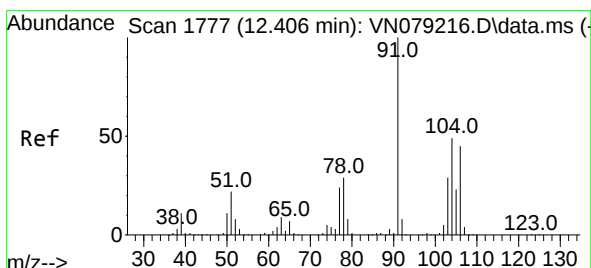
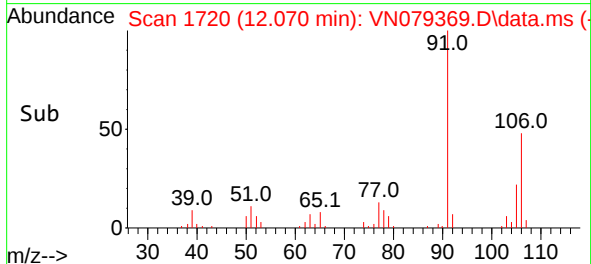
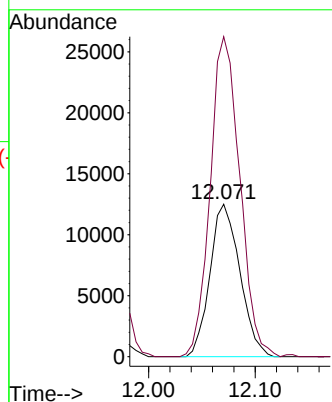
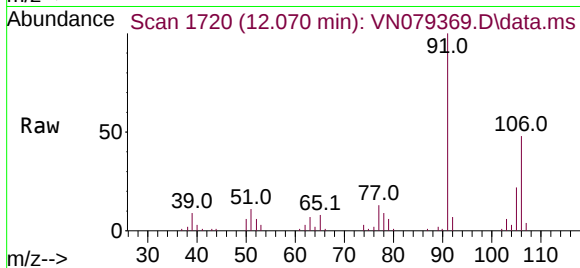




#68
m/p-Xylenes
Concen: 7.830 ug/l
RT: 12.070 min Scan# 1721
Delta R.T. -0.006 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

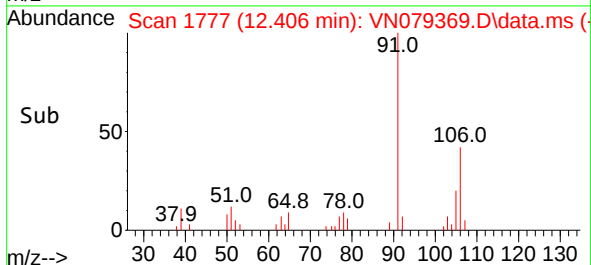
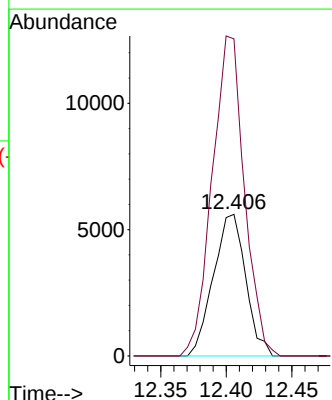
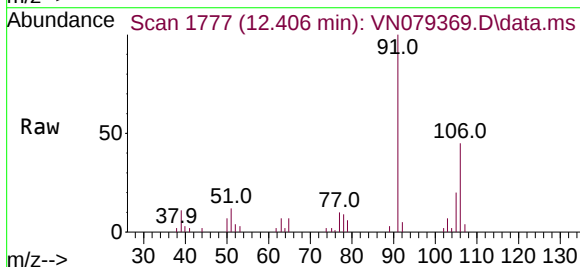
Instrument :
MSVOA_N
ClientSampleId :

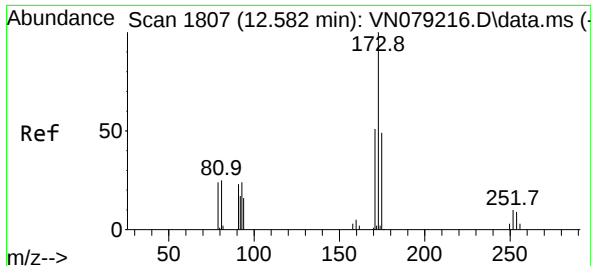
Tgt Ion:106 Resp: 24403
Ion Ratio Lower Upper
106 100
91 207.4 159.6 239.4



#69
o-Xylene
Concen: 3.217 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion:106 Resp: 9616
Ion Ratio Lower Upper
106 100
91 224.8 105.2 315.5

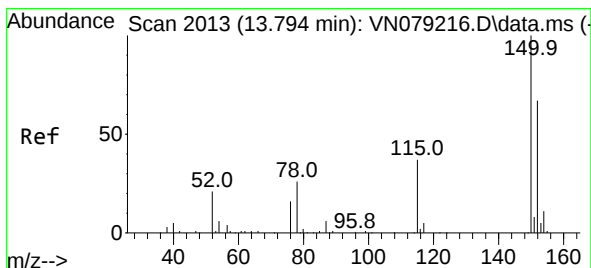
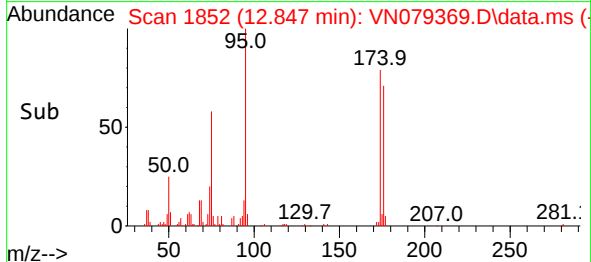
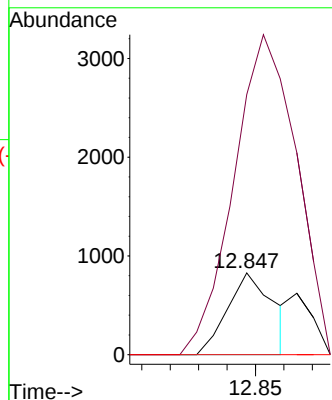
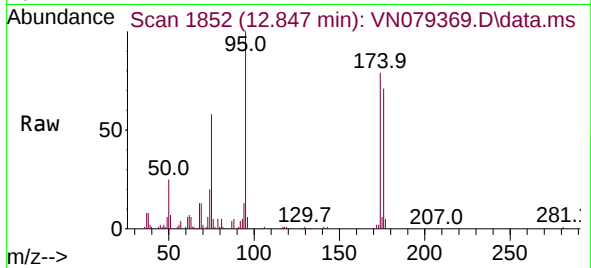




#71
Bromoform
Concen: 0.686 ug/l
RT: 12.847 min Scan# 1807
Delta R.T. 0.265 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

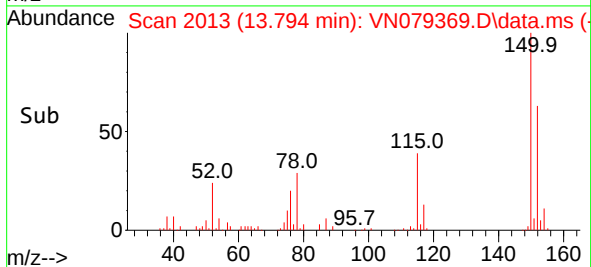
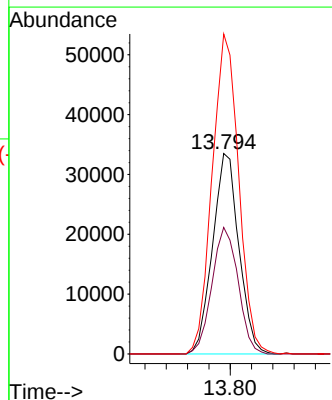
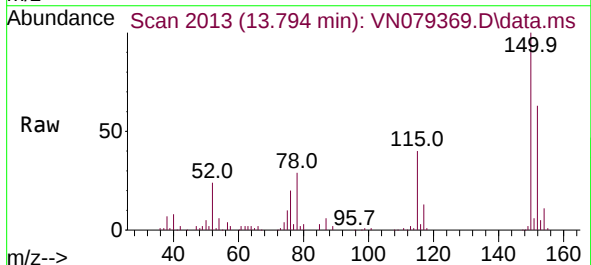
Instrument :
MSVOA_N
ClientSampleId :

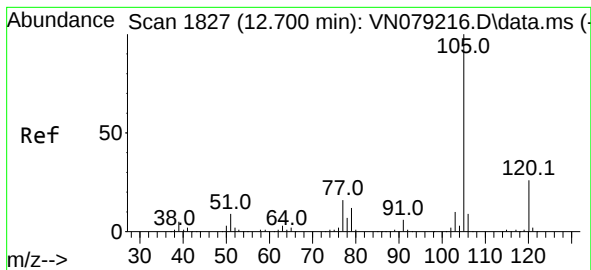
Tgt Ion:173 Resp: 929
Ion Ratio Lower Upper
173 100
175 420.9 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion:152 Resp: 57391
Ion Ratio Lower Upper
152 100
115 62.7 32.3 96.8
150 160.9 0.0 355.8





#73

Isopropylbenzene

Concen: 0.494 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. -0.000 min

Lab File: VN079369.D

Acq: 28 Sep 2023 13:16

Instrument :

MSVOA_N

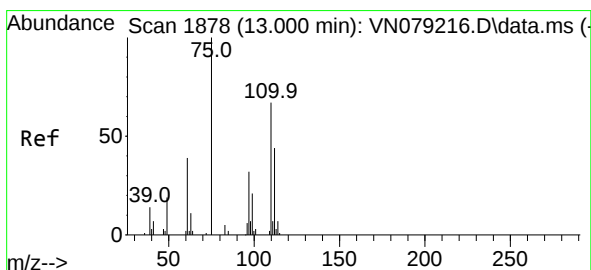
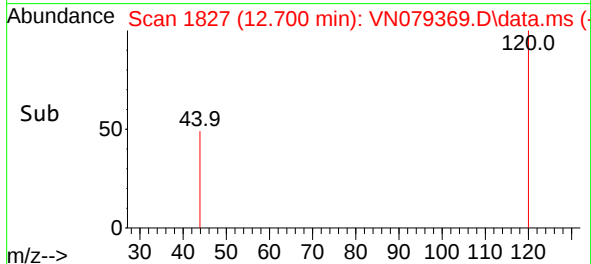
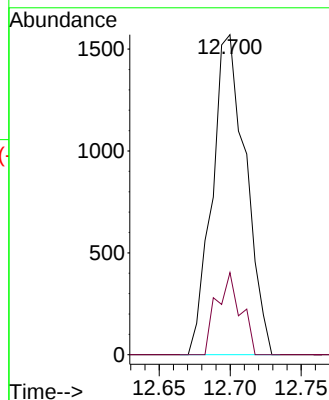
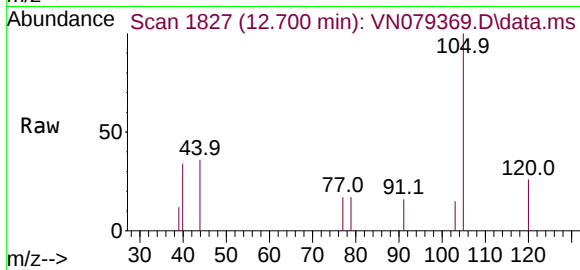
ClientSampleId :

Tgt Ion:105 Resp: 2582

Ion Ratio Lower Upper

105 100

120 18.4 13.1 39.1



#76

1,2,3-Trichloropropane

Concen: 34.431 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079369.D

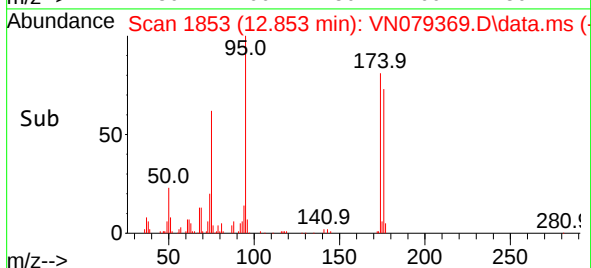
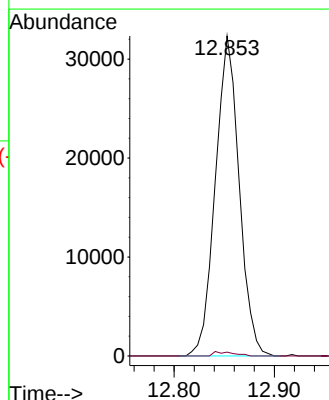
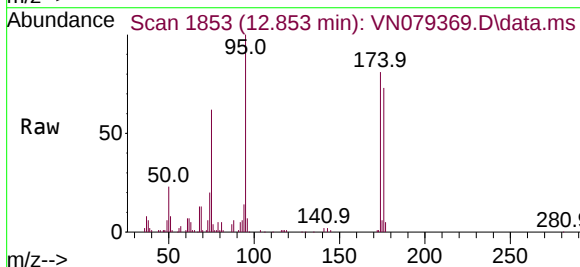
Acq: 28 Sep 2023 13:16

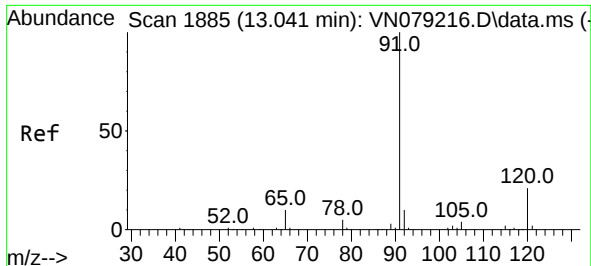
Tgt Ion: 75 Resp: 53256

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#

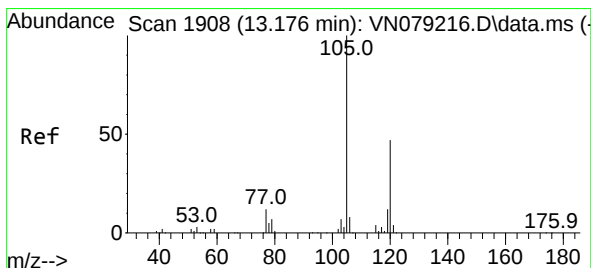
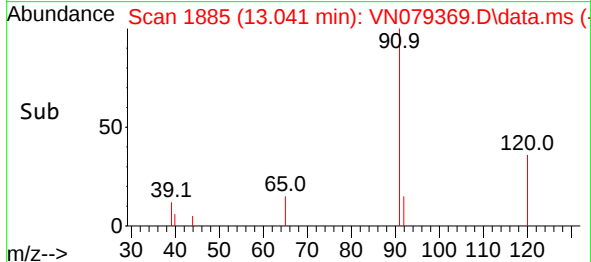
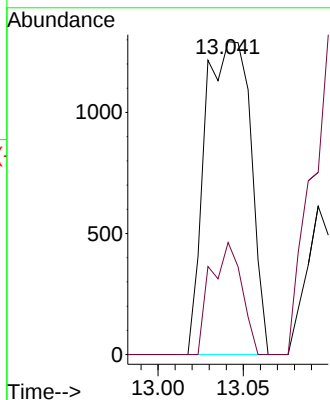
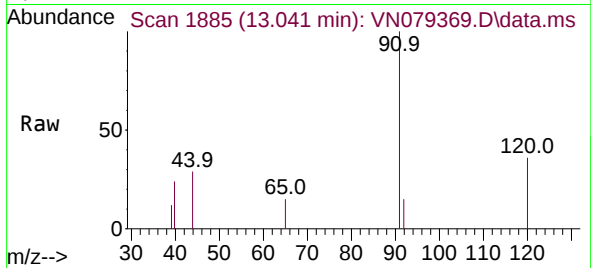




#78
n-propylbenzene
Concen: 0.410 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

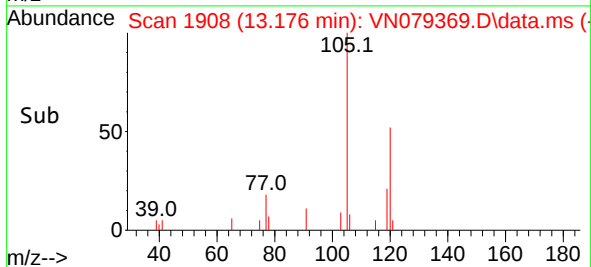
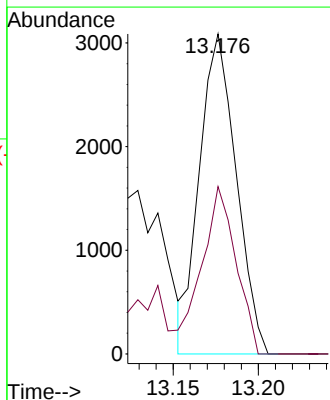
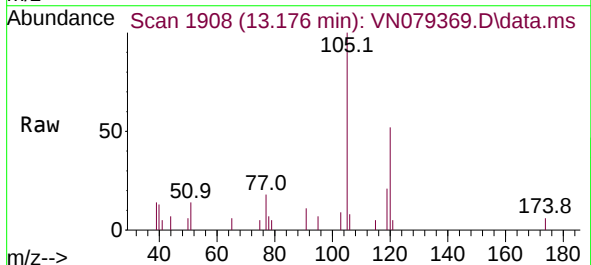
Instrument :
MSVOA_N
ClientSampleId :

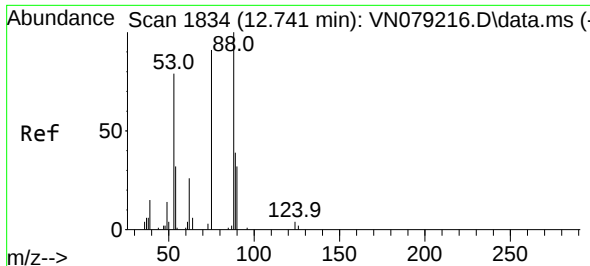
Tgt Ion: 91 Resp: 2406
Ion Ratio Lower Upper
91 100
120 24.3 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 1.061 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 105 Resp: 4618
Ion Ratio Lower Upper
105 100
120 48.4 24.1 72.3

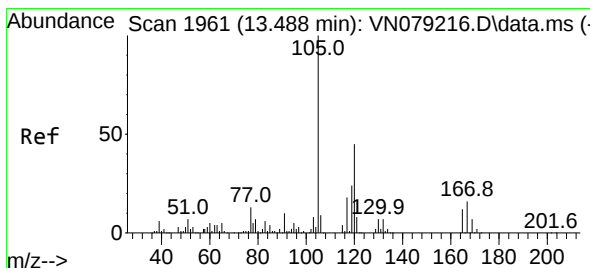
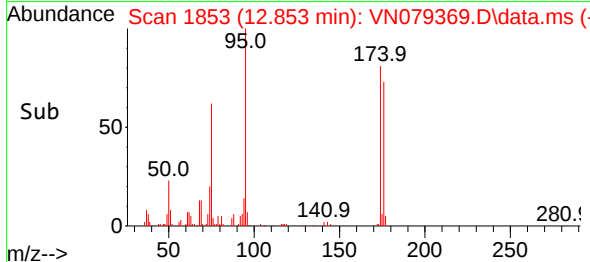
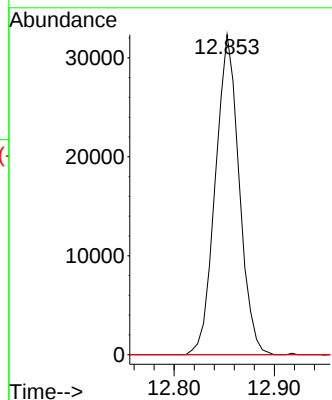
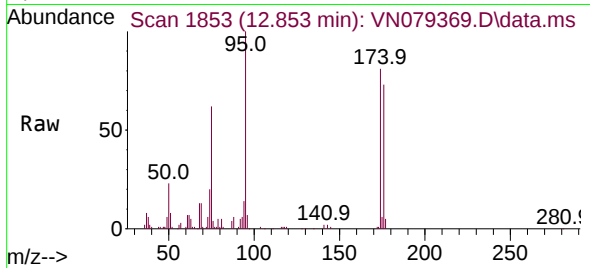




#81
trans-1,4-Dichloro-2-butene
Concen: 94.657 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 53256
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.905 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.006 min
Lab File: VN079369.D
Acq: 28 Sep 2023 13:16

Tgt Ion: 105 Resp: 3748
Ion Ratio Lower Upper
105 100
120 45.8 22.0 66.0

