

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061419\
 Data File : VX010305.D
 Acq On : 14 Jun 2019 17:02
 Operator : JC/SP
 Sample : K3384-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Jun 15 01:22:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	315874	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	476613	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	427771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198206	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	143194	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
35) Dibromofluoromethane	5.50	113	145042	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
50) Toluene-d8	8.71	98	559847	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	188891	45.90	ug/l	0.00
Spiked Amount			Recovery	=	91.80%	

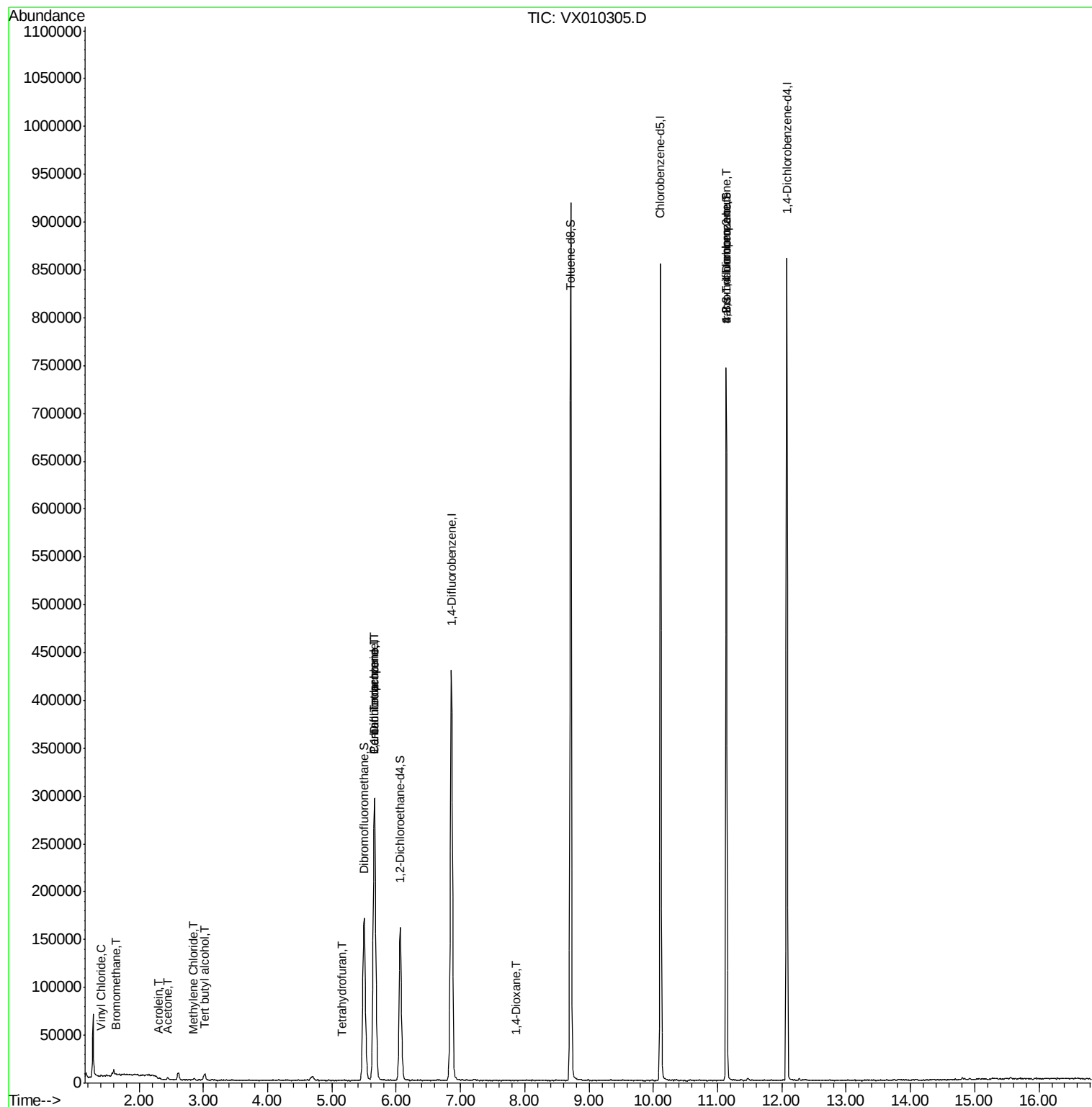
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	695	0.256	ug/l #	57
5) Bromomethane	1.65	94	566	0.553	ug/l #	50
11) Tert butyl alcohol	3.03	59	3843	5.088	ug/l #	73
13) Acrolein	2.31	56	52	0.378	ug/l #	1
16) Acetone	2.45	43	2288	1.578	ug/l #	64
20) Methylene Chloride	2.85	84	879	0.276	ug/l #	68
29) Tetrahydrofuran	5.15	42	363	0.267	ug/l #	75
36) 1,1-Dichloropropene	5.66	75	19118	4.917	ug/l #	52
38) Carbon Tetrachloride	5.66	117	27010	6.137	ug/l #	15
49) 1,4-Dioxane	7.87	88	23	0.255	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	88033	22.205	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	88033	49.061	ug/l #	10

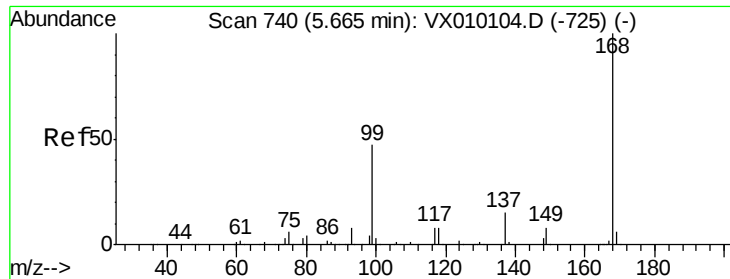
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

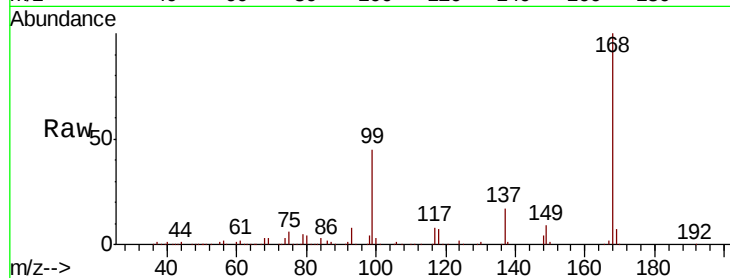
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 315874

Ion Ratio Lower Upper

168 100

99 44.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

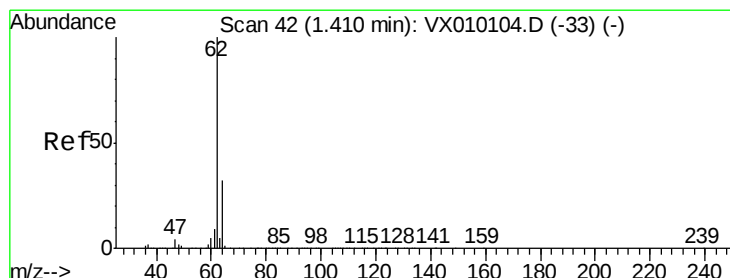
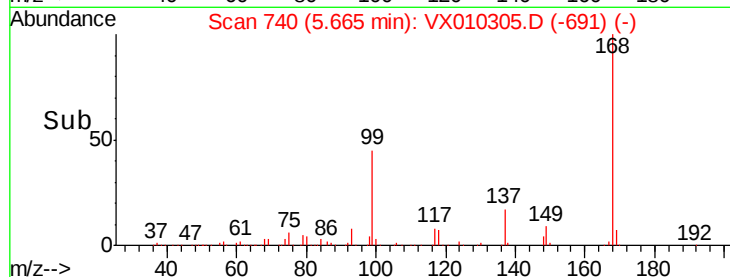
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.256 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX010305.D

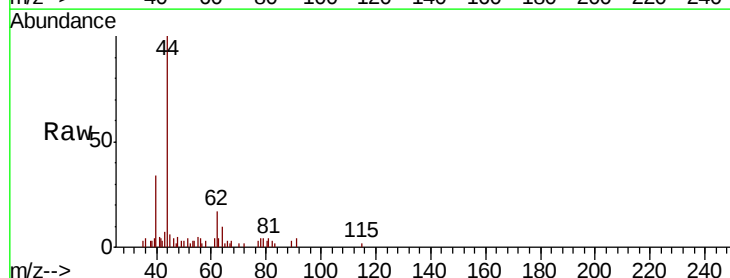
Acq: 14 Jun 2019 17:02

Tgt Ion: 62 Resp: 695

Ion Ratio Lower Upper

62 100

64 8.2 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

800

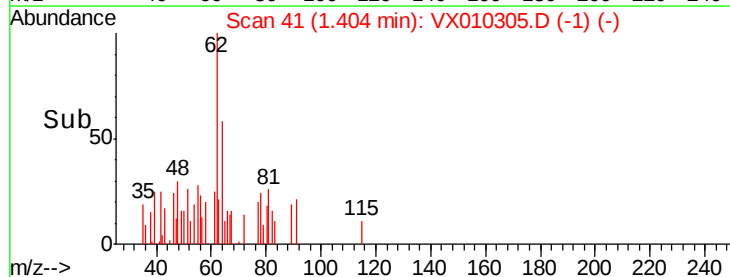
600

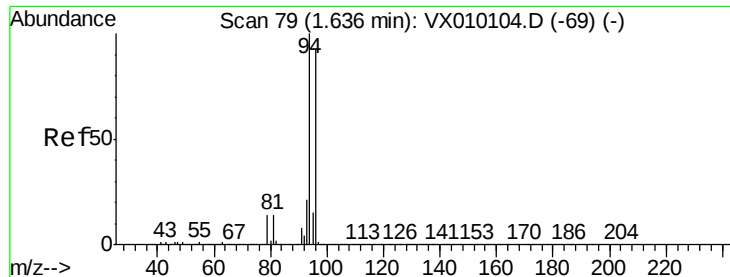
400

200

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.553 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

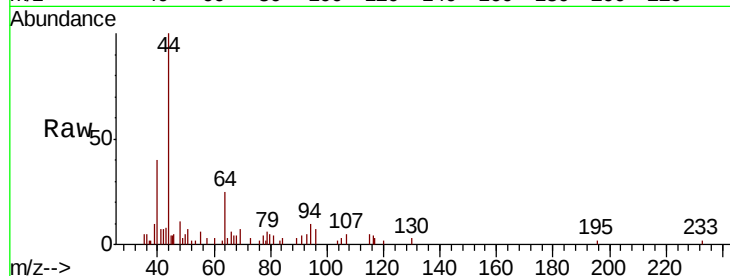
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 566

Ion Ratio Lower Upper

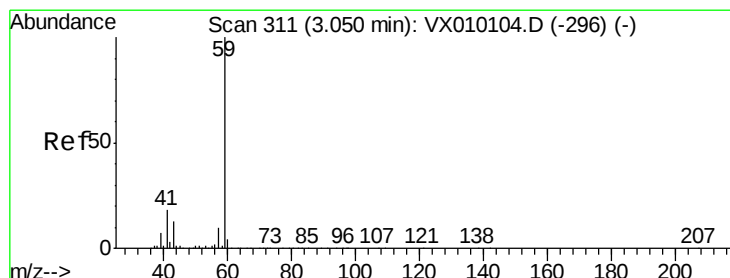
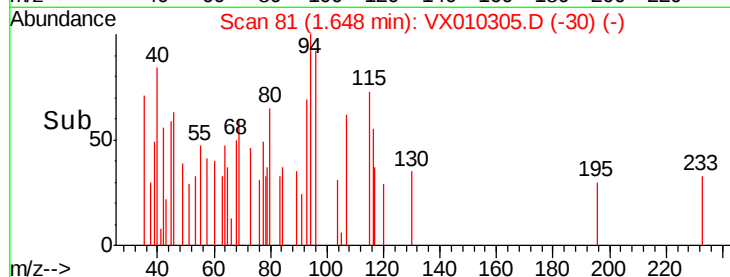
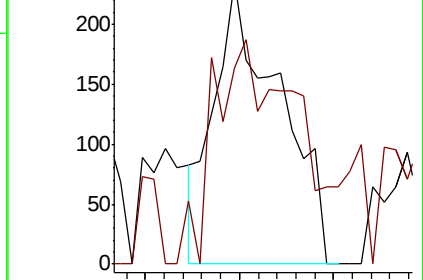
94 100

96 47.0 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 5.088 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010305.D

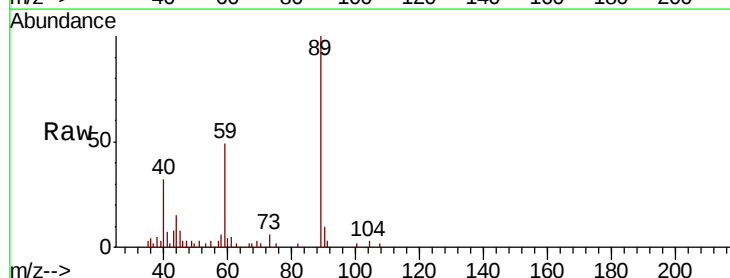
Acq: 14 Jun 2019 17:02

Tgt Ion: 59 Resp: 3843

Ion Ratio Lower Upper

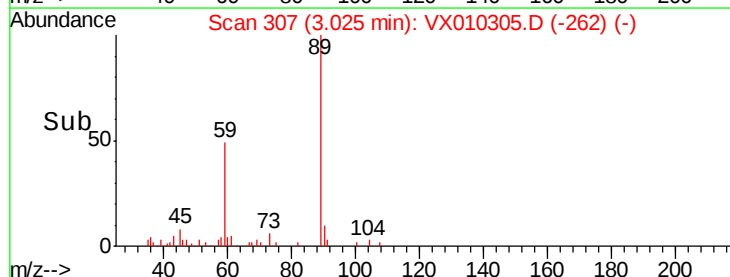
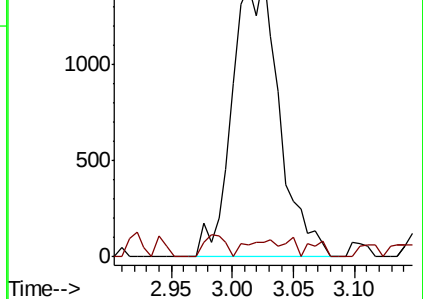
59 100

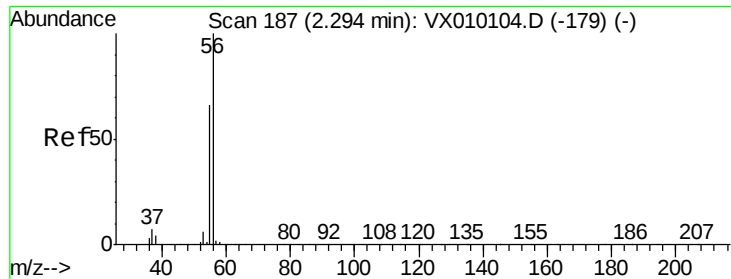
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.378 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

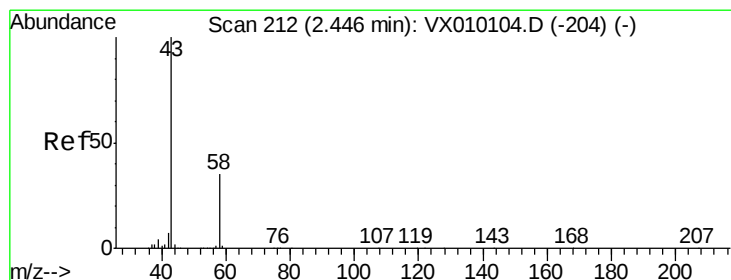
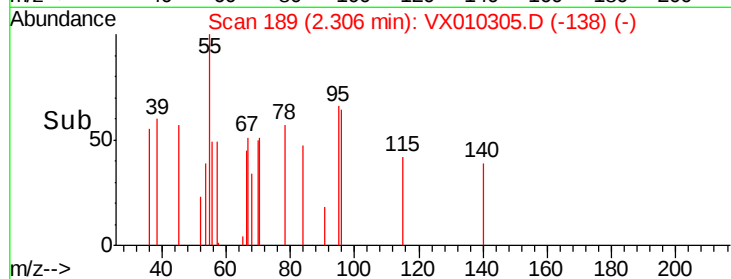
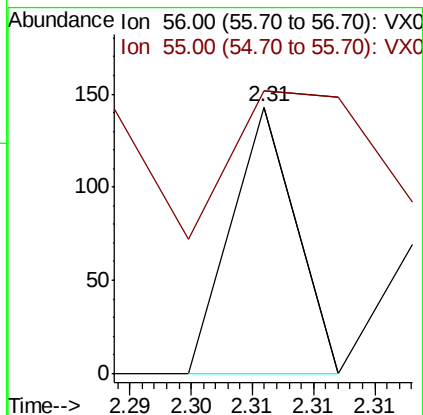
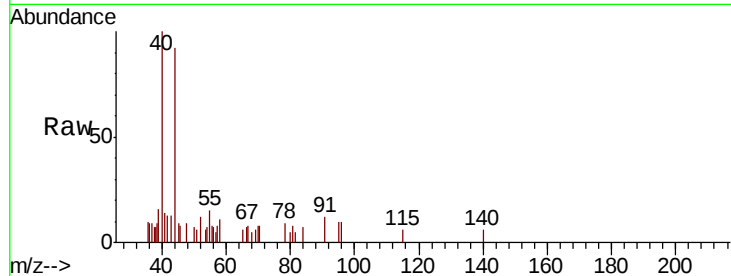
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 52

Ion Ratio Lower Upper

56 100

55 546.2 57.0 85.4#



#16

Acetone

Concen: 1.578 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010305.D

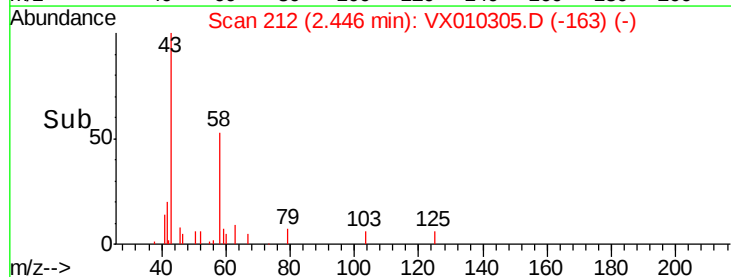
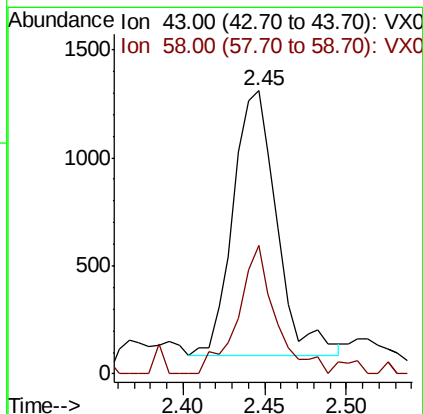
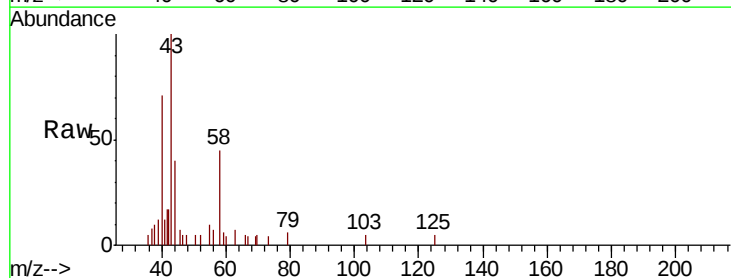
Acq: 14 Jun 2019 17:02

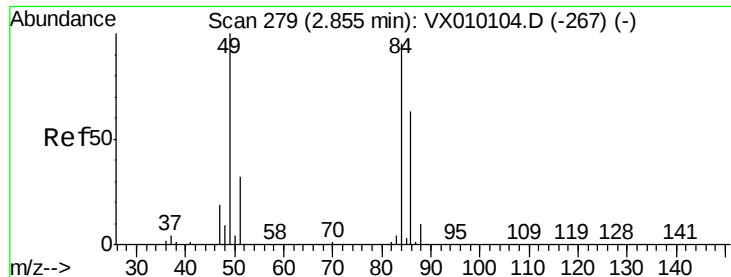
Tgt Ion: 43 Resp: 2288

Ion Ratio Lower Upper

43 100

58 48.4 23.2 34.8#

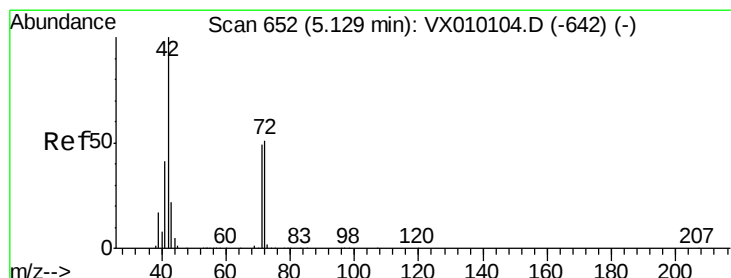
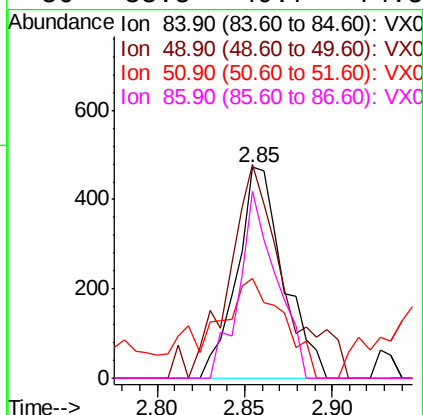
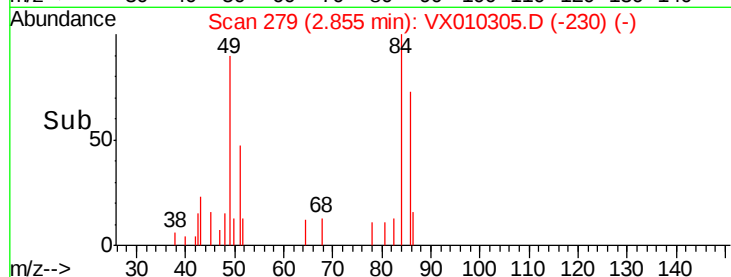
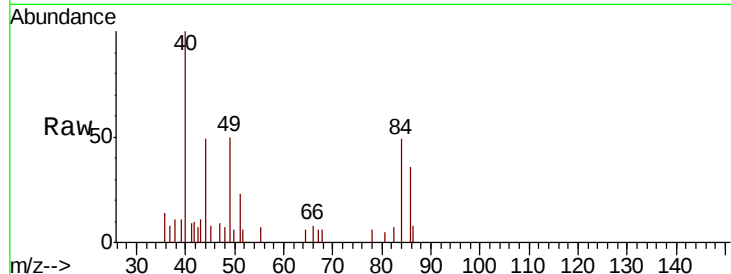




#20
Methvlene Chloride
Concen: 0.276 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX010305.D
Acq: 14 Jun 2019 17:02

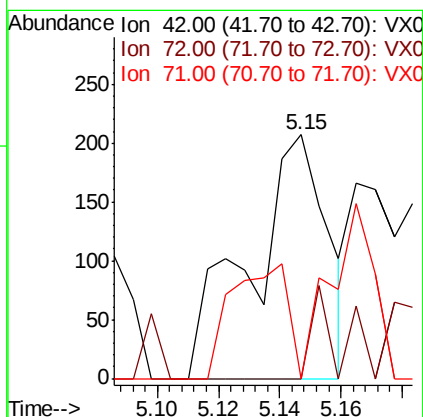
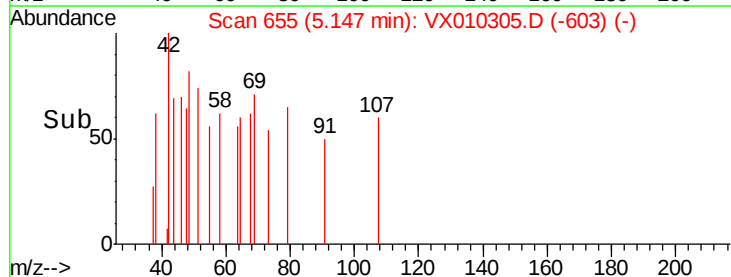
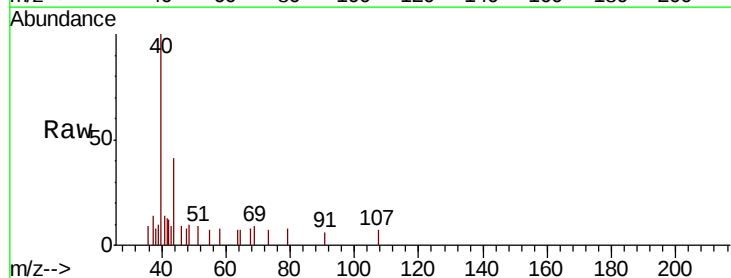
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

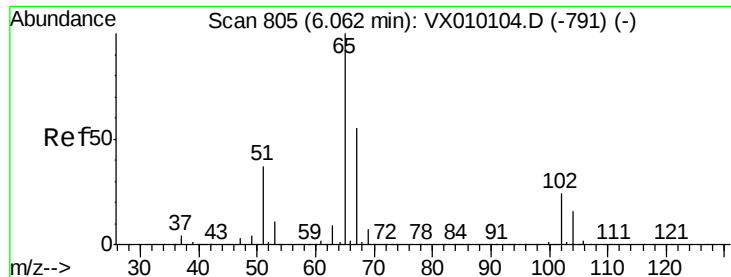
Tot Ion: 84 Resp: 879
Ion Ratio Lower Upper
84 100
49 101.3 115.8 173.6#
51 30.9 34.4 51.6#
86 88.8 49.7 74.5#



#29
Tetrahydrofuran
Concen: 0.267 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX010305.D
Acq: 14 Jun 2019 17:02

Tgt Ion: 42 Resp: 363
Ion Ratio Lower Upper
42 100
72 8.0 29.2 43.8#
71 33.9 27.6 41.4





#33

1,2-Dichloroethane-d4

Concen: 46.442 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

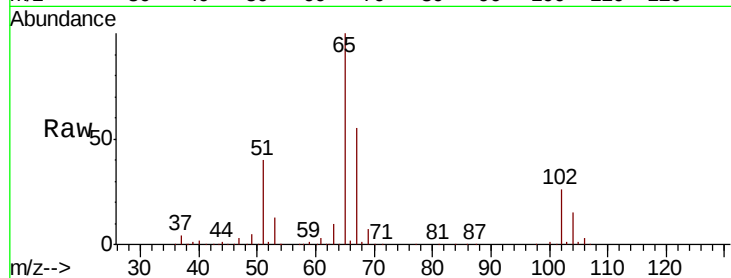
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 65 Resp: 143194

Ion Ratio Lower Upper

65 100

67 54.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

30000

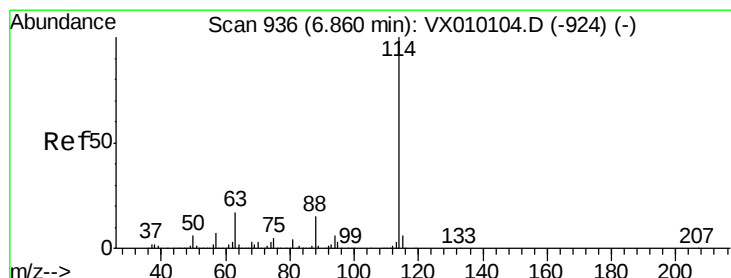
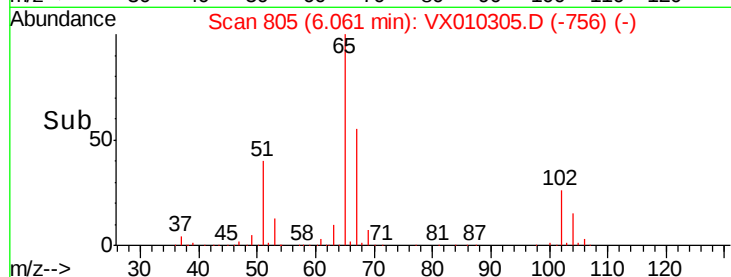
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

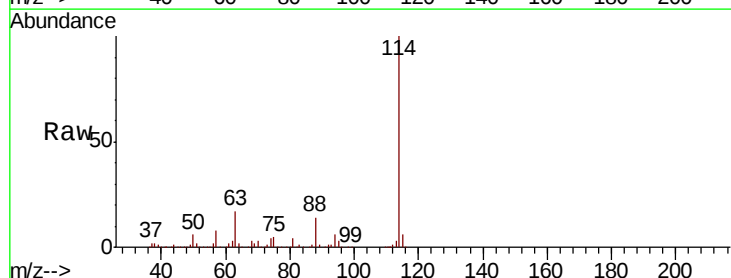
Tgt Ion: 114 Resp: 476613

Ion Ratio Lower Upper

114 100

63 17.3 0.0 47.4

88 14.3 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

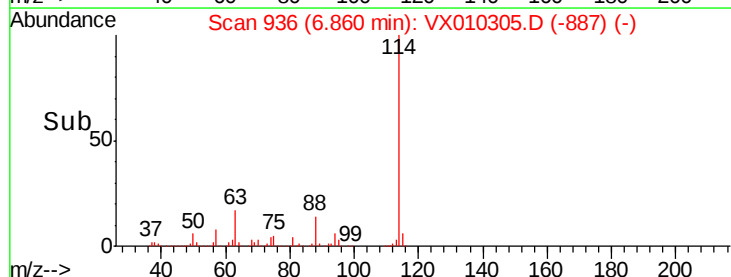
100000

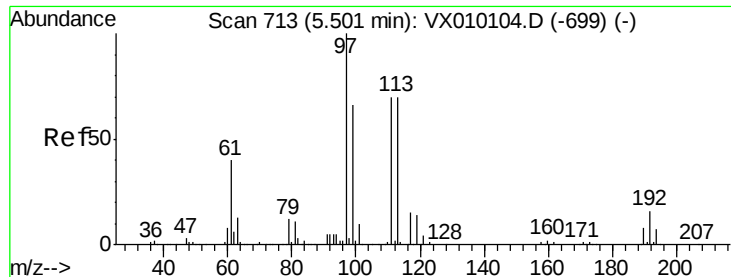
50000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.336 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

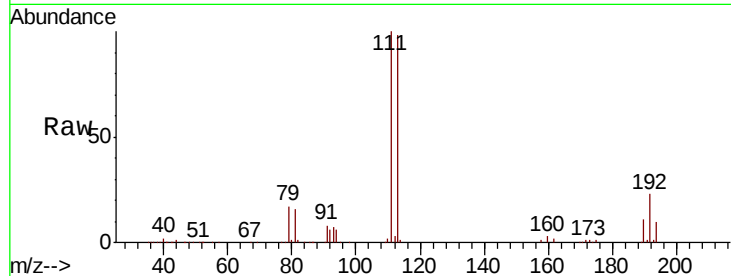
Tot Ion:113 Resp: 145042

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.2

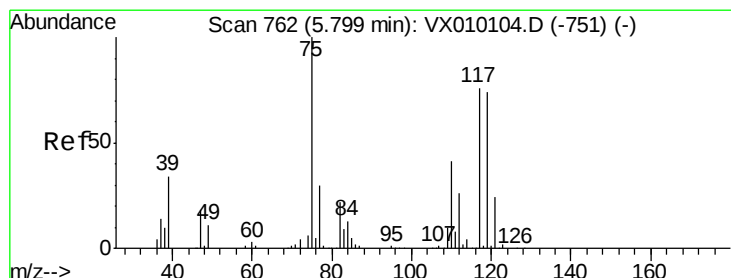
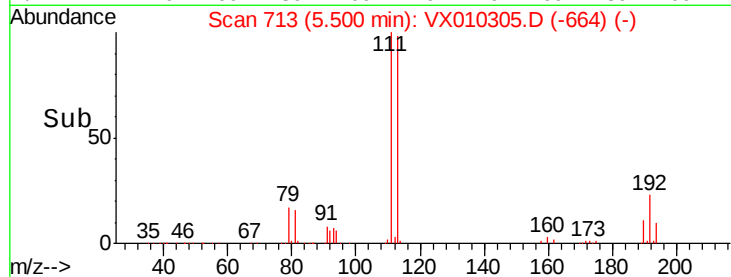
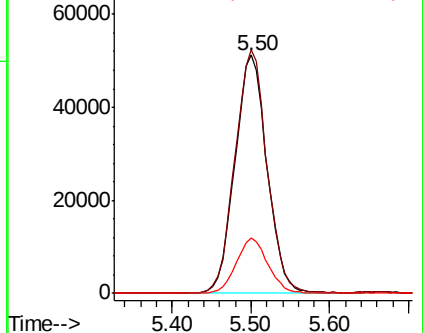
192 22.8 17.1 25.7



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: 4.917 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

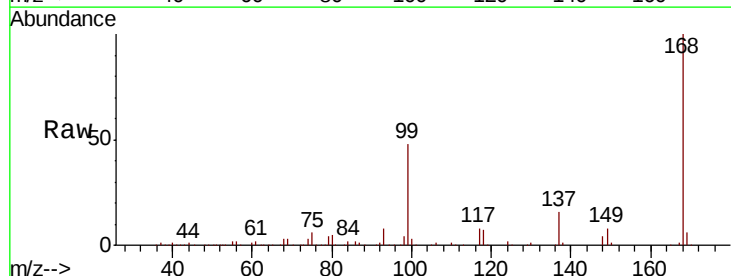
Tgt Ion: 75 Resp: 19118

Ion Ratio Lower Upper

75 100

110 10.3 16.7 50.1#

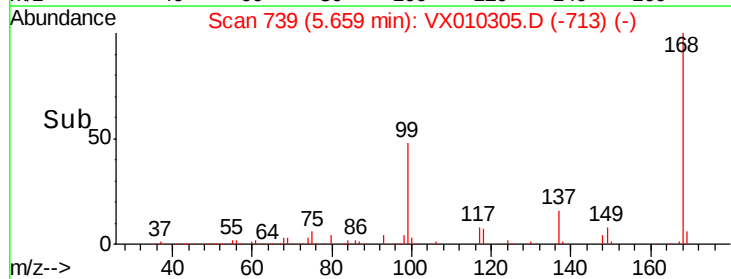
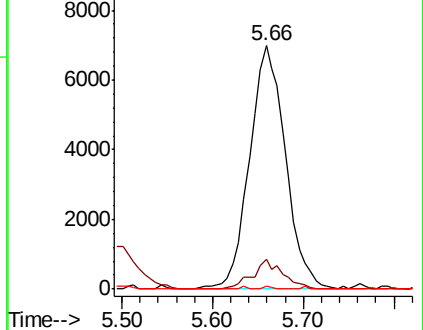
77 0.3 25.0 37.4#

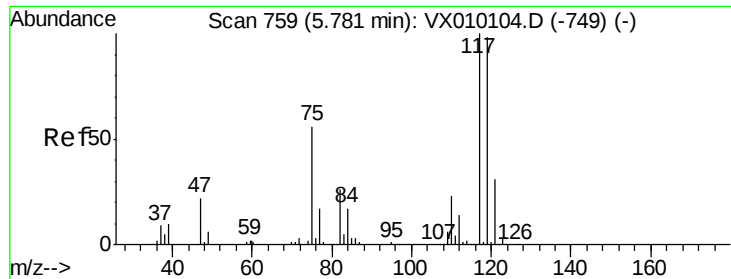


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.137 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

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MSVOA_X

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STORAGE-BLANK-SOIL-REF-6

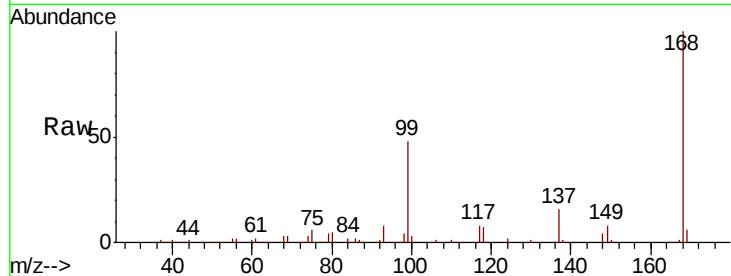
Tot Ion:117 Resp: 27010

Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

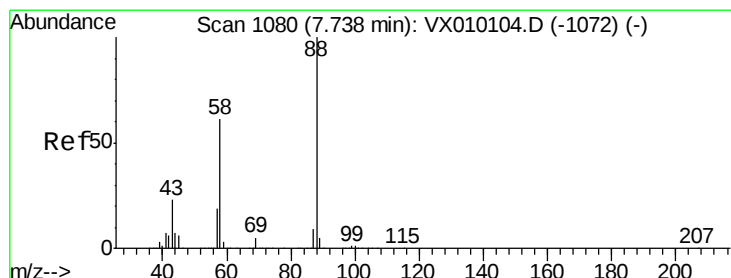
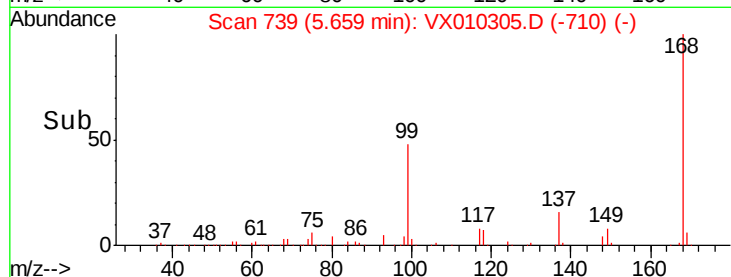
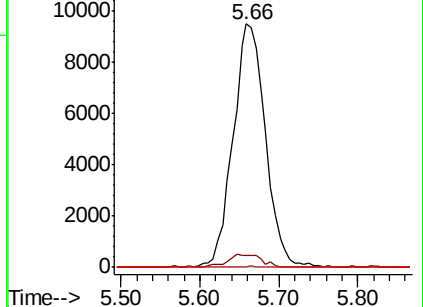
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.255 ug/l

RT: 7.87 min Scan# 1101

Delta R.T. 0.13 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

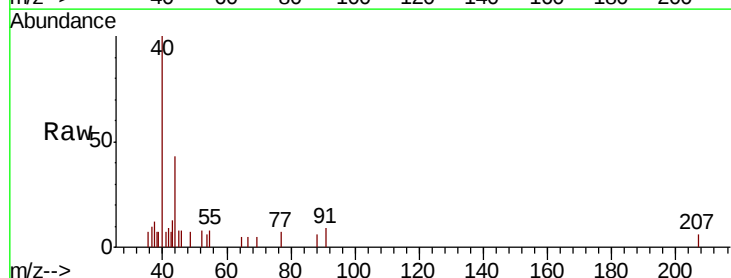
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 460.9 30.2 45.4#

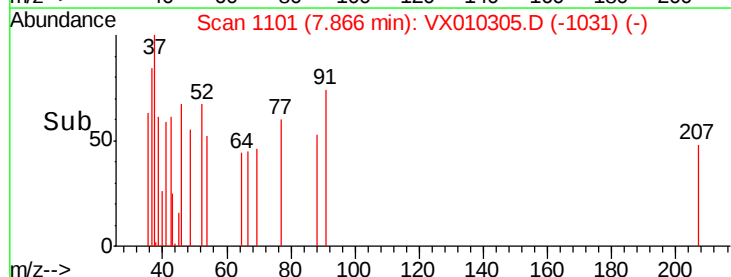
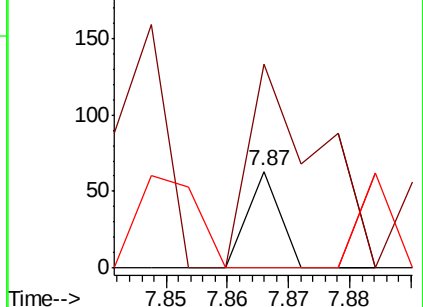
58 100.0 64.0 96.0#

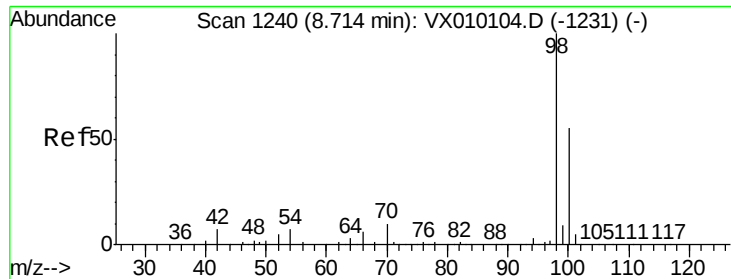


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.811 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

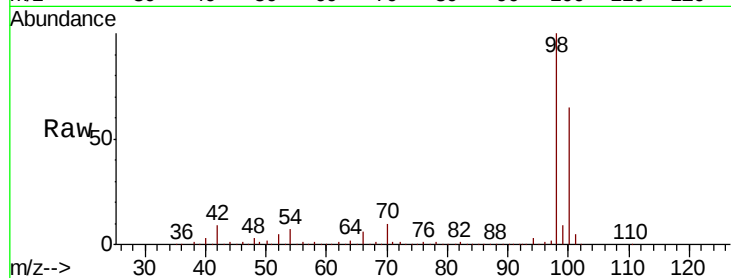
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 98 Resp: 559847

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

400000

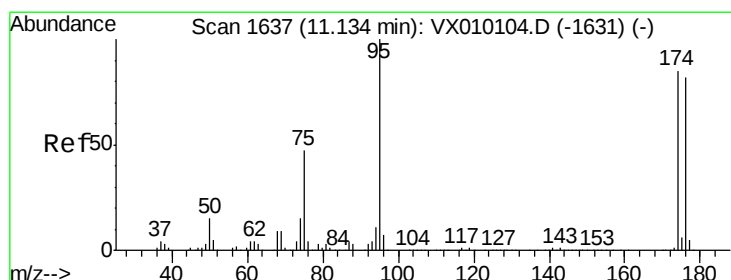
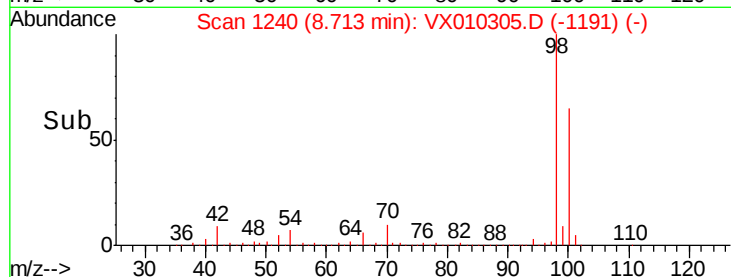
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 45.905 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

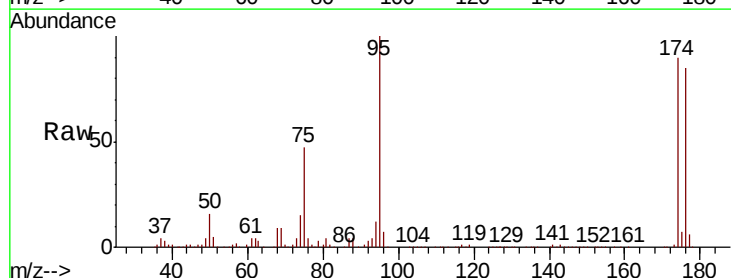
Tgt Ion: 95 Resp: 188891

Ion Ratio Lower Upper

95 100

174 94.6 0.0 160.4

176 91.7 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

200000

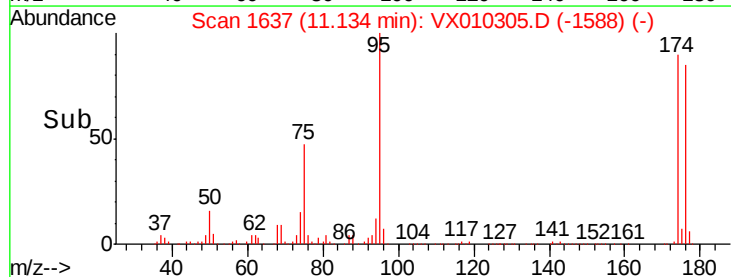
150000

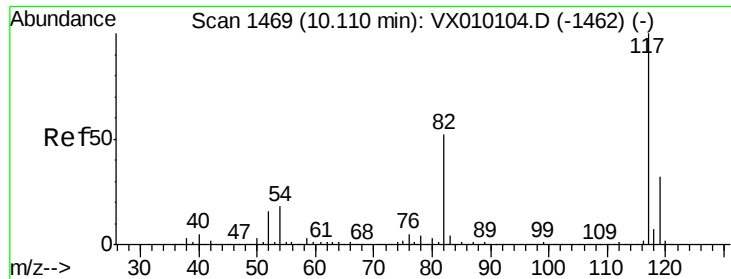
100000

50000

0

Time--> 11.10 11.20

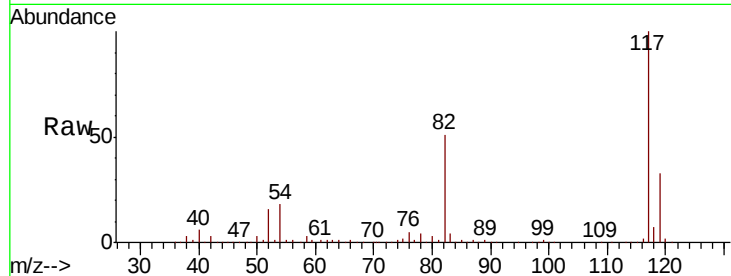




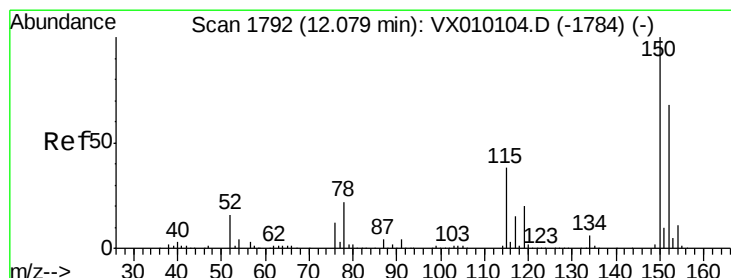
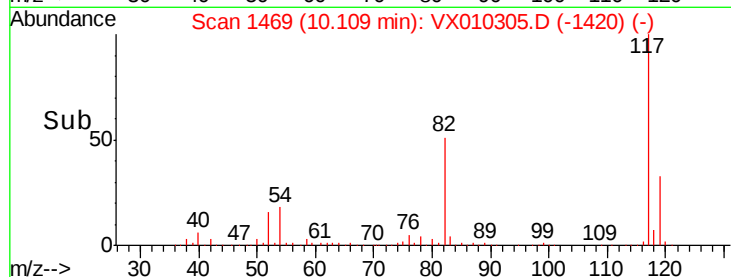
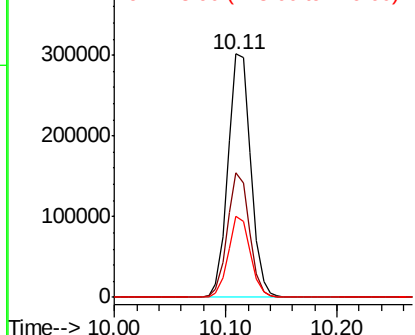
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010305.D
Acq: 14 Jun 2019 17:02

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 427771
Ion Ratio Lower Upper
117 100
82 51.0 49.2 73.8
119 33.1 25.2 37.8

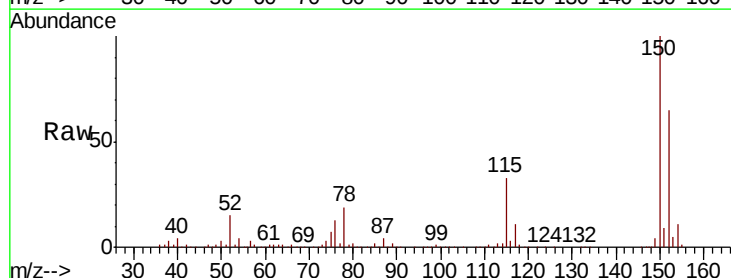


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

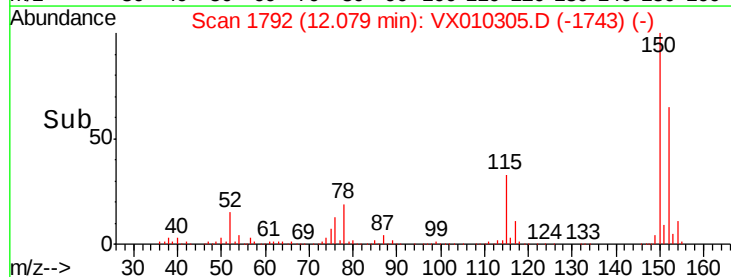
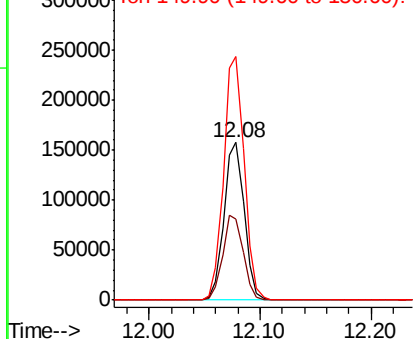


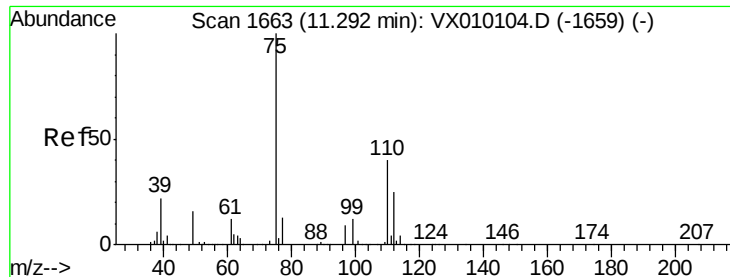
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010305.D
Acq: 14 Jun 2019 17:02

Tgt Ion:152 Resp: 198206
Ion Ratio Lower Upper
152 100
115 54.5 41.4 124.2
150 157.0 0.0 345.2



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





#76

1,2,3-Trichloropropane

Concen: 22.205 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

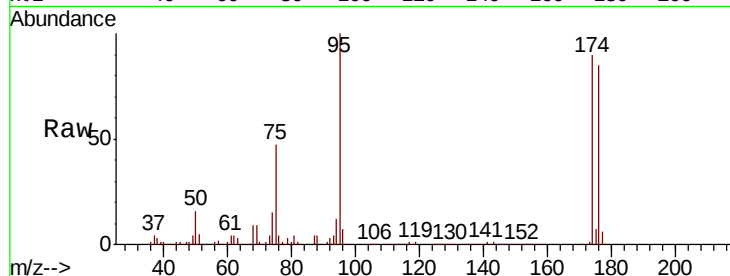
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 88033

Ion Ratio Lower Upper

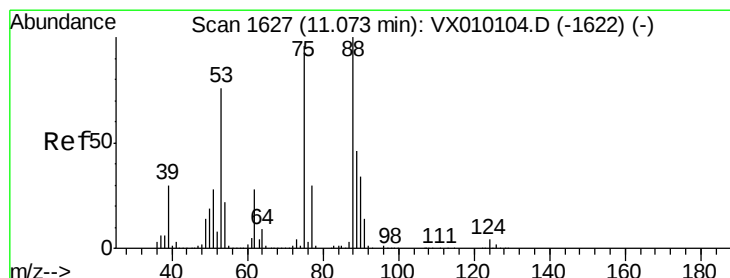
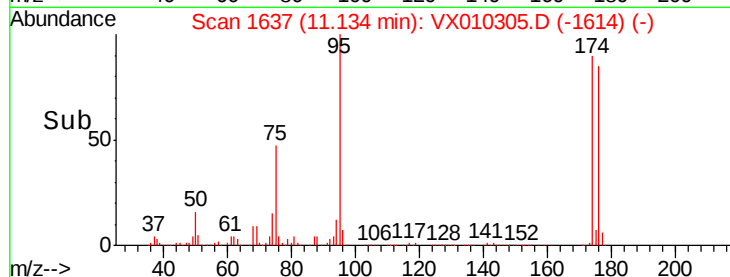
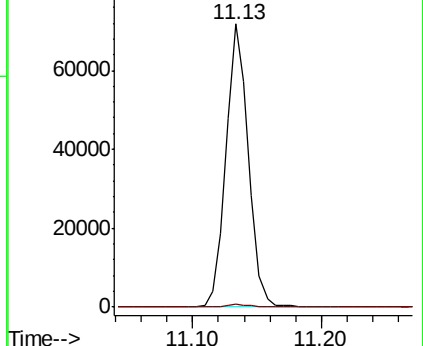
75 100

77 1.1 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 49.061 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010305.D

Acq: 14 Jun 2019 17:02

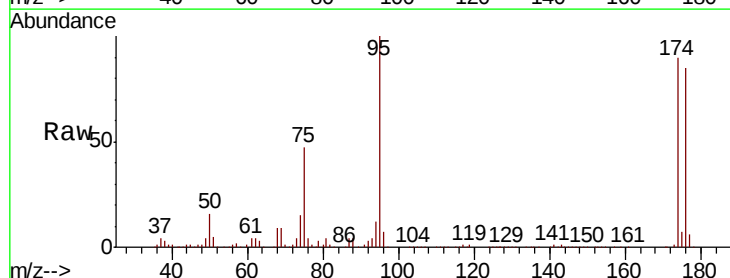
Tgt Ion: 75 Resp: 88033

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.1 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

