

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060118.D
 Acq On : 17 Feb 2020 14:44
 Operator : JC/MD
 Sample : PB126834ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 16:56:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	189525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	286908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127778	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	117910	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
35) Dibromofluoromethane	7.57	113	92157	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.08	98	370594	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.40	95	136139	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	

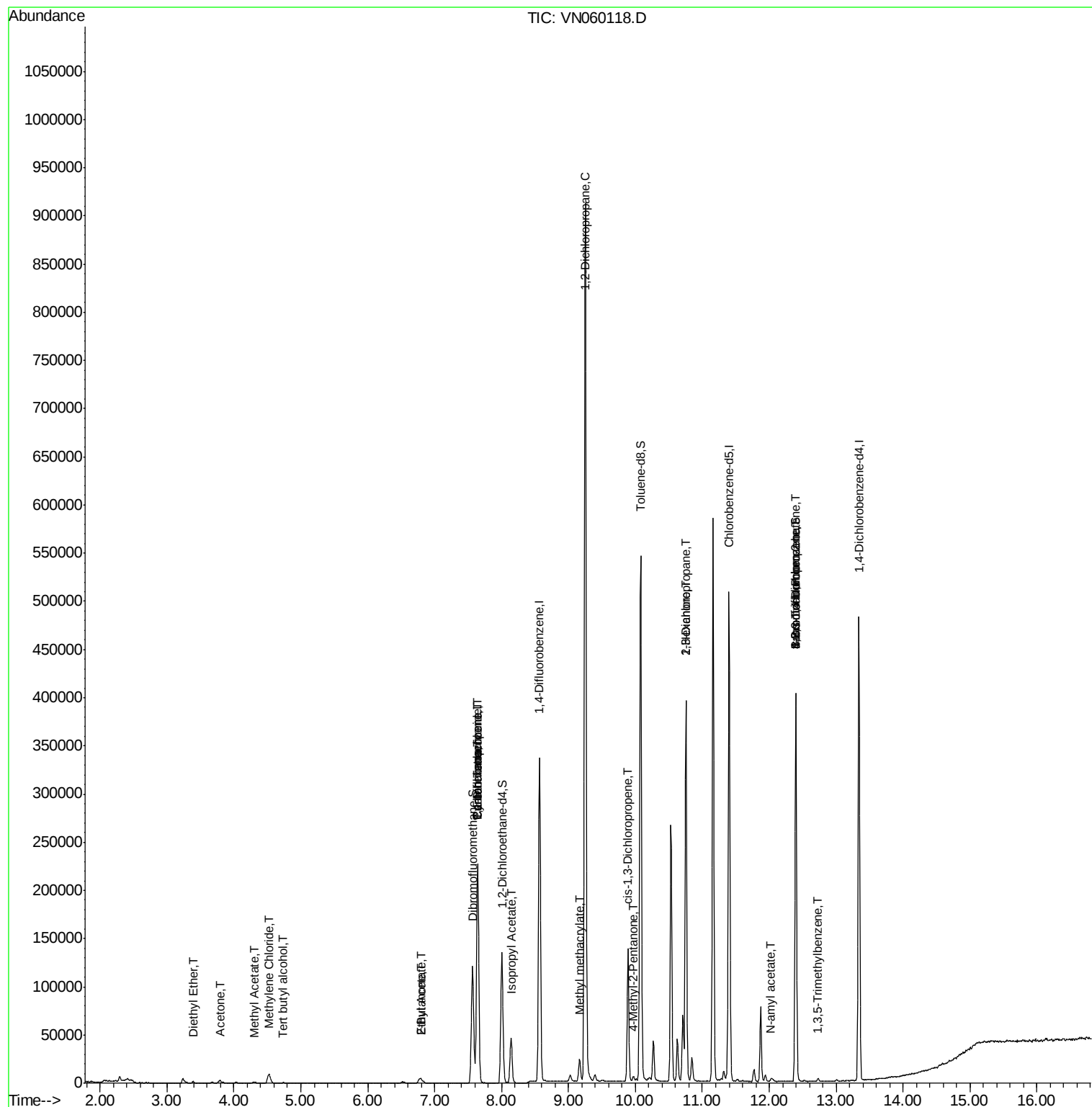
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	465	0.422	ug/l #	1
11) Tert butyl alcohol	4.73	59	831	2.408	ug/l #	72
16) Acetone	3.79	43	5525	5.492	ug/l	96
18) Methyl Acetate	4.29	43	645	0.341	ug/l #	50
20) Methylene Chloride	4.53	84	7467	3.721	ug/l	95
25) 2-Butanone	6.81	43	4081	3.226	ug/l	97
31) Cyclohexane	7.64	56	3938	1.207	ug/l #	20
36) 1,1-Dichloropropene	7.64	75	14091	4.988	ug/l #	49
37) Ethyl Acetate	6.81	43	4081	1.599	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17698	5.769	ug/l #	15
43) Isopropyl Acetate	8.14	43	56034	12.840	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1064	0.513	ug/l #	43
48) Methyl methacrylate	9.16	41	3894	1.989	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3994	1.581	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	24792	6.998	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3869	1.119	ug/l #	43
59) 2-Hexanone	10.75	43	58655	30.061	ug/l #	52
71) Bromoform	12.39	173	519	0.292	ug/l #	1
74) N-amyl acetate	12.03	43	3382	0.983	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	71117	29.091	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1932	0.244	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	71117	71.229	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	67	Below Cal	#	1

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

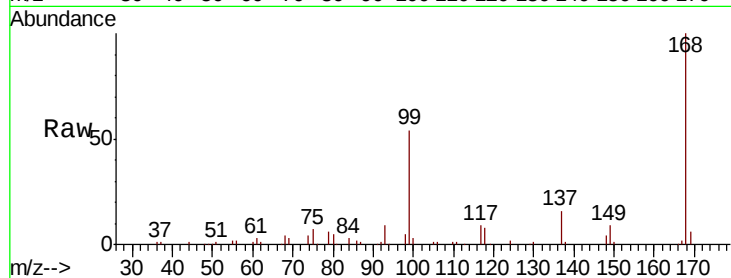
ClientSampled :

Tot Ion:168 Resp: 189525

Ion Ratio Lower Upper

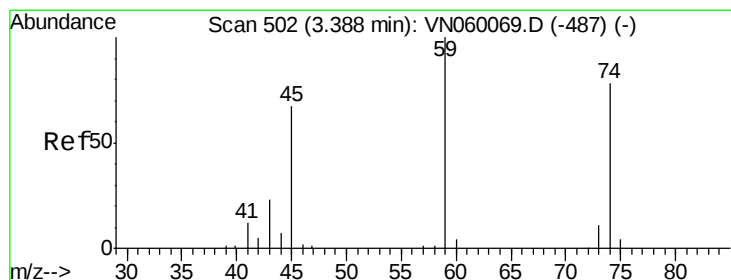
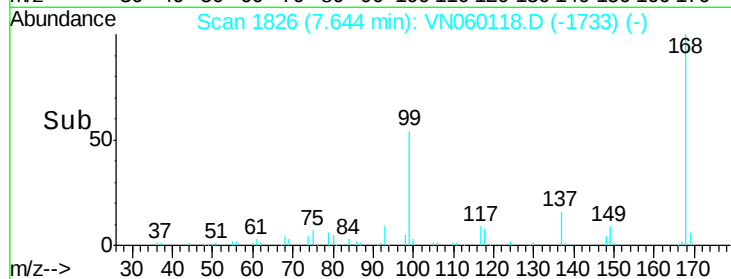
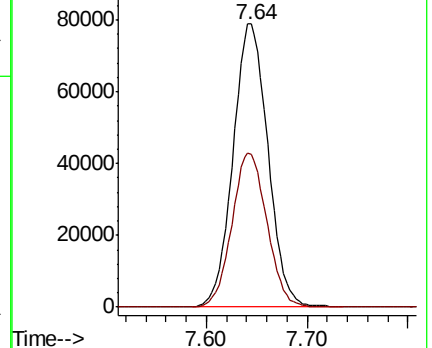
168 100

99 53.8 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.422 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN060118.D

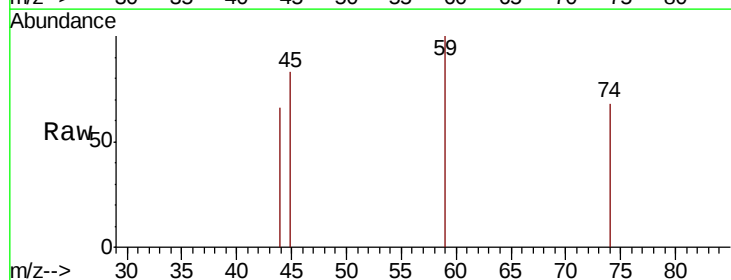
Acq: 17 Feb 2020 14:44

Tgt Ion: 74 Resp: 465

Ion Ratio Lower Upper

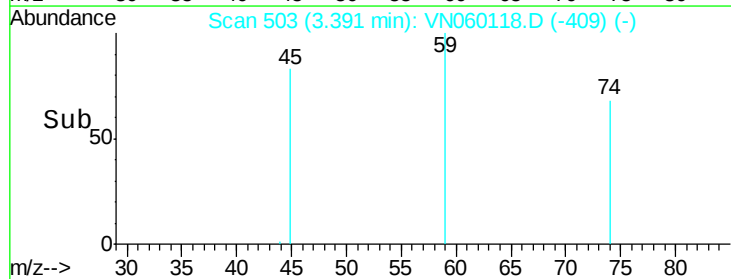
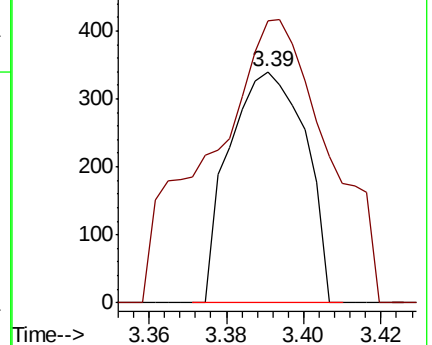
74 100

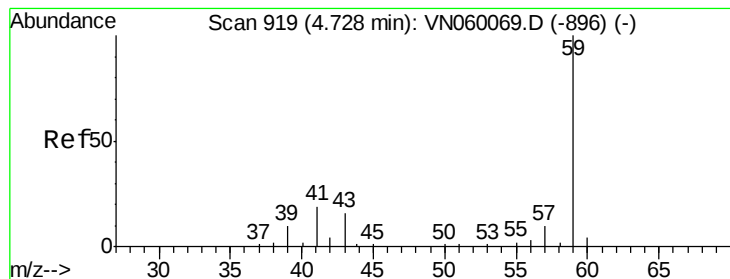
45 190.5 44.7 134.1#



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN



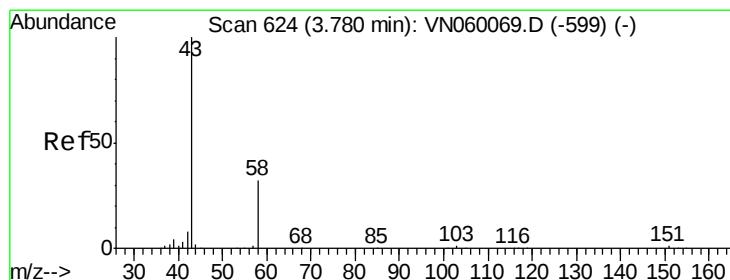
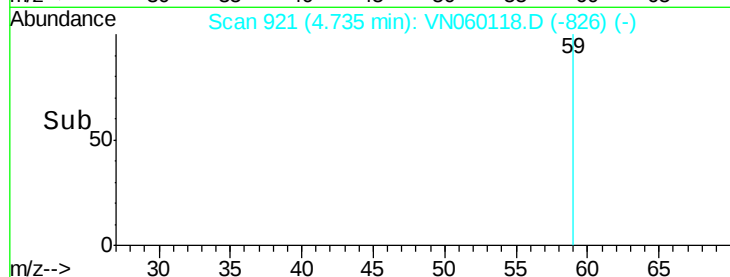
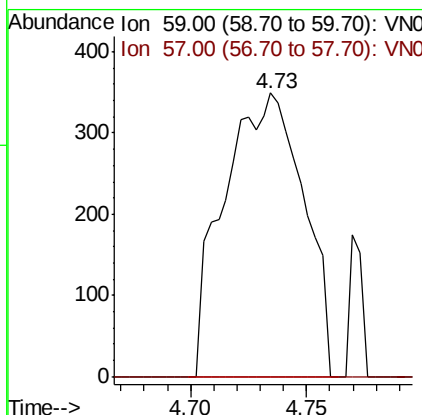
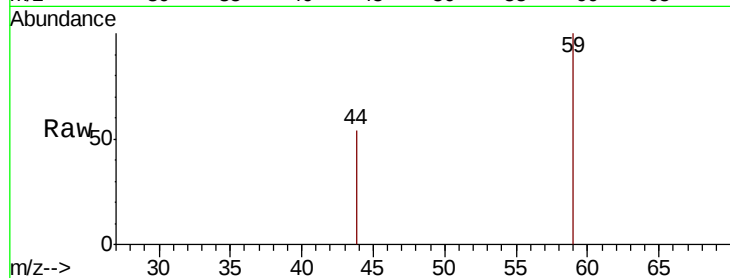


#11

Tert butyl alcohol
 Concen: 2.408 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Instrument :
 MSVOA_N
 ClientSampleId :

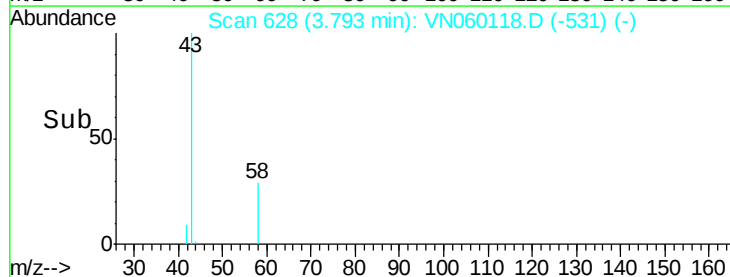
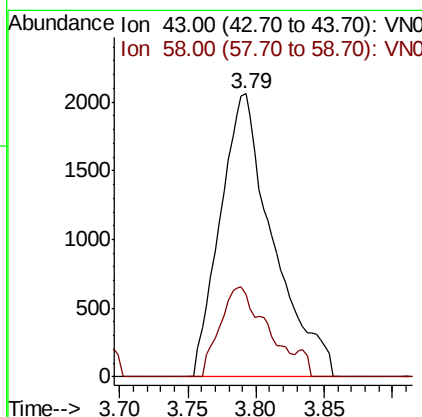
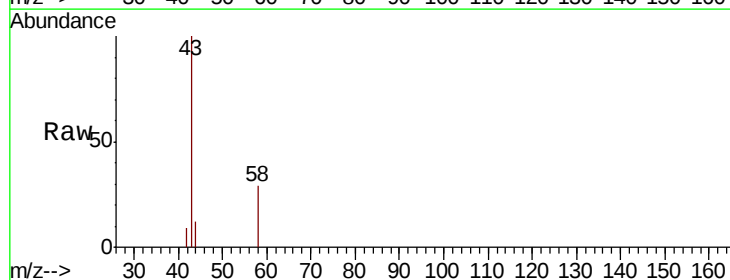
Tot Ion: 59 Resp: 831
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

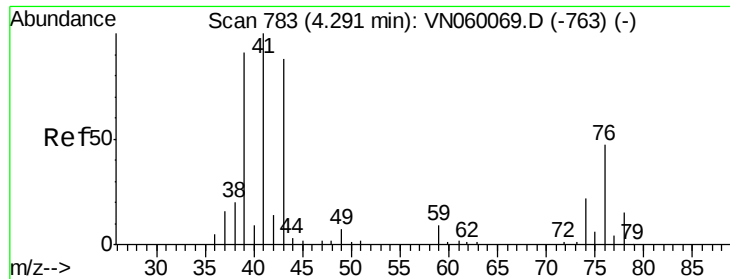


#16

Acetone
 Concen: 5.492 ug/l
 RT: 3.79 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Tgt Ion: 43 Resp: 5525
 Ion Ratio Lower Upper
 43 100
 58 29.1 25.2 37.8

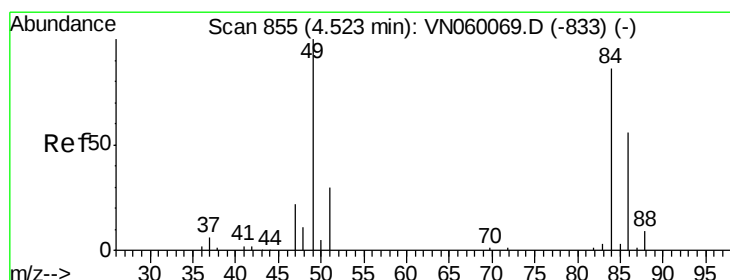
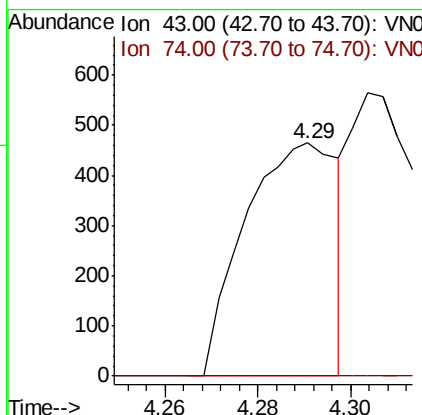
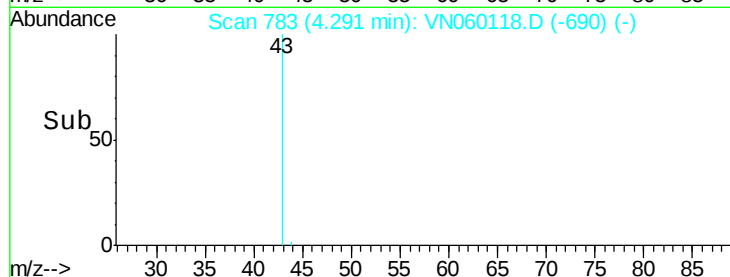
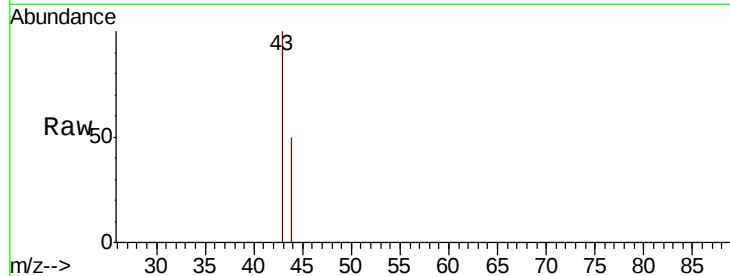




#18
Methyl Acetate
Concen: 0.341 ug/l
RT: 4.29 min Scan# 783
Delta R.T. -0.00 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

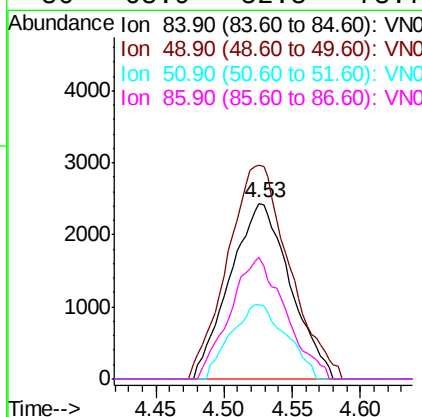
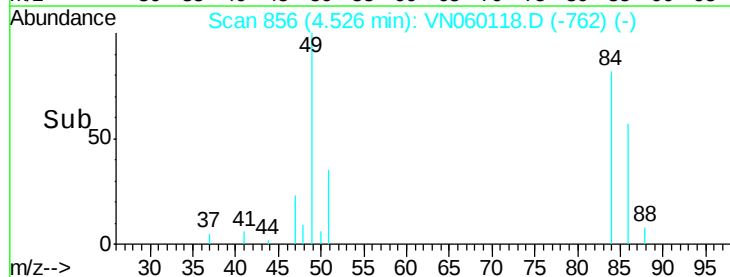
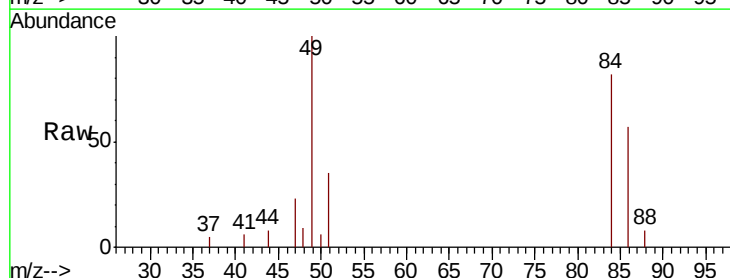
Instrument :
MSVOA_N
ClientSampled :

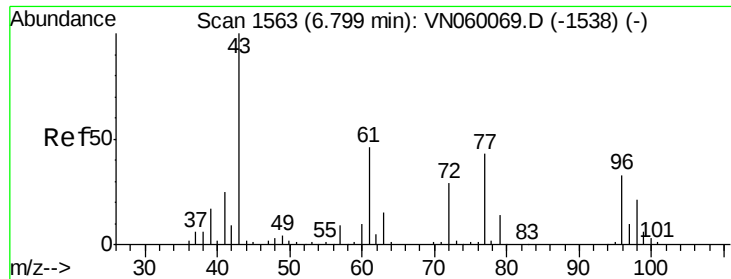
Tot Ion: 43 Resp: 645
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 3.721 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

Tgt Ion: 84 Resp: 7467
Ion Ratio Lower Upper
84 100
49 121.4 93.4 140.0
51 42.4 28.4 42.6
86 68.9 52.5 78.7

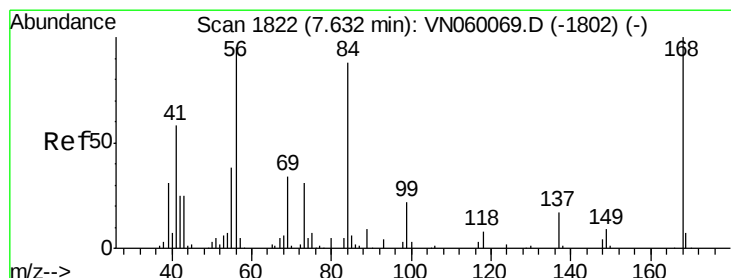
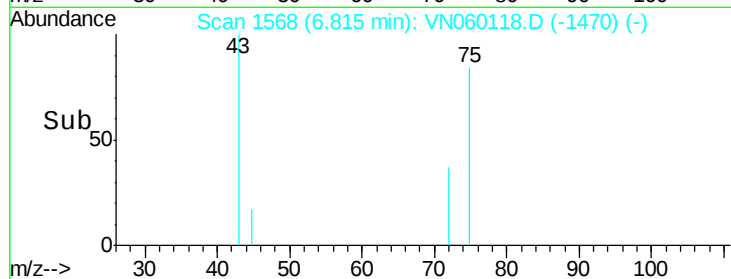
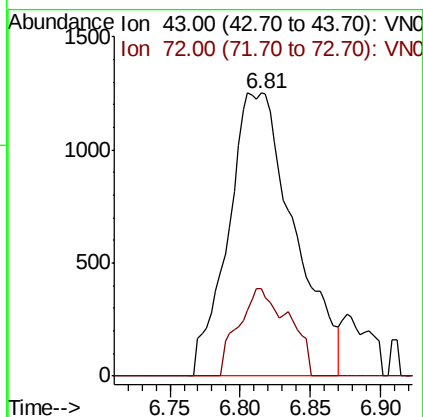
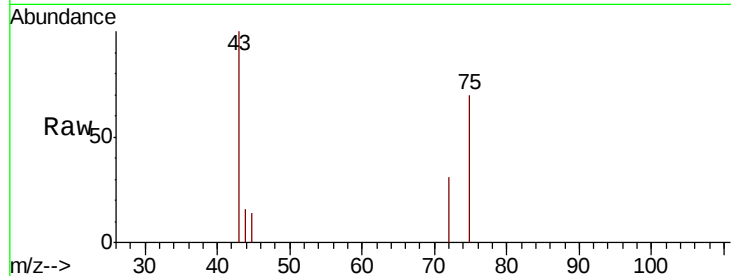




#25
2-Butanone
Concen: 3.226 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

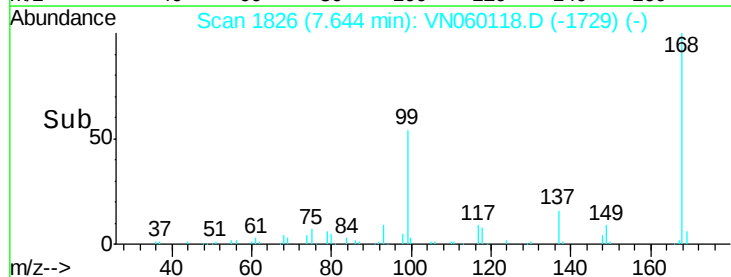
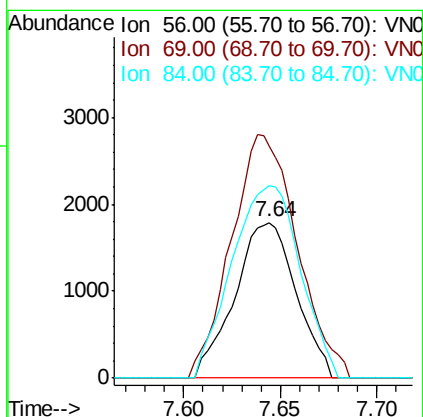
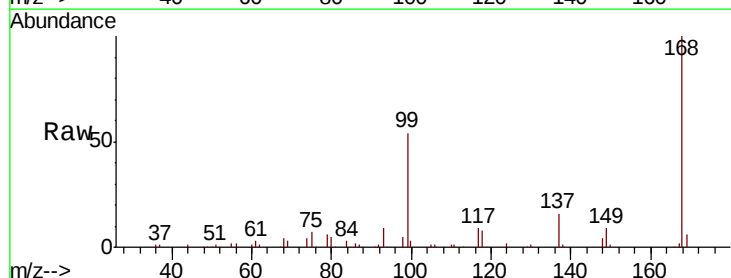
Instrument :
MSVOA_N
ClientSampled :

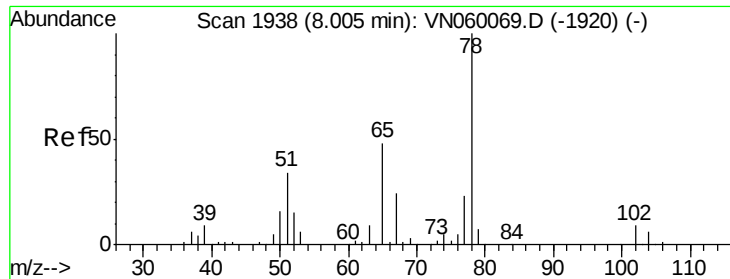
Tot Ion: 43 Resp: 4081
Ion Ratio Lower Upper
43 100
72 30.7 23.3 34.9



#31
Cyclohexane
Concen: 1.207 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

Tgt Ion: 56 Resp: 3938
Ion Ratio Lower Upper
56 100
69 149.8 28.3 42.5#
84 123.9 72.6 108.8#

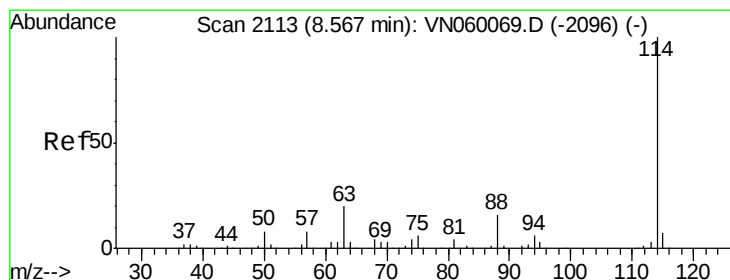
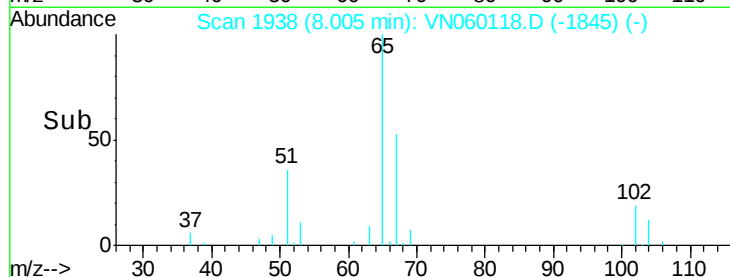
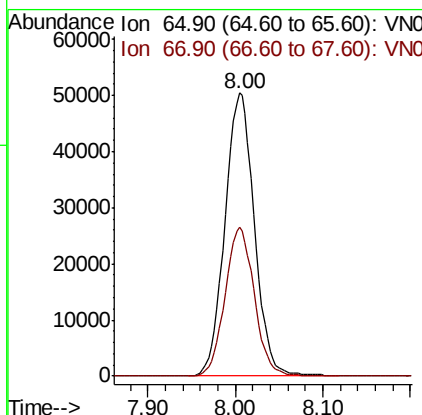
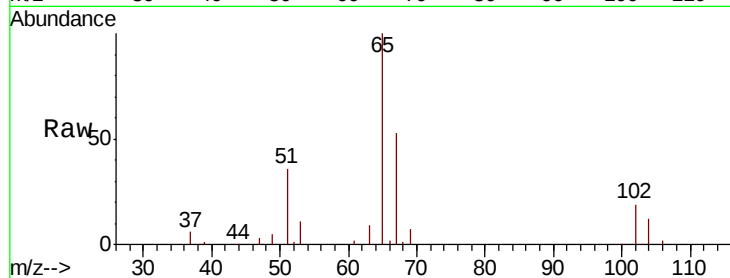




#33
 1,2-Dichloroethane-d4
 Concen: 51.127 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

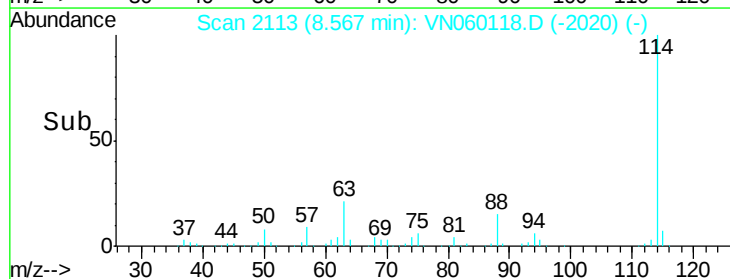
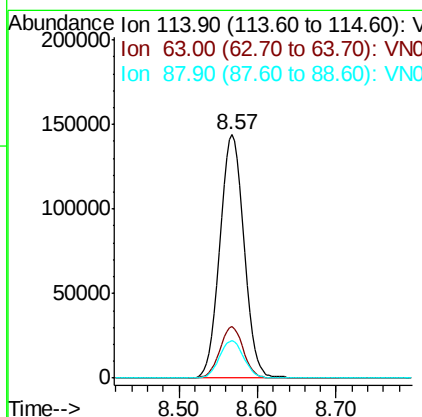
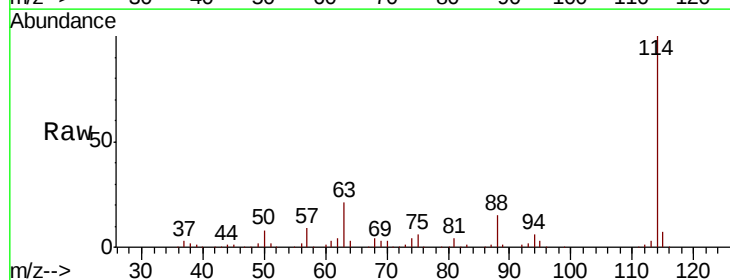
Instrument :
 MSVOA_N
 ClientSampled :

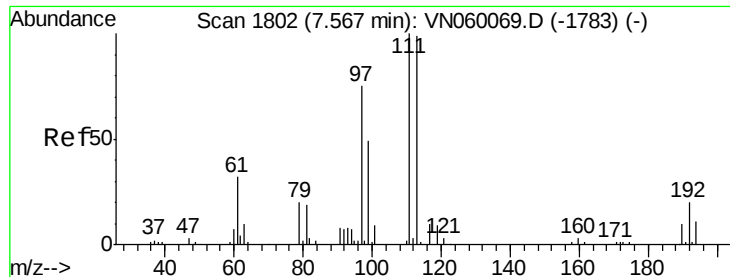
Tot Ion: 65 Resp: 117910
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Tgt Ion: 114 Resp: 304965
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.0
 88 15.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.160 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :
MSVOA_N
ClientSampleId :

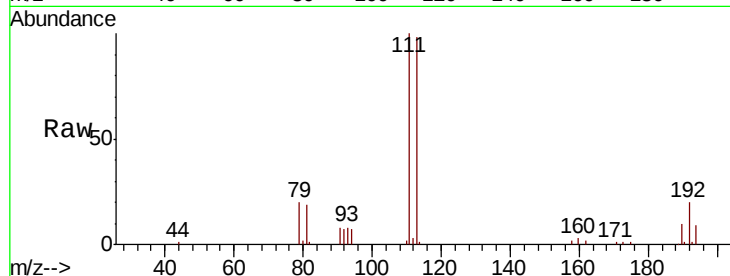
Tot Ion:113 Resp: 92157

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.4	122.2
192	20.2	16.2	24.2

113 100

111 103.2 81.4 122.2

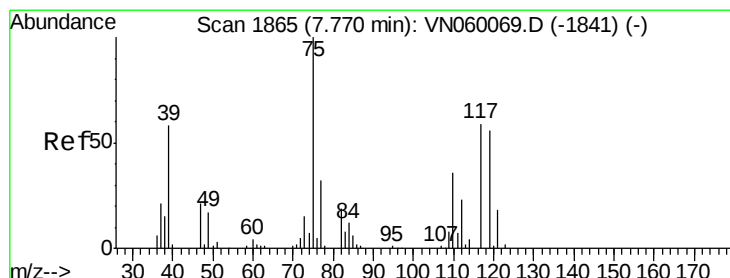
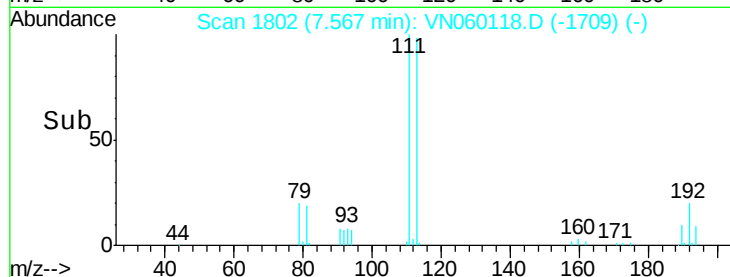
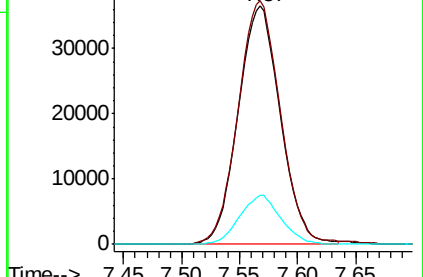
192 20.2 16.2 24.2



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: 4.988 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

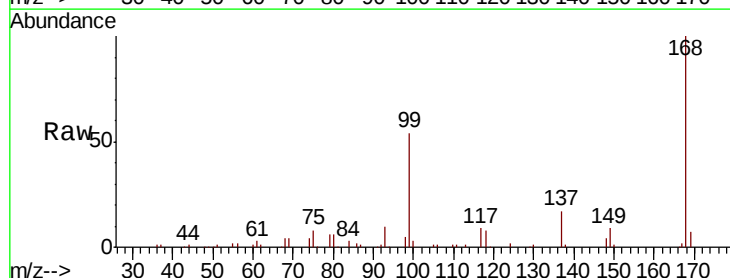
Tgt Ion: 75 Resp: 14091

Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.3#
77	0.0	25.1	37.7#

75 100

110 9.1 18.1 54.3#

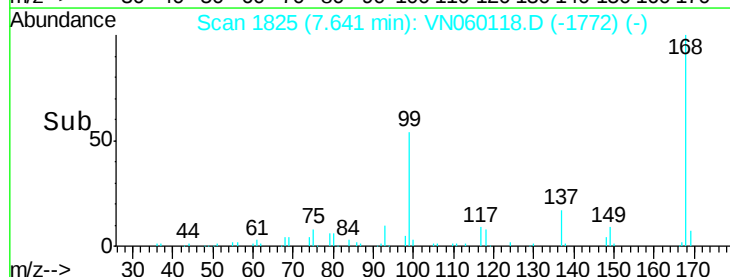
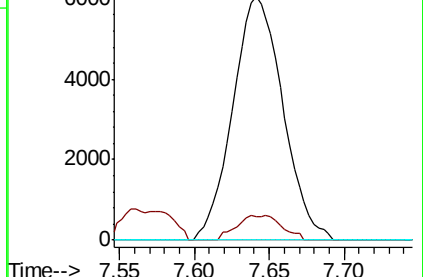
77 0.0 25.1 37.7#

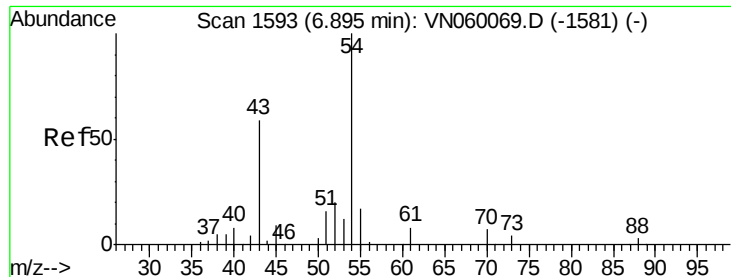


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

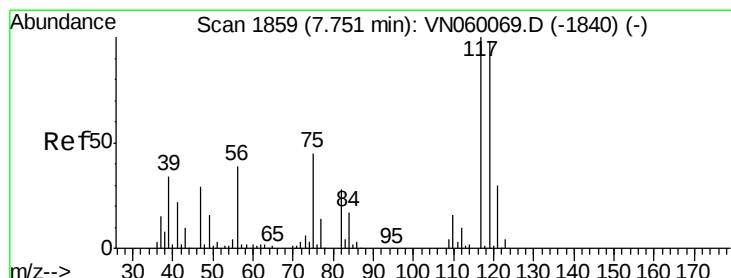
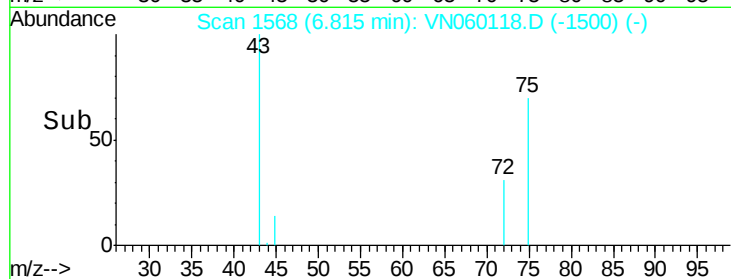
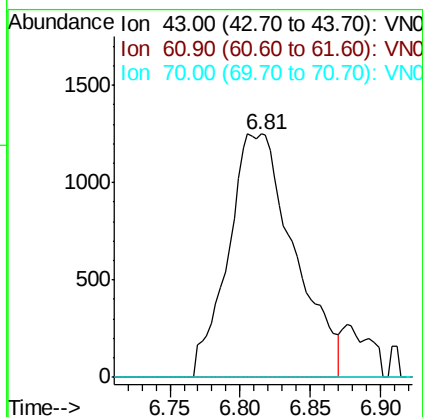
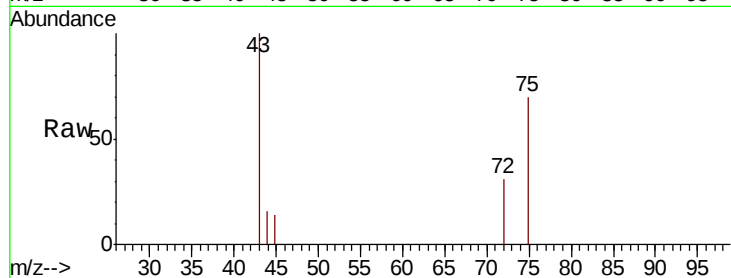




#37
Ethyl Acetate
Concen: 1.599 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

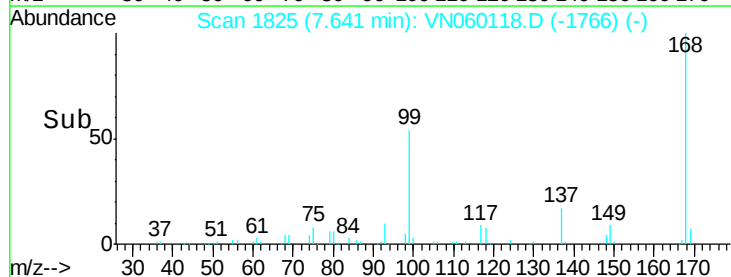
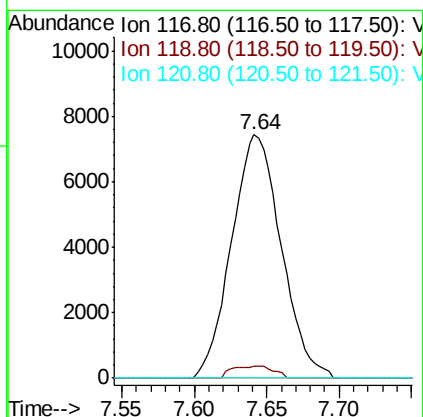
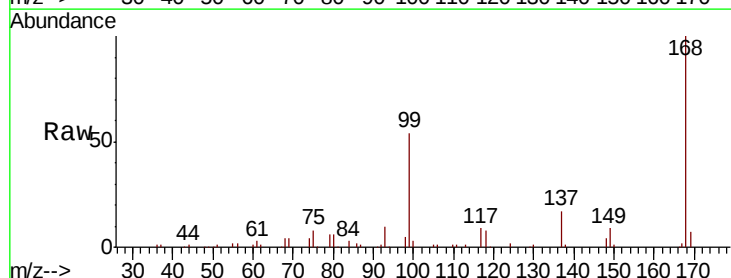
Instrument :
MSVOA_N
ClientSampled :

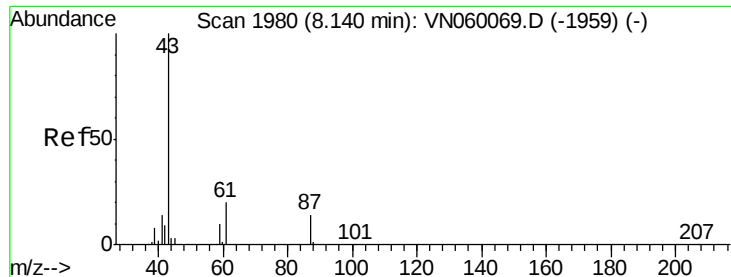
Tot Ion: 43 Resp: 4081
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.769 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

Tgt Ion: 117 Resp: 17698
Ion Ratio Lower Upper
117 100
119 4.7 78.2 117.4#
121 0.0 24.2 36.2#



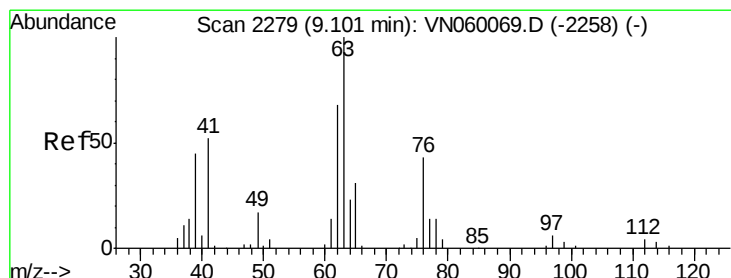
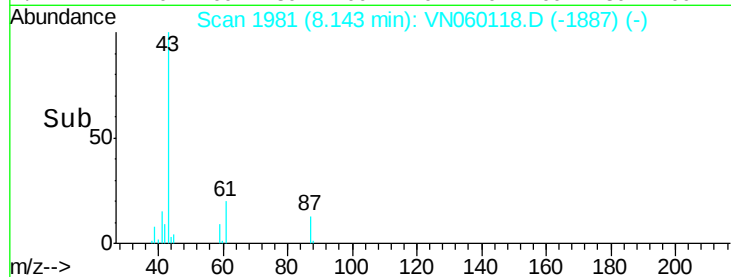
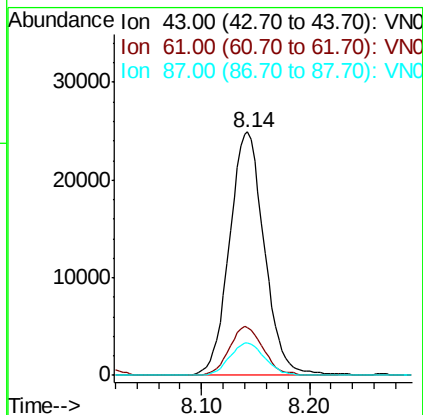
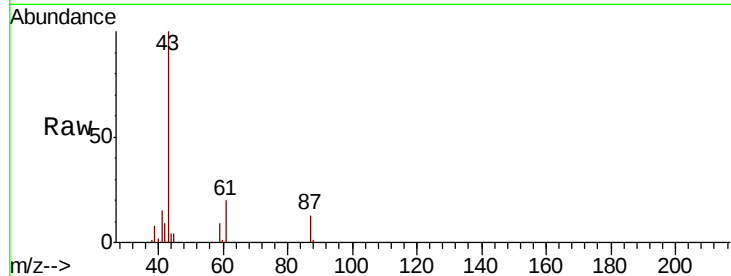


#43

Isopropyl Acetate
 Concen: 12.840 ug/l
 RT: 8.14 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Instrument :
 MSVOA_N
 ClientSampleId :

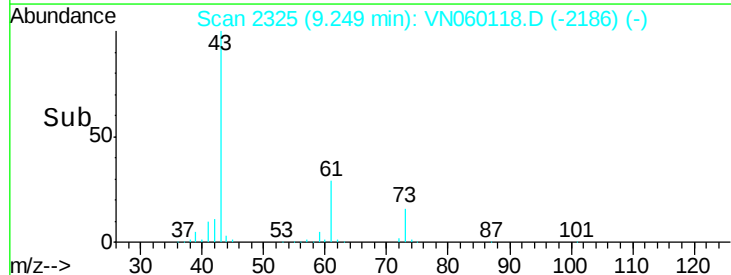
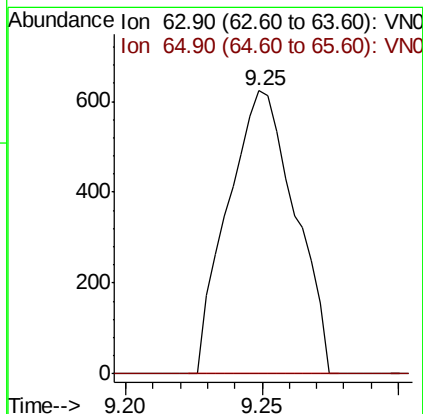
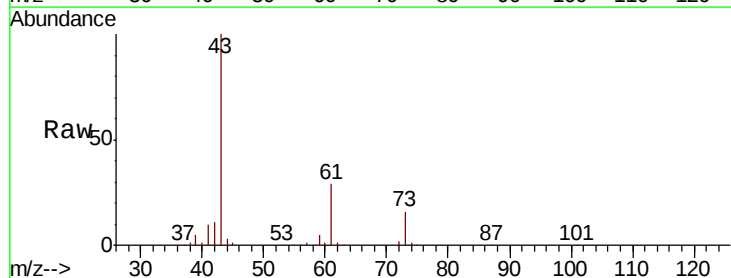
Tot Ion	43	Resp	56034
Ion Ratio	Lower	Upper	
43	100		
61	19.5	21.8	32.6#
87	13.4	11.4	17.2

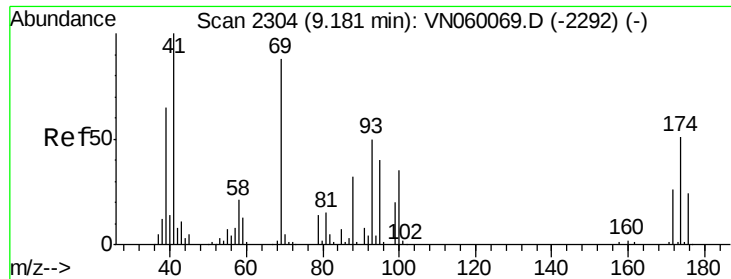


#45

1,2-Dichloropropane
 Concen: 0.513 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Tgt Ion	63	Resp	1064
Ion Ratio	Lower	Upper	
63	100		
65	0.0	25.0	37.4#

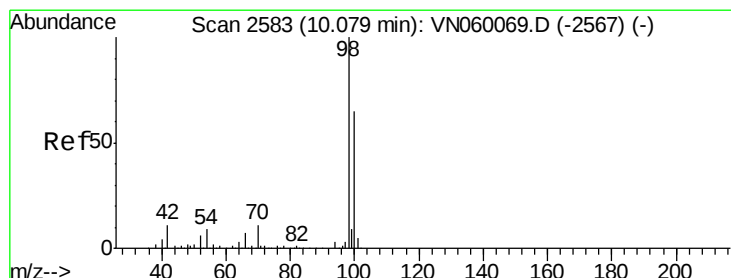
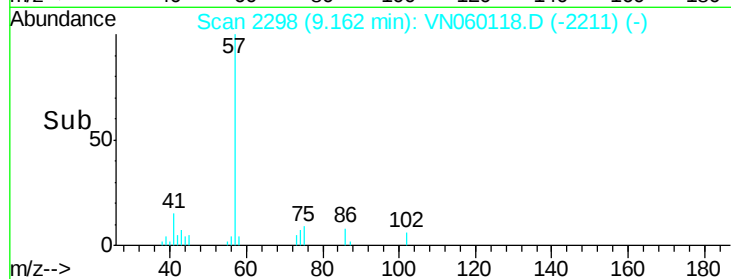
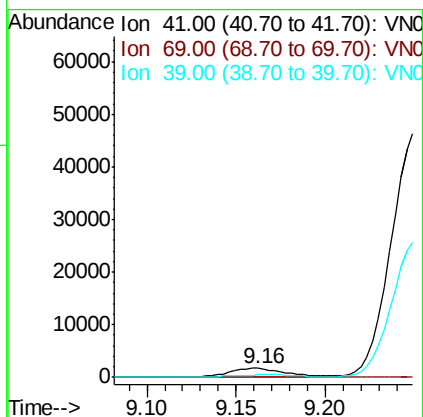
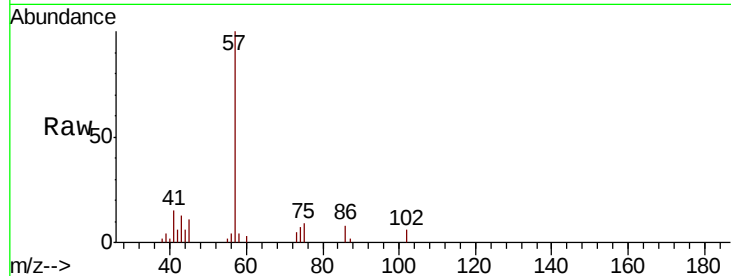




#48
Methvl methacrylate
Concen: 1.989 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

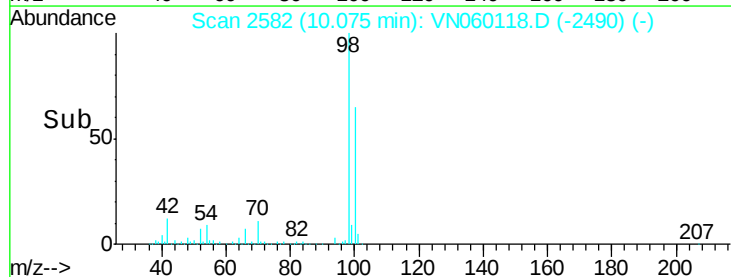
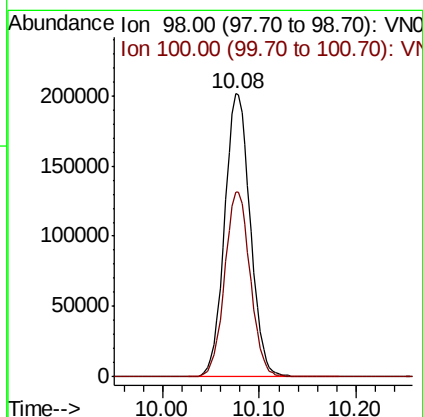
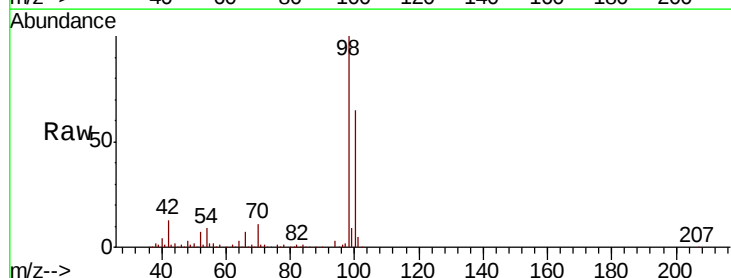
Instrument :
MSVOA_N
ClientSampled :

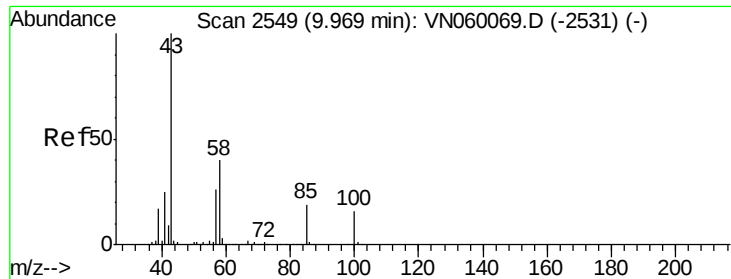
Tot Ion: 41 Resp: 3894
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#



#50
Toluene-d8
Concen: 50.201 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060118.D
Acq: 17 Feb 2020 14:44

Tgt Ion: 98 Resp: 370594
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.581 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

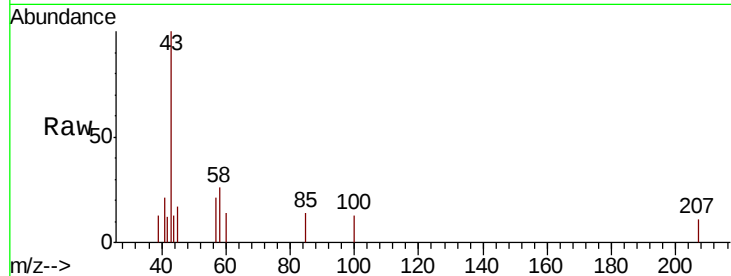
ClientSampled :

Tot Ion: 43 Resp: 3994

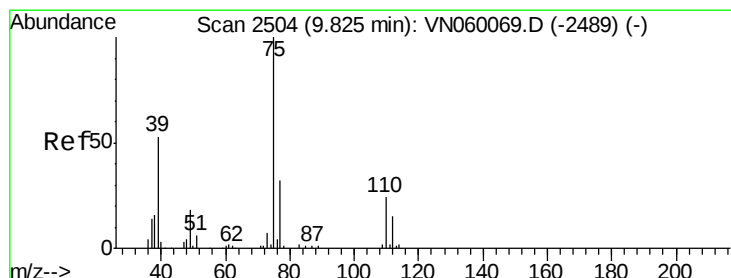
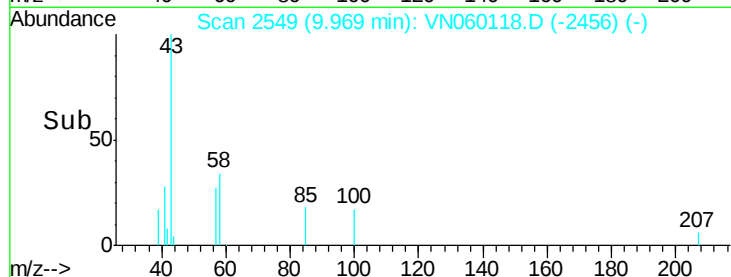
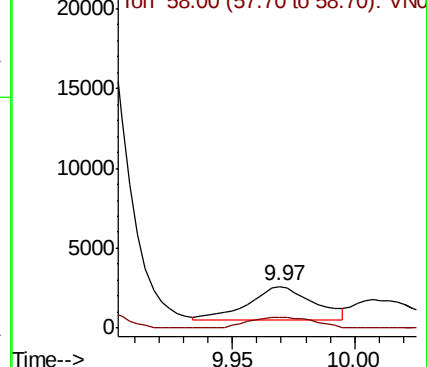
Ion Ratio Lower Upper

43 100

58 31.8 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN060118.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.998 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

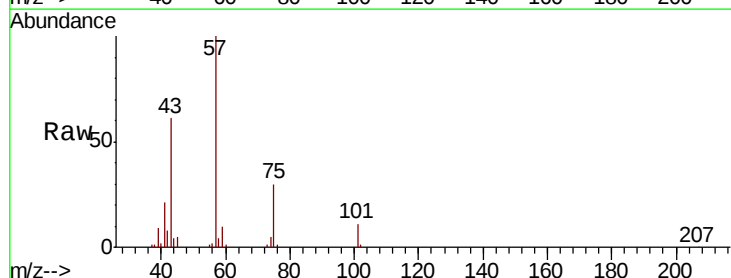
Tgt Ion: 75 Resp: 24792

Ion Ratio Lower Upper

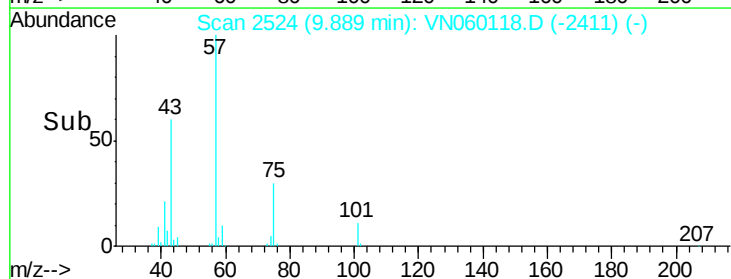
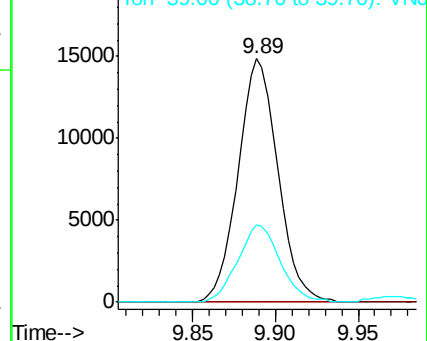
75 100

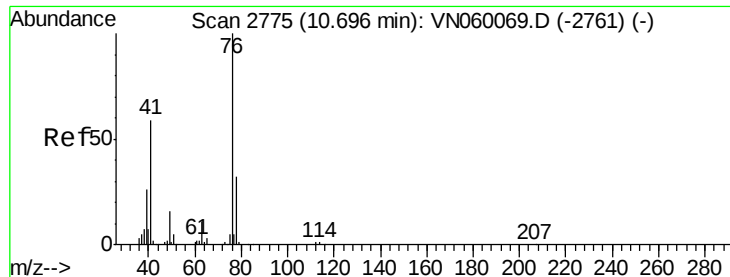
77 0.0 25.6 38.4#

39 31.7 42.2 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060118.D (-2411) (-)

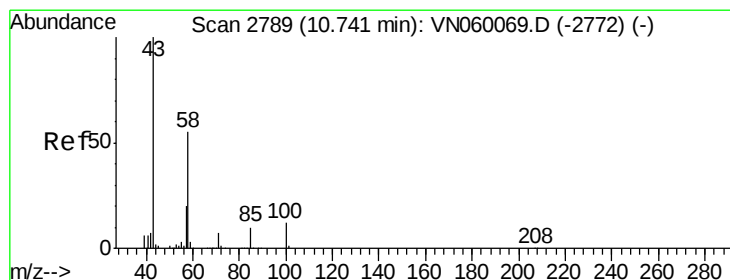
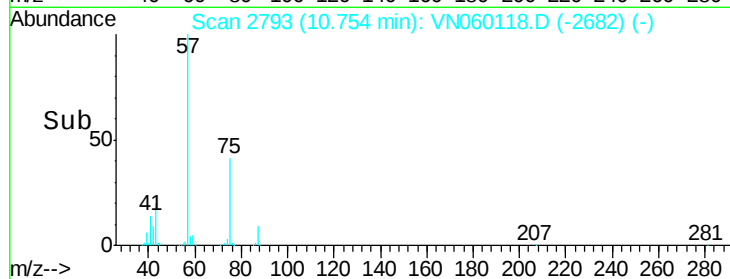
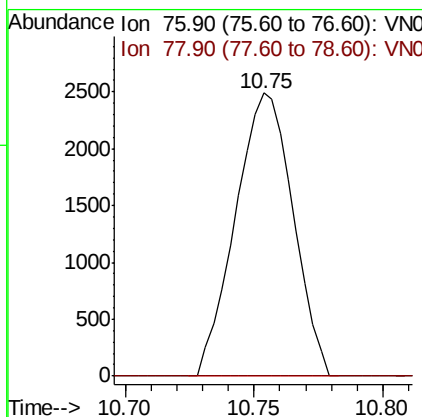
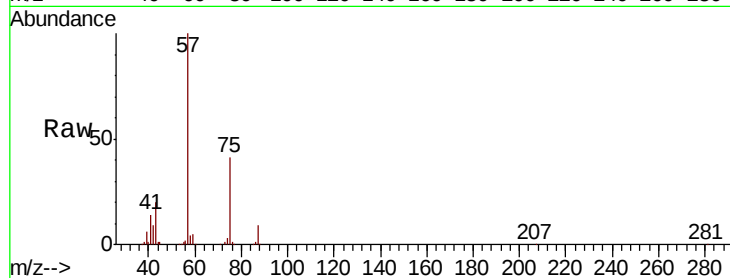




#57
 1,3-Dichloropropane
 Concen: 1.119 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

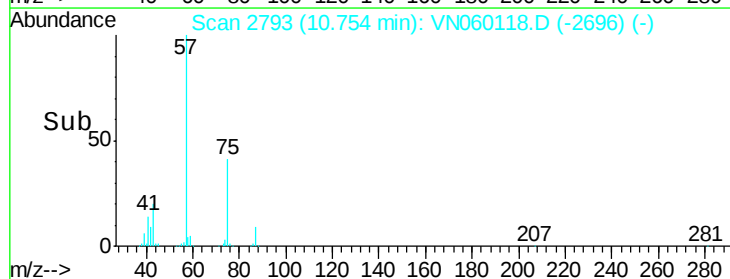
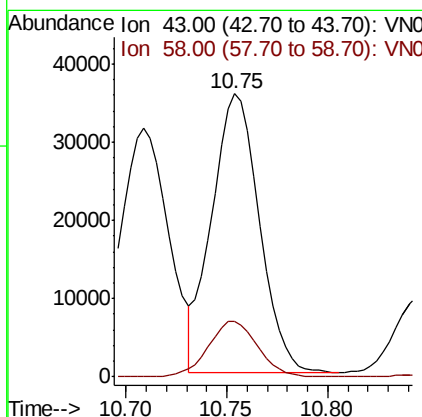
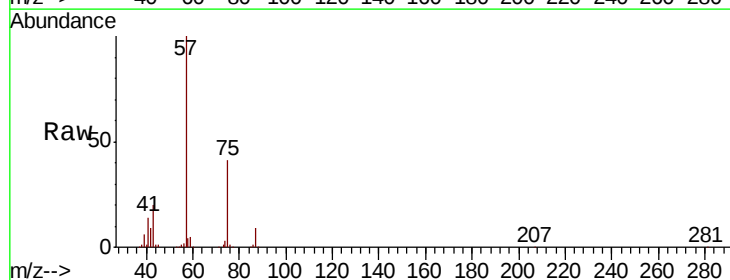
Instrument :
 MSVOA_N
 ClientSampled :

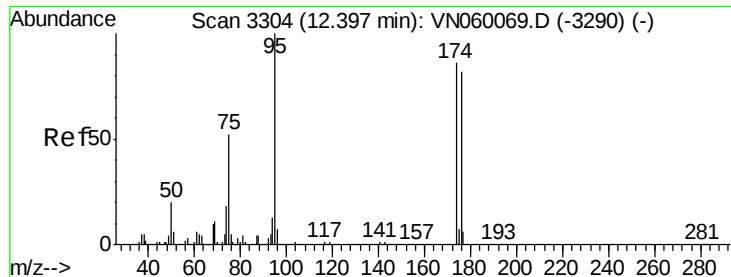
Tot Ion: 76 Resp: 3869
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 30.061 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060118.D
 Acq: 17 Feb 2020 14:44

Tgt Ion: 43 Resp: 58655
 Ion Ratio Lower Upper
 43 100
 58 20.6 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 50.188 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

ClientSampled :

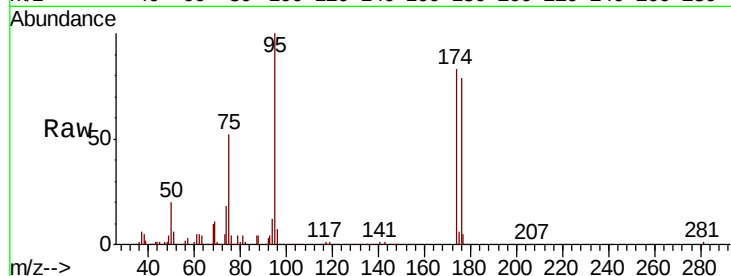
Tot Ion: 95 Resp: 136139

Ion Ratio Lower Upper

95 100

174 82.2 0.0 169.8

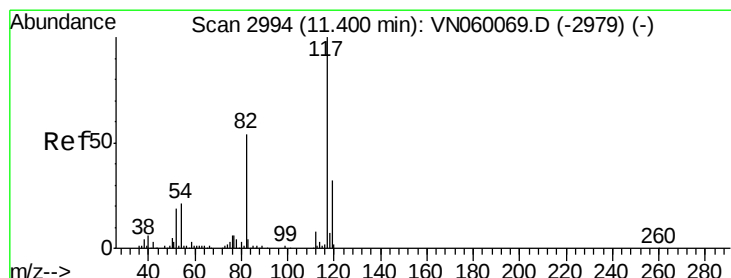
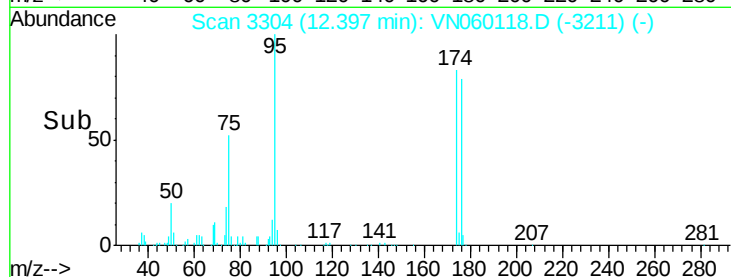
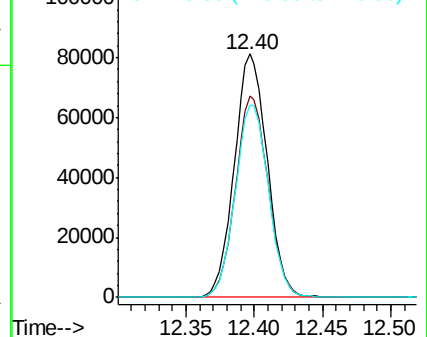
176 80.0 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060118.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060118.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060118.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

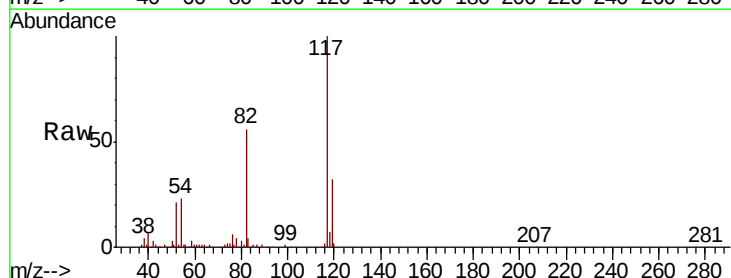
Tgt Ion: 117 Resp: 286908

Ion Ratio Lower Upper

117 100

82 55.7 43.4 65.0

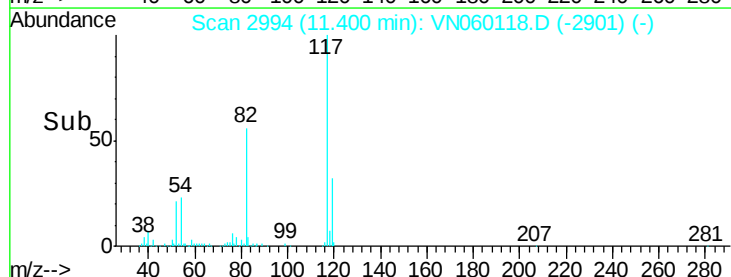
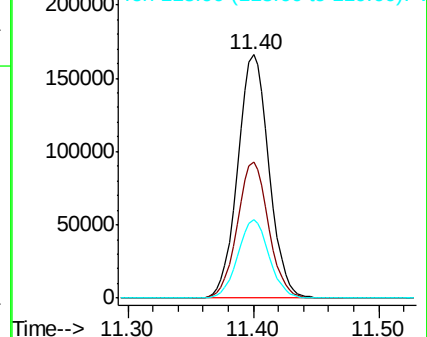
119 32.0 25.8 38.6

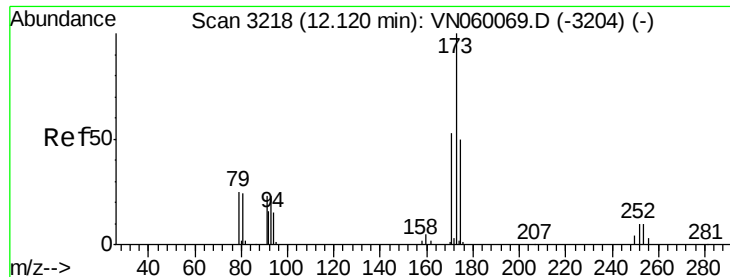


Abundance Ion 116.90 (116.60 to 117.60): VN060118.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060118.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060118.D (-2901) (-)





#71

Bromoform

Concen: 0.292 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

ClientSampleId :

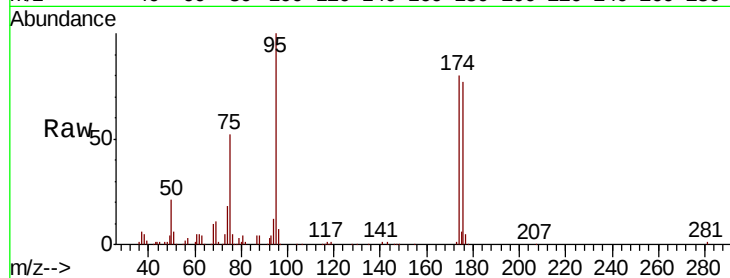
Tot Ion:173 Resp: 519

Ion Ratio Lower Upper

173 100

175 1340.3 24.9 74.6#

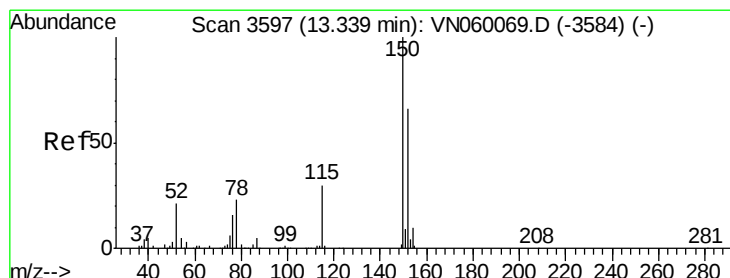
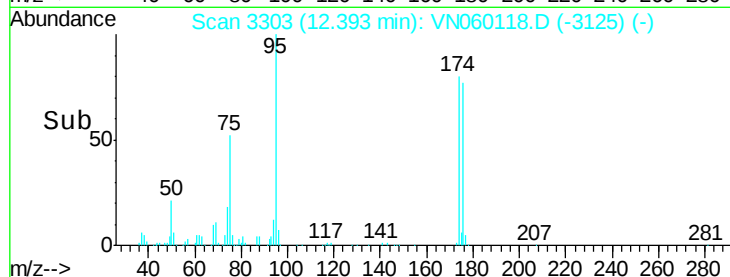
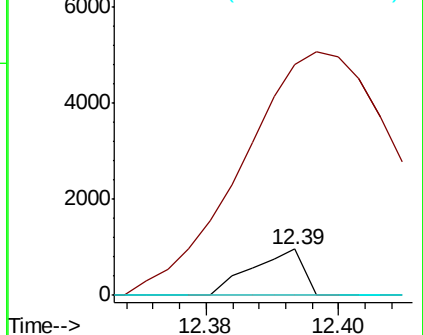
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

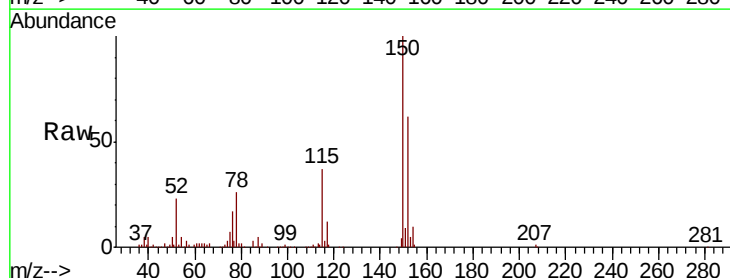
Tgt Ion:152 Resp: 127778

Ion Ratio Lower Upper

152 100

115 59.1 28.9 86.8

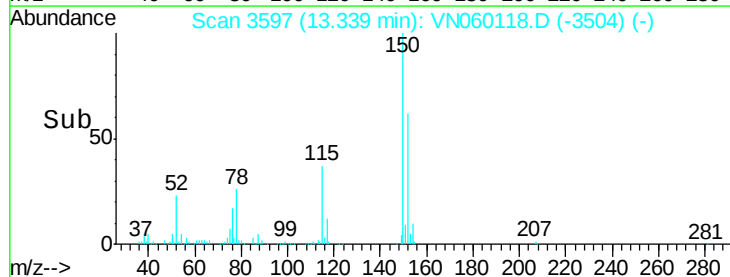
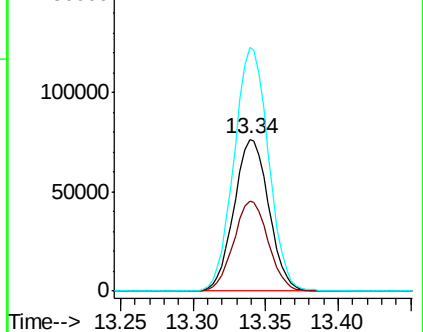
150 159.4 0.0 342.4

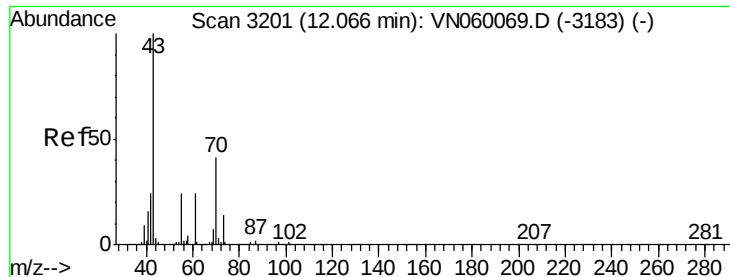


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.983 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3382

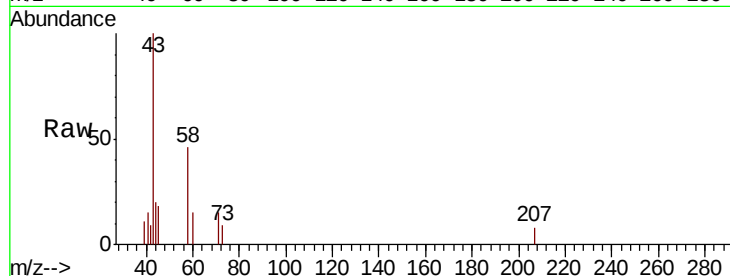
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

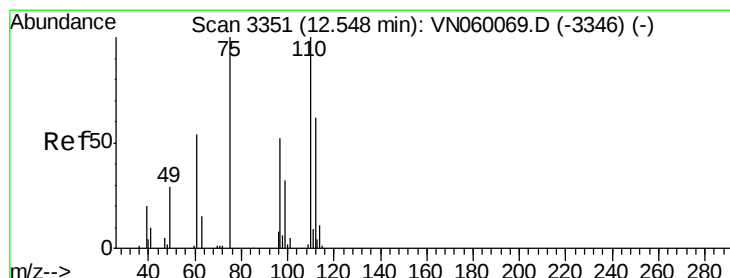
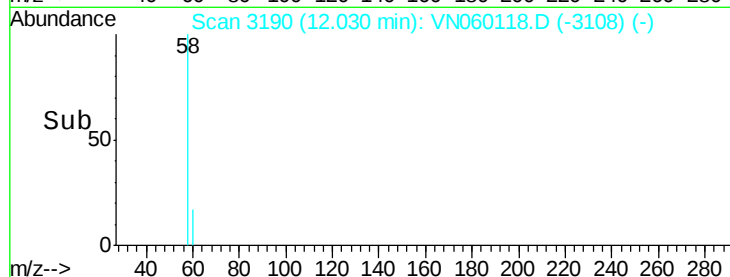
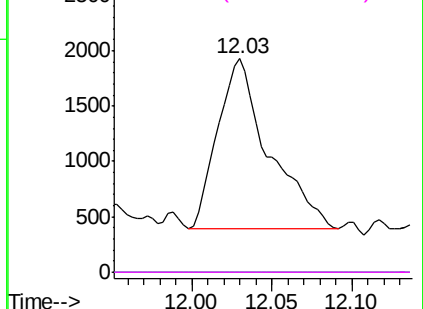


Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-3183) (-)

Ion 70.00 (69.70 to 70.70): VN060069.D (-3183) (-)

Ion 55.00 (54.70 to 55.70): VN060069.D (-3183) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-3183) (-)



#76

1,2,3-Trichloropropane

Concen: 29.091 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060118.D

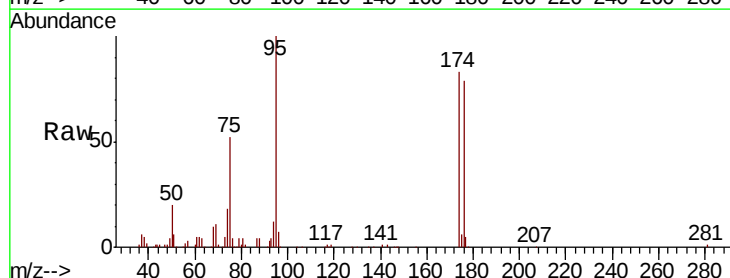
Acq: 17 Feb 2020 14:44

Tgt Ion: 75 Resp: 71117

Ion Ratio Lower Upper

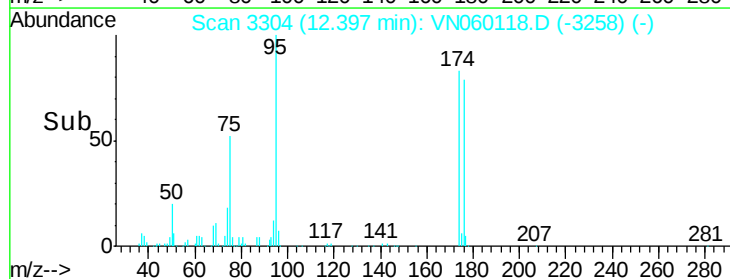
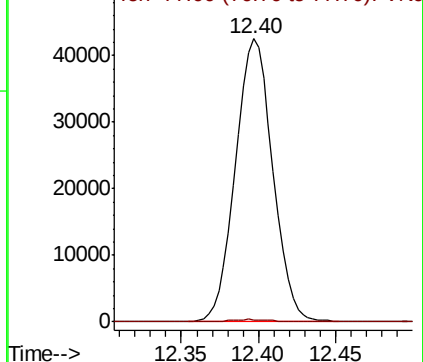
75 100

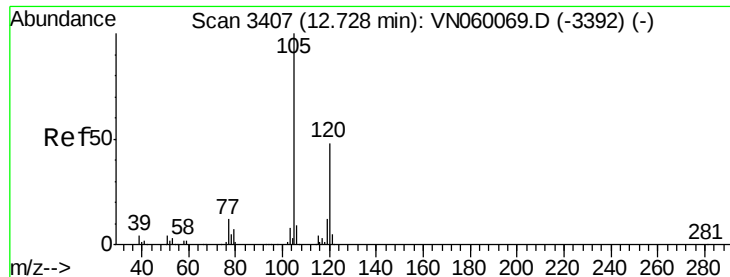
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3346) (-)





#80

1,3,5-Trimethylbenzene

Concen: 0.244 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

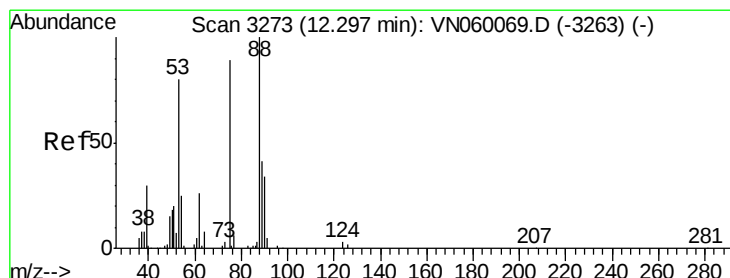
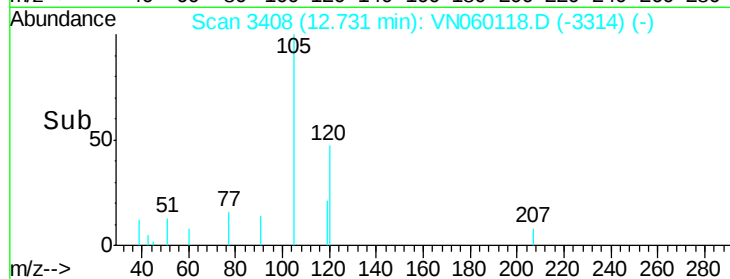
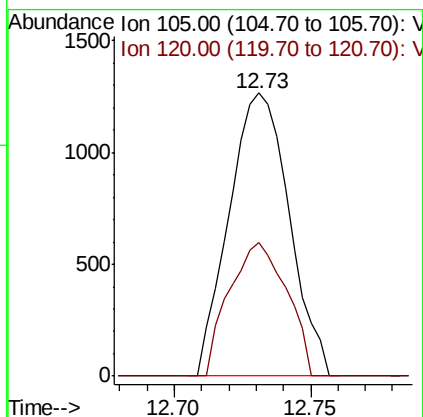
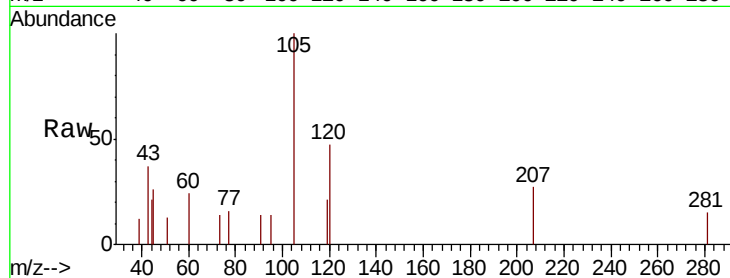
ClientSampleId :

Tot Ion:105 Resp: 1932

Ion Ratio Lower Upper

105 100

120 45.3 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 71.229 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

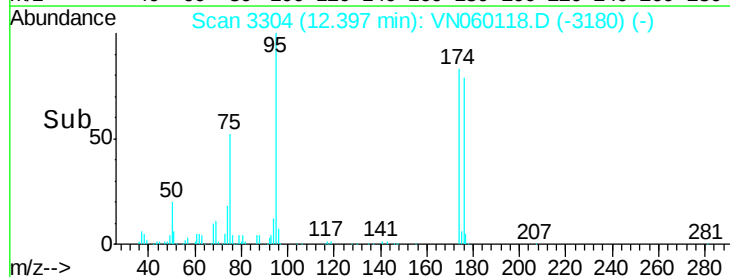
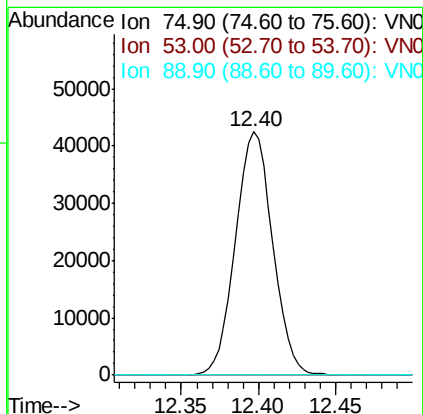
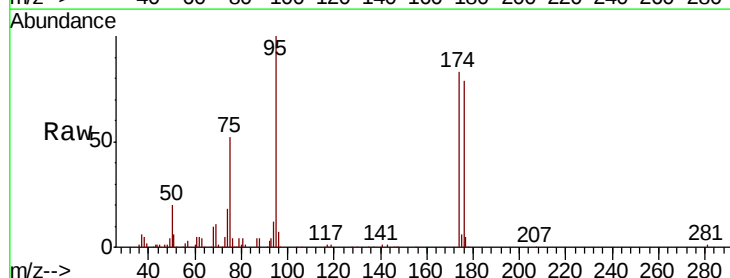
Tgt Ion: 75 Resp: 71117

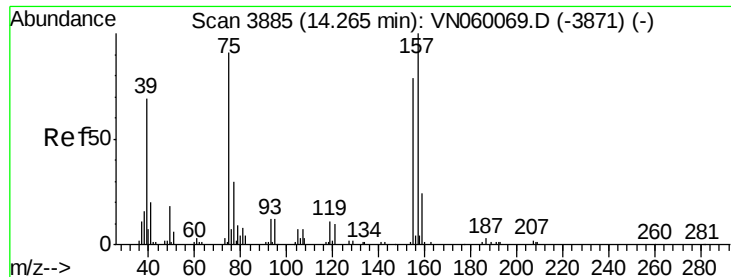
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.0 55.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN060118.D

Acq: 17 Feb 2020 14:44

Instrument :

MSVOA_N

ClientSampleId :

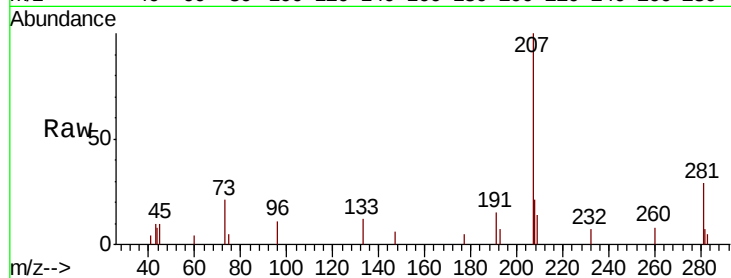
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

