

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\
 Data File : VN061333.D
 Acq On : 7 May 2020 14:57
 Operator : JC/MD
 Sample : L2498-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 02:27:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

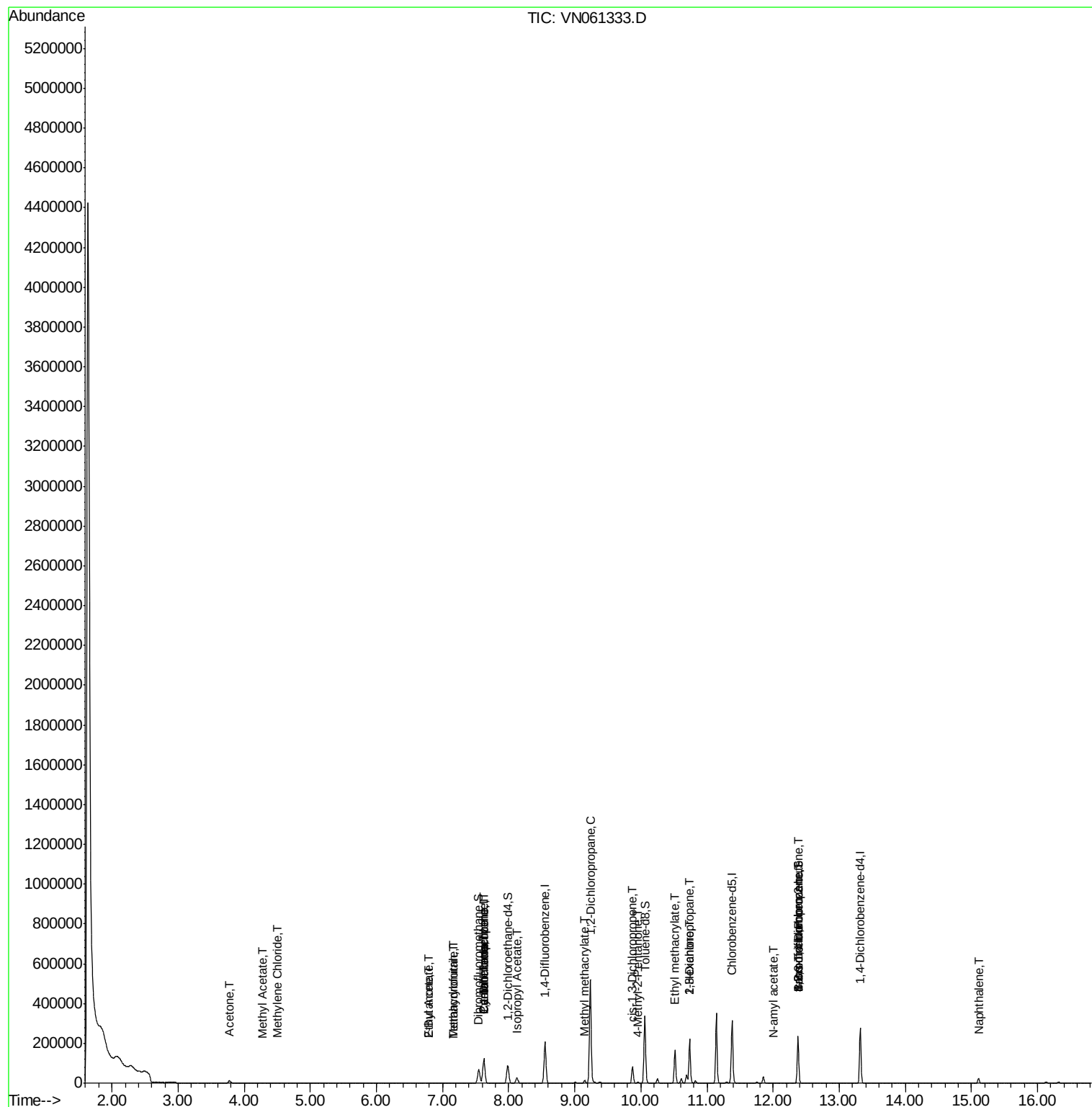
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	92797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	170062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	166557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	68592	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	78508	53.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.94%	
35) Dibromofluoromethane	7.55	113	51738	51.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.90%	
50) Toluene-d8	10.06	98	216177	52.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.38	95	78564	50.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.86%	
Target Compounds						
					Qvalue	
16) Acetone	3.77	43	20842	31.882	ug/l	98
18) Methyl Acetate	4.29	43	1195	1.315	ug/l #	55
20) Methylene Chloride	4.50	84	1423	1.243	ug/l #	95
25) 2-Butanone	6.79	43	2050	2.359	ug/l #	53
29) Tetrahydrofuran	7.18	42	382	0.653	ug/l #	37
31) Cyclohexane	7.62	56	2494	1.168	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	8288	4.868	ug/l #	50
37) Ethyl Acetate	6.79	43	2050	1.027	ug/l #	71
38) Carbon Tetrachloride	7.63	117	9807	8.312	ug/l #	16
41) Methacrylonitrile	7.17	41	210	0.253	ug/l #	100
43) Isopropyl Acetate	8.12	43	33101	9.994	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	446	0.329	ug/l #	44
48) Methyl methacrylate	9.14	41	1725	1.154	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	4732	2.427	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	13091	6.103	ug/l #	66
56) Ethyl methacrylate	10.51	69	524	2.960	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2087	0.974	ug/l #	43
59) 2-Hexanone	10.74	43	34108	24.047	ug/l #	53
71) Bromoform	12.38	173	194	0.223	ug/l #	1
74) N-amyl acetate	12.00	43	1657	0.649	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	43885	30.347	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	43885	77.066	ug/l #	8
95) Naphthalene	15.11	128	18726	4.596	ug/l	100

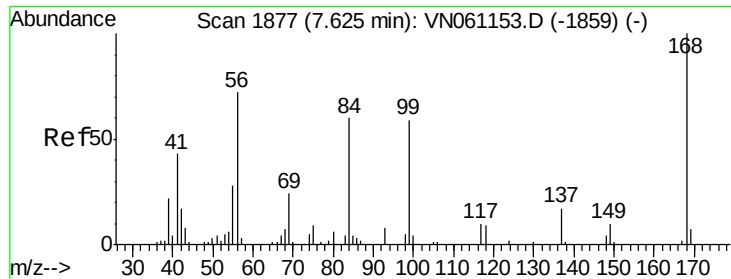
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

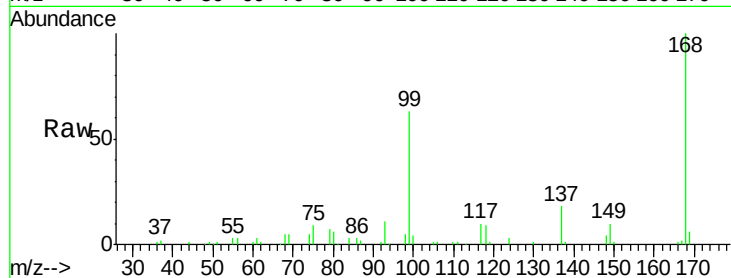
ClientSampled :

Tot Ion:168 Resp: 92797

Ion Ratio Lower Upper

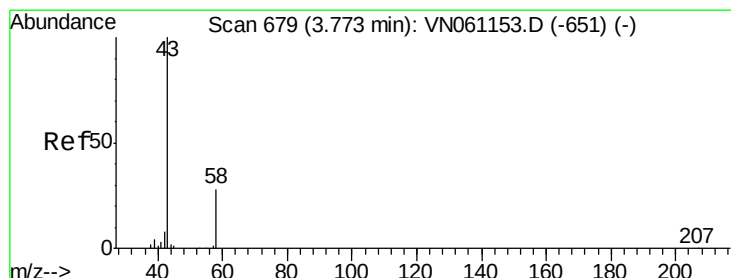
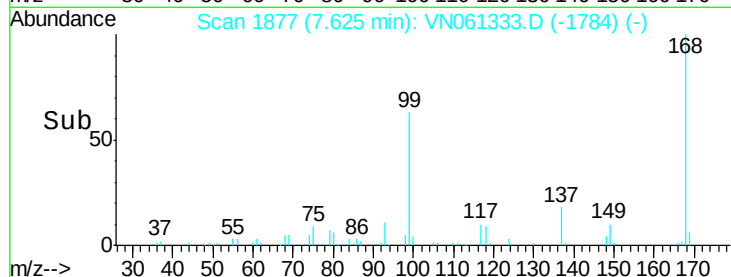
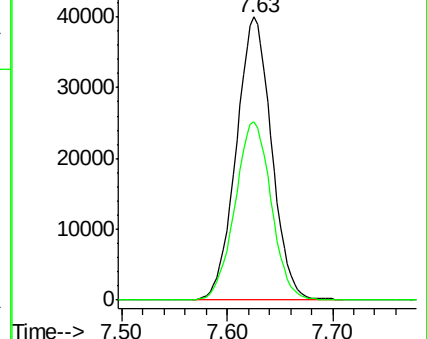
168 100

99 62.9 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 31.882 ug/l

RT: 3.77 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN061333.D

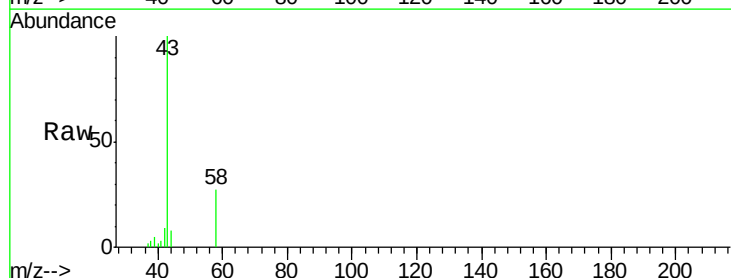
Acq: 7 May 2020 14:57

Tgt Ion: 43 Resp: 20842

Ion Ratio Lower Upper

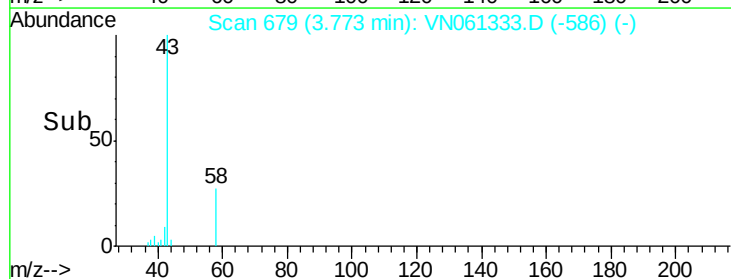
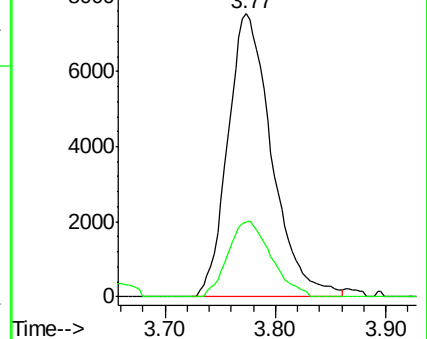
43 100

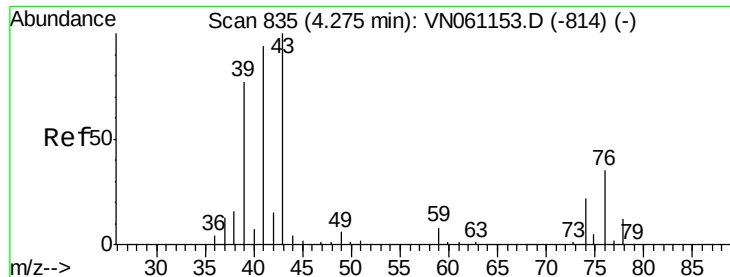
58 26.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

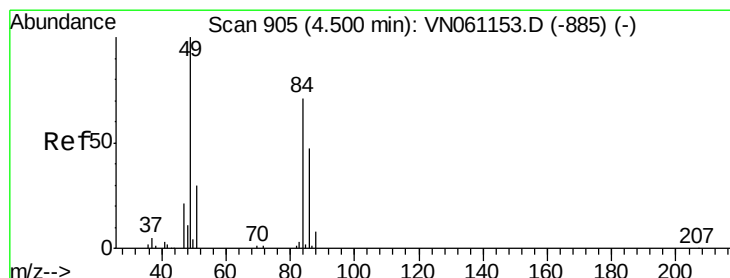
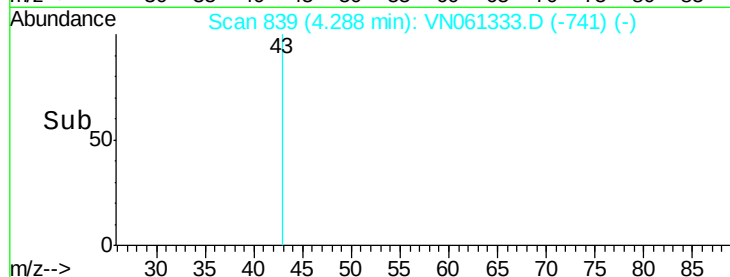
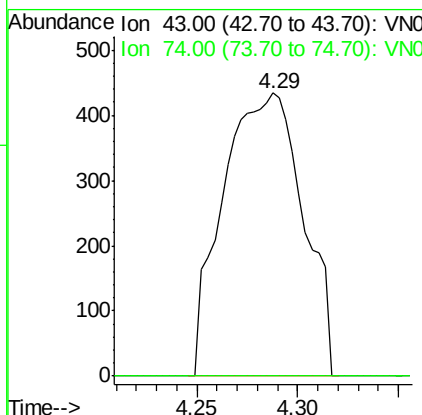
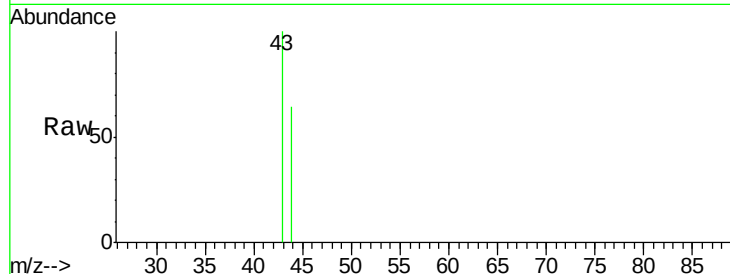




#18
Methyl Acetate
Concen: 1.315 ug/l
RT: 4.29 min Scan# 839
Delta R.T. 0.01 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

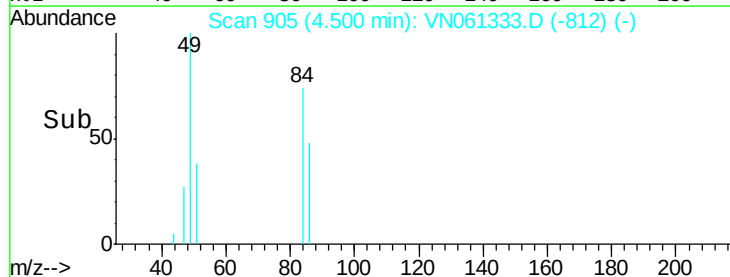
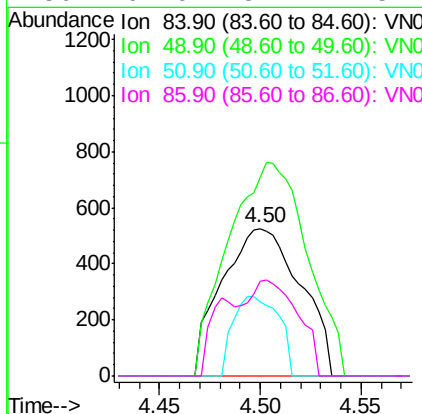
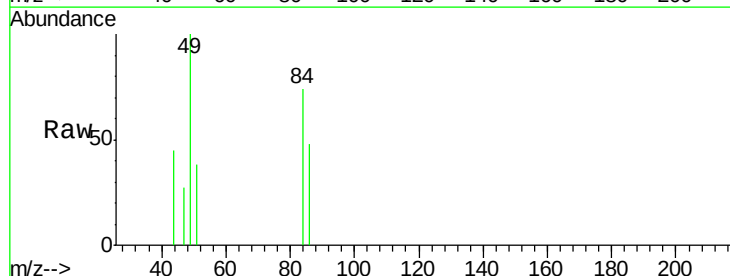
Instrument :
MSVOA_N
ClientSampleId :

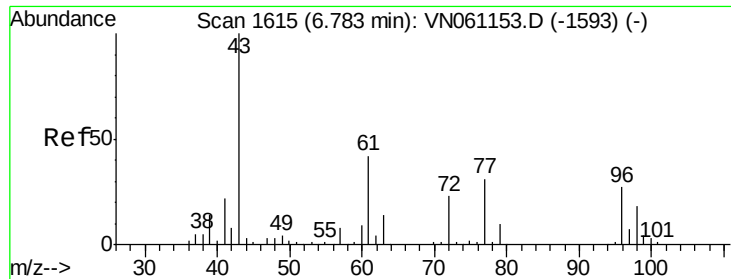
Tot Ion: 43 Resp: 1195
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 1.243 ug/l
RT: 4.50 min Scan# 905
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion: 84 Resp: 1423
Ion Ratio Lower Upper
84 100
49 134.7 112.0 168.0
51 50.7 33.6 50.4#
86 64.0 52.1 78.1

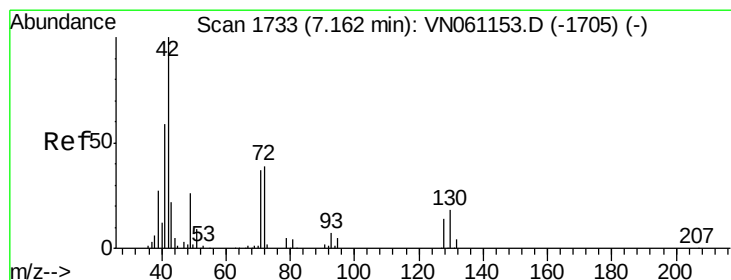
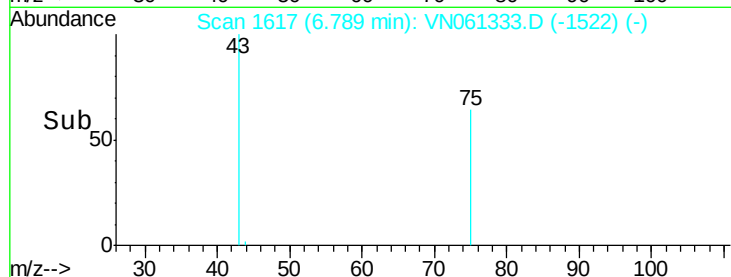
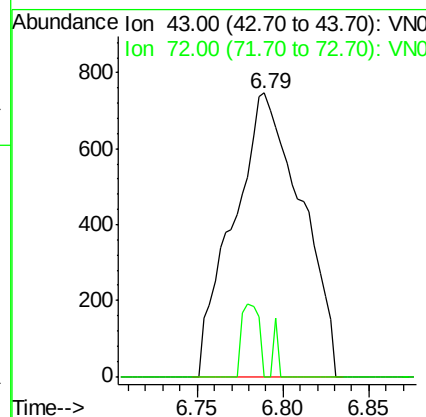
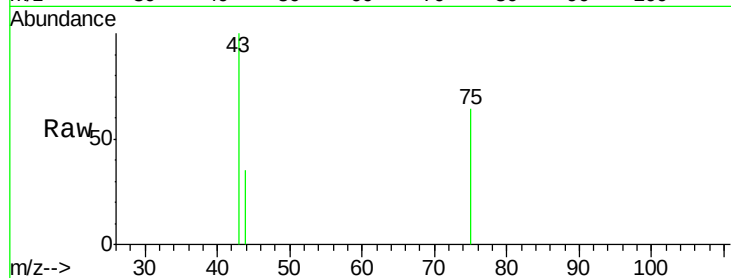




#25
2-Butanone
Concen: 2.359 ug/l
RT: 6.79 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

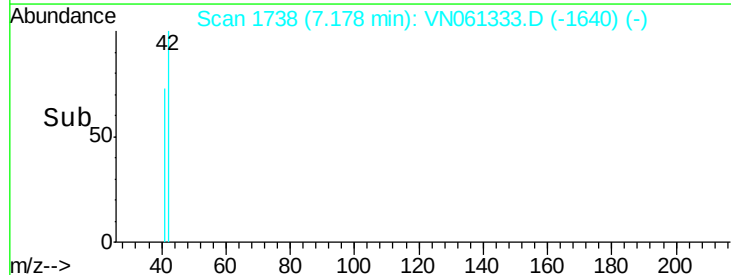
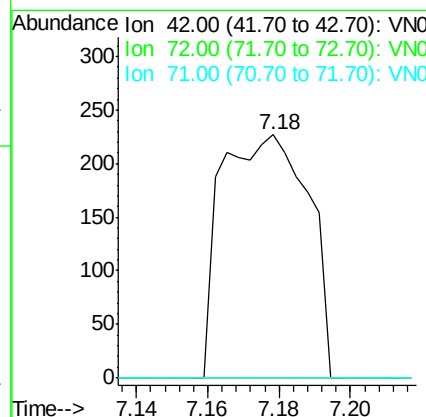
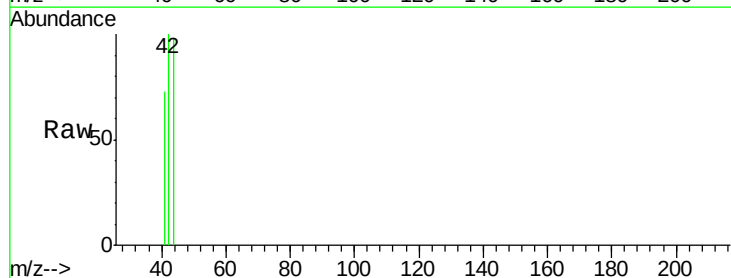
Instrument :
MSVOA_N
ClientSampled :

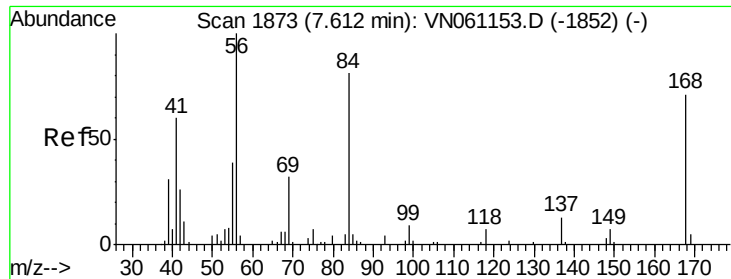
Tot Ion: 43 Resp: 2050
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#



#29
Tetrahydrofuran
Concen: 0.653 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.02 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion: 42 Resp: 382
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 29.5 44.3#

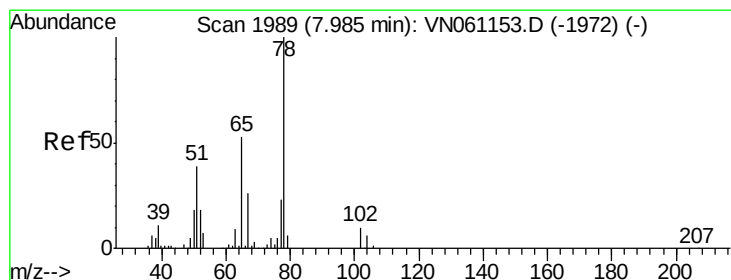
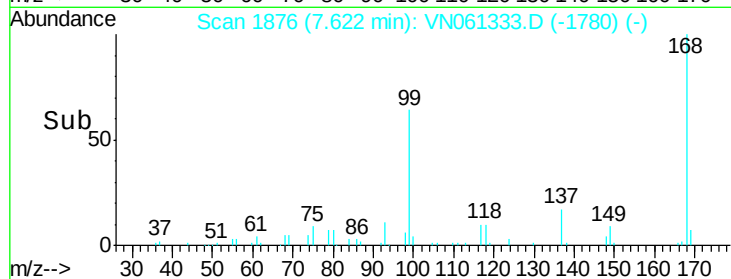
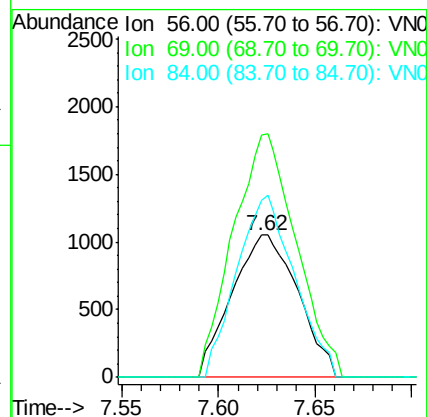
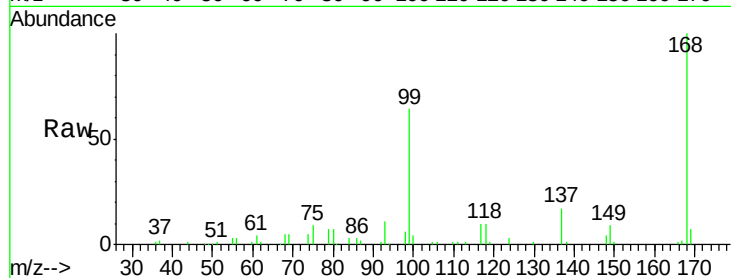




#31
Cyclohexane
Concen: 1.168 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. 0.01 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

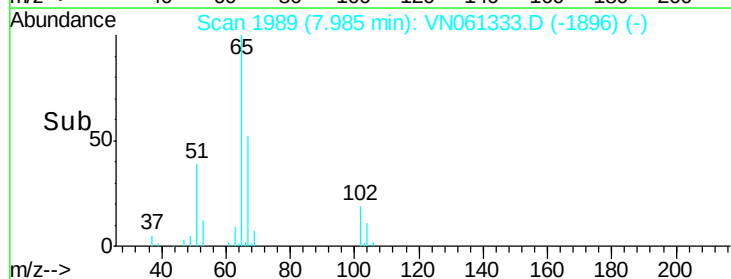
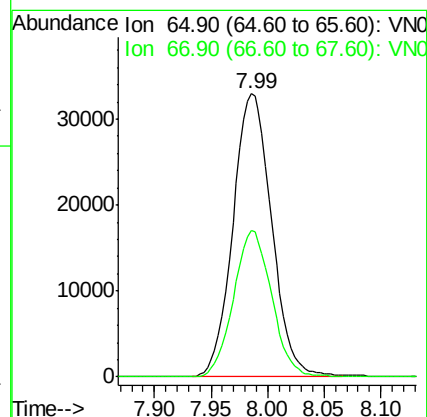
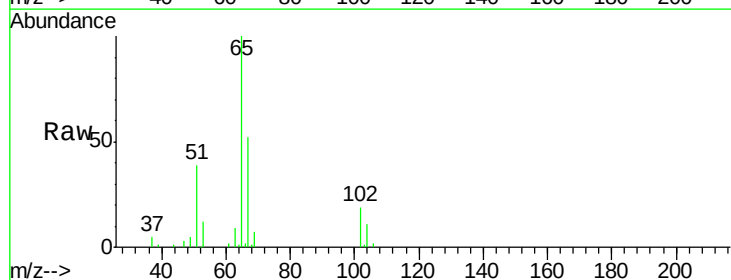
Instrument :
MSVOA_N
ClientSampled :

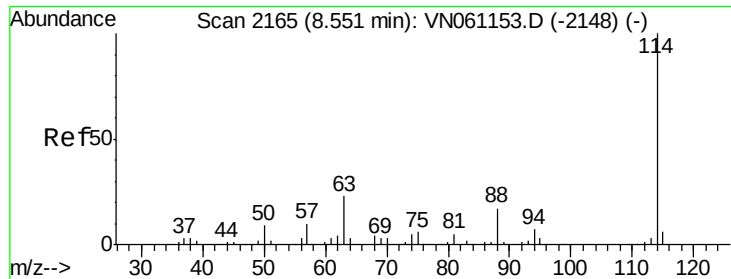
Tot Ion: 56 Resp: 2494
Ion Ratio Lower Upper
56 100
69 170.5 25.7 38.5#
84 124.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 53.467 ug/l
RT: 7.99 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion: 65 Resp: 78508
Ion Ratio Lower Upper
65 100
67 50.7 0.0 101.6

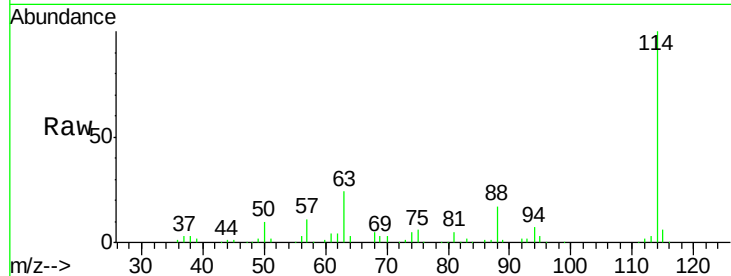




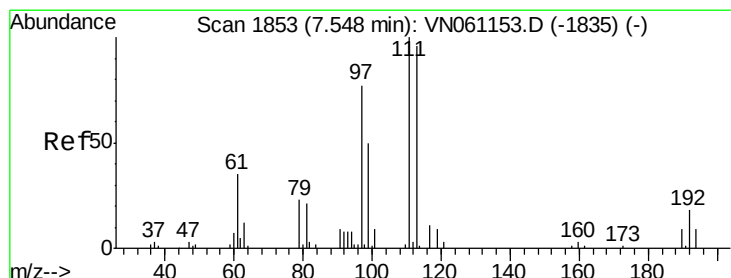
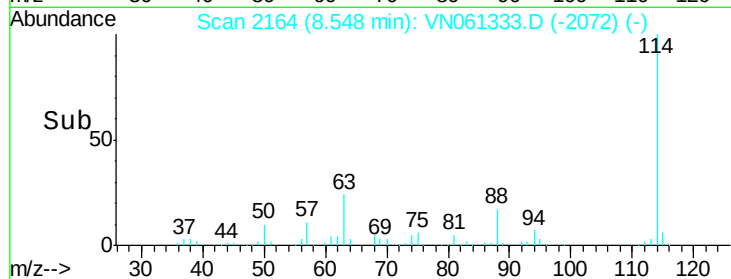
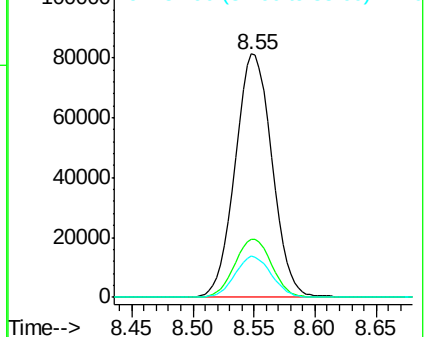
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2164
Delta R.T. -0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 170062
Ion Ratio Lower Upper
114 100
63 24.1 0.0 46.6
88 16.8 0.0 33.4

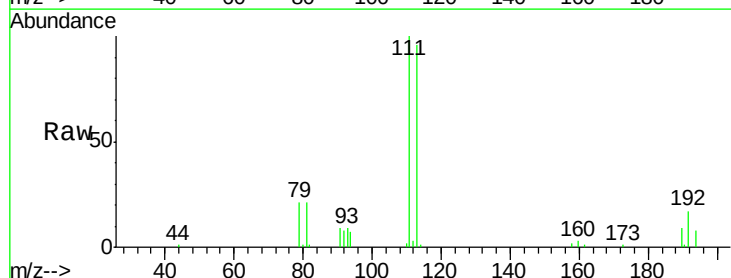


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

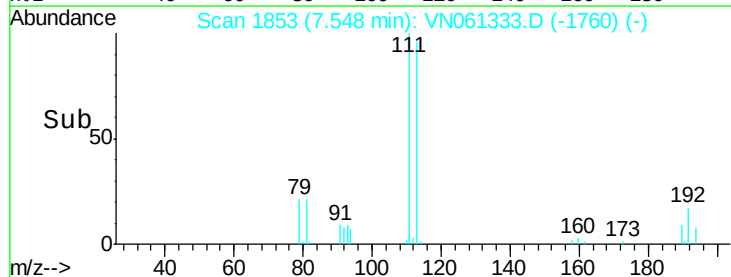
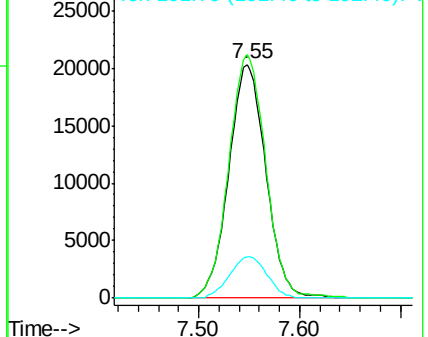


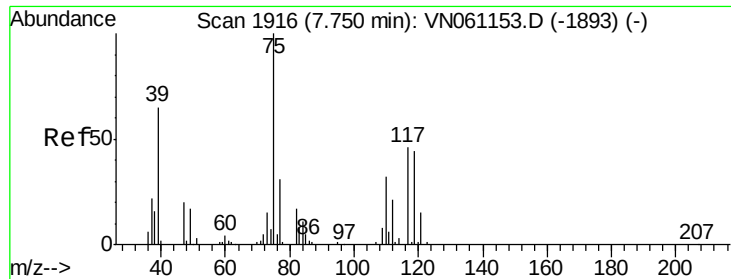
#35
Dibromofluoromethane
Concen: 51.449 ug/l
RT: 7.55 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion:113 Resp: 51738
Ion Ratio Lower Upper
113 100
111 104.2 82.9 124.3
192 17.8 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

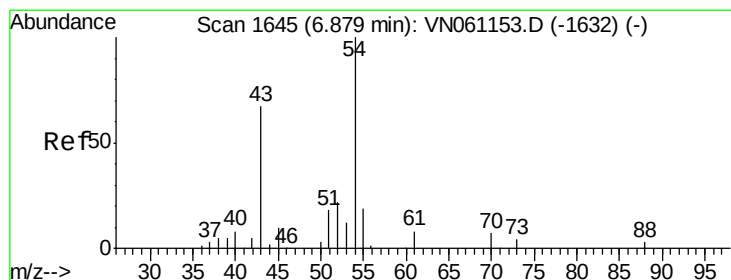
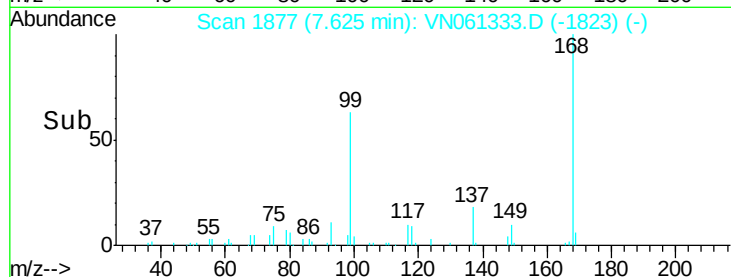
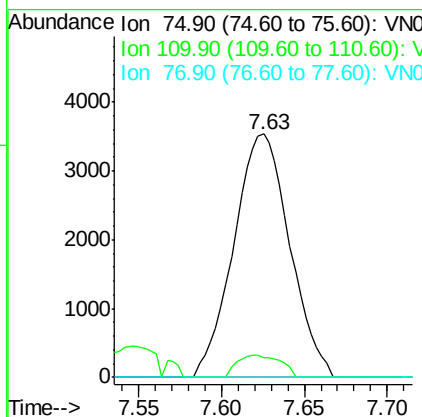
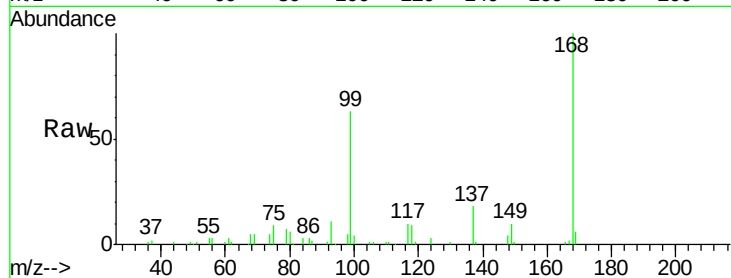




#36
 1,1-Dichloropropene
 Concen: 4.868 ug/l
 RT: 7.63 min Scan# 1877
 Delta R.T. -0.13 min
 Lab File: VN061333.D
 Acq: 7 May 2020 14:57

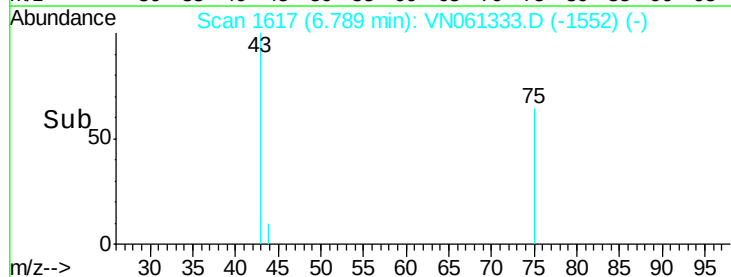
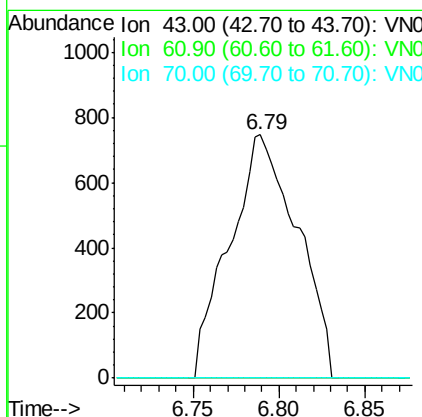
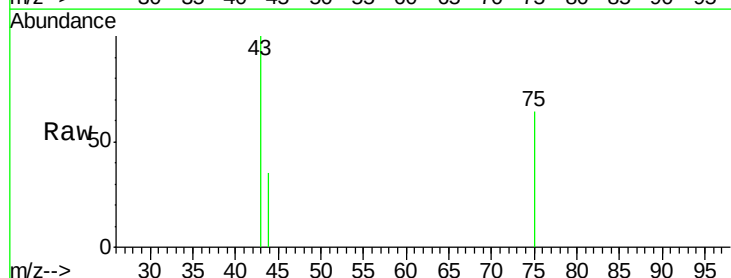
Instrument :
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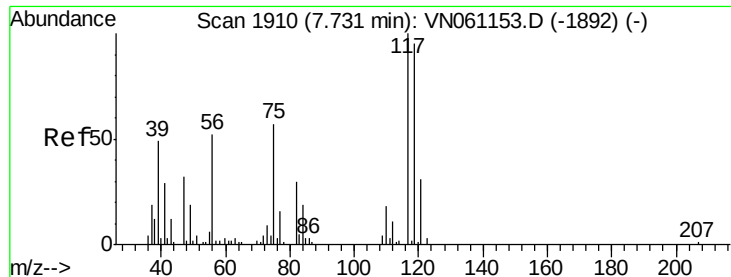
Tot Ion: 75 Resp: 8288
 Ion Ratio Lower Upper
 75 100
 110 7.1 16.0 48.0#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 1.027 ug/l
 RT: 6.79 min Scan# 1617
 Delta R.T. -0.09 min
 Lab File: VN061333.D
 Acq: 7 May 2020 14:57

Tgt Ion: 43 Resp: 2050
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 8.312 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

ClientSampleId :

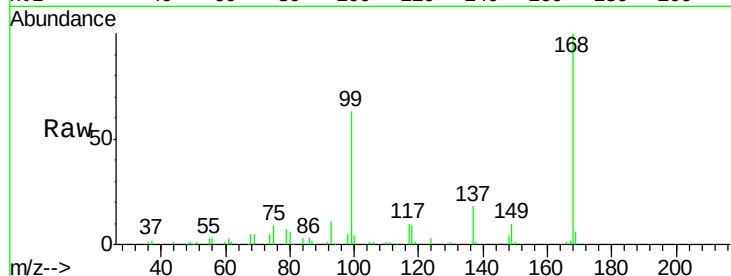
Tot Ion:117 Resp: 9807

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.6#

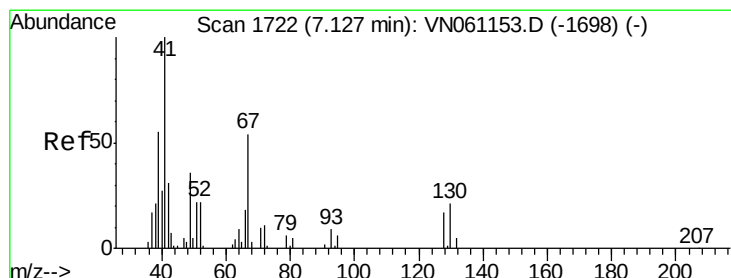
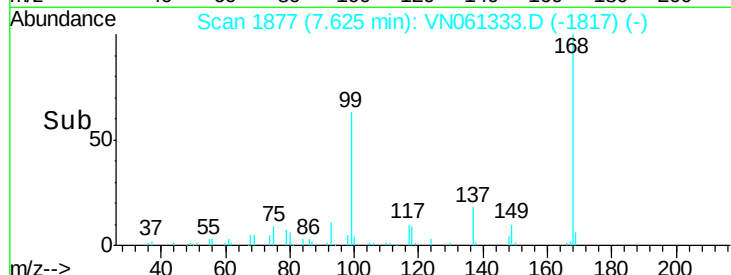
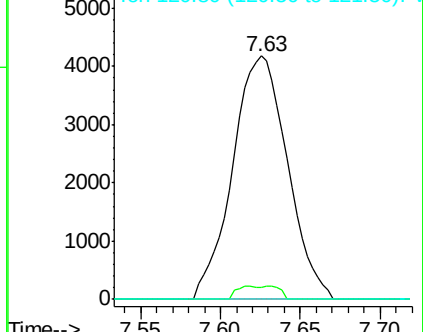
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.253 ug/l

RT: 7.17 min Scan# 1736

Delta R.T. 0.05 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Tgt Ion: 41 Resp: 210

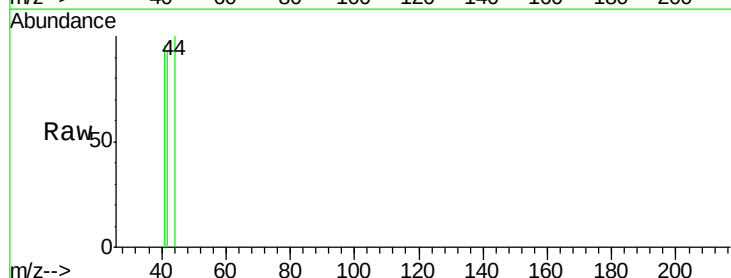
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

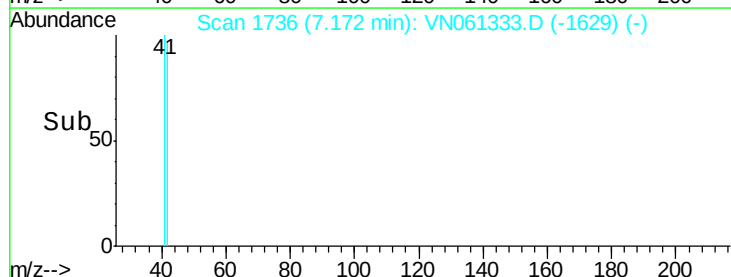
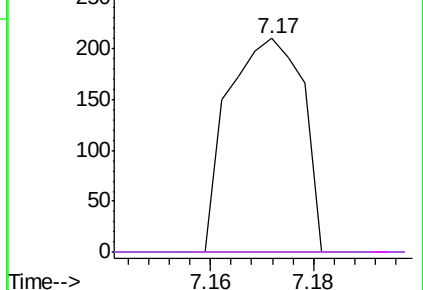


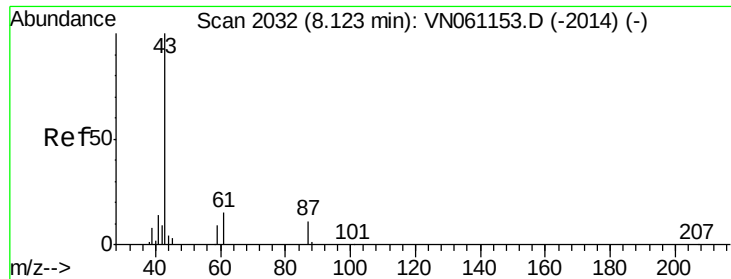
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 9.994 ug/l

RT: 8.12 min Scan# 2032

Delta R.T. 0.00 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

ClientSampled :

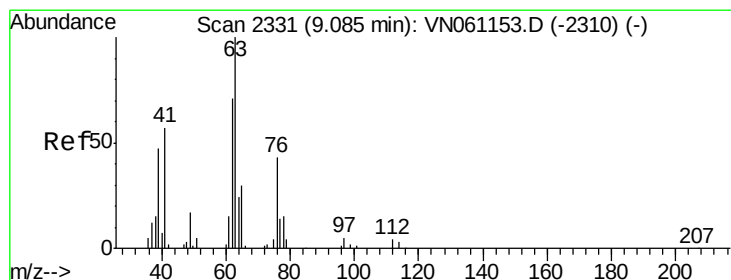
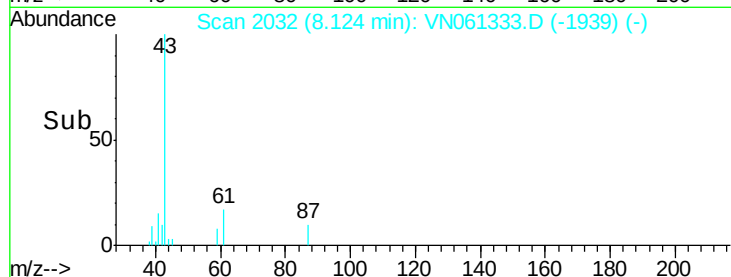
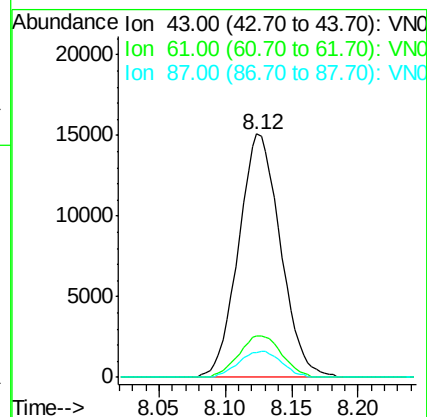
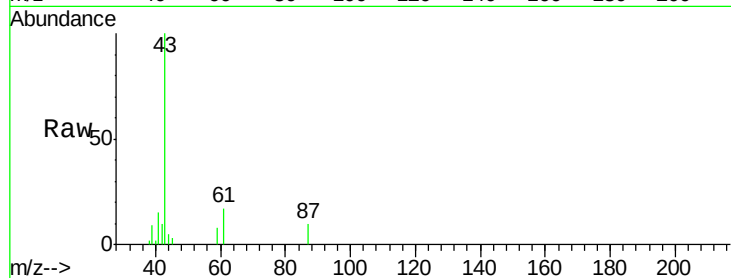
Tot Ion: 43 Resp: 33101

Ion Ratio Lower Upper

43 100

61 17.6 19.5 29.3#

87 10.8 8.9 13.3



#45

1,2-Dichloropropane

Concen: 0.329 ug/l

RT: 9.23 min Scan# 2377

Delta R.T. 0.15 min

Lab File: VN061333.D

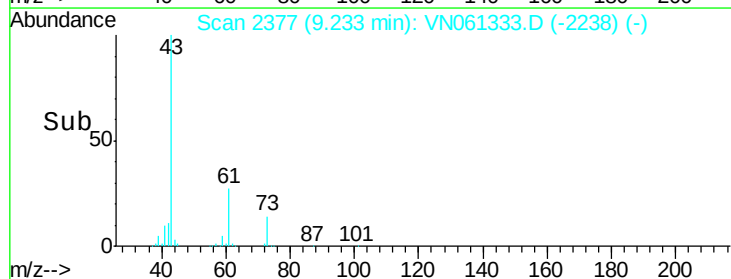
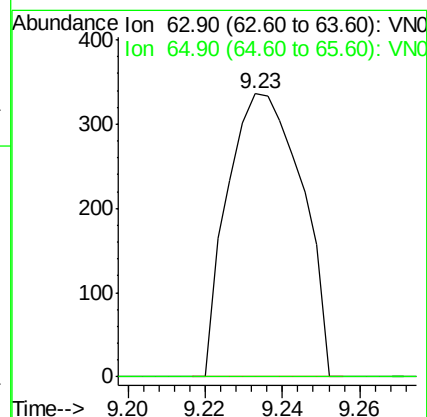
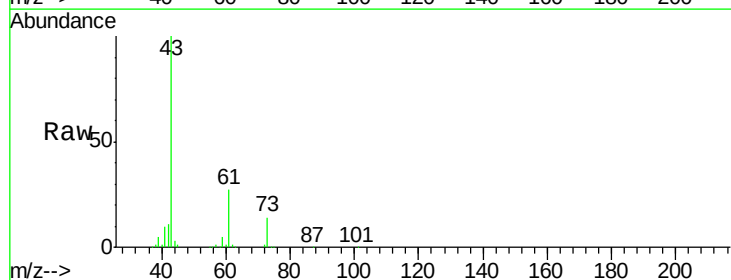
Acq: 7 May 2020 14:57

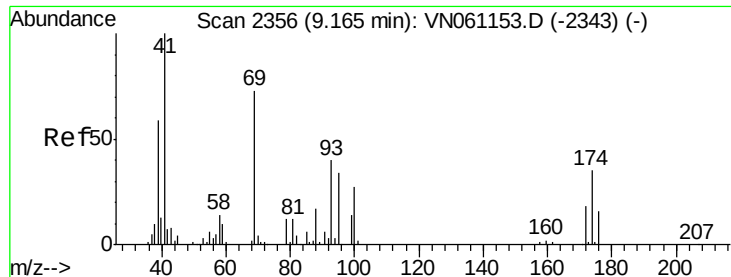
Tgt Ion: 63 Resp: 446

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

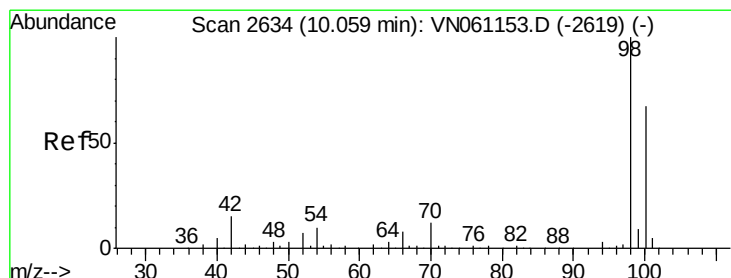
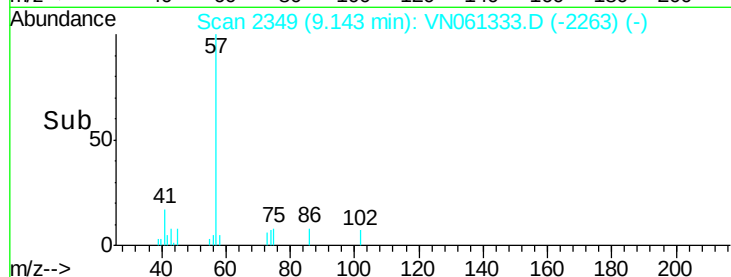
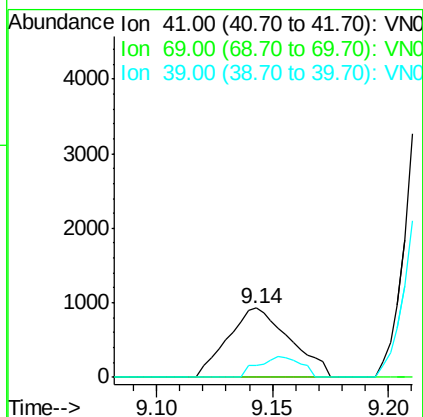
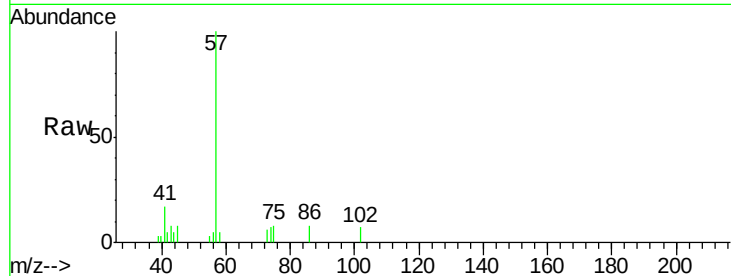




#48
Methvl methacrylate
Concen: 1.154 ug/l
RT: 9.14 min Scan# 2349
Delta R.T. -0.02 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

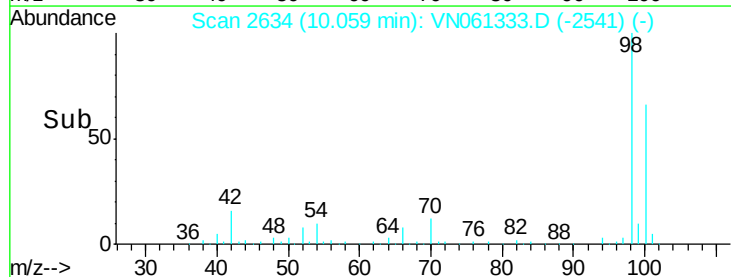
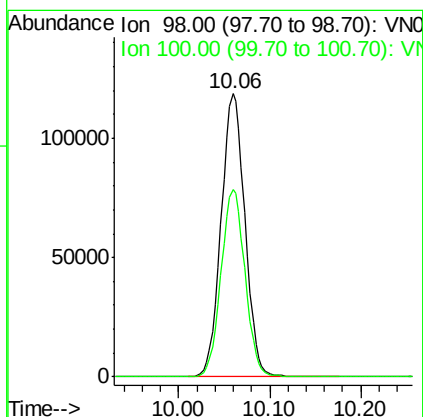
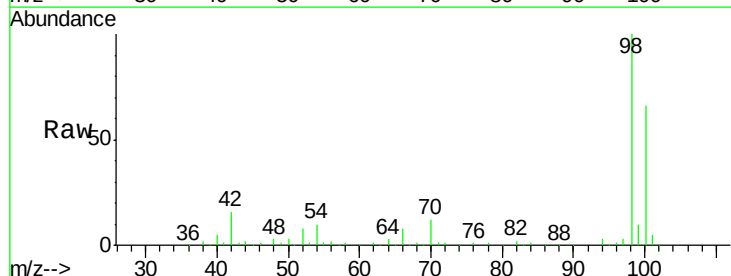
Instrument :
MSVOA_N
ClientSampleId :

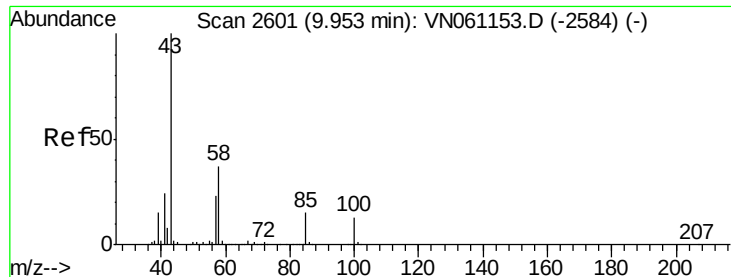
Tot Ion: 41 Resp: 1725
Ion Ratio Lower Upper
41 100
69 0.0 60.3 90.5#
39 0.0 47.4 71.0#



#50
Toluene-d8
Concen: 52.734 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion: 98 Resp: 216177
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0

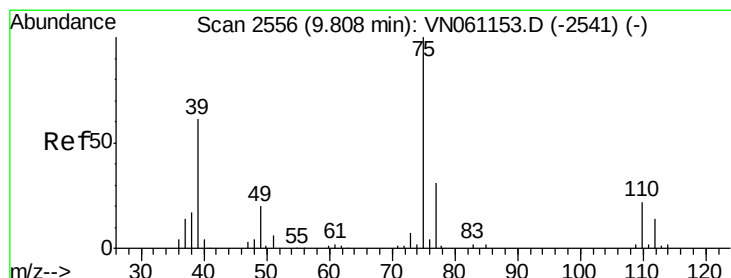
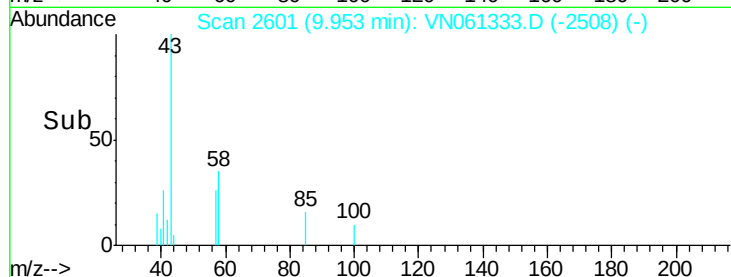
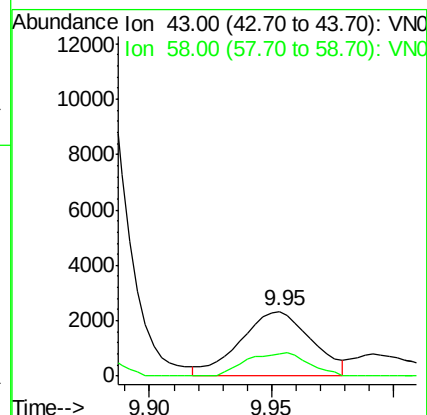
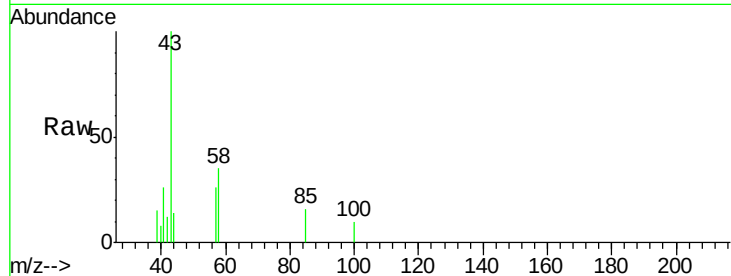




#51
 4-Methyl-2-Pentanone
 Concen: 2.427 ug/l
 RT: 9.95 min Scan# 2601
 Delta R.T. 0.00 min
 Lab File: VN061333.D
 Acq: 7 May 2020 14:57

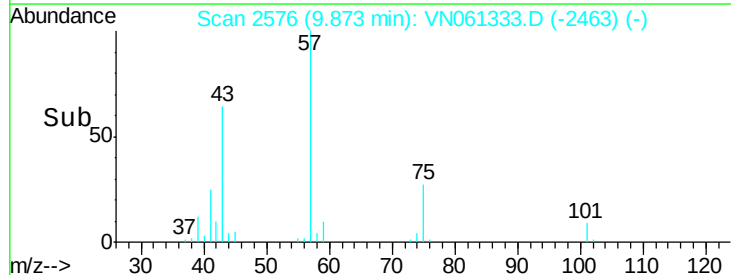
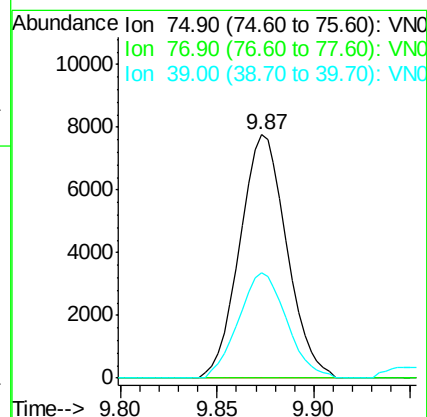
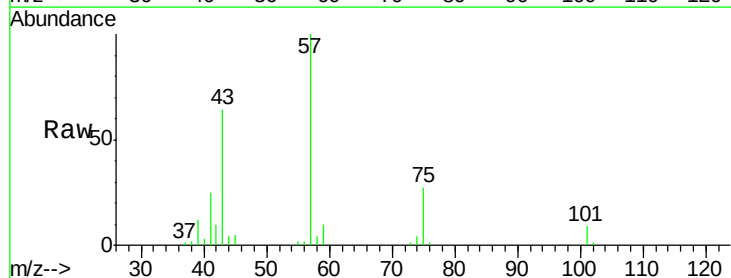
Instrument :
 MSVOA_N
 ClientSampled :

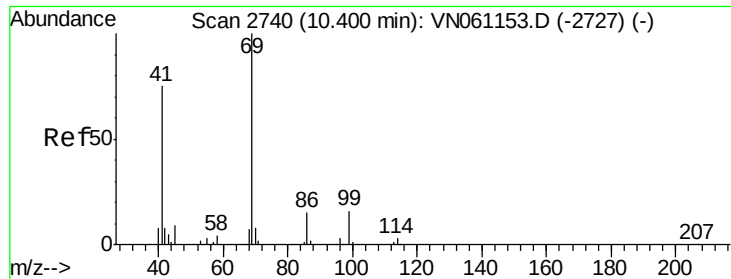
Tot Ion: 43 Resp: 4732
 Ion Ratio Lower Upper
 43 100
 58 31.6 29.1 43.7



#54
 cis-1,3-Dichloropropene
 Concen: 6.103 ug/l
 RT: 9.87 min Scan# 2576
 Delta R.T. 0.06 min
 Lab File: VN061333.D
 Acq: 7 May 2020 14:57

Tgt Ion: 75 Resp: 13091
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 43.4 48.7 73.1#





#56

Ethyl methacrylate

Concen: 2.960 ug/l

RT: 10.51 min Scan# 2774

Delta R.T. 0.11 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

ClientSampled :

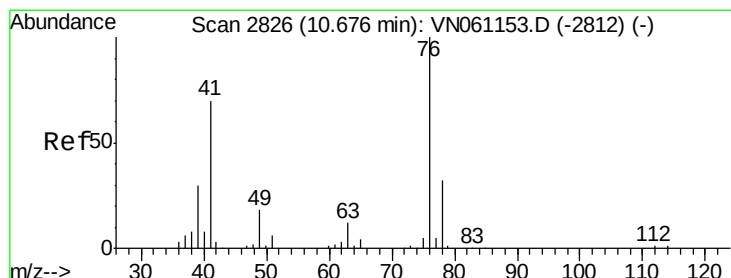
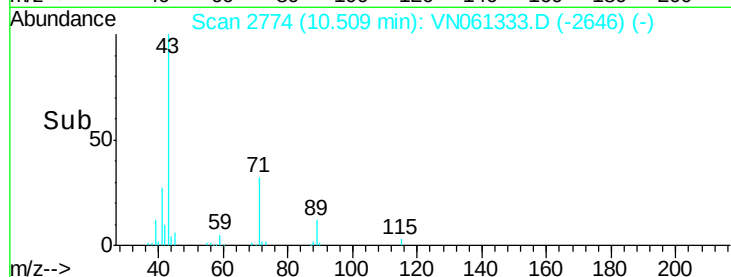
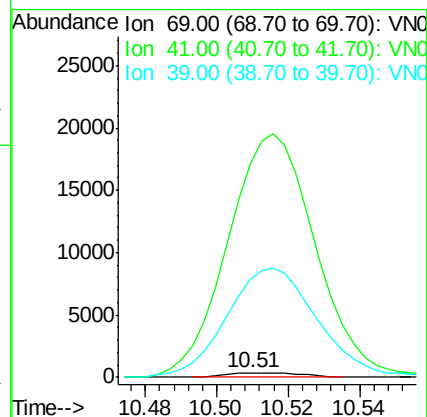
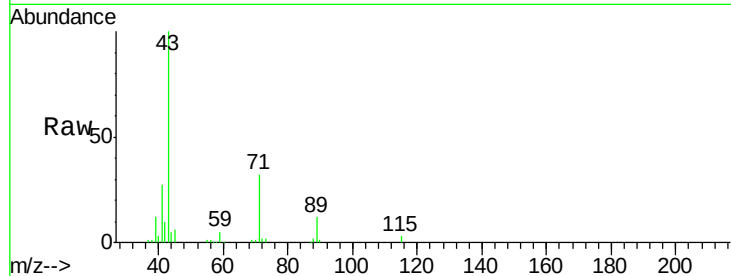
Tot Ion: 69 Resp: 524

Ion Ratio Lower Upper

69 100

41 6368.1 60.3 90.5#

39 2983.0 35.9 53.9#



#57

1,3-Dichloropropane

Concen: 0.974 ug/l

RT: 10.74 min Scan# 2845

Delta R.T. 0.06 min

Lab File: VN061333.D

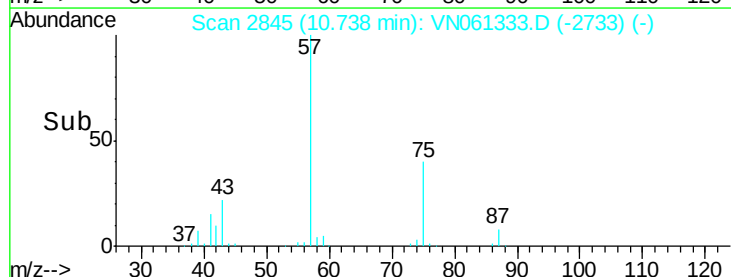
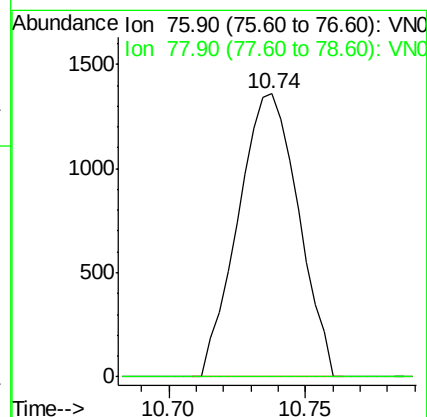
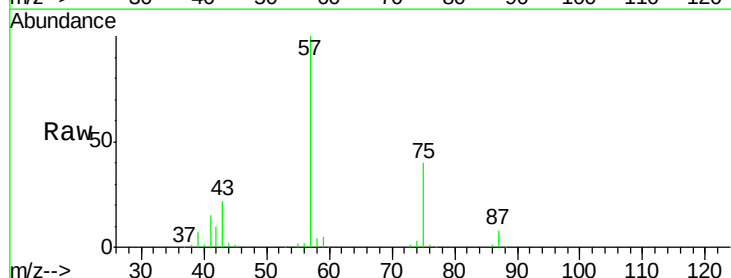
Acq: 7 May 2020 14:57

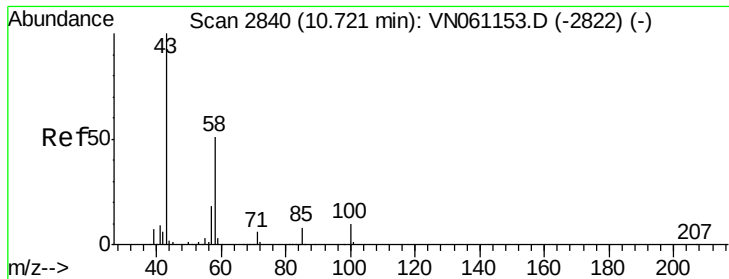
Tgt Ion: 76 Resp: 2087

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

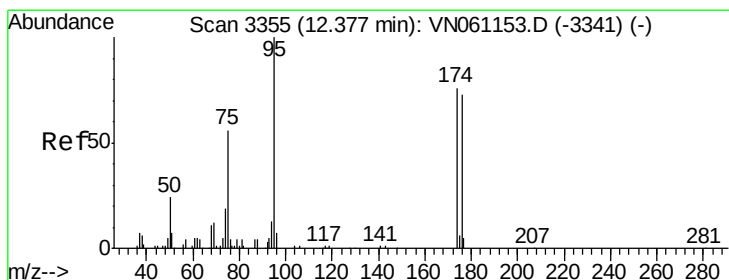
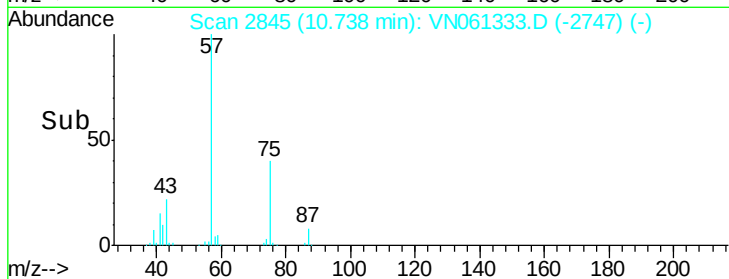
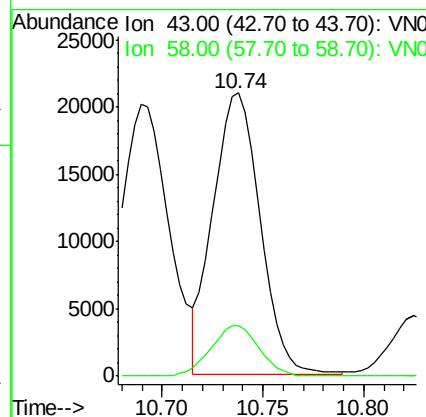
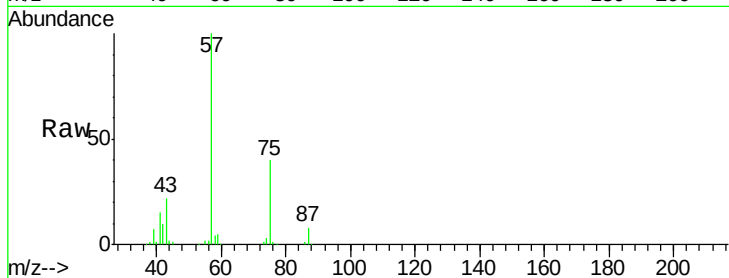




#59
2-Hexanone
Concen: 24.047 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.02 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

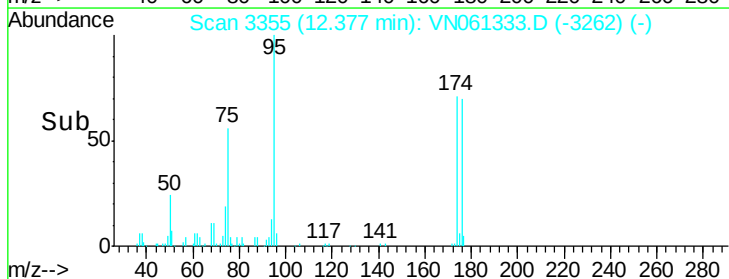
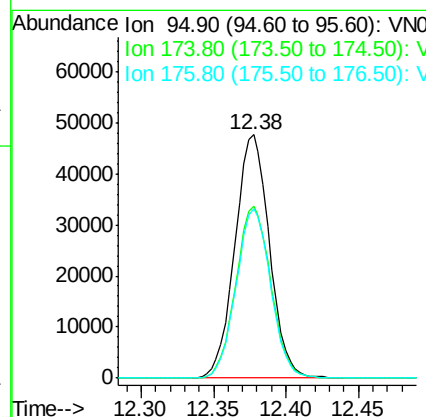
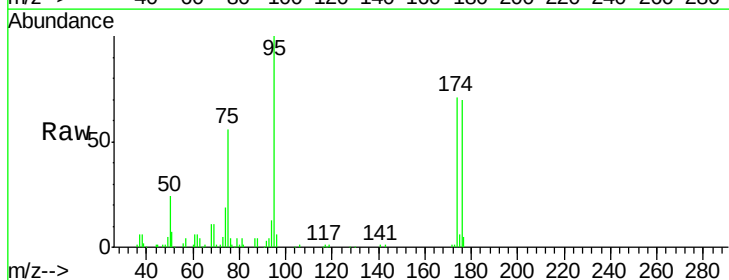
Instrument :
MSVOA_N
ClientSampleId :

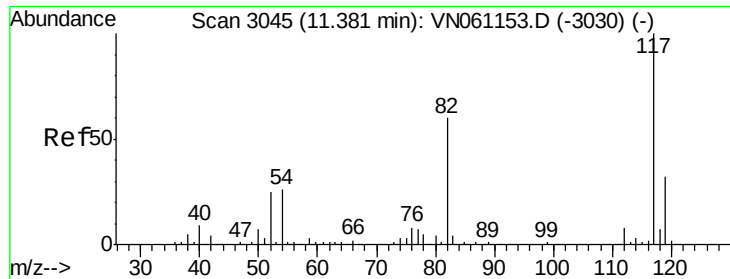
Tot Ion: 43 Resp: 34108
Ion Ratio Lower Upper
43 100
58 18.2 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 50.927 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion: 95 Resp: 78564
Ion Ratio Lower Upper
95 100
174 71.9 0.0 149.4
176 69.6 0.0 144.8

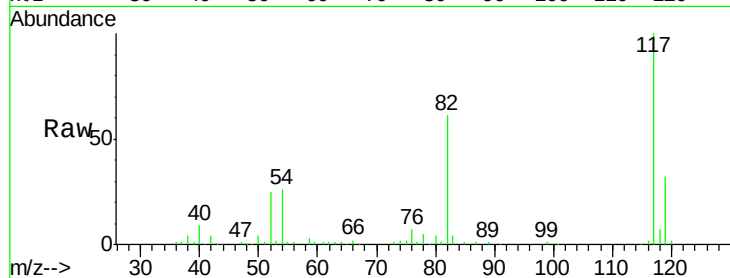




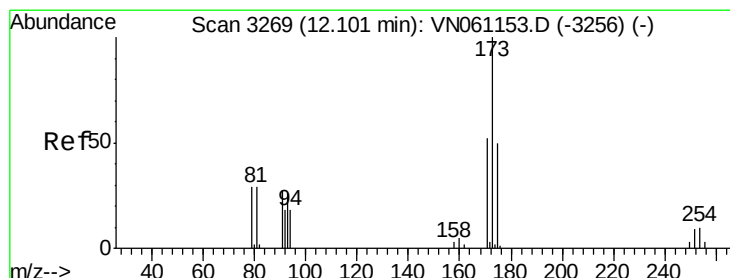
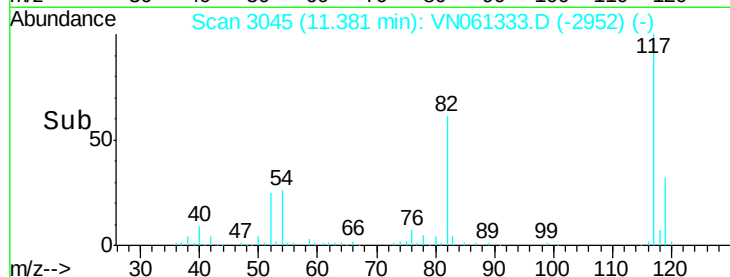
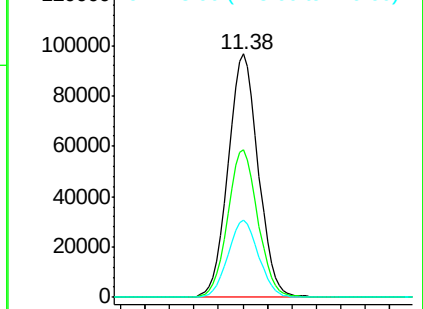
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 166557
Ion Ratio Lower Upper
117 100
82 60.6 47.8 71.8
119 31.7 25.8 38.6

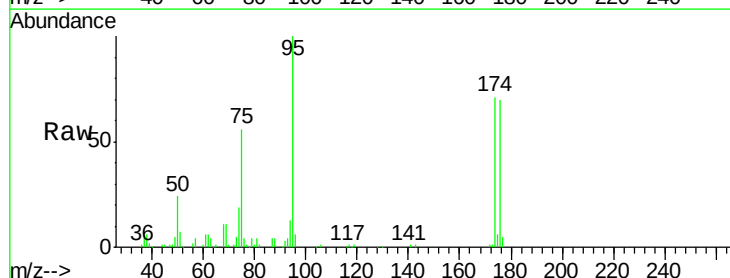


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

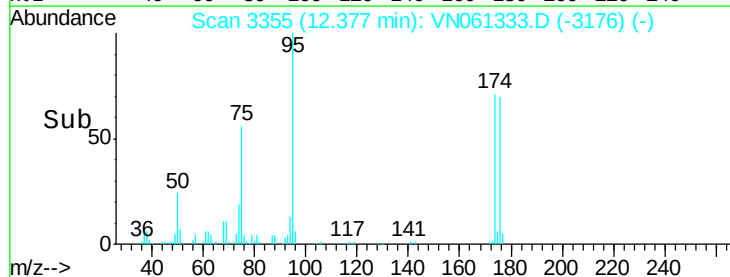
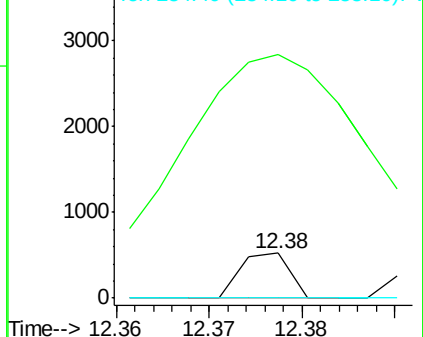


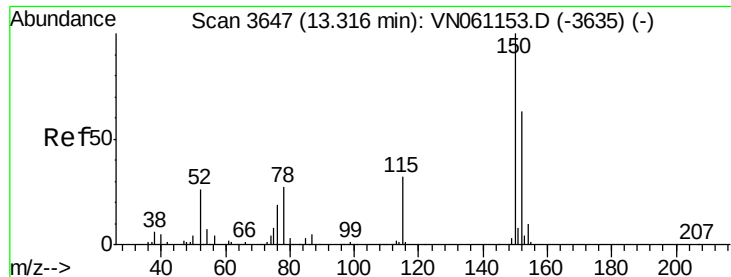
#71
Bromoform
Concen: 0.223 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.28 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Tgt Ion:173 Resp: 194
Ion Ratio Lower Upper
173 100
175 1952.1 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

ClientSampleId :

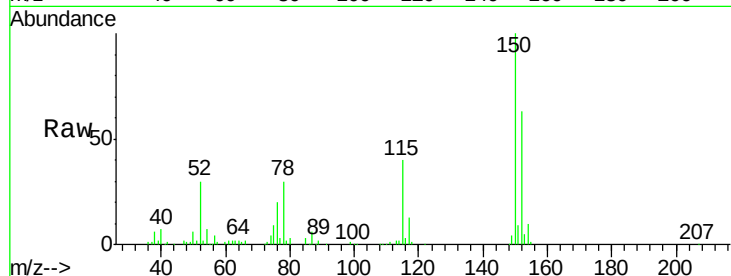
Tot Ion:152 Resp: 68592

Ion Ratio Lower Upper

152 100

115 62.7 31.0 93.0

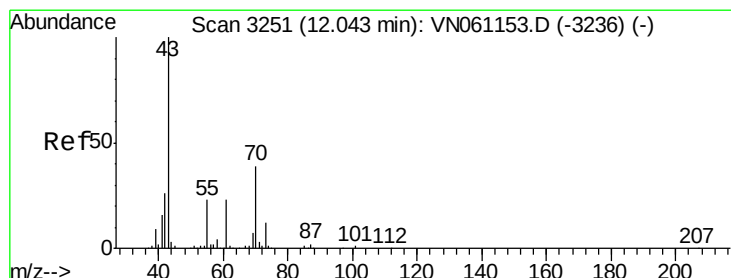
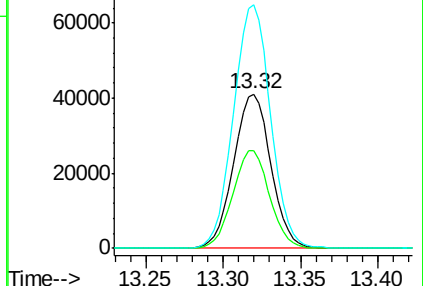
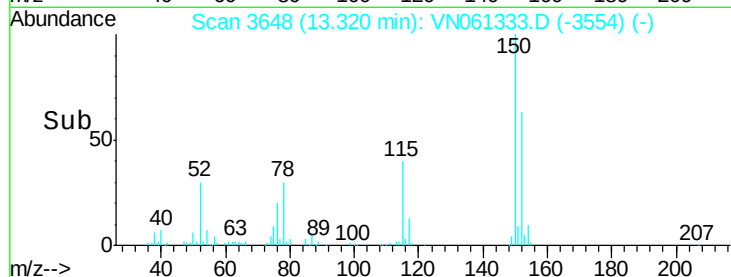
150 157.5 0.0 351.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.649 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Tgt Ion: 43 Resp: 1657

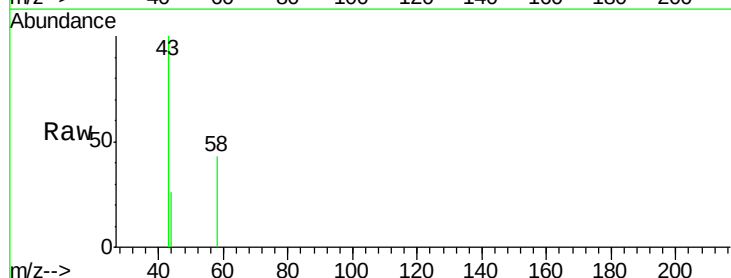
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

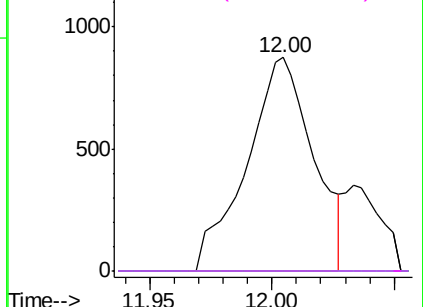
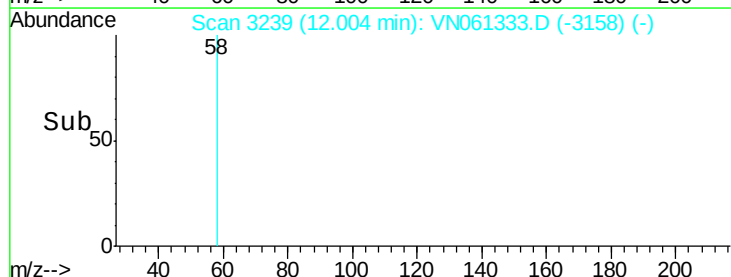


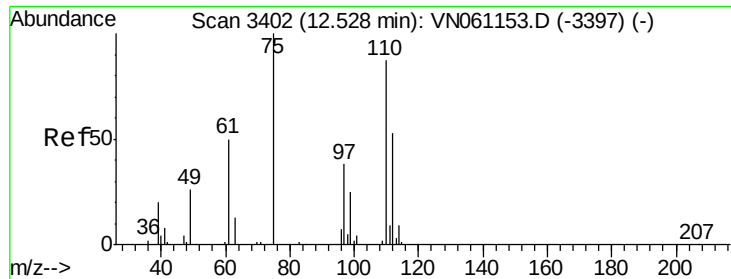
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.347 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

Instrument :

MSVOA_N

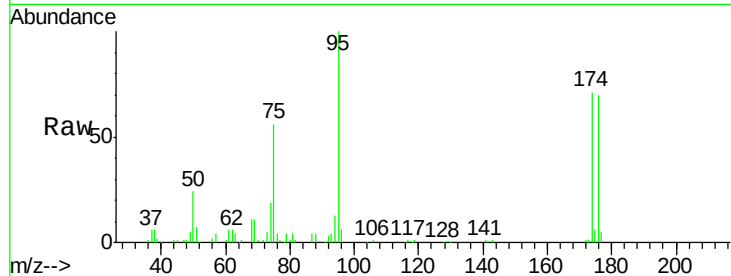
ClientSampled :

Tot Ion: 75 Resp: 43885

Ion Ratio Lower Upper

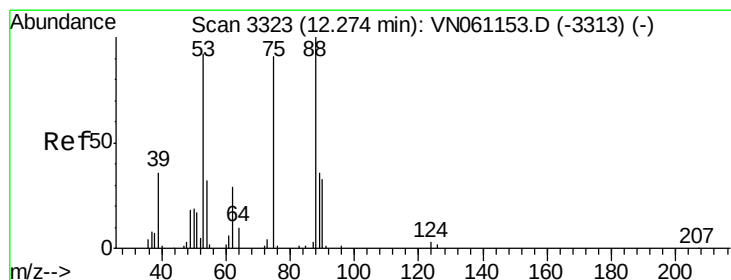
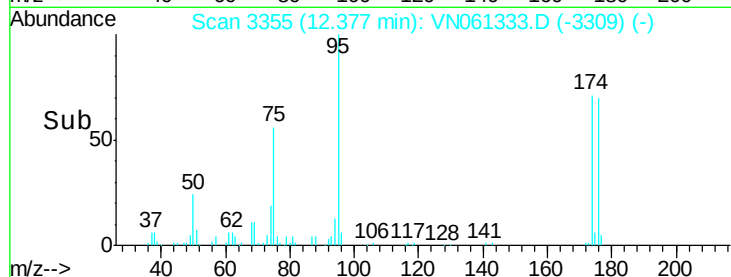
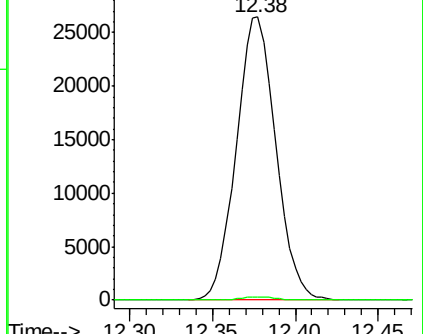
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 77.066 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061333.D

Acq: 7 May 2020 14:57

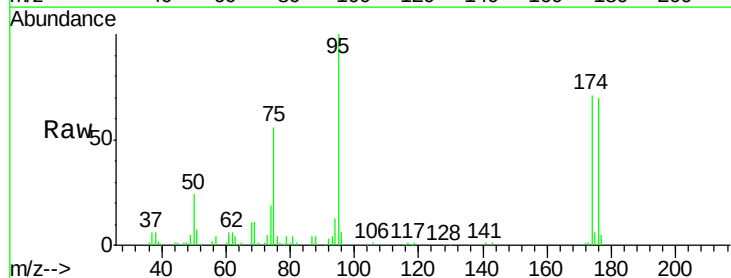
Tgt Ion: 75 Resp: 43885

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

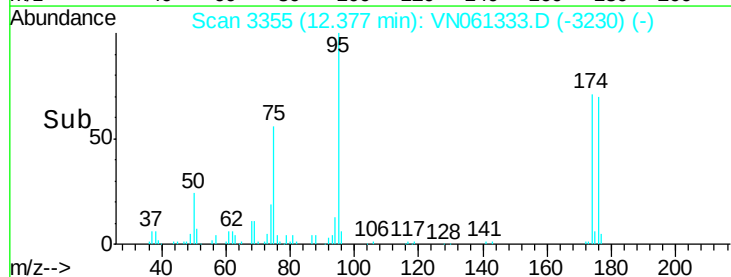
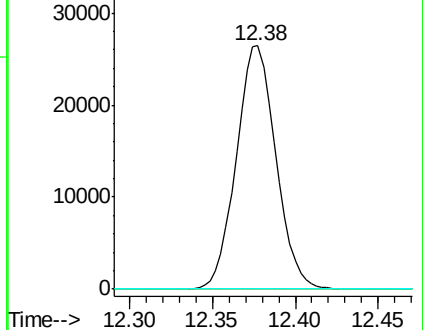
89 0.0 35.2 52.8#

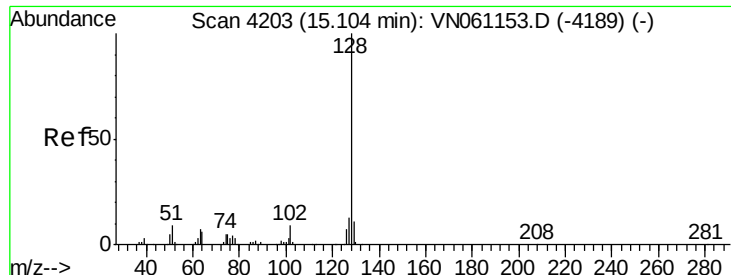


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

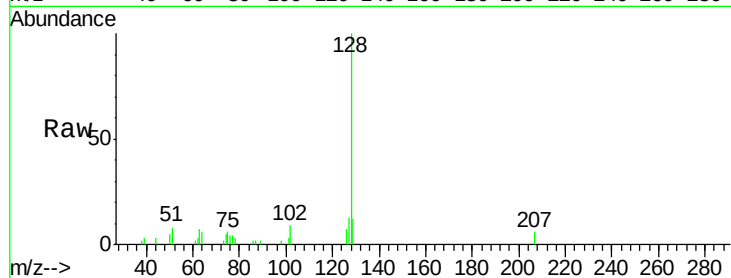




#95
Naphthalene
Concen: 4.596 ug/l
RT: 15.11 min Scan# 4204
Delta R.T. 0.00 min
Lab File: VN061333.D
Acq: 7 May 2020 14:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

