

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050620\
 Data File : VN061312.D
 Acq On : 6 May 2020 16:13
 Operator : JC/MD
 Sample : PB128690TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 07 03:11:19 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	89527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	156953	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	148738	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	64388	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	71723	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
35) Dibromofluoromethane	7.55	113	34050	36.69	ug/l	0.00
Spiked Amount			Recovery	=	73.38%	
50) Toluene-d8	10.06	98	193656	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	12.38	95	71306	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	

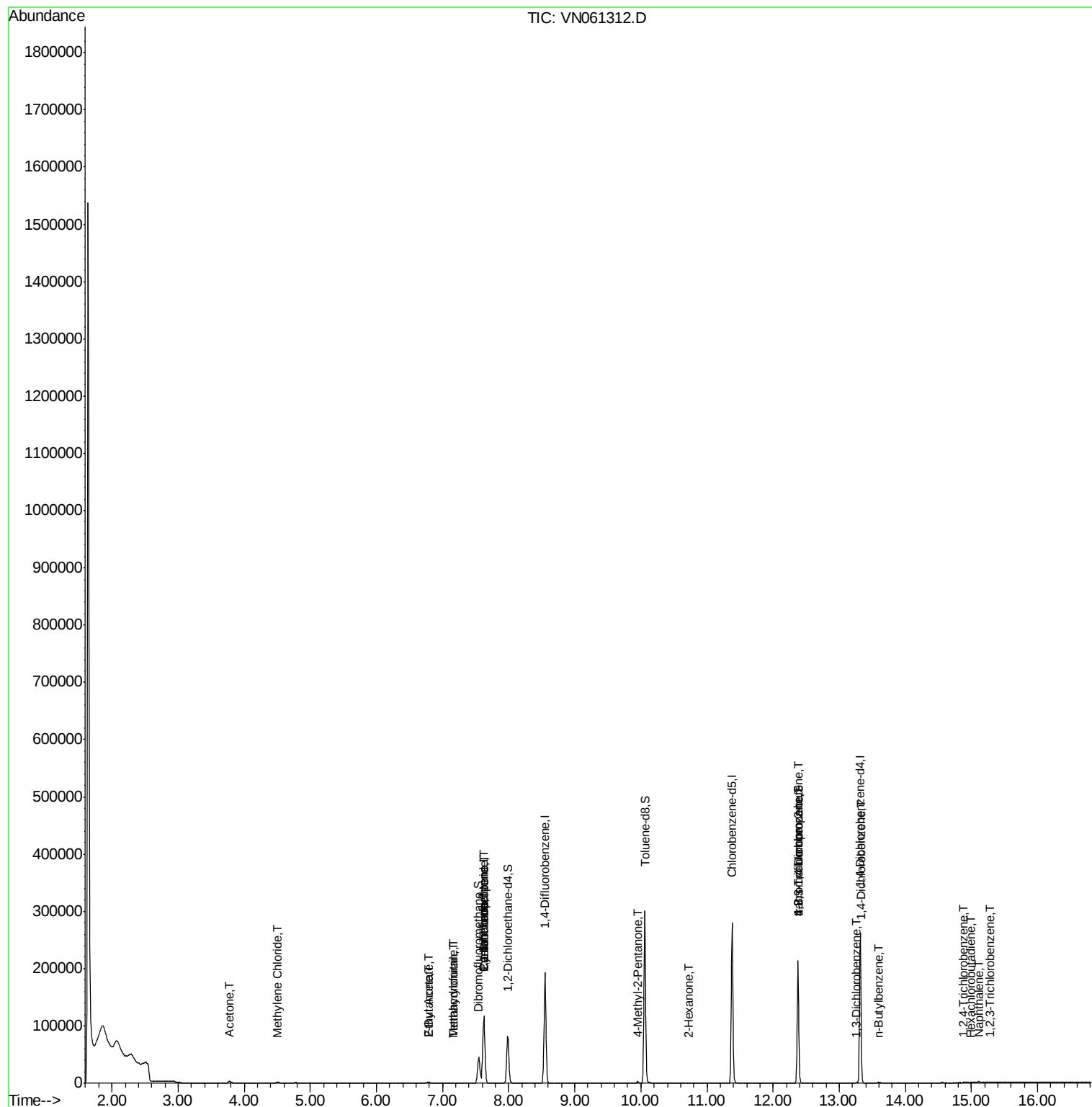
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	6438	6.367	ug/l	97
20) Methylene Chloride	4.50	84	1135	1.028	ug/l	94
25) 2-Butanone	6.80	43	2146	2.560	ug/l #	89
29) Tetrahydrofuran	7.16	42	178	0.315	ug/l #	37
31) Cyclohexane	7.62	56	2495	1.211	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	8070	5.136	ug/l #	50
37) Ethyl Acetate	6.80	43	2146	1.165	ug/l #	71
38) Carbon Tetrachloride	7.62	117	9681	8.731	ug/l #	17
41) Methacrylonitrile	7.16	41	205	0.268	ug/l #	100
51) 4-Methyl-2-Pentanone	9.95	43	2186	1.215	ug/l	98
59) 2-Hexanone	10.72	43	649	0.496	ug/l	74
76) 1,2,3-Trichloropropane	12.38	75	40056	29.508	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	40056	74.934	ug/l #	8
87) 1,3-Dichlorobenzene	13.26	146	409	0.203	ug/l #	67
88) 1,4-Dichlorobenzene	13.34	146	589	0.287	ug/l #	1
89) n-Butylbenzene	13.60	91	832	0.224	ug/l #	83
93) 1,2,4-Trichlorobenzene	14.88	180	578	0.492	ug/l #	92
94) Hexachlorobutadiene	14.99	225	356	0.726	ug/l #	59
95) Naphthalene	15.11	128	2630	0.688	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.29	180	668	0.576	ug/l #	88

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

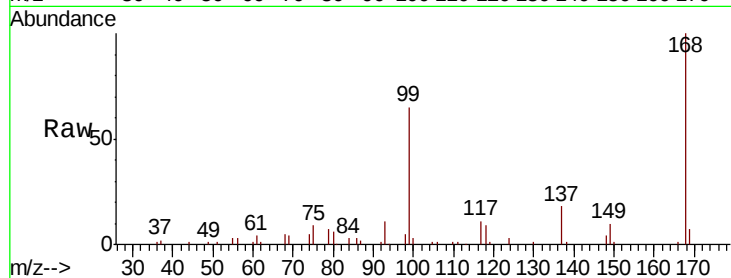
ClientSampleId :

Tot Ion:168 Resp: 89527

Ion Ratio Lower Upper

168 100

99 64.7 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

40000

30000

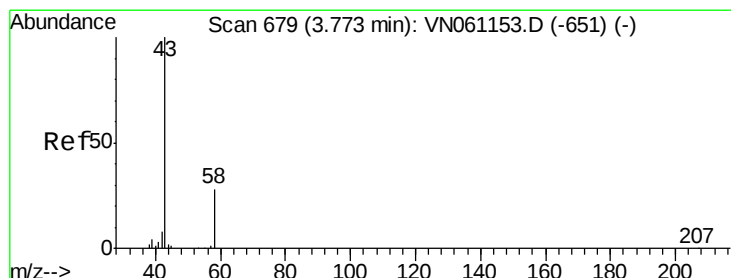
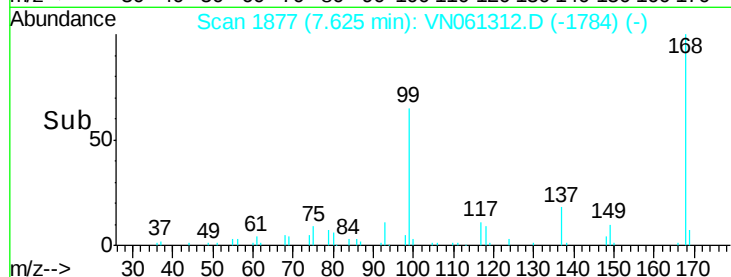
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 6.367 ug/l

RT: 3.78 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN061312.D

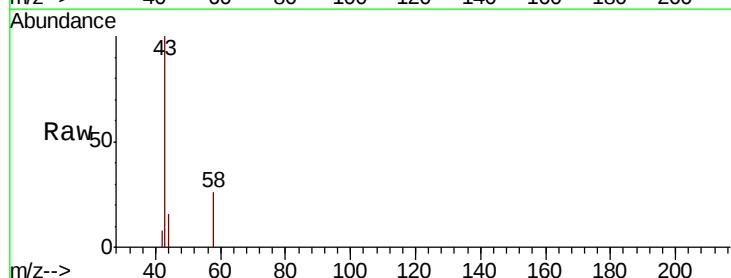
Acq: 6 May 2020 16:13

Tgt Ion: 43 Resp: 6438

Ion Ratio Lower Upper

43 100

58 26.3 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2500

2000

1500

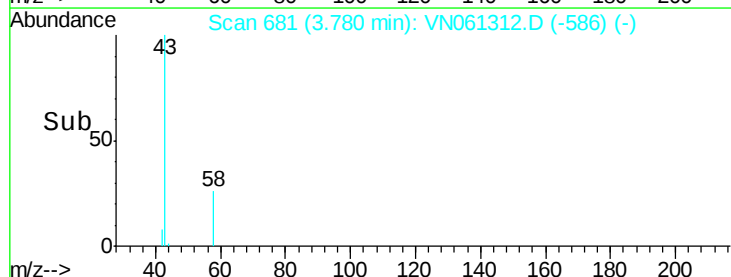
1000

500

0

3.70 3.75 3.80 3.85

Time-->

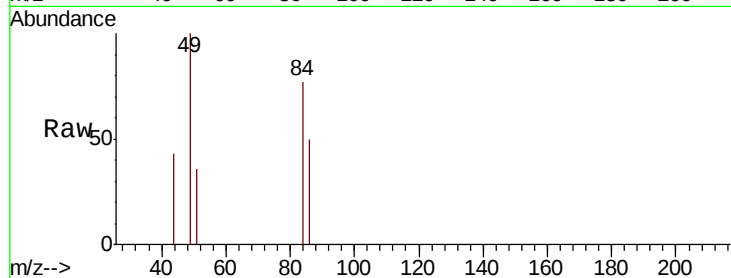




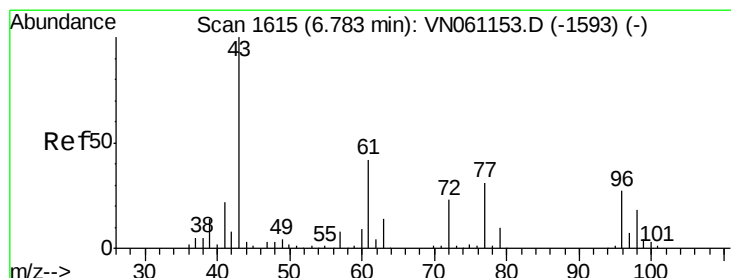
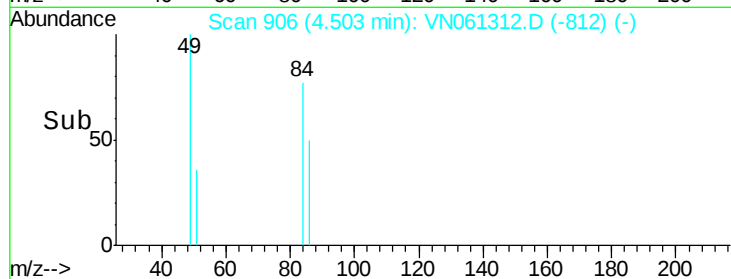
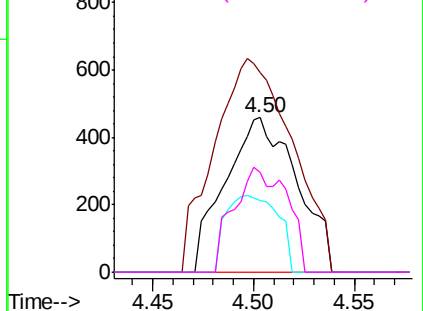
#20
Methvlene Chloride
Concen: 1.028 ug/l
RT: 4.50 min Scan# 906
Delta R.T. 0.00 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 1135
Ion Ratio Lower Upper
84 100
49 129.7 112.0 168.0
51 46.5 33.6 50.4
86 65.1 52.1 78.1

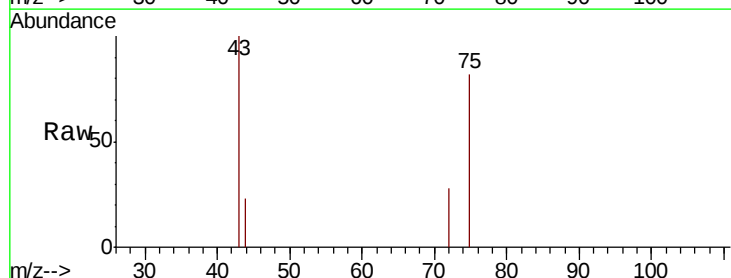


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

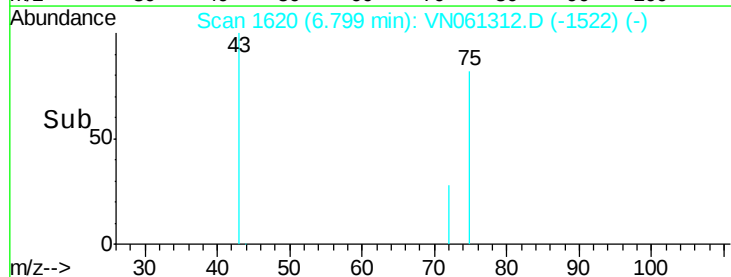
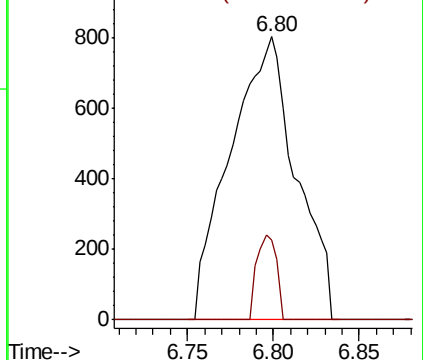


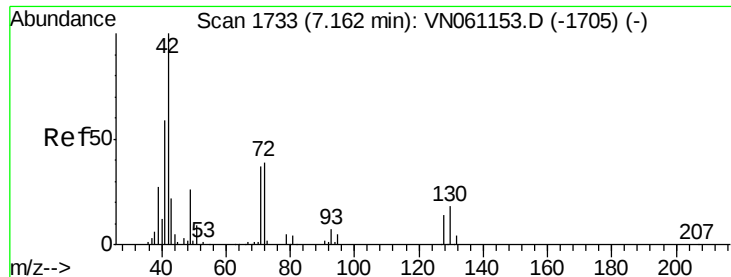
#25
2-Butanone
Concen: 2.560 ug/l
RT: 6.80 min Scan# 1620
Delta R.T. 0.02 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

Tgt Ion: 43 Resp: 2146
Ion Ratio Lower Upper
43 100
72 28.3 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC

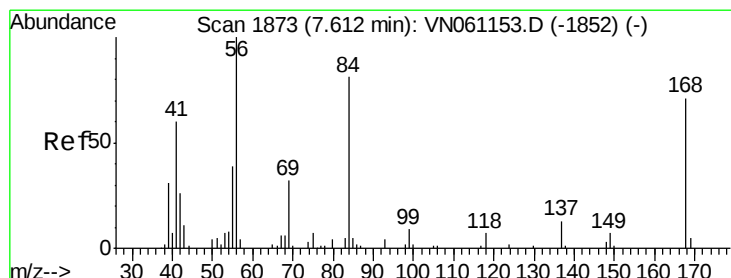
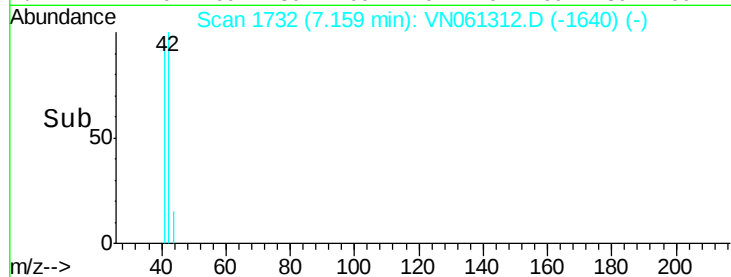
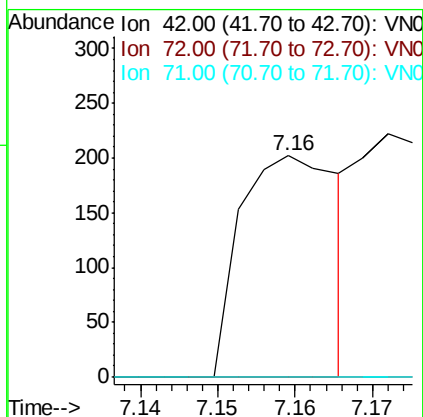
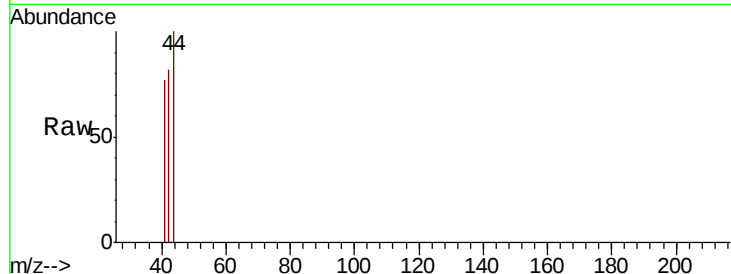




#29
Tetrahydrofuran
Concen: 0.315 ug/l
RT: 7.16 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

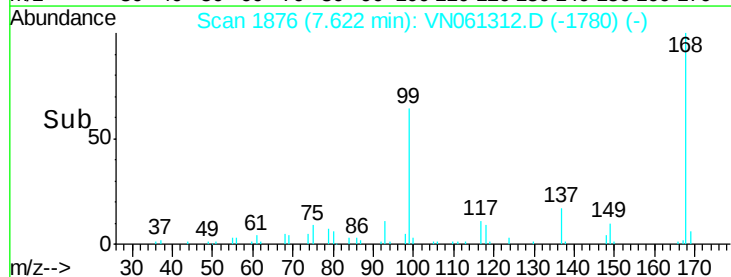
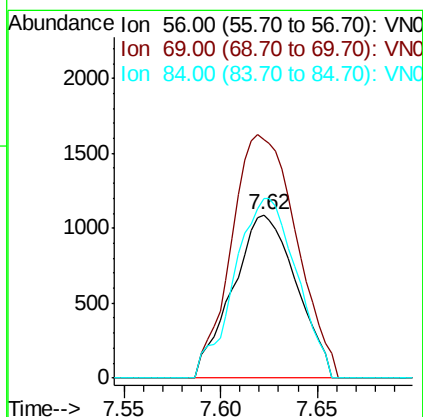
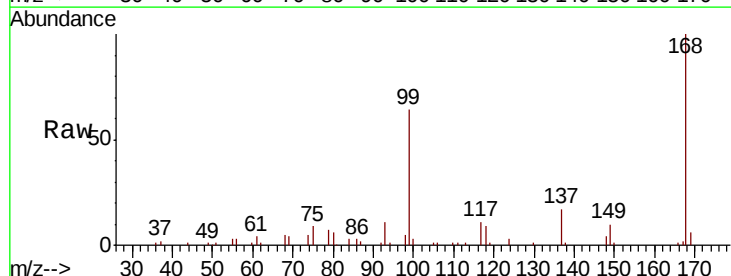
Instrument :
MSVOA_N
ClientSampleId :

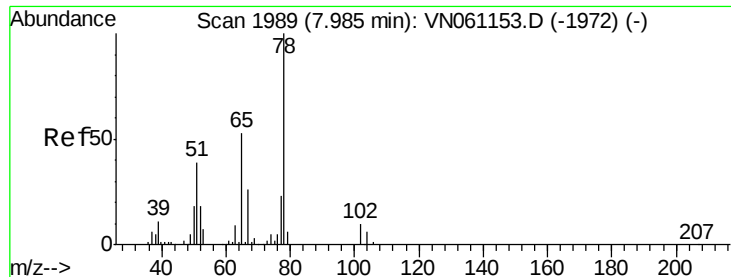
Tot Ion: 42 Resp: 178
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 29.5 44.3#



#31
Cyclohexane
Concen: 1.211 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. 0.01 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

Tgt Ion: 56 Resp: 2495
Ion Ratio Lower Upper
56 100
69 146.7 25.7 38.5#
84 110.2 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 50.631 ug/l

RT: 7.99 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

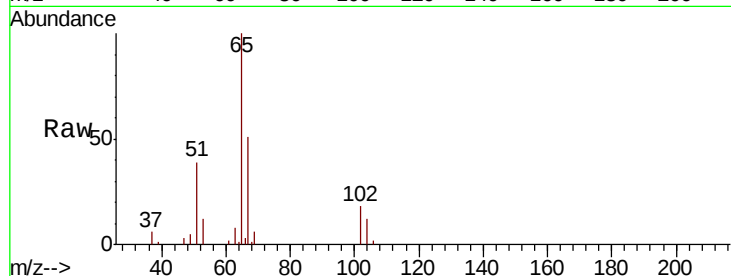
ClientSampleId :

Tot Ion: 65 Resp: 71723

Ion Ratio Lower Upper

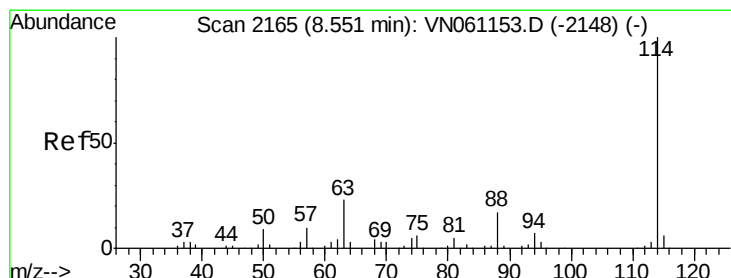
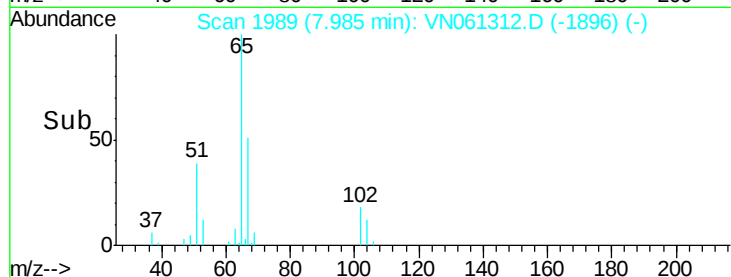
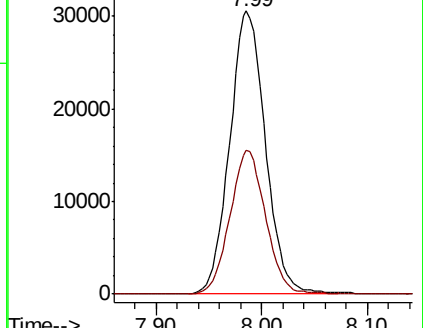
65 100

67 50.6 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN061153.D (-1972) (-)

Ion 66.90 (66.60 to 67.60): VN061153.D (-1972) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

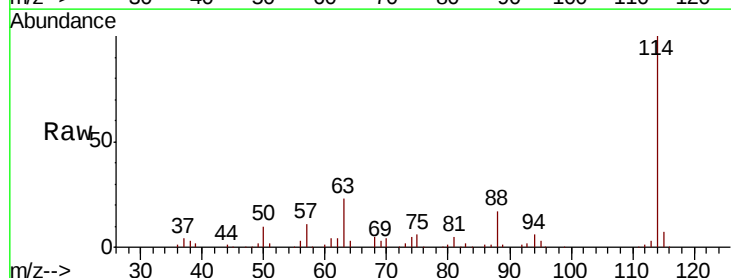
Tgt Ion: 114 Resp: 156953

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.6

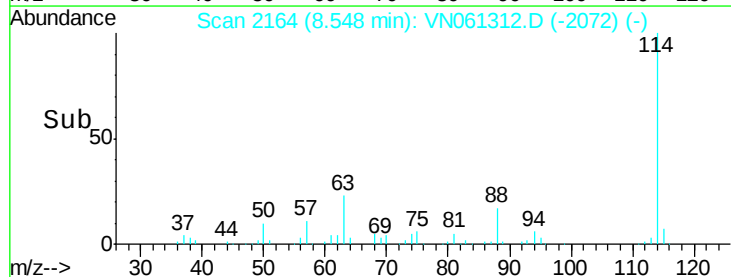
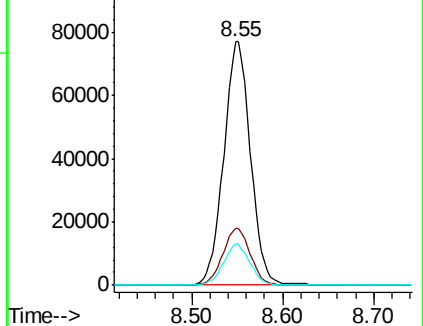
88 17.1 0.0 33.4

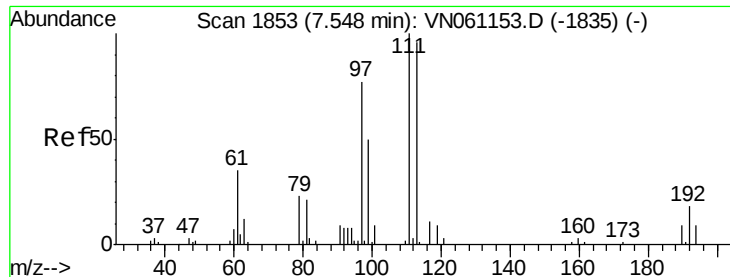


Abundance Ion 113.90 (113.60 to 114.60): VN061153.D (-2148) (-)

Ion 63.00 (62.70 to 63.70): VN061153.D (-2148) (-)

Ion 87.90 (87.60 to 88.60): VN061153.D (-2148) (-)

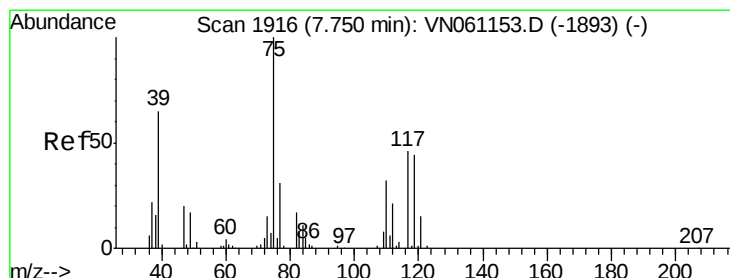
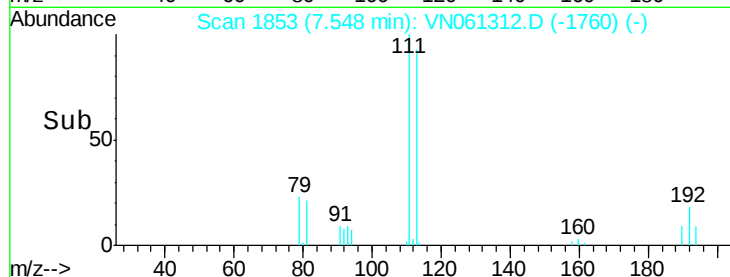
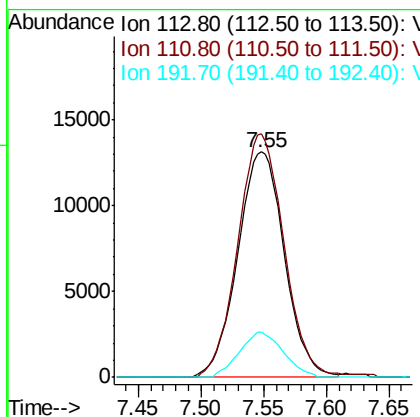
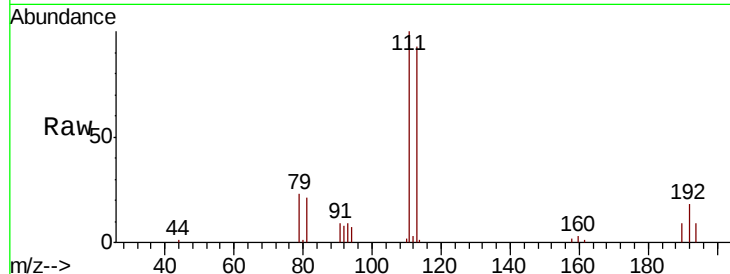




#35
 Dibromofluoromethane
 Concen: 36.688 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

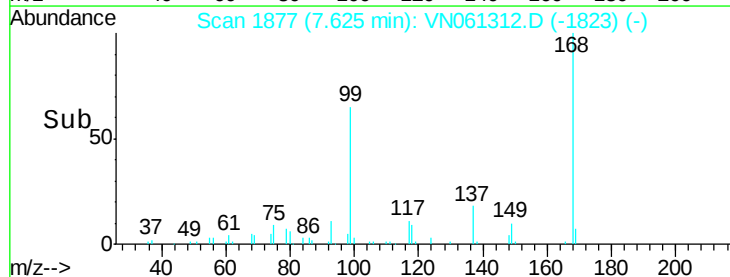
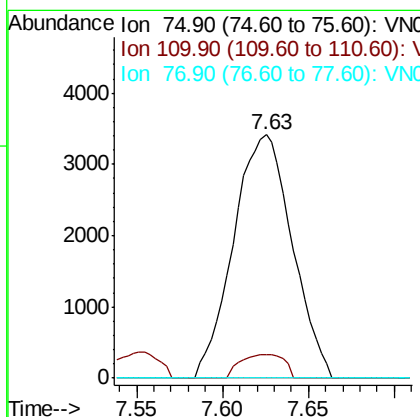
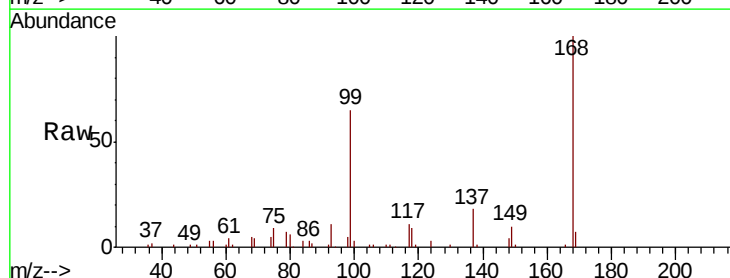
Instrument :
 MSVOA_N
 ClientSampleId :

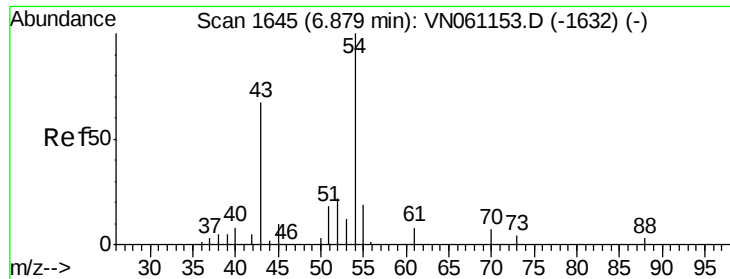
Tot Ion:113 Resp: 34050
 Ion Ratio Lower Upper
 113 100
 111 106.6 82.9 124.3
 192 18.8 14.7 22.1



#36
 1,1-Dichloropropene
 Concen: 5.136 ug/l
 RT: 7.63 min Scan# 1877
 Delta R.T. -0.13 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

Tgt Ion: 75 Resp: 8070
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.0 48.0#
 77 0.0 24.6 37.0#

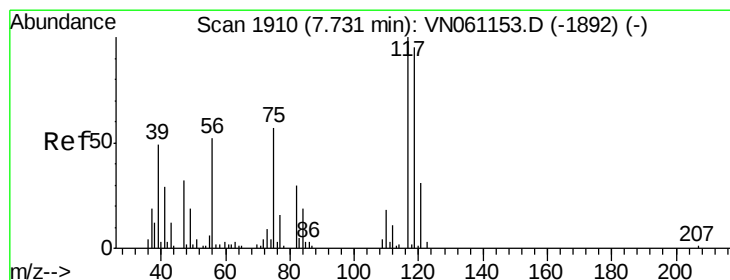
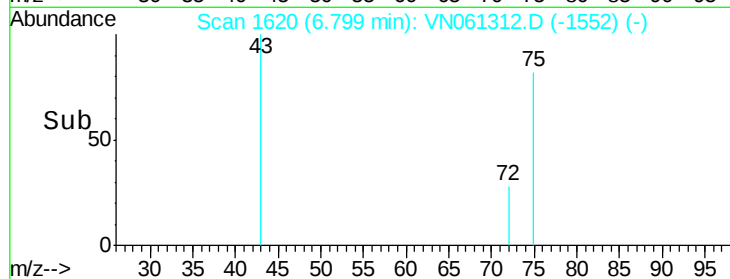
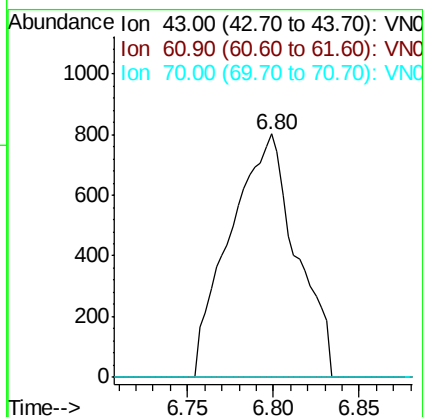
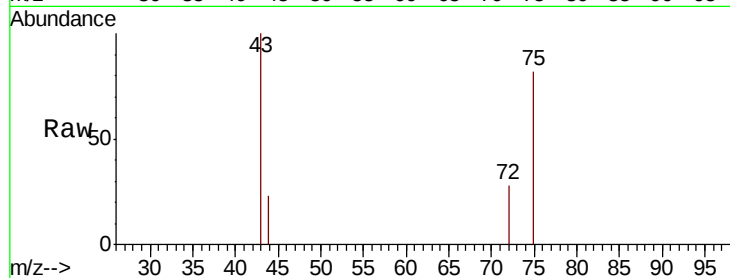




#37
Ethyl Acetate
Concen: 1.165 ug/l
RT: 6.80 min Scan# 1620
Delta R.T. -0.08 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

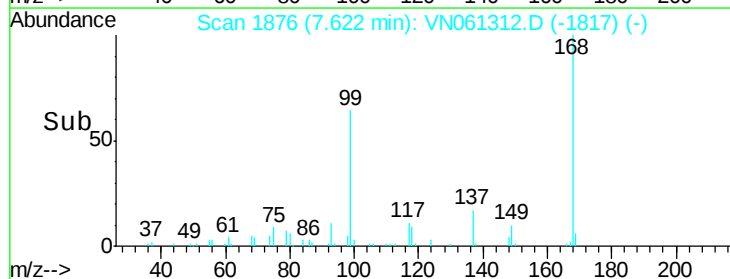
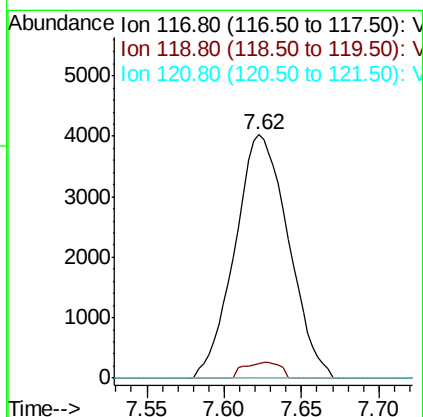
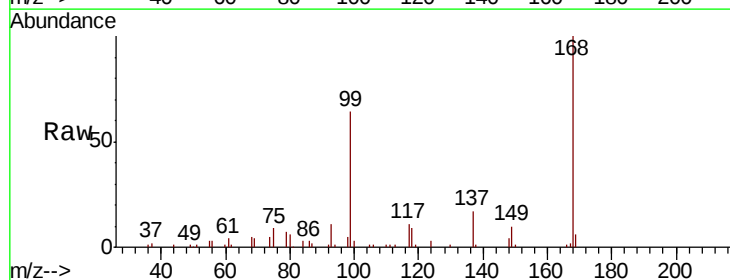
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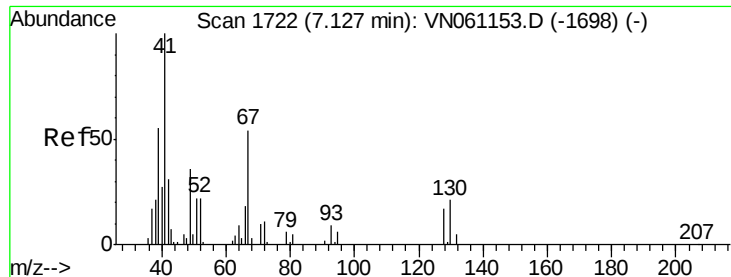
Tot Ion: 43 Resp: 2146
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 8.731 ug/l
RT: 7.62 min Scan# 1876
Delta R.T. -0.11 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

Tgt Ion: 117 Resp: 9681
Ion Ratio Lower Upper
117 100
119 5.8 75.8 113.6#
121 0.0 24.7 37.1#

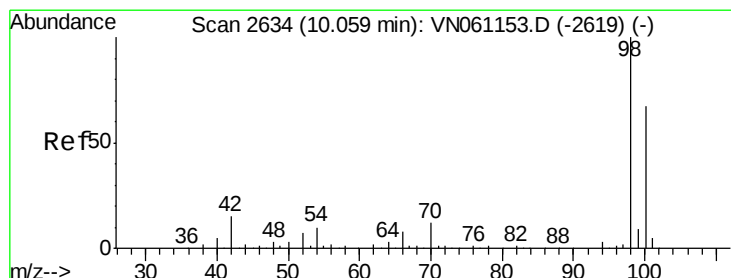
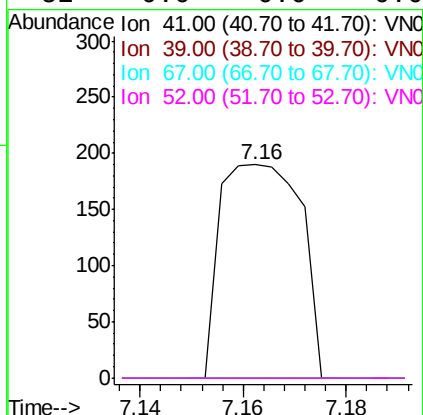
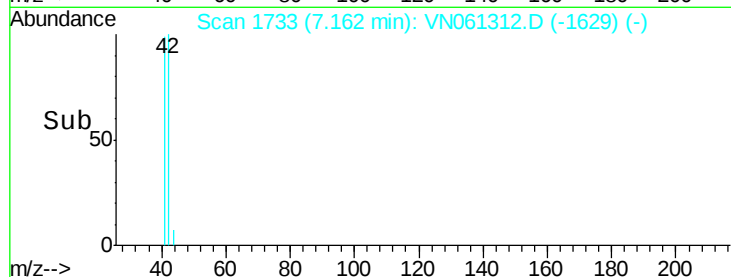
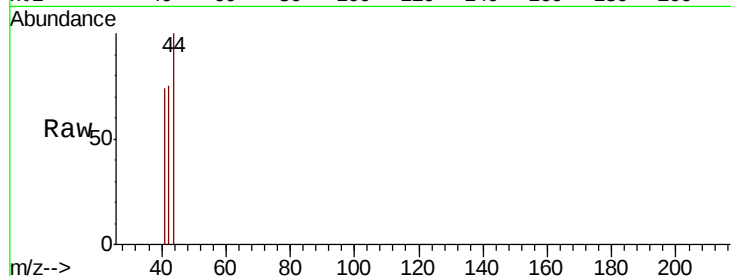




#41
Methacrylonitrile
Concen: 0.268 ug/l
RT: 7.16 min Scan# 1733
Delta R.T. 0.04 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

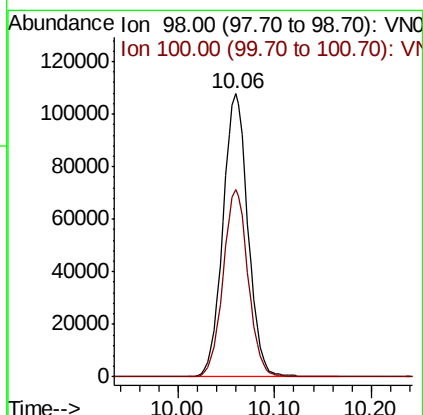
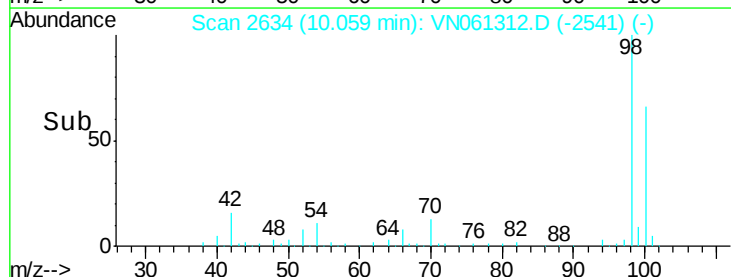
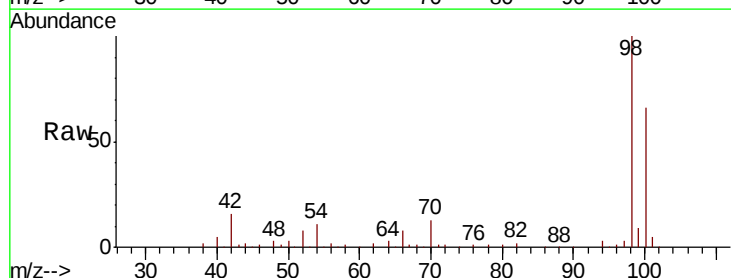
Instrument :
MSVOA_N
ClientSampleId :

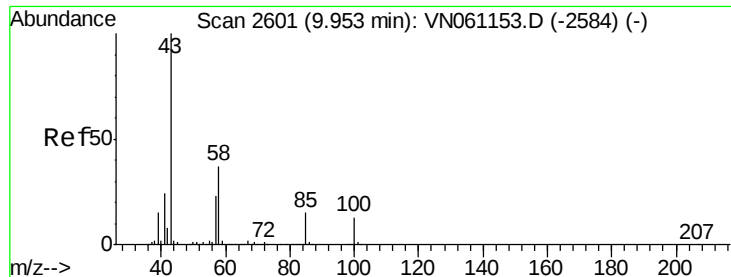
Tot Ion:	41	Resp:	205
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 51.185 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061312.D
Acq: 6 May 2020 16:13

Tgt Ion:	98	Resp:	193656
Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.4	80.0

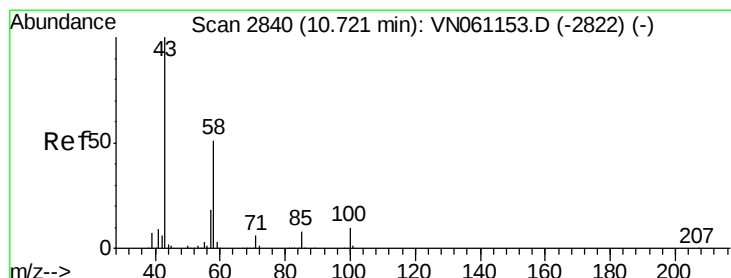
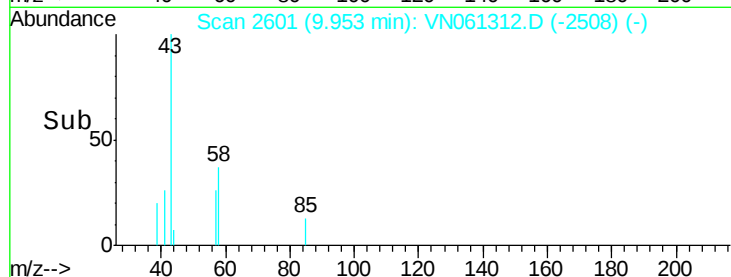
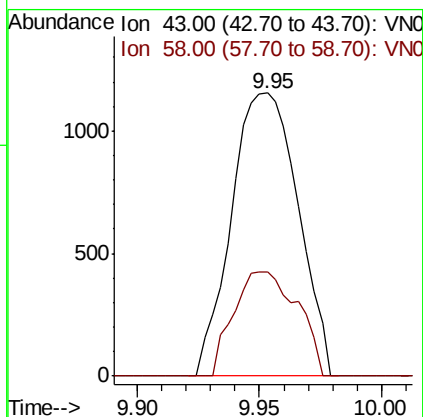
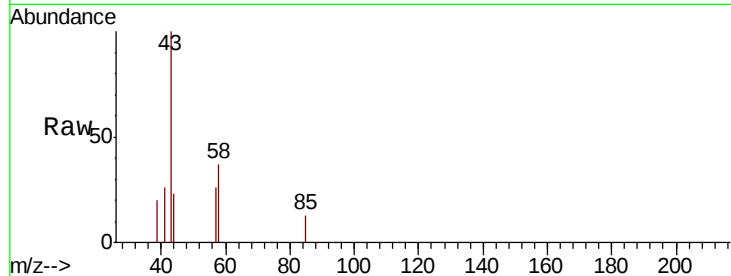




#51
 4-Methyl-2-Pentanone
 Concen: 1.215 ug/l
 RT: 9.95 min Scan# 2601
 Delta R.T. 0.00 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

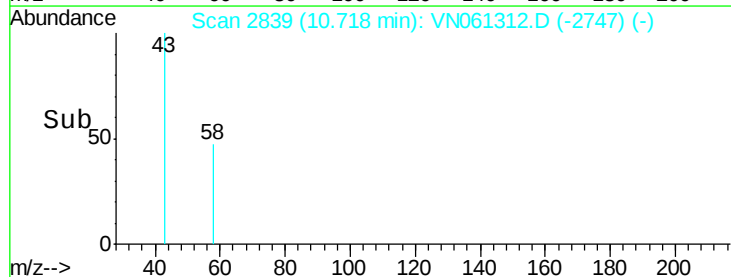
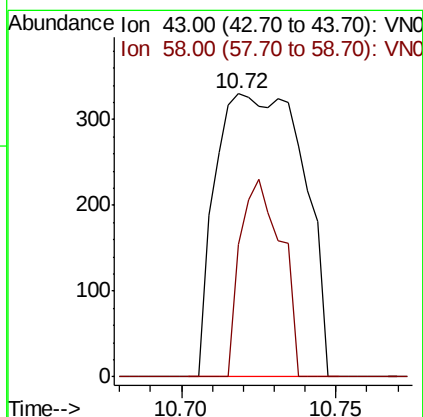
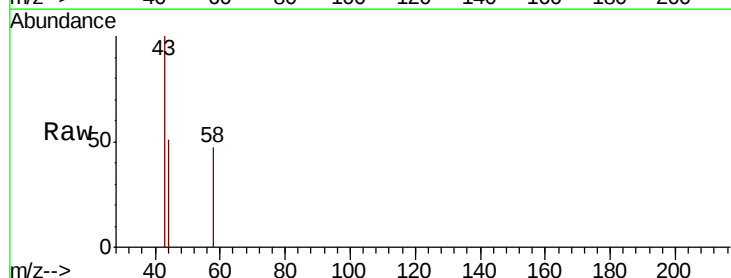
Instrument :
 MSVOA_N
 ClientSampled :

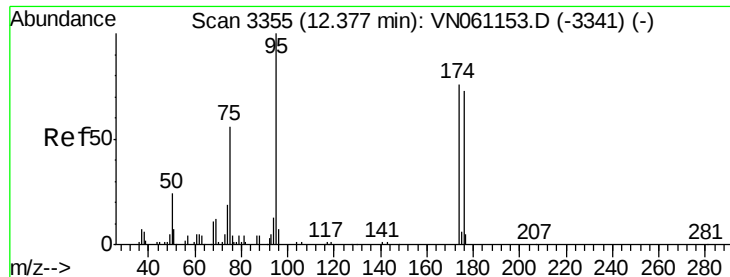
Tot Ion: 43 Resp: 2186
 Ion Ratio Lower Upper
 43 100
 58 35.5 29.1 43.7



#59
 2-Hexanone
 Concen: 0.496 ug/l
 RT: 10.72 min Scan# 2839
 Delta R.T. -0.00 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

Tgt Ion: 43 Resp: 649
 Ion Ratio Lower Upper
 43 100
 58 32.5 25.4 76.4





#62

4-Bromofluorobenzene

Concen: 50.083 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

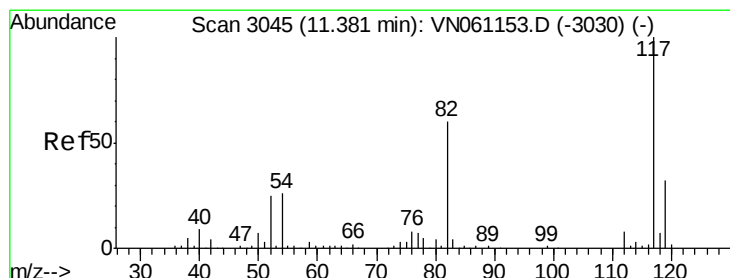
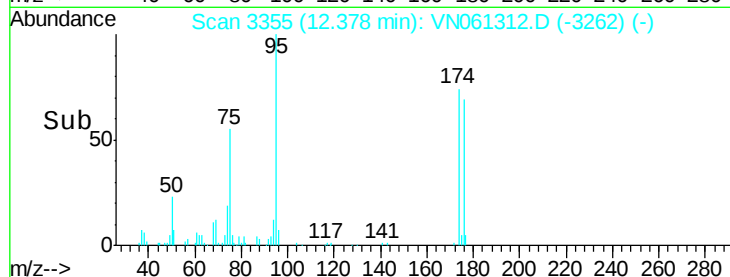
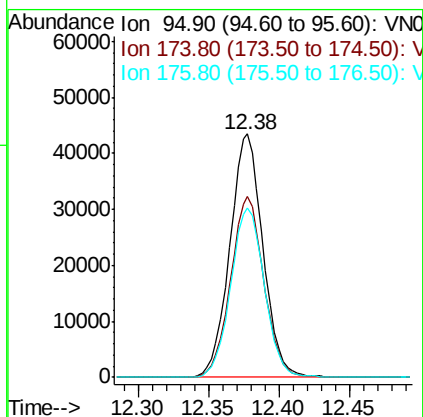
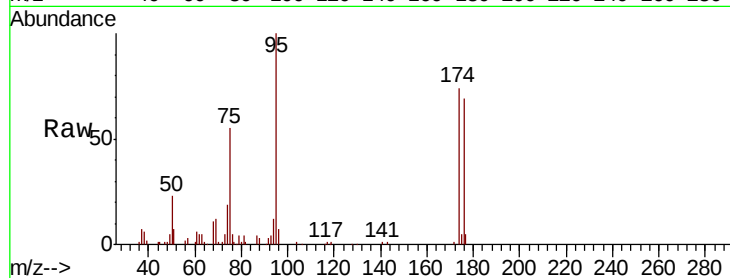
Tot Ion: 95 Resp: 71306

Ion Ratio Lower Upper

95 100

174 74.4 0.0 149.4

176 70.5 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: VN061312.D

Acq: 6 May 2020 16:13

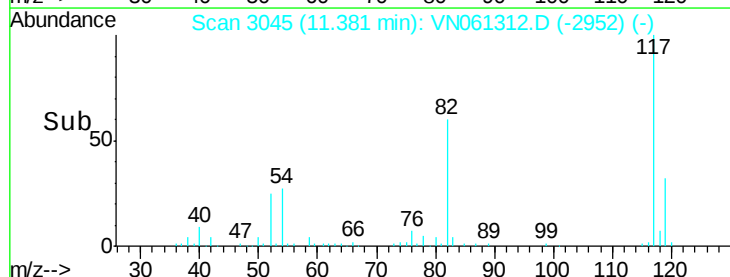
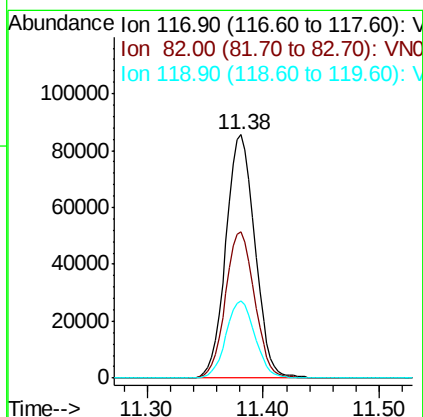
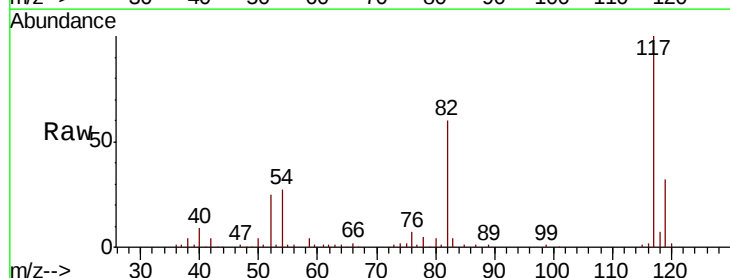
Tgt Ion: 117 Resp: 148738

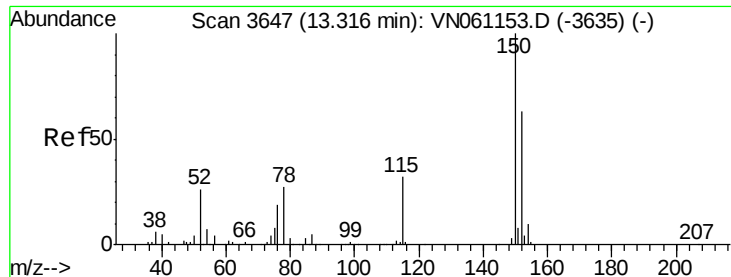
Ion Ratio Lower Upper

117 100

82 59.9 47.8 71.8

119 31.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

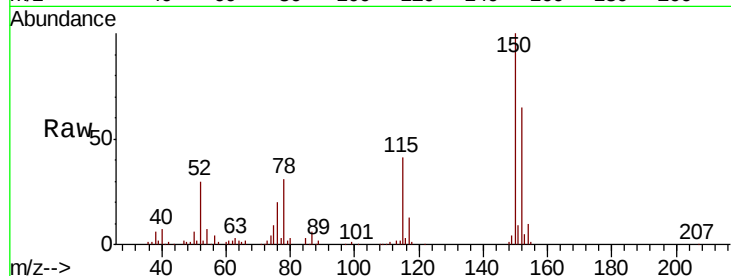
Tot Ion:152 Resp: 64388

Ion Ratio Lower Upper

152 100

115 63.7 31.0 93.0

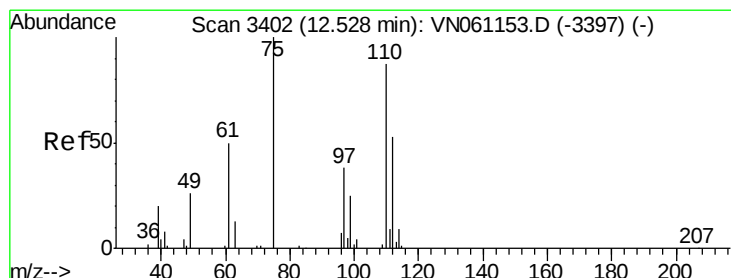
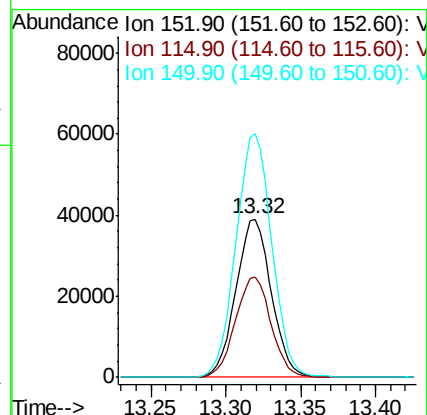
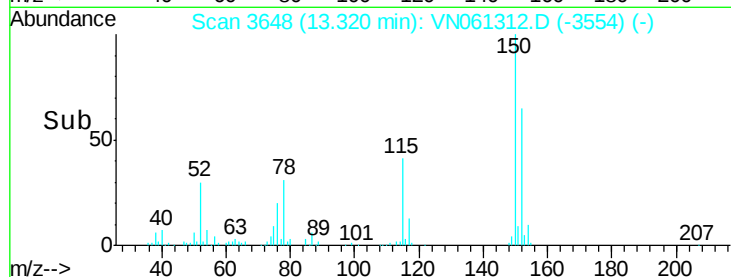
150 156.2 0.0 351.8



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



#76

1,2,3-Trichloropropane

Concen: 29.508 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061312.D

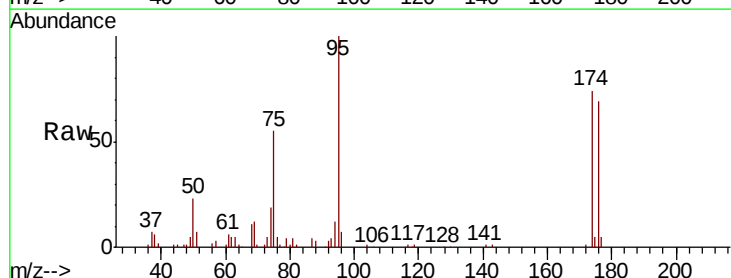
Acq: 6 May 2020 16:13

Tgt Ion: 75 Resp: 40056

Ion Ratio Lower Upper

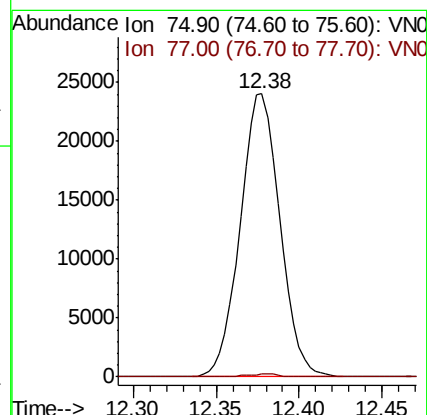
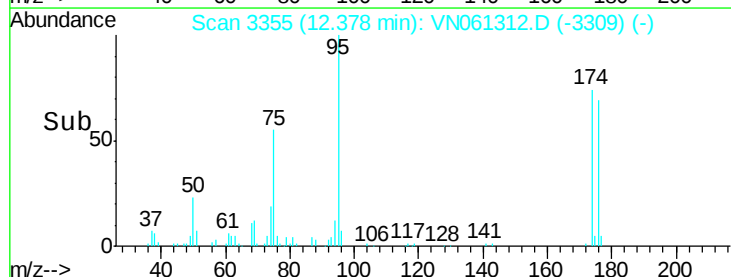
75 100

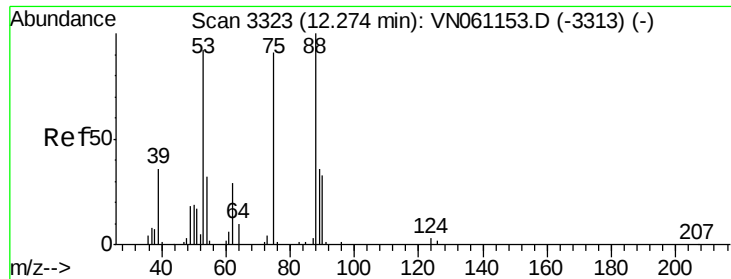
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.934 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

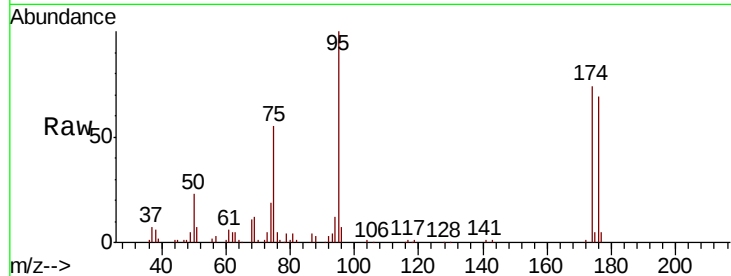
Tot Ion: 75 Resp: 40056

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

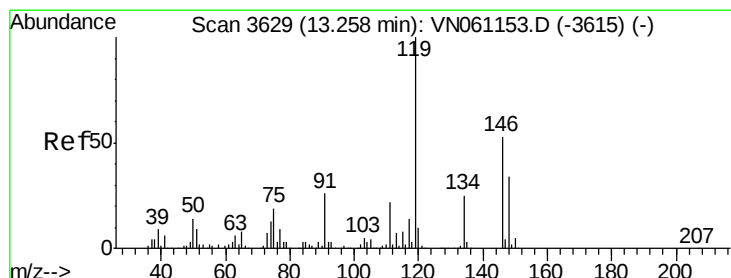
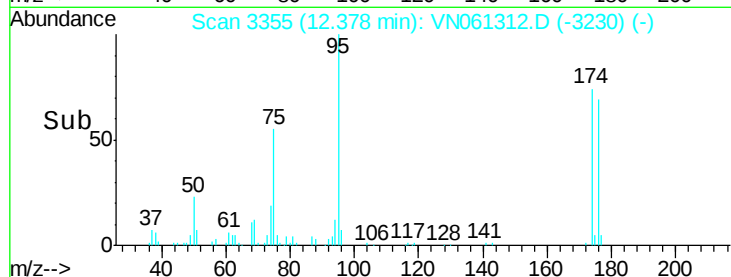
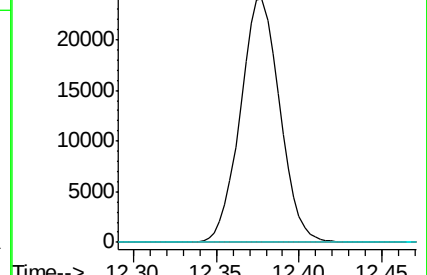
89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN061153.D (-3313) (-)

Ion 53.00 (52.70 to 53.70): VN061153.D (-3313) (-)

Ion 88.90 (88.60 to 89.60): VN061153.D (-3313) (-)



#87

1,3-Dichlorobenzene

Concen: 0.203 ug/l

RT: 13.26 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

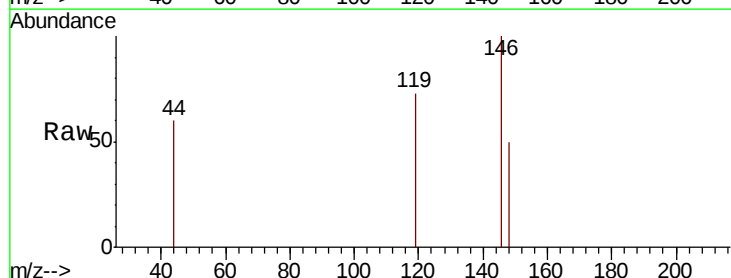
Tgt Ion: 146 Resp: 409

Ion Ratio Lower Upper

146 100

111 15.9 20.7 62.1#

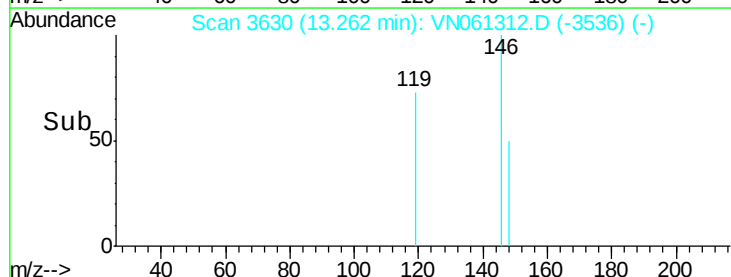
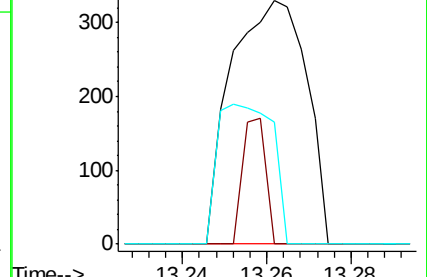
148 42.3 31.8 95.3

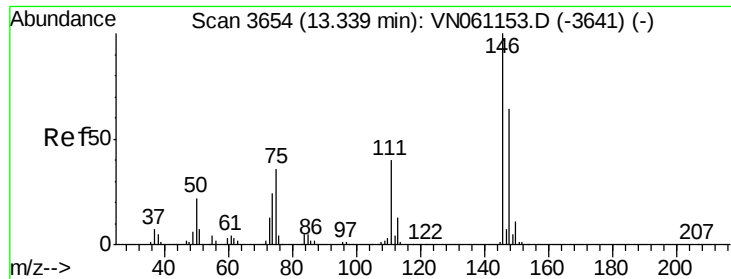


Abundance Ion 145.90 (145.60 to 146.60): VN061153.D (-3615) (-)

Ion 110.90 (110.60 to 111.60): VN061153.D (-3615) (-)

Ion 147.90 (147.60 to 148.60): VN061153.D (-3615) (-)





#88

1,4-Dichlorobenzene

Concen: 0.287 ug/l

RT: 13.34 min Scan# 3653

Delta R.T. -0.00 min

Lab File: VN061312.D

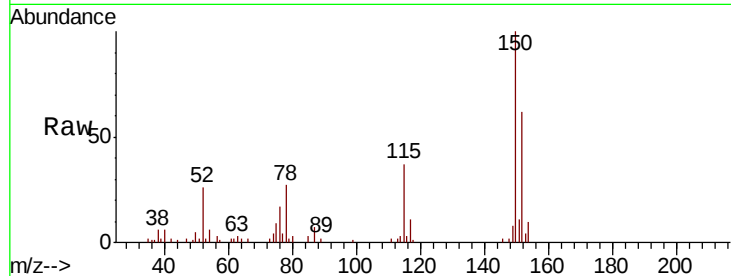
Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

ClientSampled :

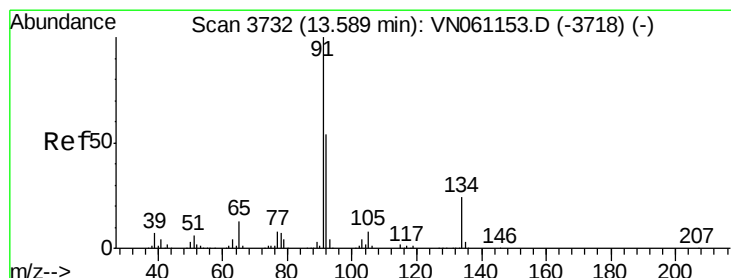
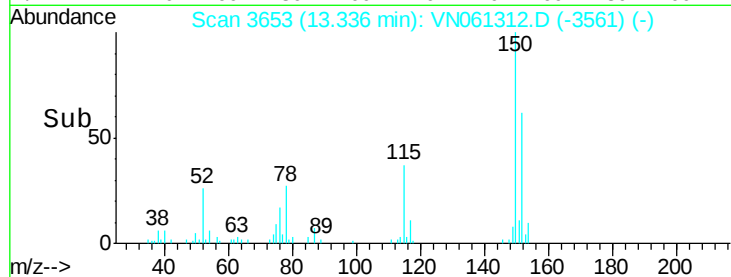
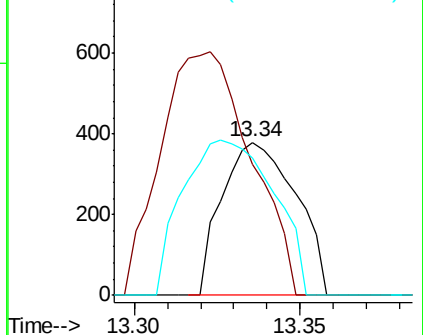
Tot Ion:	146	Resp:	589
Ion	Ratio	Lower	Upper
146	100		
111	192.9	20.4	61.3#
148	124.3	31.9	95.7#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.224 ug/l

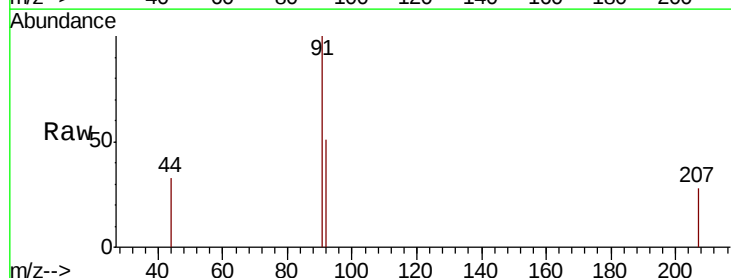
RT: 13.60 min Scan# 3734

Delta R.T. 0.01 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

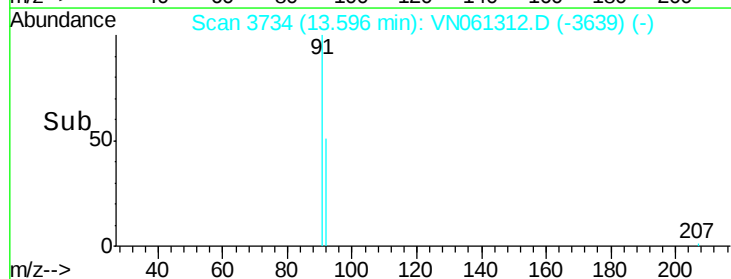
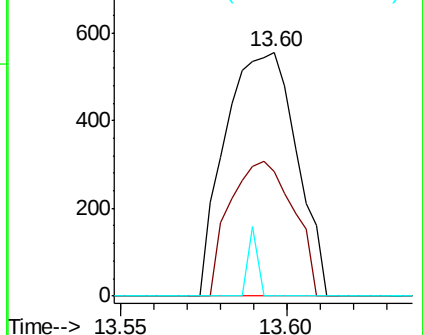
Tgt Ion:	91	Resp:	832
Ion	Ratio	Lower	Upper
91	100		
92	49.0	26.8	80.3
134	3.6	11.9	35.5#

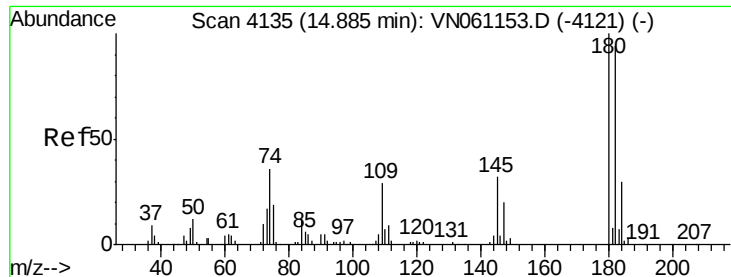


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

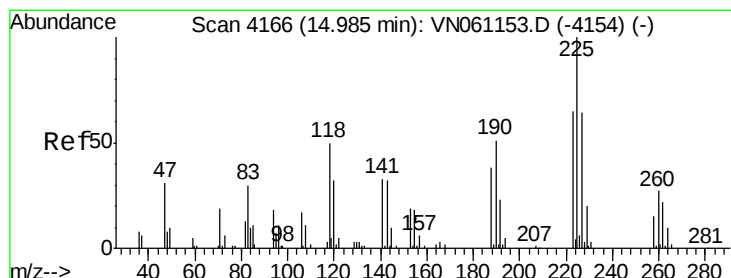
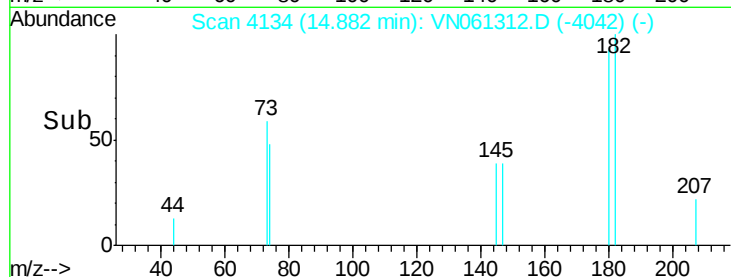
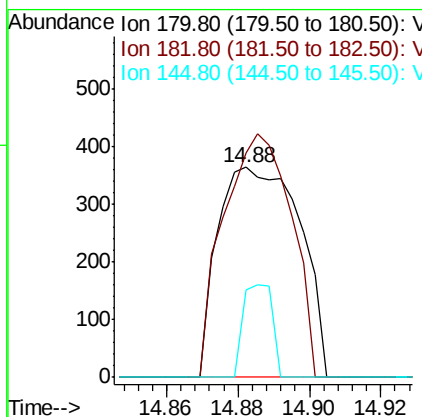
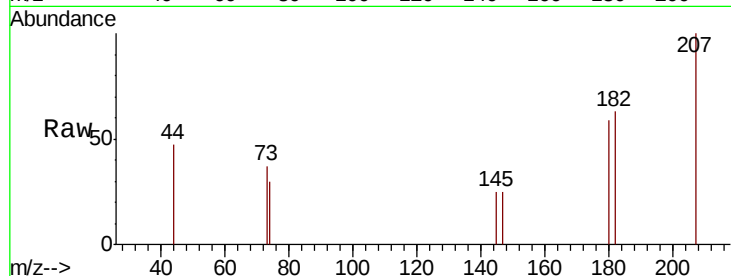




#93
 1,2,4-Trichlorobenzene
 Concen: 0.492 ug/l
 RT: 14.88 min Scan# 4134
 Delta R.T. -0.00 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

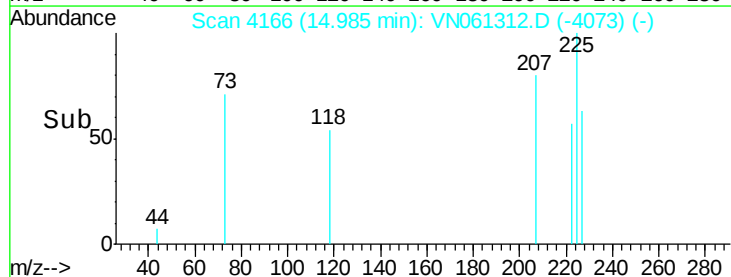
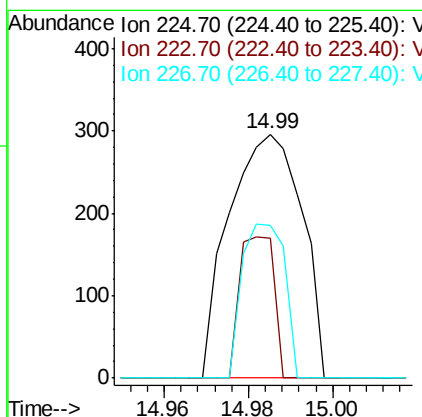
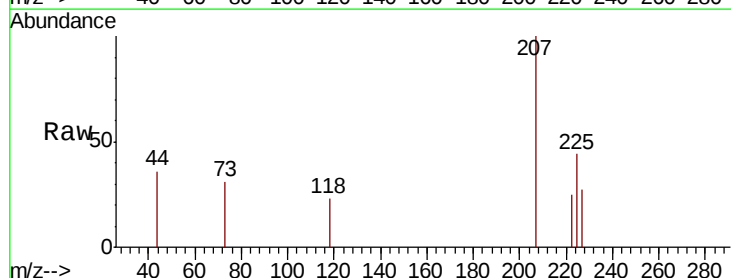
Instrument :
 MSVOA_N
 ClientSampled :

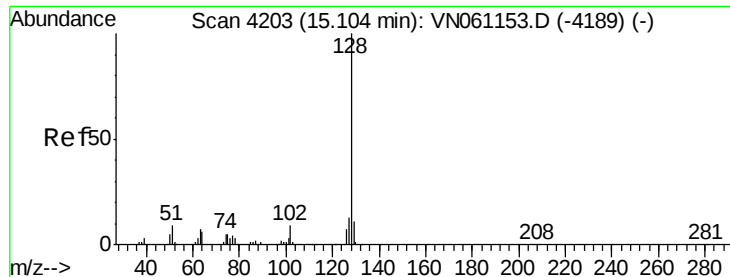
Tot Ion:180 Resp: 578
 Ion Ratio Lower Upper
 180 100
 182 95.5 47.3 141.9
 145 15.7 16.0 47.9#



#94
 Hexachlorobutadiene
 Concen: 0.726 ug/l
 RT: 14.99 min Scan# 4166
 Delta R.T. 0.00 min
 Lab File: VN061312.D
 Acq: 6 May 2020 16:13

Tgt Ion:225 Resp: 356
 Ion Ratio Lower Upper
 225 100
 223 27.5 32.4 97.0#
 227 37.1 32.4 97.0





#95

Naphthalene

Concen: 0.688 ug/l

RT: 15.11 min Scan# 4205

Delta R.T. 0.01 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

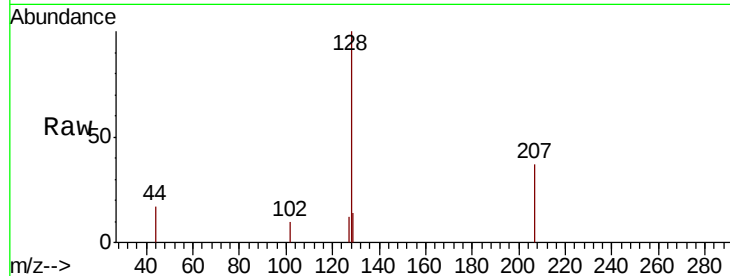
Tot Ion:128 Resp: 2630

Ion Ratio Lower Upper

128 100

127 6.5 10.4 15.6#

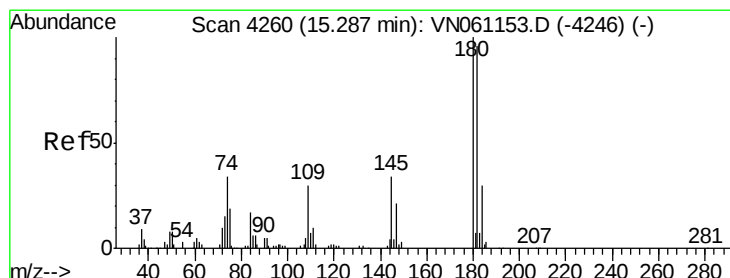
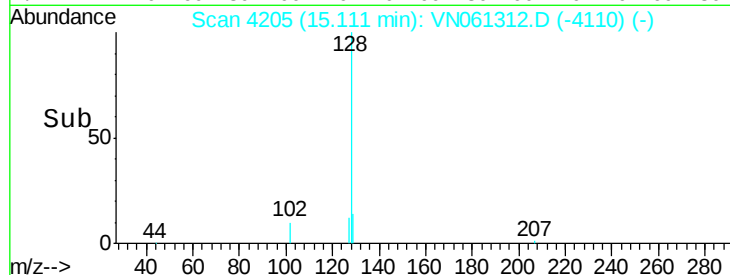
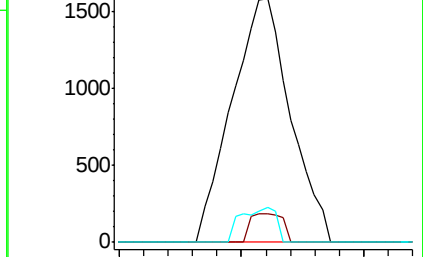
129 8.6 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.576 ug/l

RT: 15.29 min Scan# 4260

Delta R.T. 0.00 min

Lab File: VN061312.D

Acq: 6 May 2020 16:13

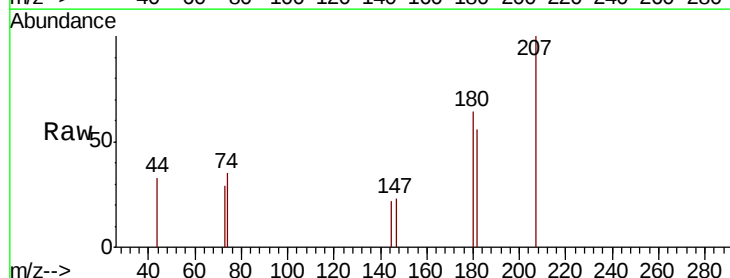
Tgt Ion:180 Resp: 668

Ion Ratio Lower Upper

180 100

182 90.7 47.5 142.5

145 15.4 16.9 50.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

