

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056161.D
 Acq On : 10 Jun 2019 11:37
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:18:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	310116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	473426	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142740	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	155135	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
35) Dibromofluoromethane	7.59	113	141534	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	10.09	98	572852	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	12.40	95	180551	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	

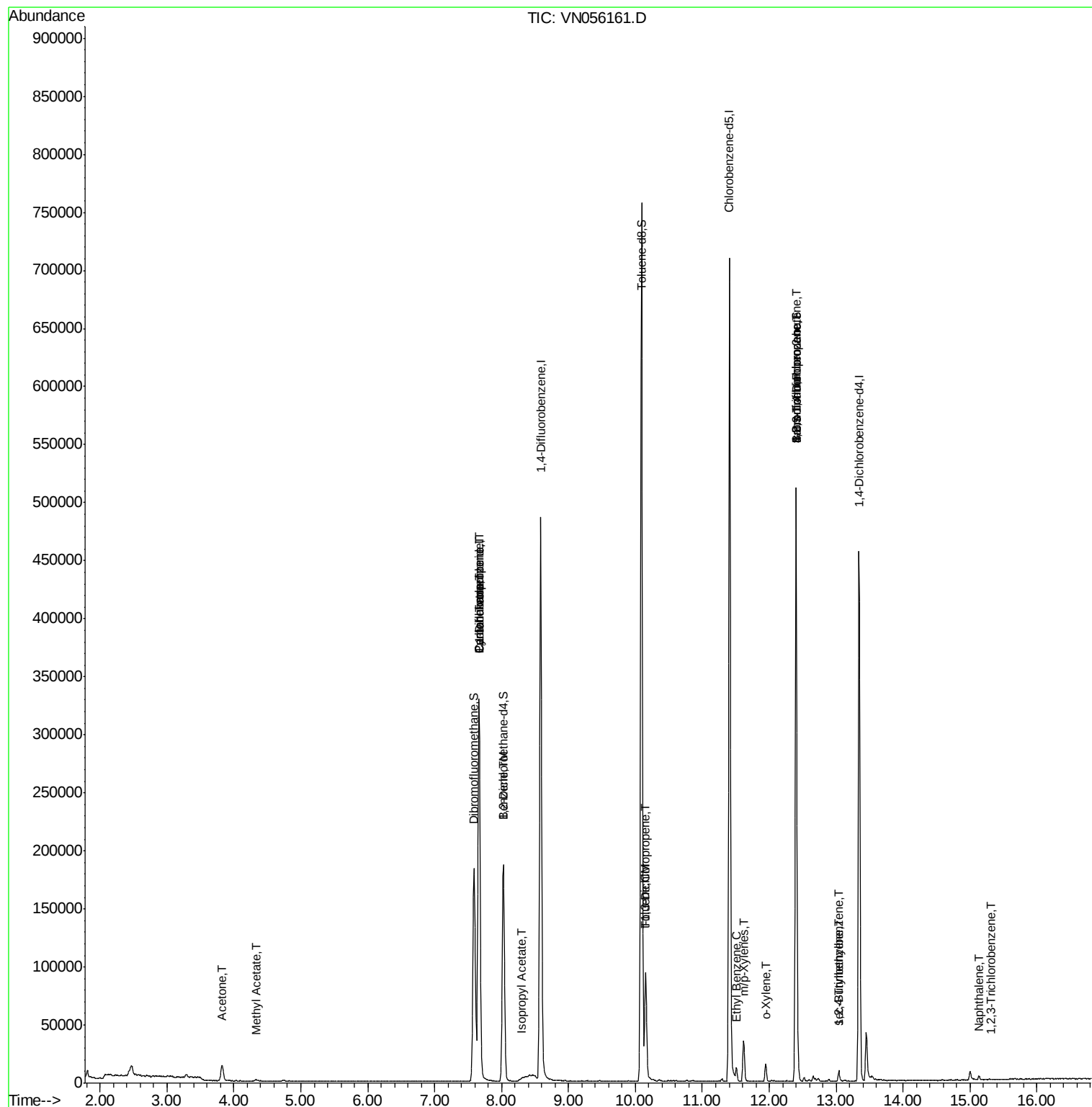
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	23921	16.243	ug/l	96
18) Methyl Acetate	4.34	43	2803	0.395	ug/l #	73
31) Cyclohexane	7.66	56	4647	0.951	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18161	4.461	ug/l #	49
38) Carbon Tetrachloride	7.66	117	25597	6.820	ug/l #	14
40) Benzene	8.04	78	6381	0.516	ug/l	96
43) Isopropyl Acetate	8.29	43	1867	0.318	ug/l #	53
52) Toluene	10.16	92	42474	5.521	ug/l	98
53) t-1,3-Dichloropropene	10.16	75	341	2.472	ug/l #	61
67) Ethyl Benzene	11.51	91	9290	0.590	ug/l	92
68) m/p-Xylenes	11.62	106	12361	2.057	ug/l	100
69) o-Xylene	11.94	106	4689	0.793	ug/l	99
71) Bromoform	12.40	173	1422	3.255	ug/l #	1
73) Isopropylbenzene	12.25	105	548	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	83417	31.760	ug/l #	100
79) 2-Chlorotoluene	12.68	91	169	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	83417	105.767	ug/l #	15
83) tert-Butylbenzene	13.04	119	562	Below Cal	#	72
84) 1,2,4-Trimethylbenzene	13.04	105	6511	0.715	ug/l	97
85) sec-Butylbenzene	13.04	105	6511	0.609	ug/l #	55
95) Naphthalene	15.13	128	3800	4.365	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.32	180	148	3.083	ug/l #	12

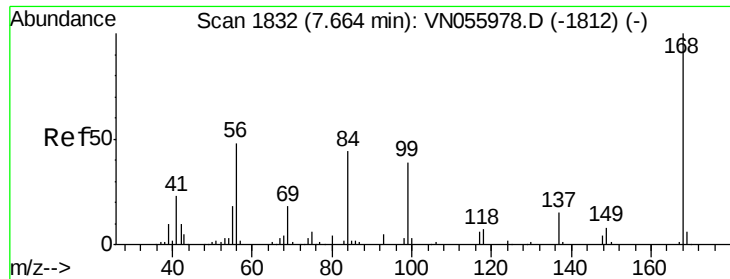
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

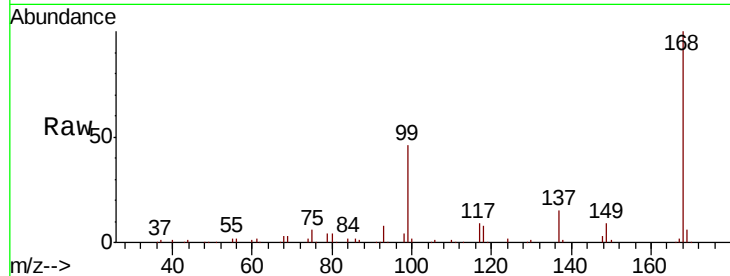
ClientSampled :

Tot Ion:168 Resp: 310116

Ion Ratio Lower Upper

168 100

99 45.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

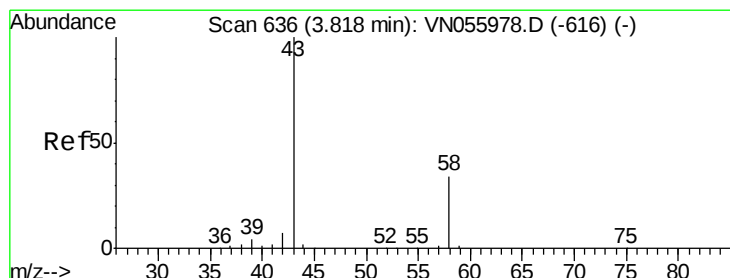
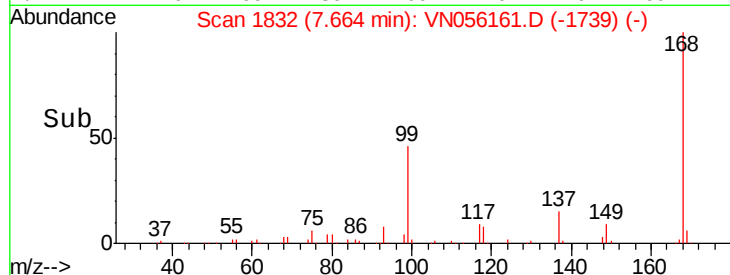
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 16.243 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056161.D

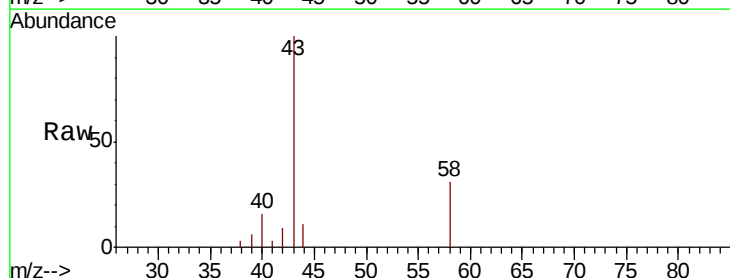
Acq: 10 Jun 2019 11:37

Tgt Ion: 43 Resp: 23921

Ion Ratio Lower Upper

43 100

58 31.0 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

3.82

10000

8000

6000

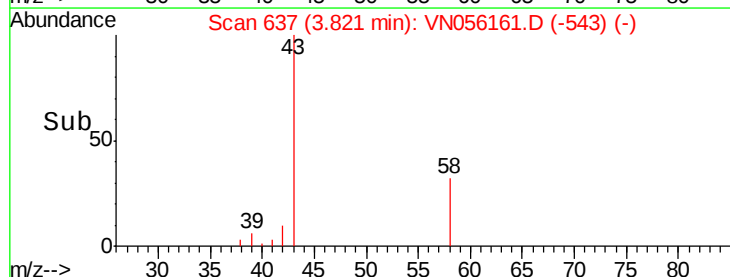
4000

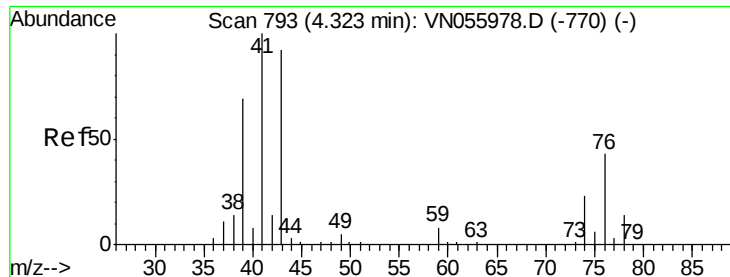
2000

0

3.75 3.80 3.85 3.90

Time-->

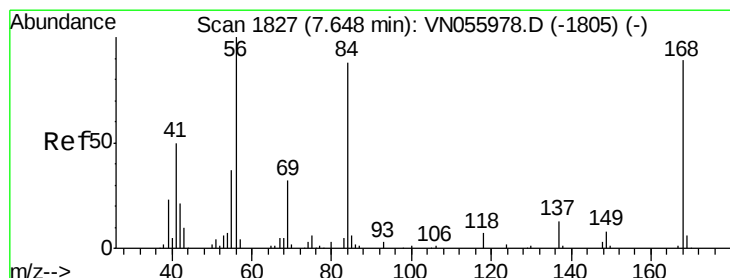
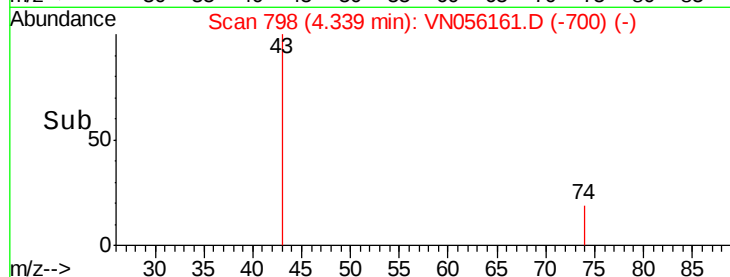
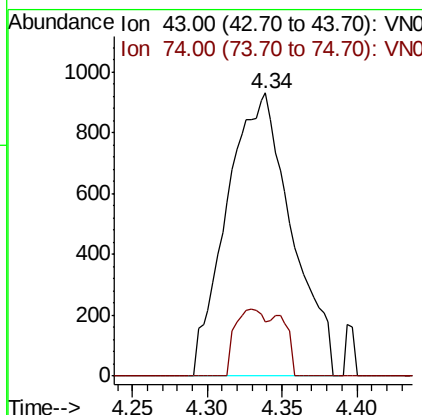
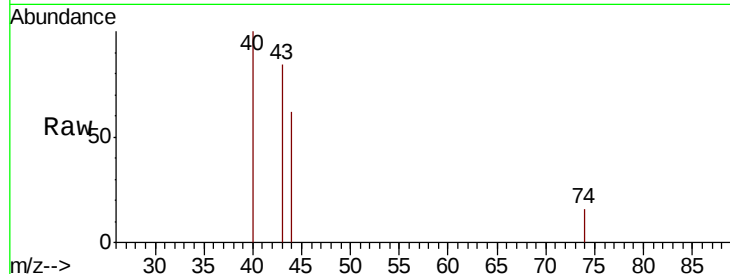




#18
Methyl Acetate
Concen: 0.395 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

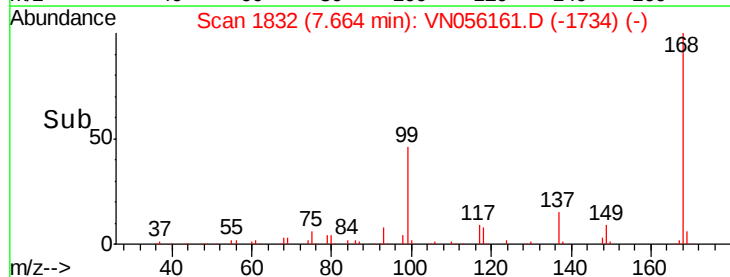
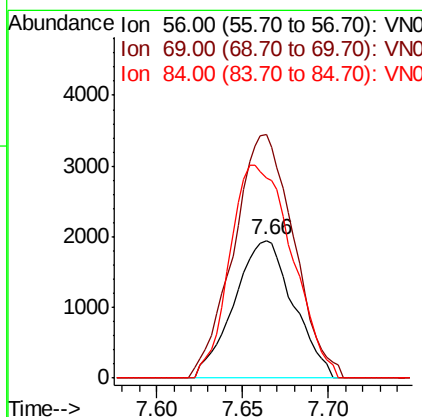
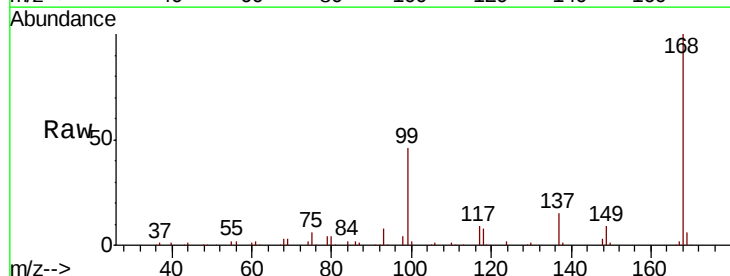
Instrument :
MSVOA_N
ClientSampled :

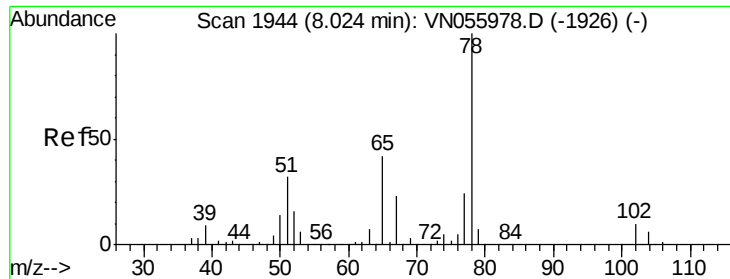
Tot Ion: 43 Resp: 2803
Ion Ratio Lower Upper
43 100
74 10.7 19.3 28.9#



#31
Cyclohexane
Concen: 0.951 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion: 56 Resp: 4647
Ion Ratio Lower Upper
56 100
69 176.6 25.6 38.4#
84 145.4 67.4 101.0#

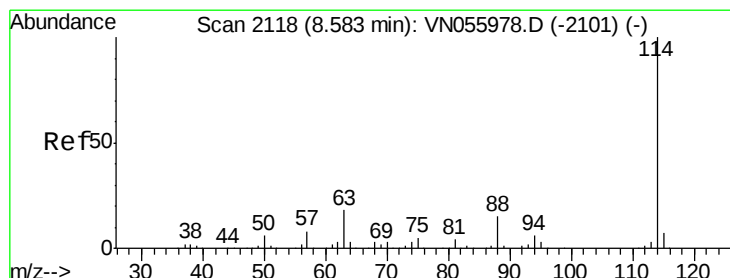
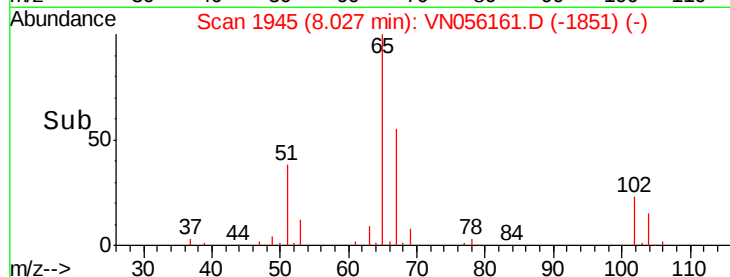
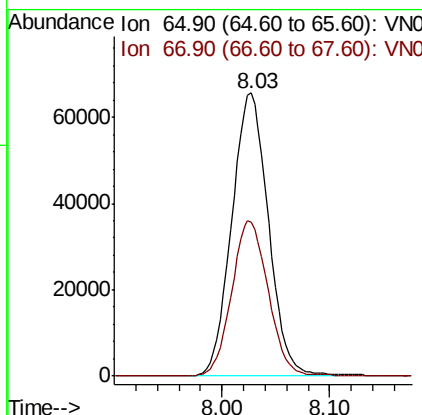
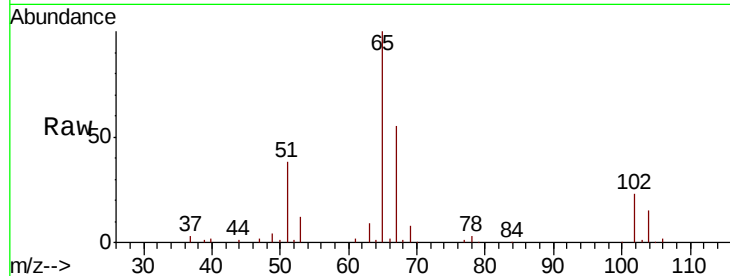




#33
 1,2-Dichloroethane-d4
 Concen: 50.382 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056161.D
 Acq: 10 Jun 2019 11:37

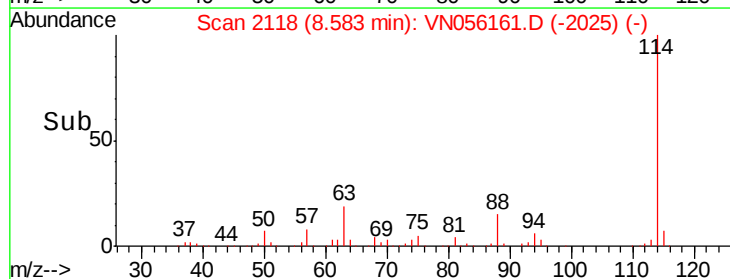
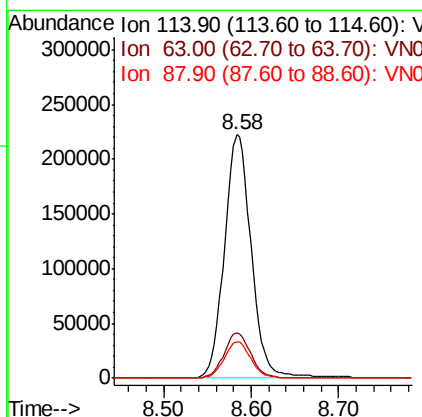
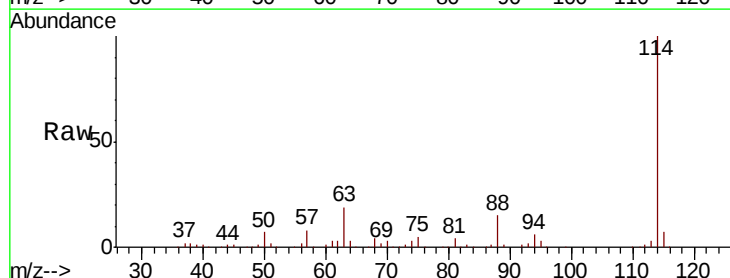
Instrument :
 MSVOA_N
 ClientSampleId :

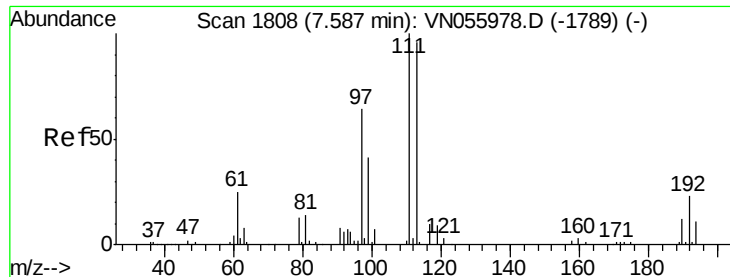
Tot Ion: 65 Resp: 155135
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056161.D
 Acq: 10 Jun 2019 11:37

Tgt Ion: 114 Resp: 473426
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 15.0 0.0 31.0

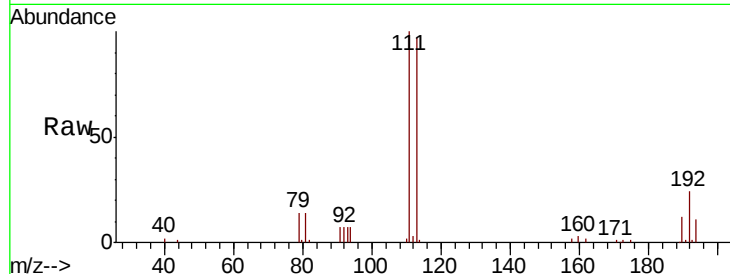




#35
 Dibromofluoromethane
 Concen: 48.727 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056161.D
 Acq: 10 Jun 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	24.2	19.5	29.3

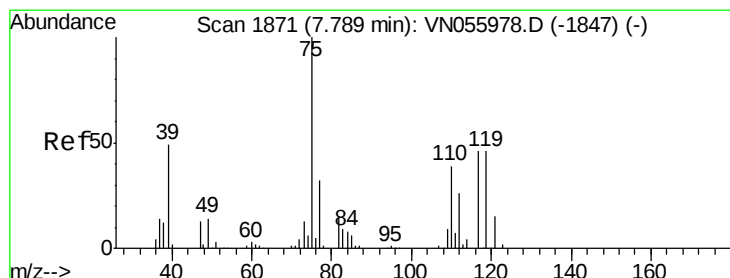
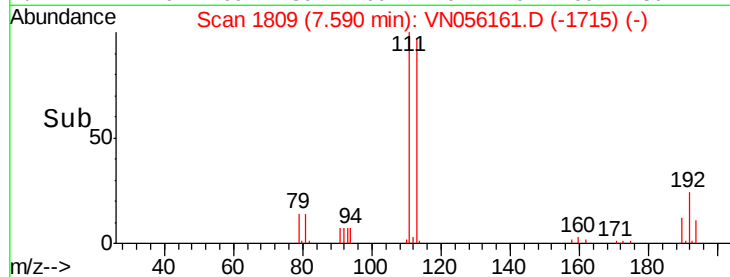
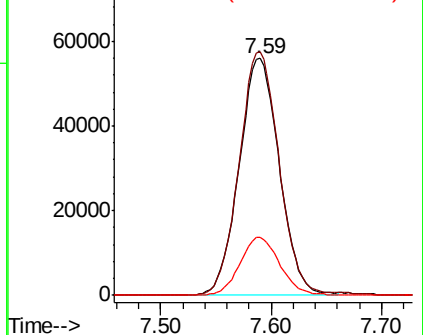


Abundance

Ion 112.80 (112.50 to 113.50): V

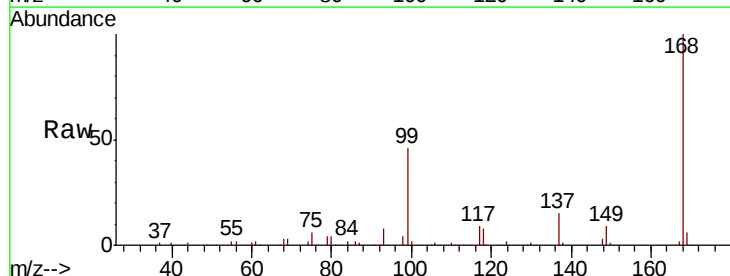
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.461 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056161.D
 Acq: 10 Jun 2019 11:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.0	57.0#
77	0.0	25.1	37.7#

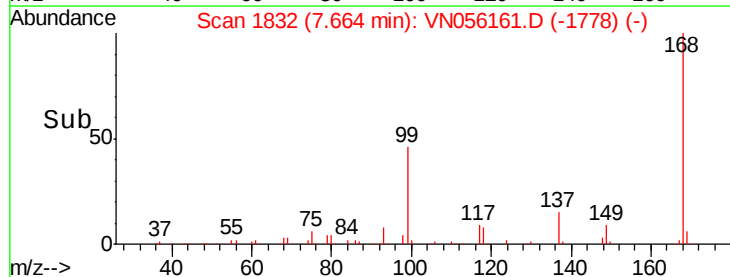
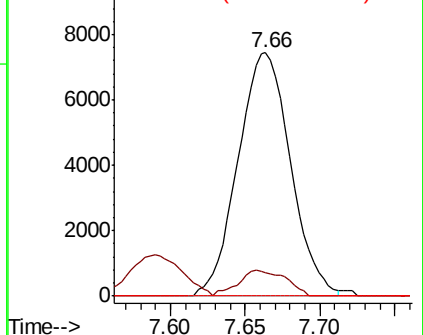


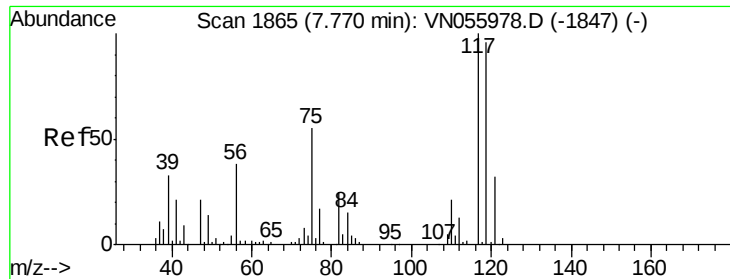
Abundance

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

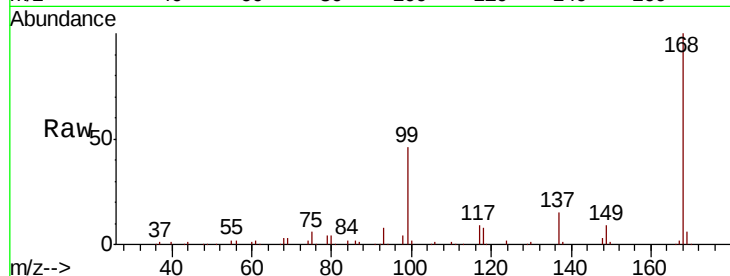




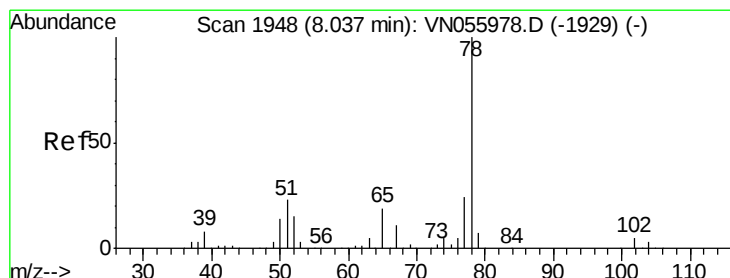
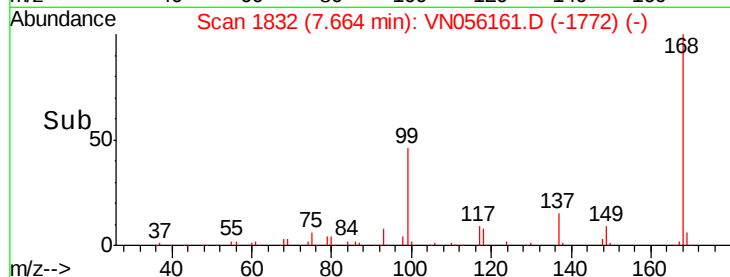
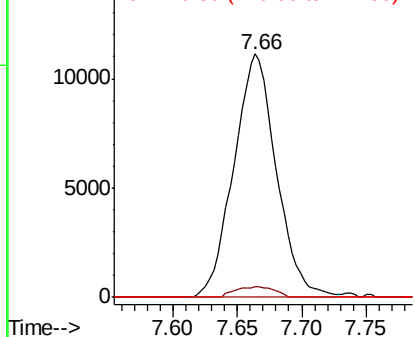
#38
Carbon Tetrachloride
Concen: 6.820 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 25597
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 24.7 37.1#

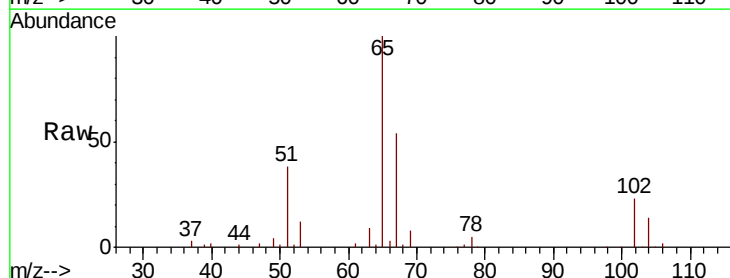


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

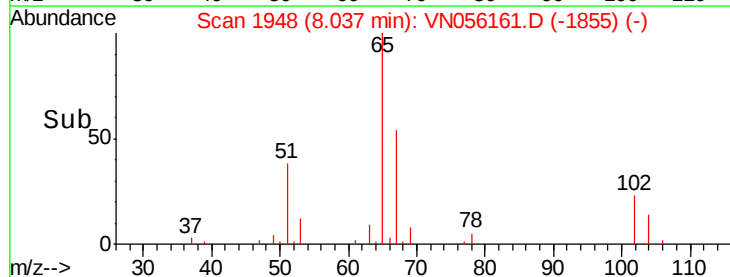
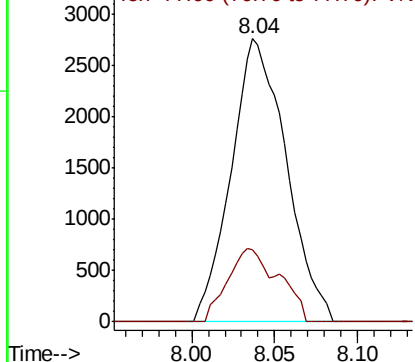


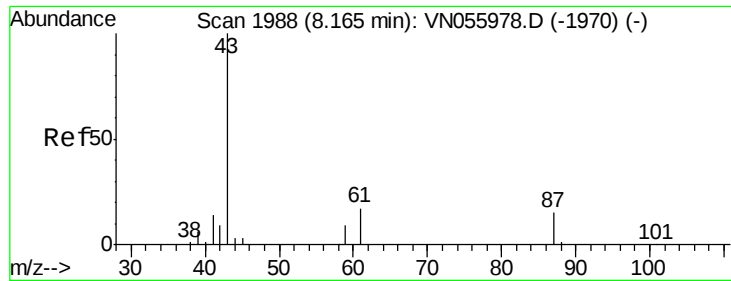
#40
Benzene
Concen: 0.516 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion: 78 Resp: 6381
Ion Ratio Lower Upper
78 100
77 25.7 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 0.318 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :

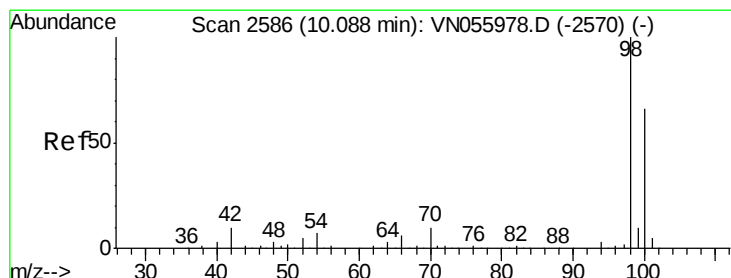
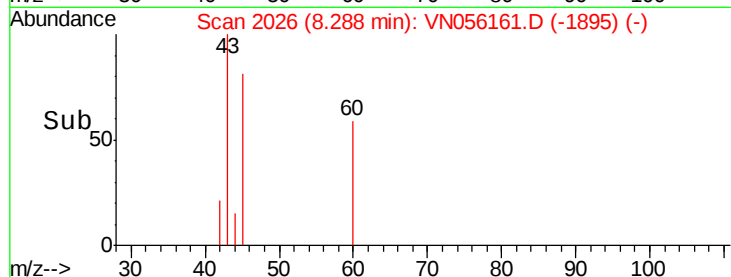
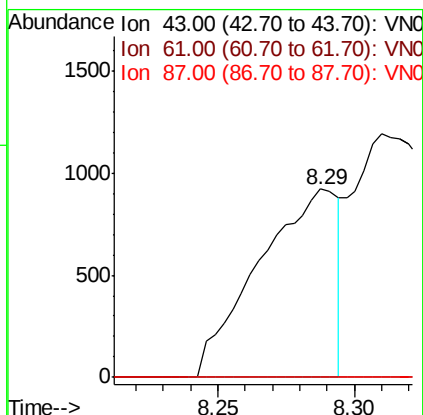
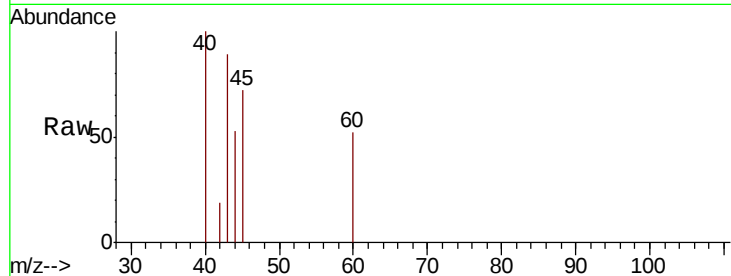
Tot Ion: 43 Resp: 1867

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 51.253 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056161.D

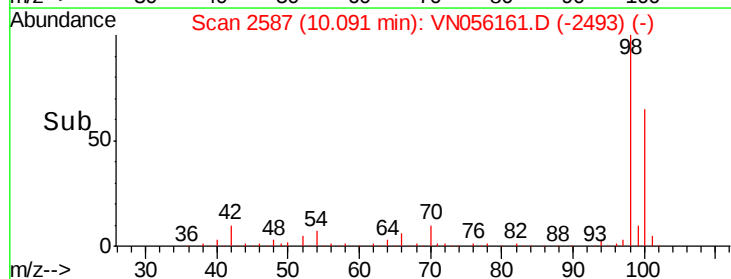
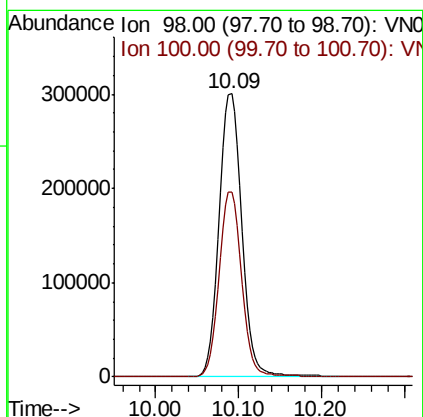
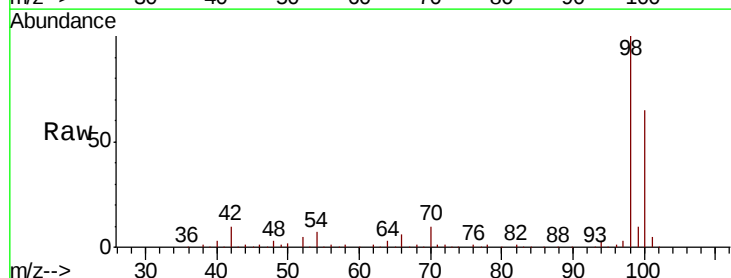
Acq: 10 Jun 2019 11:37

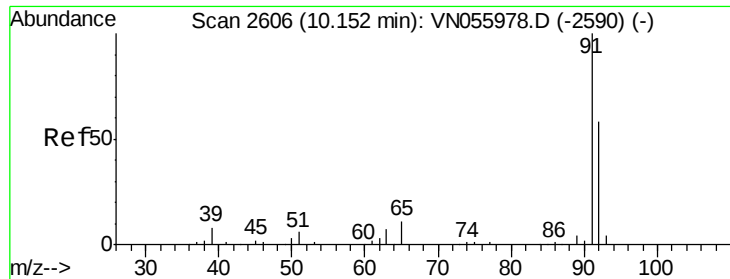
Tgt Ion: 98 Resp: 572852

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9





#52

Toluene

Concen: 5.521 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

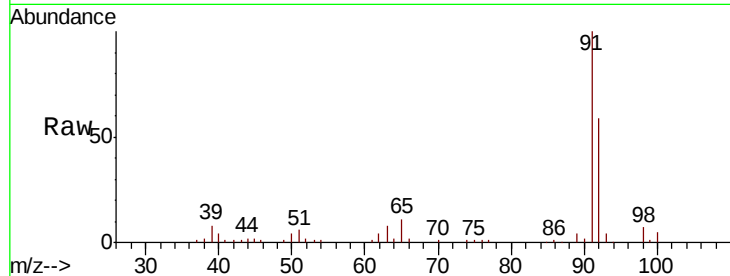
ClientSampleId :

Tot Ion: 92 Resp: 42474

Ion Ratio Lower Upper

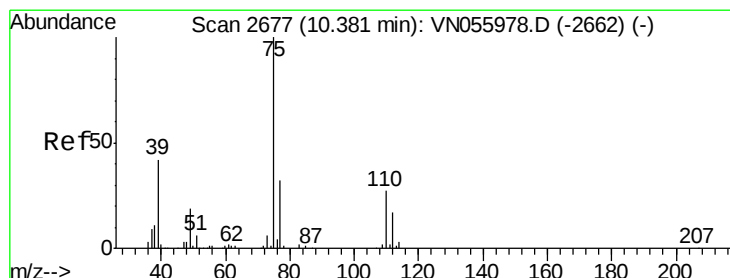
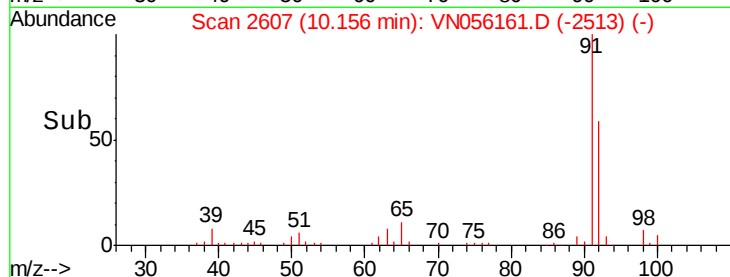
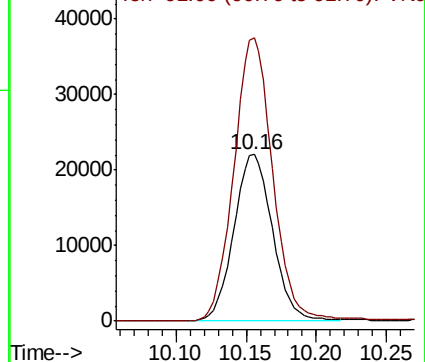
92 100

91 171.8 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.472 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.22 min

Lab File: VN056161.D

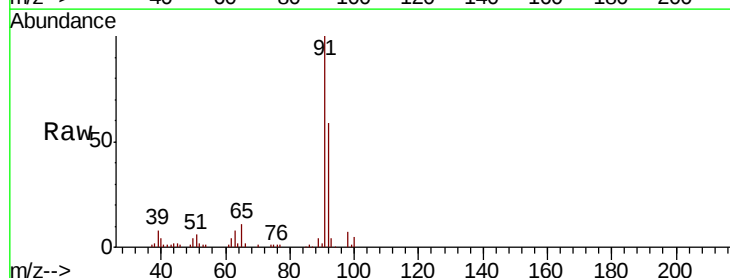
Acq: 10 Jun 2019 11:37

Tgt Ion: 75 Resp: 341

Ion Ratio Lower Upper

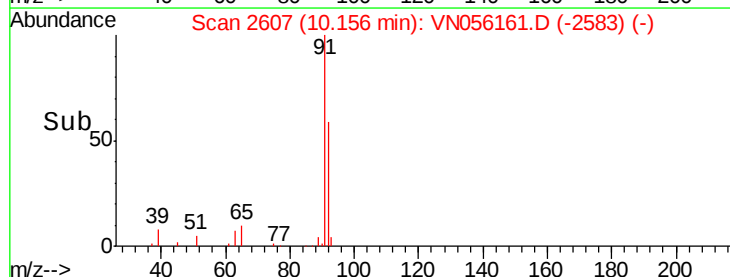
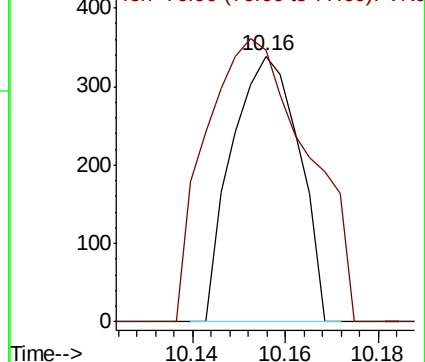
75 100

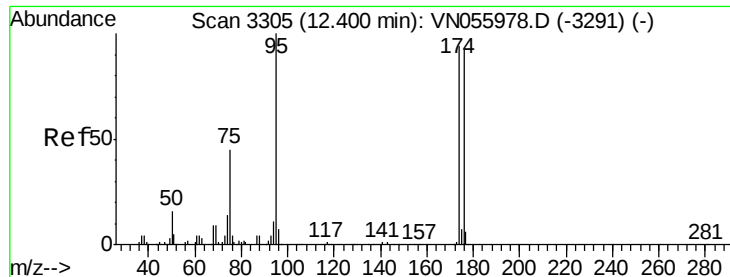
77 54.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#62

4-Bromofluorobenzene

Concen: 47.501 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

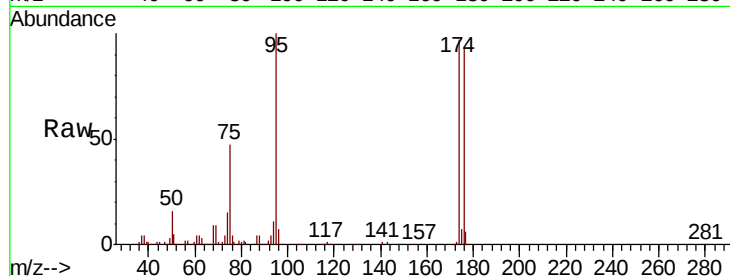
Tot Ion: 95 Resp: 180551

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

176 93.6 0.0 185.2



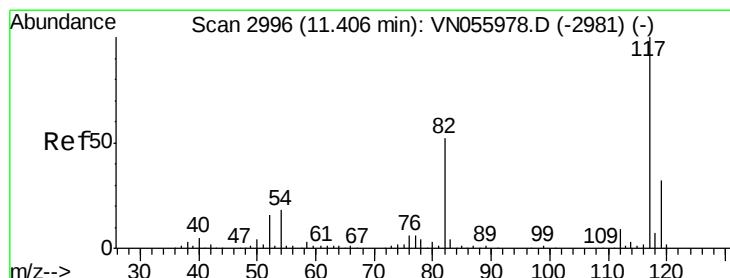
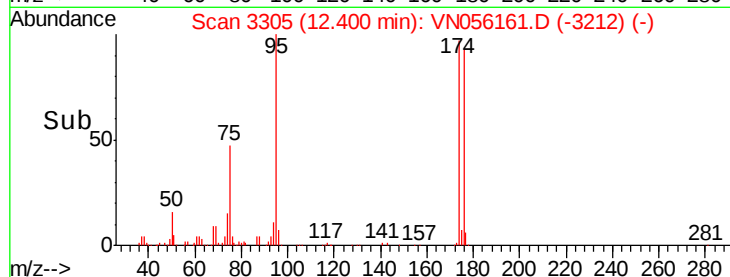
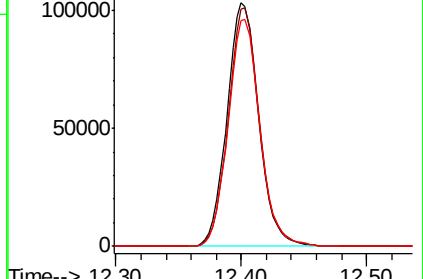
Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

100000

50000



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

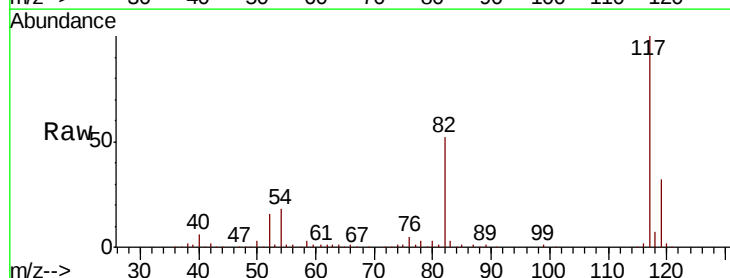
Tgt Ion: 117 Resp: 454639

Ion Ratio Lower Upper

117 100

82 52.0 41.8 62.8

119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

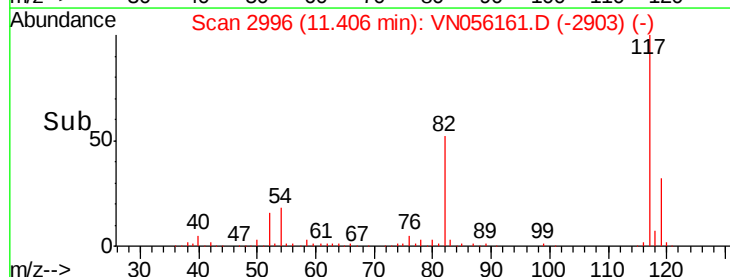
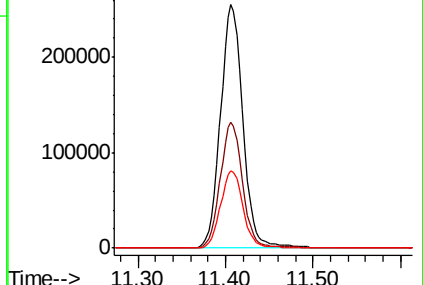
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

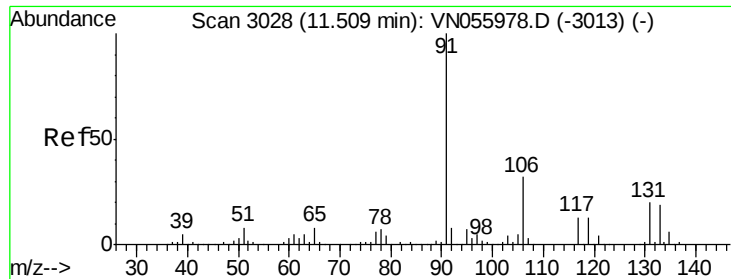
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

300000

200000

100000

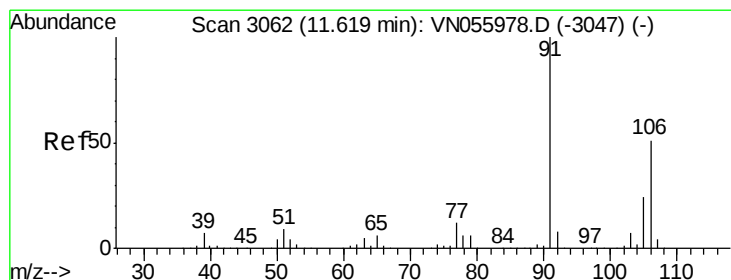
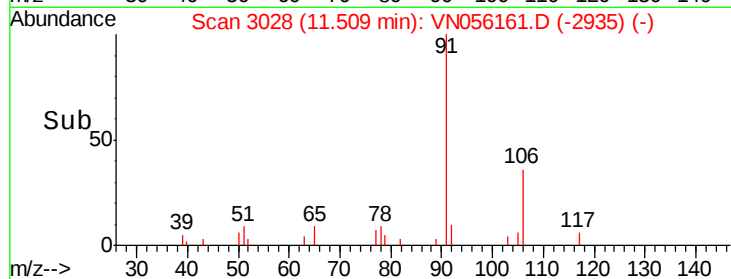
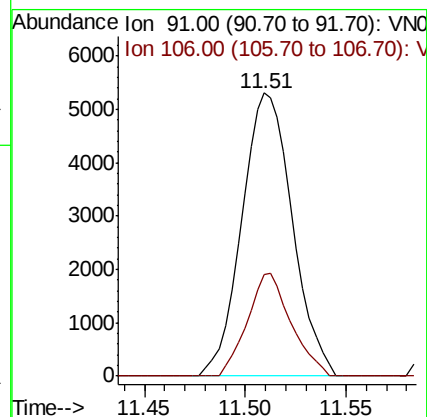
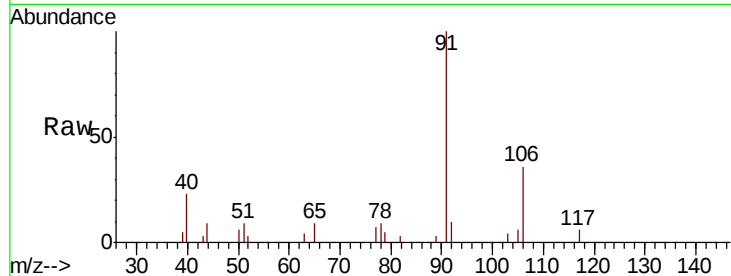




#67
Ethyl Benzene
Concen: 0.590 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

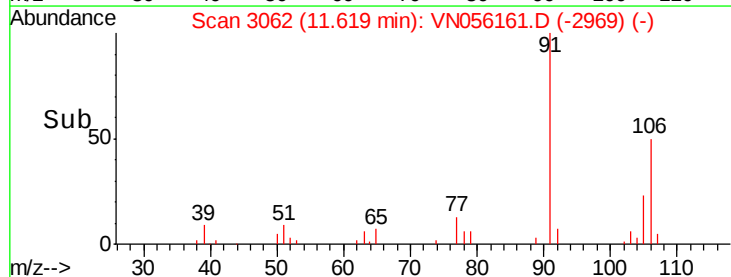
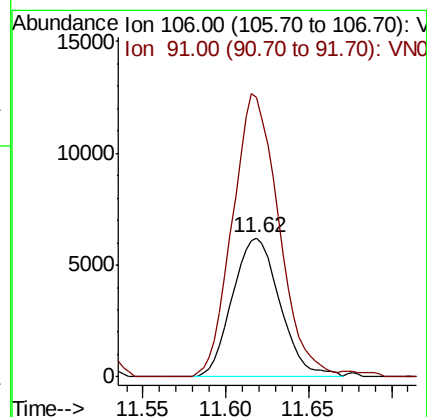
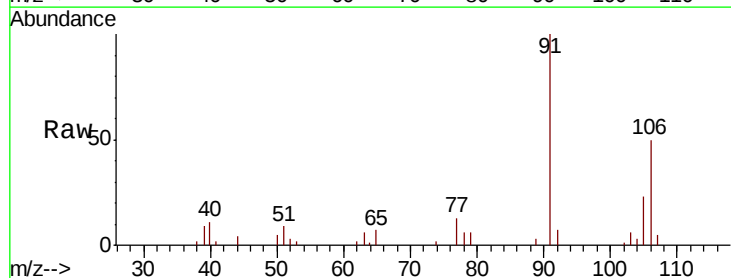
Instrument :
MSVOA_N
ClientSampled :

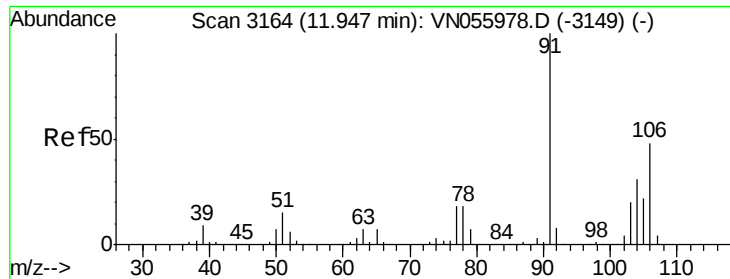
Tot Ion: 91 Resp: 9290
Ion Ratio Lower Upper
91 100
106 35.9 25.1 37.7



#68
m/p-Xylenes
Concen: 2.057 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion: 106 Resp: 12361
Ion Ratio Lower Upper
106 100
91 199.6 159.3 238.9

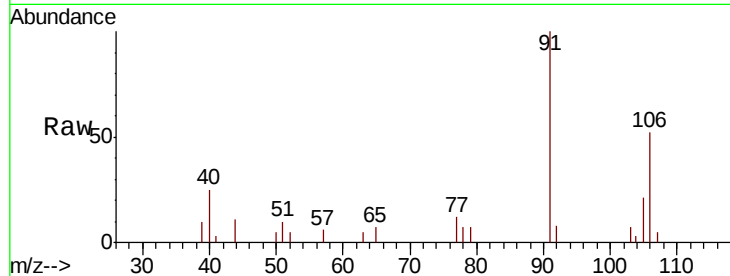




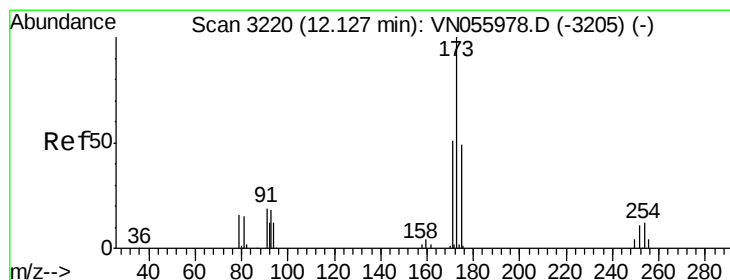
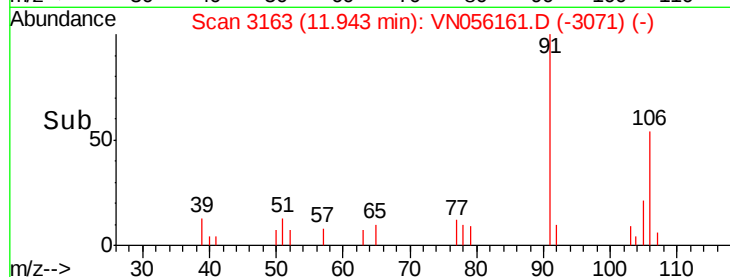
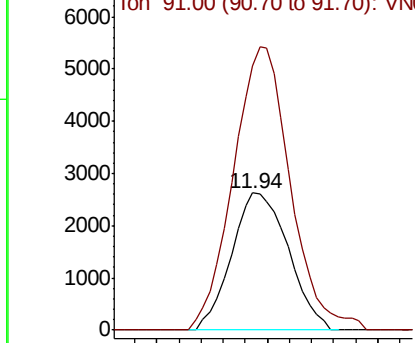
#69
o-Xylene
Concen: 0.793 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:106 Resp: 4689
Ion Ratio Lower Upper
106 100
91 208.0 104.7 314.1

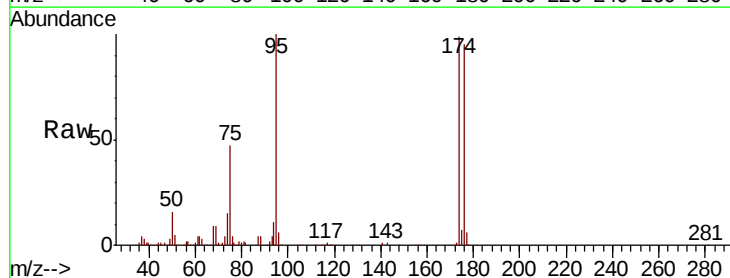


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

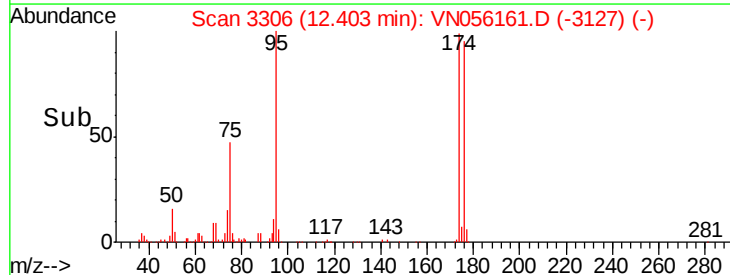
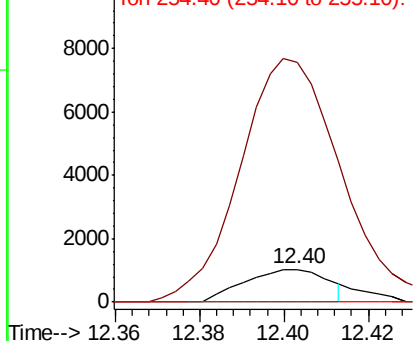


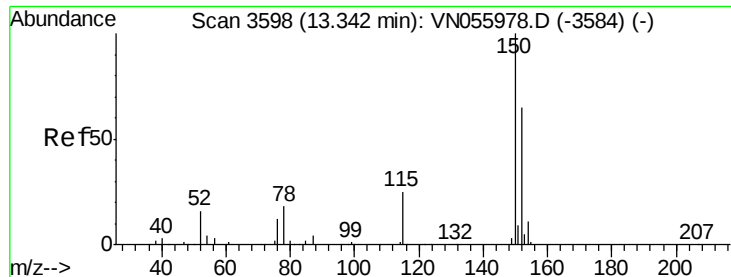
#71
Bromoform
Concen: 3.255 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion:173 Resp: 1422
Ion Ratio Lower Upper
173 100
175 778.5 24.3 72.8#
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



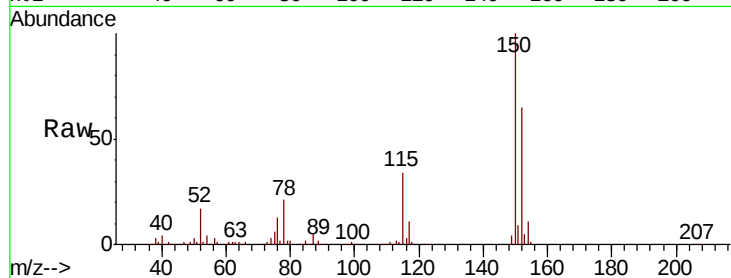


#72

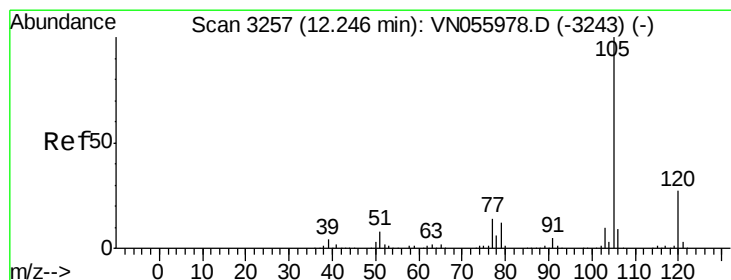
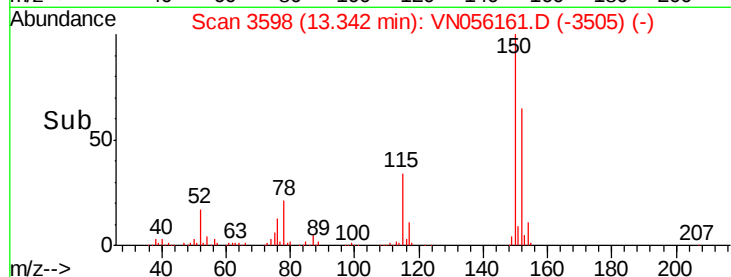
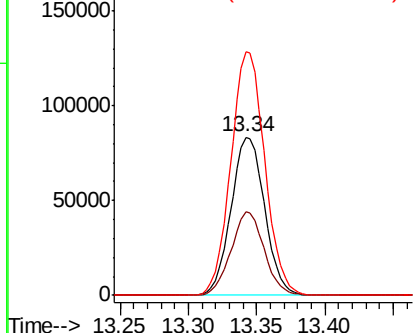
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.1	27.0	81.0
150	155.4	0.0	343.2



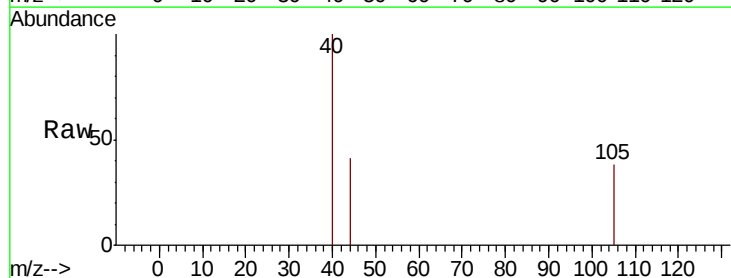
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



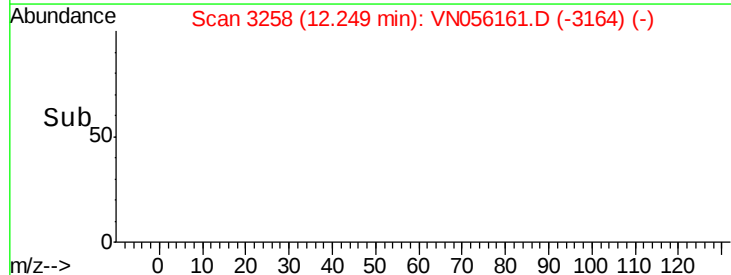
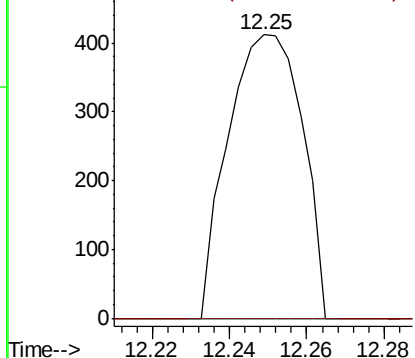
#73

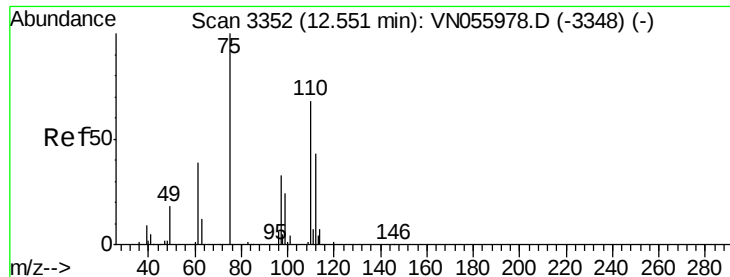
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 31.760 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

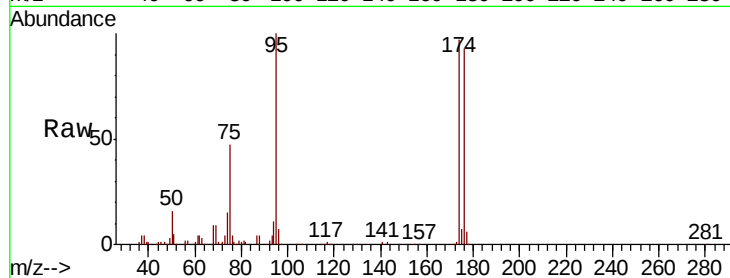
ClientSampled :

Tot Ion: 75 Resp: 83417

Ion Ratio Lower Upper

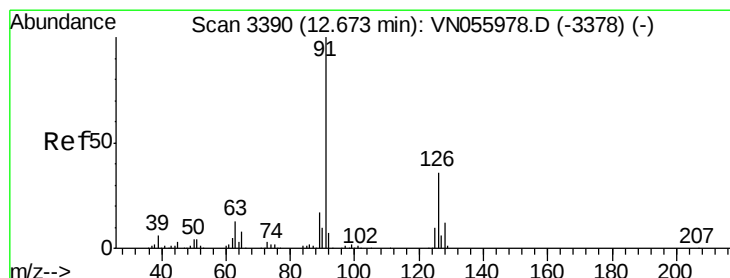
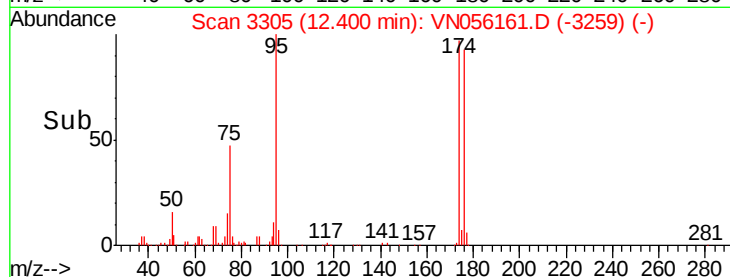
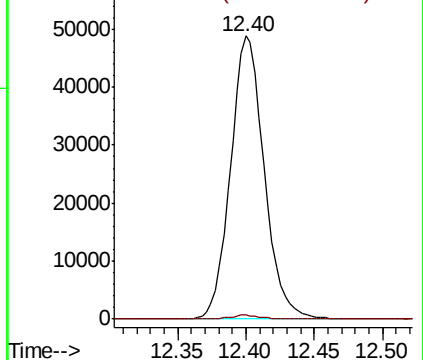
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VN056161.D

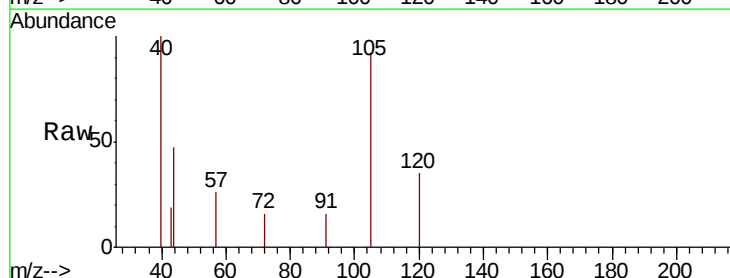
Acq: 10 Jun 2019 11:37

Tgt Ion: 91 Resp: 169

Ion Ratio Lower Upper

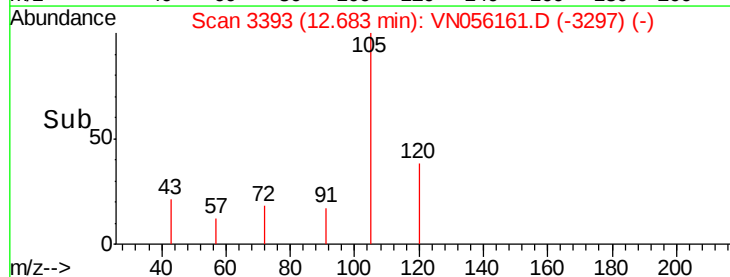
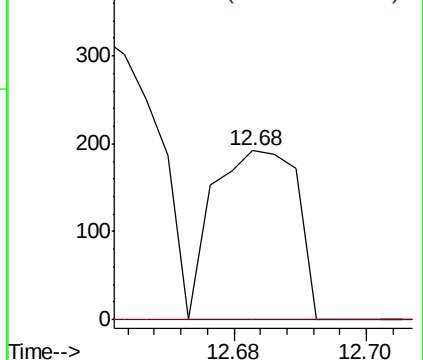
91 100

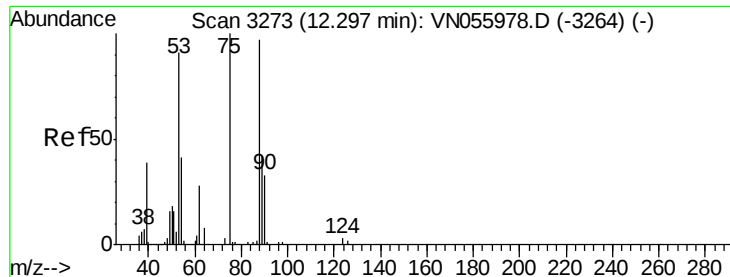
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 105.767 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

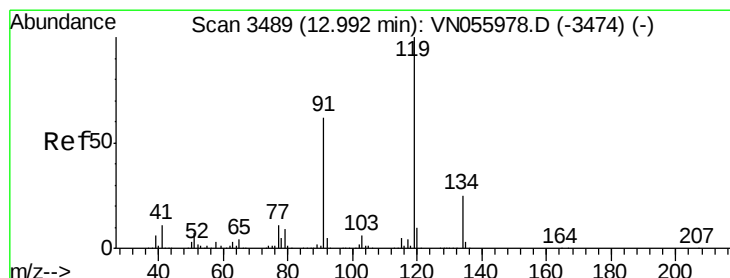
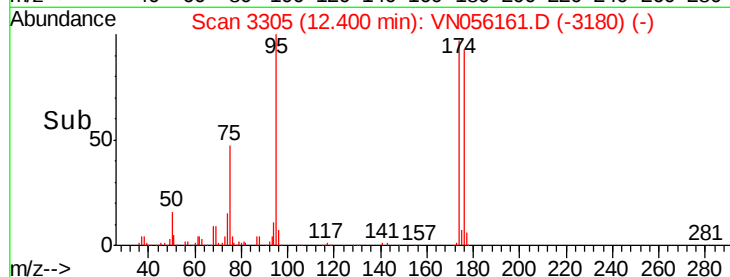
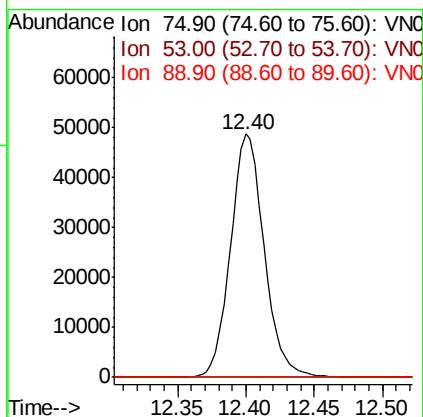
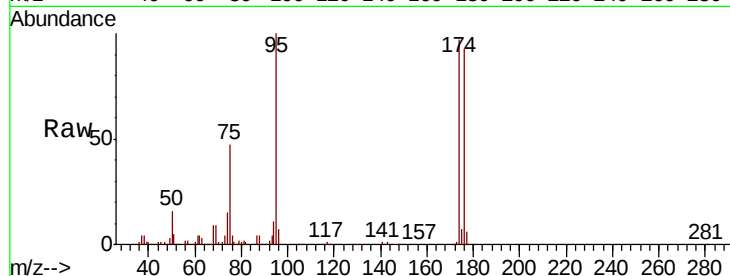
Tot Ion: 75 Resp: 83417

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

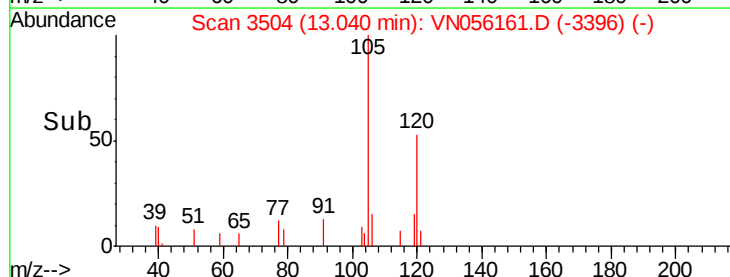
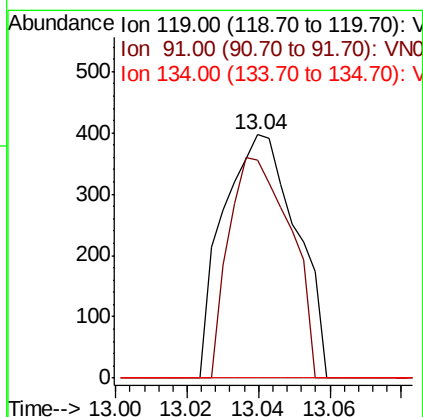
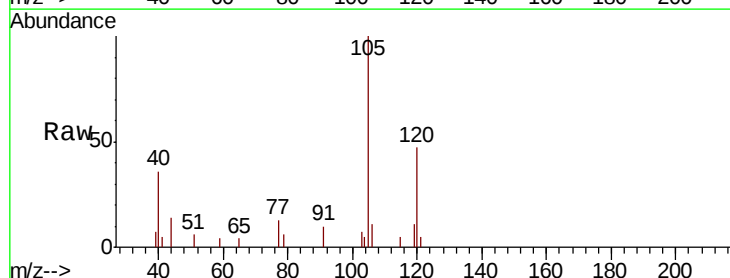
Tgt Ion: 119 Resp: 562

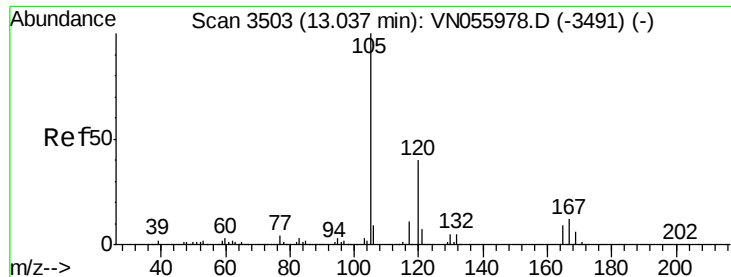
Ion Ratio Lower Upper

119 100

91 76.0 30.9 92.8

134 0.0 13.3 39.8#

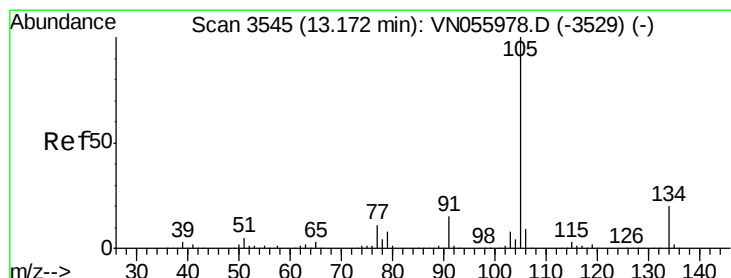
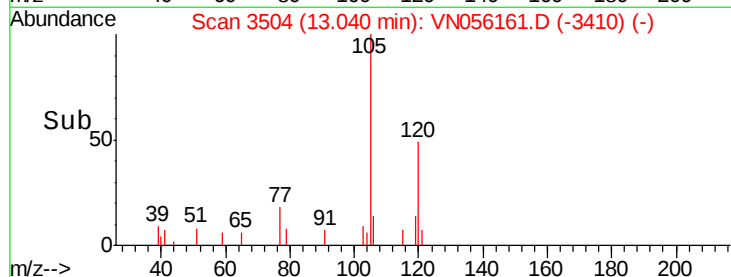
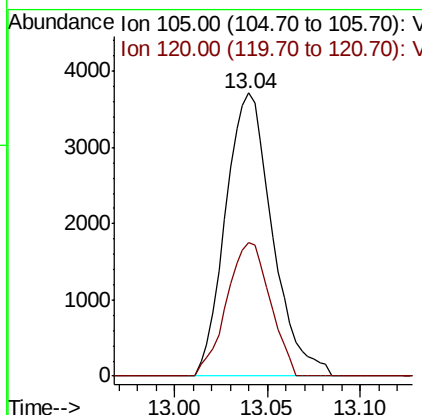
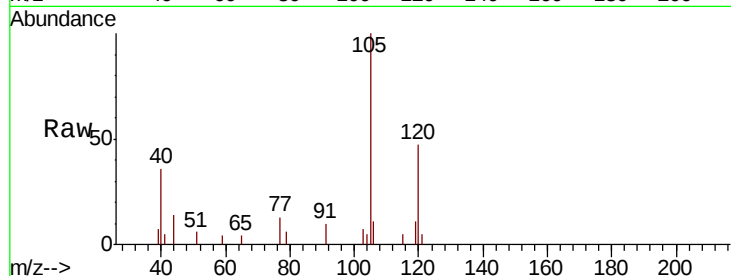




#84
1,2,4-Trimethylbenzene
Concen: 0.715 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

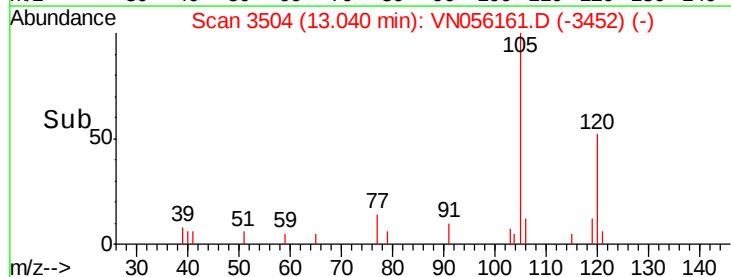
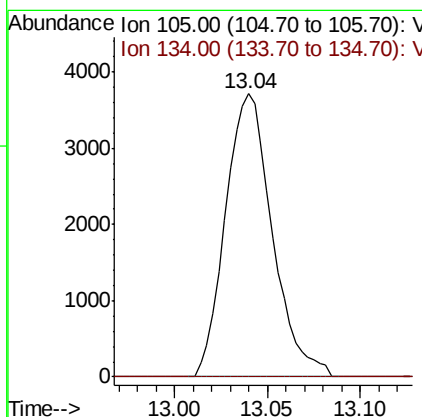
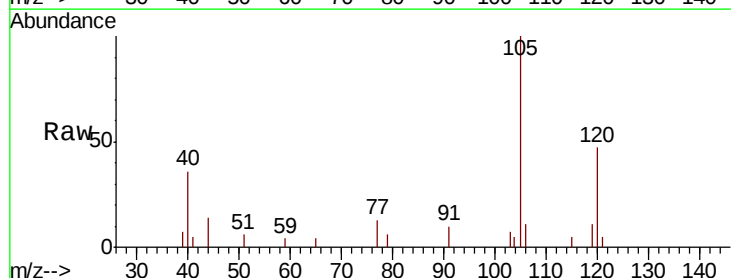
Instrument :
MSVOA_N
ClientSampleId :

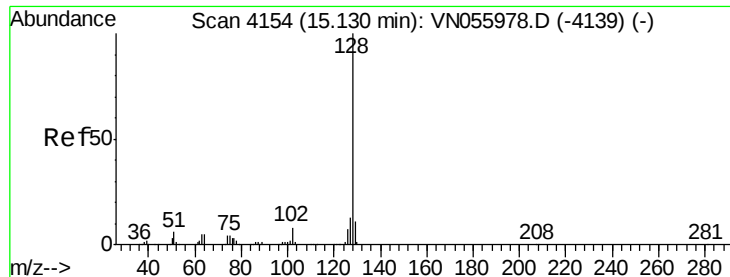
Tot Ion:105 Resp: 6511
Ion Ratio Lower Upper
105 100
120 43.9 23.0 69.0



#85
sec-Butylbenzene
Concen: 0.609 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.13 min
Lab File: VN056161.D
Acq: 10 Jun 2019 11:37

Tgt Ion:105 Resp: 6511
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.2#





#95

Naphthalene

Concen: 4.365 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

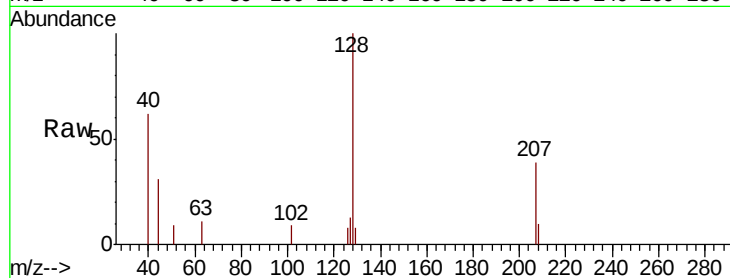
Tot Ion:128 Resp: 3800

Ion Ratio Lower Upper

128 100

127 6.0 10.3 15.5#

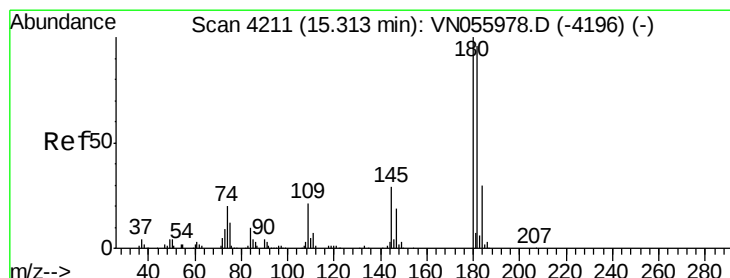
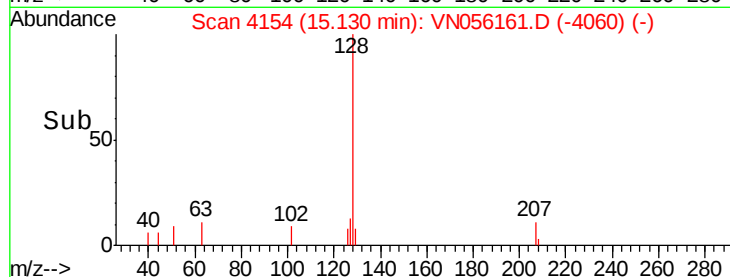
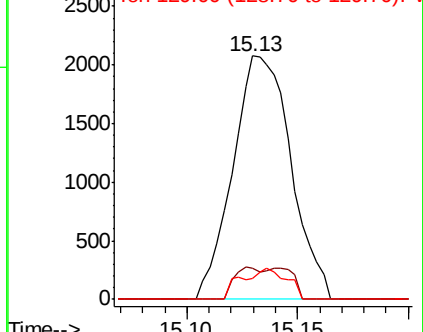
129 10.0 8.7 13.1



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: 3.083 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

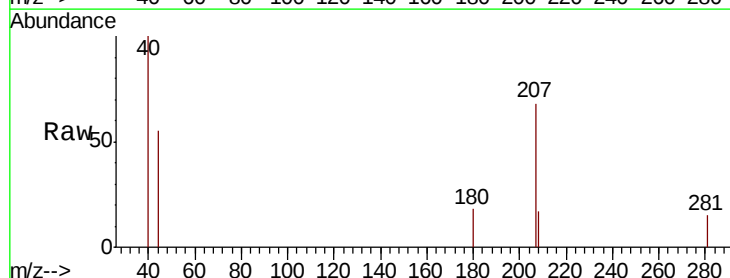
Tgt Ion:180 Resp: 148

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 0.0 14.9 44.7#



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

