

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002983.D
 Acq On : 28 Jun 2018 14:21
 Operator : JC/MD
 Sample : J3704-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-6

Quant Time: Jun 29 06:08:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	268826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	375922	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	343755	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193812	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	176415	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
35) Dibromofluoromethane	5.51	113	144670	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	8.72	98	520498	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
62) 4-Bromofluorobenzene	11.14	95	184769	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	

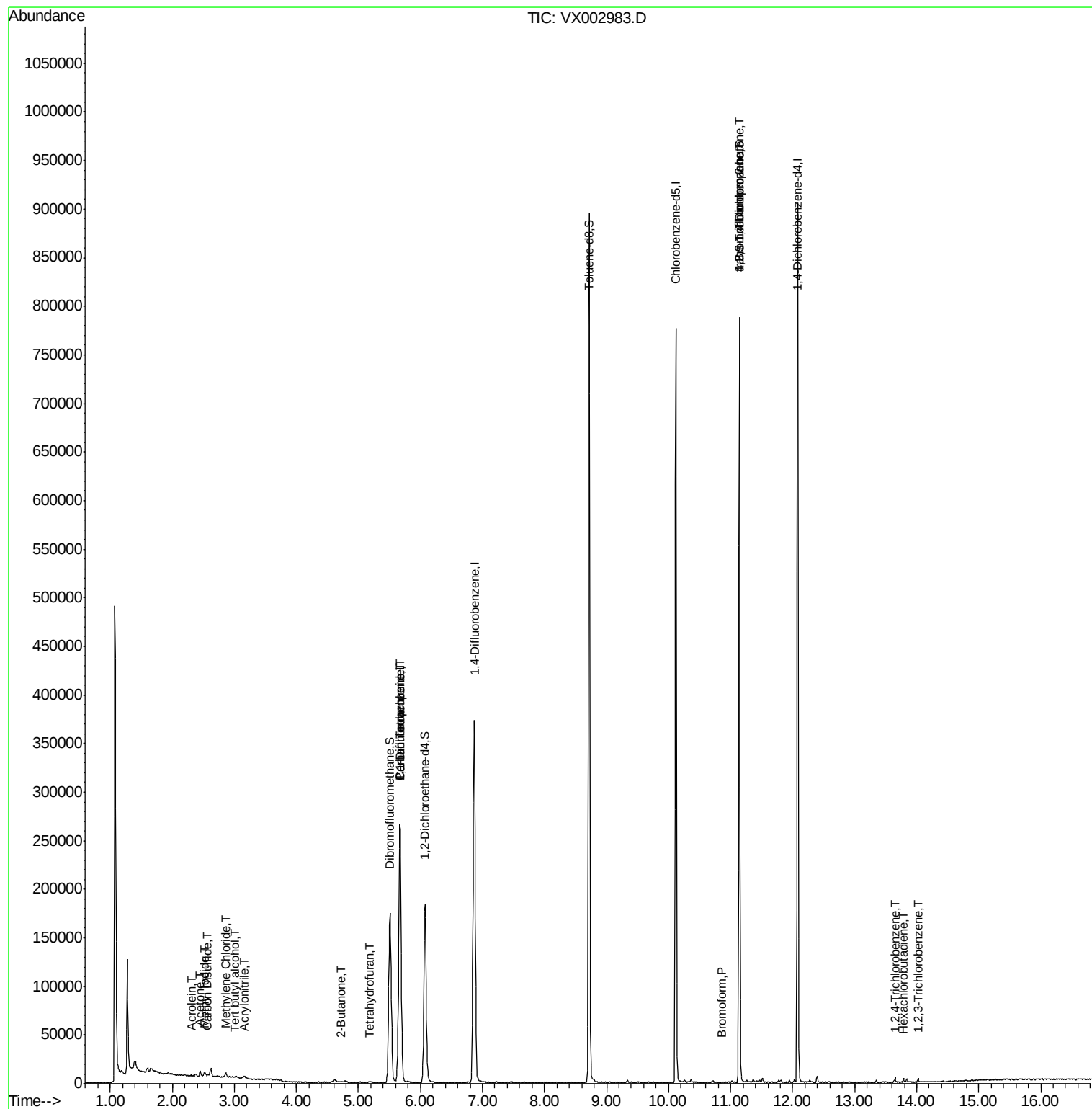
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	349	Below Cal		90
3) Chloromethane	1.32	50	1589	Below Cal	#	64
5) Bromomethane	1.65	94	2574	Below Cal		94
6) Chloroethane	1.72	64	910	Below Cal	#	62
10) Methyl Iodide	2.51	142	5042	7.69	ug/l	96
11) Tert butyl alcohol	3.01	59	1224	1.65	ug/l	# 84
13) Acrolein	2.30	56	292	4.93	ug/l	# 50
15) Acrylonitrile	3.16	53	592	0.37	ug/l	# 66
16) Acetone	2.45	43	5453	3.54	ug/l	92
17) Carbon Disulfide	2.57	76	3317	0.47	ug/l	# 89
20) Methylene Chloride	2.86	84	1941	0.65	ug/l	85
25) 2-Butanone	4.71	43	467	0.20	ug/l	# 52
29) Tetrahydrofuran	5.18	42	1011	0.69	ug/l	# 88
36) 1,1-Dichloropropene	5.67	75	18081	4.39	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24723	5.46	ug/l	# 15
71) Bromoform	10.85	173	50	3.92	ug/l	# 28
76) 1,2,3-Trichloropropane	11.14	75	95026	27.07	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	95026	76.62	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1186	0.24	ug/l	98
94) Hexachlorobutadiene	13.79	225	570	0.23	ug/l	89
96) 1,2,3-Trichlorobenzene	14.02	180	1069	0.21	ug/l	87

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

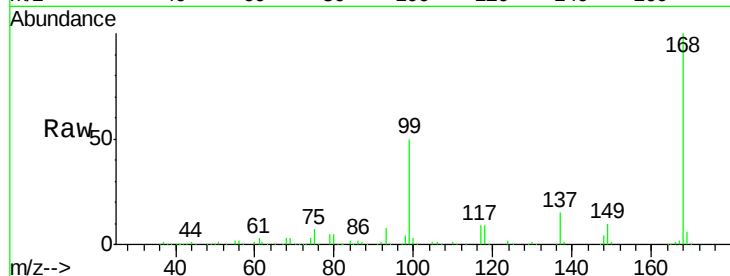
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 268826

Ion Ratio Lower Upper

168 100

99 50.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

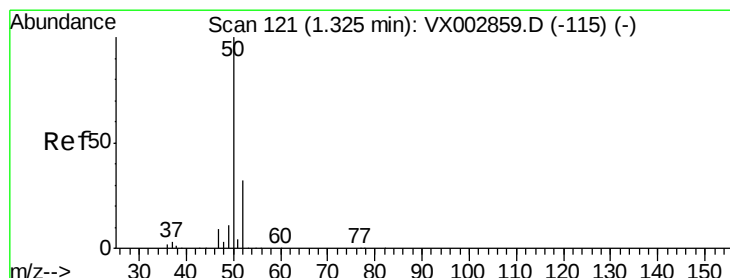
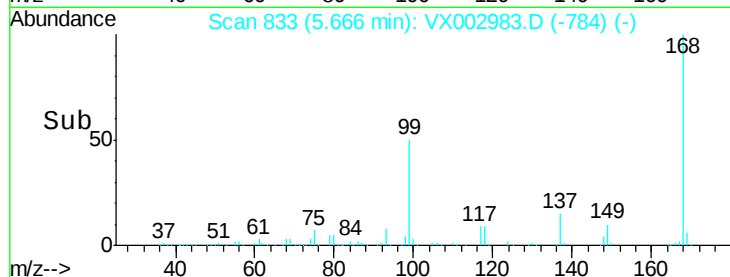
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002983.D

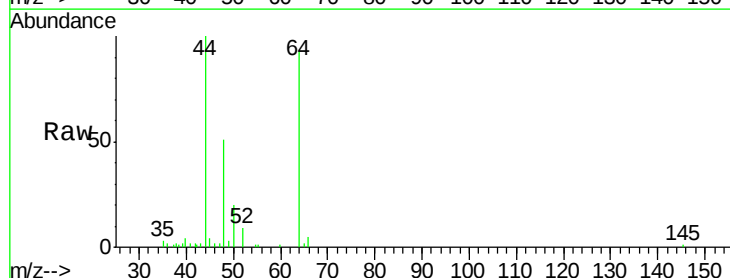
Acq: 28 Jun 2018 14:21

Tgt Ion: 50 Resp: 1589

Ion Ratio Lower Upper

50 100

52 51.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

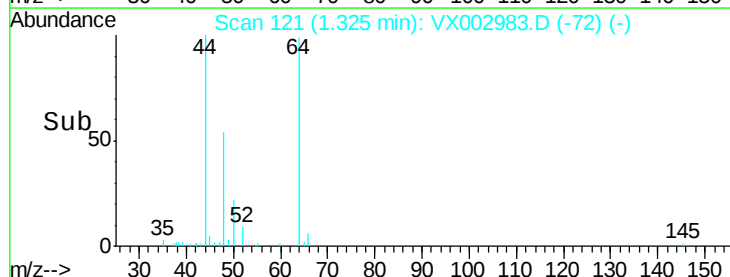
600

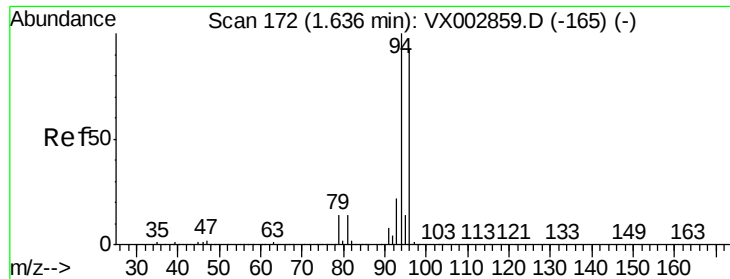
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

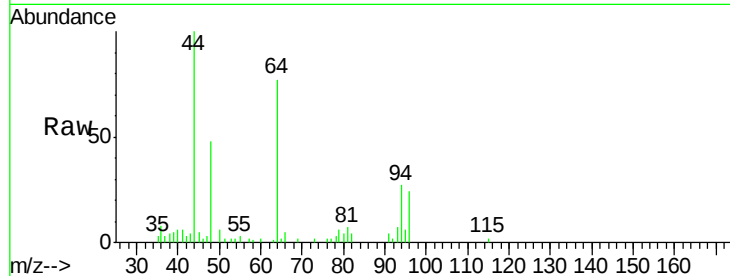
STORAGEBLANK-SOILREF-6

Tot Ion: 94 Resp: 2574

Ion Ratio Lower Upper

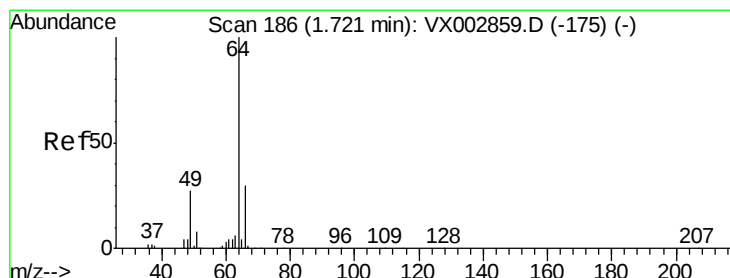
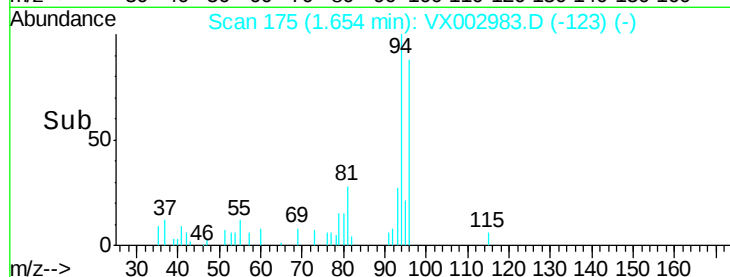
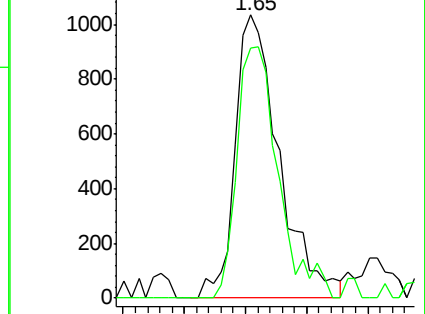
94 100

96 88.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX002983.D

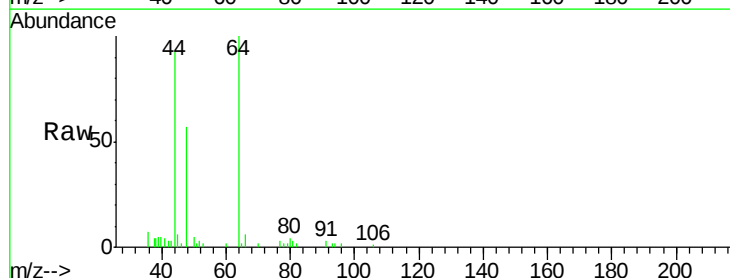
Acq: 28 Jun 2018 14:21

Tgt Ion: 64 Resp: 910

Ion Ratio Lower Upper

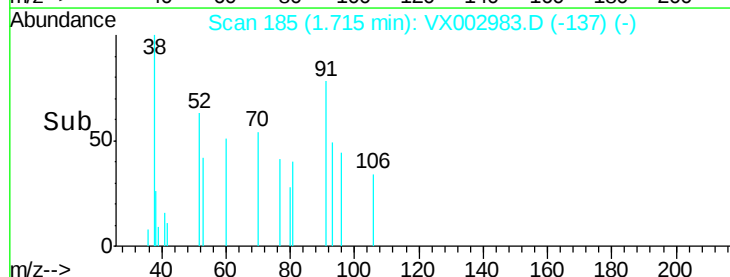
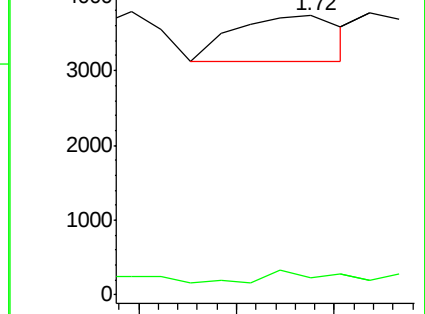
64 100

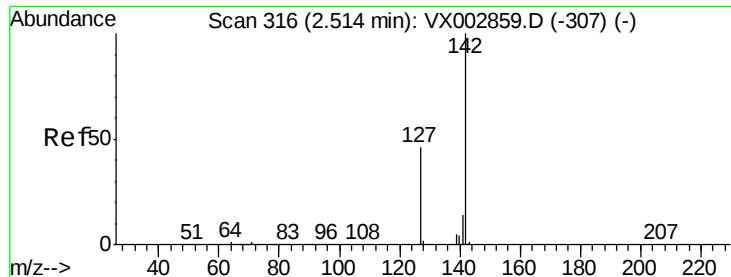
66 10.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

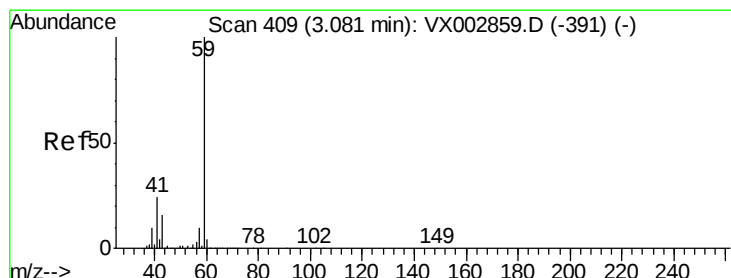
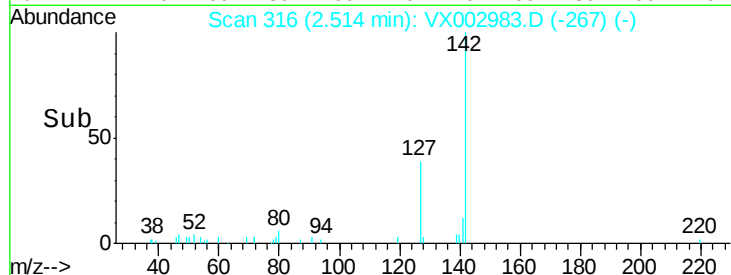
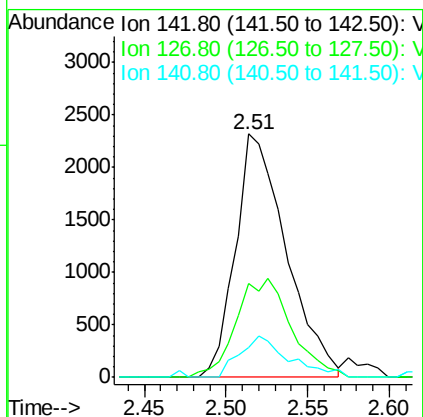
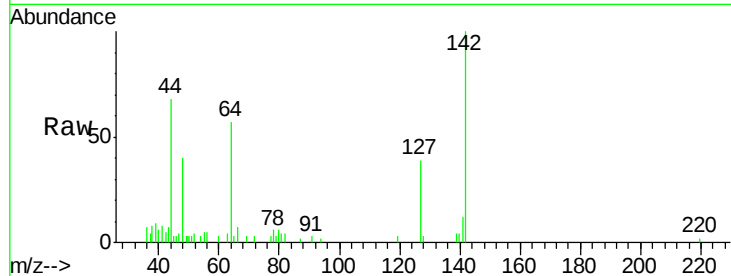




#10
Methvl Iodide
Concen: 7.69 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

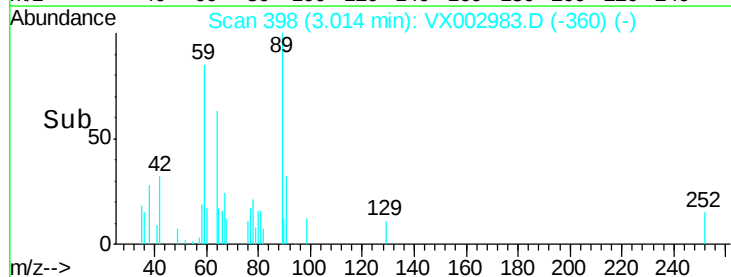
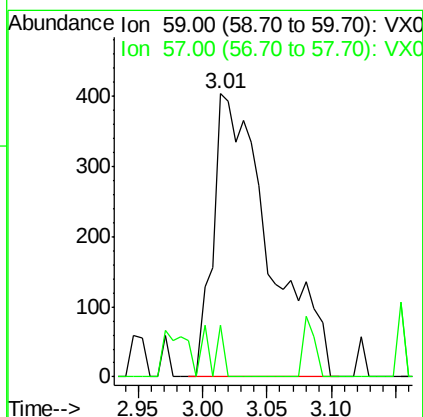
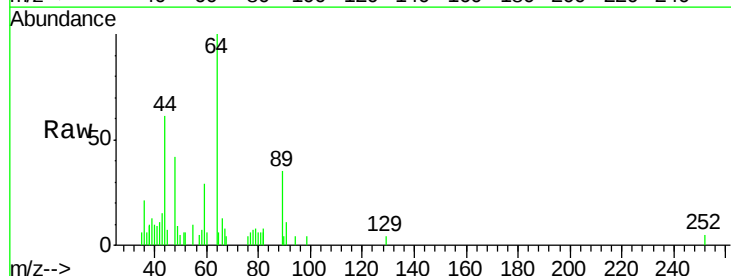
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

Tot Ion:142 Resp: 5042
Ion Ratio Lower Upper
142 100
127 44.0 36.6 55.0
141 16.5 11.3 16.9



#11
Tert butyl alcohol
Concen: 1.65 ug/l
RT: 3.01 min Scan# 398
Delta R.T. -0.07 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

Tgt Ion: 59 Resp: 1224
Ion Ratio Lower Upper
59 100
57 4.4 8.2 12.2#





#13

Acrolein

Concen: 4.93 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

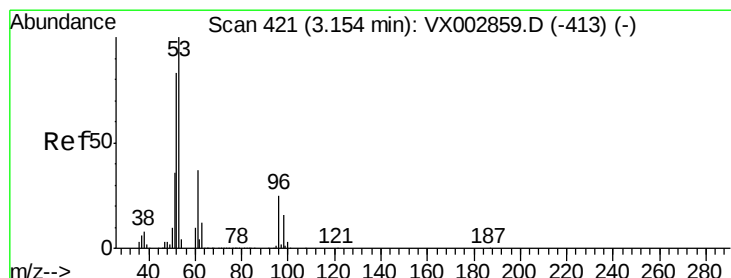
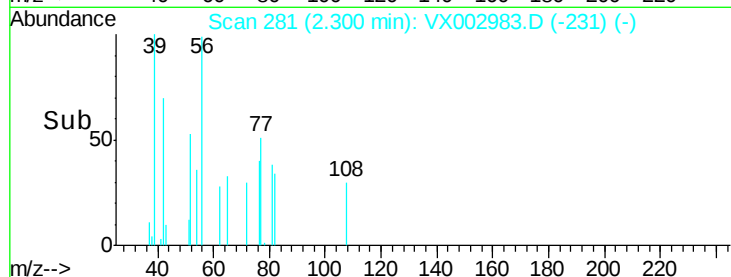
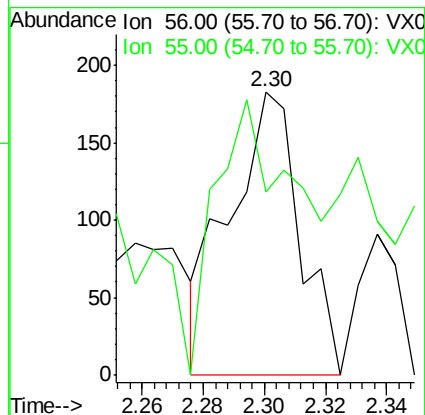
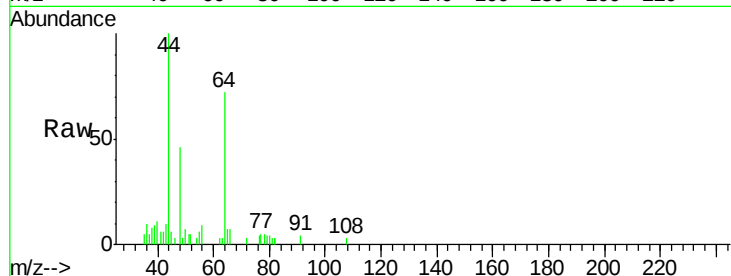
STORAGEBLANK-SOILREF-6

Tot Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 113.0 57.0 85.4#



#15

Acrylonitrile

Concen: 0.37 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

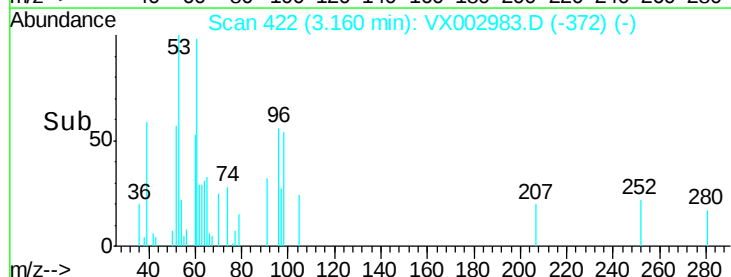
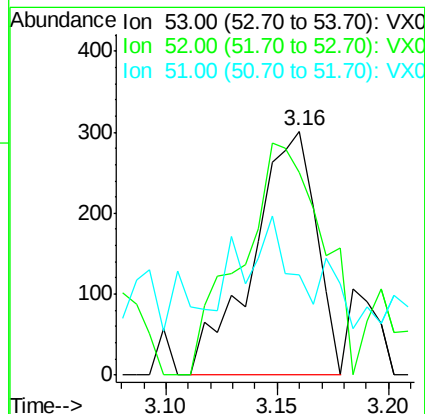
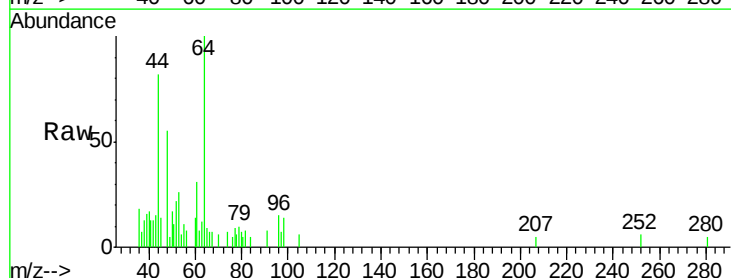
Tgt Ion: 53 Resp: 592

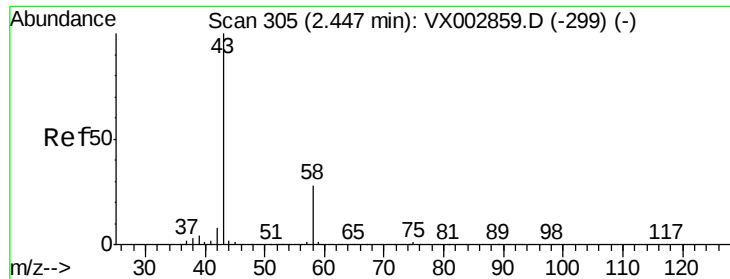
Ion Ratio Lower Upper

53 100

52 122.1 66.7 100.1#

51 28.4 29.9 44.9#





#16

Acetone

Concen: 3.54 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

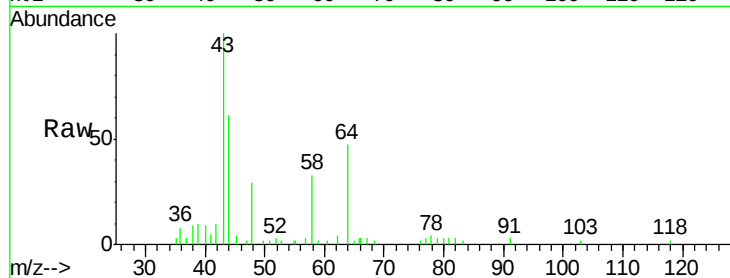
STORAGEBLANK-SOILREF-6

Tot Ion: 43 Resp: 5453

Ion Ratio Lower Upper

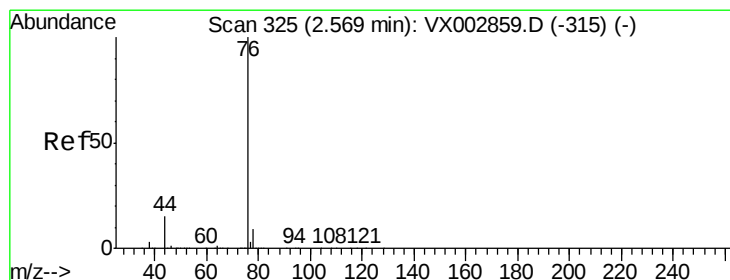
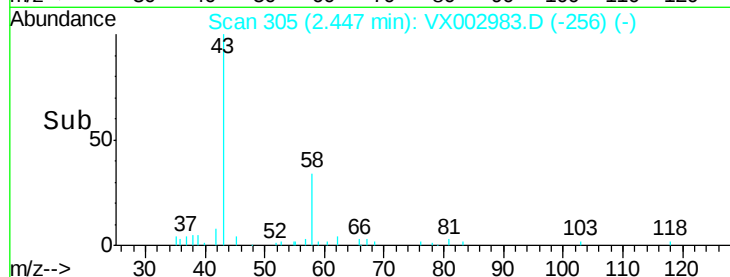
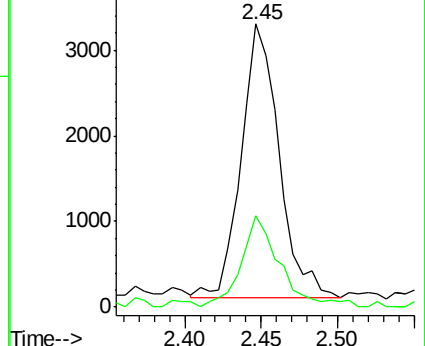
43 100

58 31.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.47 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002983.D

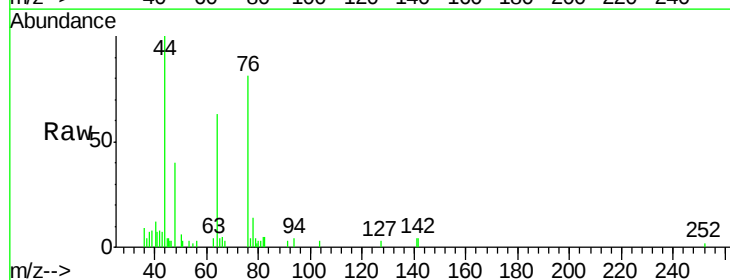
Acq: 28 Jun 2018 14:21

Tgt Ion: 76 Resp: 3317

Ion Ratio Lower Upper

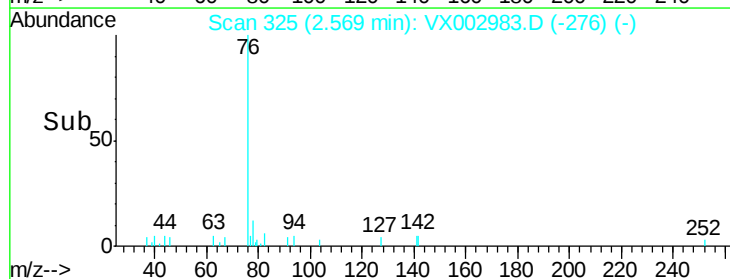
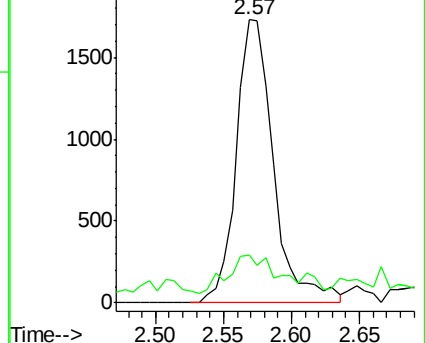
76 100

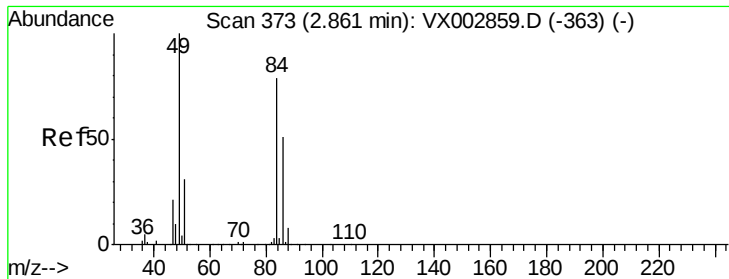
78 12.6 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.65 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

Tot Ion: 84 Resp: 1941

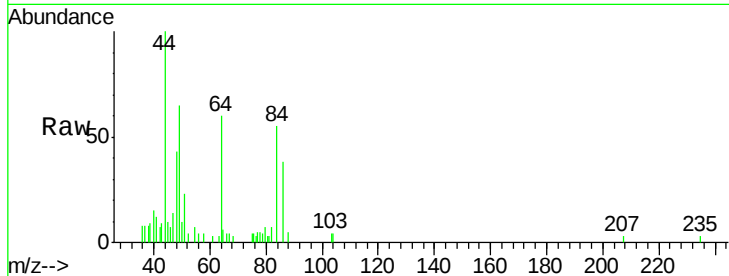
Ion Ratio Lower Upper

84 100

49 109.6 107.8 161.6

51 34.6 32.8 49.2

86 68.9 52.5 78.7

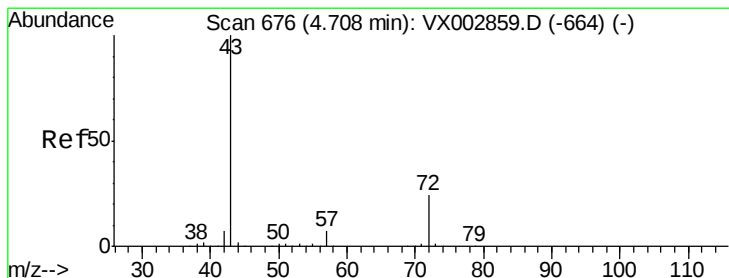
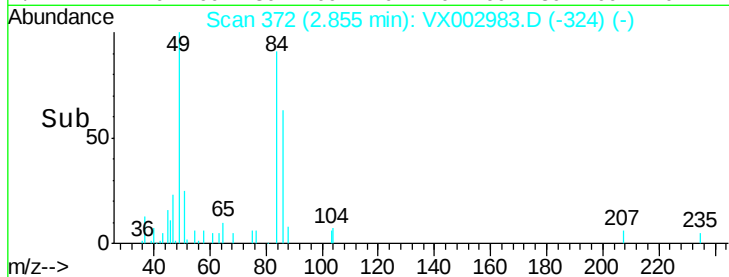
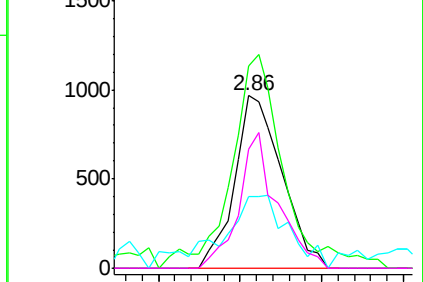


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.20 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX002983.D

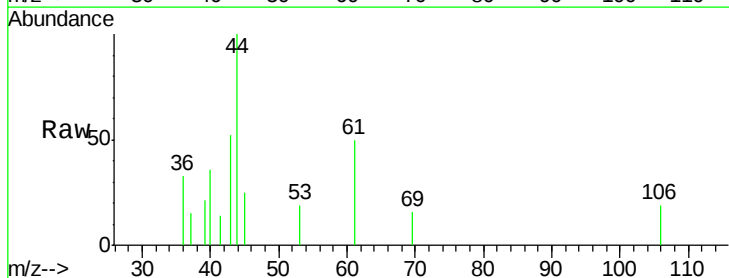
Acq: 28 Jun 2018 14:21

Tgt Ion: 43 Resp: 467

Ion Ratio Lower Upper

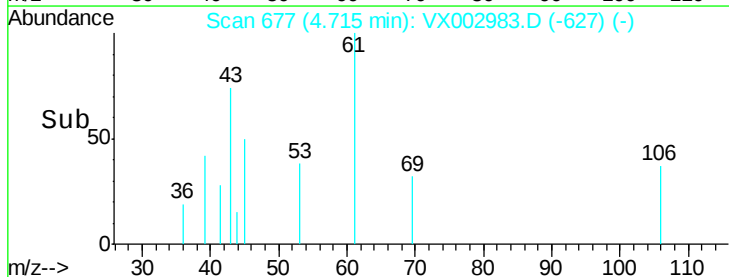
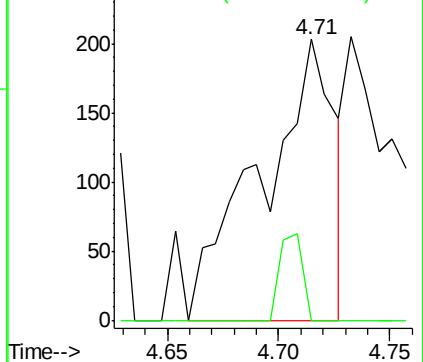
43 100

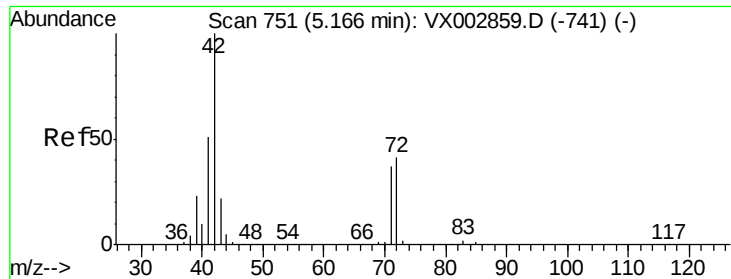
72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.69 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

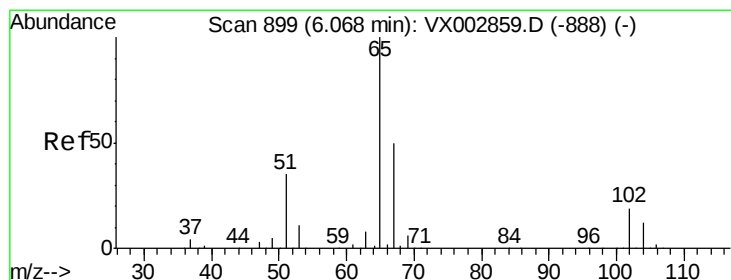
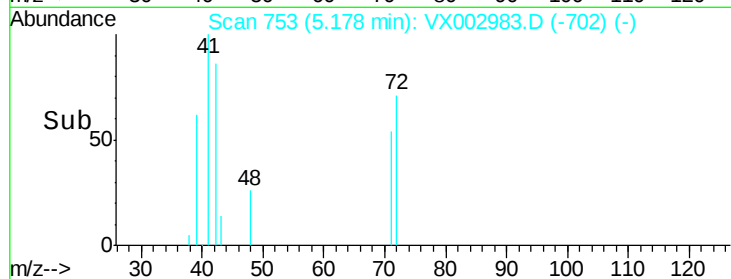
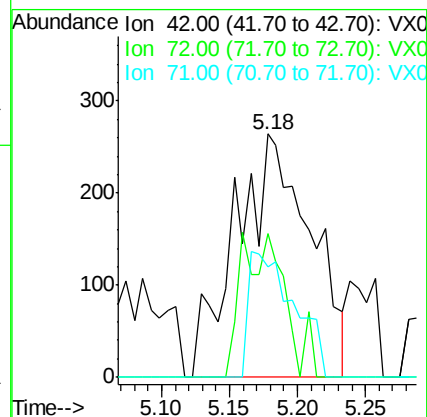
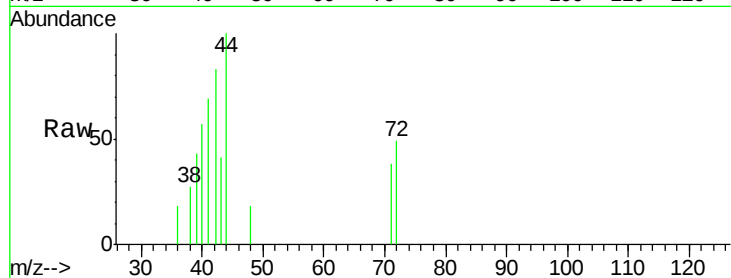
Tot Ion: 42 Resp: 1011

Ion Ratio Lower Upper

42 100

72 31.9 32.0 48.0#

71 31.6 30.1 45.1



#33

1,2-Dichloroethane-d4

Concen: 47.48 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002983.D

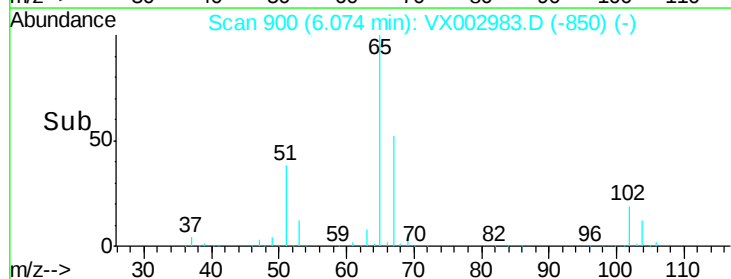
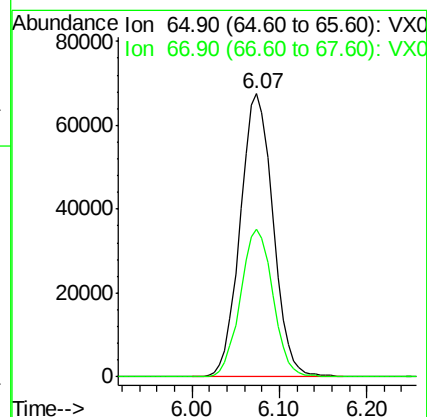
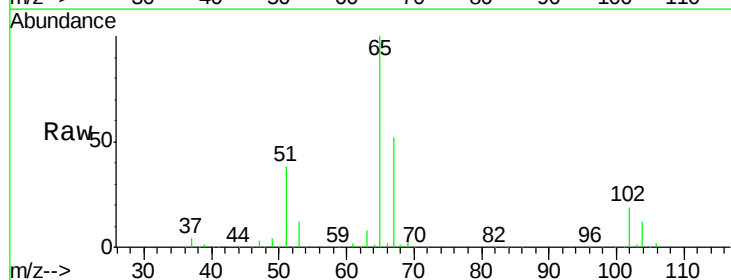
Acq: 28 Jun 2018 14:21

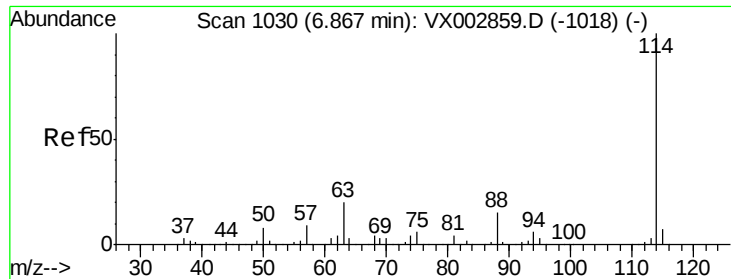
Tgt Ion: 65 Resp: 176415

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

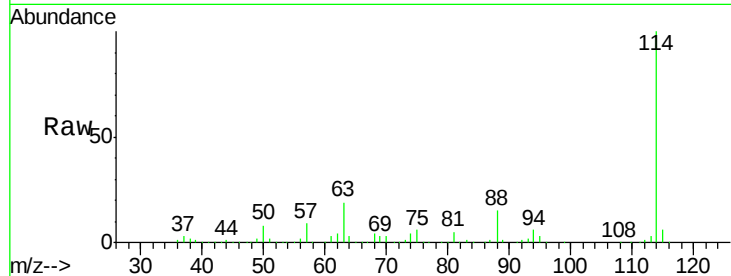
Tot Ion:114 Resp: 375922

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

88 14.5 0.0 30.0



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

200000

150000

100000

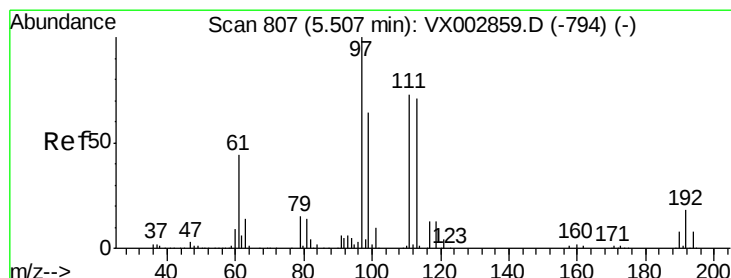
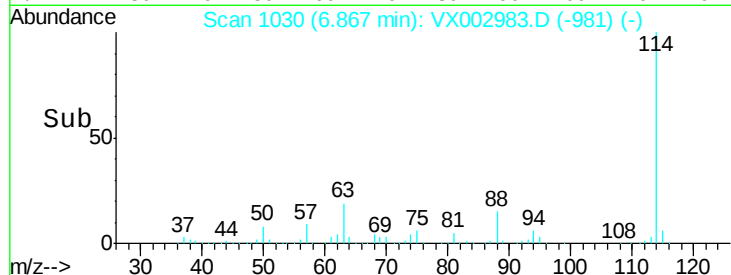
50000

0

6.87

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.60 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

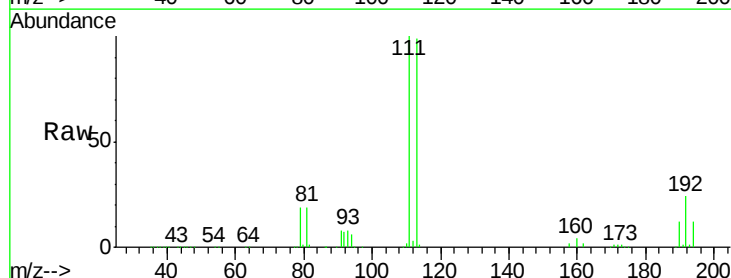
Tgt Ion:113 Resp: 144670

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

192 24.3 19.1 28.7



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

60000

40000

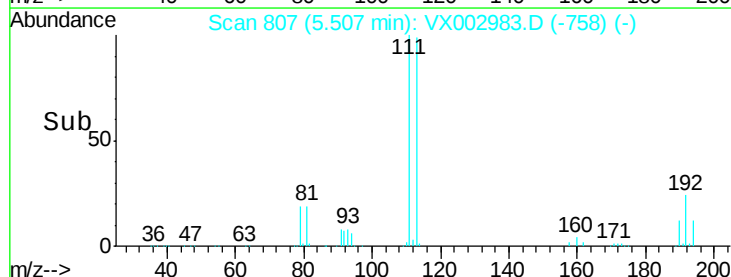
20000

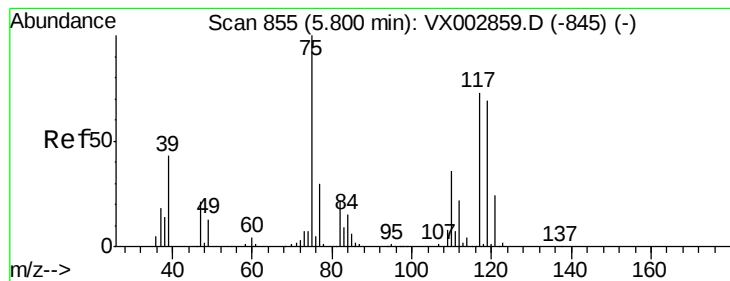
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.39 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

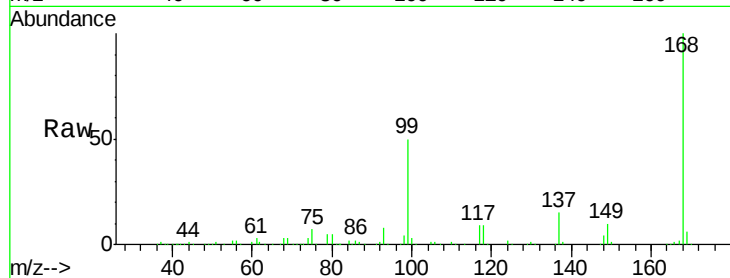
Tot Ion: 75 Resp: 18081

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

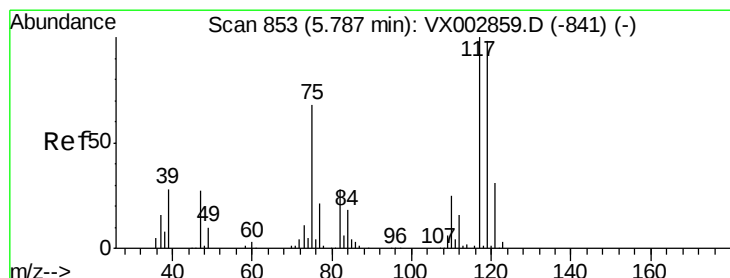
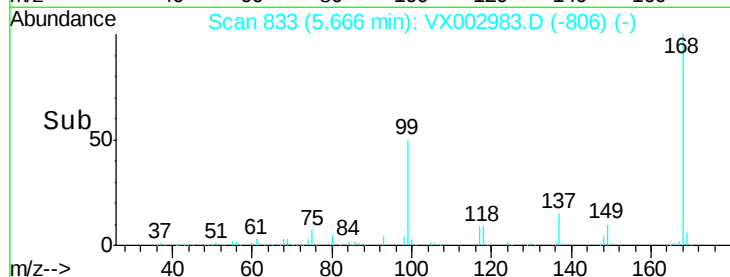
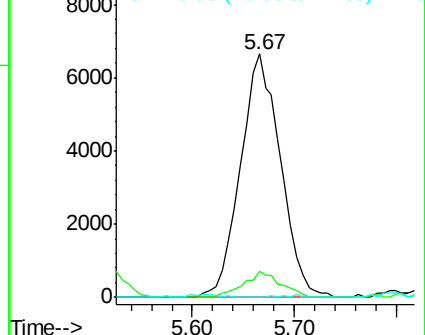
77 0.1 24.3 36.5#



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: 5.46 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

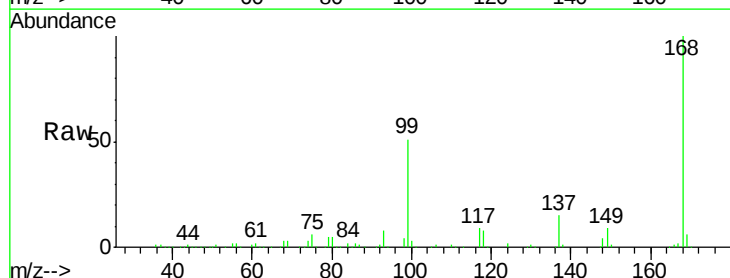
Tgt Ion:117 Resp: 24723

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

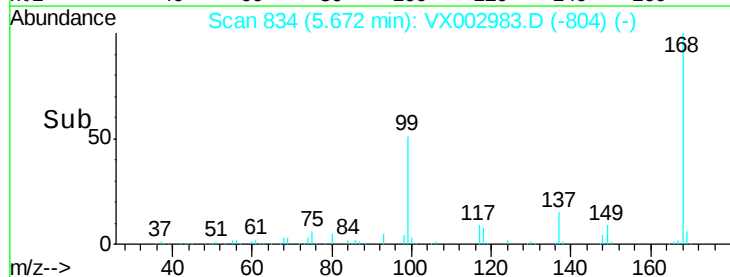
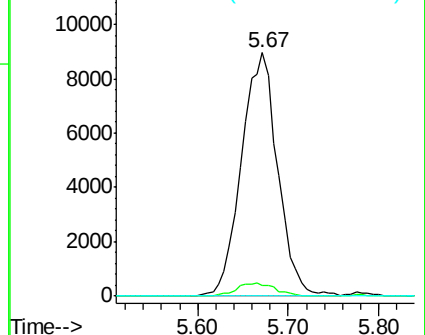
121 0.0 24.4 36.6#

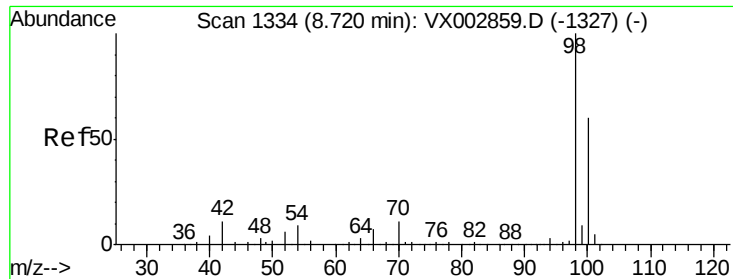


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

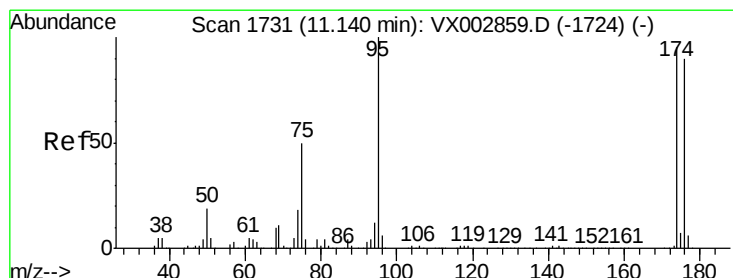
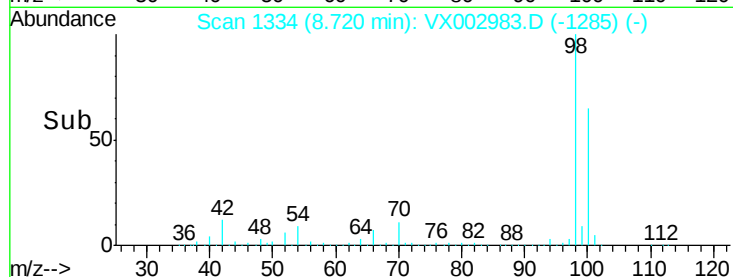
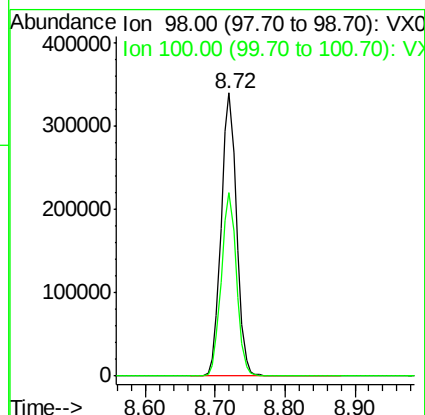
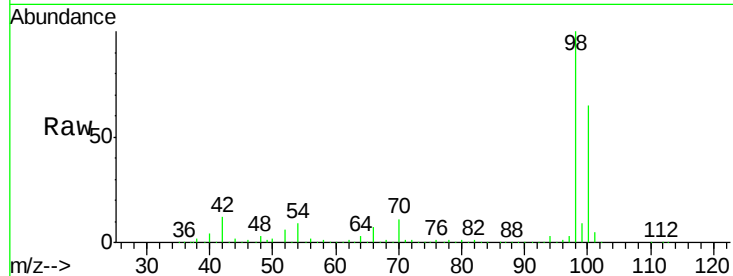




#50
Toluene-d8
Concen: 47.88 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

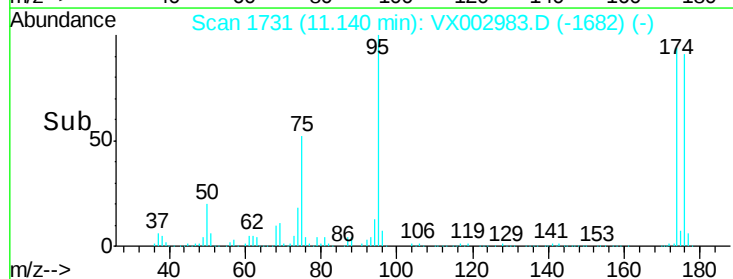
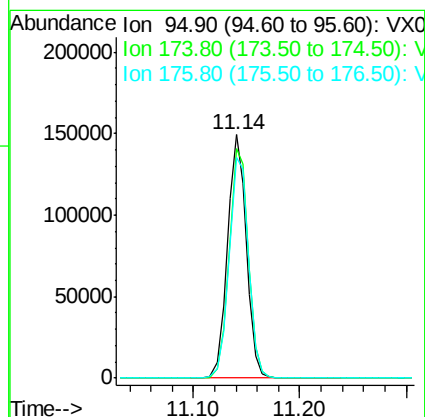
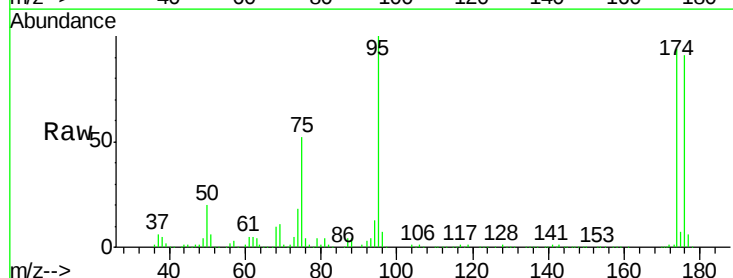
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

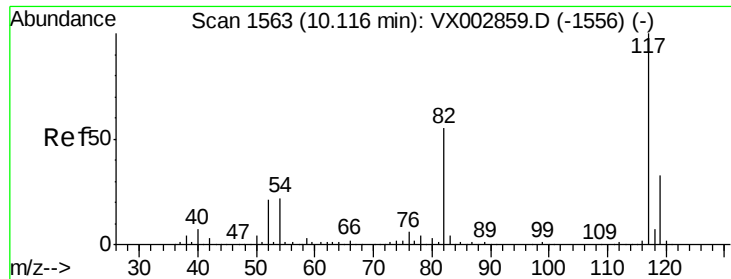
Tot Ion: 98 Resp: 520498
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

Tgt Ion: 95 Resp: 184769
Ion Ratio Lower Upper
95 100
174 96.4 0.0 187.4
176 94.0 0.0 181.0

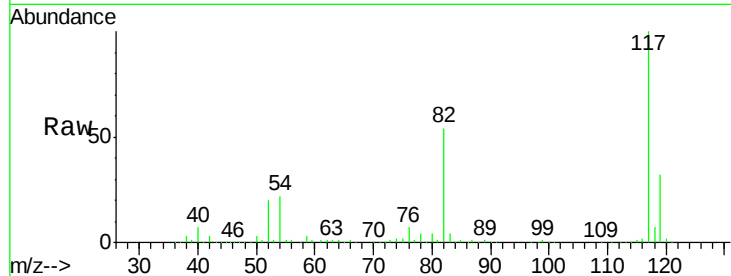




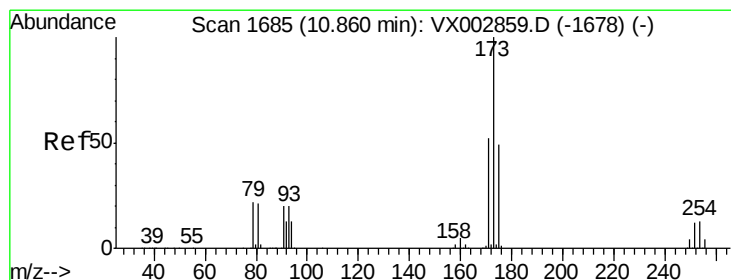
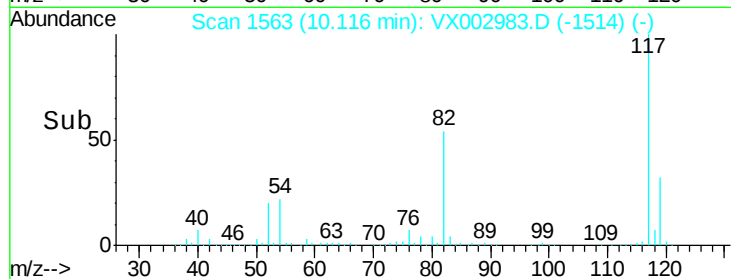
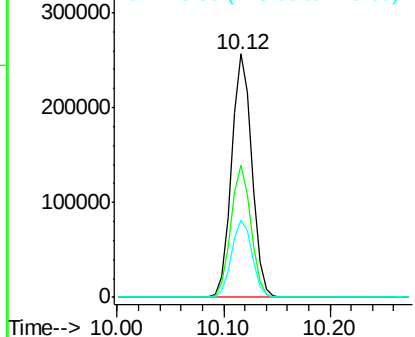
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

Tot Ion:117 Resp: 343755
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 31.8 25.8 38.6

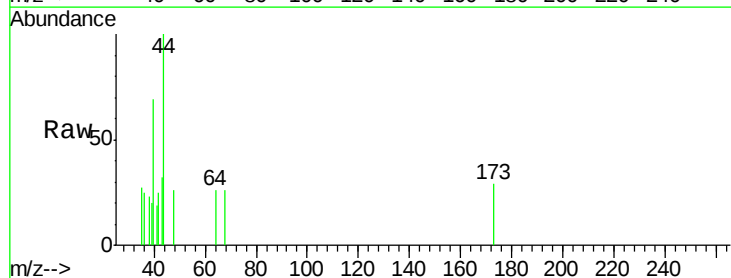


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

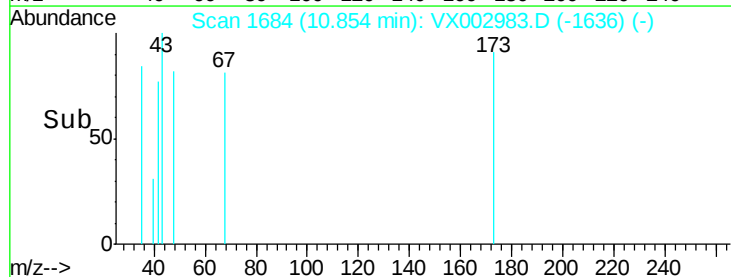
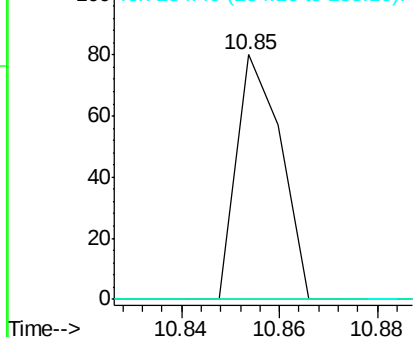


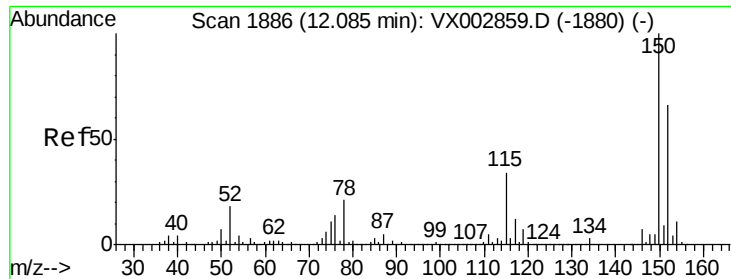
#71
Bromoform
Concen: 3.92 ug/l
RT: 10.85 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

Tgt Ion:173 Resp: 50
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

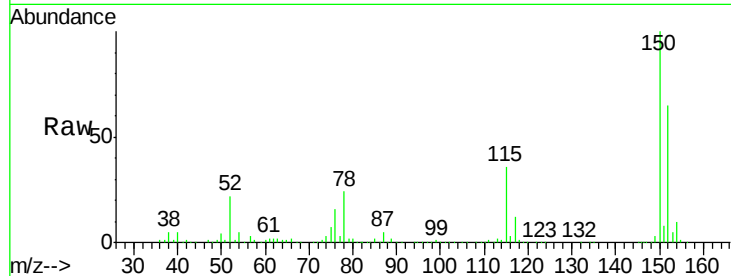
Tot Ion:152 Resp: 193812

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

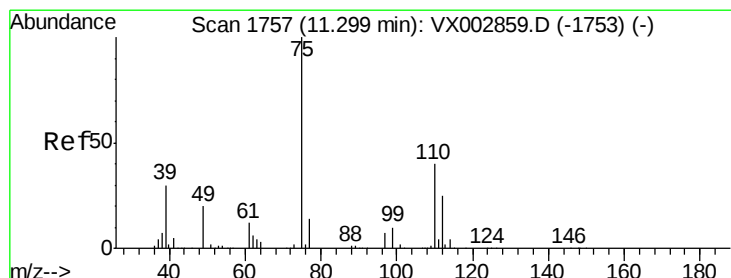
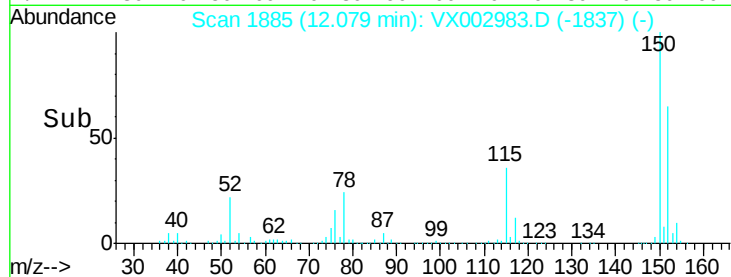
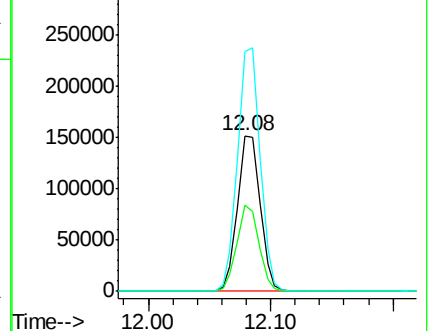
150 156.3 0.0 347.2



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: 27.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002983.D

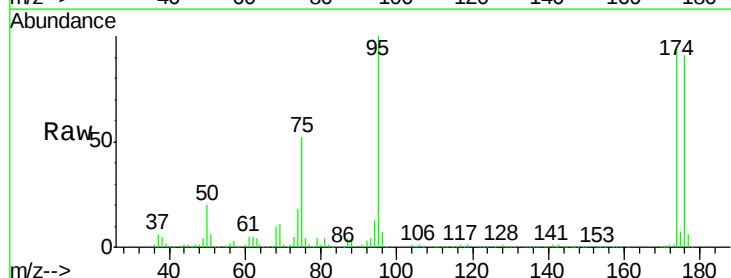
Acq: 28 Jun 2018 14:21

Tgt Ion: 75 Resp: 95026

Ion Ratio Lower Upper

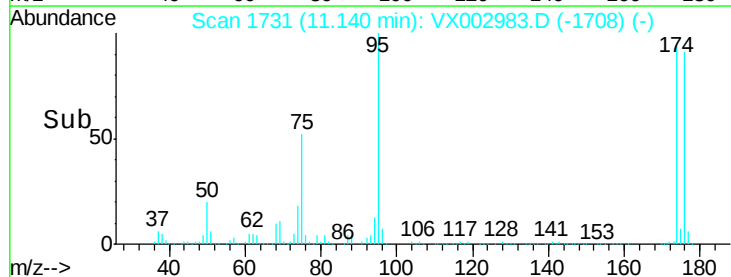
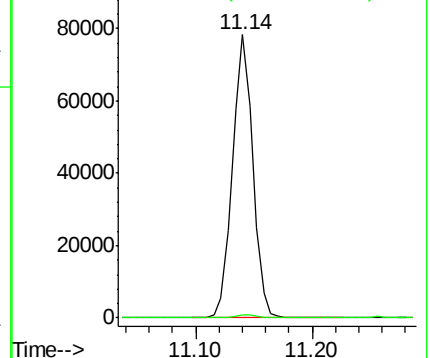
75 100

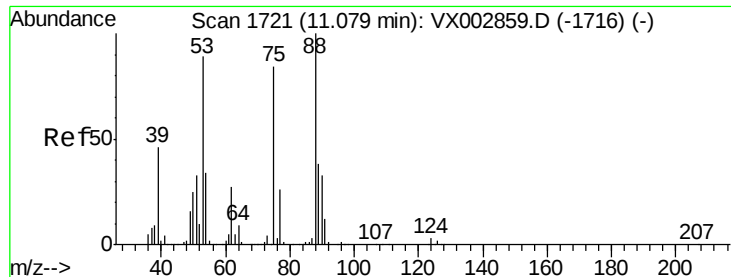
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

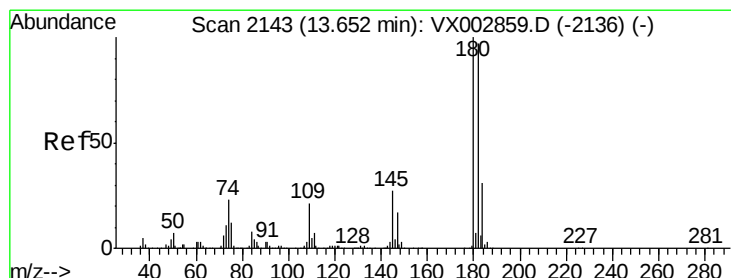
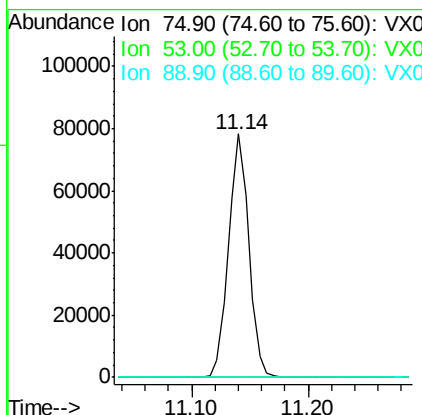
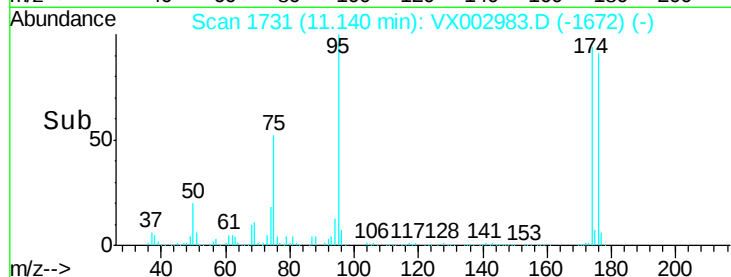
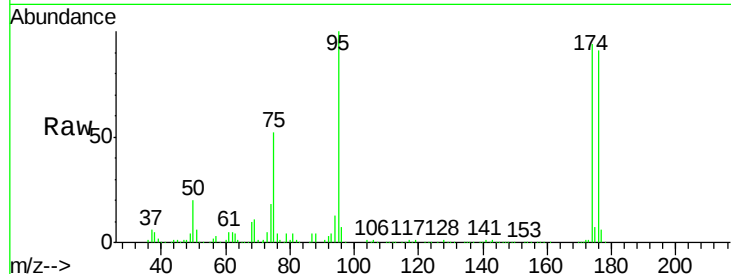




#81
trans-1,4-Dichloro-2-butene
Concen: 76.62 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

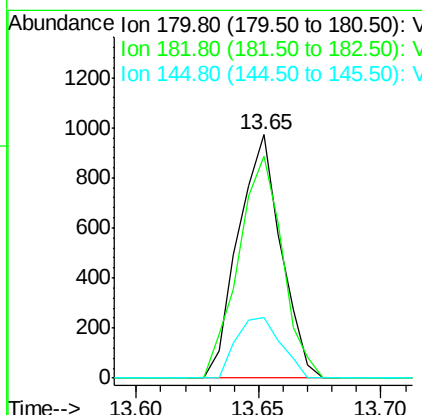
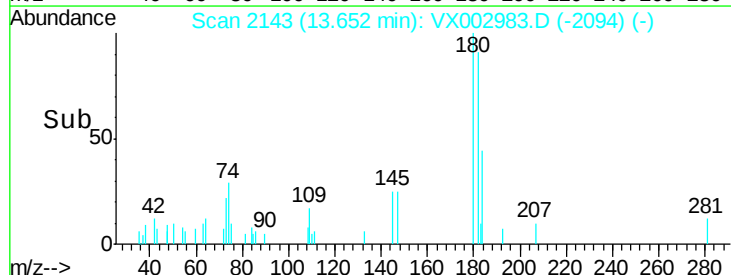
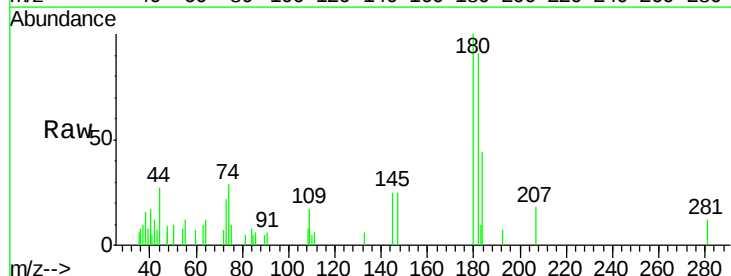
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

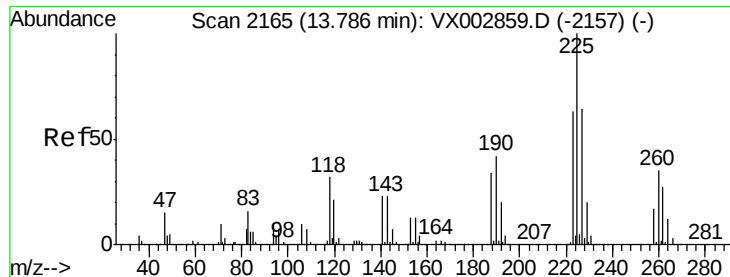
Tot Ion: 75 Resp: 95026
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.24 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. 0.00 min
Lab File: VX002983.D
Acq: 28 Jun 2018 14:21

Tgt Ion: 180 Resp: 1186
Ion Ratio Lower Upper
180 100
182 93.8 47.7 143.1
145 25.8 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.23 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

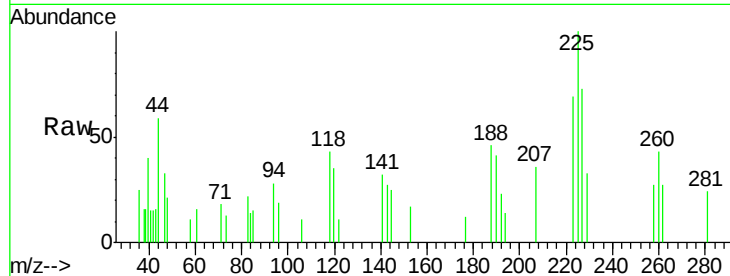
Tot Ion:225 Resp: 570

Ion Ratio Lower Upper

225 100

223 71.1 31.6 95.0

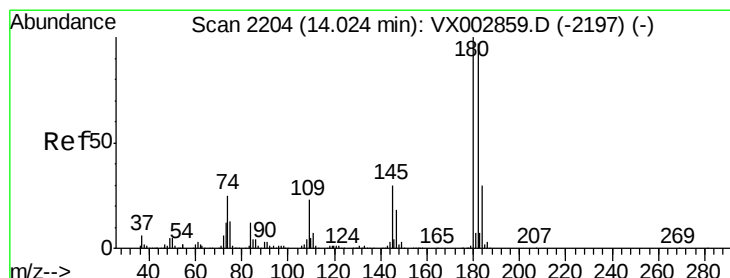
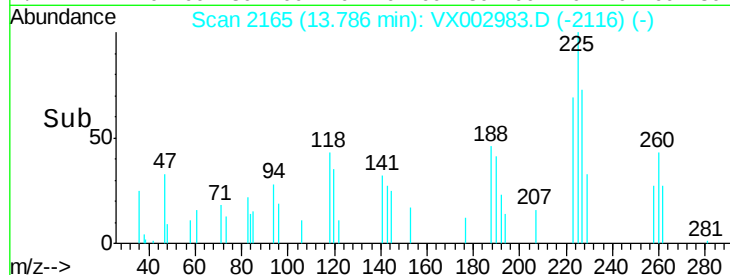
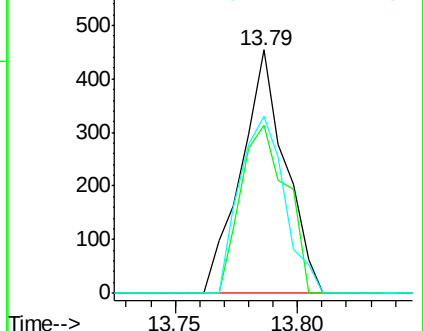
227 74.2 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.21 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX002983.D

Acq: 28 Jun 2018 14:21

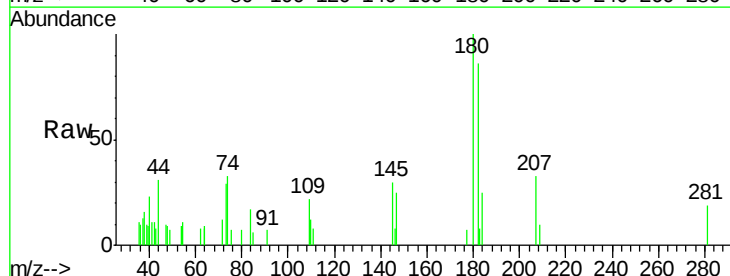
Tgt Ion:180 Resp: 1069

Ion Ratio Lower Upper

180 100

182 80.6 48.0 144.0

145 28.0 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

