

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW061518\
 Data File : VW003282.D
 Acq On : 15 Jun 2018 03:51
 Operator : VA/AP
 Sample : J3458-04
 Misc : 6.30G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EPE-105-5(45-47)

Quant Time: Jun 15 06:50:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 08:20:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	66276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	109845	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	76227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	15789	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	42553	59.28	ug/l	0.00
Spiked Amount			Recovery	=	118.56%	
35) Dibromofluoromethane	7.89	113	37648	55.16	ug/l	0.00
Spiked Amount			Recovery	=	110.32%	
50) Toluene-d8	10.33	98	83687	30.92	ug/l	0.00
Spiked Amount			Recovery	=	61.84%	
62) 4-Bromofluorobenzene	12.63	95	17526	18.30	ug/l	0.00
Spiked Amount			Recovery	=	36.60%	

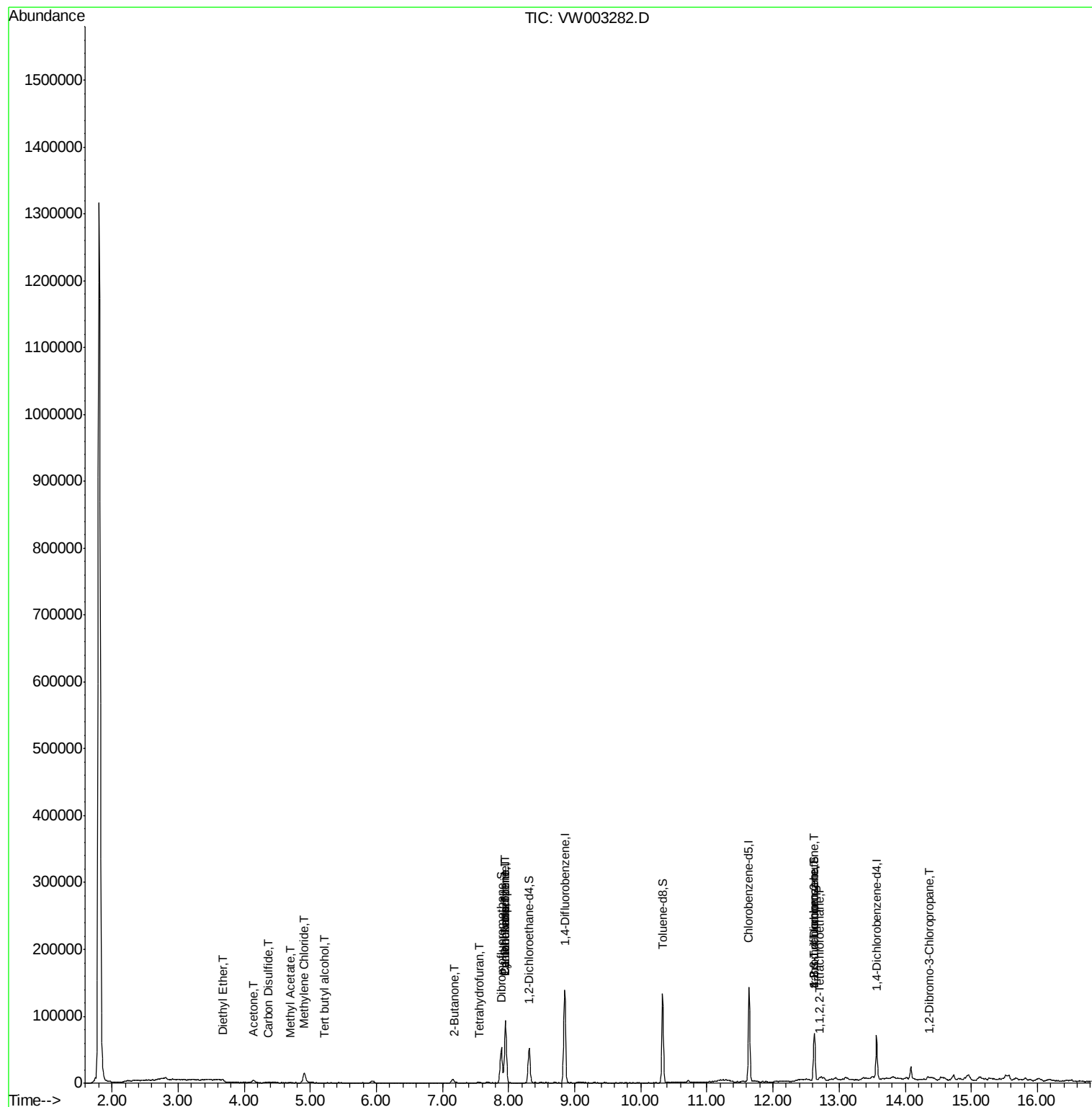
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	337	1.038	ug/l	88
11) Tert butyl alcohol	5.21	59	68	1.766	ug/l #	84
16) Acetone	4.14	43	6396	42.482	ug/l #	78
17) Carbon Disulfide	4.37	76	1794	1.011	ug/l #	75
18) Methyl Acetate	4.70	43	471	1.319	ug/l #	52
20) Methylene Chloride	4.91	84	9874	12.700	ug/l	97
25) 2-Butanone	7.18	43	189	1.010	ug/l #	50
29) Tetrahydrofuran	7.54	42	256	2.237	ug/l #	58
31) Cyclohexane	7.95	56	1699	1.465	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	5544	5.226	ug/l #	53
38) Carbon Tetrachloride	7.95	117	6865	6.597	ug/l #	16
75) 1,1,2,2-Tetrachloroethane	12.69	83	602	3.240	ug/l #	6
76) 1,2,3-Trichloropropane	12.63	75	9389	69.560	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	9389	160.061	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.37	75	46	1.471	ug/l #	1

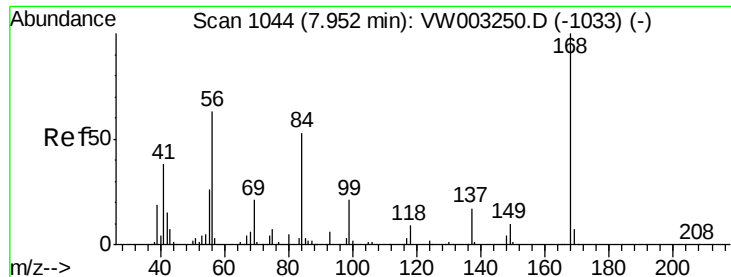
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

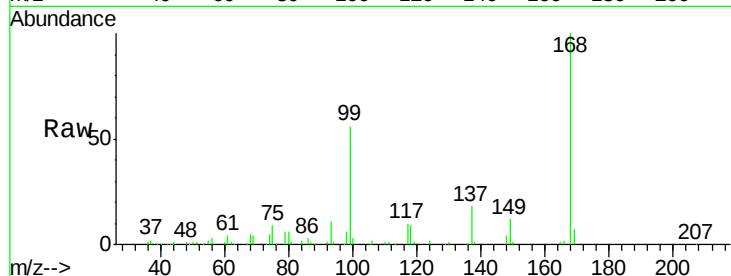
EPE-105-5(45-47)

Tgt Ion:168 Resp: 66276

Ion Ratio Lower Upper

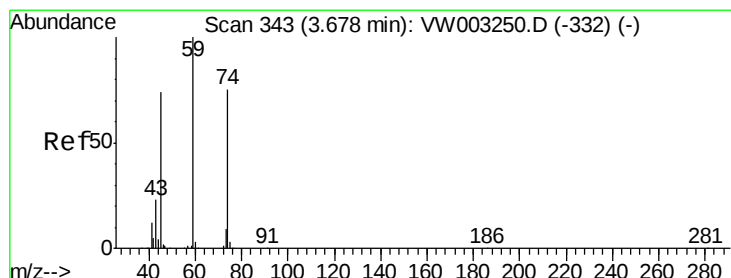
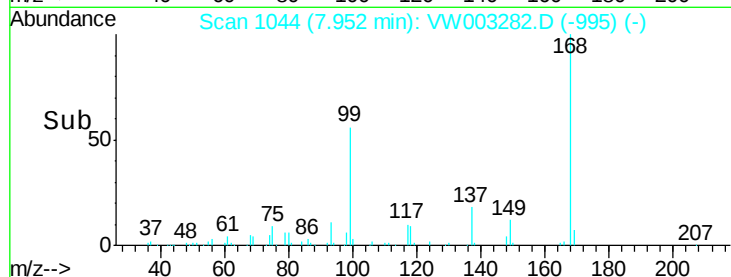
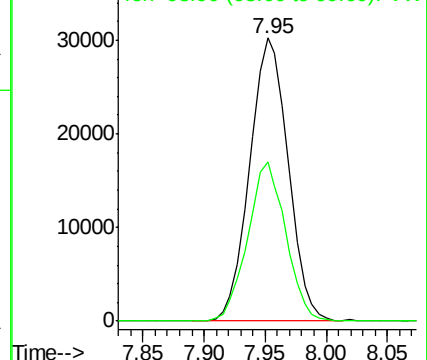
168 100

99 56.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.038 ug/l

RT: 3.68 min Scan# 343

Delta R.T. 0.00 min

Lab File: VW003282.D

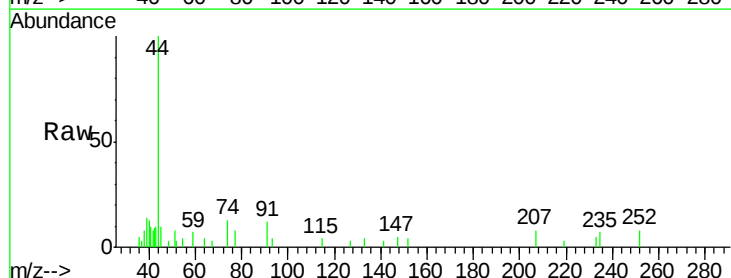
Acq: 15 Jun 2018 03:51

Tgt Ion: 74 Resp: 337

Ion Ratio Lower Upper

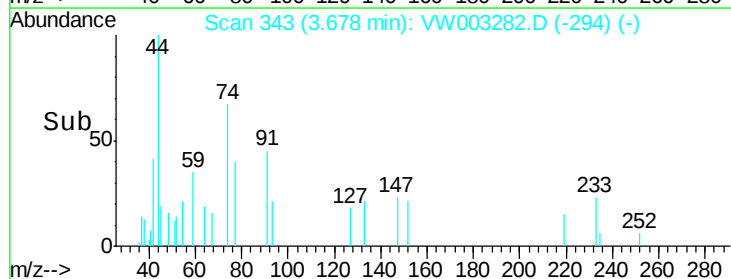
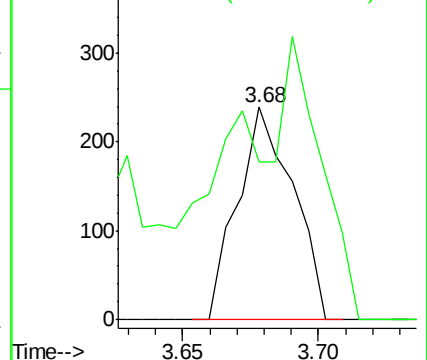
74 100

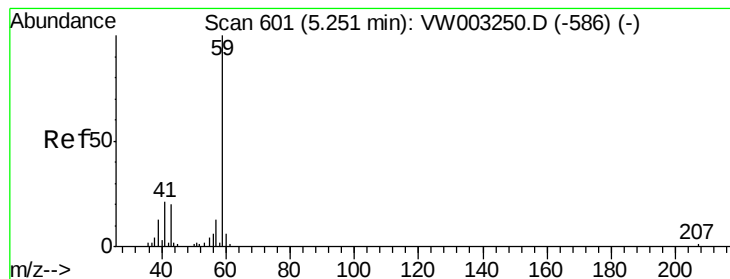
45 90.8 51.4 154.2



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 1.766 ug/l

RT: 5.21 min Scan# 594

Delta R.T. -0.04 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

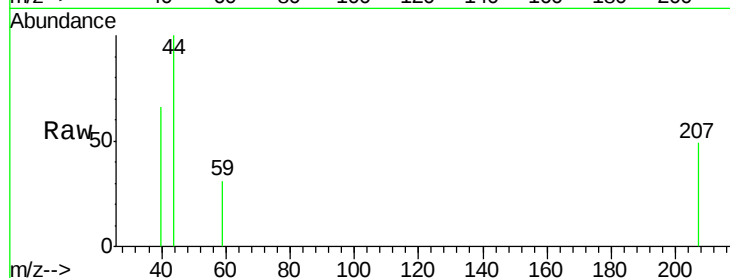
EPE-105-5(45-47)

Tgt Ion: 59 Resp: 68

Ion Ratio Lower Upper

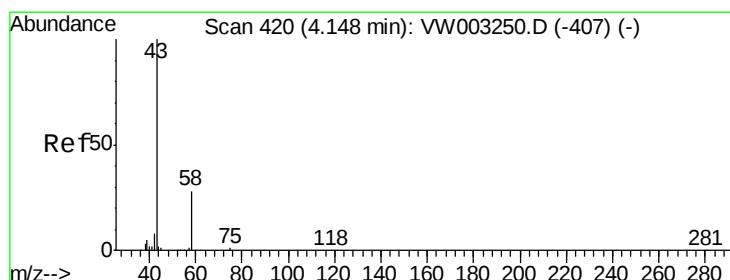
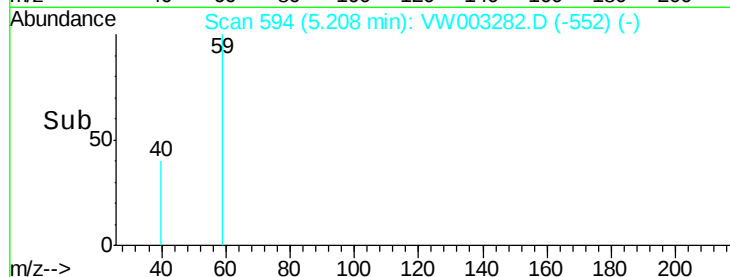
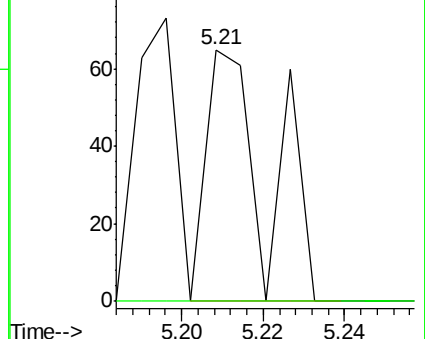
59 100

57 0.0 4.2 6.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 42.482 ug/l

RT: 4.14 min Scan# 418

Delta R.T. -0.01 min

Lab File: VW003282.D

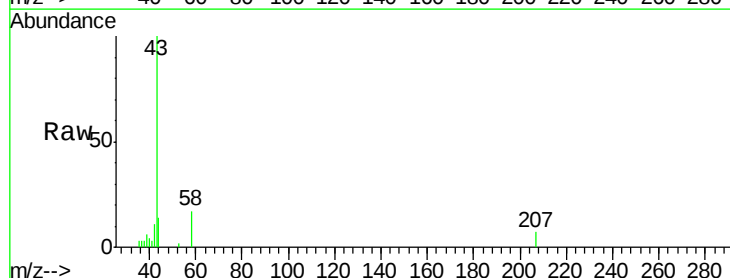
Acq: 15 Jun 2018 03:51

Tgt Ion: 43 Resp: 6396

Ion Ratio Lower Upper

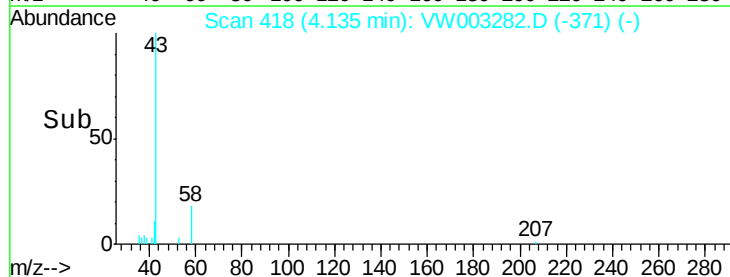
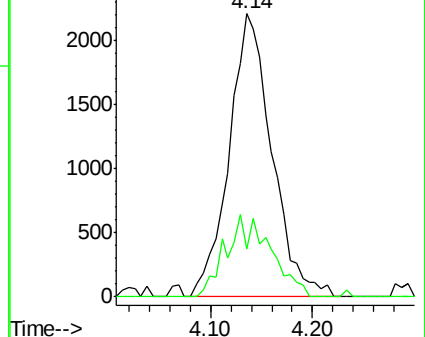
43 100

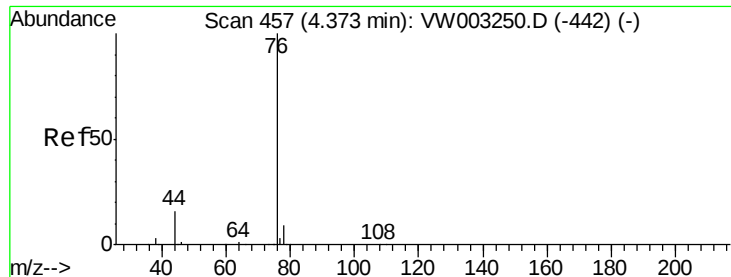
58 16.9 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 1.011 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

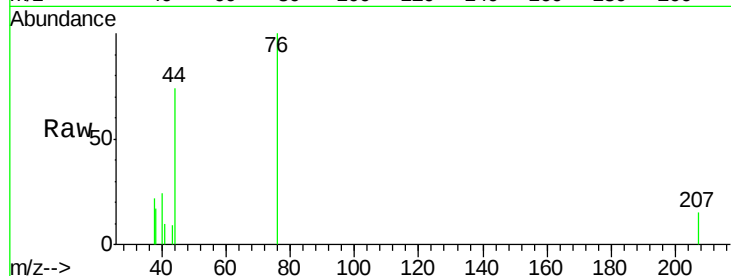
EPE-105-5(45-47)

Tgt Ion: 76 Resp: 1794

Ion Ratio Lower Upper

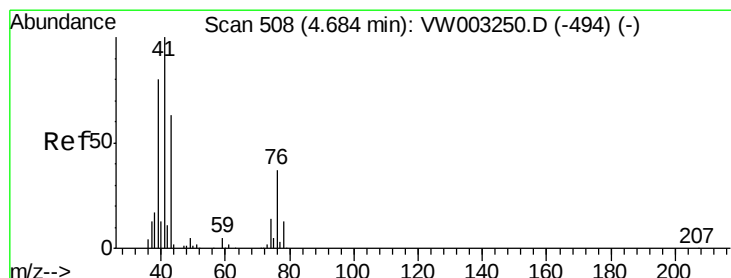
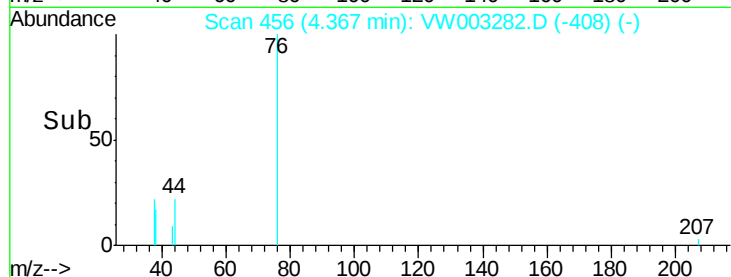
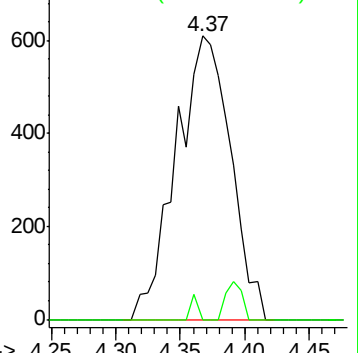
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 1.319 ug/l

RT: 4.70 min Scan# 511

Delta R.T. 0.02 min

Lab File: VW003282.D

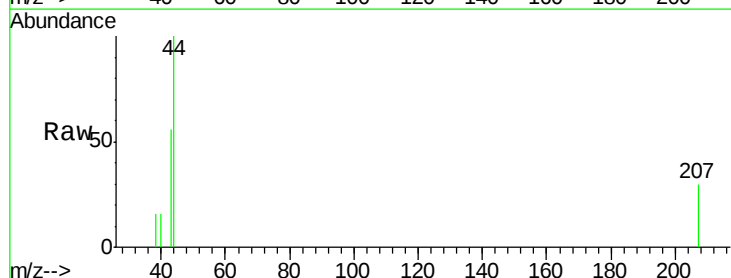
Acq: 15 Jun 2018 03:51

Tgt Ion: 43 Resp: 471

Ion Ratio Lower Upper

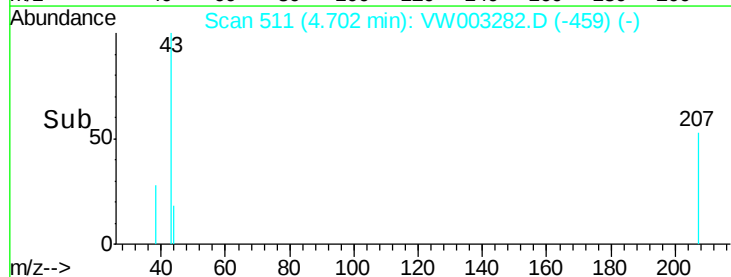
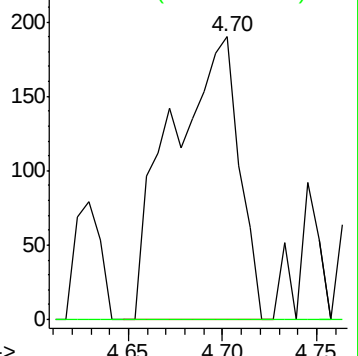
43 100

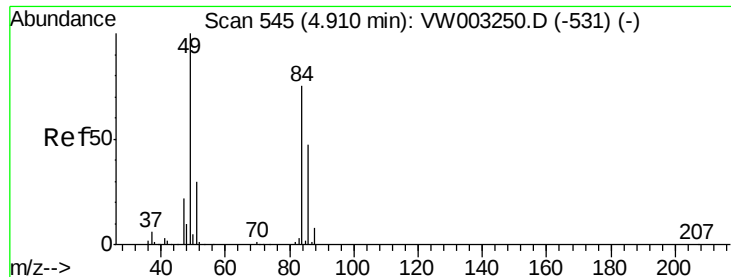
74 0.0 18.7 28.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

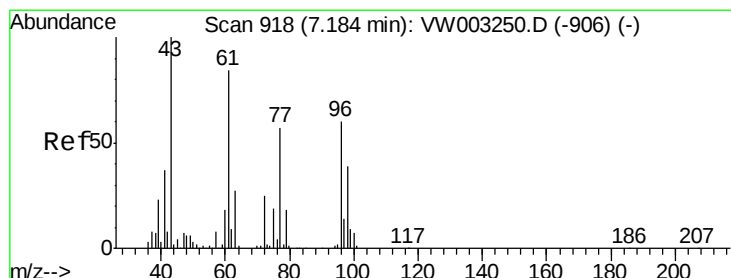
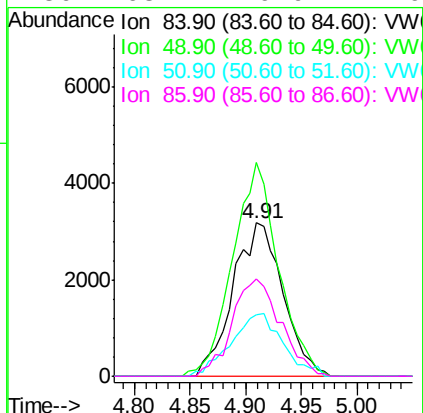
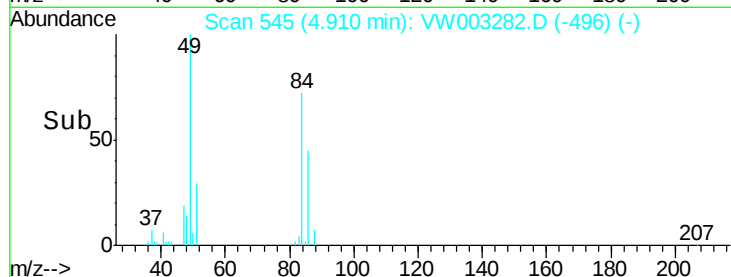
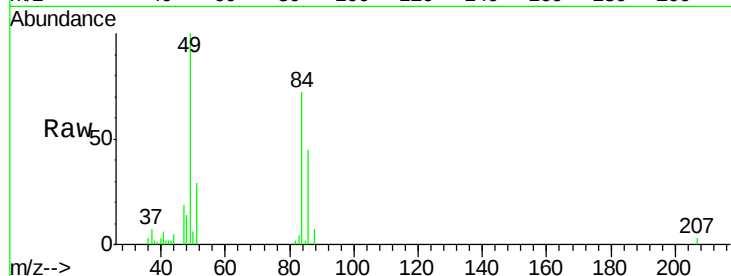




#20
Methylene Chloride
Concen: 12.700 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW003282.D
Acq: 15 Jun 2018 03:51

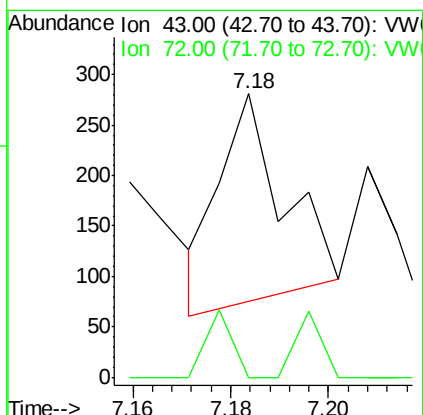
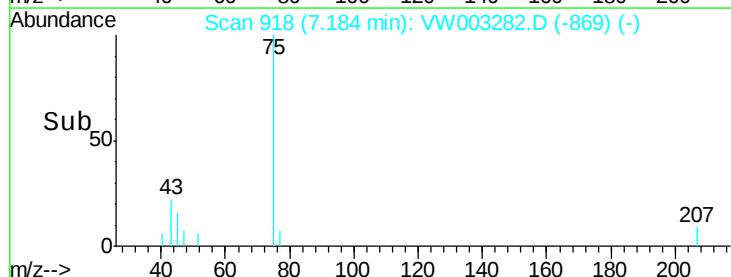
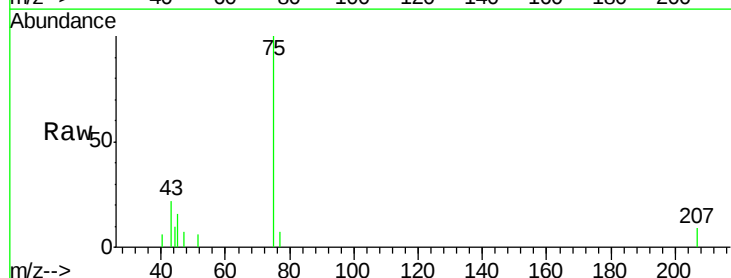
Instrument :
MSVOA_W
ClientSampled :
EPE-105-5(45-47)

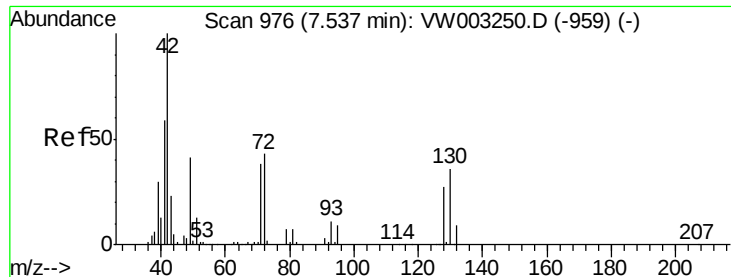
Tgt Ion: 84 Resp: 9874
Ion Ratio Lower Upper
84 100
49 139.4 106.3 159.5
51 40.0 32.0 48.0
86 63.2 49.9 74.9



#25
2-Butanone
Concen: 1.010 ug/l
RT: 7.18 min Scan# 918
Delta R.T. 0.00 min
Lab File: VW003282.D
Acq: 15 Jun 2018 03:51

Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
72 0.0 20.3 30.5#

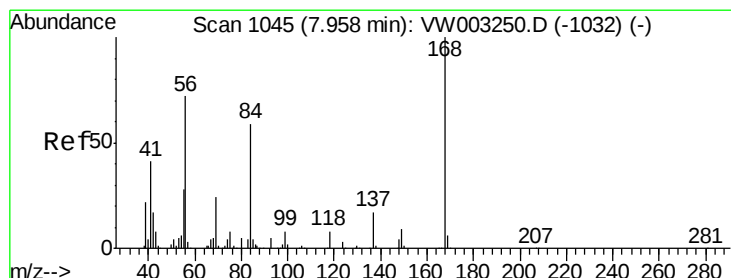
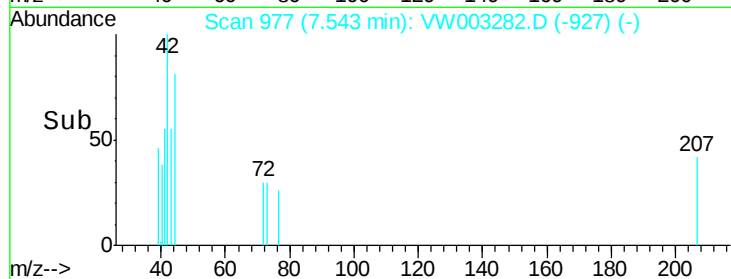
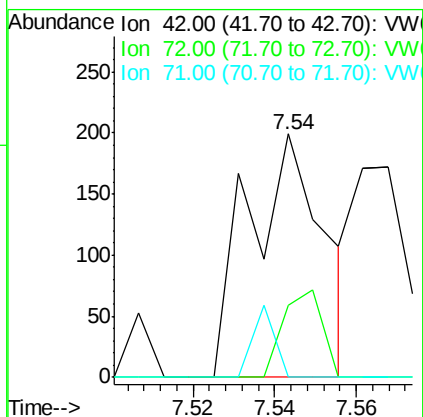
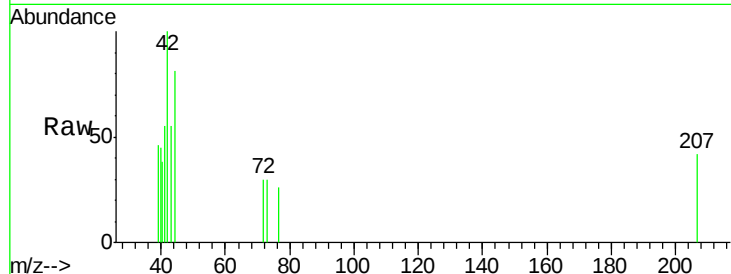




#29
Tetrahydrofuran
Concen: 2.237 ug/l
RT: 7.54 min Scan# 977
Delta R.T. 0.01 min
Lab File: VW003282.D
Acq: 15 Jun 2018 03:51

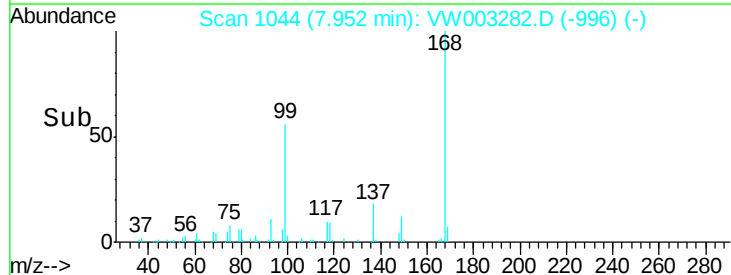
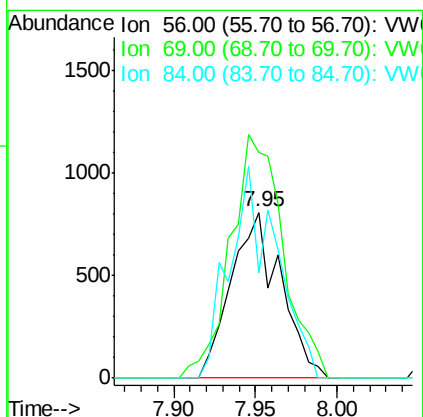
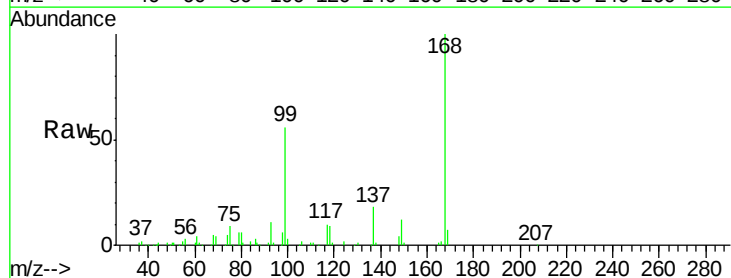
Instrument :
MSVOA_W
ClientSampleId :
EPE-105-5(45-47)

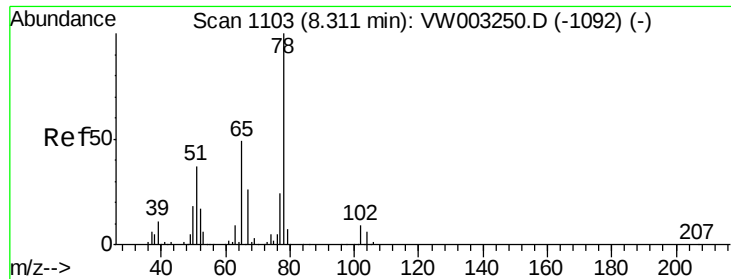
Tgt Ion: 42 Resp: 256
Ion Ratio Lower Upper
42 100
72 18.8 32.4 48.6#
71 8.6 31.2 46.8#



#31
Cyclohexane
Concen: 1.465 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VW003282.D
Acq: 15 Jun 2018 03:51

Tgt Ion: 56 Resp: 1699
Ion Ratio Lower Upper
56 100
69 136.4 26.3 39.5#
84 63.6 65.7 98.5#





#33

1,2-Dichloroethane-d4

Concen: 59.277 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

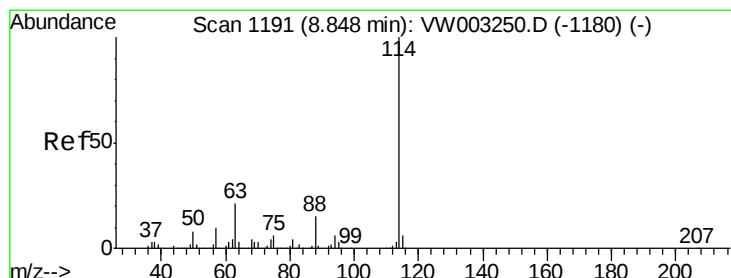
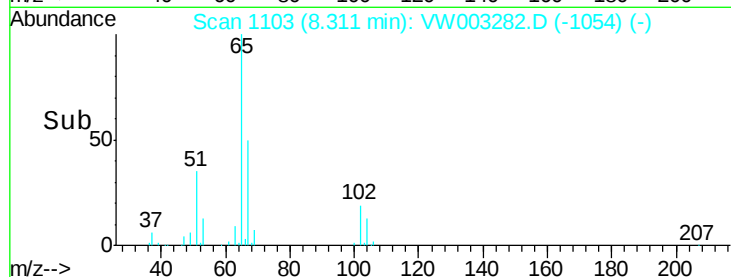
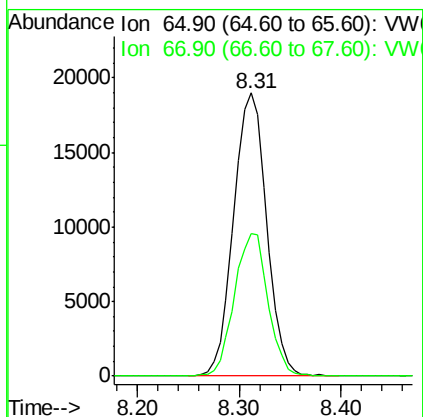
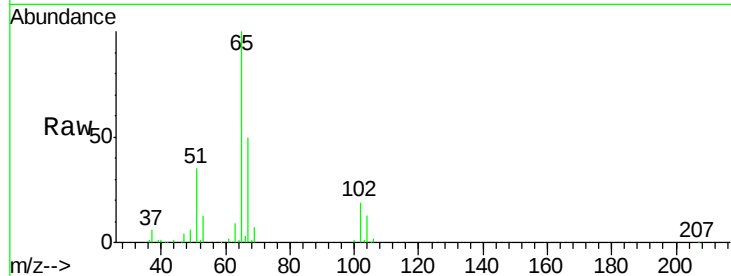
EPE-105-5(45-47)

Tgt Ion: 65 Resp: 42553

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

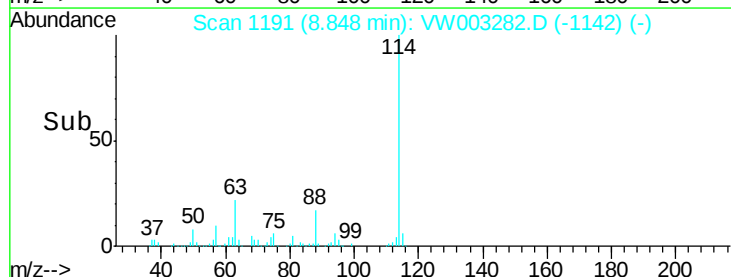
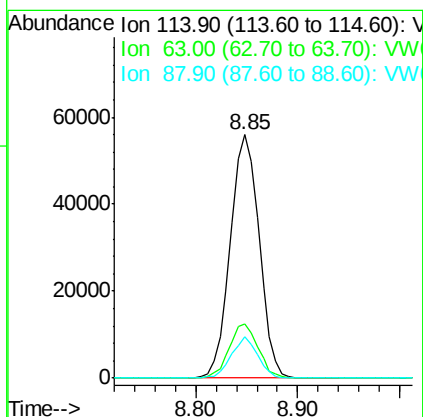
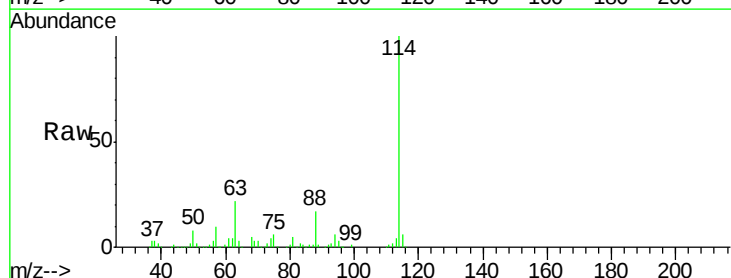
Tgt Ion: 114 Resp: 109845

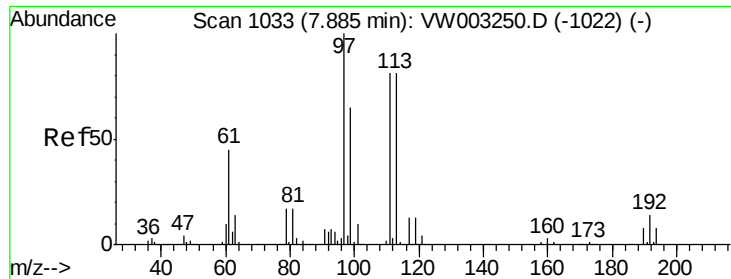
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.0

88 17.0 0.0 29.6





#35

Dibromofluoromethane

Concen: 55.158 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(45-47)

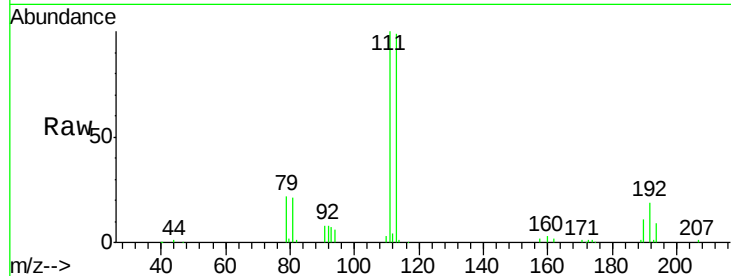
Tgt Ion:113 Resp: 37648

Ion Ratio Lower Upper

113 100

111 99.3 82.2 123.2

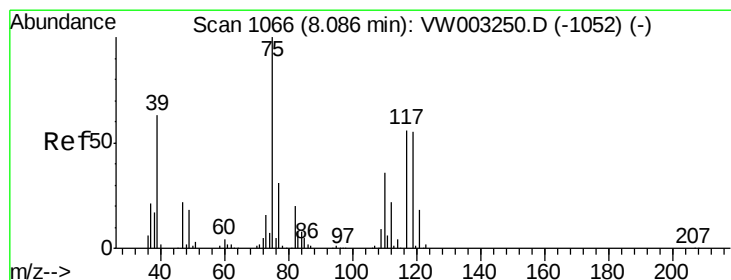
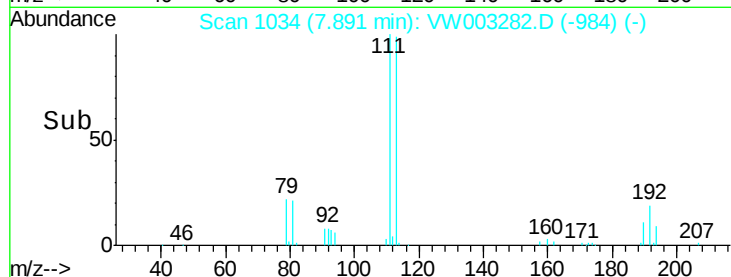
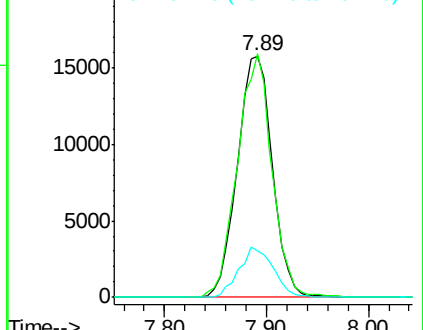
192 20.3 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.226 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

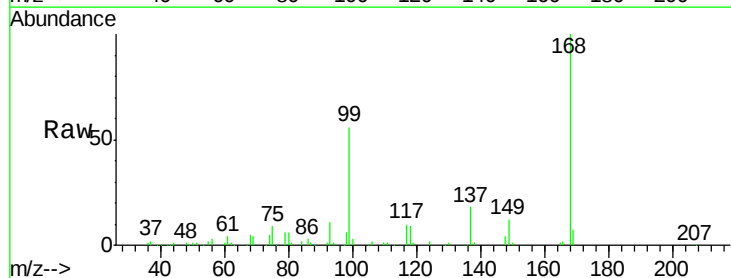
Tgt Ion: 75 Resp: 5544

Ion Ratio Lower Upper

75 100

110 11.9 17.1 51.3#

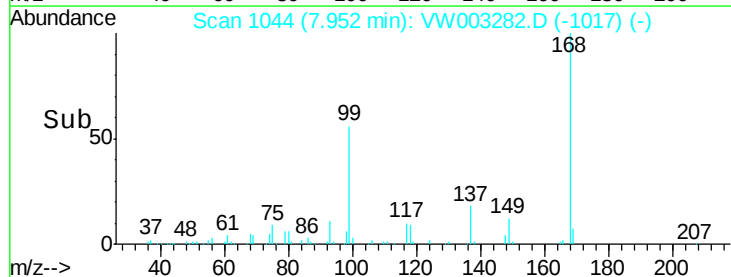
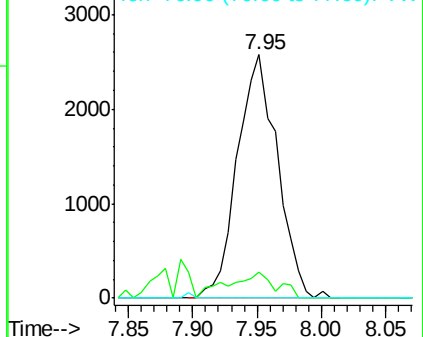
77 0.0 24.9 37.3#

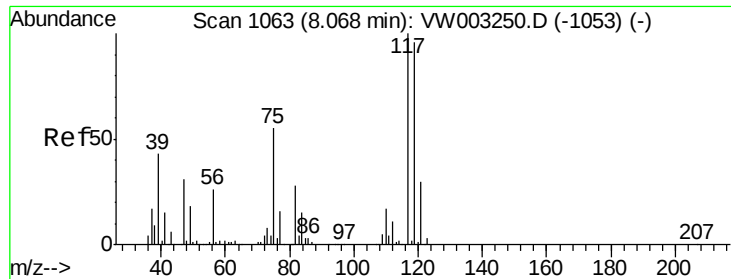


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.597 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(45-47)

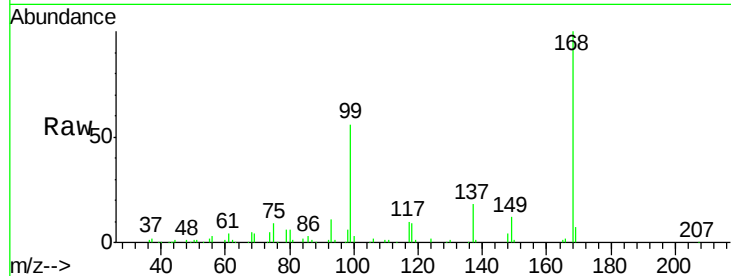
Tgt Ion:117 Resp: 6865

Ion Ratio Lower Upper

117 100

119 5.1 76.6 115.0#

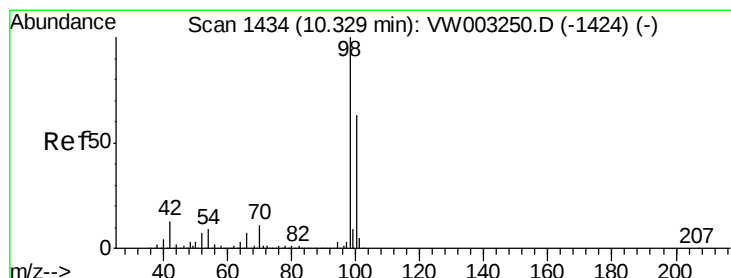
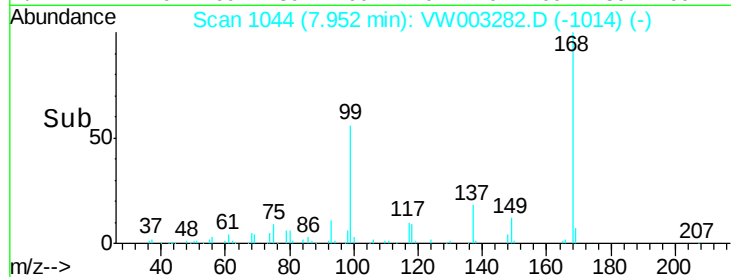
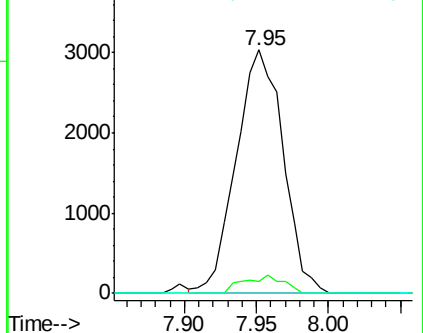
121 0.0 23.9 35.9#



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



#50

Toluene-d8

Concen: 30.921 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003282.D

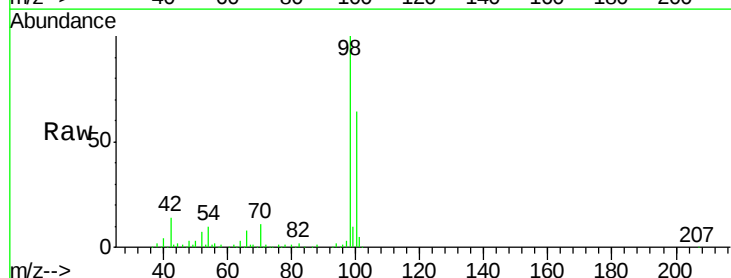
Acq: 15 Jun 2018 03:51

Tgt Ion: 98 Resp: 83687

Ion Ratio Lower Upper

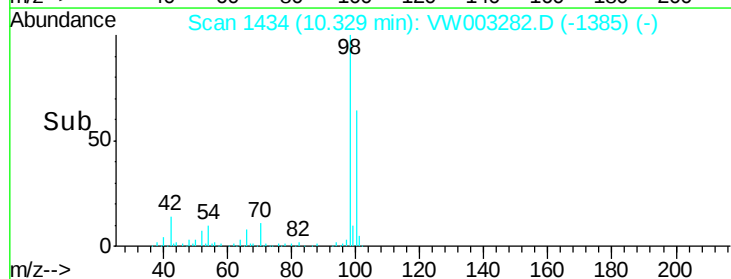
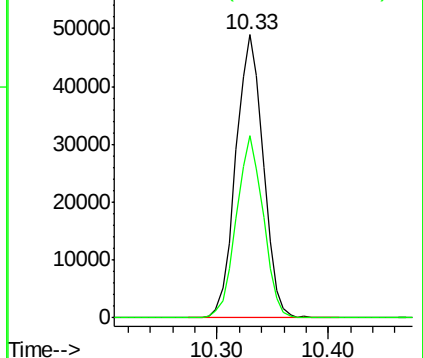
98 100

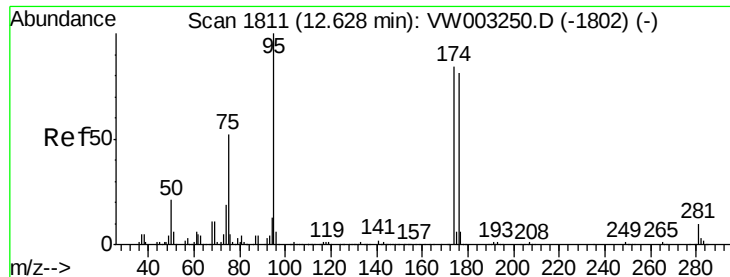
100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 18.298 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(45-47)

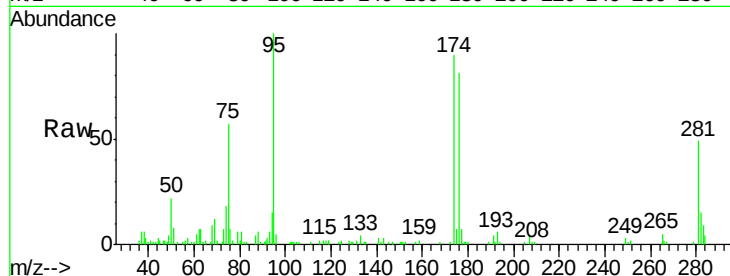
Tgt Ion: 95 Resp: 17526

Ion Ratio Lower Upper

95 100

174 82.7 0.0 166.4

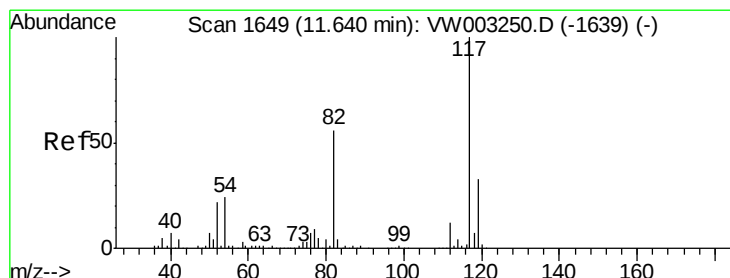
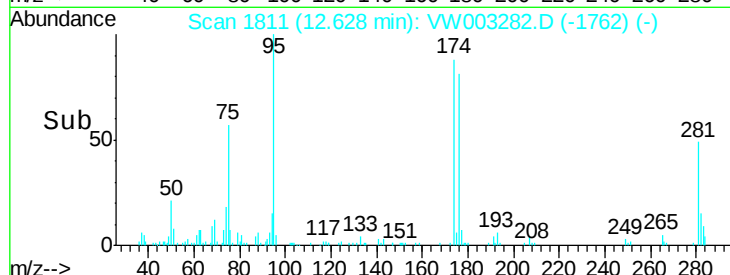
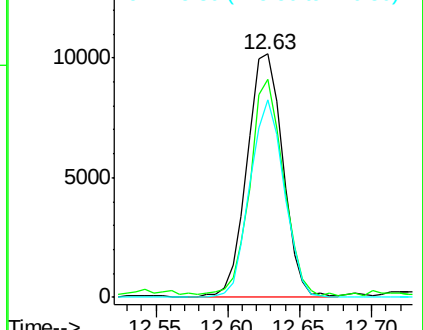
176 77.2 0.0 162.0



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# 1648

Delta R.T. -0.01 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

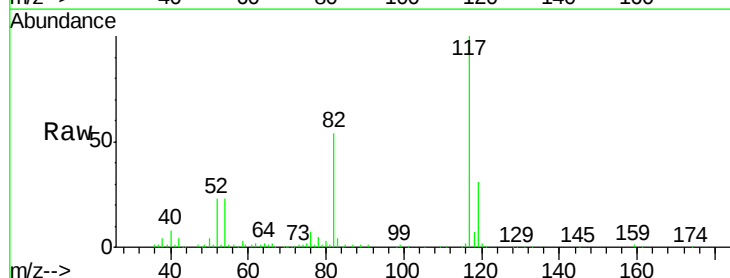
Tgt Ion: 117 Resp: 76227

Ion Ratio Lower Upper

117 100

82 54.4 44.6 67.0

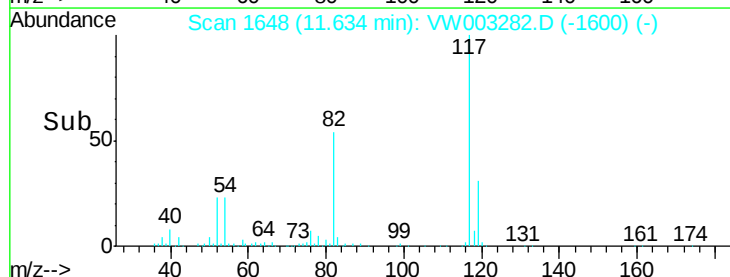
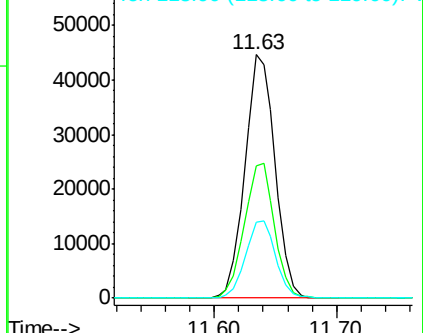
119 30.9 26.7 40.1

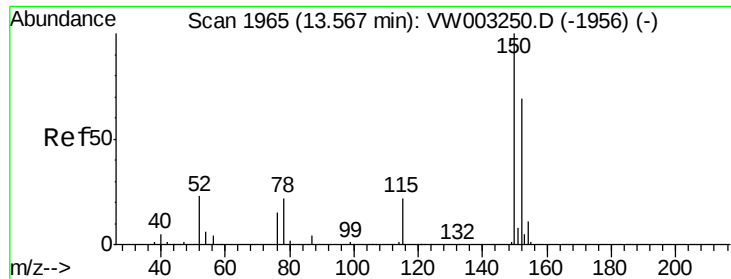


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(45-47)

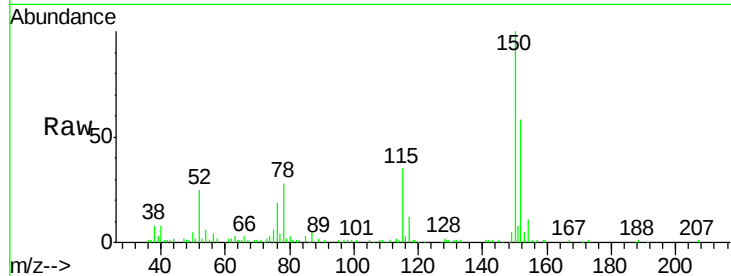
Tgt Ion:152 Resp: 15789

Ion Ratio Lower Upper

152 100

115 59.7 29.3 88.0

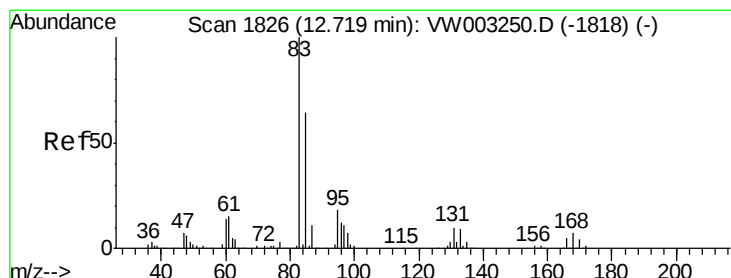
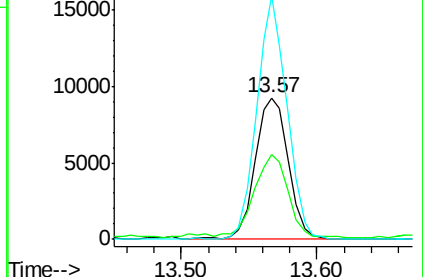
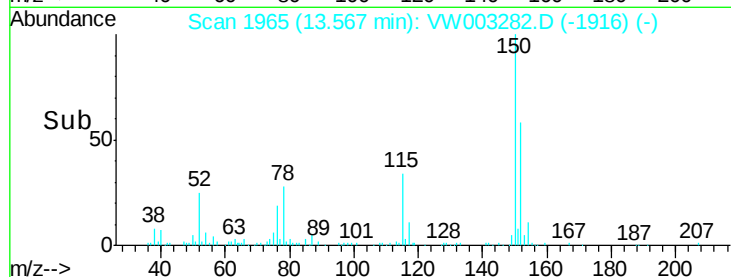
150 155.9 0.0 349.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: 3.240 ug/l

RT: 12.69 min Scan# 1822

Delta R.T. -0.02 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

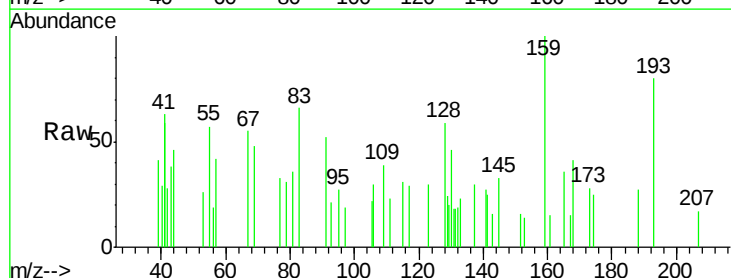
Tgt Ion: 83 Resp: 602

Ion Ratio Lower Upper

83 100

131 73.6 5.4 16.2#

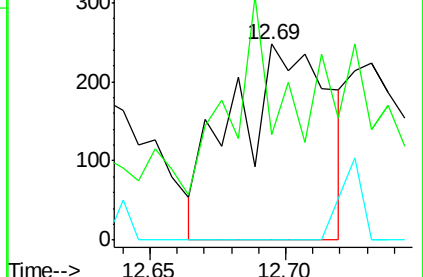
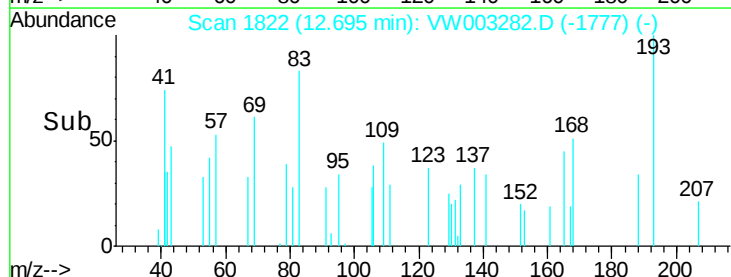
85 0.0 31.9 95.7#

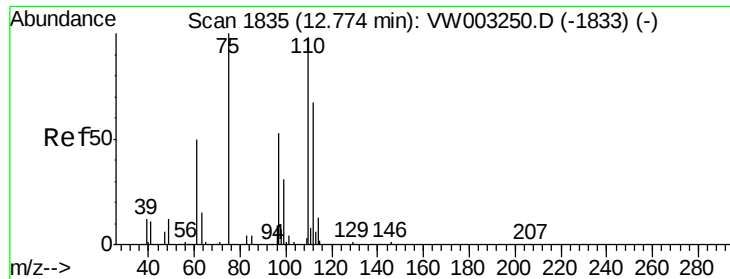


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 69.560 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

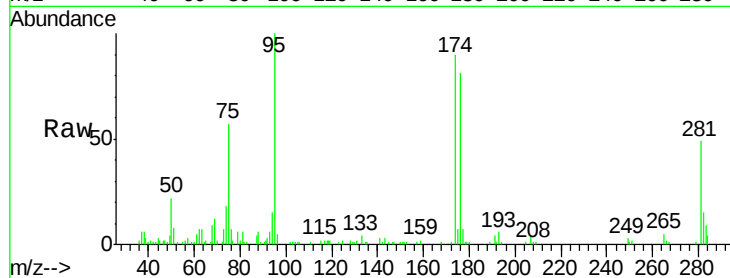
EPE-105-5(45-47)

Tgt Ion: 75 Resp: 9389

Ion Ratio Lower Upper

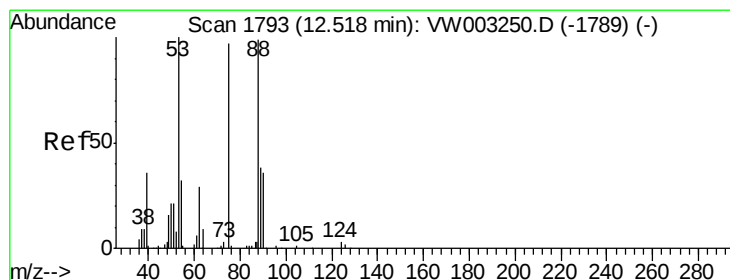
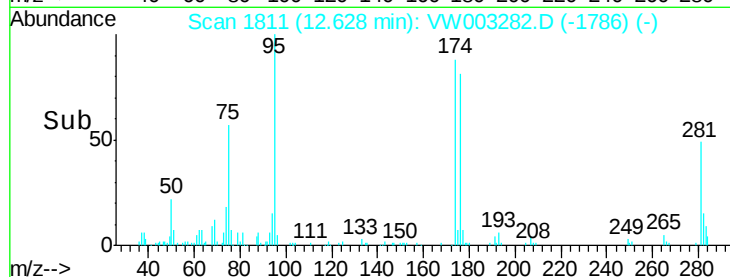
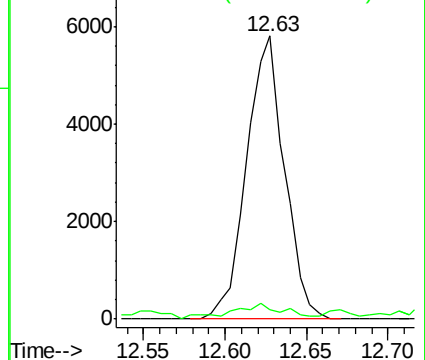
75 100

77 7.4 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: 160.061 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

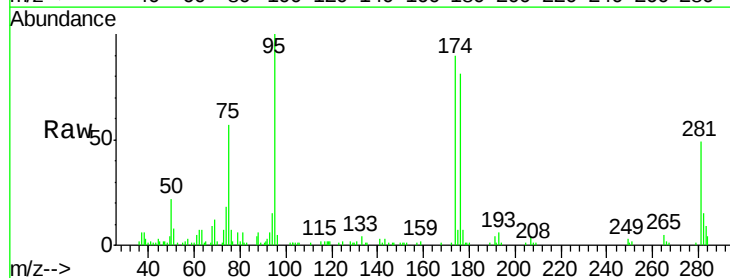
Tgt Ion: 75 Resp: 9389

Ion Ratio Lower Upper

75 100

53 1.7 82.9 124.3#

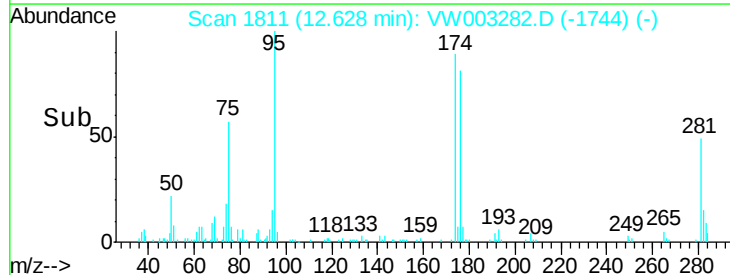
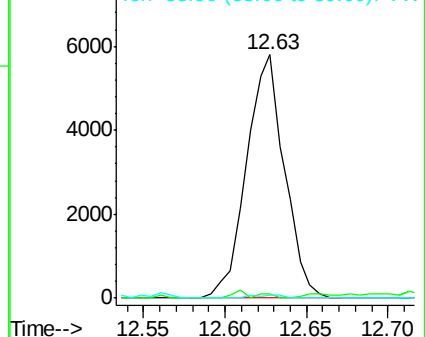
89 0.9 36.7 55.1#

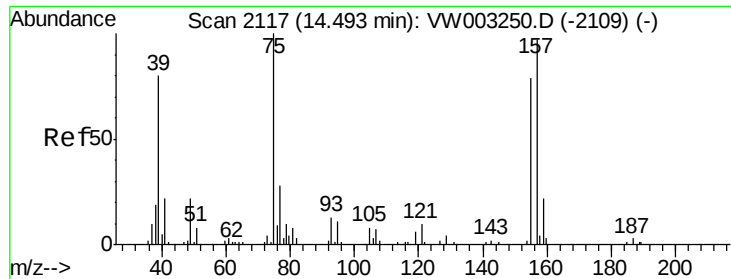


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.471 ug/l

RT: 14.37 min Scan# 2096

Delta R.T. -0.13 min

Lab File: VW003282.D

Acq: 15 Jun 2018 03:51

Instrument :

MSVOA_W

ClientSampleId :

EPE-105-5(45-47)

Tgt Ion: 75 Resp: 46

Ion Ratio Lower Upper

75 100

155 389.1 39.4 118.2#

157 0.0 51.5 154.5#

