

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040822\
 Data File : VN071916.D
 Acq On : 08 Apr 2022 15:43
 Operator : JC\MD
 Sample : N2299-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 05:21:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

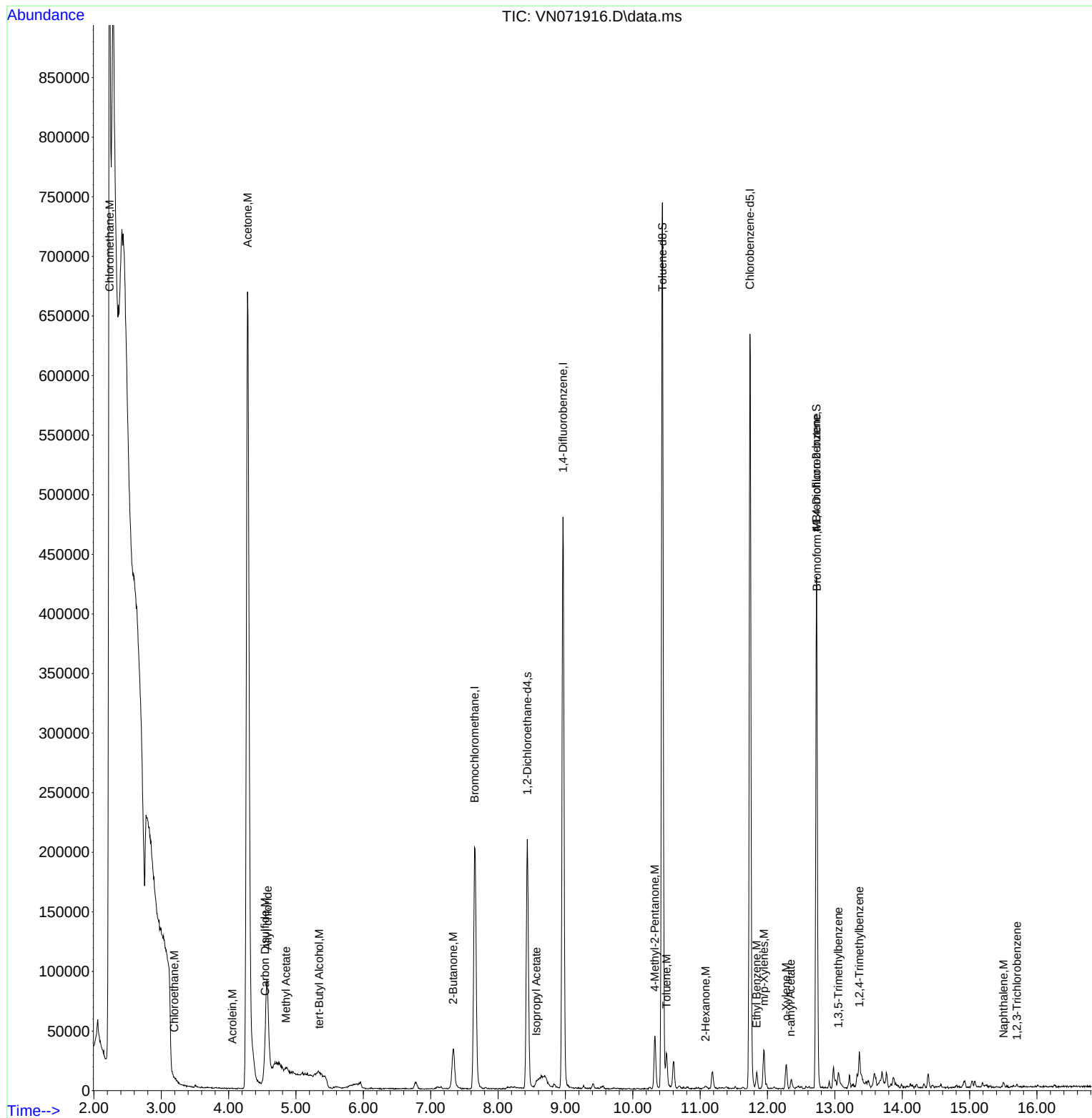
Internal Standards						
1) Bromochloromethane	7.651	128	84357	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	451662	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	401602	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	169750	28.561	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.200%		
60) 4-Bromofluorobenzene	12.727	95	152323	25.580	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.267%		
63) Toluene-d8	10.439	98	539059	29.569	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.567%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.234	50	32843	5.307	ug/l #	40
6) Chloroethane	3.193	64	2583	0.568	ug/l #	52
12) Methyl Acetate	4.851	43	3928	0.570	ug/l	96
13) Acrolein	4.057	56	161	0.220	ug/l #	1
15) Acetone	4.281	58	448458	499.561	ug/l	75
16) Carbon Disulfide	4.540	76	47749	3.753	ug/l	98
17) Allyl chloride	4.581	41	14712	1.856	ug/l	70
23) tert-Butyl Alcohol	5.345	59	1207	1.084	ug/l #	100
30) 2-Butanone	7.333	43	57151	14.044	ug/l	96
44) Isopropyl Acetate	8.569	43	2940	0.232	ug/l #	50
47) n-amyl Acetate	12.345	43	5891	0.698	ug/l #	62
56) Bromoform	12.733	173	1328	0.289	ug/l #	1
58) 4-Methyl-2-Pentanone	10.327	43	31567	4.141	ug/l	97
59) 2-Hexanone	11.080	43	1924	0.346	ug/l	99
62) Toluene	10.498	91	19667	0.808	ug/l	97
66) Ethyl Benzene	11.839	91	9314	0.352	ug/l #	87
67) m/p-Xylenes	11.945	106	11320	1.100	ug/l	88
68) o-Xylene	12.274	106	5841	0.571	ug/l	95
76) 1,3,5-Trimethylbenzene	13.051	105	6198	0.301	ug/l	95
77) t-1,4-Dichloro-2-butene	12.727	75	73188	29.027	ug/l #	8
80) 1,2,4-Trimethylbenzene	13.363	105	19402	0.971	ug/l #	83
91) Naphthalene	15.504	128	4278	7.119	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.704	180	1010	0.225	ug/l	42

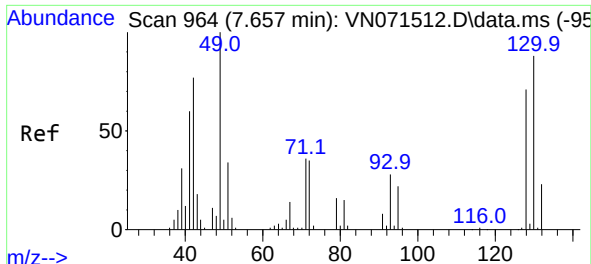
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN071916.D
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ALS Vial : 11 Sample Multiplier: 1

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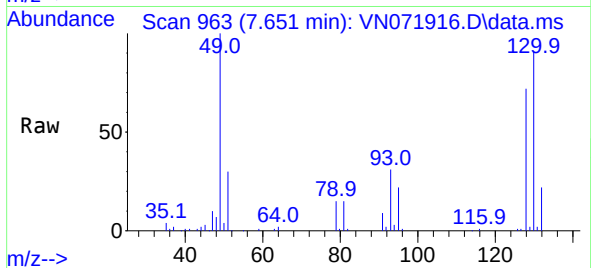
Quant Time: Apr 09 05:21:28 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 24 12:03:44 2022
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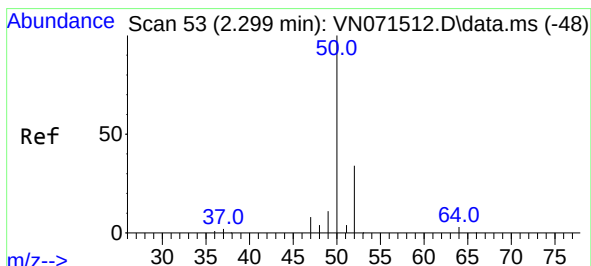
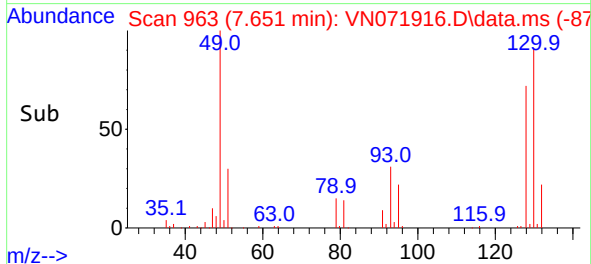
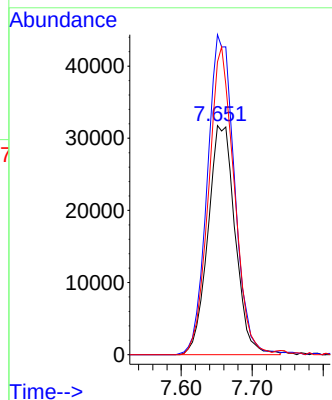


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. -0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :

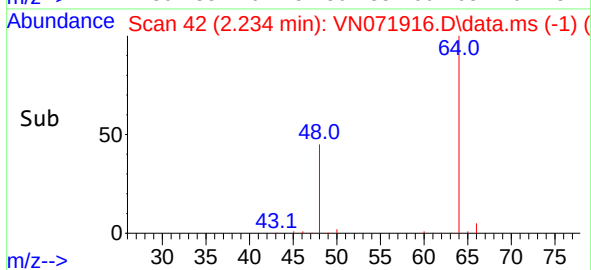
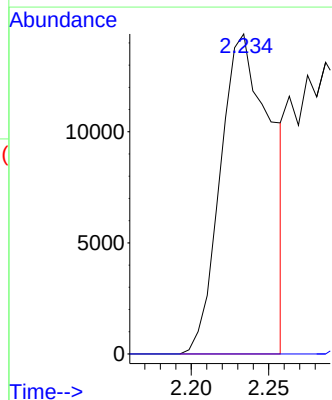
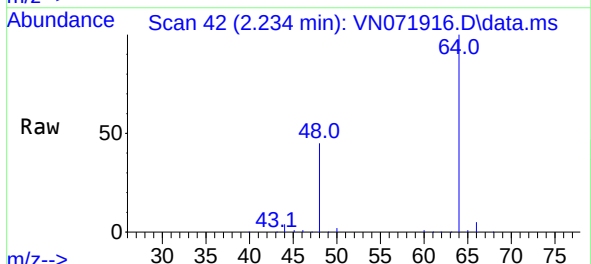


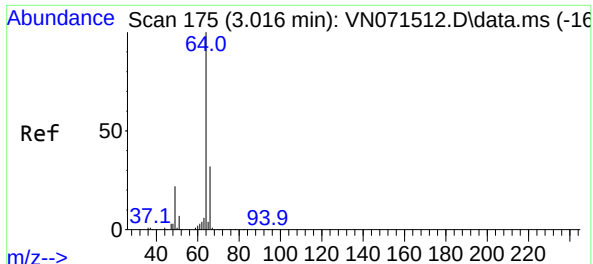
Tgt Ion:128 Resp: 84357
Ion Ratio Lower Upper
128 100
49 138.9 0.0 392.3
130 126.3 0.0 320.2



#3
Chloromethane
Concen: 5.307 ug/l
RT: 2.234 min Scan# 42
Delta R.T. -0.065 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 50 Resp: 32843
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

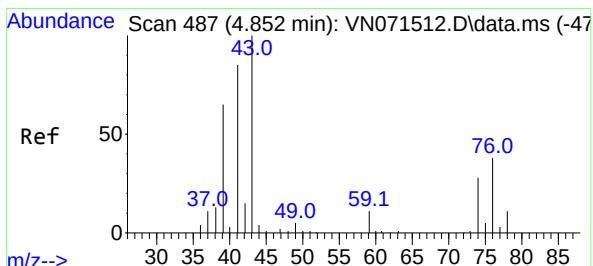
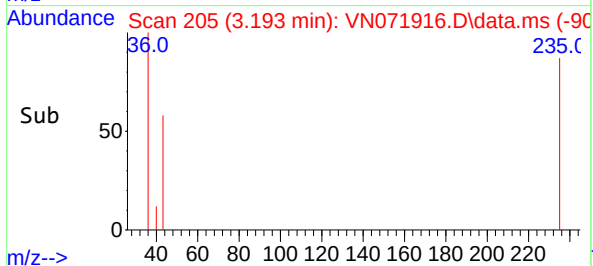
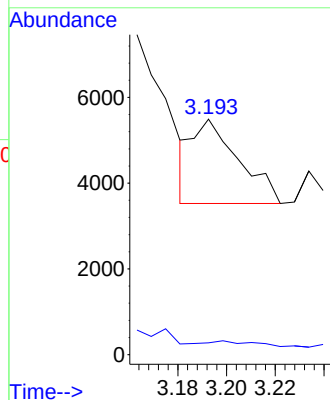
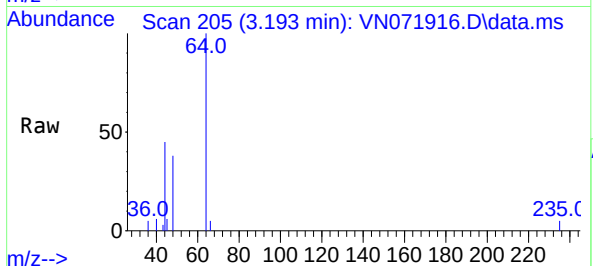




#6
Chloroethane
Concen: 0.568 ug/l
RT: 3.193 min Scan# 205
Delta R.T. 0.176 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

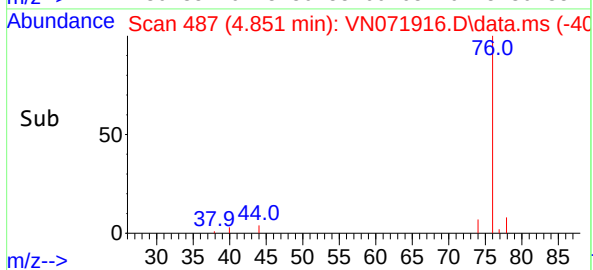
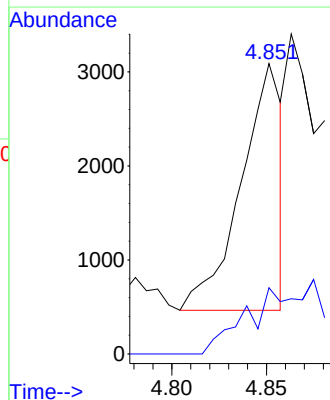
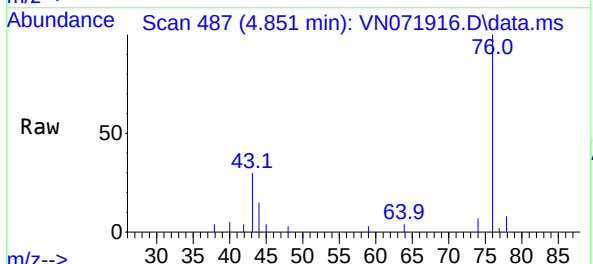
Instrument :
MSVOA_N
ClientSampleId :

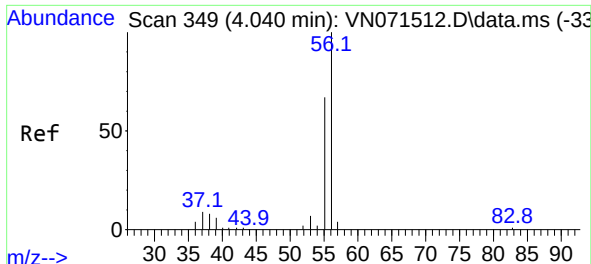
Tgt Ion: 64 Resp: 2583
Ion Ratio Lower Upper
64 100
66 4.4 24.6 36.8#



#12
Methyl Acetate
Concen: 0.570 ug/l
RT: 4.851 min Scan# 487
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 43 Resp: 3928
Ion Ratio Lower Upper
43 100
74 28.0 20.8 31.2

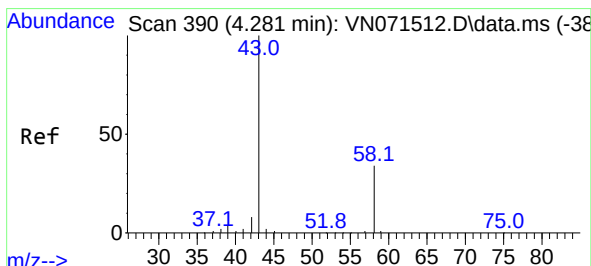
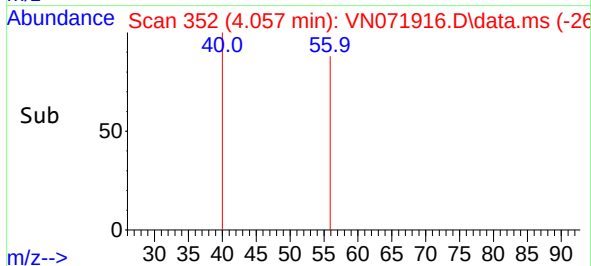
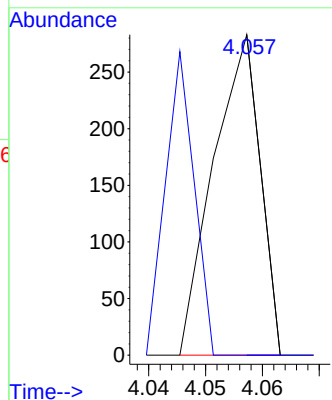
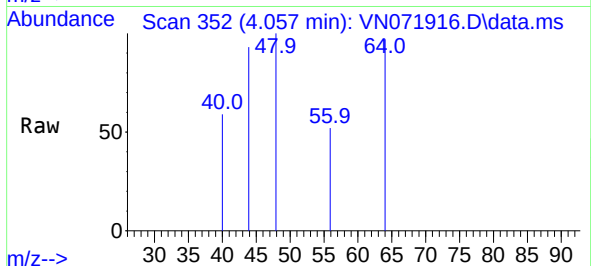




#13
Acrolein
Concen: 0.220 ug/l
RT: 4.057 min Scan# 31
Delta R.T. 0.017 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

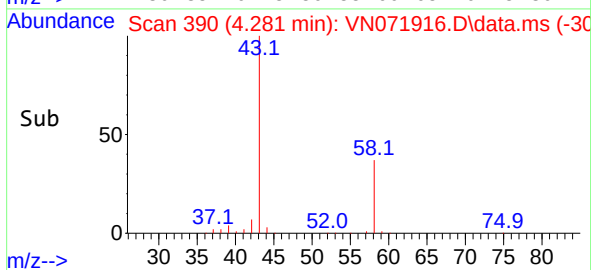
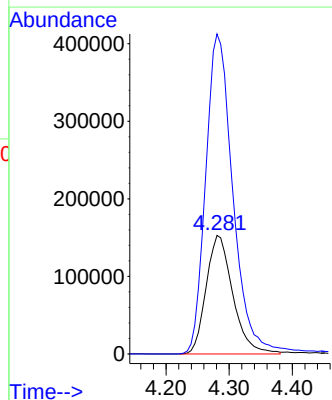
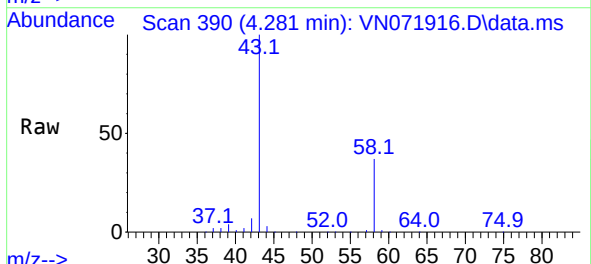
Instrument :
MSVOA_N
ClientSampleId :

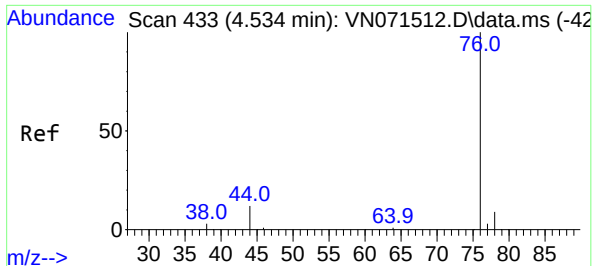
Tgt Ion: 56 Resp: 161
Ion Ratio Lower Upper
56 100
55 931.7 57.6 86.4#



#15
Acetone
Concen: 499.561 ug/l
RT: 4.281 min Scan# 390
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

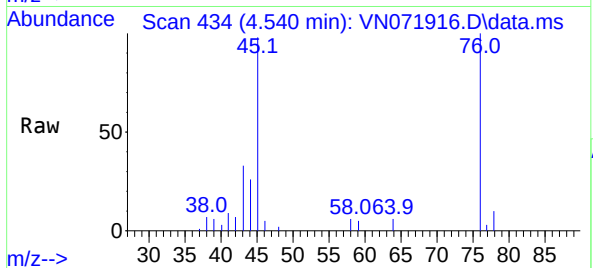
Tgt Ion: 58 Resp: 448458
Ion Ratio Lower Upper
58 100
43 269.6 256.6 384.8



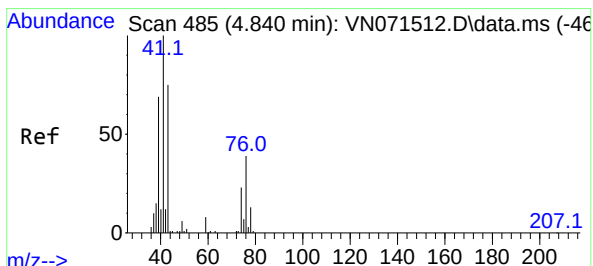
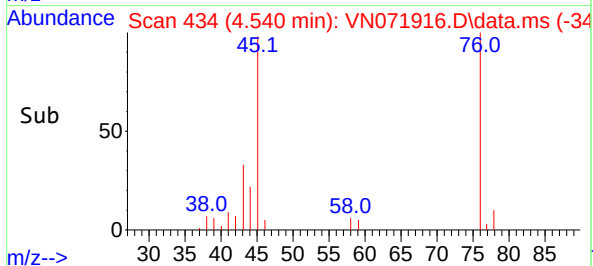
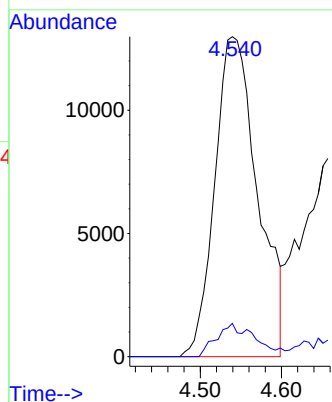


#16
Carbon Disulfide
Concen: 3.753 ug/l
RT: 4.540 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :

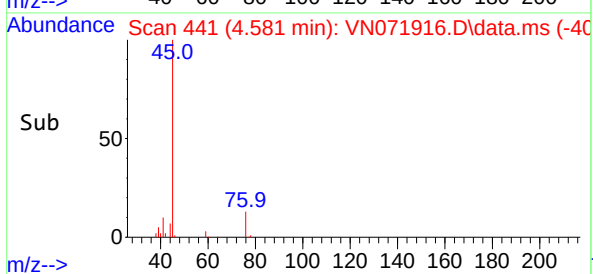
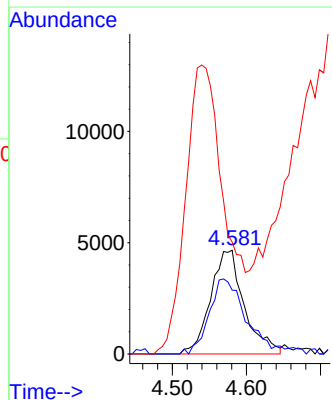
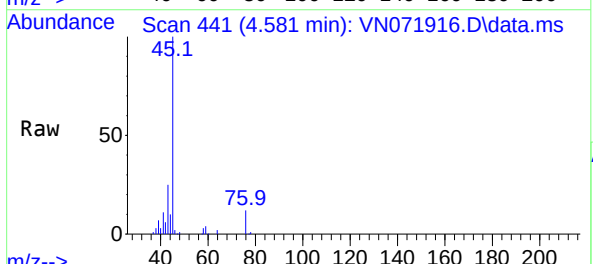


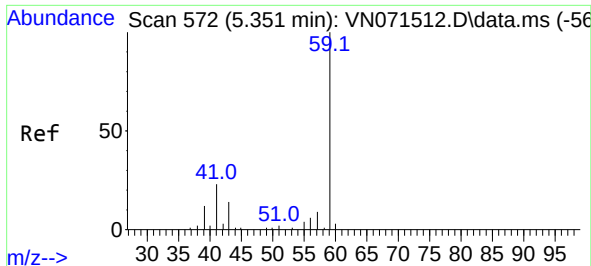
Tgt Ion: 76 Resp: 47749
Ion Ratio Lower Upper
76 100
78 10.4 7.8 11.8



#17
Allyl chloride
Concen: 1.856 ug/l
RT: 4.581 min Scan# 441
Delta R.T. -0.259 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 41 Resp: 14712
Ion Ratio Lower Upper
41 100
39 61.5 44.6 134.0
76 20.2 19.6 58.7

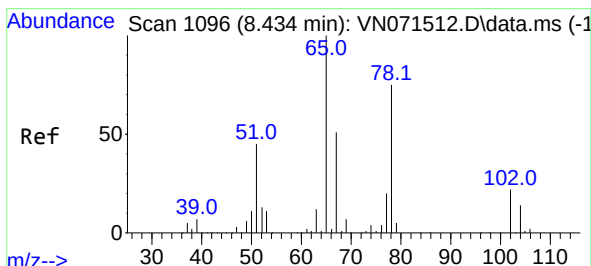
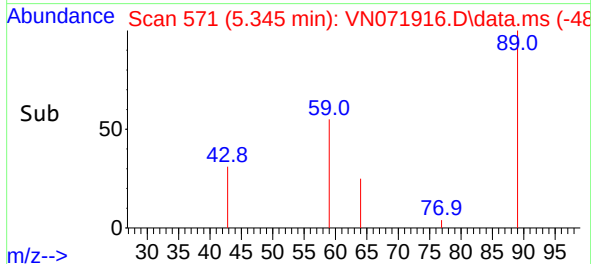
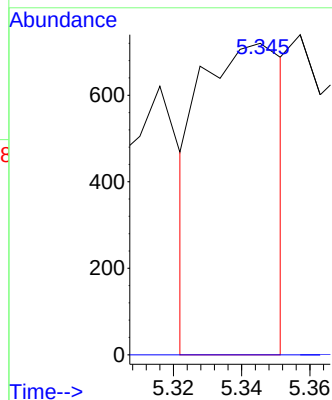
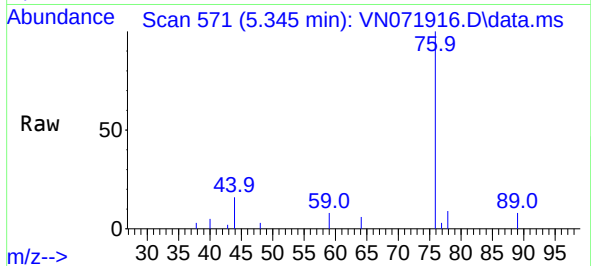




#23
tert-Butyl Alcohol
Concen: 1.084 ug/l
RT: 5.345 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

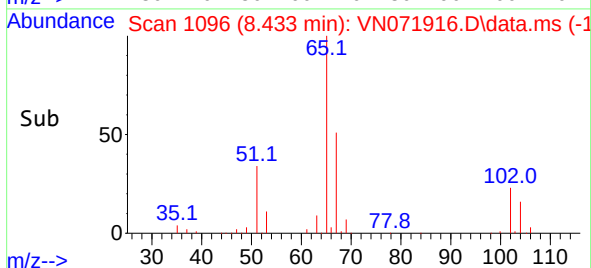
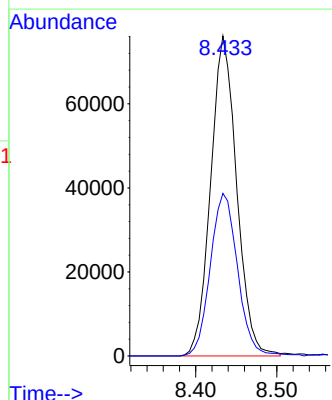
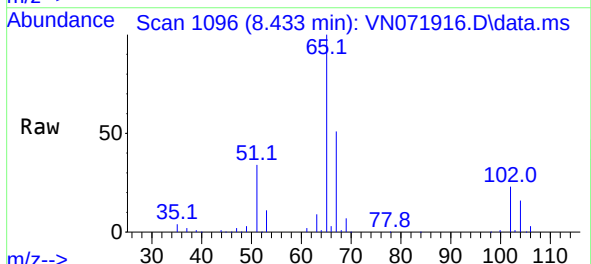
Instrument :
MSVOA_N
ClientSampleId :

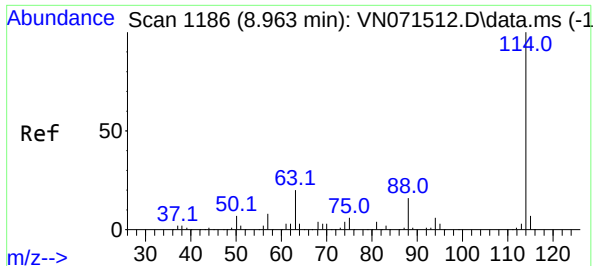
Tgt Ion: 59 Resp: 1207
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 28.561 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

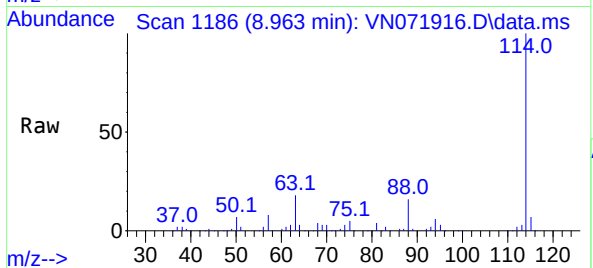
Tgt Ion: 65 Resp: 169750
Ion Ratio Lower Upper
65 100
67 53.3 40.2 60.2



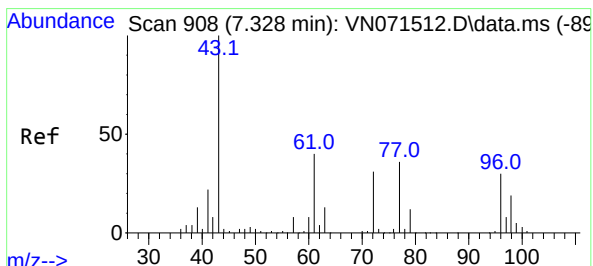
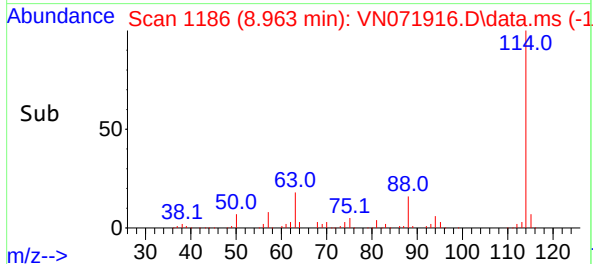
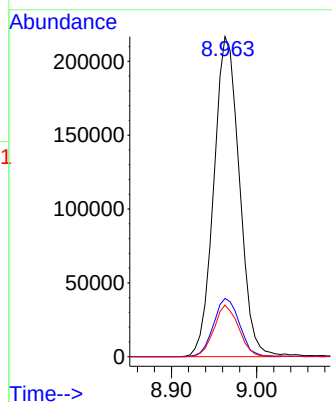


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :

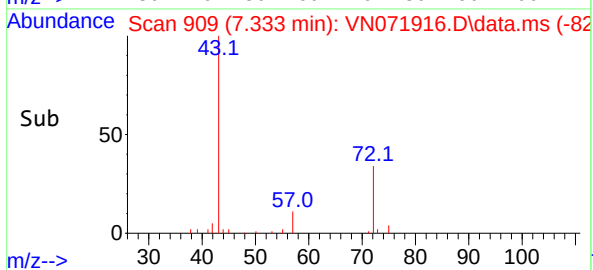
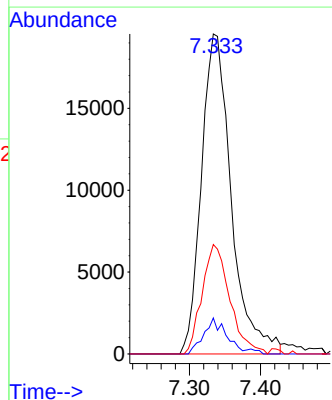
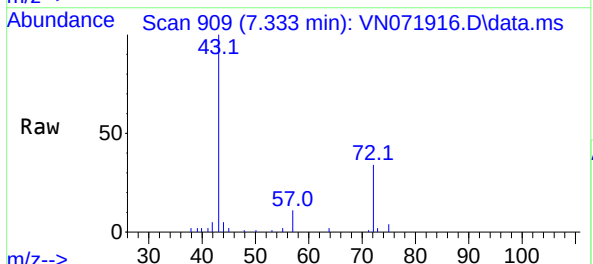


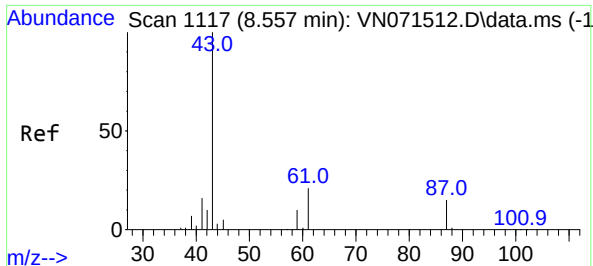
Tgt Ion:114 Resp: 451662
Ion Ratio Lower Upper
114 100
63 18.6 15.8 23.6
88 15.5 11.6 17.4



#30
2-Butanone
Concen: 14.044 ug/l
RT: 7.333 min Scan# 909
Delta R.T. 0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 43 Resp: 57151
Ion Ratio Lower Upper
43 100
57 8.4 6.7 10.1
72 31.7 23.2 34.8

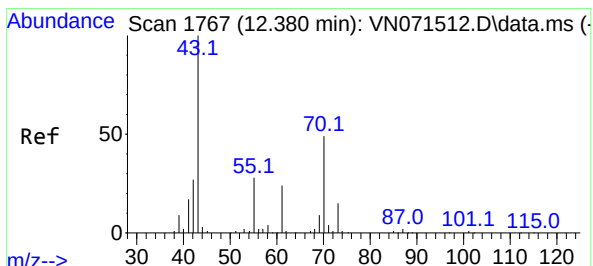
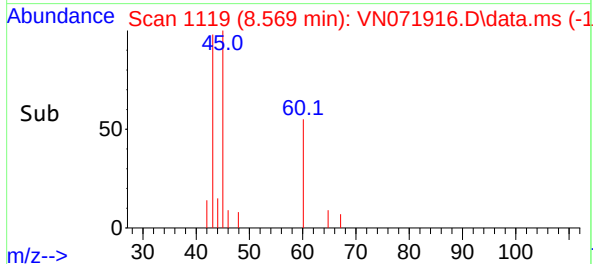
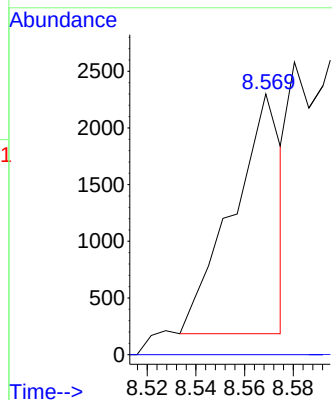
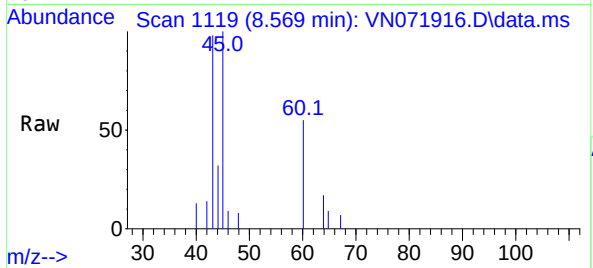




#44
Isopropyl Acetate
Concen: 0.232 ug/l
RT: 8.569 min Scan# 1119
Delta R.T. 0.012 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

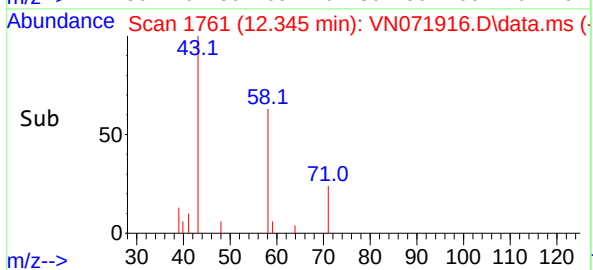
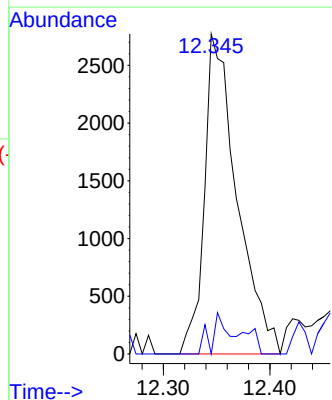
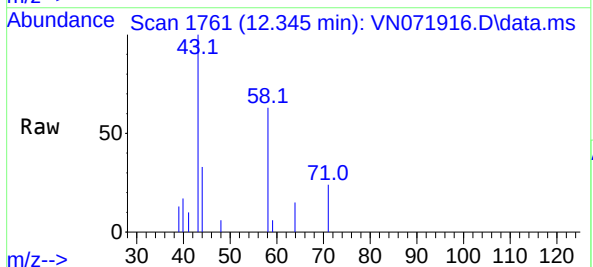
Instrument :
MSVOA_N
ClientSampleId :

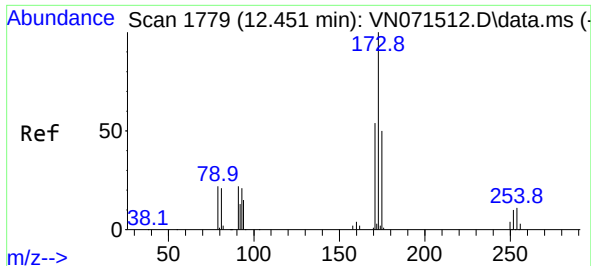
Tgt Ion: 43 Resp: 2940
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#



#47
n-amy1 Acetate
Concen: 0.698 ug/l
RT: 12.345 min Scan# 1761
Delta R.T. -0.036 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

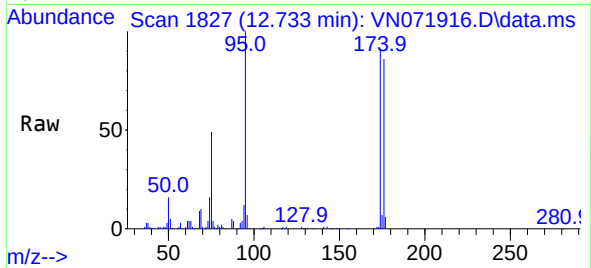
Tgt Ion: 43 Resp: 5891
Ion Ratio Lower Upper
43 100
55 5.3 19.0 28.6#



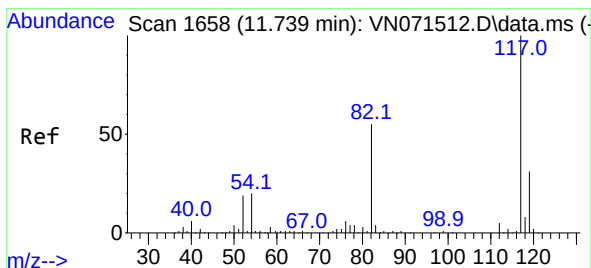
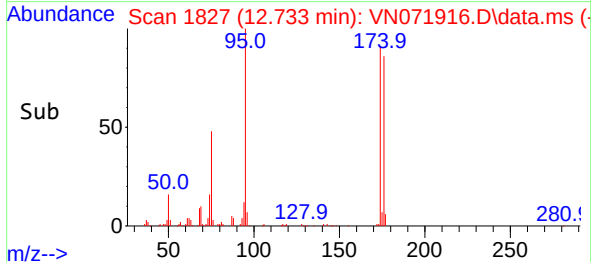
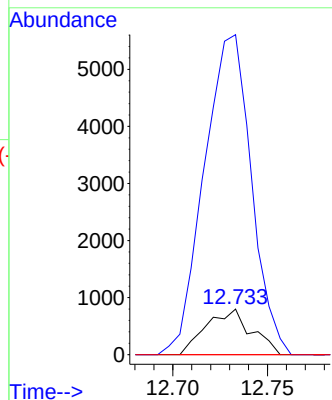


#56
Bromoform
Concen: 0.289 ug/l
RT: 12.733 min Scan# 1827
Delta R.T. 0.282 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :

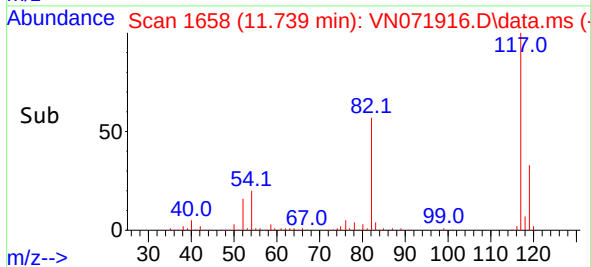
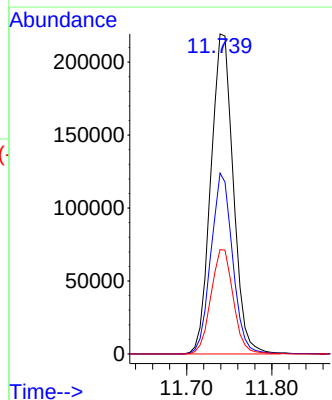
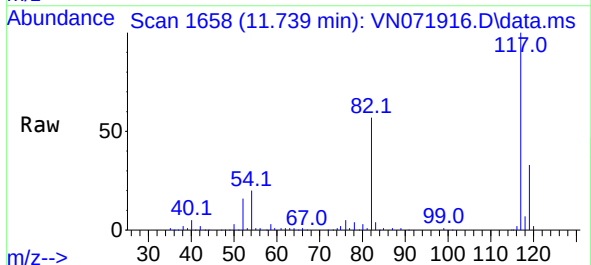


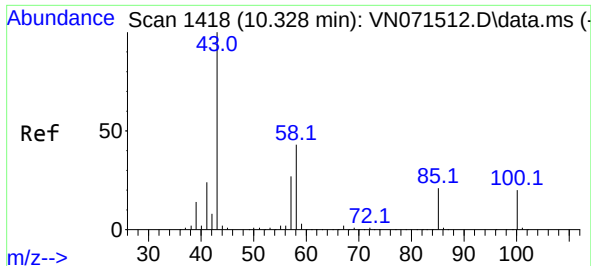
Tgt Ion:173 Resp: 1328
Ion Ratio Lower Upper
173 100
175 732.3 38.6 58.0#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

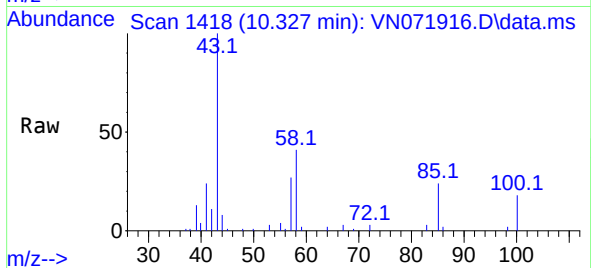
Tgt Ion:117 Resp: 401602
Ion Ratio Lower Upper
117 100
82 54.8 43.6 65.4
119 32.5 25.8 38.6





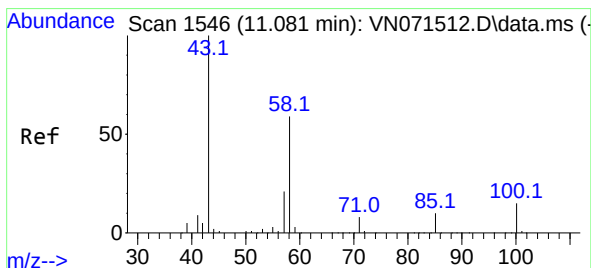
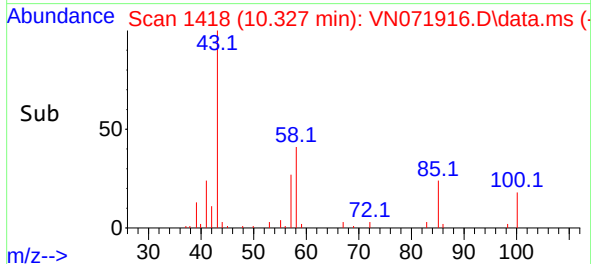
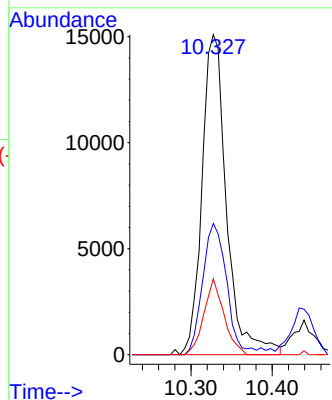
#58
4-Methyl-2-Pentanone
Concen: 4.141 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 43 Resp: 31567

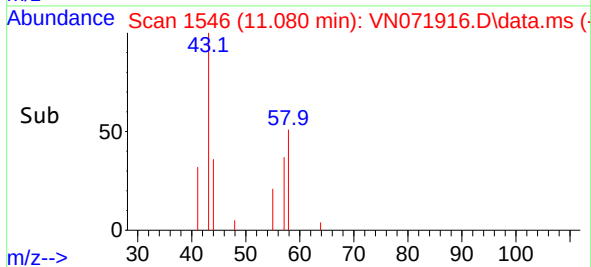
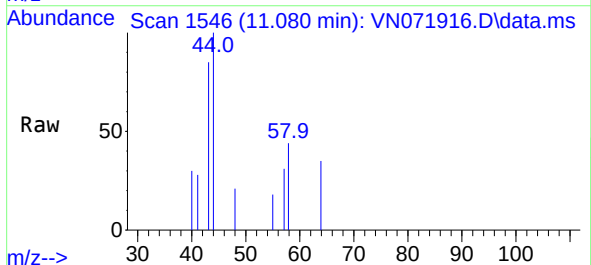
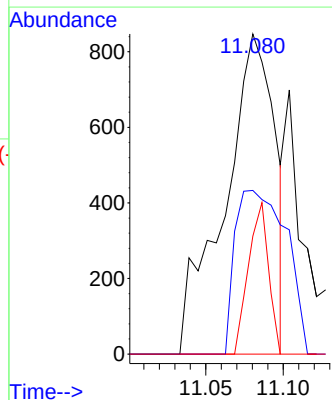
Ion	Ratio	Lower	Upper
43	100		
58	39.6	30.0	45.0
85	19.5	15.0	22.6

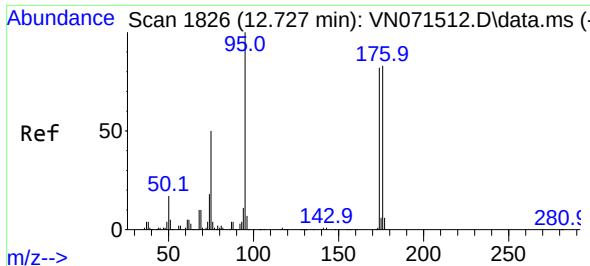


#59
2-Hexanone
Concen: 0.346 ug/l
RT: 11.080 min Scan# 1546
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 43 Resp: 1924

Ion	Ratio	Lower	Upper
43	100		
58	51.8	42.2	63.2
57	18.8	15.0	22.4

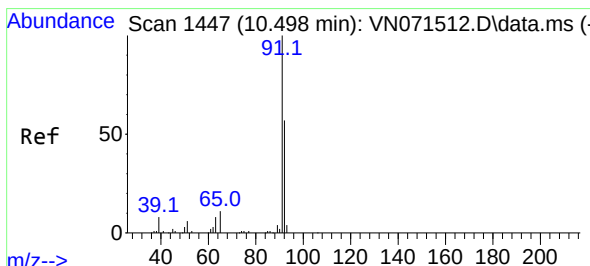
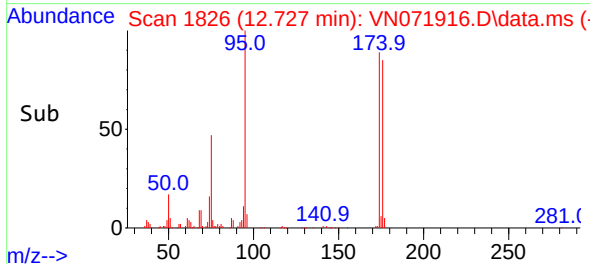
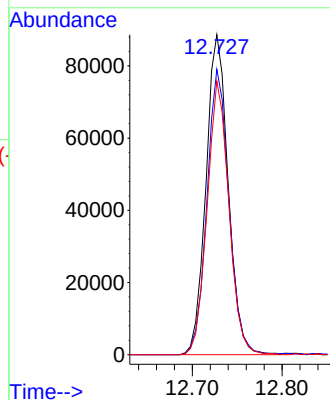
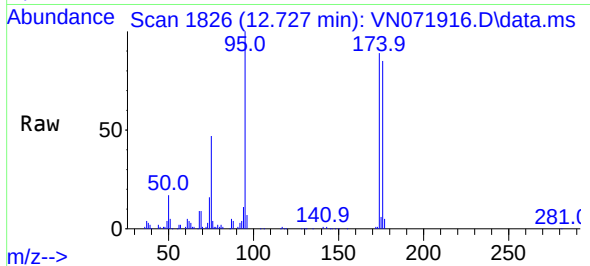




#60
4-Bromofluorobenzene
Concen: 25.580 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

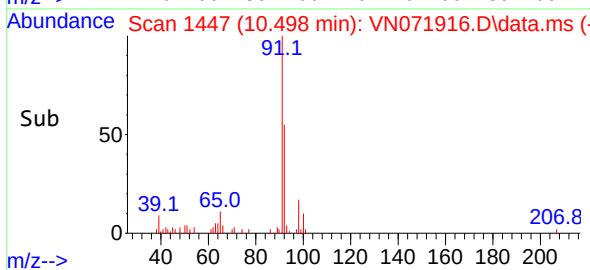
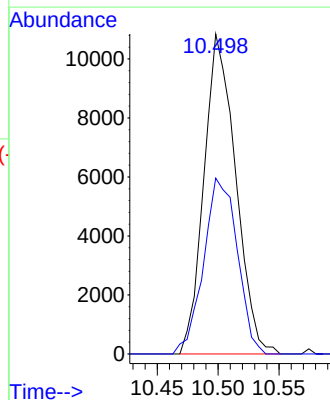
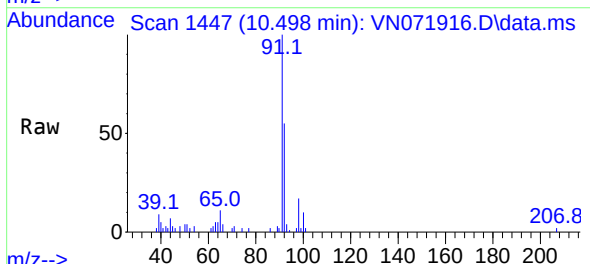
Instrument :
MSVOA_N
ClientSampleId :

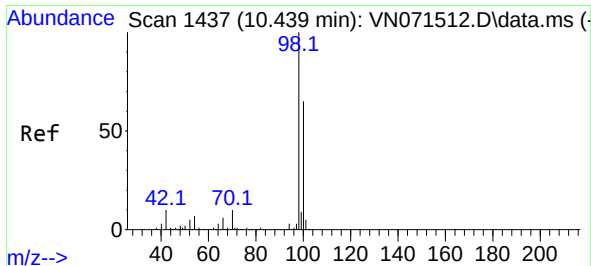
Tgt Ion: 95 Resp: 152323
Ion Ratio Lower Upper
95 100
174 88.5 62.9 94.3
176 83.6 61.0 91.4



#62
Toluene
Concen: 0.808 ug/l
RT: 10.498 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 91 Resp: 19667
Ion Ratio Lower Upper
91 100
92 58.2 44.6 67.0

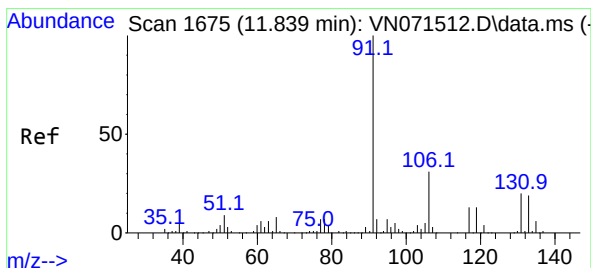
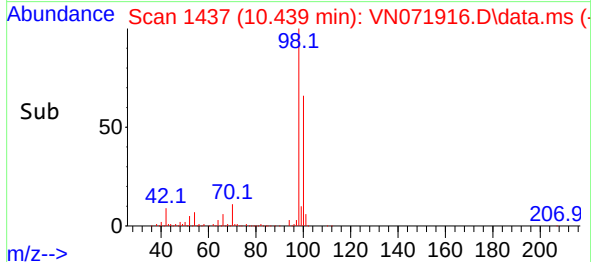
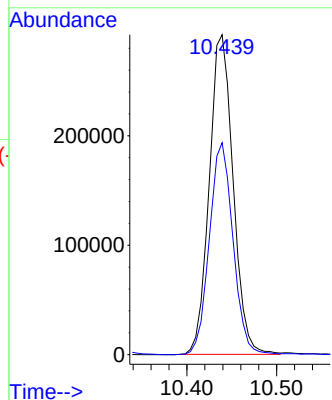
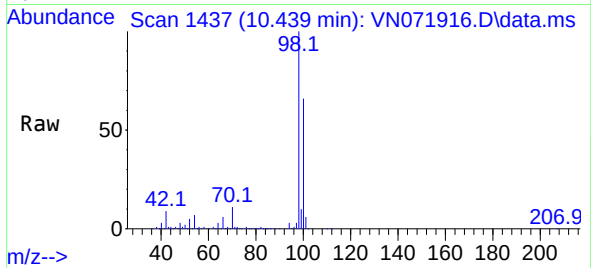




#63
Toluene-d8
Concen: 29.569 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

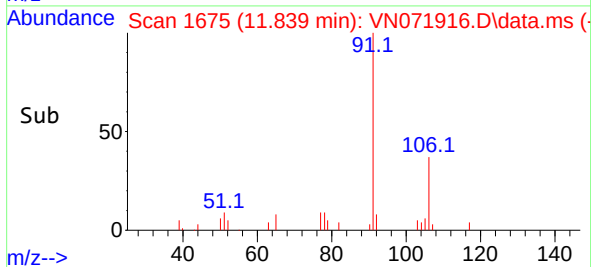
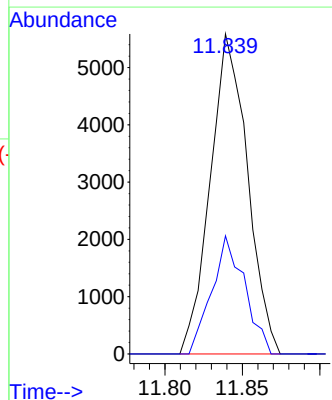
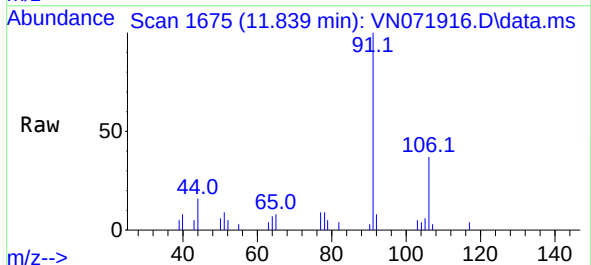
Instrument :
MSVOA_N
ClientSampleId :

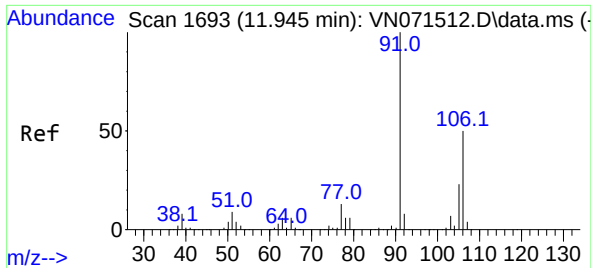
Tgt Ion: 98 Resp: 539059
Ion Ratio Lower Upper
98 100
100 65.8 50.6 76.0



#66
Ethyl Benzene
Concen: 0.352 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion: 91 Resp: 9314
Ion Ratio Lower Upper
91 100
106 36.9 24.0 36.0#

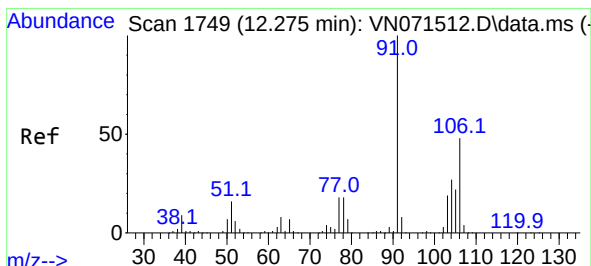
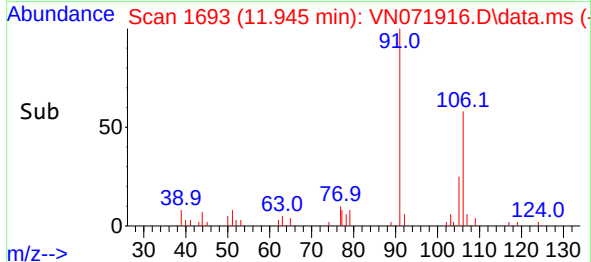
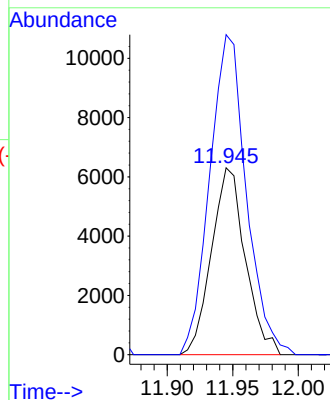
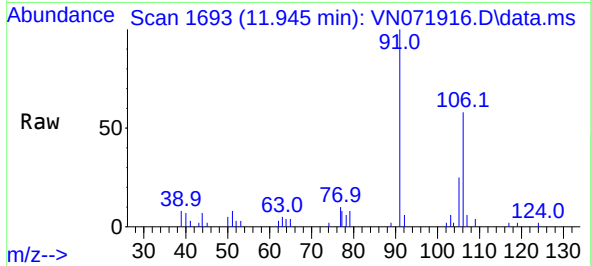




#67
m/p-Xylenes
Concen: 1.100 ug/l
RT: 11.945 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

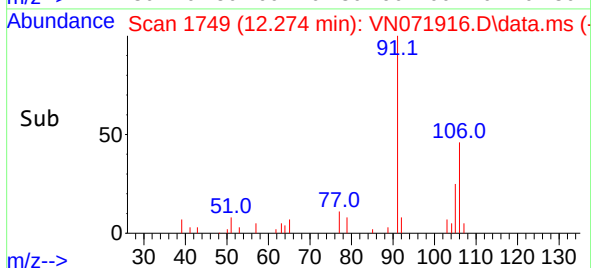
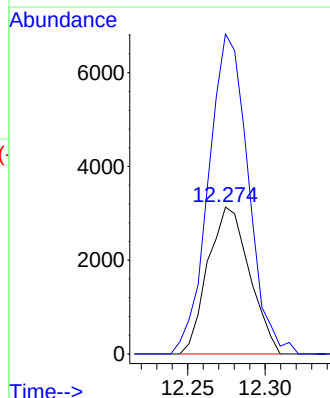
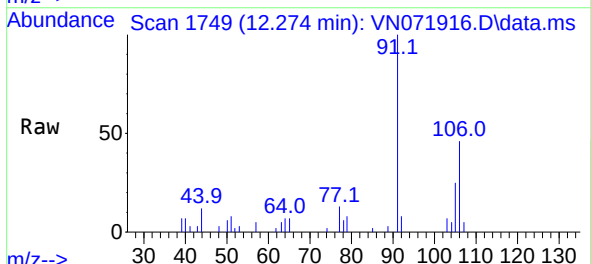
Instrument :
MSVOA_N
ClientSampleId :

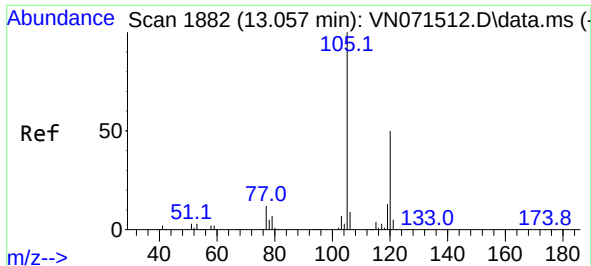
Tgt Ion:106 Resp: 11320
Ion Ratio Lower Upper
106 100
91 185.1 162.9 244.3



#68
o-Xylene
Concen: 0.571 ug/l
RT: 12.274 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Tgt Ion:106 Resp: 5841
Ion Ratio Lower Upper
106 100
91 208.0 107.7 323.1

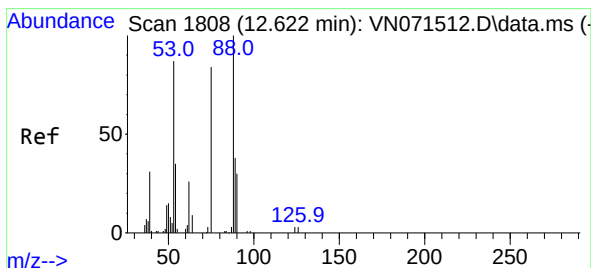
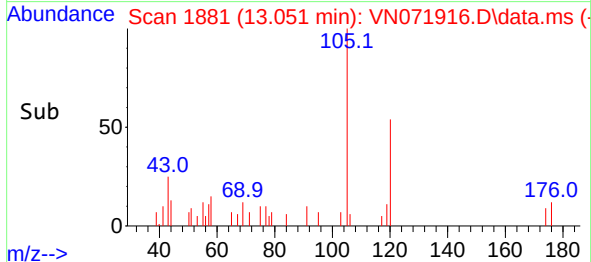
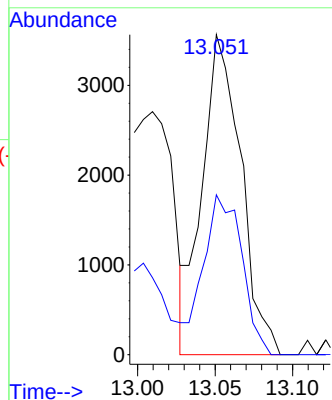
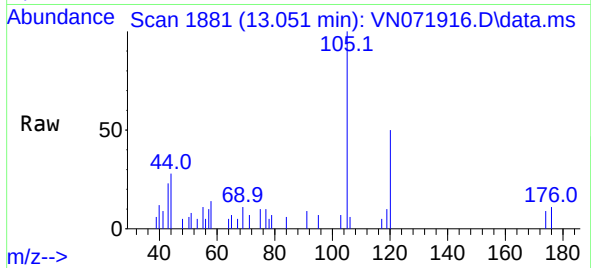




#76
1,3,5-Trimethylbenzene
Concen: 0.301 ug/l
RT: 13.051 min Scan# 1881
Delta R.T. -0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

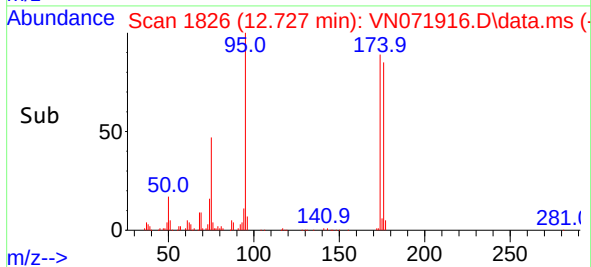
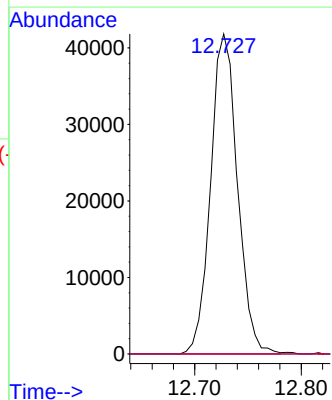
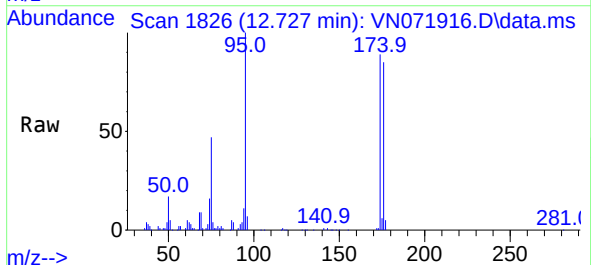
Instrument :
MSVOA_N
ClientSampleId :

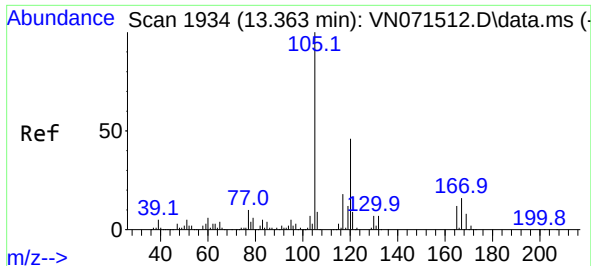
Tgt Ion:105 Resp: 6198
Ion Ratio Lower Upper
105 100
120 50.1 0.0 93.8



#77
t-1,4-Dichloro-2-butene
Concen: 29.027 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

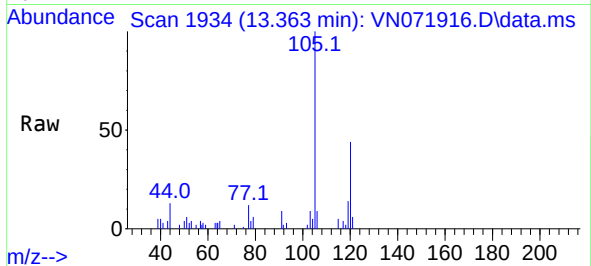
Tgt Ion: 75 Resp: 73188
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



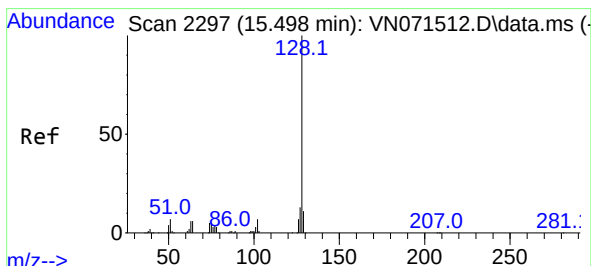
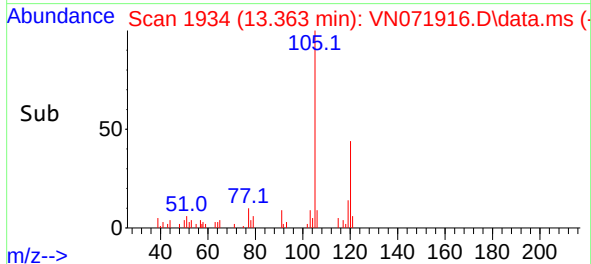
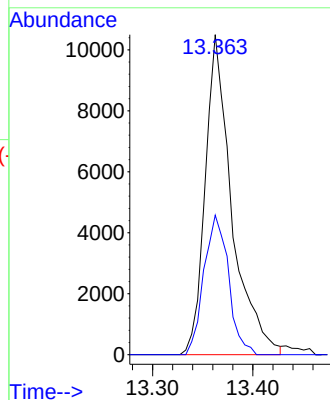


#80
1,2,4-Trimethylbenzene
Concen: 0.971 ug/l
RT: 13.363 min Scan# 1934
Delta R.T. -0.000 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

Instrument :
MSVOA_N
ClientSampleId :

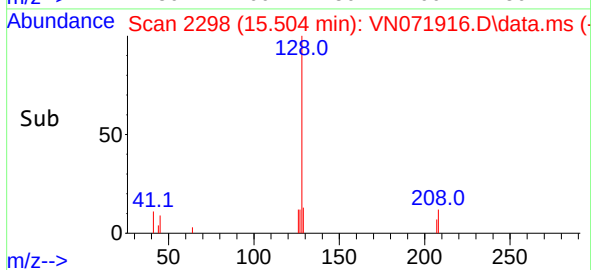
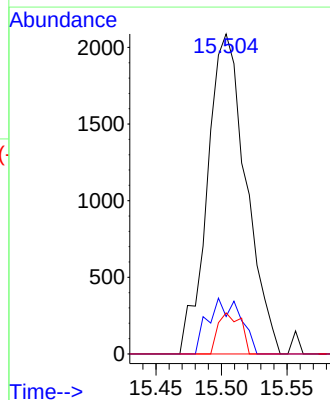
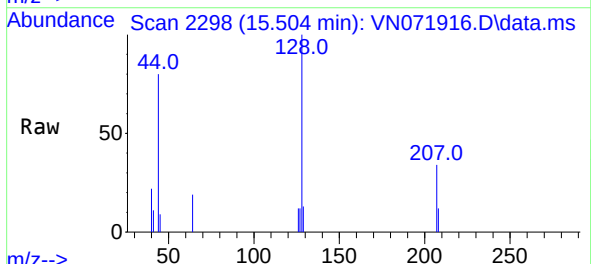


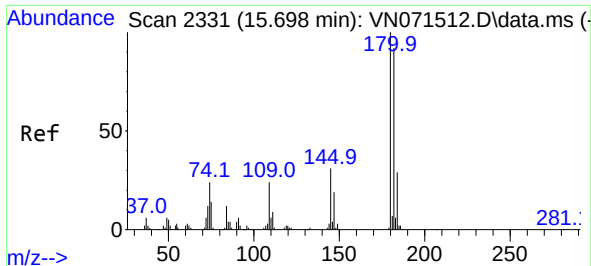
Tgt Ion:105 Resp: 19402
Ion Ratio Lower Upper
105 100
120 40.1 0.0 0.2#



#91
Naphthalene
Concen: 7.119 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.006 min
Lab File: VN071916.D
Acq: 08 Apr 2022 15:43

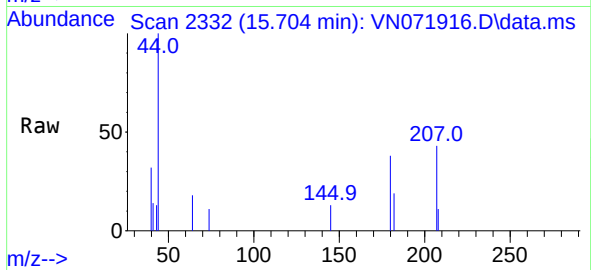
Tgt Ion:128 Resp: 4278
Ion Ratio Lower Upper
128 100
127 14.6 10.7 16.1
129 7.6 9.0 13.6#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.225 ug/l
 RT: 15.704 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN071916.D
 Acq: 08 Apr 2022 15:43

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1010
Ion	Ratio	Lower	Upper
180	100		
182	19.5	0.0	190.0
145	32.1	0.0	67.8

