

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059158.D
 Acq On : 11 Nov 2019 14:09
 Operator : JC/SP
 Sample : K5769-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 00:41:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	458800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	719350	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	617165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222743	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	299392	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
35) Dibromofluoromethane	7.57	113	222095	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
50) Toluene-d8	10.08	98	865934	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	12.40	95	272222	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	

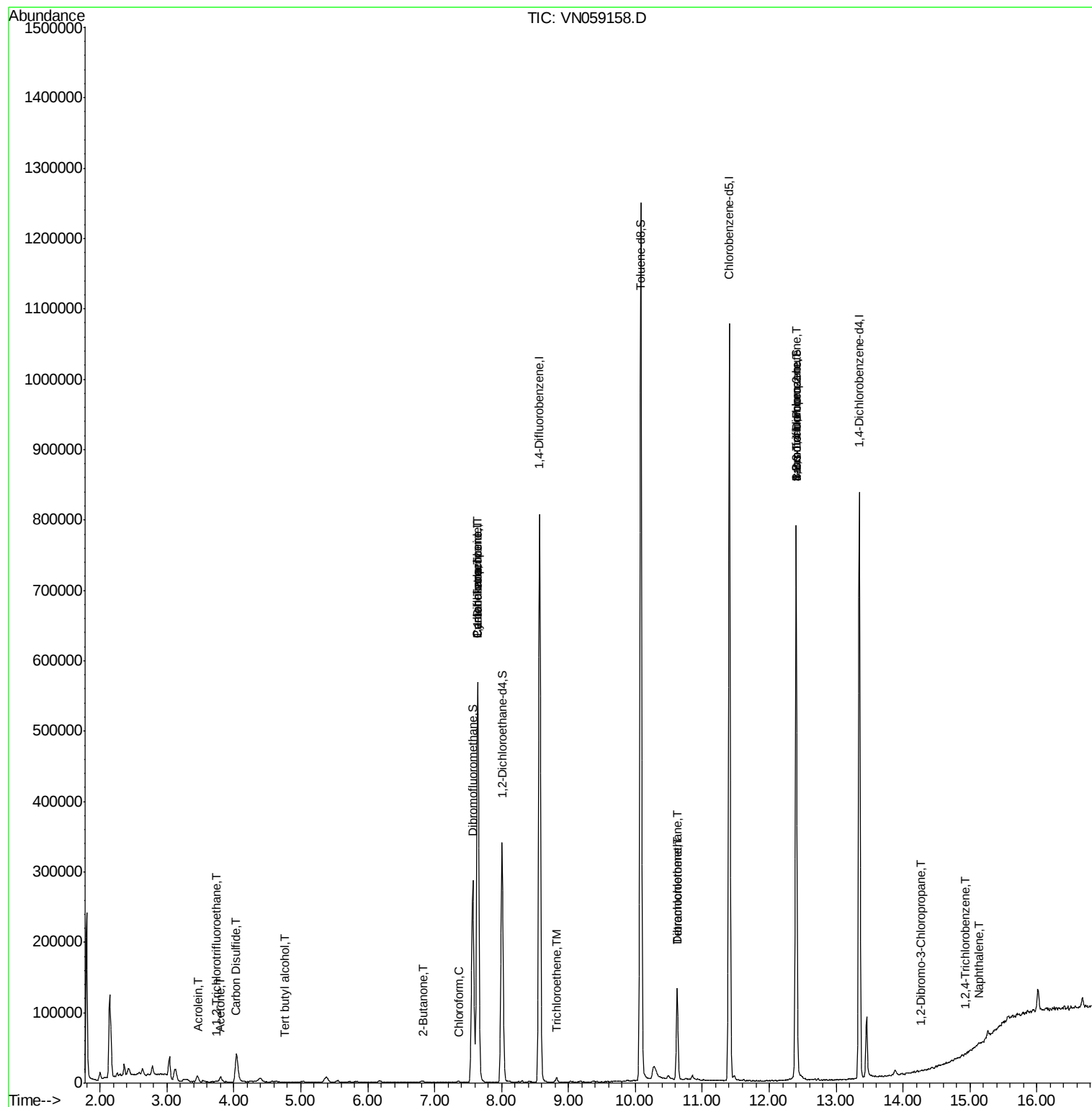
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.73	101	1210	0.275	ug/l #	83
11) Tert butyl alcohol	4.75	59	254	0.236	ug/l #	72
13) Acrolein	3.47	56	112	0.202	ug/l #	14
16) Acetone	3.80	43	12106	4.128	ug/l	100
17) Carbon Disulfide	4.02	76	3644	0.274	ug/l	97
25) 2-Butanone	6.82	43	1771	0.458	ug/l	99
30) Chloroform	7.35	83	1791	0.201	ug/l	85
31) Cyclohexane	7.64	56	10416	1.186	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	35554	5.288	ug/l #	50
38) Carbon Tetrachloride	7.64	117	44090	6.588	ug/l #	16
44) Trichloroethene	8.82	130	2371	0.476	ug/l	95
60) Dibromochloromethane	10.62	129	29544	5.689	ug/l #	11
64) Tetrachloroethene	10.63	164	30258	7.210	ug/l	98
71) Bromoform	12.40	173	1256	0.358	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	139479	27.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	139479	72.647	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.28	75	207	0.214	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	105	3.070	ug/l #	84
95) Naphthalene	15.14	128	681	3.100	ug/l #	70

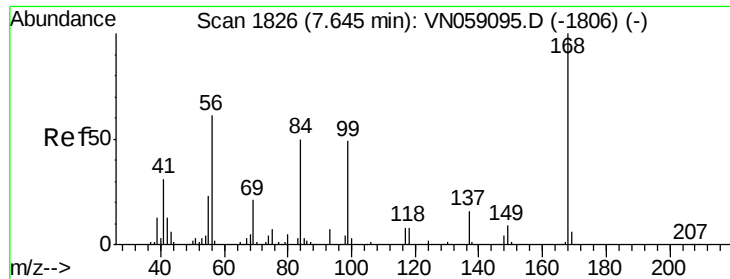
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

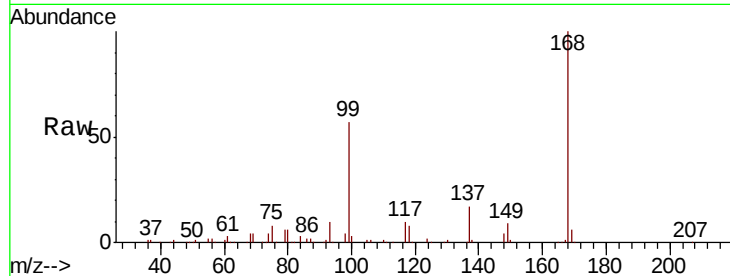
ClientSampleId :

Tot Ion:168 Resp: 458800

Ion Ratio Lower Upper

168 100

99 57.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

150000

100000

50000

0

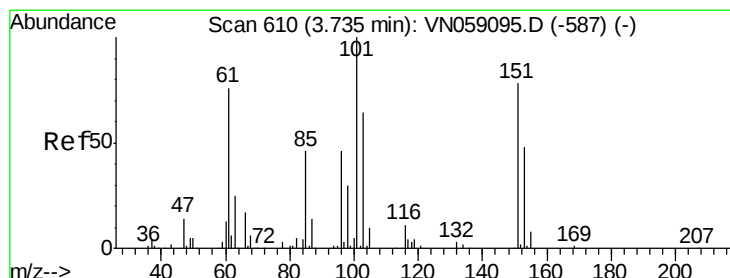
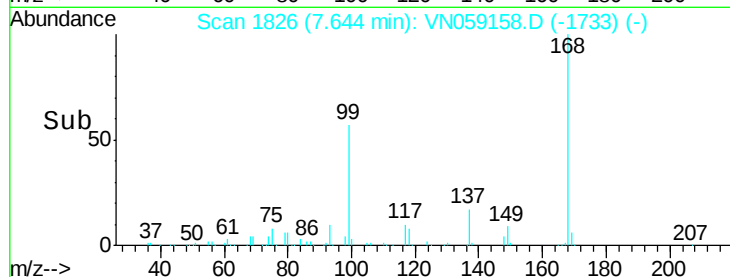
Time-->

7.50

7.60

7.70

7.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.275 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

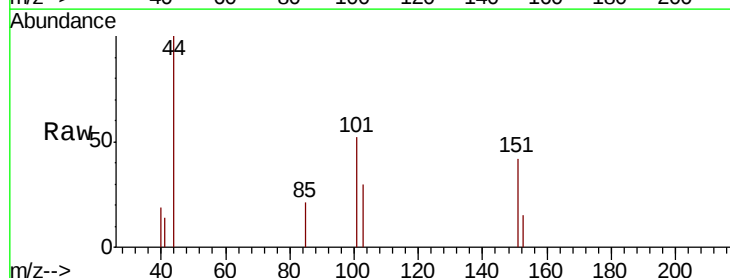
Tgt Ion:101 Resp: 1210

Ion Ratio Lower Upper

101 100

85 26.8 35.5 53.3#

151 67.7 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

3.73

800

600

400

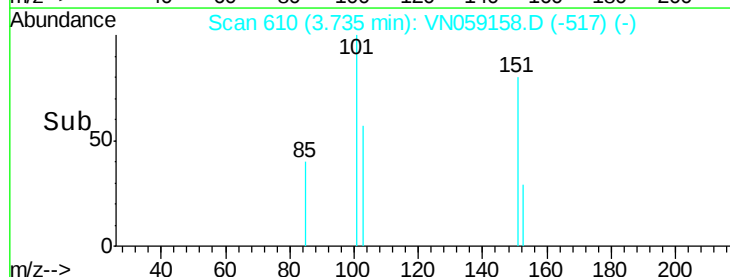
200

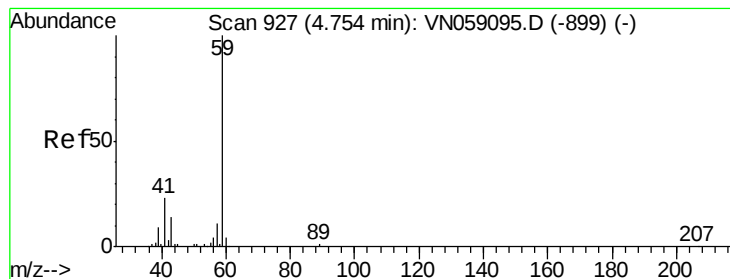
0

Time-->

3.70

3.75





#11

Tert butyl alcohol

Concen: 0.236 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

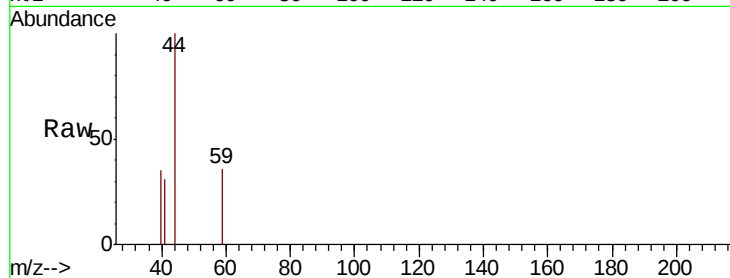
ClientSampled :

Tot Ion: 59 Resp: 254

Ion Ratio Lower Upper

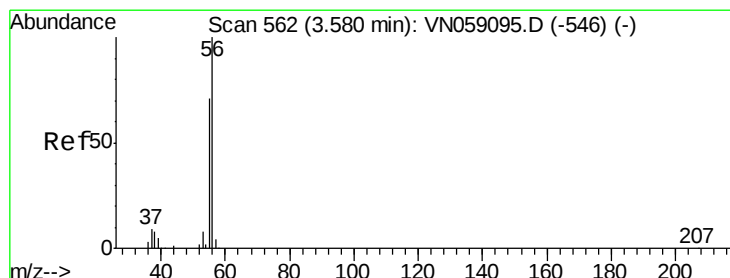
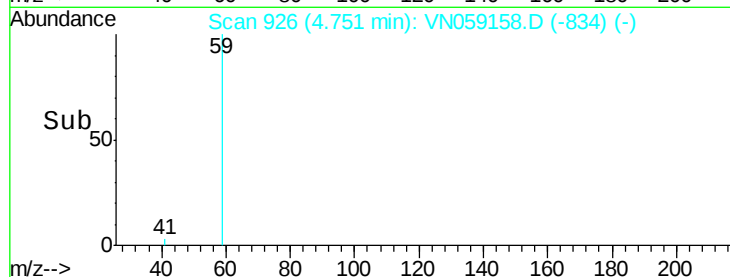
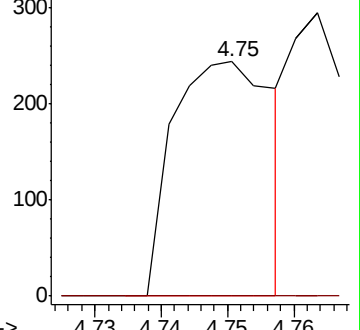
59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.202 ug/l

RT: 3.47 min Scan# 527

Delta R.T. -0.11 min

Lab File: VN059158.D

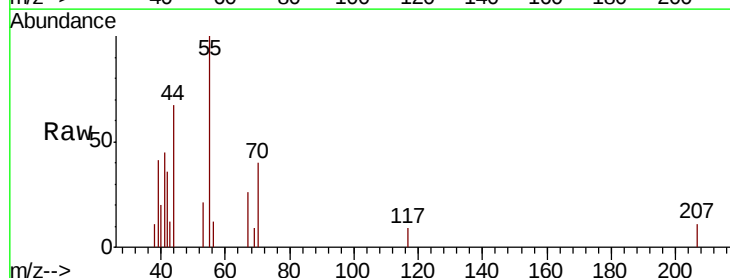
Acq: 11 Nov 2019 14:09

Tgt Ion: 56 Resp: 112

Ion Ratio Lower Upper

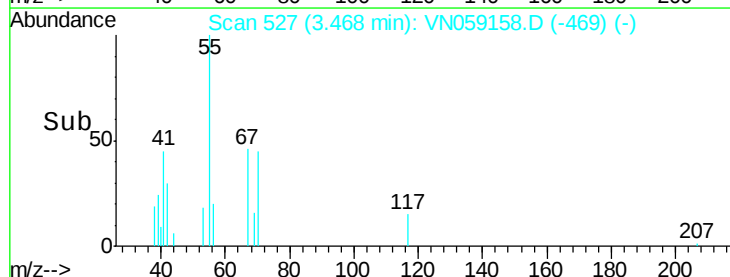
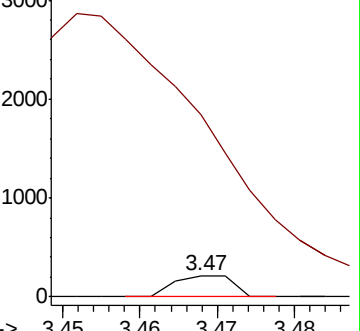
56 100

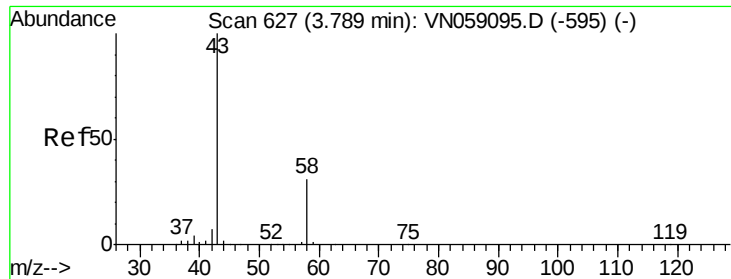
55 0.0 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 4.128 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

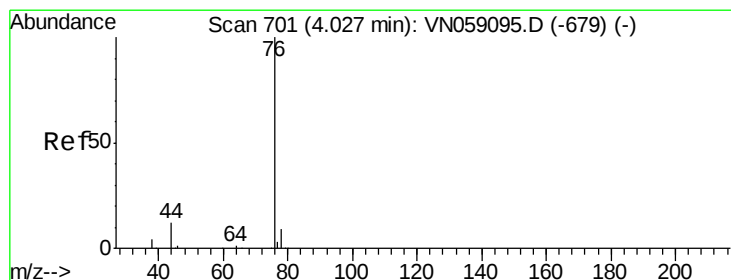
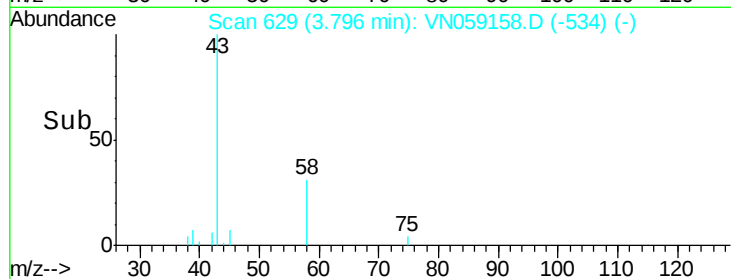
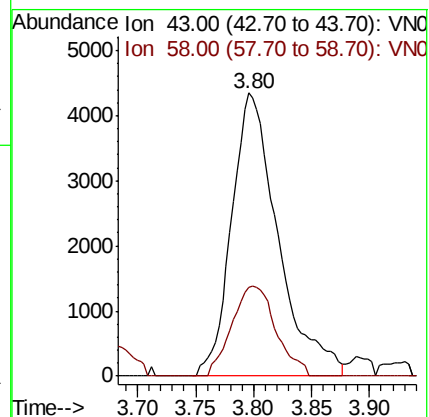
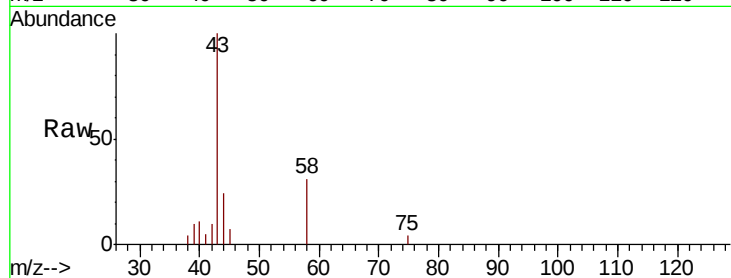
ClientSampleId :

Tot Ion: 43 Resp: 12106

Ion Ratio Lower Upper

43 100

58 31.3 24.9 37.3



#17

Carbon Disulfide

Concen: 0.274 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.01 min

Lab File: VN059158.D

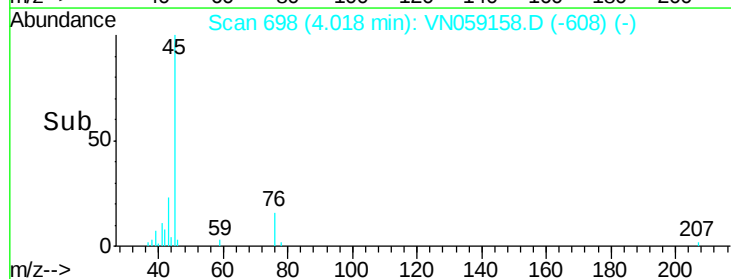
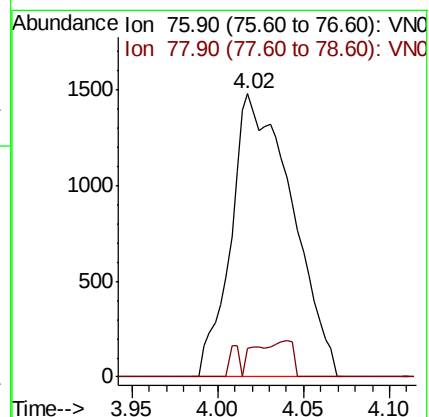
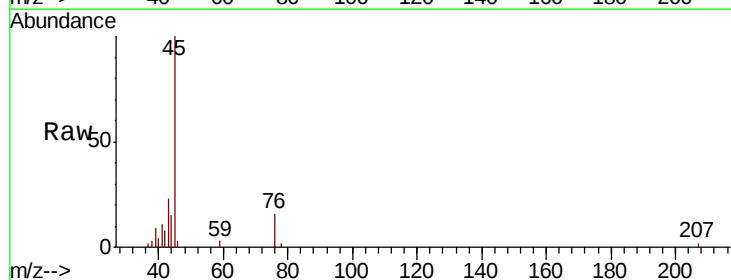
Acq: 11 Nov 2019 14:09

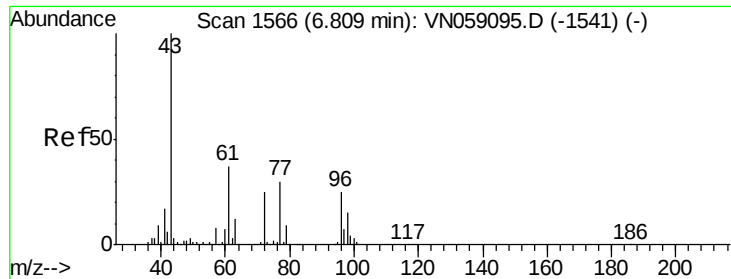
Tgt Ion: 76 Resp: 3644

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.0





#25

2-Butanone

Concen: 0.458 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.02 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

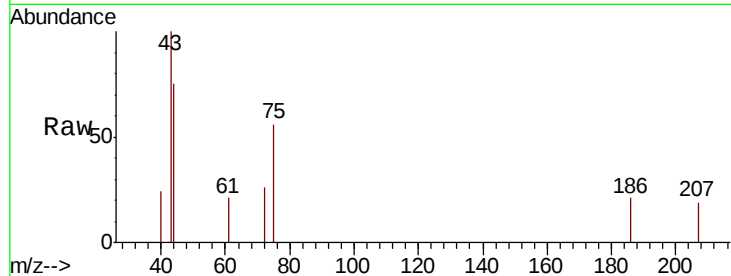
ClientSampleId :

Tot Ion: 43 Resp: 1771

Ion Ratio Lower Upper

43 100

72 25.7 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

800

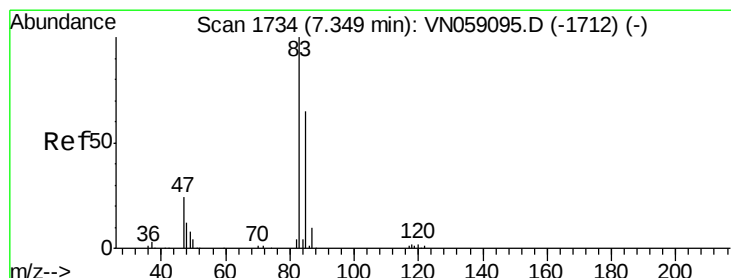
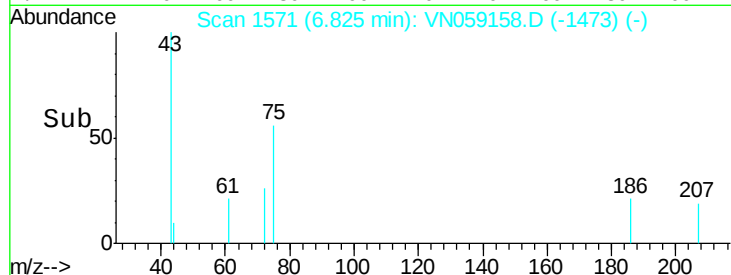
600

400

200

0

Time--> 6.75 6.80 6.85



#30

Chloroform

Concen: 0.201 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. -0.00 min

Lab File: VN059158.D

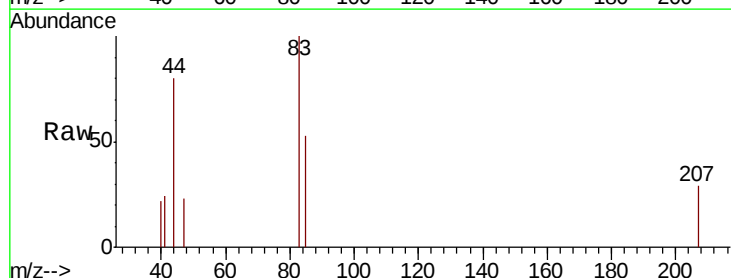
Acq: 11 Nov 2019 14:09

Tgt Ion: 83 Resp: 1791

Ion Ratio Lower Upper

83 100

85 52.6 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.35

800

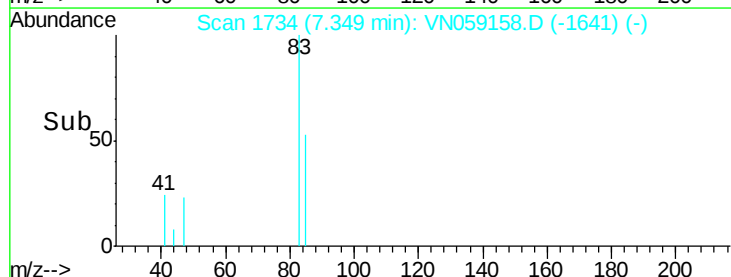
600

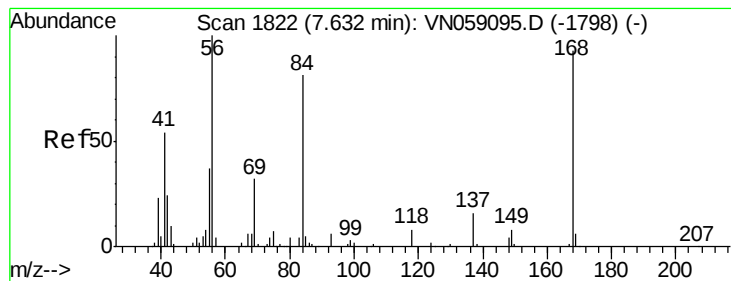
400

200

0

Time--> 7.30 7.35 7.40





#31

Cyclohexane

Concen: 1.186 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampled :

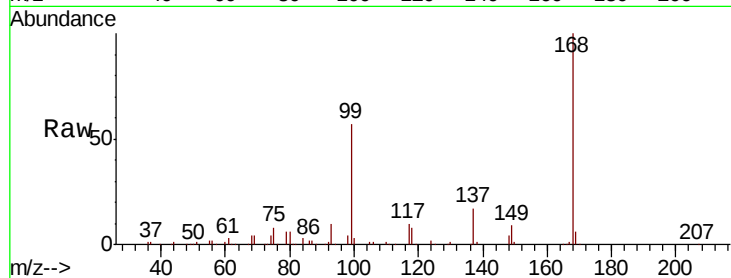
Tot Ion: 56 Resp: 10416

Ion Ratio Lower Upper

56 100

69 174.5 25.8 38.8#

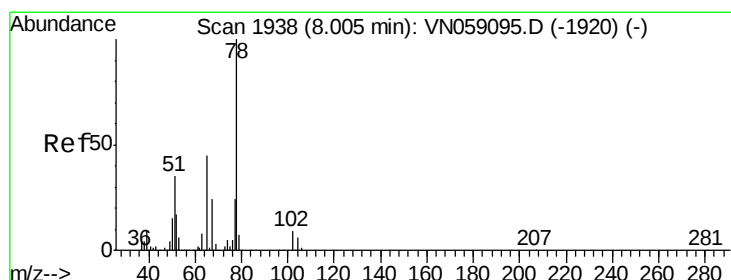
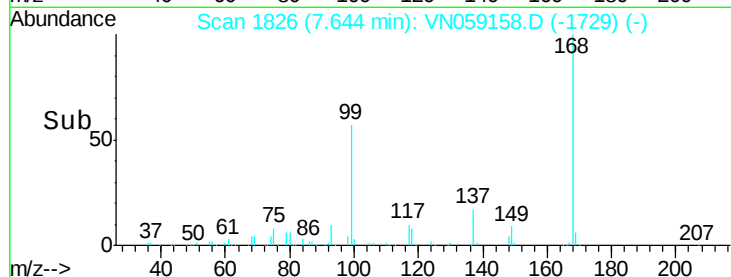
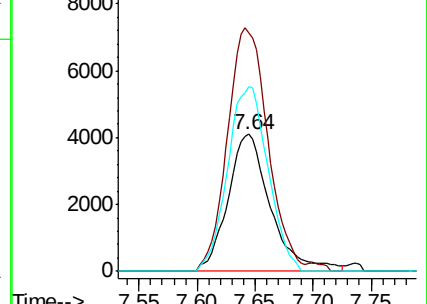
84 135.3 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.085 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059158.D

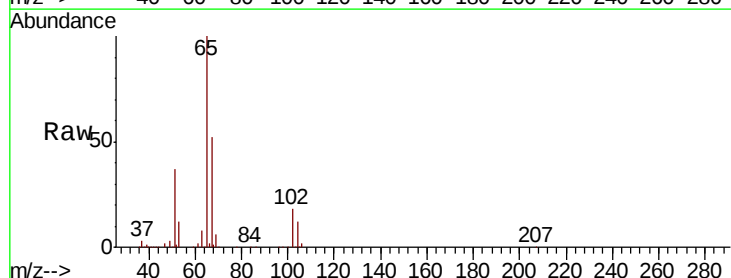
Acq: 11 Nov 2019 14:09

Tgt Ion: 65 Resp: 299392

Ion Ratio Lower Upper

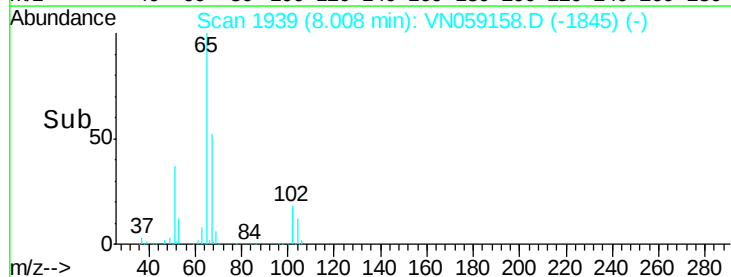
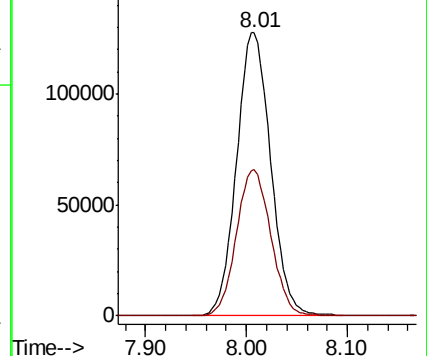
65 100

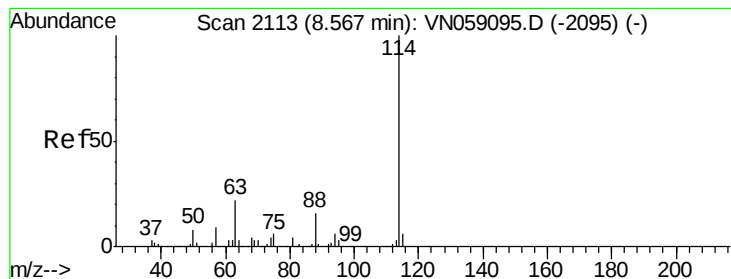
67 52.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

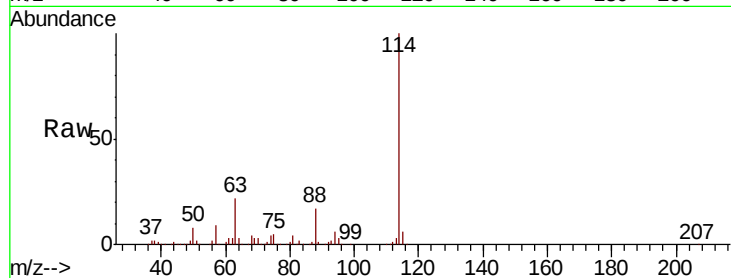
Tot Ion:114 Resp: 719350

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.4

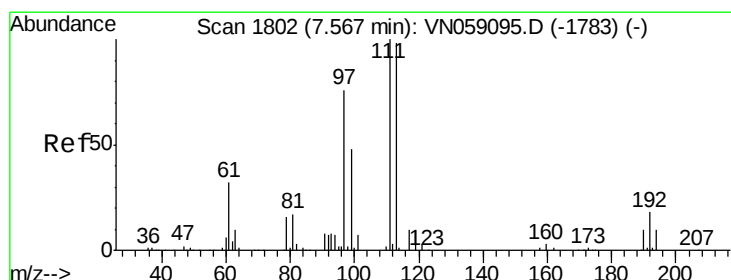
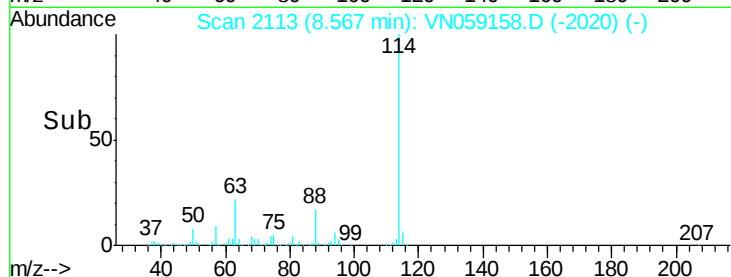
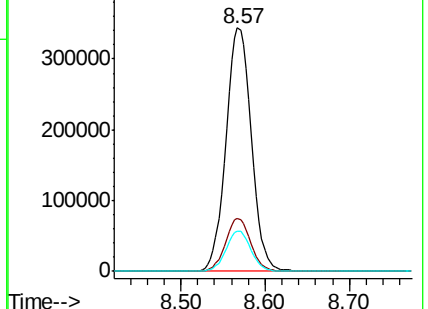
88 16.5 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 51.707 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

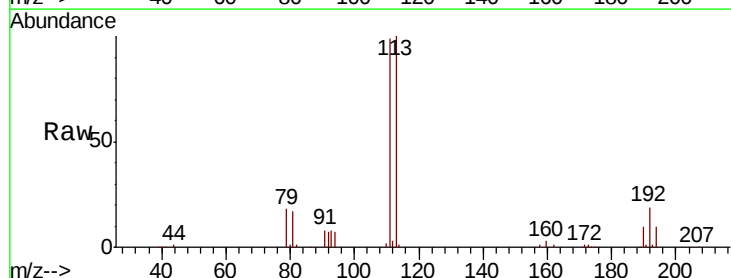
Tgt Ion:113 Resp: 222095

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

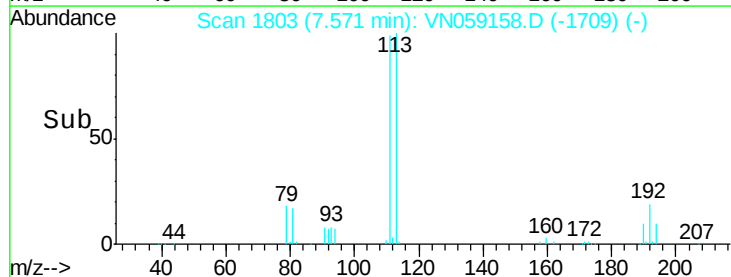
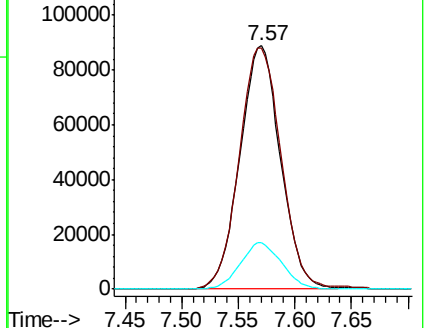
192 19.4 16.1 24.1

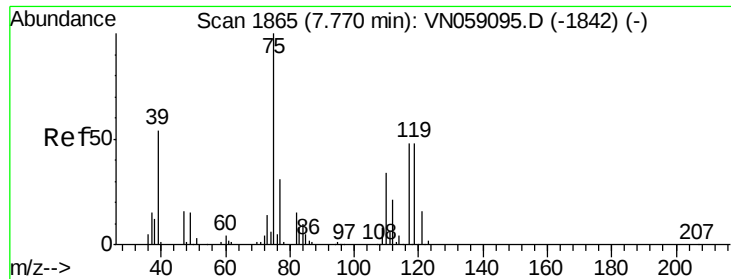


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

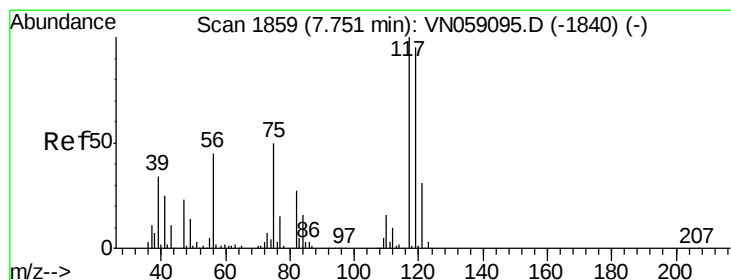
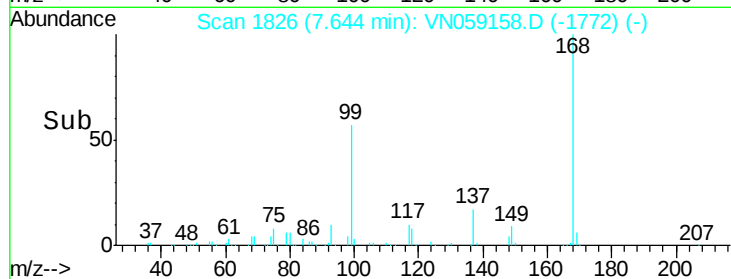
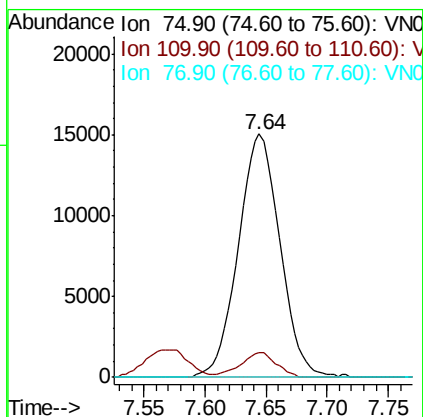
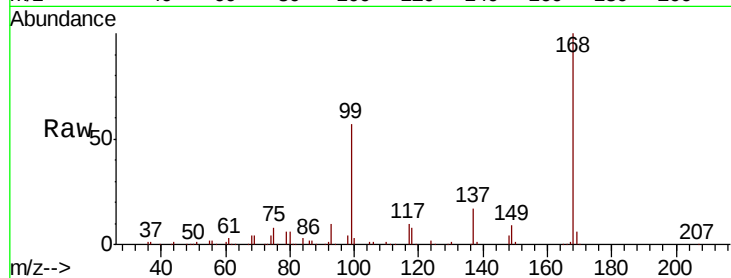




#36
 1,1-Dichloropropene
 Concen: 5.288 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059158.D
 Acq: 11 Nov 2019 14:09

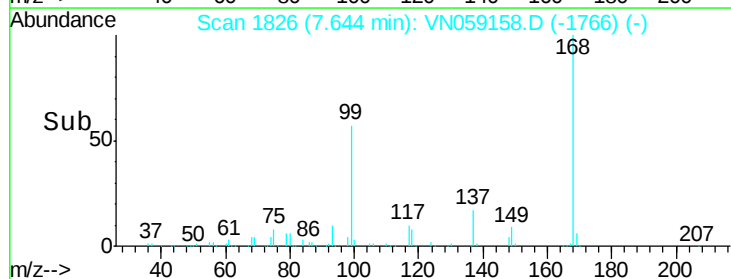
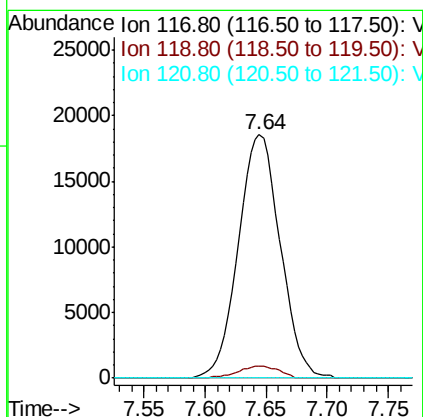
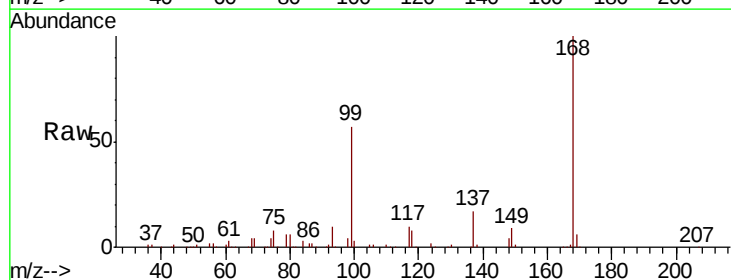
Instrument :
 MSVOA_N
 ClientSampled :

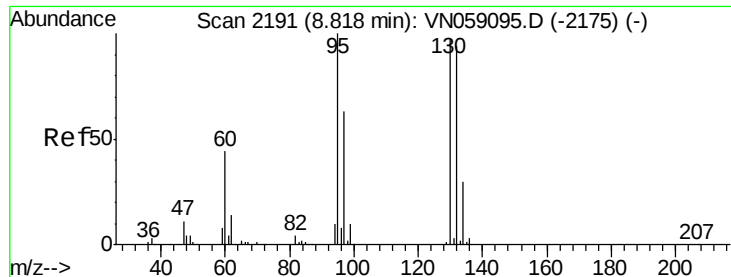
Tot Ion	75	Resp	35554
Ion Ratio	Lower	Upper	
75	100		
110	8.8	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.588 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059158.D
 Acq: 11 Nov 2019 14:09

Tgt Ion	117	Resp	44090
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.0	75.6	113.4#
121	0.0	24.6	36.8#





#44

Trichloroethene

Concen: 0.476 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

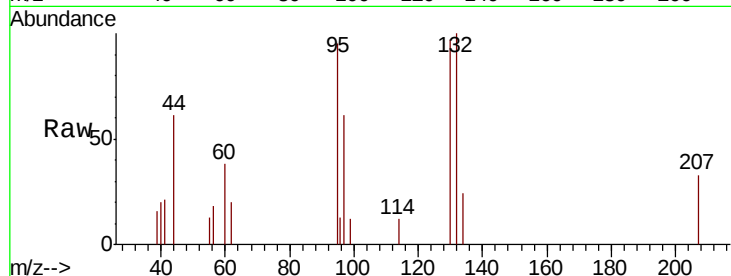
ClientSampled :

Tot Ion:130 Resp: 2371

Ion Ratio Lower Upper

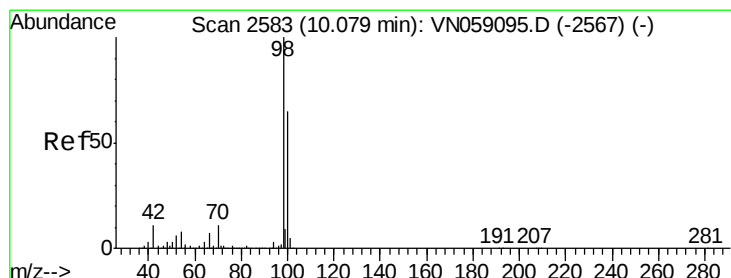
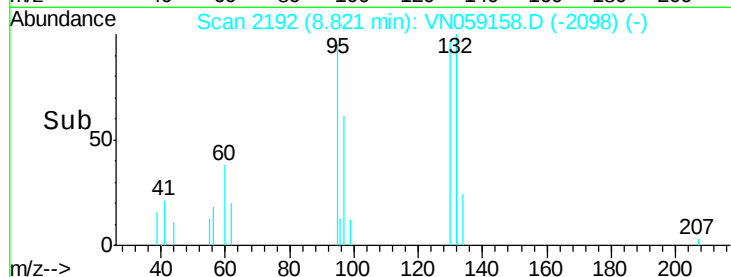
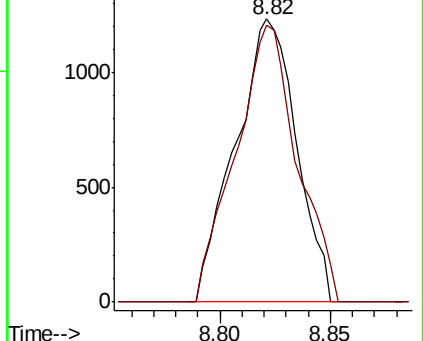
130 100

95 98.0 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 51.183 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059158.D

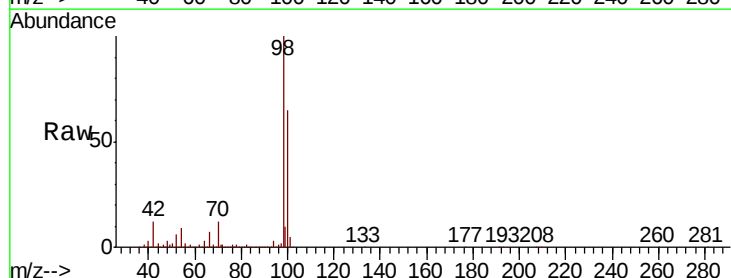
Acq: 11 Nov 2019 14:09

Tgt Ion: 98 Resp: 865934

Ion Ratio Lower Upper

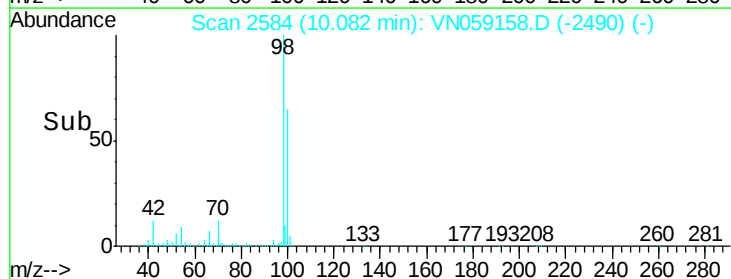
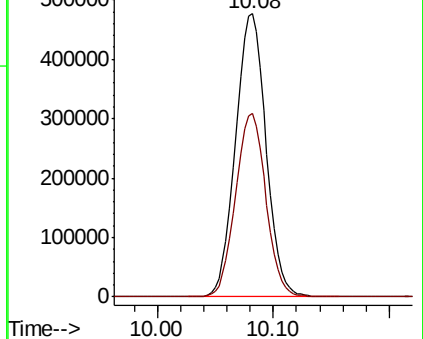
98 100

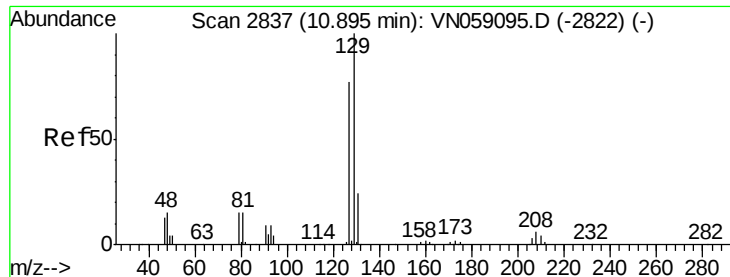
100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#60

Dibromochloromethane

Concen: 5.689 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.27 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

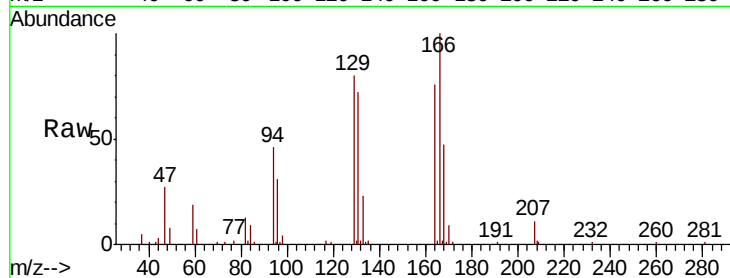
ClientSampled :

Tot Ion:129 Resp: 29544

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.62

15000

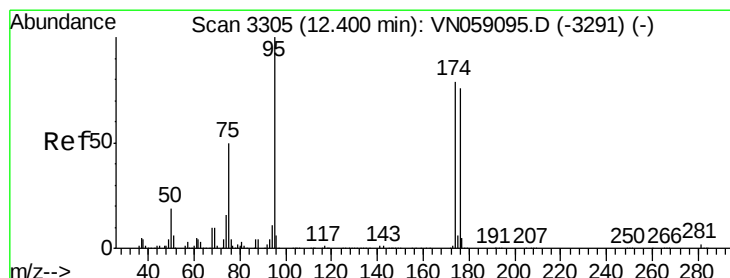
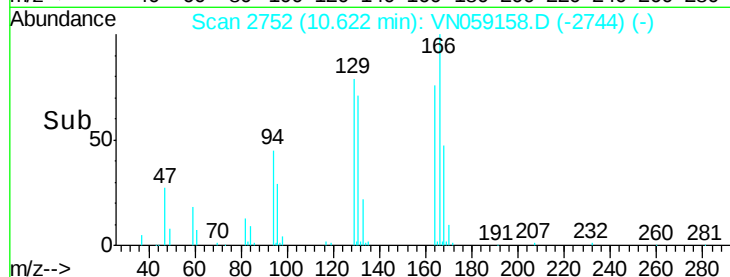
10000

5000

0

Time-->

10.60 10.65



#62

4-Bromofluorobenzene

Concen: 44.625 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

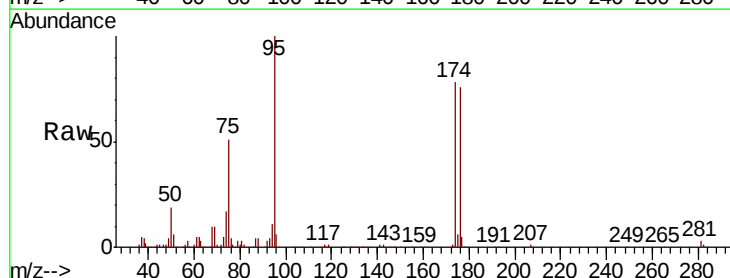
Tgt Ion: 95 Resp: 272222

Ion Ratio Lower Upper

95 100

174 78.3 0.0 158.2

176 76.4 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

200000

150000

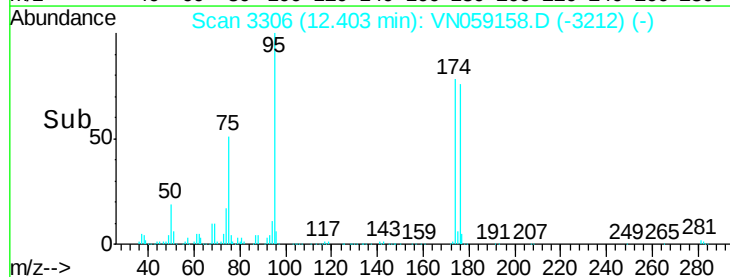
100000

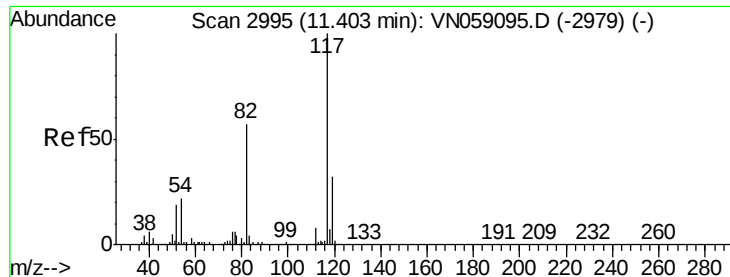
50000

0

Time-->

12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampled :

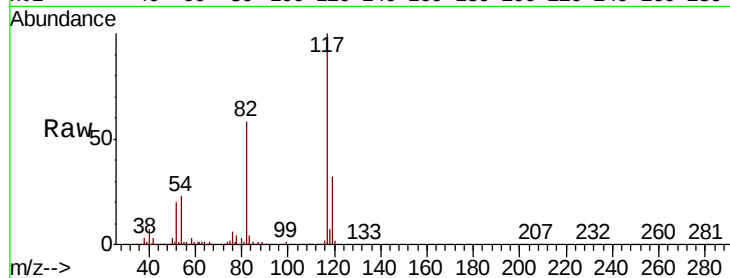
Tot Ion:117 Resp: 617165

Ion Ratio Lower Upper

117 100

82 57.7 45.8 68.8

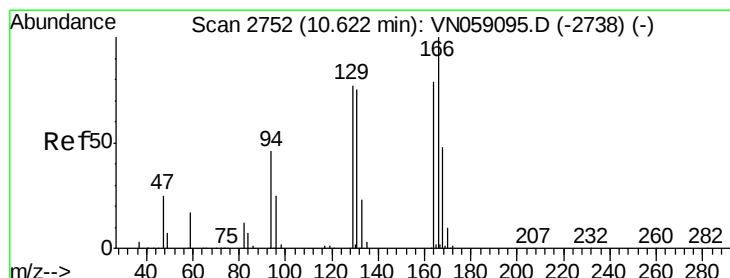
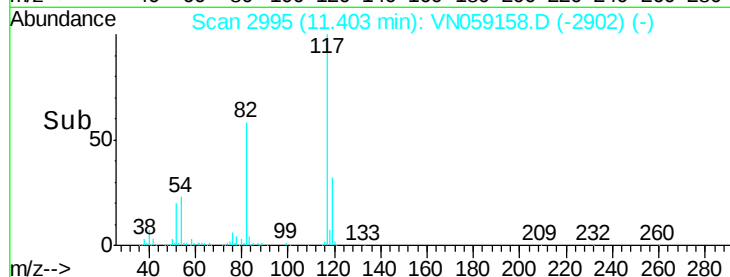
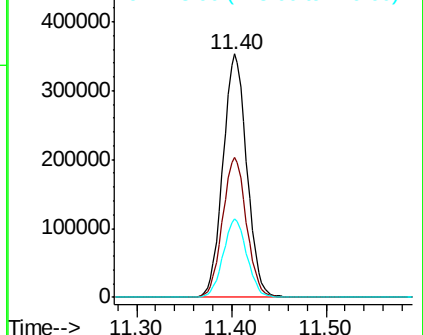
119 32.1 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 7.210 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Tgt Ion:164 Resp: 30258

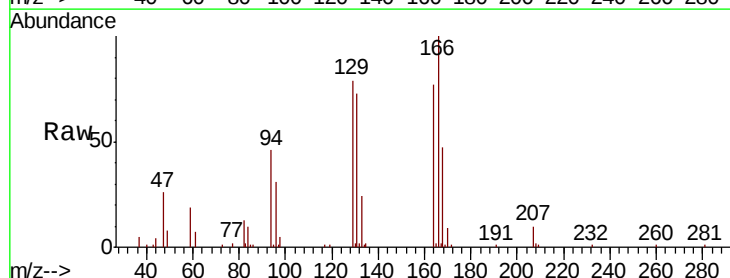
Ion Ratio Lower Upper

164 100

166 129.5 101.5 152.3

129 102.6 78.3 117.5

131 94.6 75.9 113.9

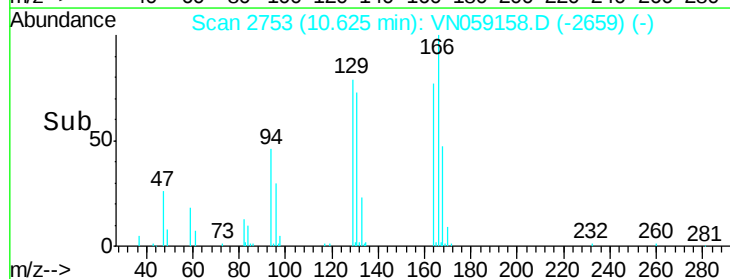
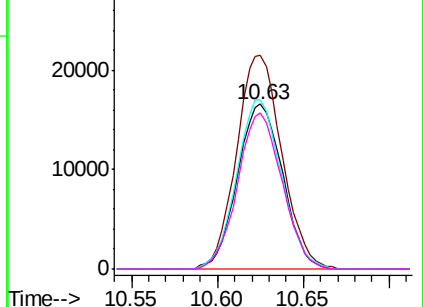


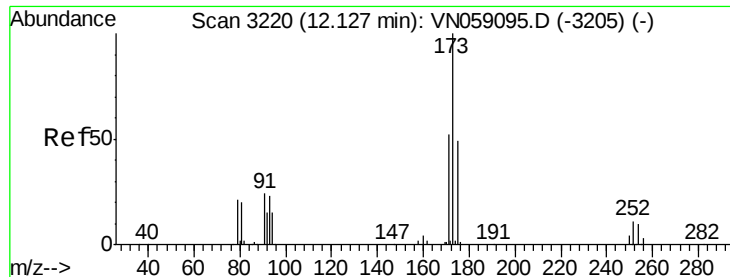
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.358 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

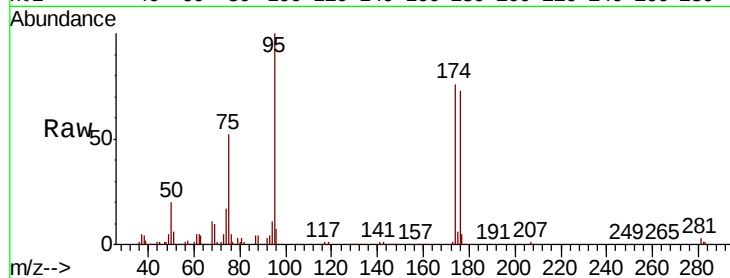
Tot Ion:173 Resp: 1256

Ion Ratio Lower Upper

173 100

175 1055.7 24.2 72.6#

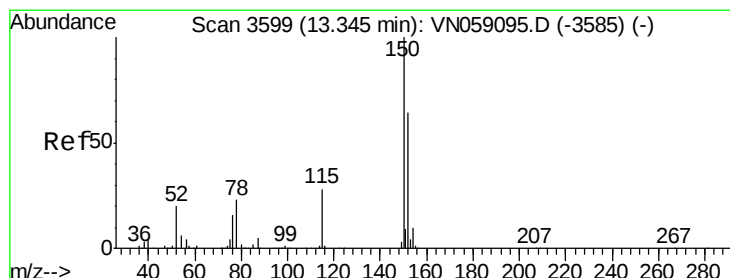
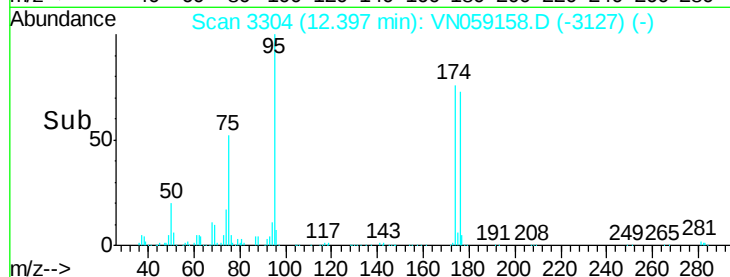
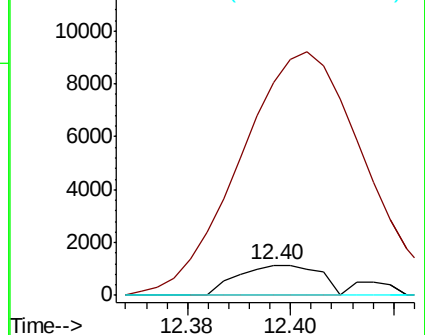
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

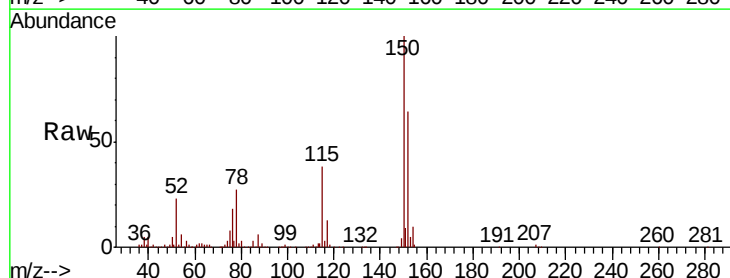
Tgt Ion:152 Resp: 222743

Ion Ratio Lower Upper

152 100

115 59.6 29.4 88.2

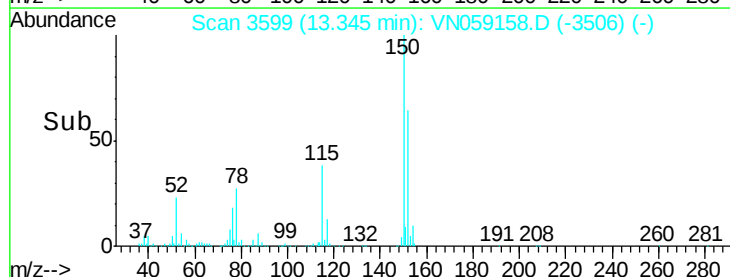
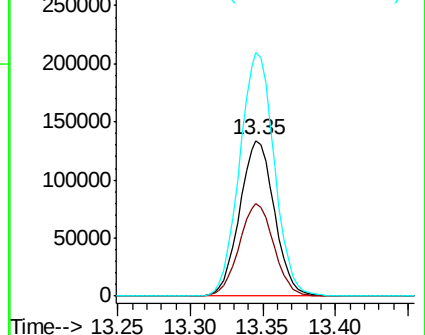
150 156.6 0.0 345.8

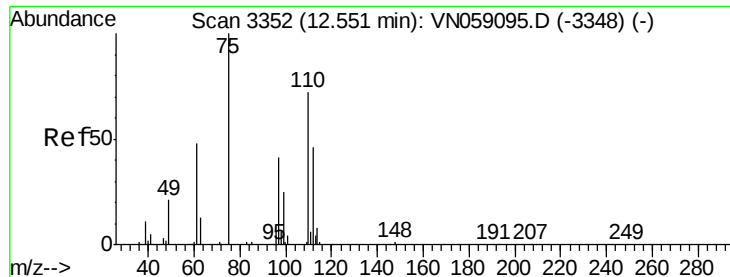


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.505 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

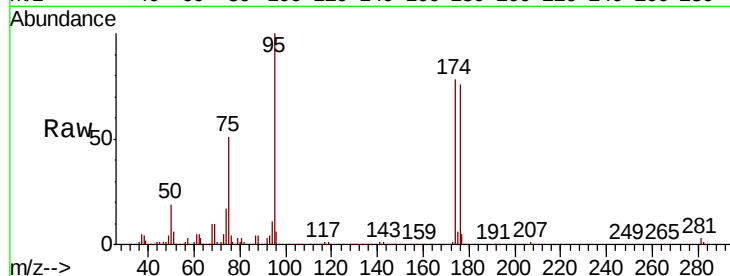
ClientSampleId :

Tot Ion: 75 Resp: 139479

Ion Ratio Lower Upper

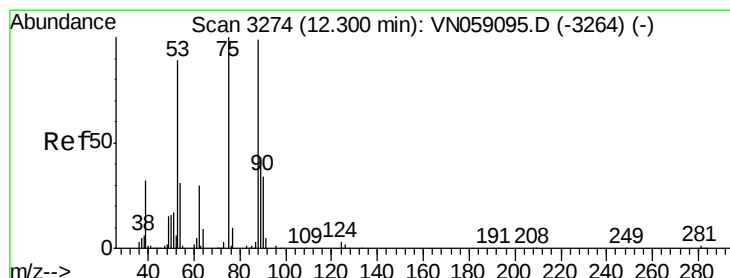
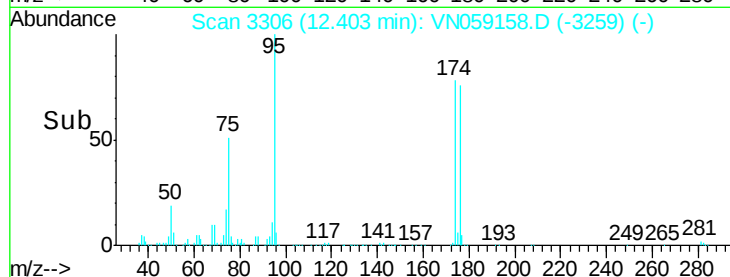
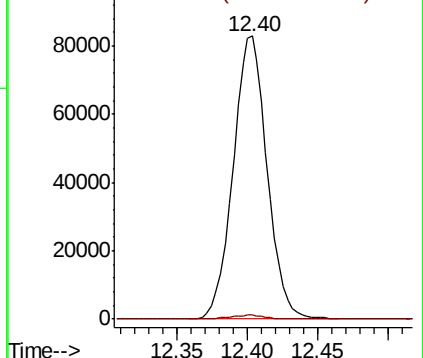
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 72.647 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

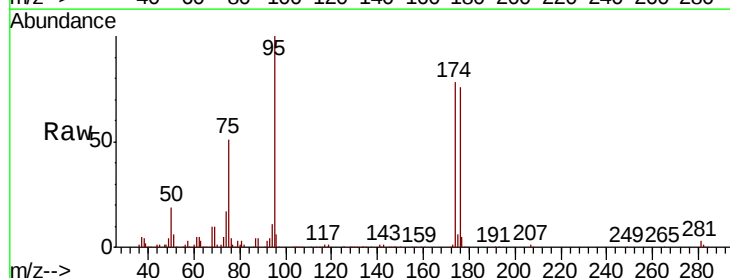
Tgt Ion: 75 Resp: 139479

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

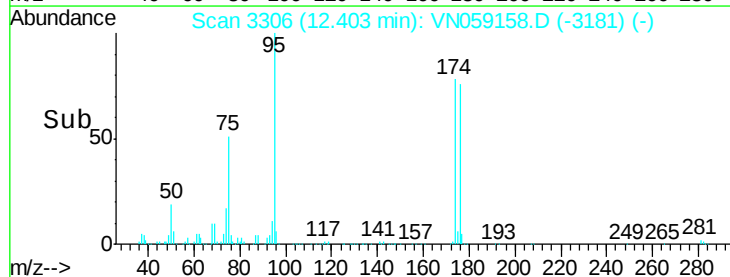
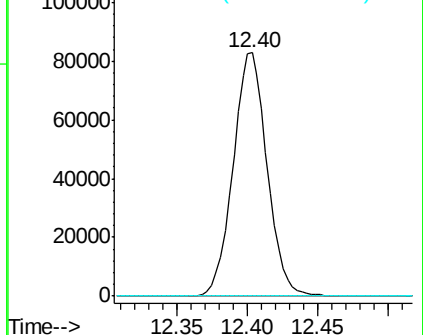
89 0.0 35.8 53.8#

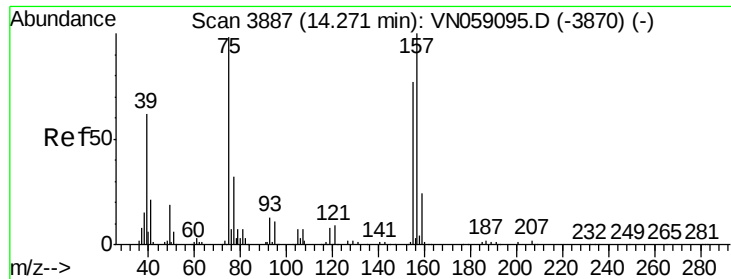


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.214 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

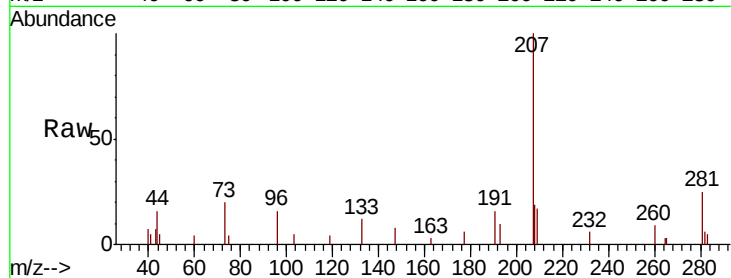
Tot Ion: 75 Resp: 207

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

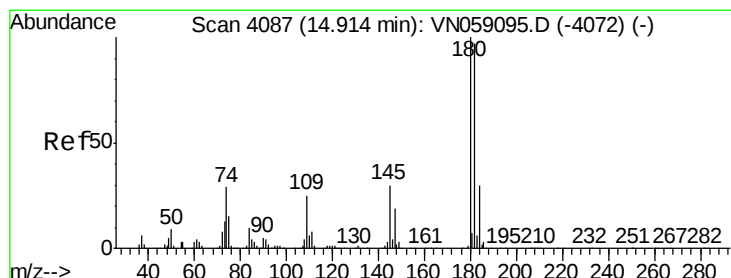
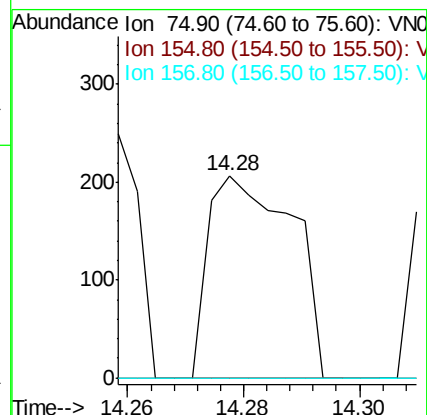
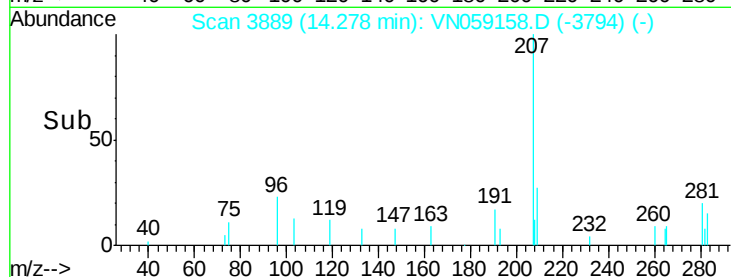
157 0.0 51.8 155.5#



Abundance Ion 74.90 (74.60 to 75.60): VN059158.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN059158.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN059158.D (-3794) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.070 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

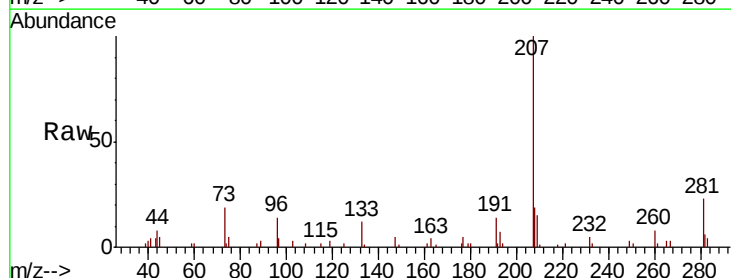
Tgt Ion: 180 Resp: 105

Ion Ratio Lower Upper

180 100

182 100.0 48.1 144.3

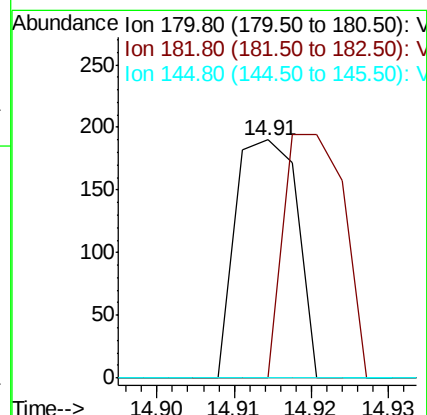
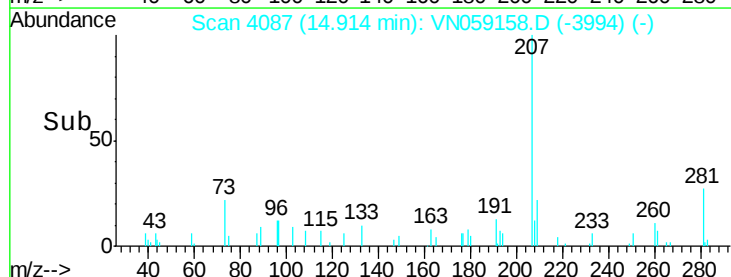
145 0.0 15.1 45.3#

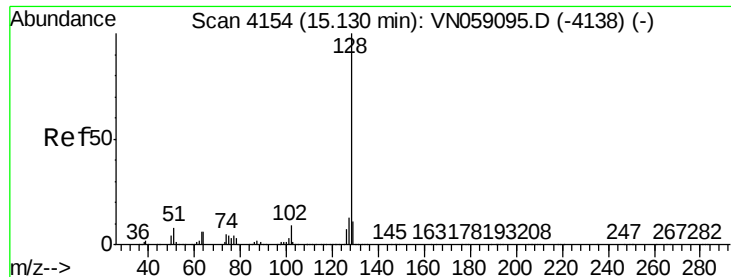


Abundance Ion 179.80 (179.50 to 180.50): VN059158.D (-3994) (-)

Ion 181.80 (181.50 to 182.50): VN059158.D (-3994) (-)

Ion 144.80 (144.50 to 145.50): VN059158.D (-3994) (-)





#95

Naphthalene

Concen: 3.100 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

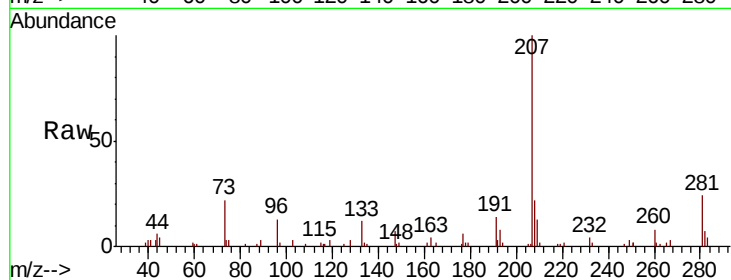
Lab File: VN059158.D

Acq: 11 Nov 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :



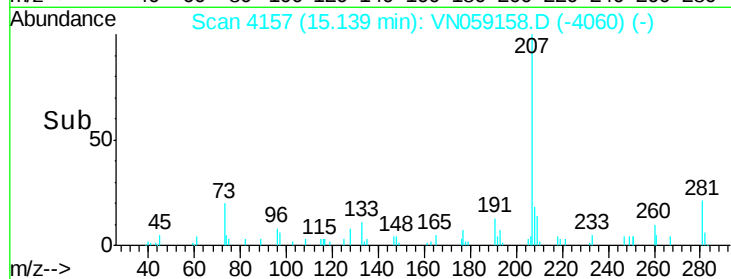
Tot Ion:128 Resp: 681

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

