

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080322\
 Data File : VN073710.D
 Acq On : 03 Aug 2022 14:35
 Operator : JC\MD
 Sample : N3971-15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23R

Quant Time: Aug 04 05:34:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

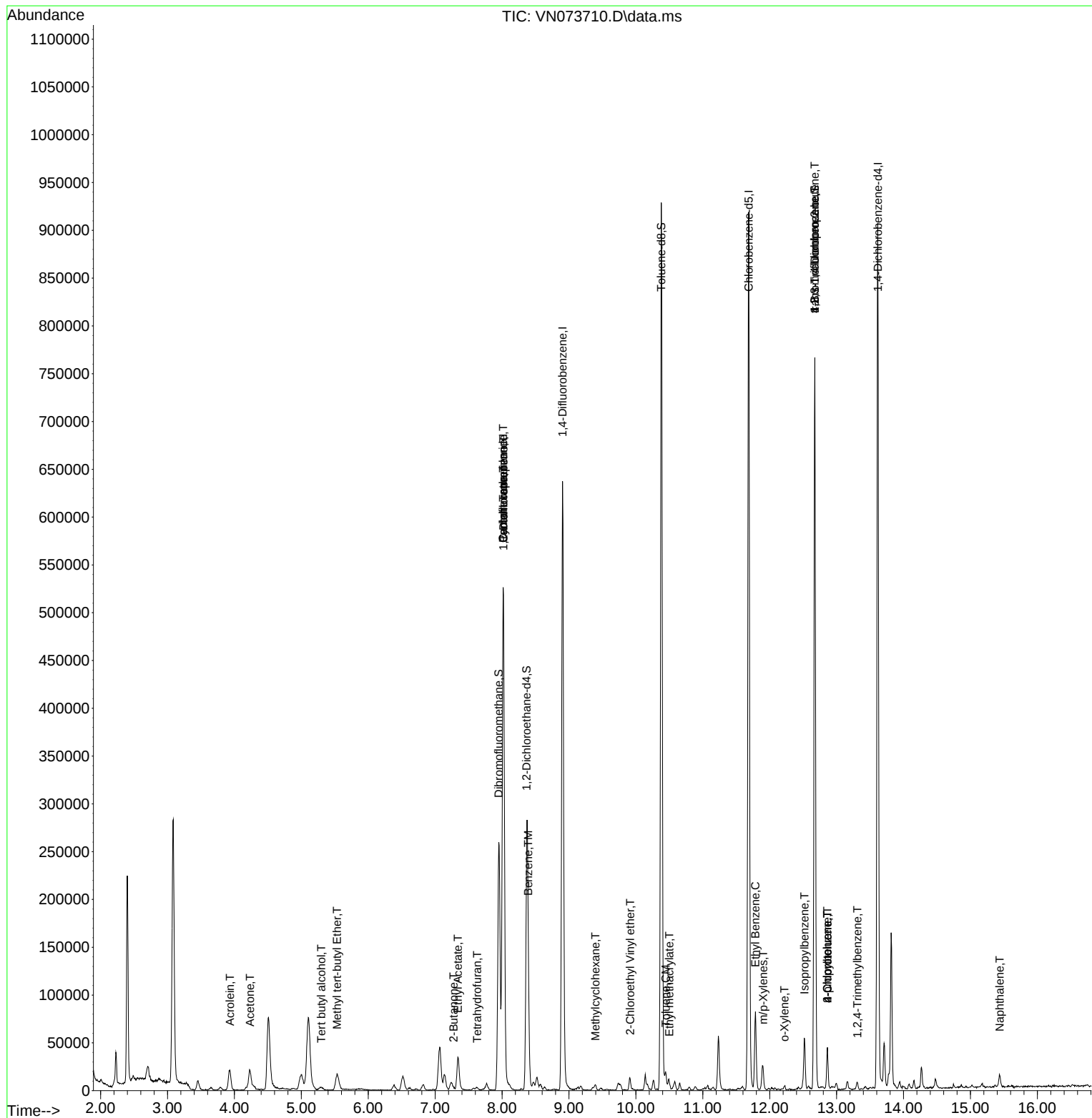
Internal Standards						
1) Pentafluorobenzene	8.016	168	360927	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	568506	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	546617	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	261481	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	210544	47.867	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.740%		
35) Dibromofluoromethane	7.951	113	193580	54.226	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.460%		
50) Toluene-d8	10.380	98	651228	46.358	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.720%		
62) 4-Bromofluorobenzene	12.674	95	247053	52.195	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.380%		
Target Compounds						Qvalue
3) Chloromethane	2.269	50	1058	Below Cal		94
6) Chloroethane	2.922	64	910	Below Cal	#	50
11) Tert butyl alcohol	5.298	59	5632	5.937	ug/l #	72
13) Acrolein	3.934	56	879	0.935	ug/l #	1
16) Acetone	4.234	43	40059	16.956	ug/l	95
19) Methyl tert-butyl Ether	5.534	73	21832	1.866	ug/l #	84
20) Methylene Chloride	5.016	84	2649	Below Cal	#	72
25) 2-Butanone	7.275	43	3900	1.063	ug/l #	78
29) Tetrahydrofuran	7.628	42	1765	0.761	ug/l #	79
31) Cyclohexane	8.016	56	51189	7.817	ug/l #	91
36) 1,1-Dichloropropene	8.022	75	26922	5.291	ug/l #	53
37) Ethyl Acetate	7.339	43	52733	7.870	ug/l	98
38) Carbon Tetrachloride	8.016	117	34092	6.597	ug/l #	17
39) Methylcyclohexane	9.398	83	2392	0.393	ug/l	97
40) Benzene	8.392	78	58920	3.566	ug/l	100
52) Toluene	10.445	92	6100	0.604	ug/l	88
56) Ethyl methacrylate	10.498	69	1512	0.261	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.916	63	187	10.000	ug/l #	44
67) Ethyl Benzene	11.786	91	56954	2.908	ug/l	96
68) m/p-Xylenes	11.904	106	8823	1.181	ug/l	99
69) o-Xylene	12.221	106	1556	0.214	ug/l	89
73) Isopropylbenzene	12.521	105	33651	1.758	ug/l	99
76) 1,2,3-Trichloropropane	12.674	75	128277	25.179	ug/l #	1
78) n-propylbenzene	12.863	91	33337	1.548	ug/l	93
79) 2-Chlorotoluene	12.863	91	33337	2.480	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.674	75	128277	63.576	ug/l #	11
82) 4-Chlorotoluene	12.863	91	33337	2.617	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.310	105	4435	0.286	ug/l	94
95) Naphthalene	15.439	128	12865	0.866	ug/l	99

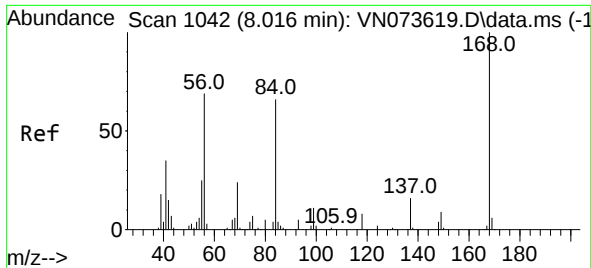
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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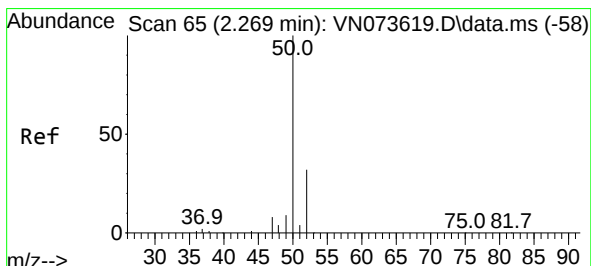
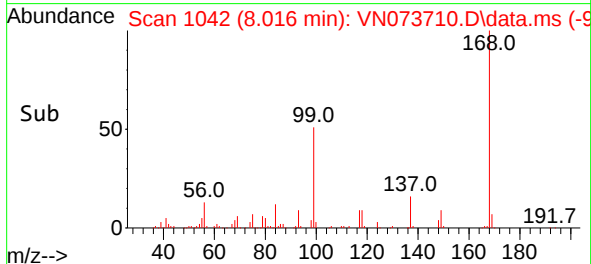
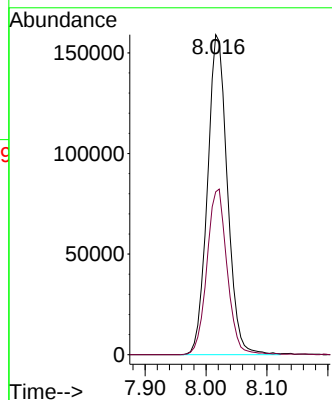
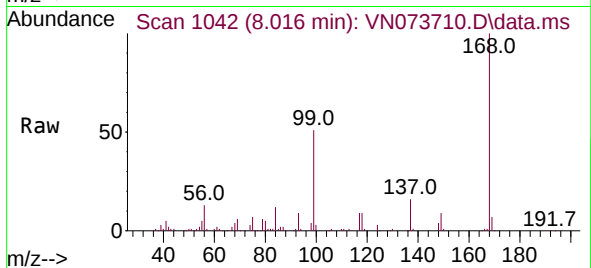




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

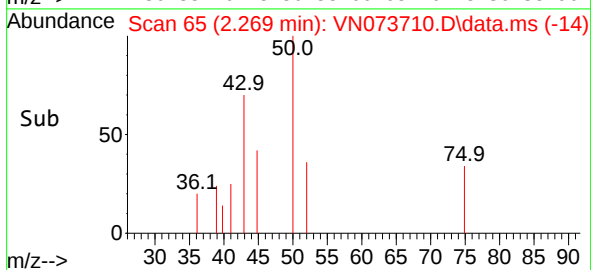
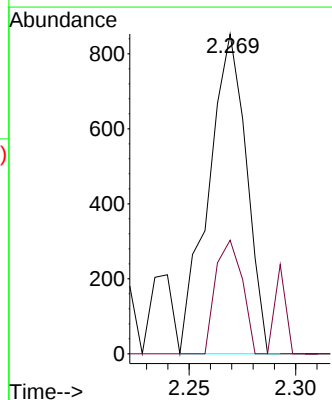
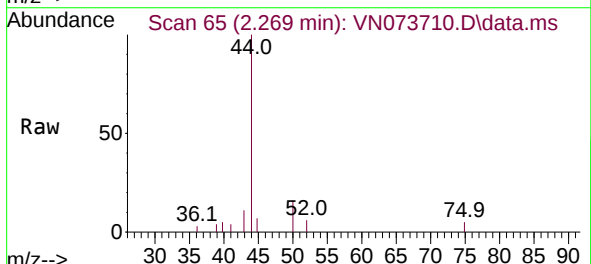
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

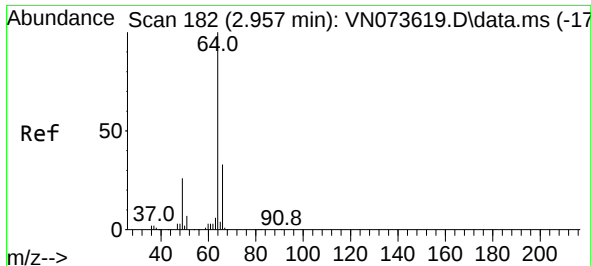
Tgt Ion:168 Resp: 360927
Ion Ratio Lower Upper
168 100
99 50.9 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 50 Resp: 1058
Ion Ratio Lower Upper
50 100
52 35.5 25.7 38.5

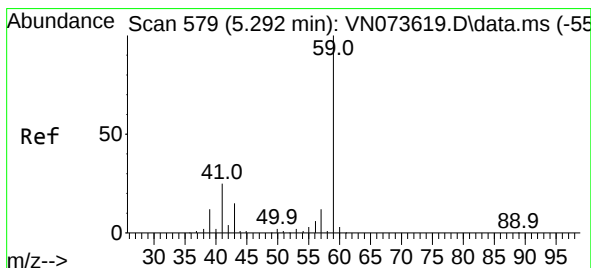
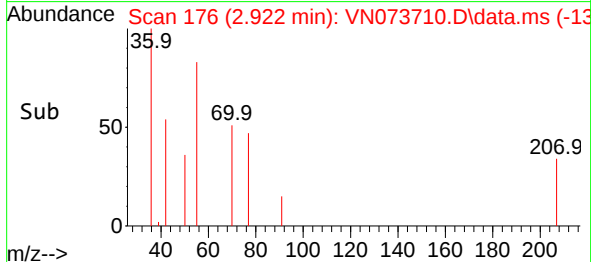
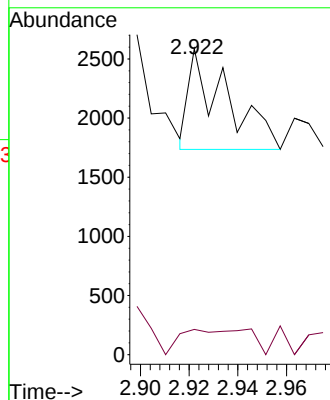
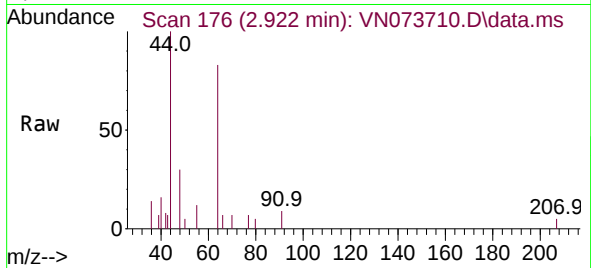




#6
Chloroethane
Concen: Below Cal
RT: 2.922 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

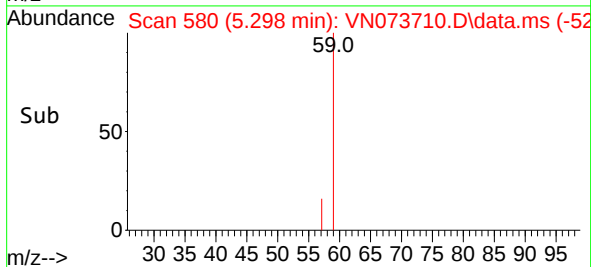
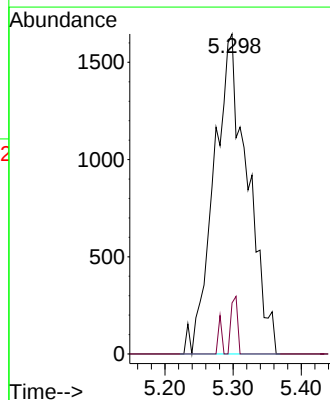
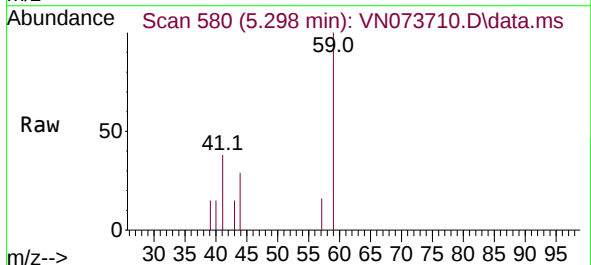
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

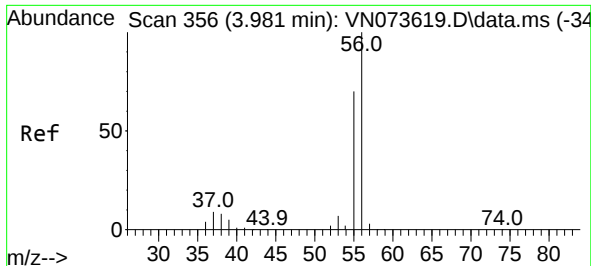
Tgt Ion: 64 Resp: 910
Ion Ratio Lower Upper
64 100
66 4.4 26.2 39.4#



#11
Tert butyl alcohol
Concen: 5.937 ug/l
RT: 5.298 min Scan# 580
Delta R.T. 0.006 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 59 Resp: 5632
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

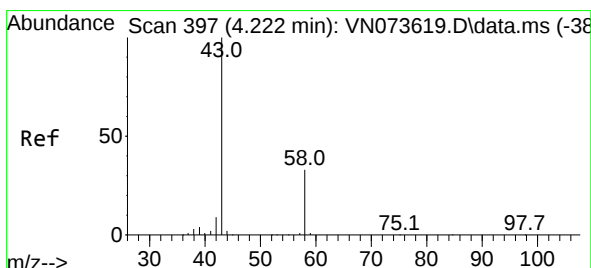
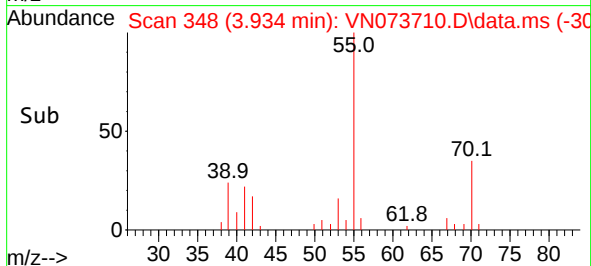
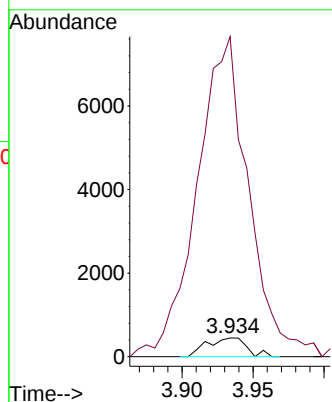
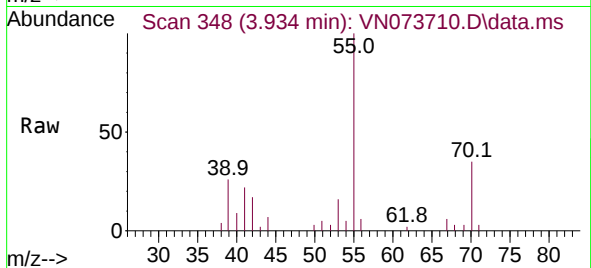




#13
Acrolein
Concen: 0.935 ug/l
RT: 3.934 min Scan# 348
Delta R.T. -0.047 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

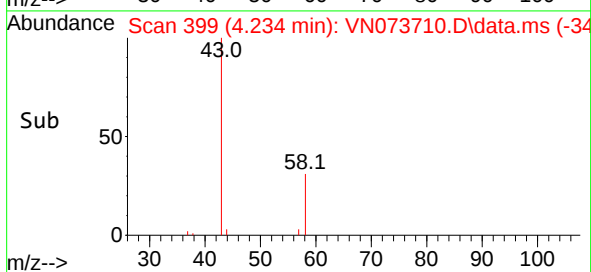
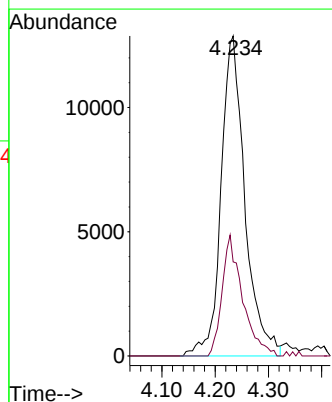
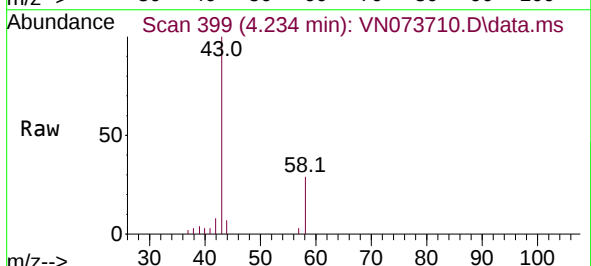
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

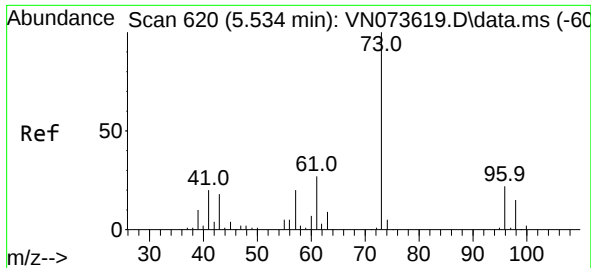
Tgt Ion: 56 Resp: 879
Ion Ratio Lower Upper
56 100
55 2217.1 54.8 82.2#



#16
Acetone
Concen: 16.956 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 43 Resp: 40059
Ion Ratio Lower Upper
43 100
58 29.4 26.0 39.0

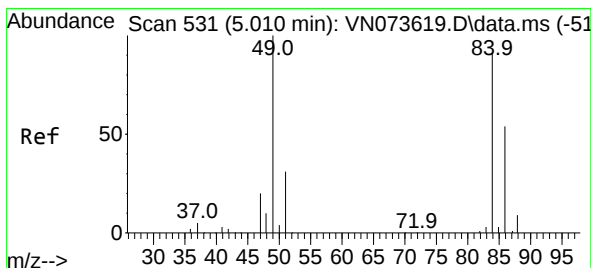
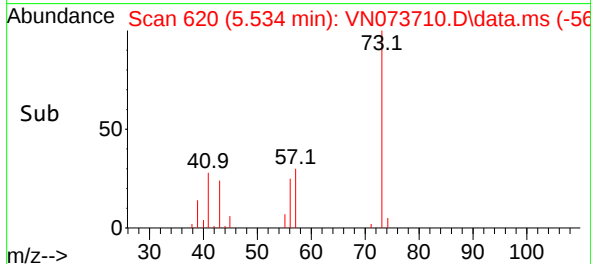
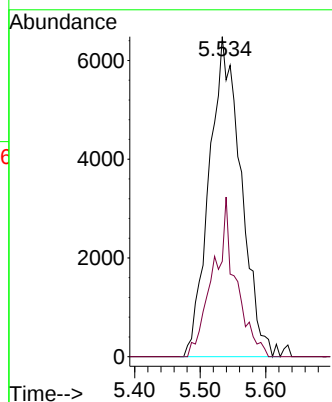
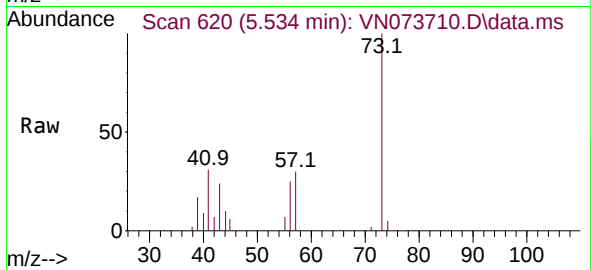




#19
Methyl tert-butyl Ether
Concen: 1.866 ug/l
RT: 5.534 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

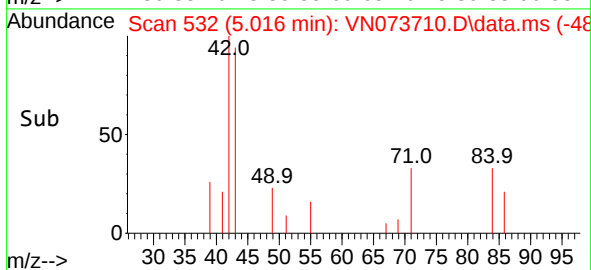
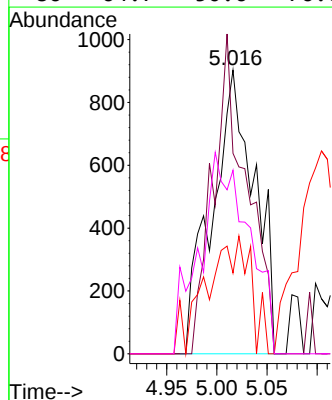
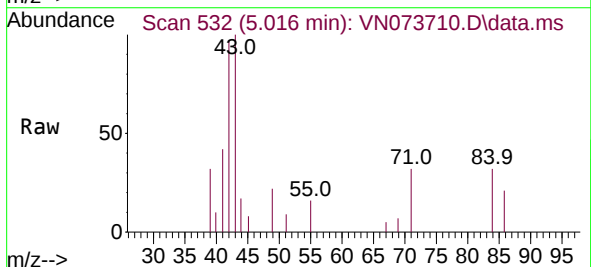
Instrument :
MSVOA_N
ClientSampleId :
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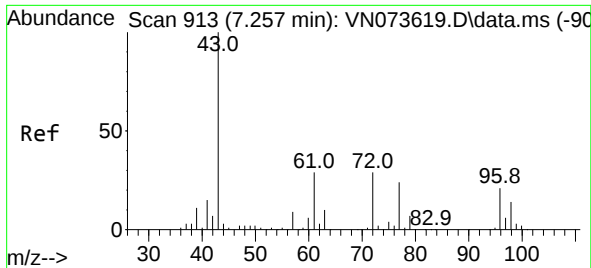
Tgt Ion: 73 Resp: 21832
Ion Ratio Lower Upper
73 100
57 29.8 17.6 26.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.016 min Scan# 532
Delta R.T. 0.006 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 84 Resp: 2649
Ion Ratio Lower Upper
84 100
49 70.7 88.3 132.5#
51 10.4 28.2 42.2#
86 64.7 50.6 76.0

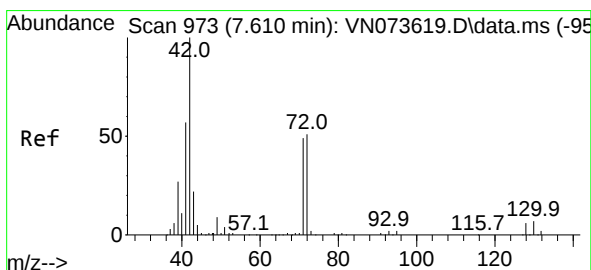
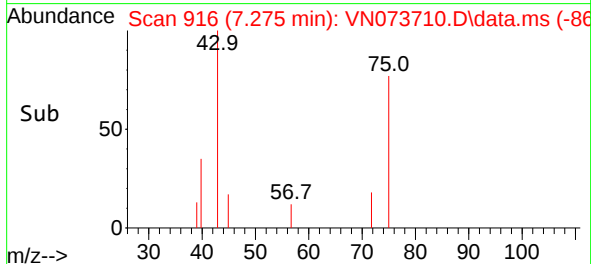
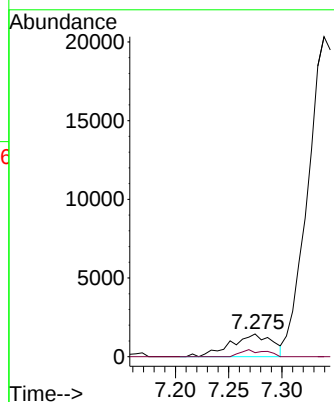
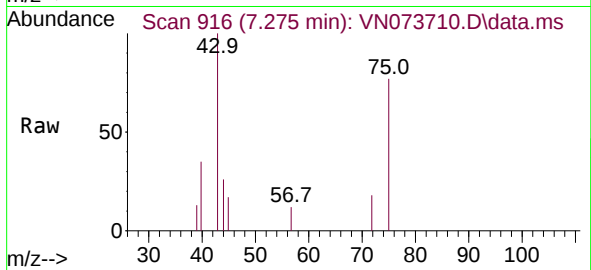




#25
2-Butanone
Concen: 1.063 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

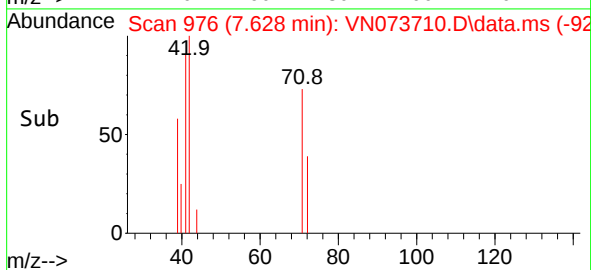
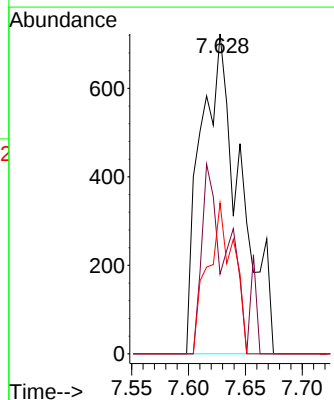
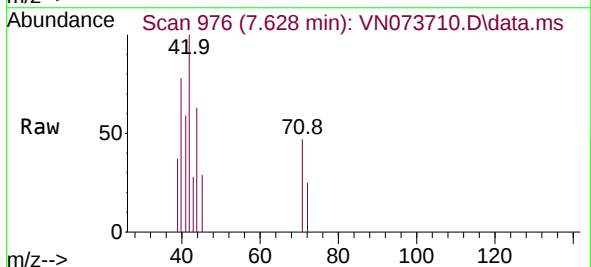
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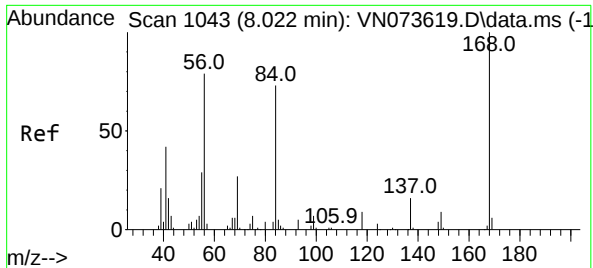
Tgt Ion: 43 Resp: 3900
Ion Ratio Lower Upper
43 100
72 17.5 23.7 35.5#



#29
Tetrahydrofuran
Concen: 0.761 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.018 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 42 Resp: 1765
Ion Ratio Lower Upper
42 100
72 36.7 39.7 59.5#
71 30.9 36.6 55.0#

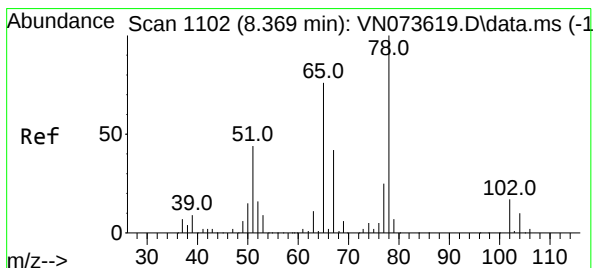
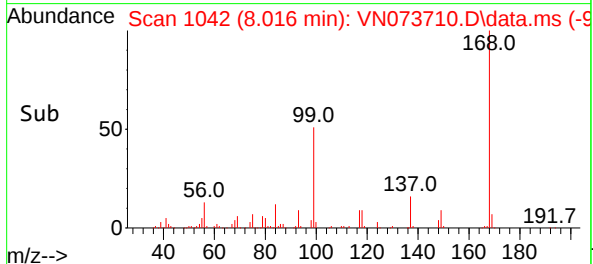
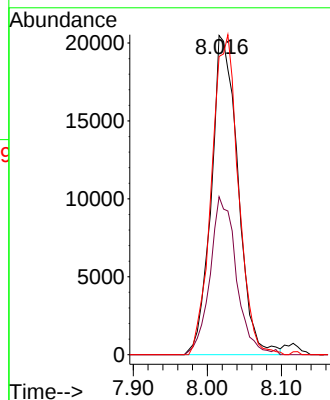
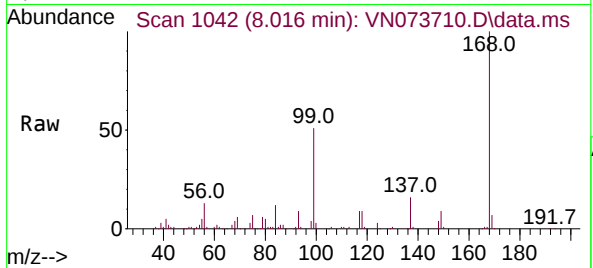




#31
Cyclohexane
Concen: 7.817 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

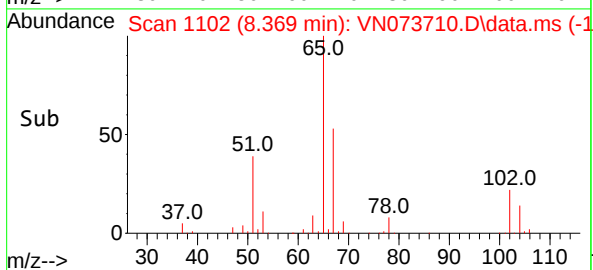
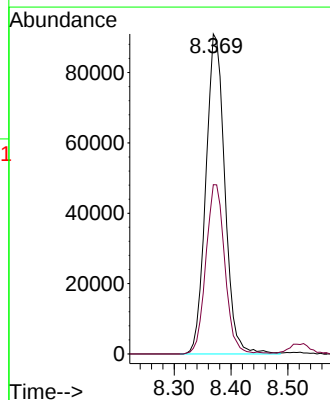
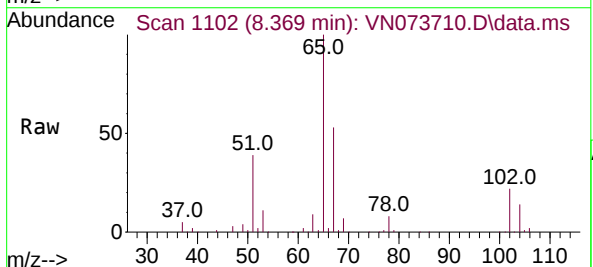
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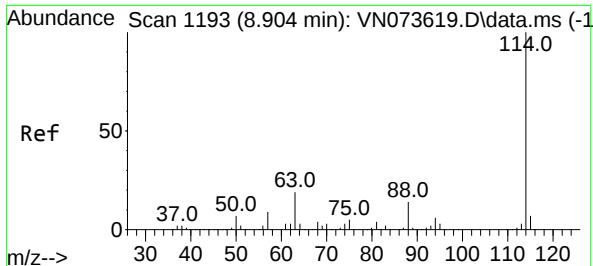
Tgt Ion: 56 Resp: 51189
Ion Ratio Lower Upper
56 100
69 49.5 27.8 41.8#
84 93.5 76.9 115.3



#33
1,2-Dichloroethane-d4
Concen: 47.867 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 65 Resp: 210544
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073710.D

Acq: 03 Aug 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

MW-23R

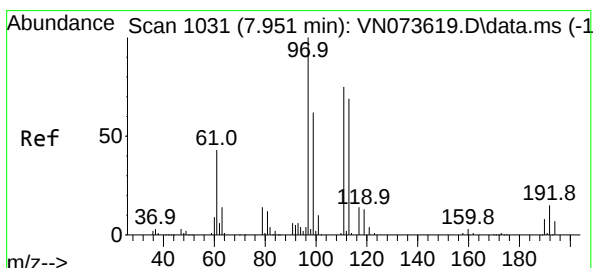
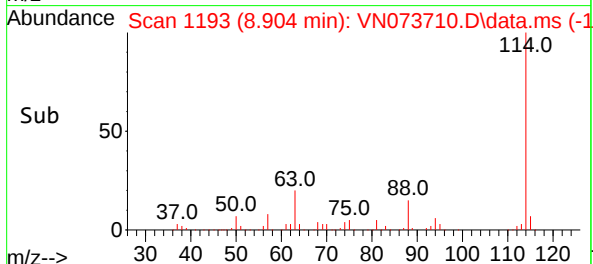
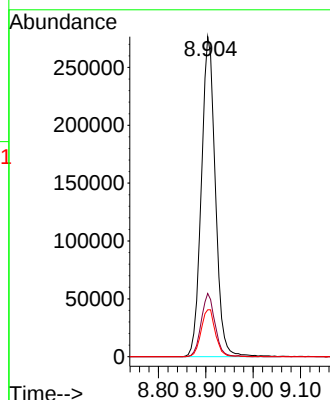
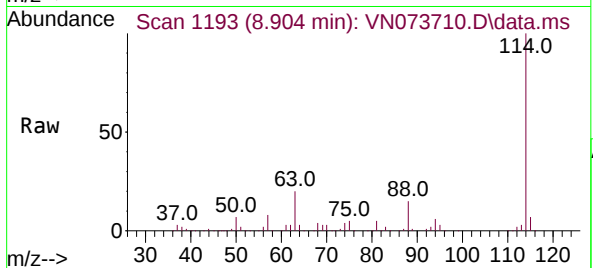
Tgt Ion:114 Resp: 568506

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 14.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.226 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073710.D

Acq: 03 Aug 2022 14:35

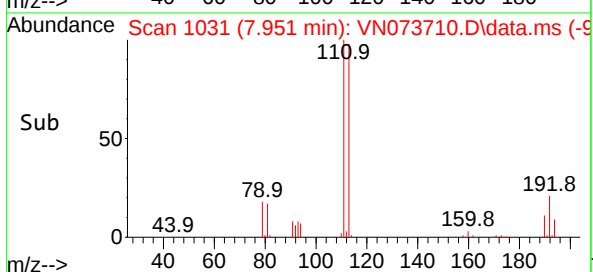
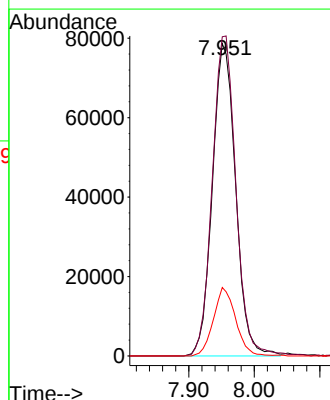
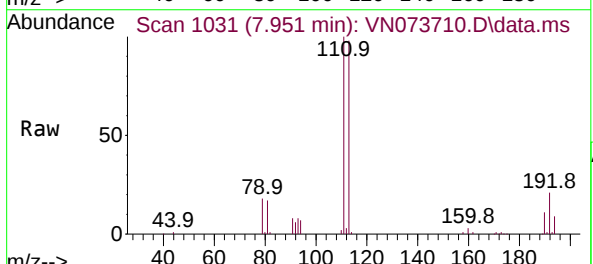
Tgt Ion:113 Resp: 193580

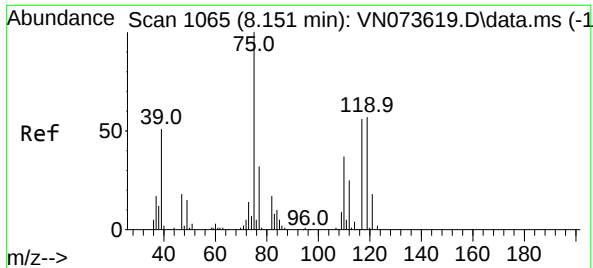
Ion Ratio Lower Upper

113 100

111 104.1 81.4 122.0

192 20.9 17.0 25.6

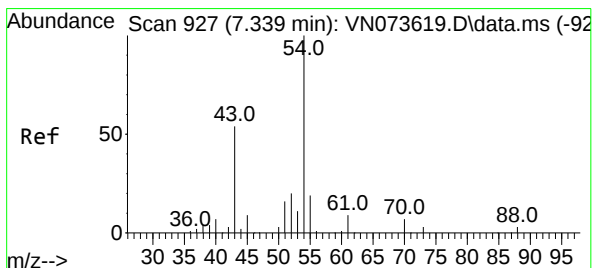
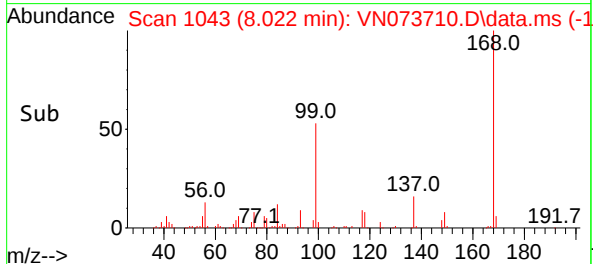
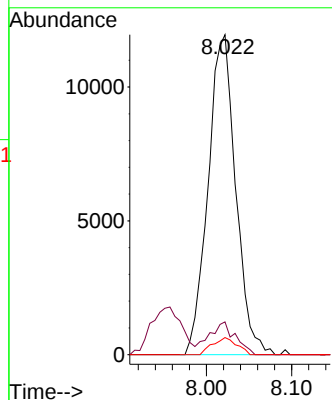
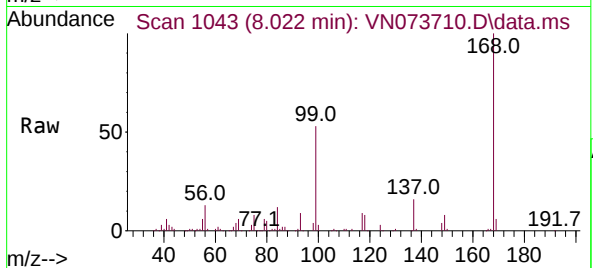




#36
1,1-Dichloropropene
Concen: 5.291 ug/l
RT: 8.022 min Scan# 1065
Delta R.T. -0.129 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

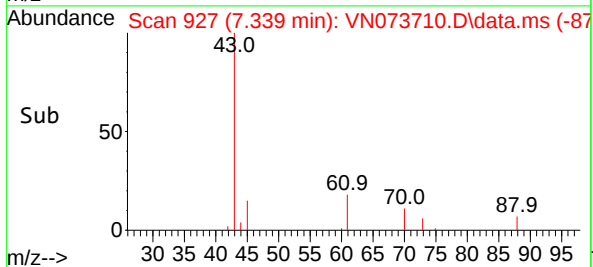
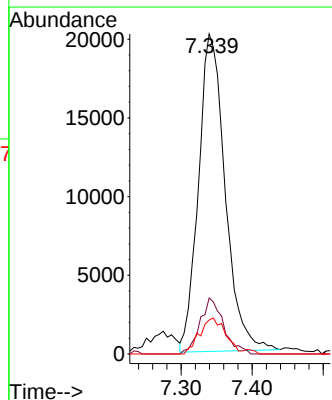
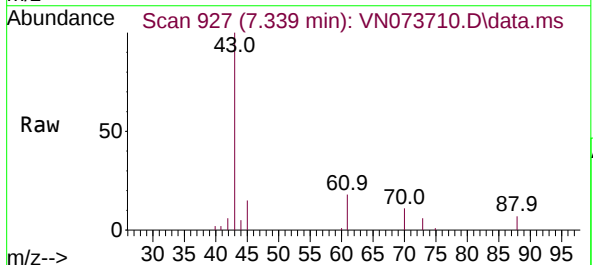
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

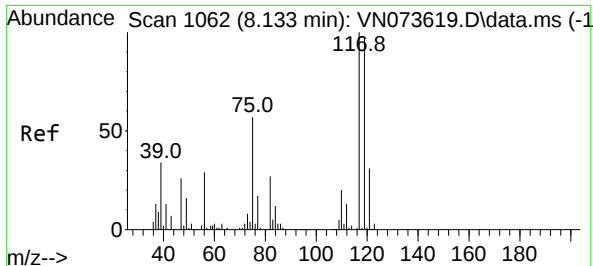
Tgt Ion: 75 Resp: 26922
Ion Ratio Lower Upper
75 100
110 9.7 18.3 54.8#
77 4.7 25.1 37.7#



#37
Ethyl Acetate
Concen: 7.870 ug/l
RT: 7.339 min Scan# 927
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 43 Resp: 52733
Ion Ratio Lower Upper
43 100
61 15.5 11.8 17.6
70 11.0 9.3 13.9

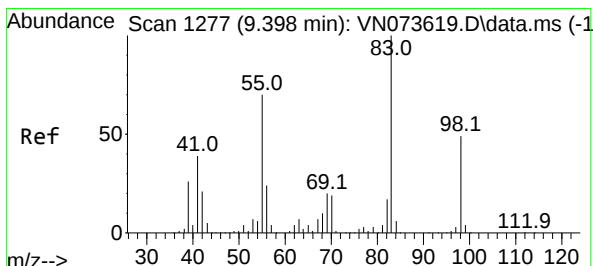
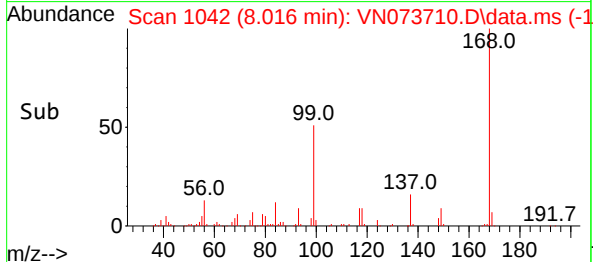
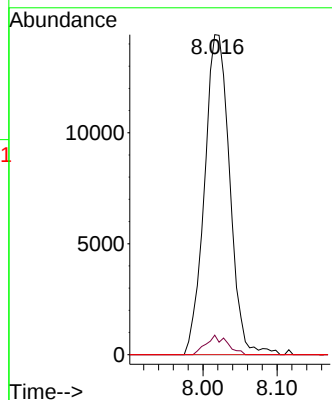
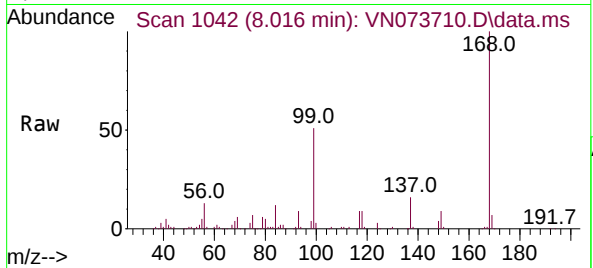




#38
Carbon Tetrachloride
Concen: 6.597 ug/l
RT: 8.016 min Scan# 1062
Delta R.T. -0.118 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

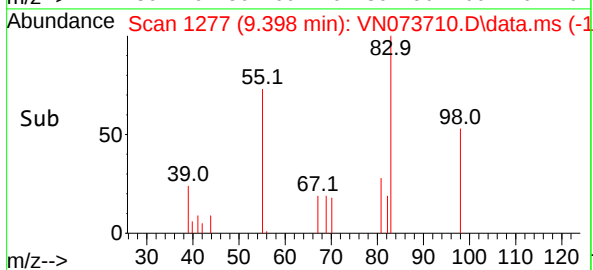
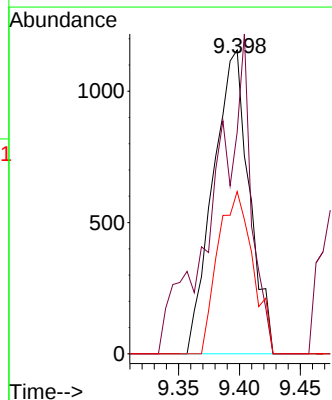
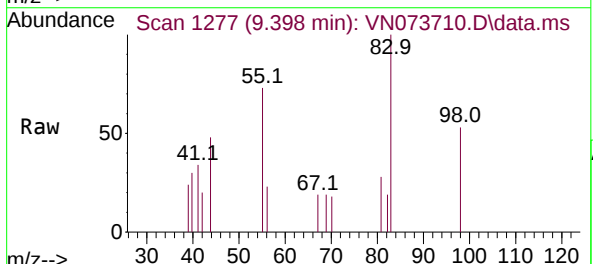
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

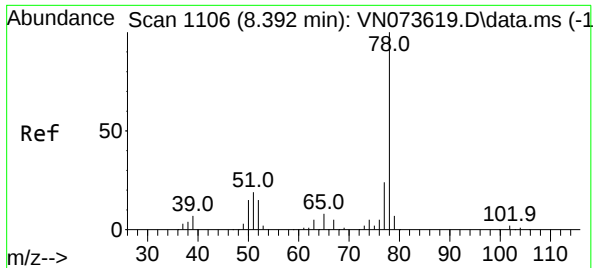
Tgt Ion:117 Resp: 34092
Ion Ratio Lower Upper
117 100
119 6.1 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.393 ug/l
RT: 9.398 min Scan# 1277
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 83 Resp: 2392
Ion Ratio Lower Upper
83 100
55 72.9 57.8 86.8
98 53.4 39.4 59.2

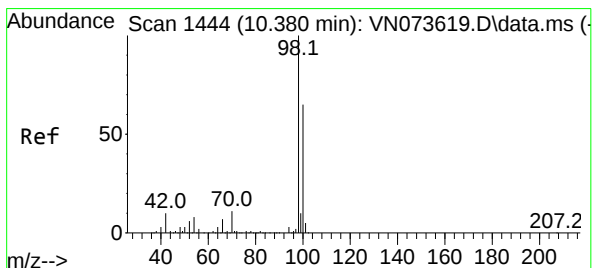
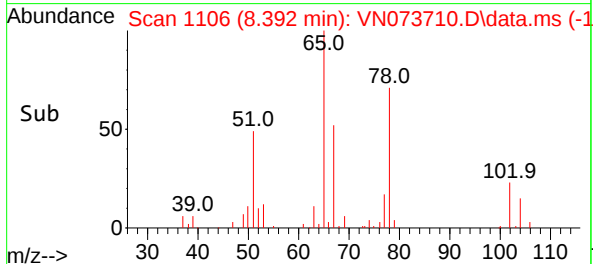
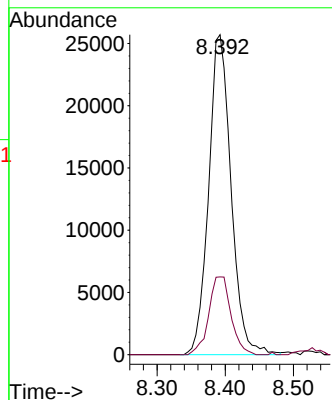
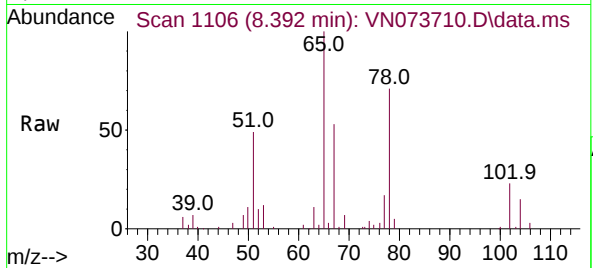




#40
Benzene
Concen: 3.566 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

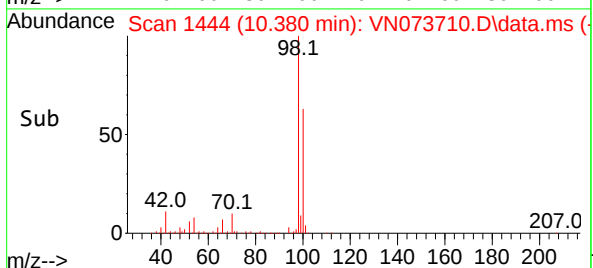
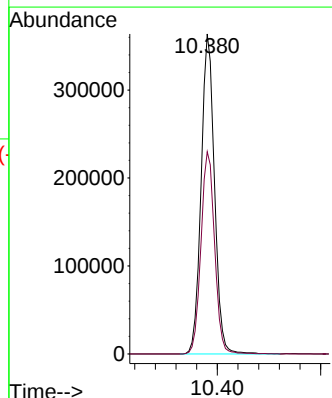
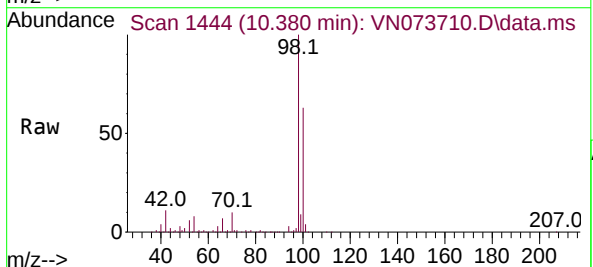
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

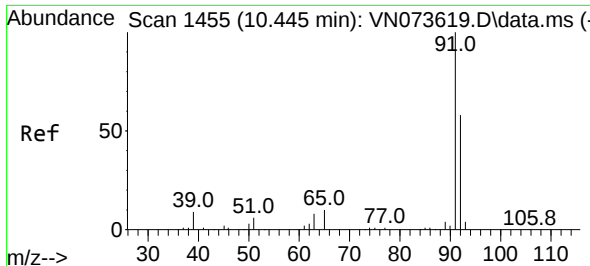
Tgt Ion: 78 Resp: 58920
Ion Ratio Lower Upper
78 100
77 24.3 19.4 29.0



#50
Toluene-d8
Concen: 46.358 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 98 Resp: 651228
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8

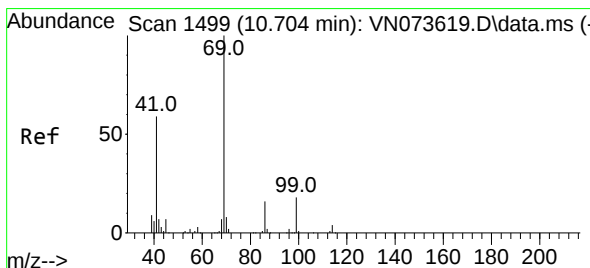
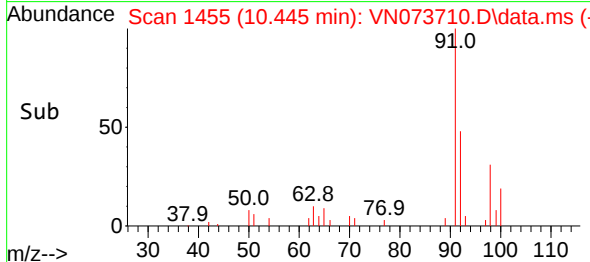
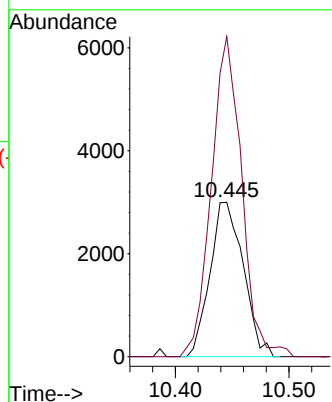
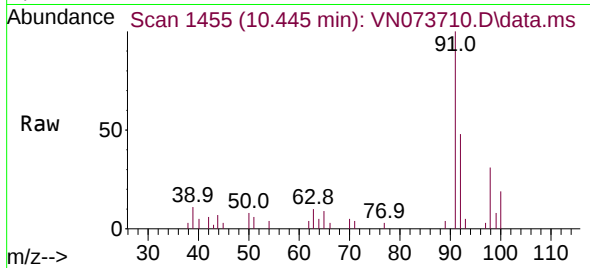




#52
Toluene
Concen: 0.604 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

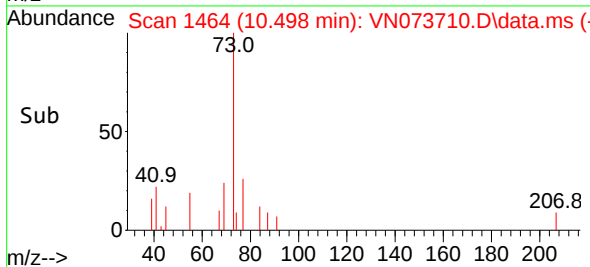
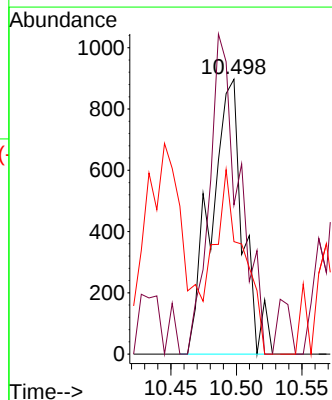
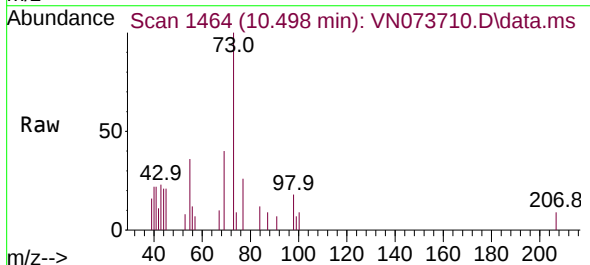
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

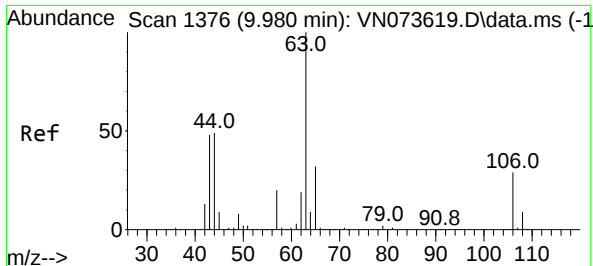
Tgt Ion: 92 Resp: 6100
Ion Ratio Lower Upper
92 100
91 189.3 138.6 207.8



#56
Ethyl methacrylate
Concen: 0.261 ug/l
RT: 10.498 min Scan# 1464
Delta R.T. -0.206 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 69 Resp: 1512
Ion Ratio Lower Upper
69 100
41 109.5 47.8 71.6#
39 59.1 27.3 40.9#

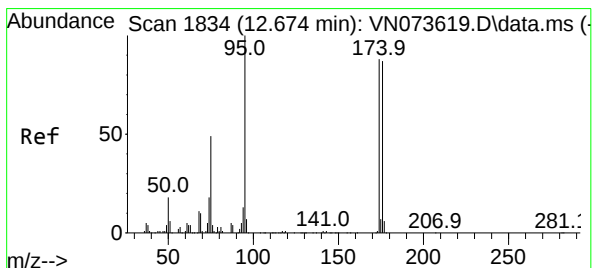
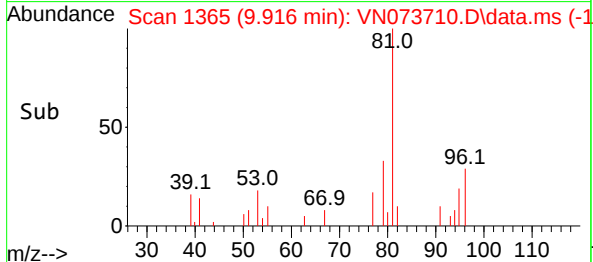
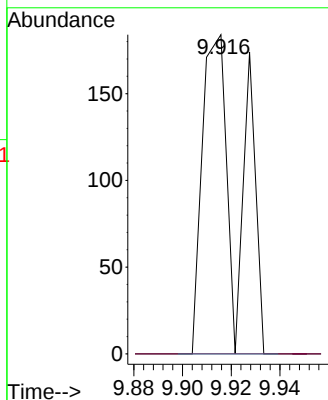
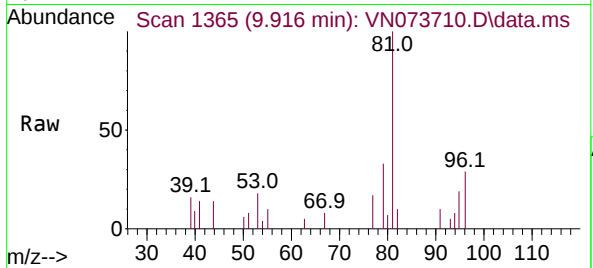




#58
2-Chloroethyl Vinyl ether
Concen: 10.000 ug/l
RT: 9.916 min Scan# 11
Delta R.T. -0.064 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

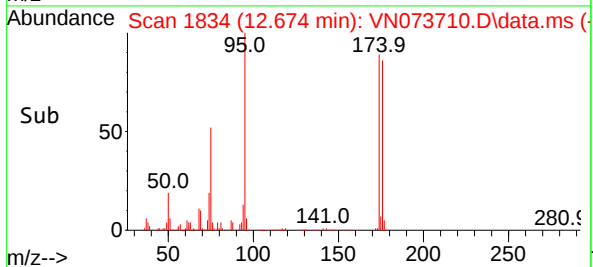
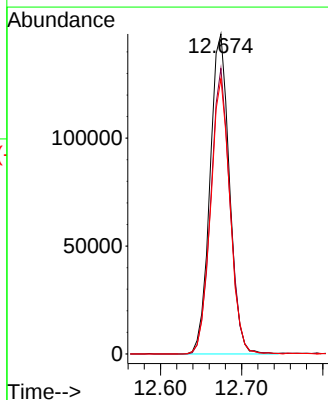
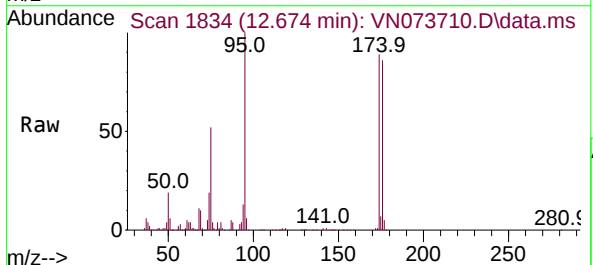
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

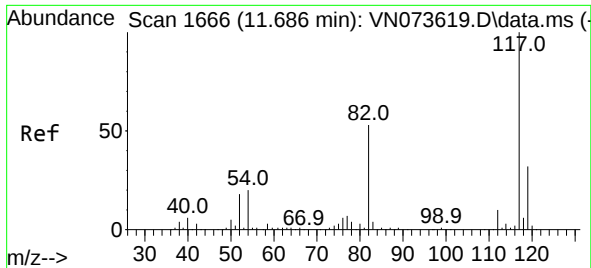
Tgt Ion: 63 Resp: 187
Ion Ratio Lower Upper
63 100
106 0.0 24.6 36.8#



#62
4-Bromofluorobenzene
Concen: 52.195 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 95 Resp: 247053
Ion Ratio Lower Upper
95 100
174 87.4 0.0 167.6
176 85.6 0.0 163.4

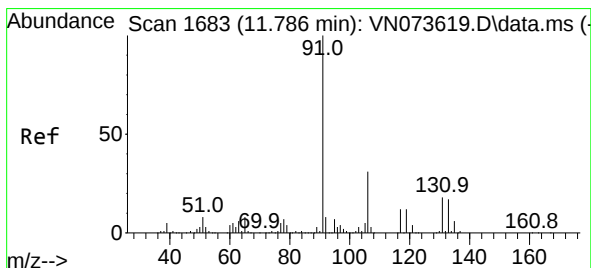
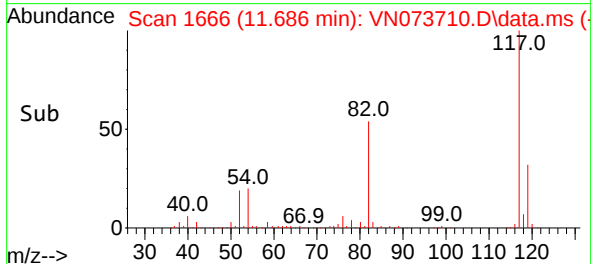
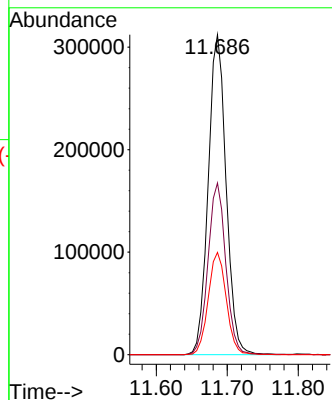
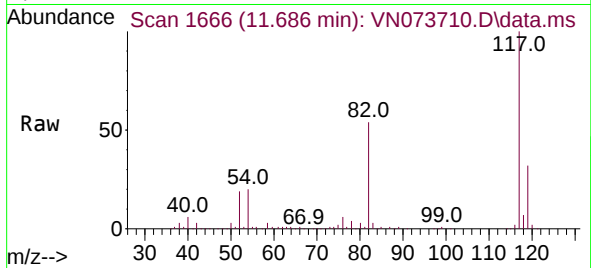




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

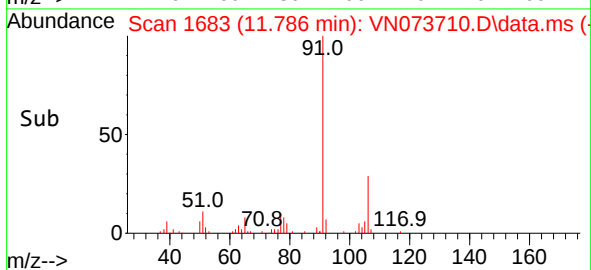
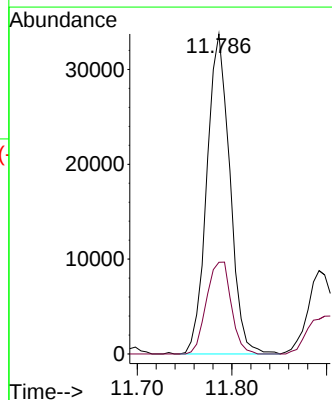
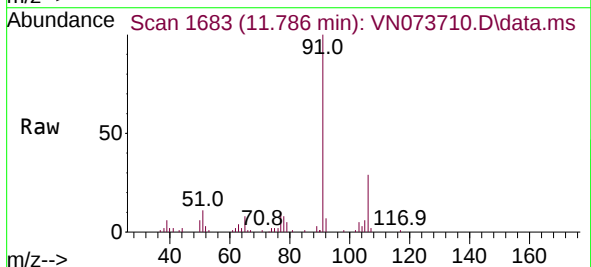
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

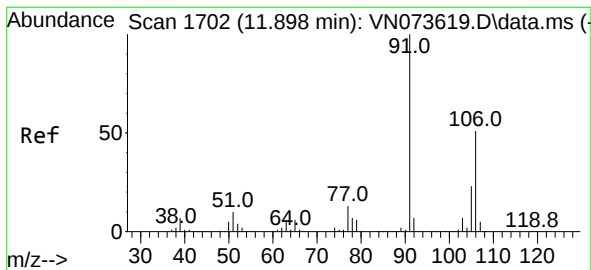
Tgt Ion:117 Resp: 546617
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 32.0 25.4 38.0



#67
Ethyl Benzene
Concen: 2.908 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 91 Resp: 56954
Ion Ratio Lower Upper
91 100
106 28.7 24.9 37.3

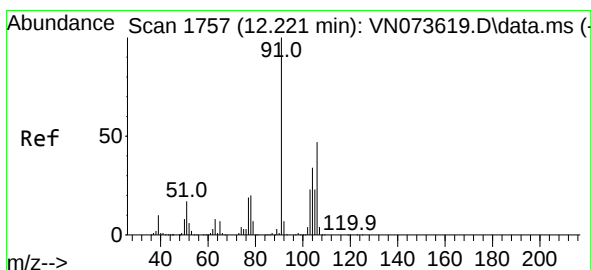
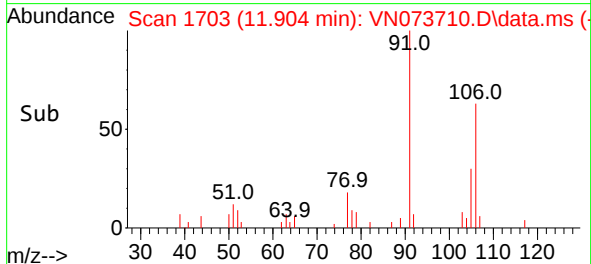
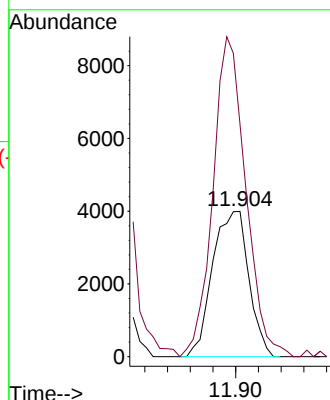
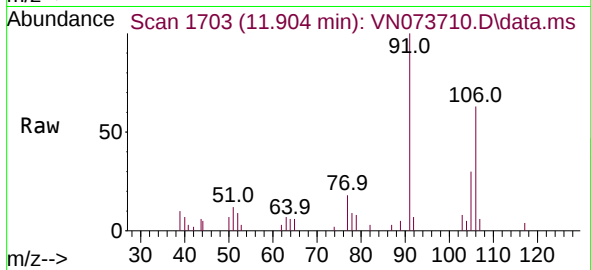




#68
m/p-Xylenes
Concen: 1.181 ug/l
RT: 11.904 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

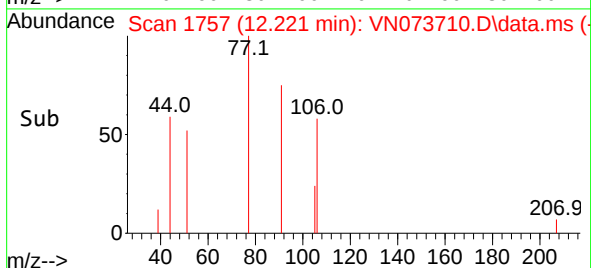
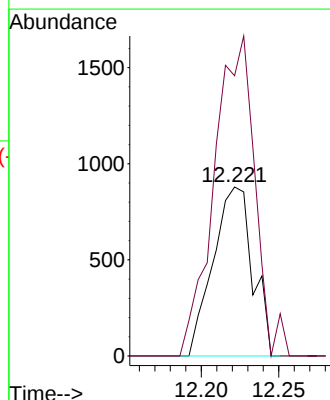
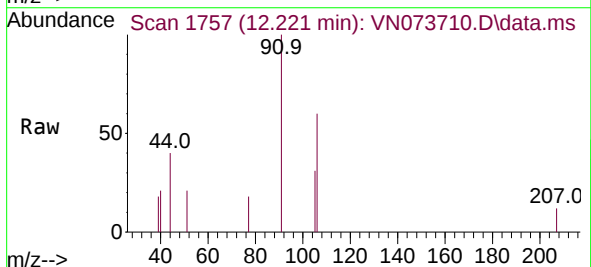
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

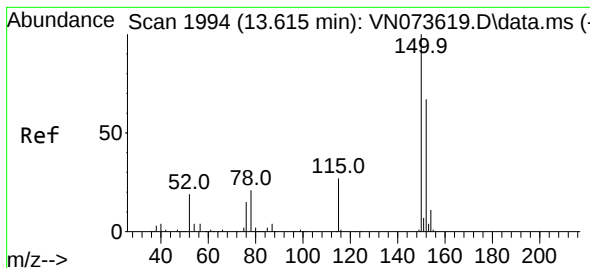
Tgt Ion:106 Resp: 8823
Ion Ratio Lower Upper
106 100
91 199.6 158.9 238.3



#69
o-Xylene
Concen: 0.214 ug/l
RT: 12.221 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion:106 Resp: 1556
Ion Ratio Lower Upper
106 100
91 194.7 106.0 318.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.616 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VN073710.D

Acq: 03 Aug 2022 14:35

Instrument :

MSVOA_N

ClientSampleId :

MW-23R

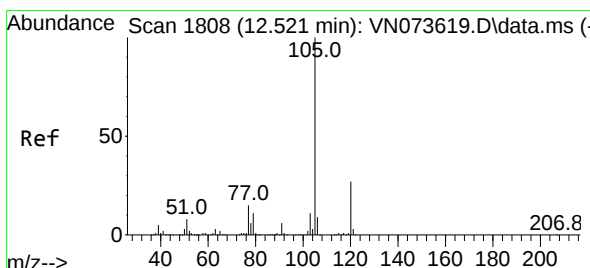
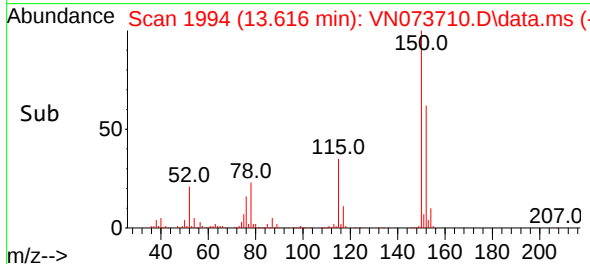
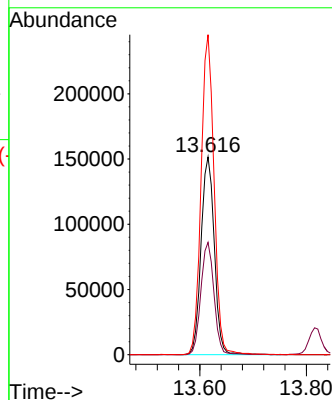
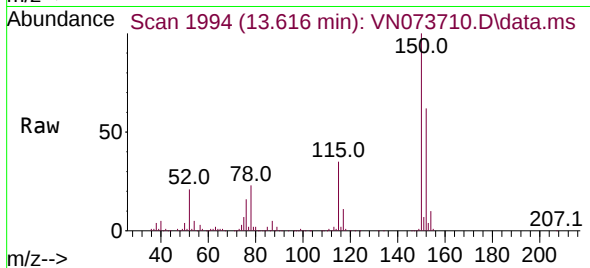
Tgt Ion:152 Resp: 261481

Ion Ratio Lower Upper

152 100

115 56.2 28.9 86.7

150 158.1 0.0 356.2



#73

Isopropylbenzene

Concen: 1.758 ug/l

RT: 12.521 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VN073710.D

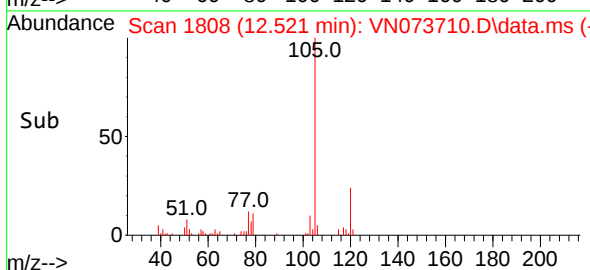
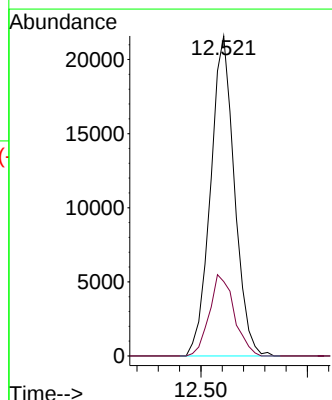
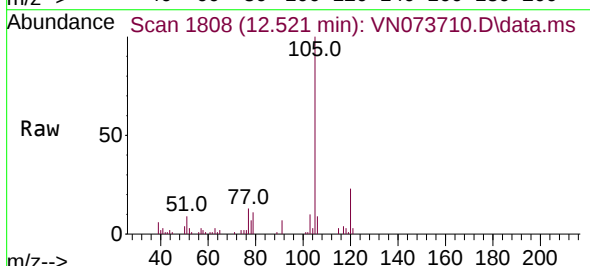
Acq: 03 Aug 2022 14:35

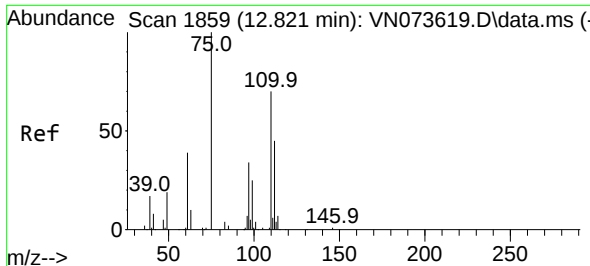
Tgt Ion:105 Resp: 33651

Ion Ratio Lower Upper

105 100

120 26.4 13.5 40.4

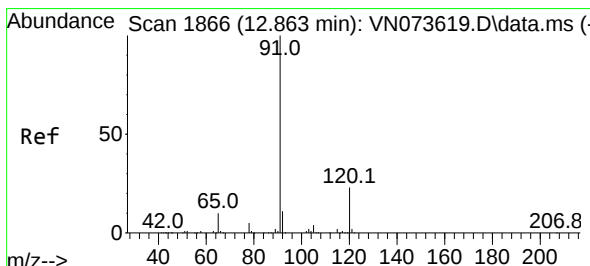
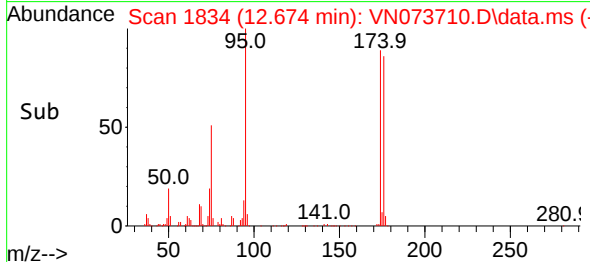
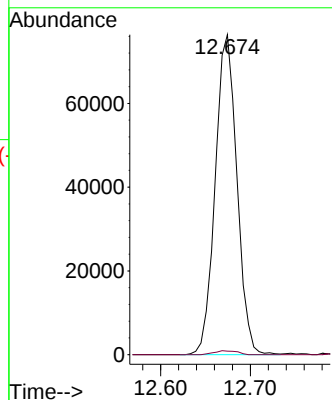
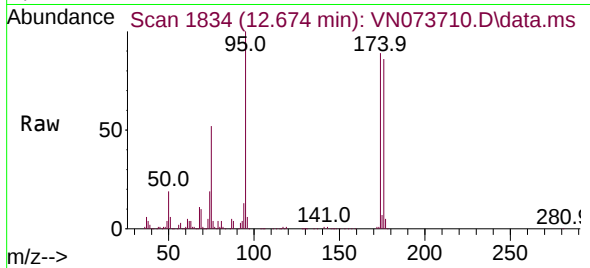




#76
1,2,3-Trichloropropane
Concen: 25.179 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

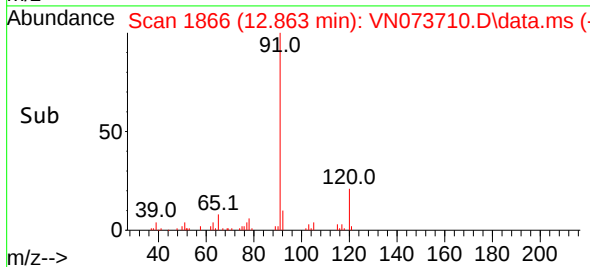
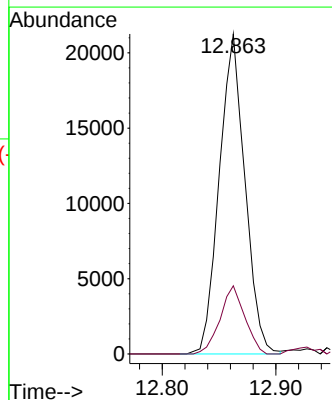
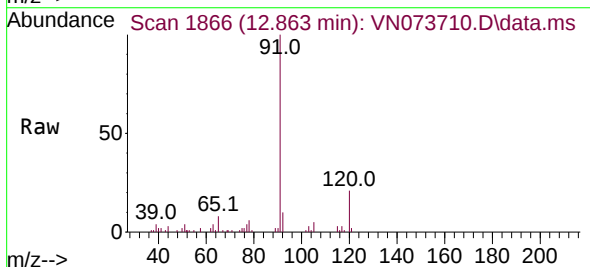
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

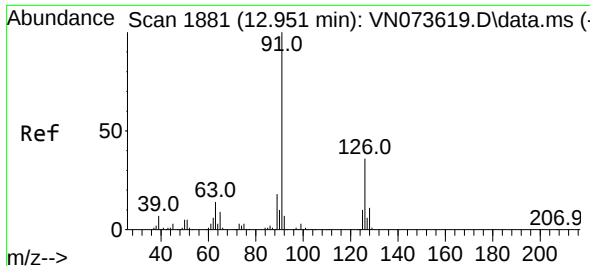
Tgt Ion: 75 Resp: 128277
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#



#78
n-propylbenzene
Concen: 1.548 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 91 Resp: 33337
Ion Ratio Lower Upper
91 100
120 20.5 11.9 35.5

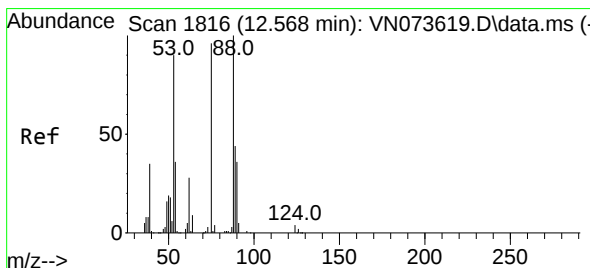
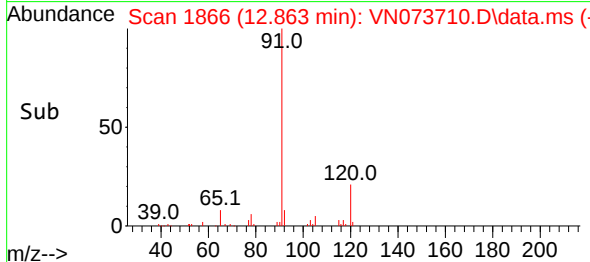
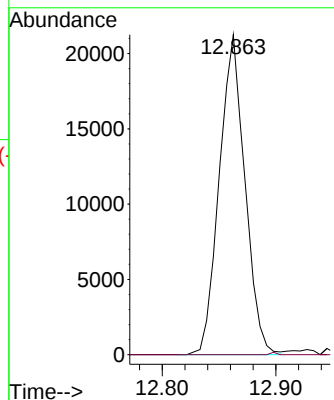
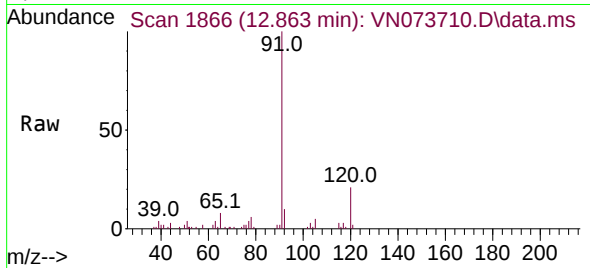




#79
2-Chlorotoluene
Concen: 2.480 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. -0.088 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

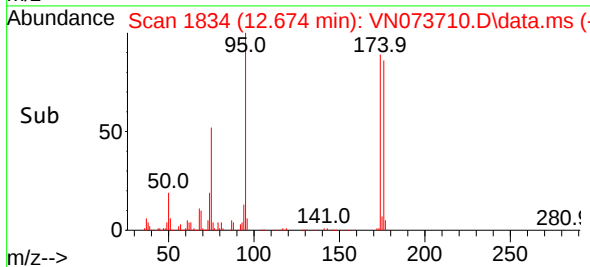
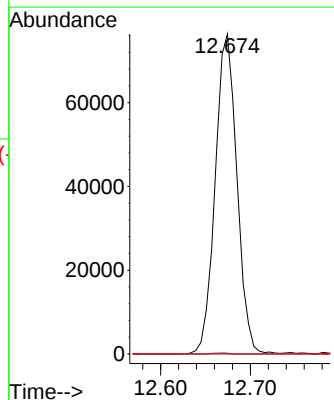
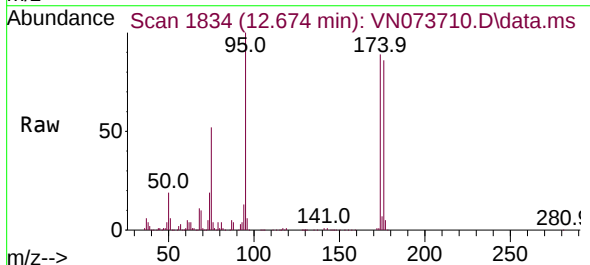
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

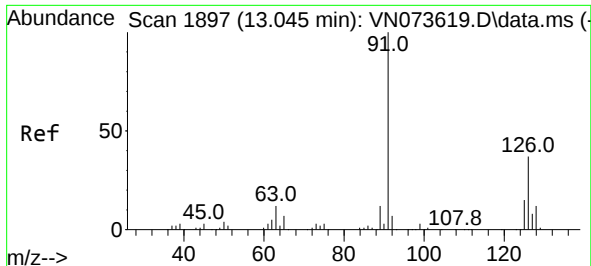
Tgt Ion: 91 Resp: 33337
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.576 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 75 Resp: 128277
Ion Ratio Lower Upper
75 100
53 0.2 78.0 117.0#
89 0.0 37.2 55.8#

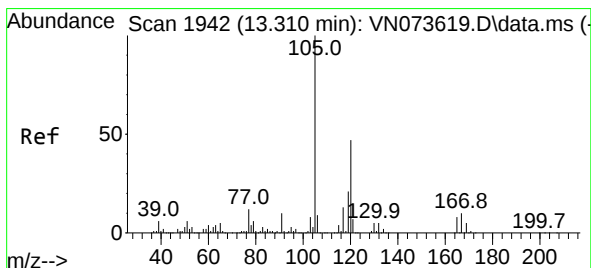
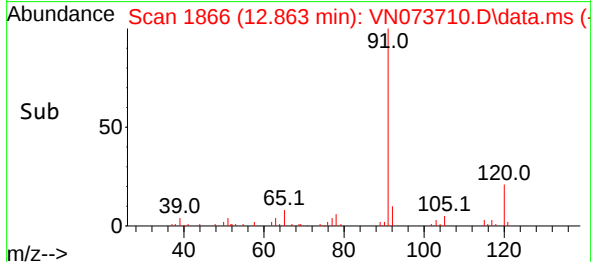
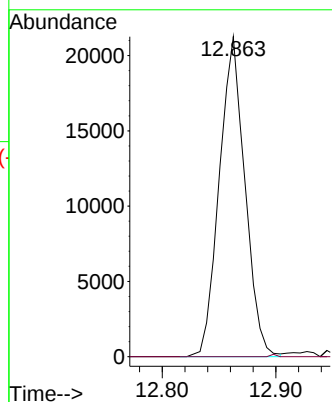
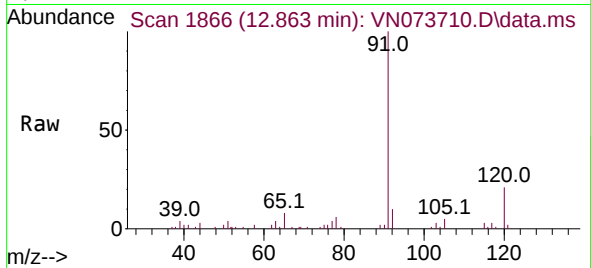




#82
4-Chlorotoluene
Concen: 2.617 ug/l
RT: 12.863 min Scan# 1897
Delta R.T. -0.182 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

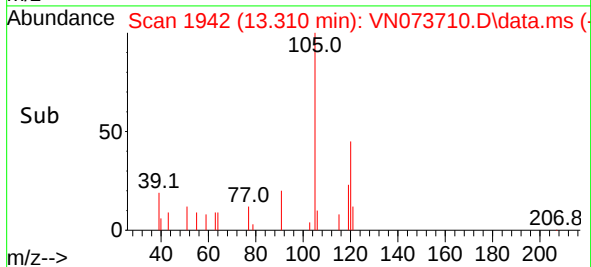
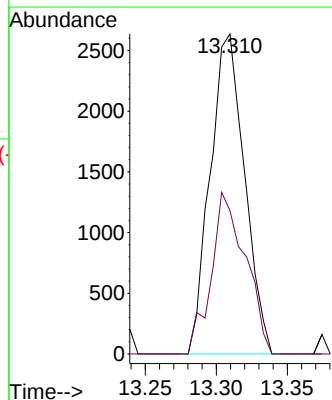
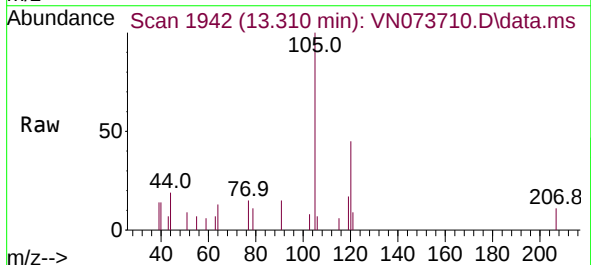
Instrument :
MSVOA_N
ClientSampleId :
MW-23R

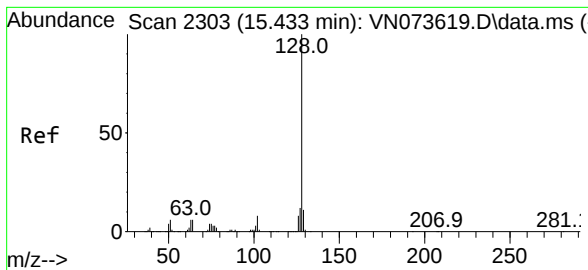
Tgt Ion: 91 Resp: 33337
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#84
1,2,4-Trimethylbenzene
Concen: 0.286 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. 0.000 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Tgt Ion: 105 Resp: 4435
Ion Ratio Lower Upper
105 100
120 50.3 23.3 69.8





#95
Naphthalene
Concen: 0.866 ug/l
RT: 15.439 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN073710.D
Acq: 03 Aug 2022 14:35

Instrument :
MSVOA_N
ClientSampleId :
MW-23R

Tgt Ion:	128	Resp:	12865
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.3	15.5
129	11.5	8.6	13.0

