

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071819\
 Data File : VW011342.D
 Acq On : 18 Jul 2019 18:55
 Operator : SY/VA
 Sample : K3903-01
 Misc : 5.73G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 18107-NYCT-AVE-Z-TP-1

Quant Time: Jul 19 06:46:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	184123	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	321678	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	279664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	119806	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	136192	58.87	ug/l	0.00
Spiked Amount			Recovery	=	117.74%	
35) Dibromofluoromethane	7.88	113	100389	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
50) Toluene-d8	10.32	98	403204	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	12.62	95	136345	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	

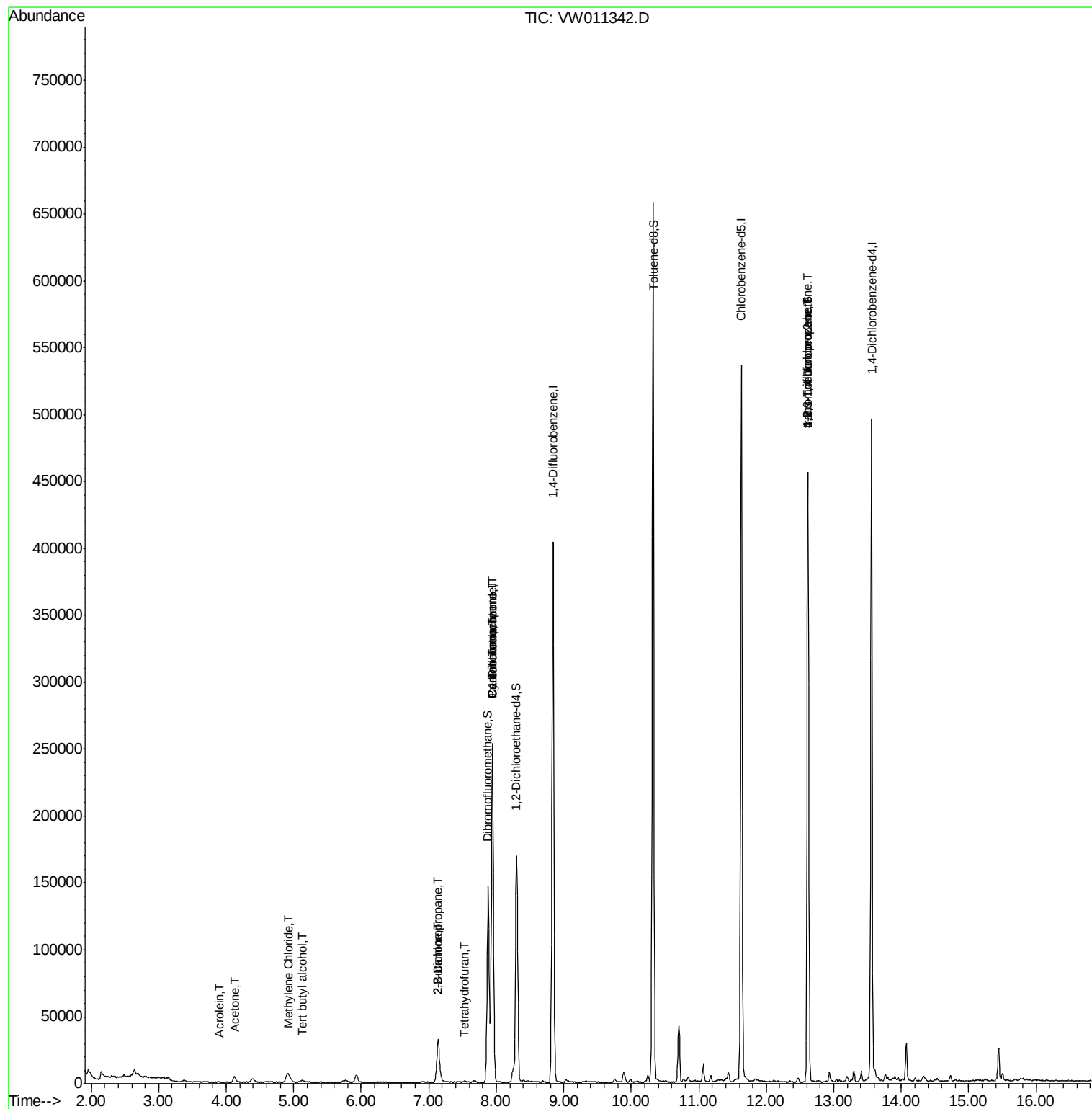
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	1785	10.421	ug/l #	74
13) Acrolein	3.90	56	297	2.177	ug/l	91
16) Acetone	4.13	43	8168	14.673	ug/l #	82
18) Methyl Acetate	4.65	43	222	Below Cal	#	57
20) Methylene Chloride	4.92	84	5719	2.604	ug/l	89
25) 2-Butanone	7.14	43	1892	2.165	ug/l #	69
26) 2,2-Dichloropropane	7.13	77	2253	1.029	ug/l #	53
29) Tetrahydrofuran	7.53	42	841	1.468	ug/l #	83
31) Cyclohexane	7.94	56	4955	1.106	ug/l #	8
36) 1,1-Dichloropropene	7.94	75	16653	4.861	ug/l #	51
38) Carbon Tetrachloride	7.95	117	18333	6.313	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	73356	52.983	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	73356	119.838	ug/l #	6

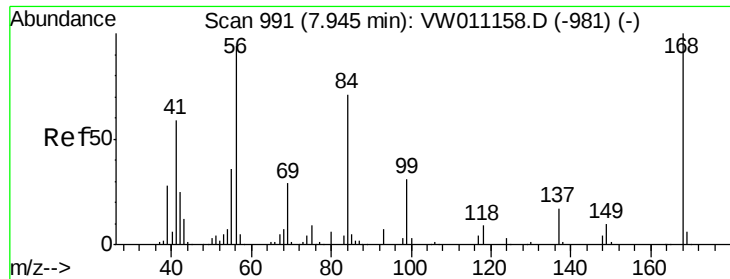
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

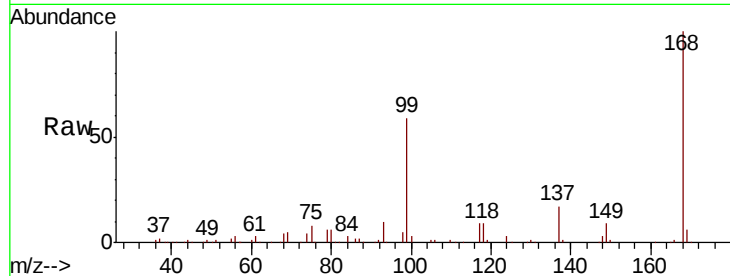
18107-NYCT-AVE-Z-TP-1

Tot Ion:168 Resp: 184123

Ion Ratio Lower Upper

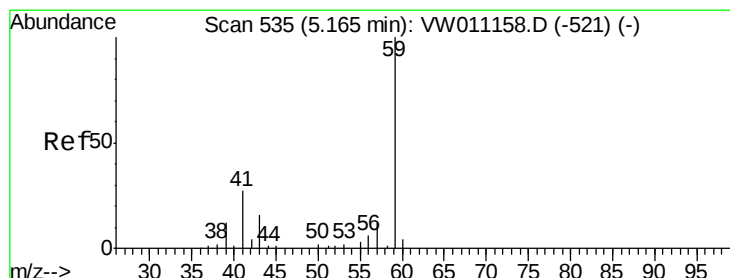
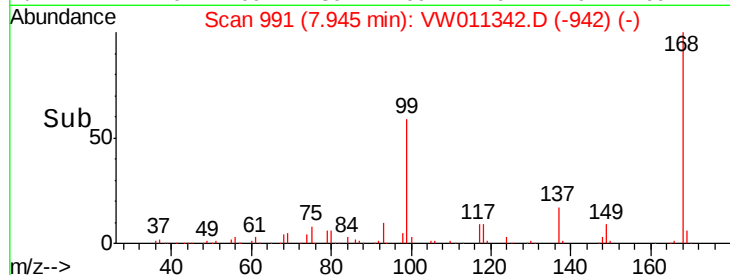
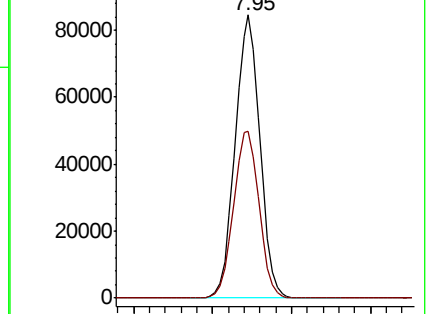
168 100

99 58.9 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 10.421 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011342.D

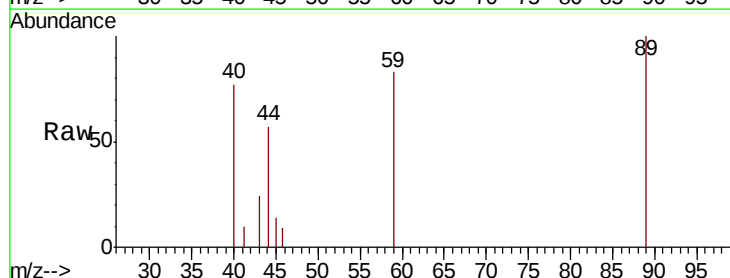
Acq: 18 Jul 2019 18:55

Tgt Ion: 59 Resp: 1785

Ion Ratio Lower Upper

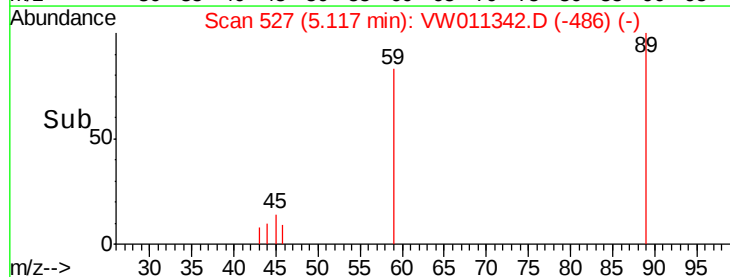
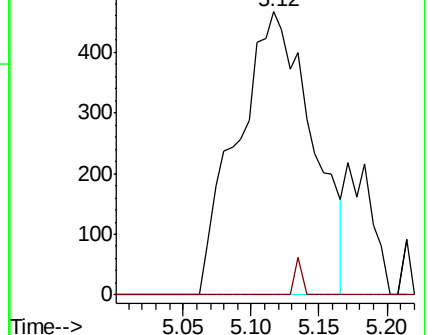
59 100

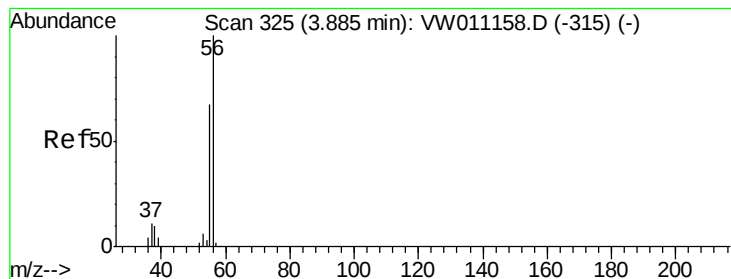
57 1.3 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 2.177 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

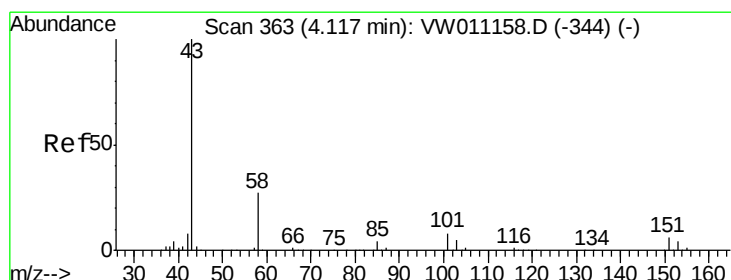
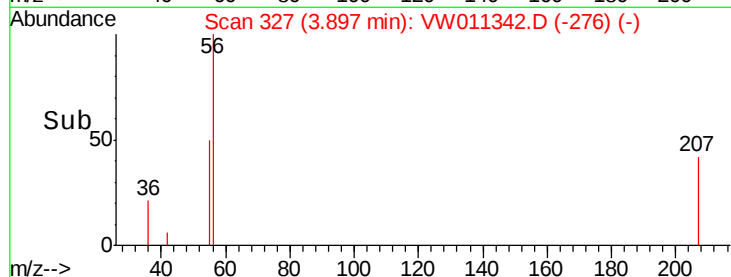
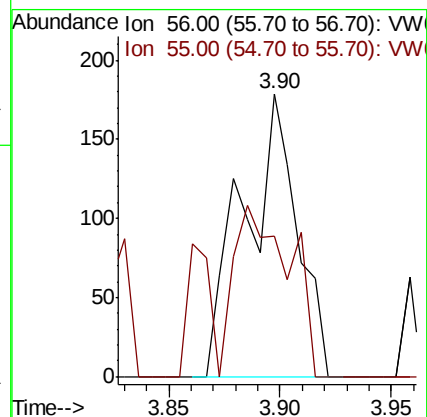
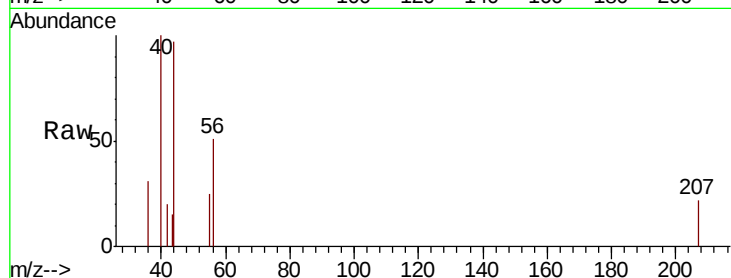
18107-NYCT-AVE-Z-TP-1

Tot Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 63.3 56.4 84.6



#16

Acetone

Concen: 14.673 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW011342.D

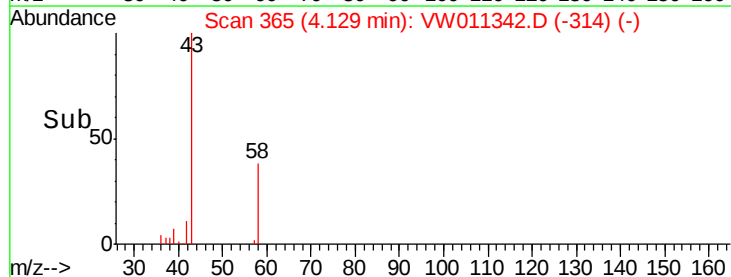
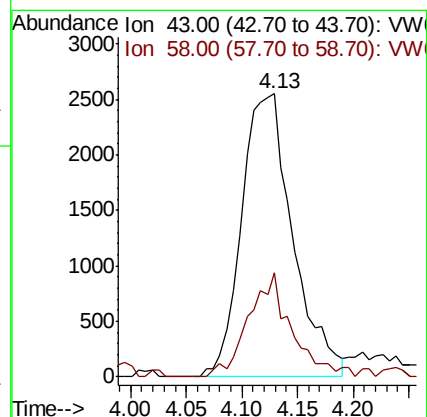
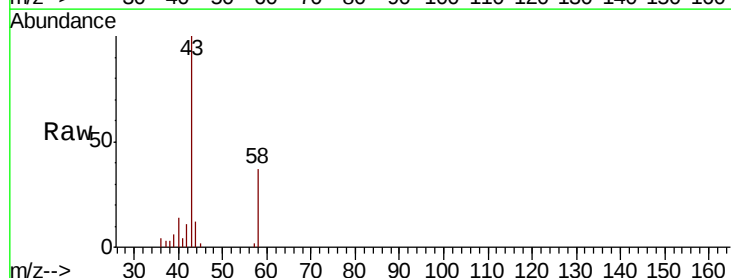
Acq: 18 Jul 2019 18:55

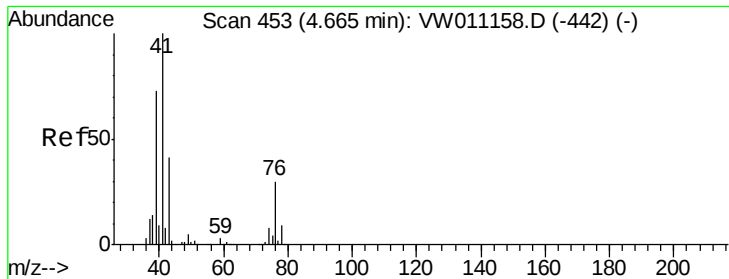
Tgt Ion: 43 Resp: 8168

Ion Ratio Lower Upper

43 100

58 36.7 21.8 32.6#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

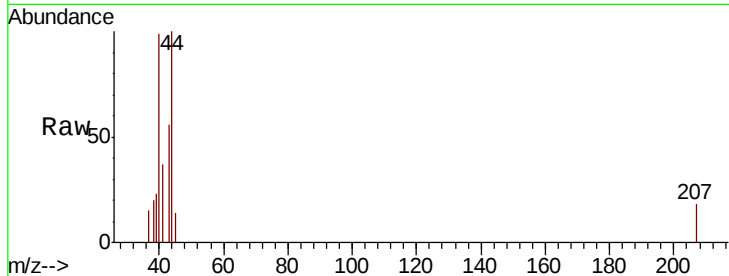
18107-NYCT-AVE-Z-TP-1

Tot Ion: 43 Resp: 222

Ion Ratio Lower Upper

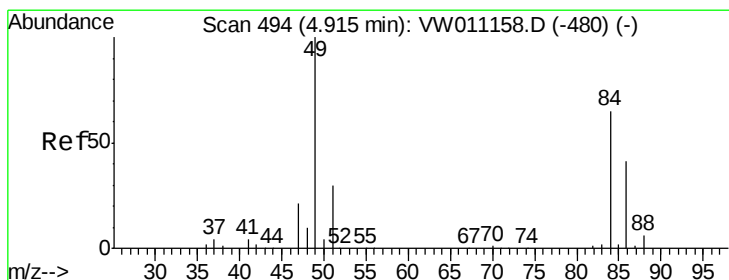
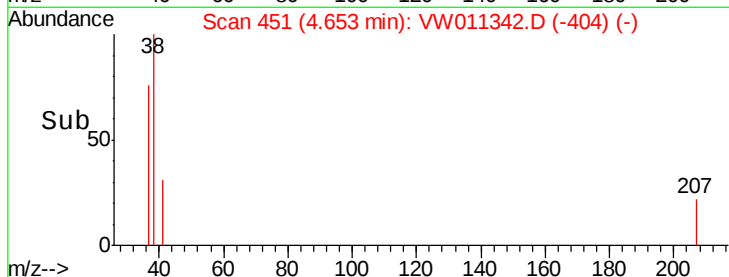
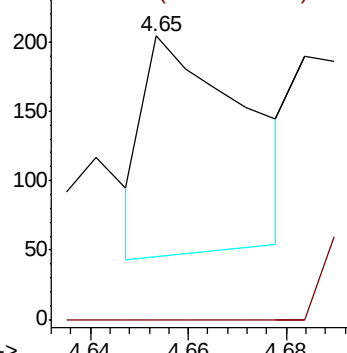
43 100

74 0.0 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#20

Methylene Chloride

Concen: 2.604 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Tgt Ion: 84 Resp: 5719

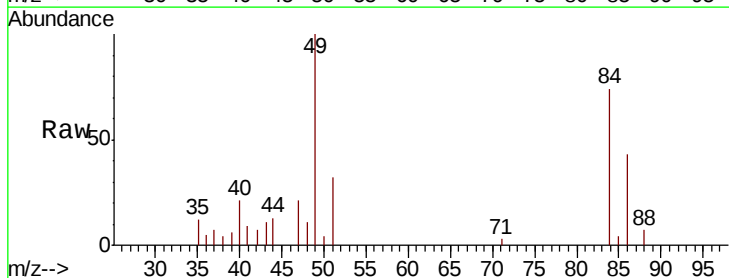
Ion Ratio Lower Upper

84 100

49 135.6 123.8 185.6

51 43.5 37.4 56.2

86 57.8 51.1 76.7

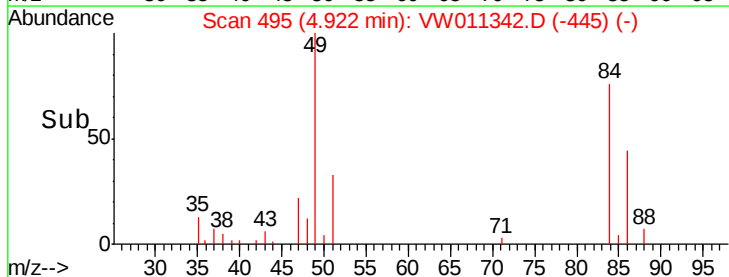
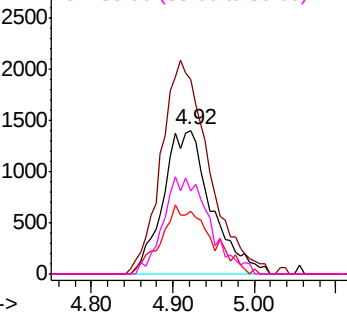


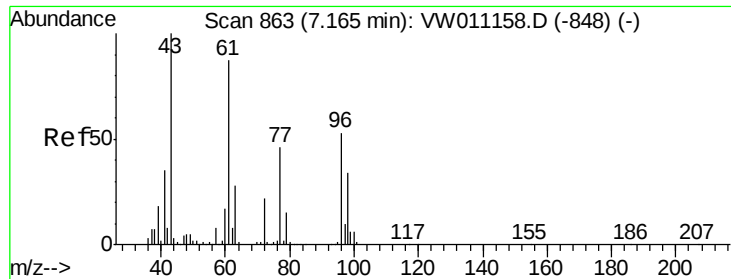
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 2.165 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

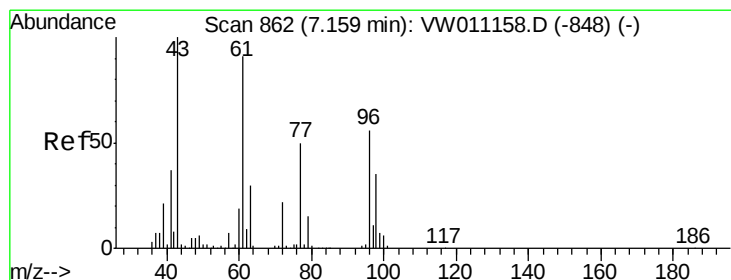
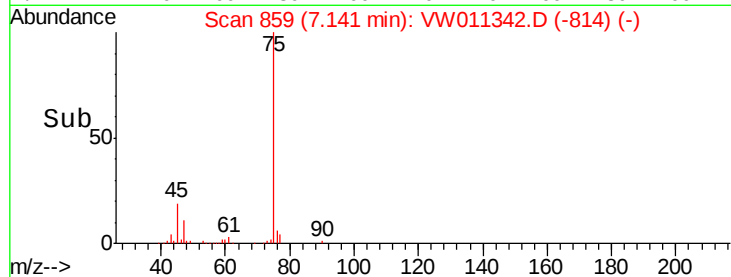
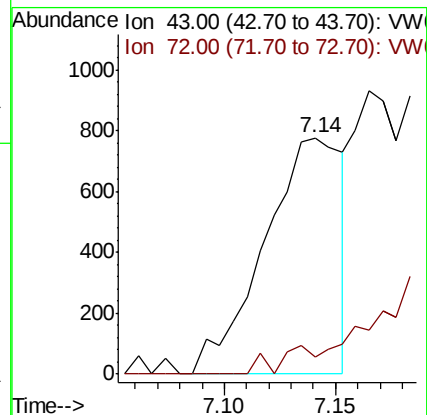
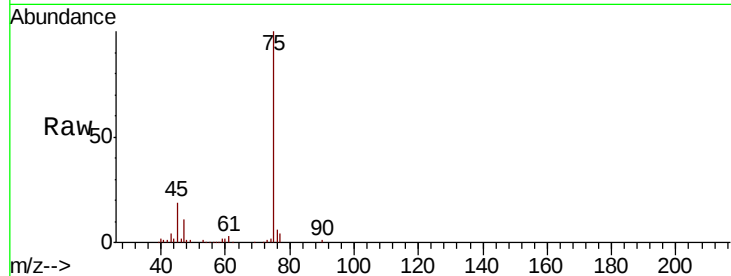
18107-NYCT-AVE-Z-TP-1

Tot Ion: 43 Resp: 1892

Ion Ratio Lower Upper

43 100

72 7.2 17.6 26.4#



#26

2,2-Dichloropropane

Concen: 1.029 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.02 min

Lab File: VW011342.D

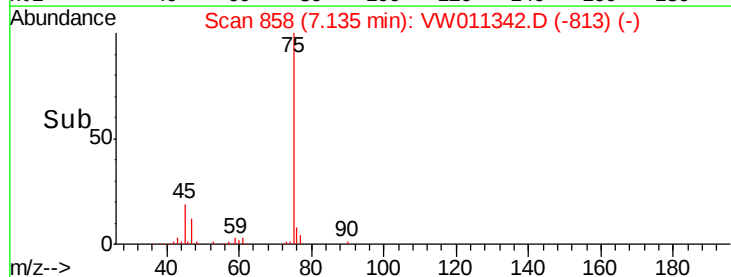
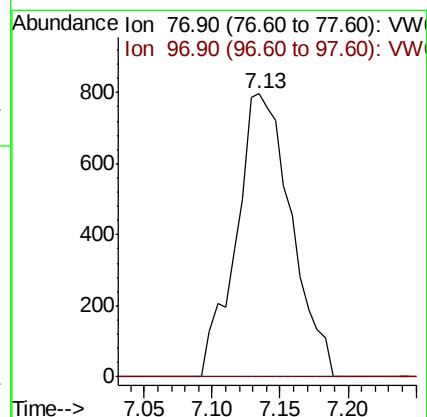
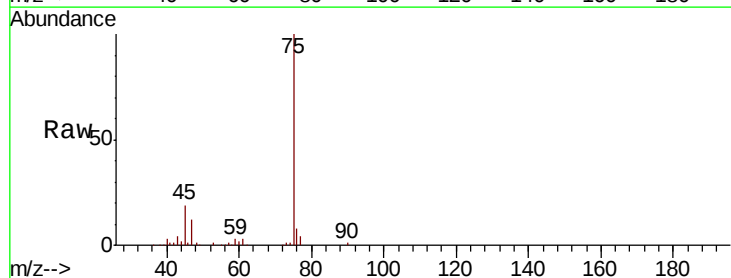
Acq: 18 Jul 2019 18:55

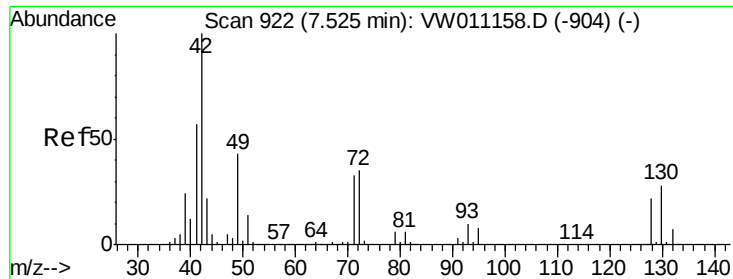
Tgt Ion: 77 Resp: 2253

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#





#29

Tetrahydrofuran

Concen: 1.468 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

18107-NYCT-AVE-Z-TP-1

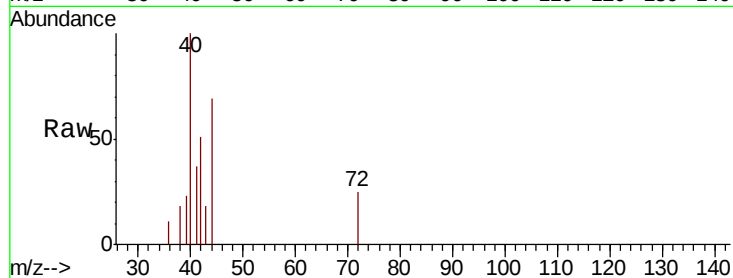
Tot Ion: 42 Resp: 841

Ion Ratio Lower Upper

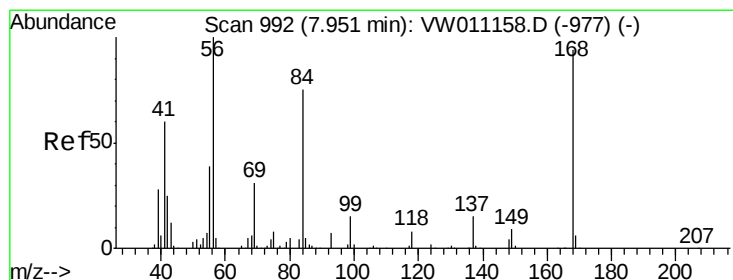
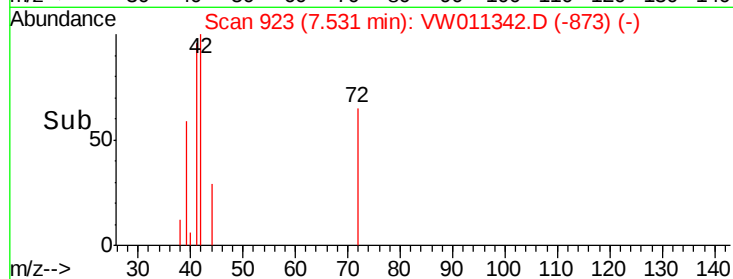
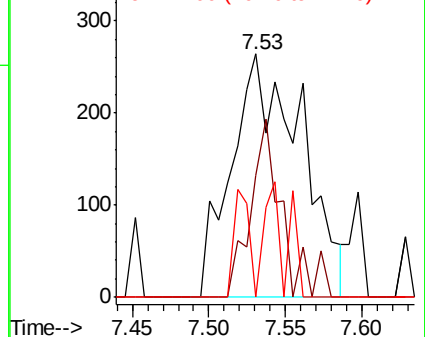
42 100

72 32.8 27.4 41.2

71 14.7 25.9 38.9#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.106 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

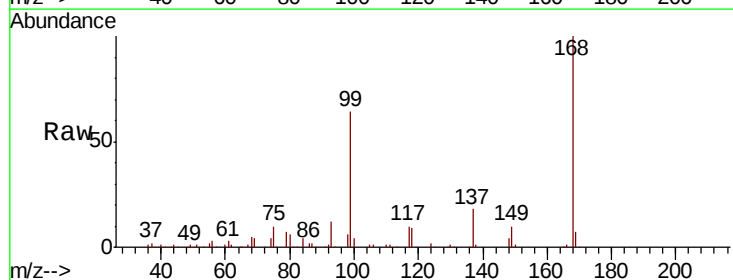
Tgt Ion: 56 Resp: 4955

Ion Ratio Lower Upper

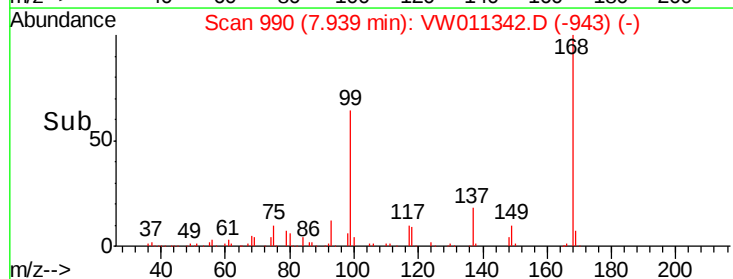
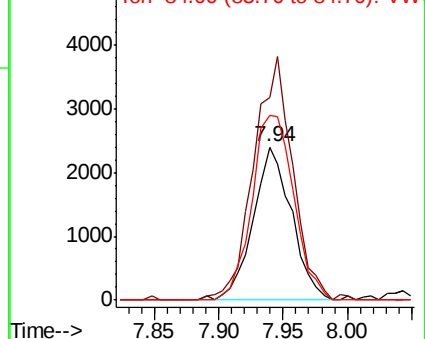
56 100

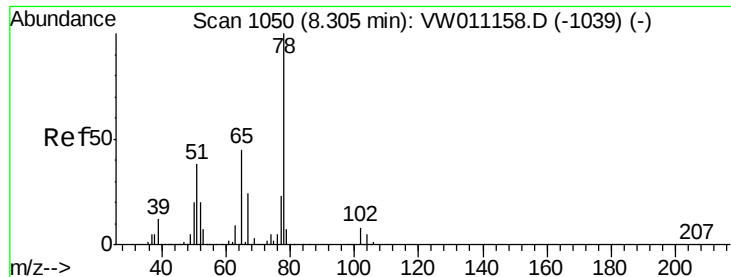
69 132.0 24.6 36.8#

84 120.9 60.1 90.1#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 58.867 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

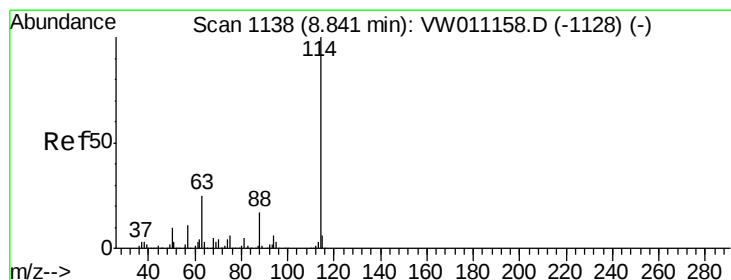
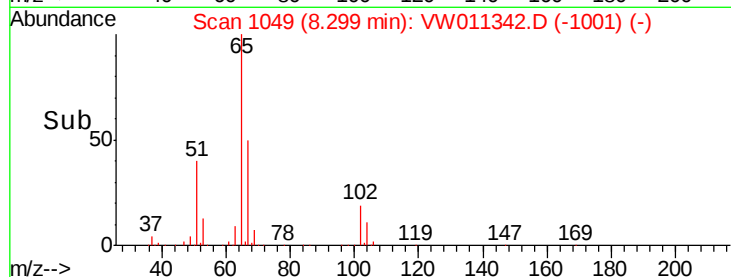
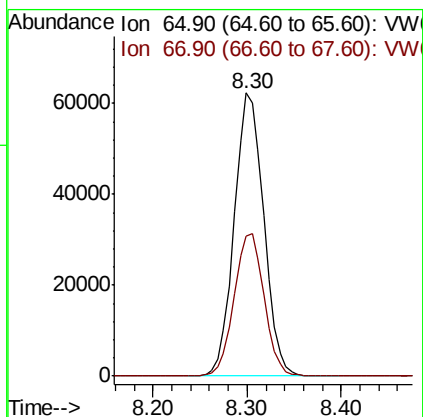
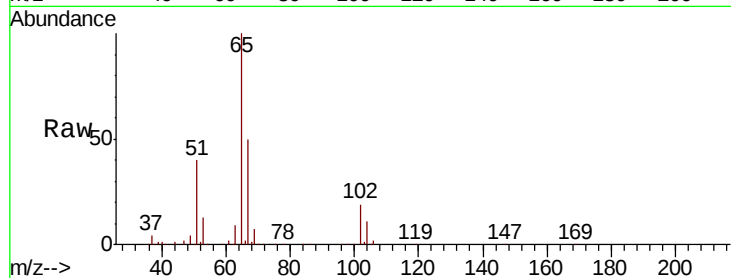
18107-NYCT-AVE-Z-TP-1

Tot Ion: 65 Resp: 136192

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

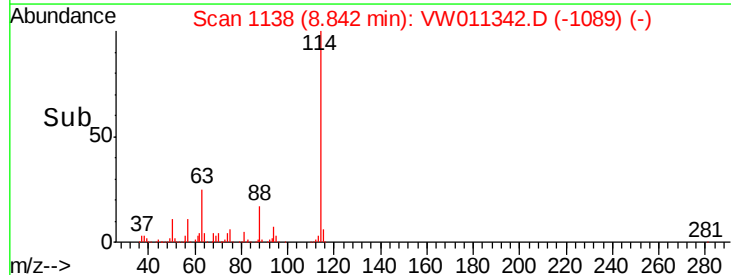
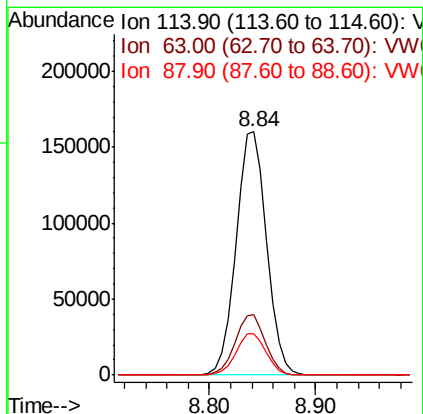
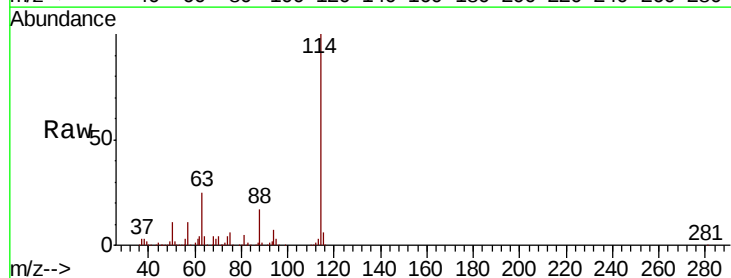
Tgt Ion: 114 Resp: 321678

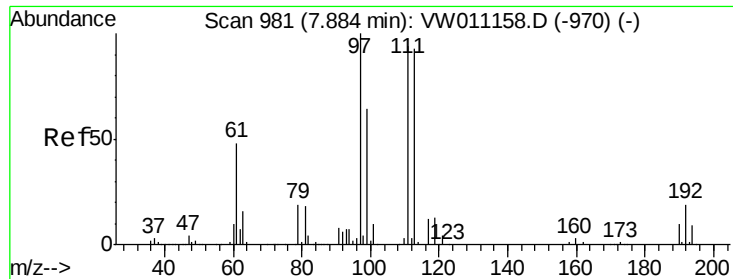
Ion Ratio Lower Upper

114 100

63 24.9 0.0 50.8

88 17.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.358 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

18107-NYCT-AVE-Z-TP-1

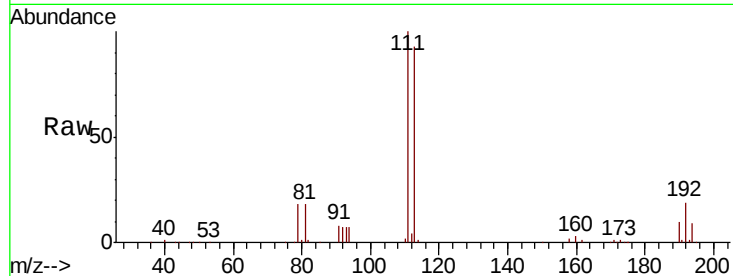
Tot Ion:113 Resp: 100389

Ion Ratio Lower Upper

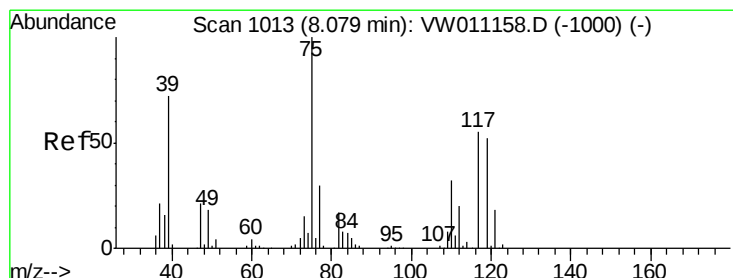
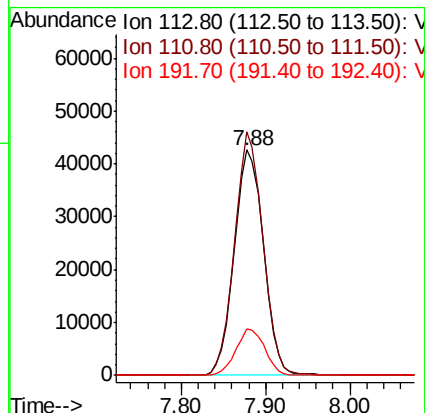
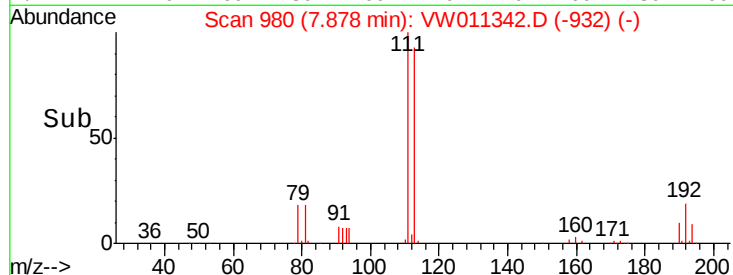
113 100

111 104.2 82.4 123.6

192 20.2 15.8 23.8



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: 4.861 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

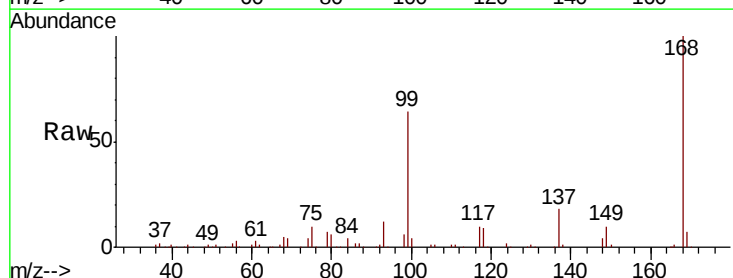
Tgt Ion: 75 Resp: 16653

Ion Ratio Lower Upper

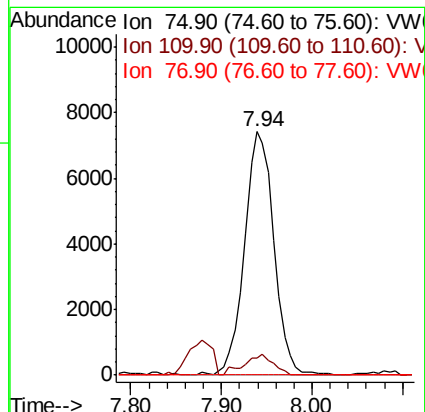
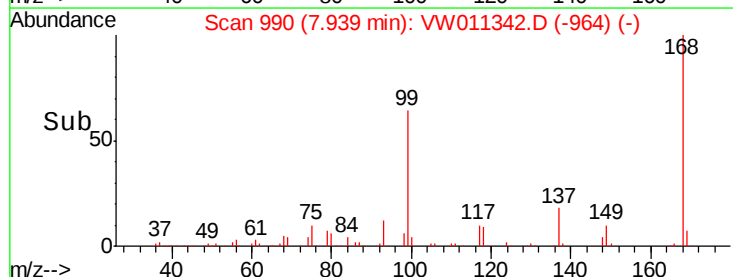
75 100

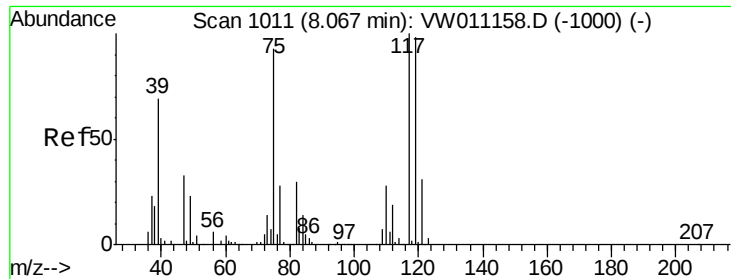
110 8.4 15.9 47.6#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW

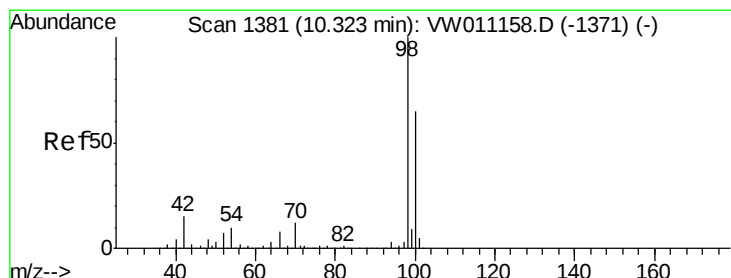
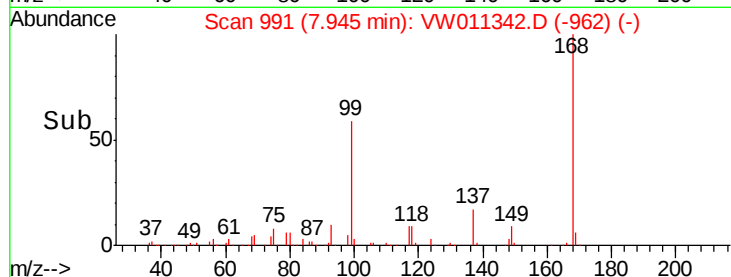
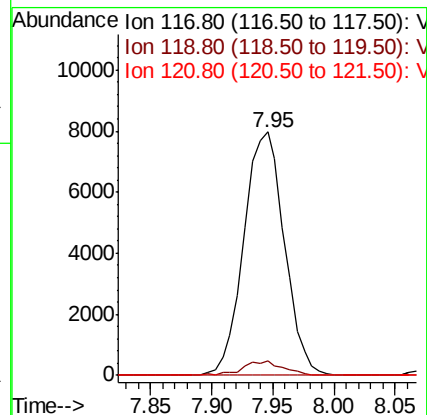
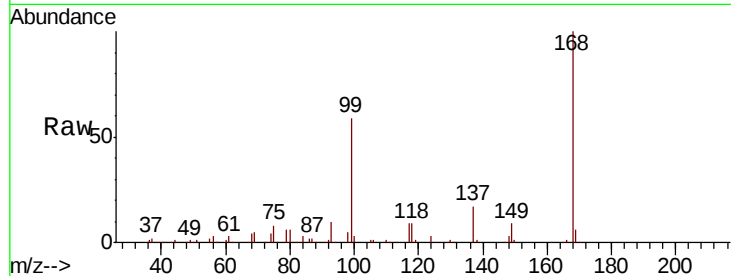




#38
Carbon Tetrachloride
Concen: 6.313 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011342.D
Acq: 18 Jul 2019 18:55

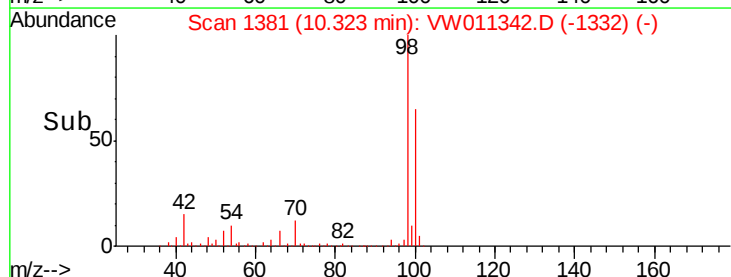
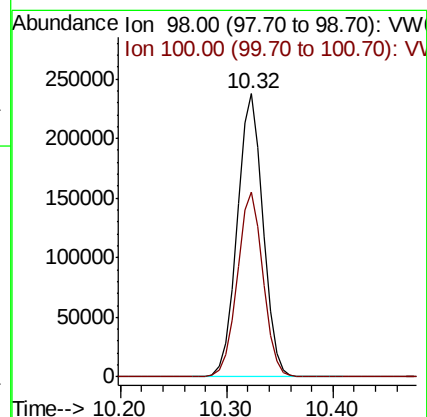
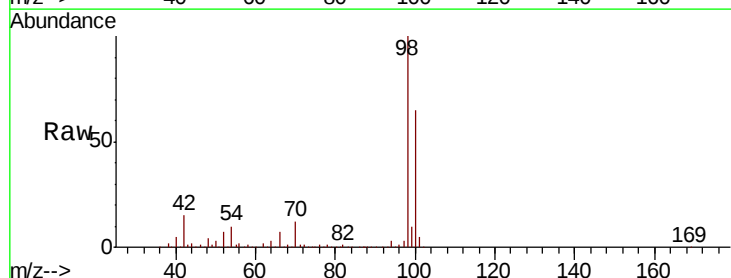
Instrument :
MSVOA_W
ClientSampleId :
18107-NYCT-AVE-Z-TP-1

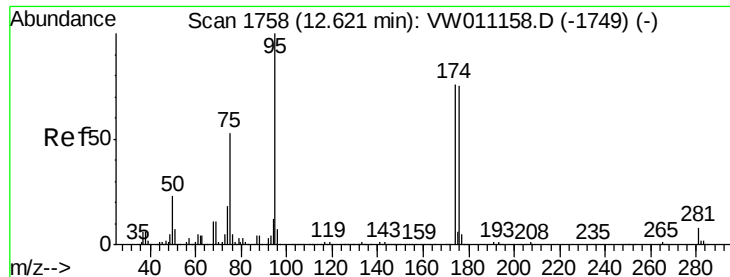
Tot Ion:117 Resp: 18333
Ion Ratio Lower Upper
117 100
119 5.8 78.1 117.1#
121 0.0 25.1 37.7#



#50
Toluene-d8
Concen: 52.025 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011342.D
Acq: 18 Jul 2019 18:55

Tgt Ion: 98 Resp: 403204
Ion Ratio Lower Upper
98 100
100 65.1 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 47.997 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

18107-NYCT-AVE-Z-TP-1

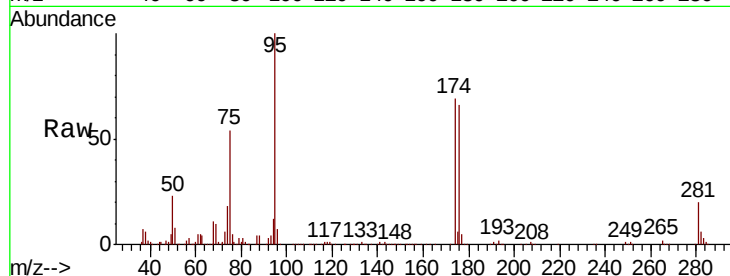
Tot Ion: 95 Resp: 136345

Ion Ratio Lower Upper

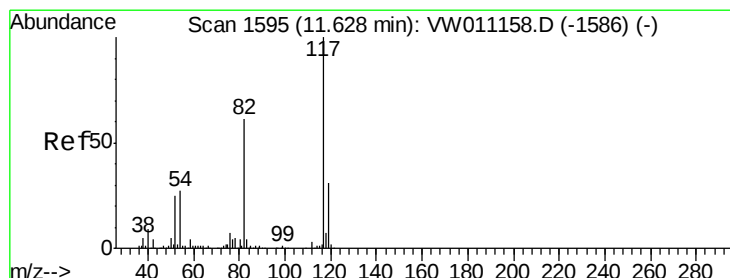
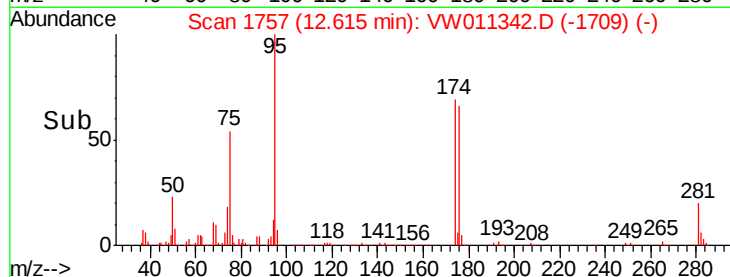
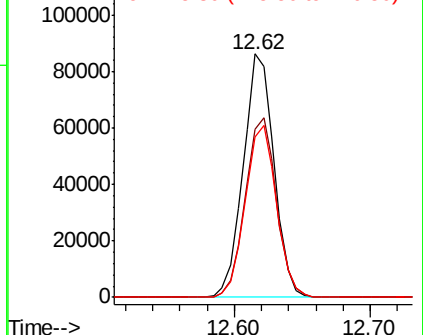
95 100

174 75.0 0.0 147.6

176 72.2 0.0 144.6



Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

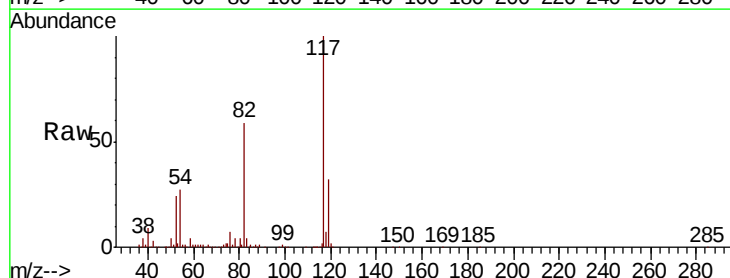
Tgt Ion: 117 Resp: 279664

Ion Ratio Lower Upper

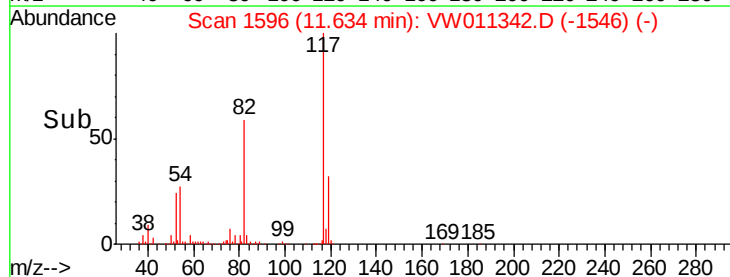
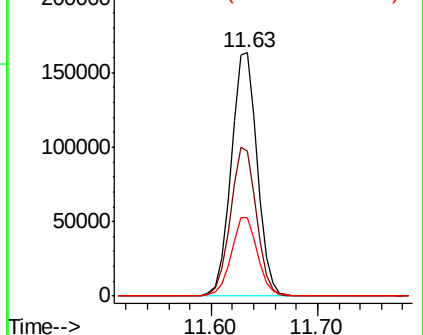
117 100

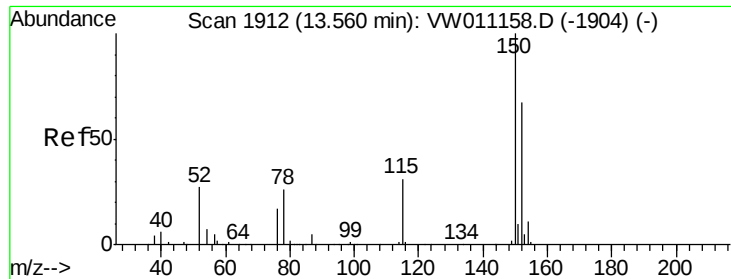
82 59.4 48.9 73.3

119 31.8 25.0 37.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

18107-NYCT-AVE-Z-TP-1

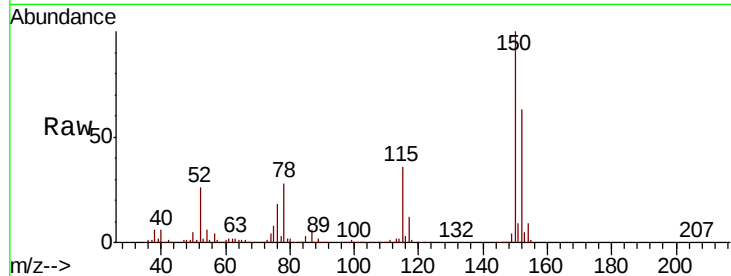
Tot Ion:152 Resp: 119806

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

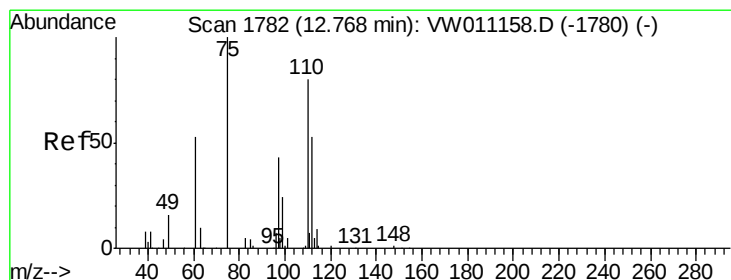
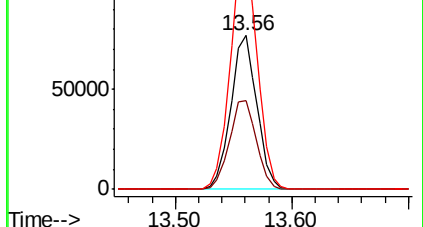
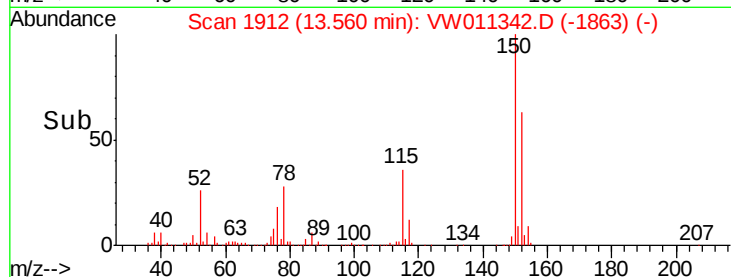
150 159.3 0.0 346.0



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: 52.983 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011342.D

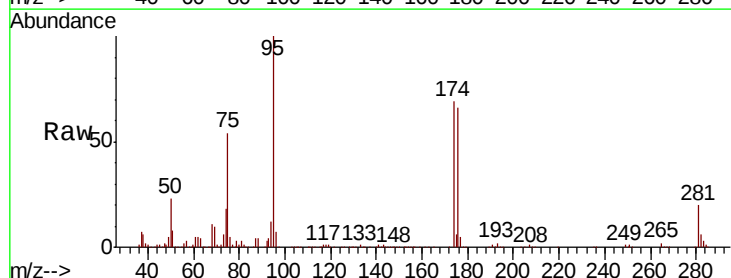
Acq: 18 Jul 2019 18:55

Tgt Ion: 75 Resp: 73356

Ion Ratio Lower Upper

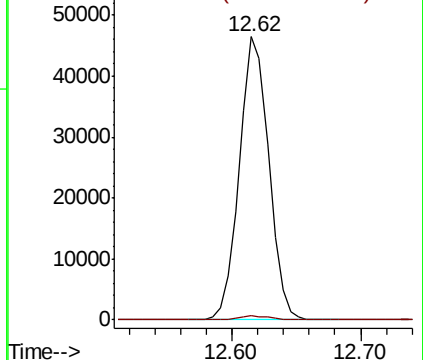
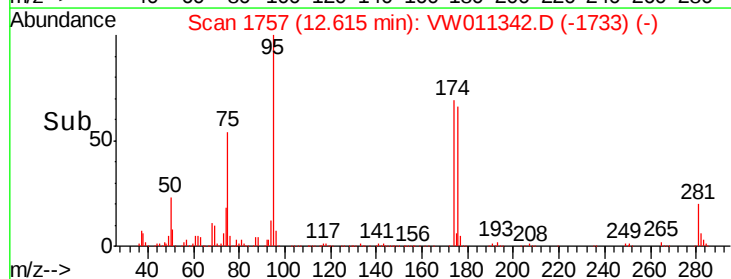
75 100

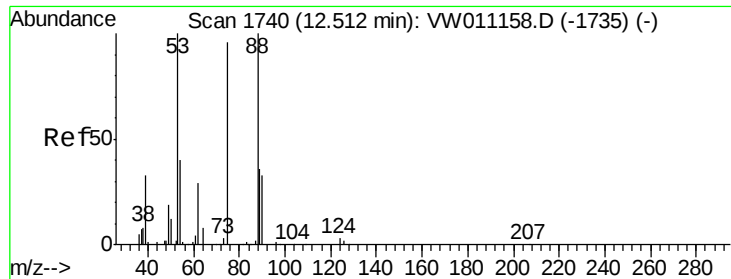
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 119.838 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011342.D

Acq: 18 Jul 2019 18:55

Instrument :

MSVOA_W

ClientSampleId :

18107-NYCT-AVE-Z-TP-1

Tot Ion: 75 Resp: 73356

Ion Ratio Lower Upper

75 100

53 0.2 89.8 134.6#

89 0.1 34.3 51.5#

