

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013644.D
 Acq On : 27 Nov 2019 11:54
 Operator : JC/SP
 Sample : K5983-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Nov 28 00:26:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	675411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1076612	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	958056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	413306	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	387576	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
35) Dibromofluoromethane	5.48	113	327413	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.71	98	1278750	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.13	95	418665	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	

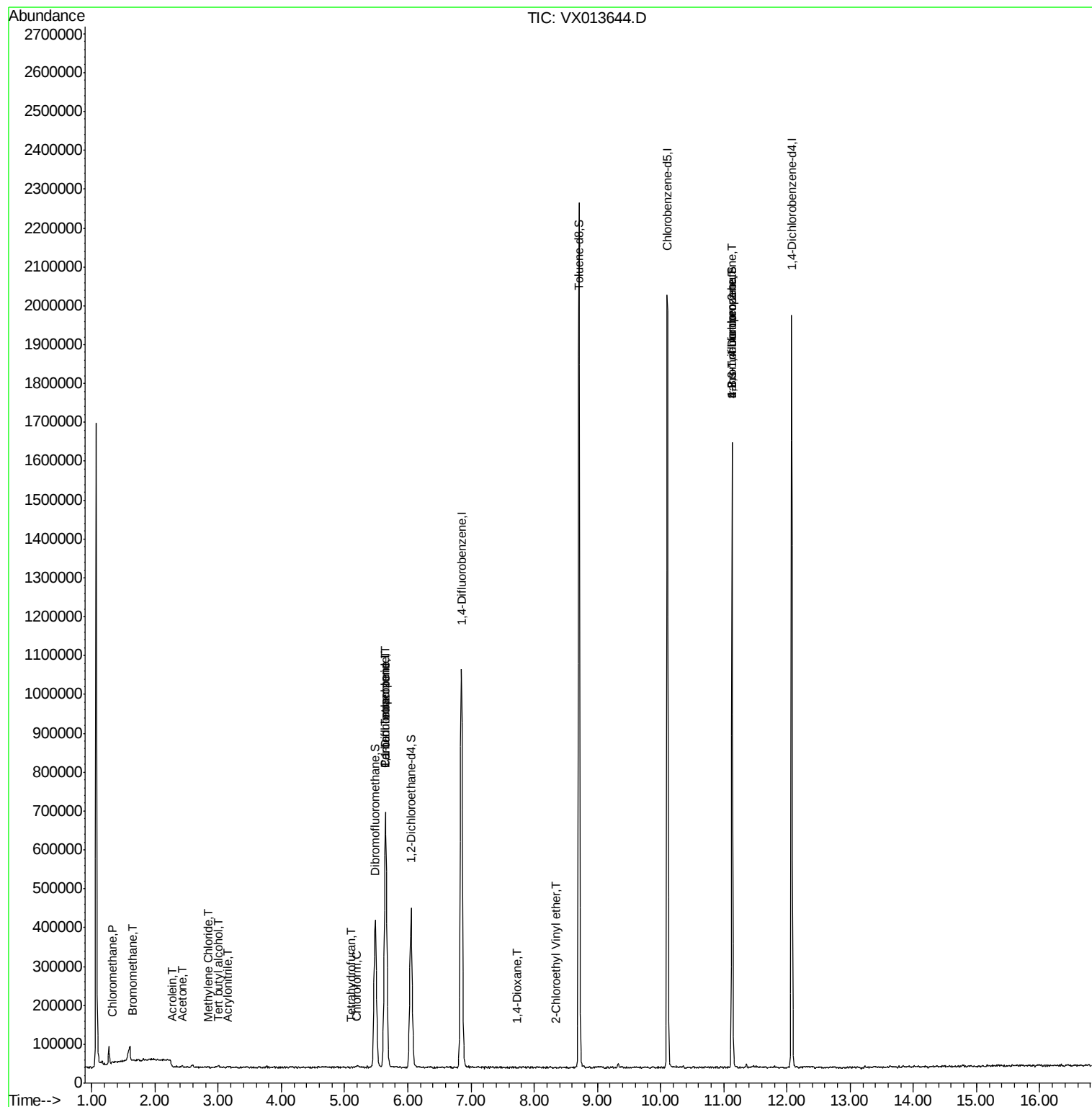
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2831	0.336	ug/l #	88
5) Bromomethane	1.64	94	1907	0.299	ug/l #	69
11) Tert butyl alcohol	3.01	59	5104	2.638	ug/l #	86
13) Acrolein	2.28	56	400	6.305	ug/l #	1
15) Acrylonitrile	3.15	53	1413	0.354	ug/l #	47
16) Acetone	2.42	43	5829	1.506	ug/l #	67
20) Methylene Chloride	2.84	84	1845	0.248	ug/l #	73
29) Tetrahydrofuran	5.11	42	1143	0.322	ug/l #	49
30) Chloroform	5.19	83	5061	0.406	ug/l #	87
36) 1,1-Dichloropropene	5.64	75	46021	4.709	ug/l #	51
38) Carbon Tetrachloride	5.64	117	59819	6.638	ug/l #	14
49) 1,4-Dioxane	7.73	88	237	1.207	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.35	63	952	0.203	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	206400	22.203	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	206400	60.744	ug/l #	11

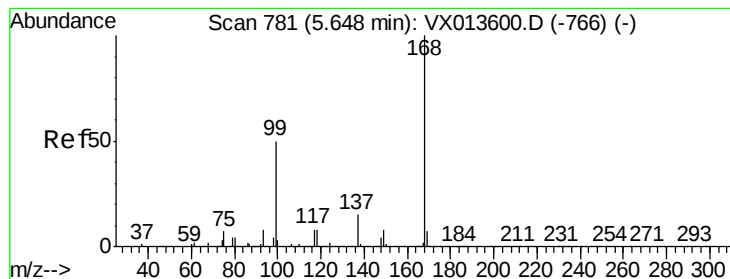
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

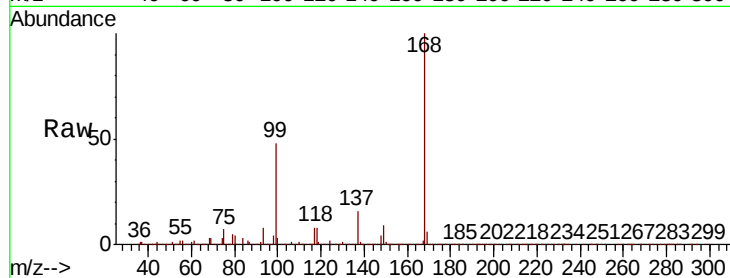
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 675411

Ion Ratio Lower Upper

168 100

99 48.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

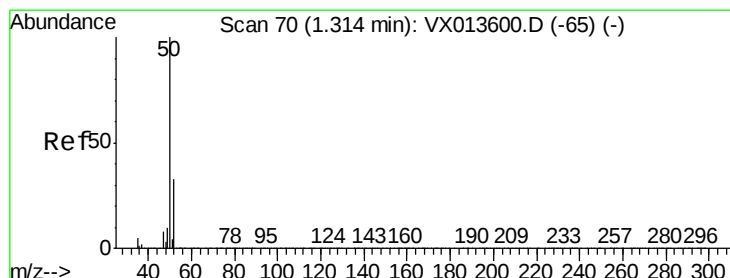
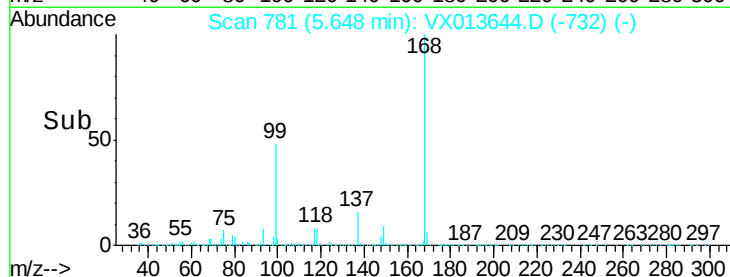
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.336 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013644.D

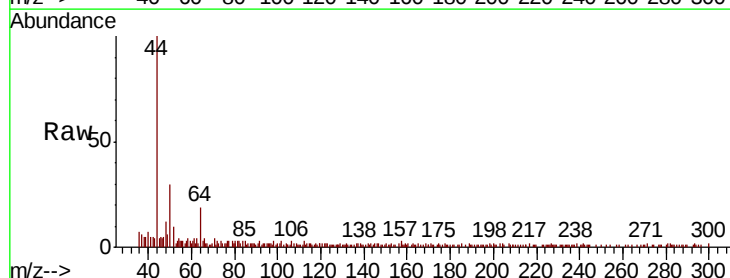
Acq: 27 Nov 2019 11:54

Tgt Ion: 50 Resp: 2831

Ion Ratio Lower Upper

50 100

52 25.8 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

3000

2500

2000

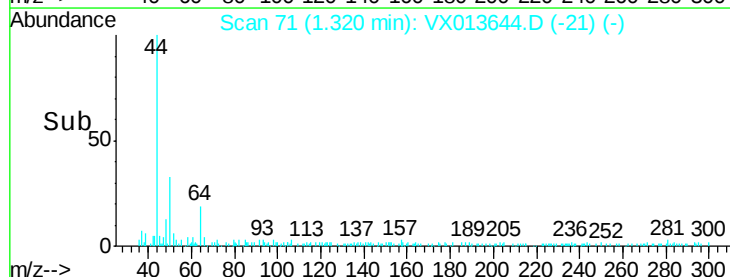
1500

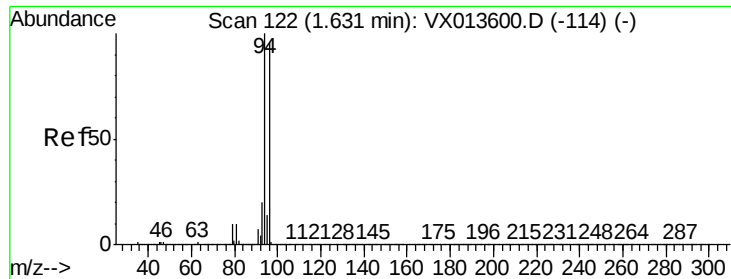
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.299 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

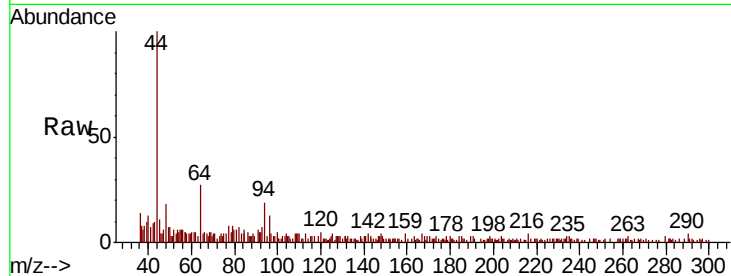
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 1907

Ion Ratio Lower Upper

94 100

96 65.6 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

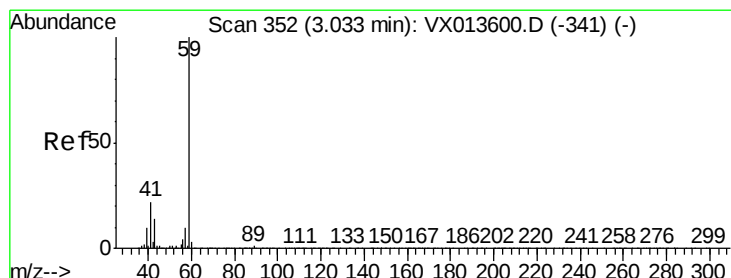
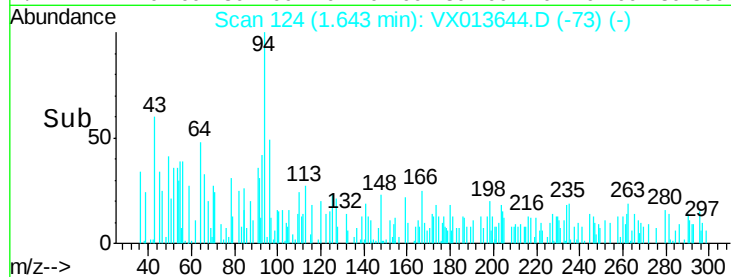
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: 2.638 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013644.D

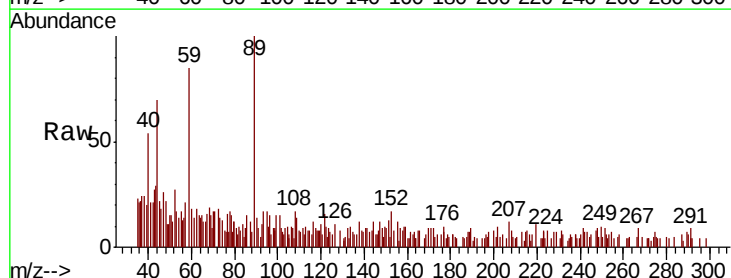
Acq: 27 Nov 2019 11:54

Tgt Ion: 59 Resp: 5104

Ion Ratio Lower Upper

59 100

57 4.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

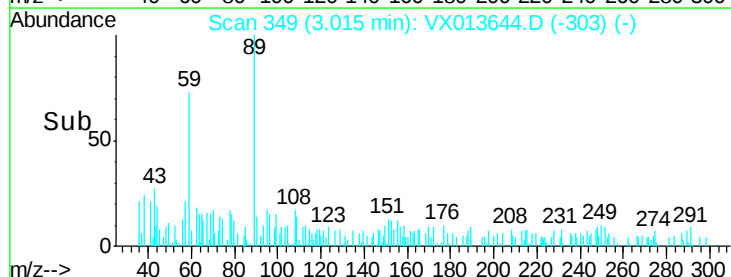
1500

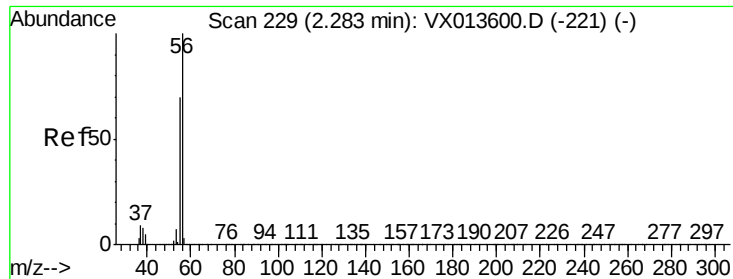
1000

500

0

Time-->





#13

Acrolein

Concen: 6.305 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

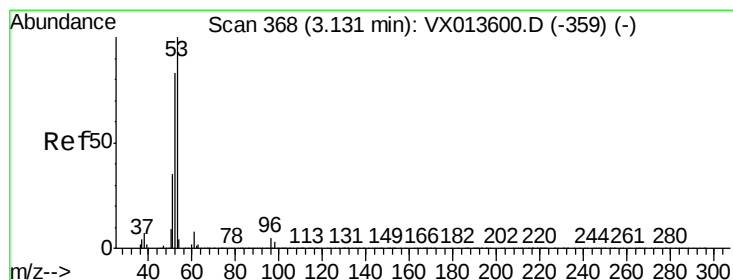
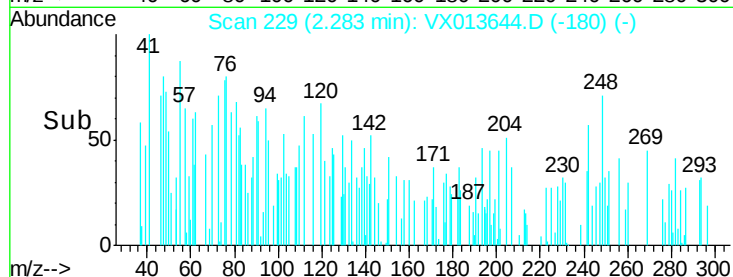
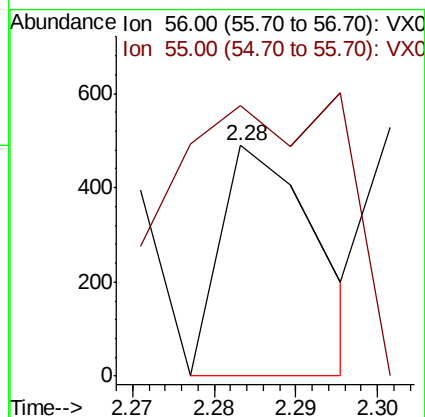
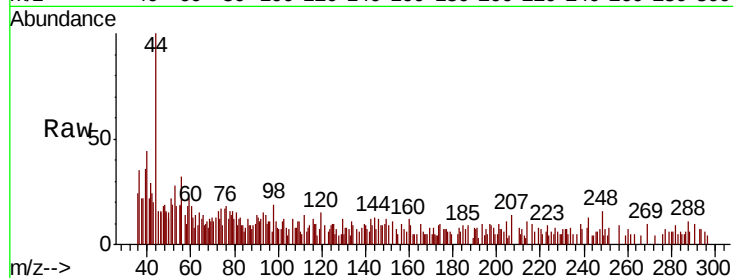
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 400

Ion Ratio Lower Upper

56 100

55 197.3 56.2 84.4#



#15

Acrylonitrile

Concen: 0.354 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

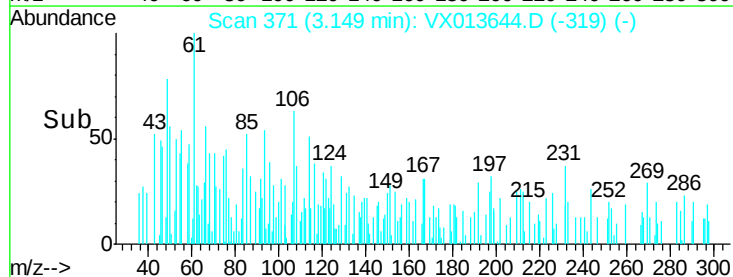
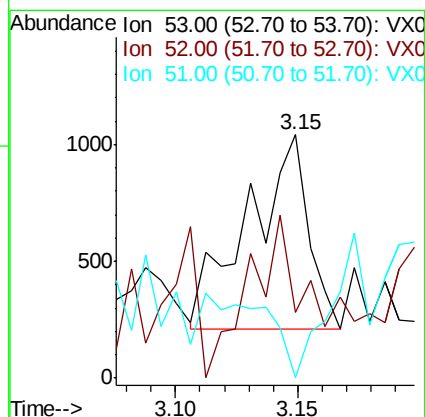
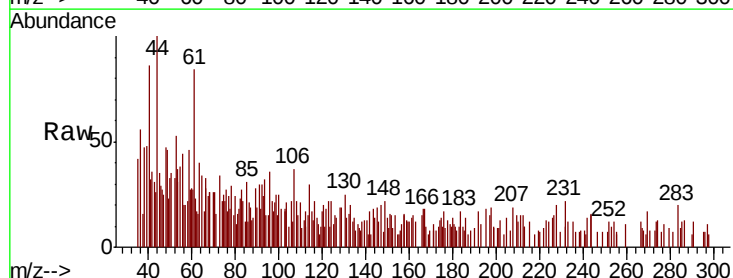
Tgt Ion: 53 Resp: 1413

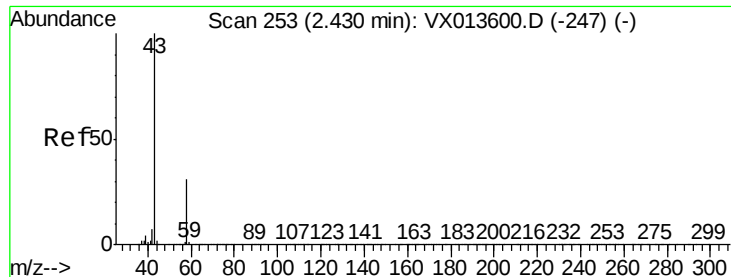
Ion Ratio Lower Upper

53 100

52 38.6 66.2 99.2#

51 0.0 29.0 43.6#

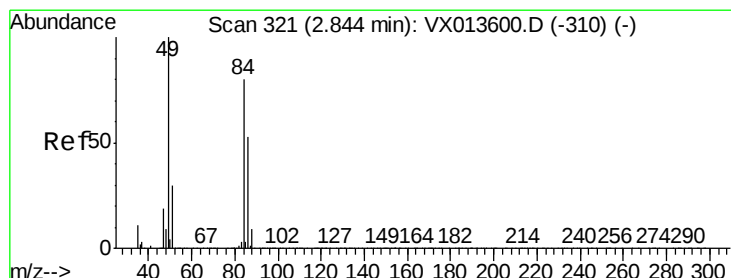
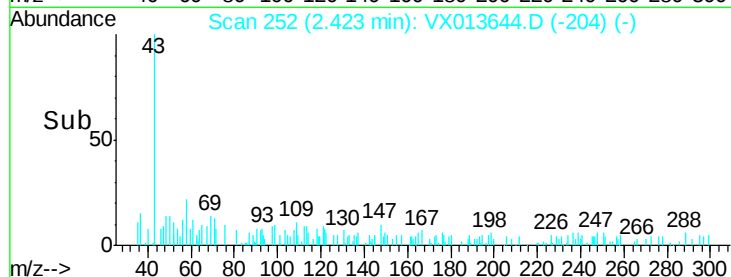
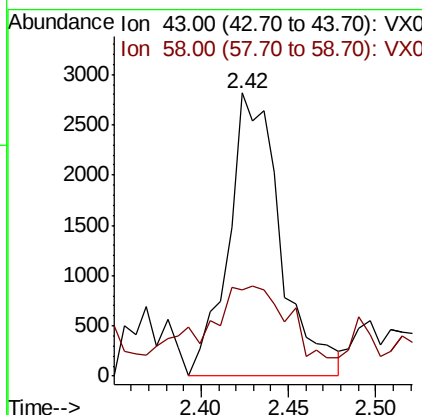
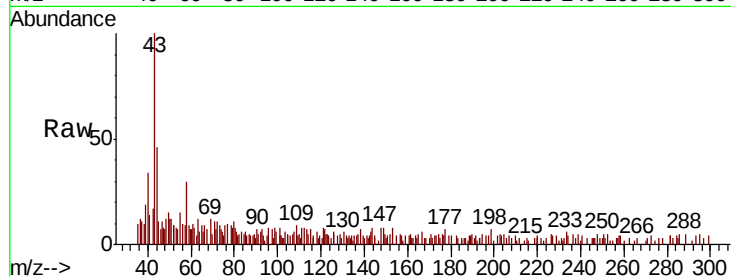




#16
Acetone
Concen: 1.506 ug/l
RT: 2.42 min Scan# 252
Delta R.T. -0.01 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

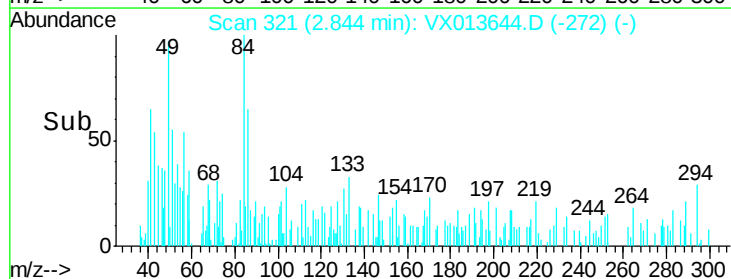
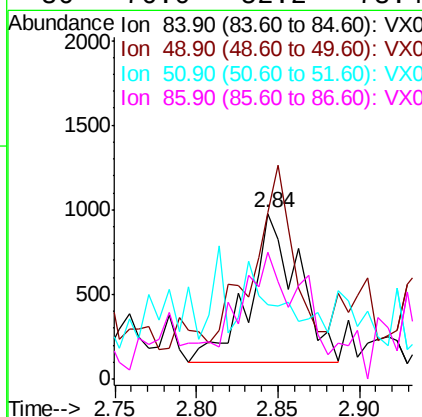
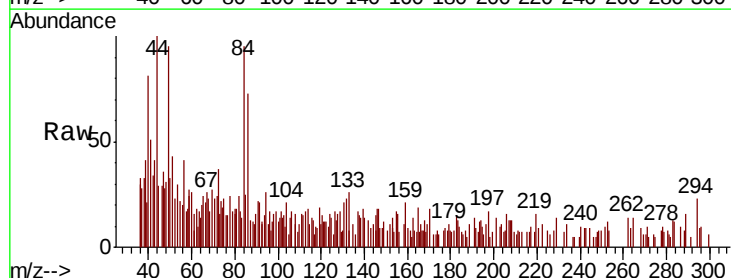
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

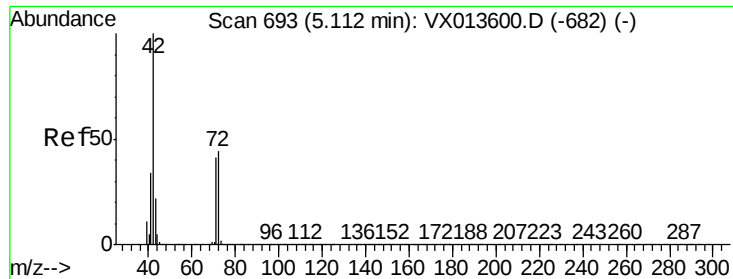
Tot Ion: 43 Resp: 5829
Ion Ratio Lower Upper
43 100
58 12.8 24.6 36.8#



#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

Tgt Ion: 84 Resp: 1845
Ion Ratio Lower Upper
84 100
49 98.7 99.7 149.5#
51 0.0 29.9 44.9#
86 76.0 52.2 78.4

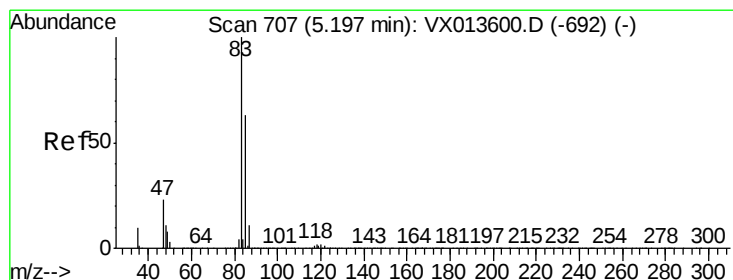
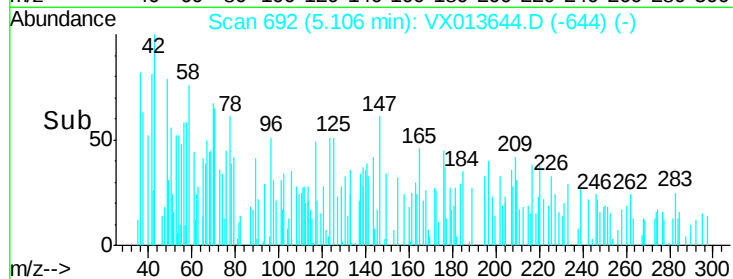
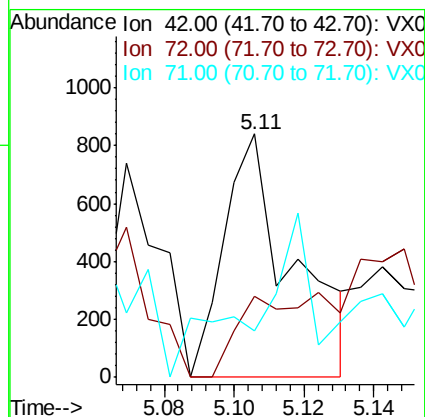
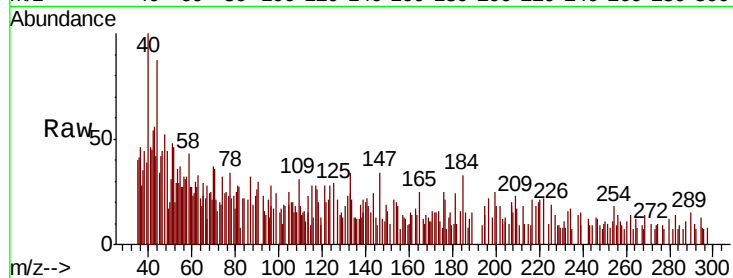




#29
Tetrahydrofuran
Concen: 0.322 ug/l
RT: 5.11 min Scan# 692
Delta R.T. -0.01 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

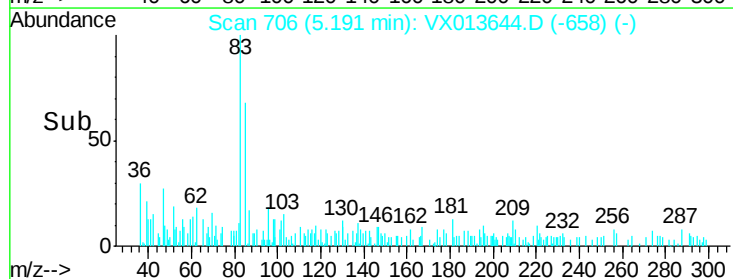
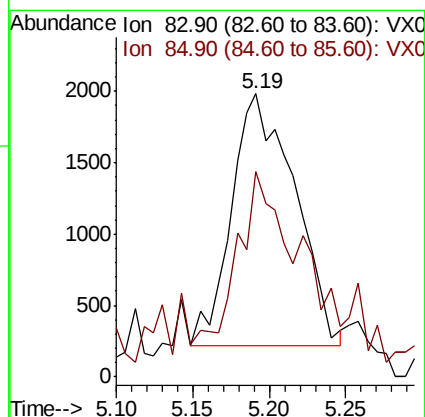
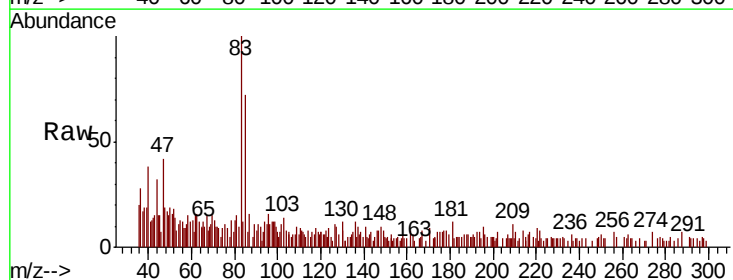
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

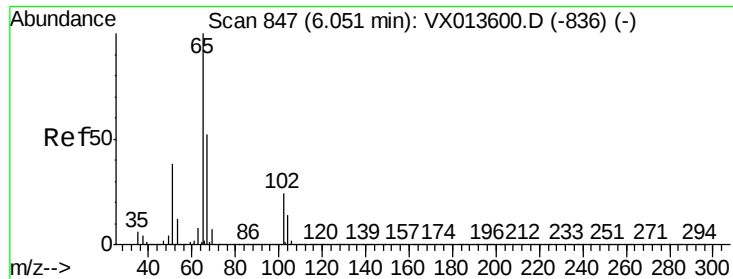
Tot Ion: 42 Resp: 1143
Ion Ratio Lower Upper
42 100
72 0.0 36.3 54.5#
71 61.6 33.2 49.8#



#30
Chloroform
Concen: 0.406 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

Tgt Ion: 83 Resp: 5061
Ion Ratio Lower Upper
83 100
85 72.9 50.2 75.4





#33

1,2-Dichloroethane-d4

Concen: 49.436 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

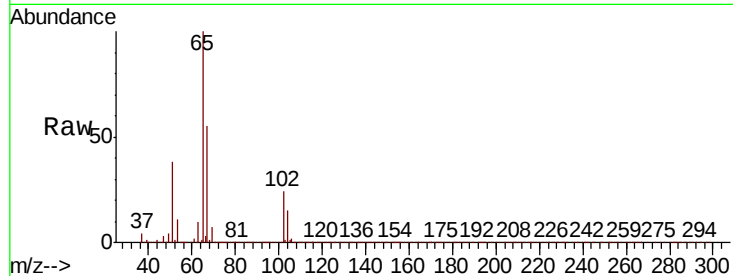
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 65 Resp: 387576

Ion Ratio Lower Upper

65 100

67 53.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

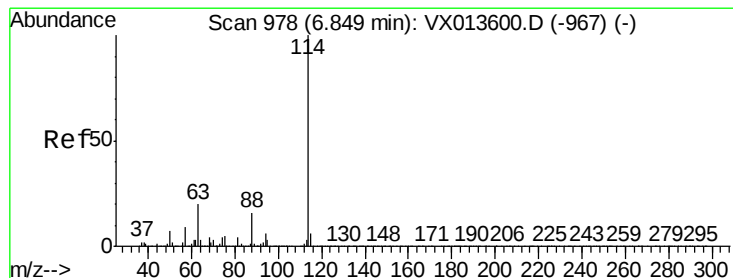
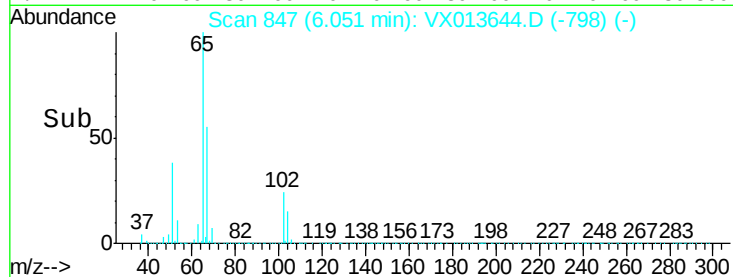
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

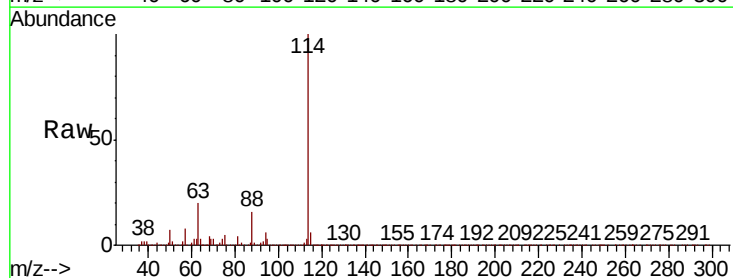
Tgt Ion: 114 Resp: 1076612

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.7 0.0 31.4



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

6.85

600000

500000

400000

300000

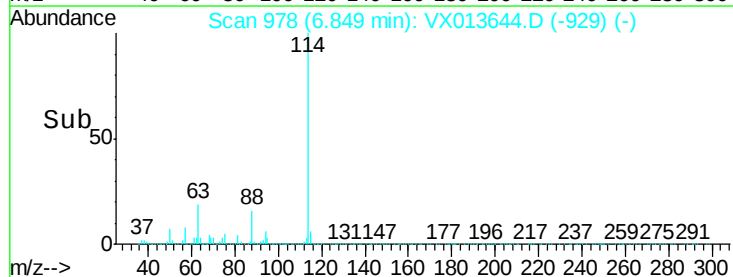
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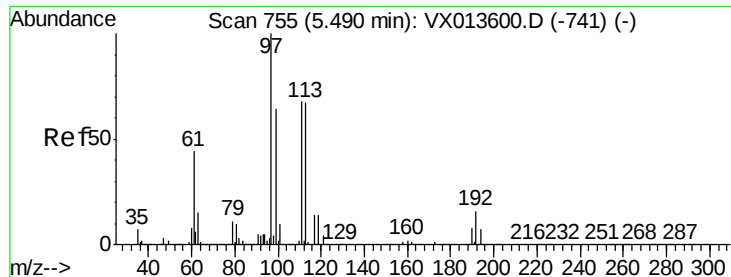
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.193 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

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STORAGE-BLANK-SOIL-REF-6

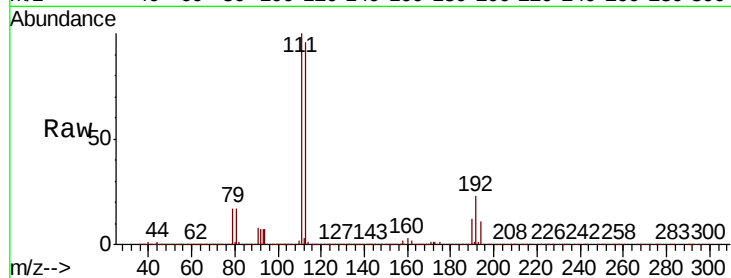
Tot Ion:113 Resp: 327413

Ion Ratio Lower Upper

113 100

111 100.7 83.6 125.4

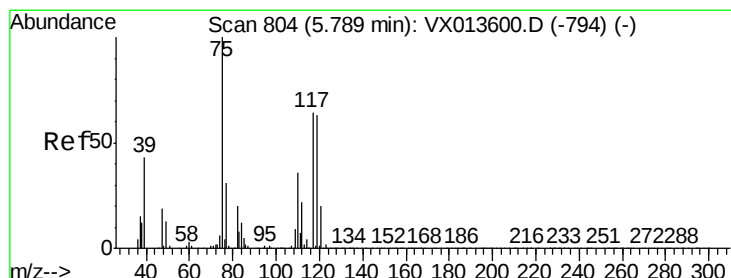
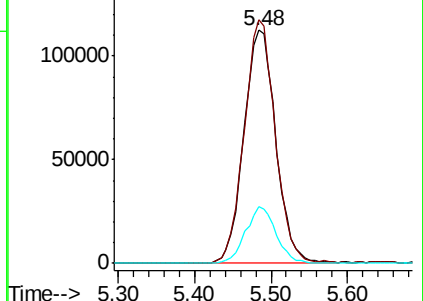
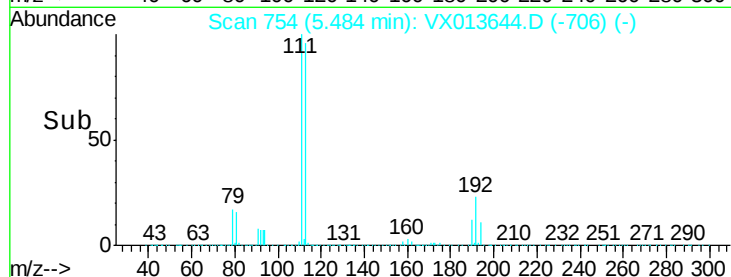
192 22.8 19.2 28.8



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: 4.709 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

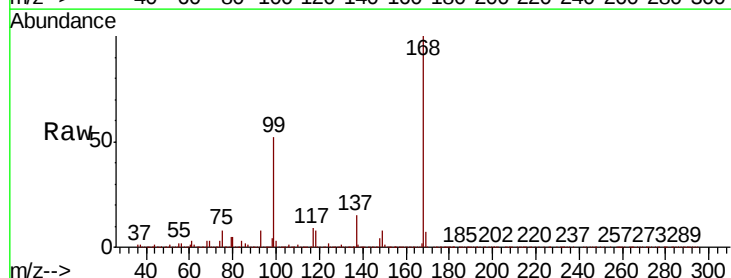
Tgt Ion: 75 Resp: 46021

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.1#

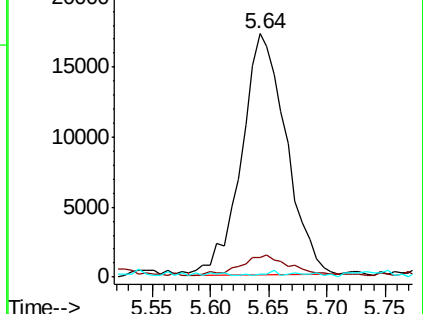
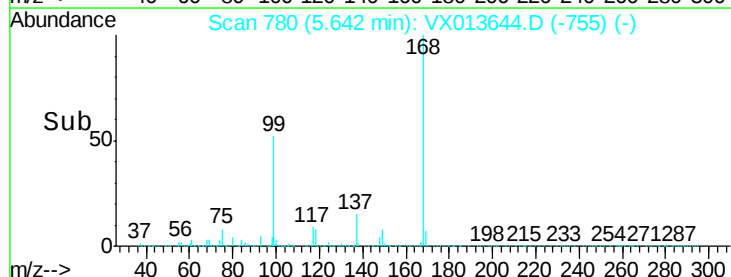
77 0.5 24.5 36.7#

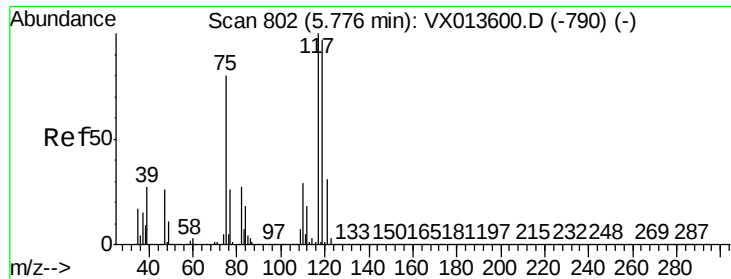


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

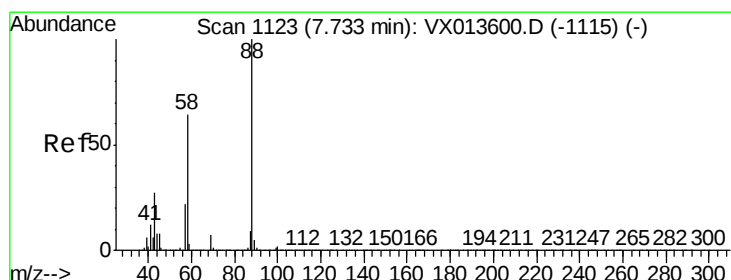
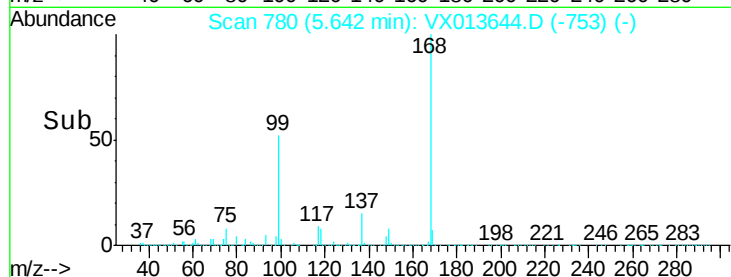
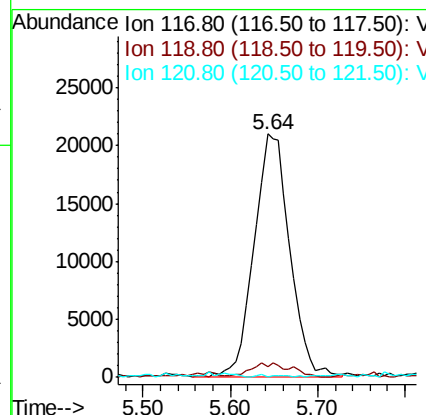
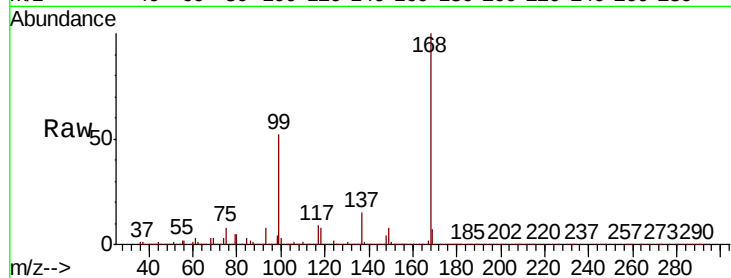




#38
Carbon Tetrachloride
Concen: 6.638 ug/l
RT: 5.64 min Scan# 780
Delta R.T. -0.13 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

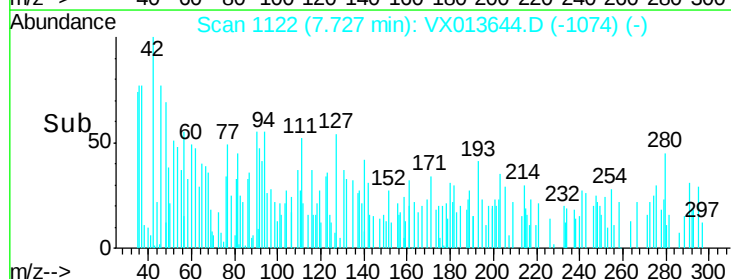
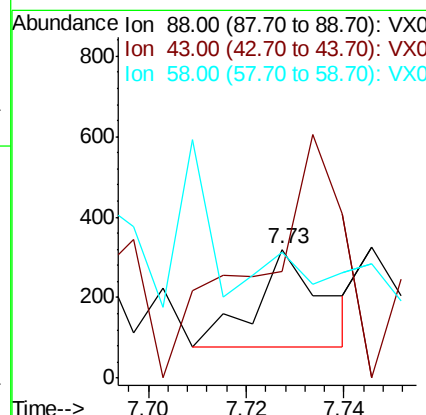
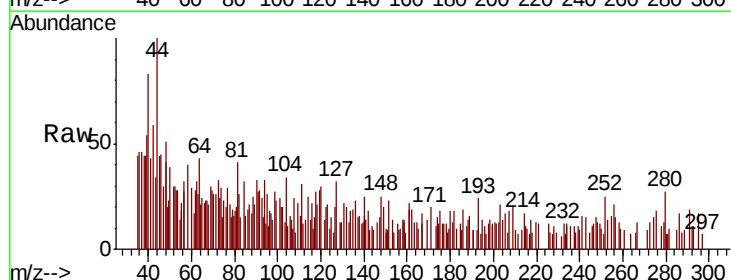
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

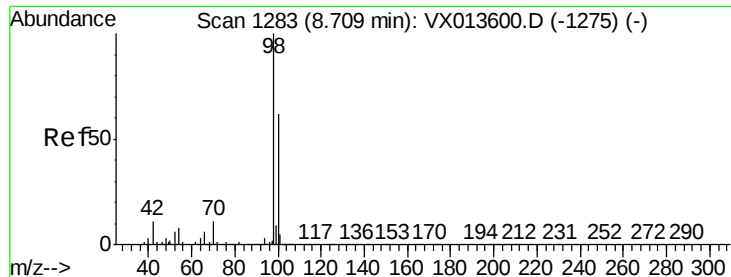
Tot Ion:117 Resp: 59819
Ion Ratio Lower Upper
117 100
119 3.6 77.5 116.3#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: 1.207 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

Tgt Ion: 88 Resp: 237
Ion Ratio Lower Upper
88 100
43 309.7 25.8 38.6#
58 0.0 54.6 82.0#

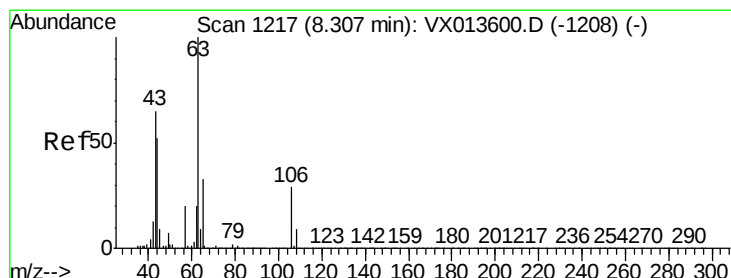
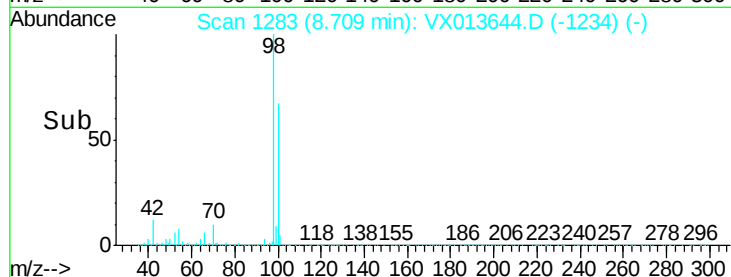
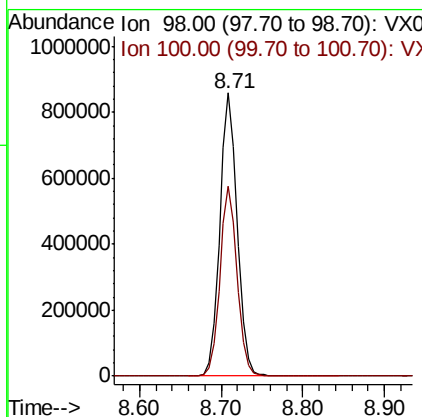
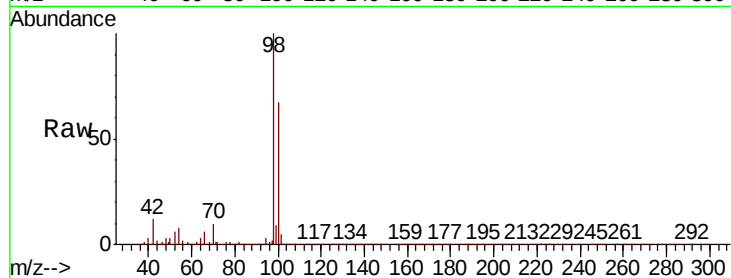




#50
Toluene-d8
Concen: 49.312 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

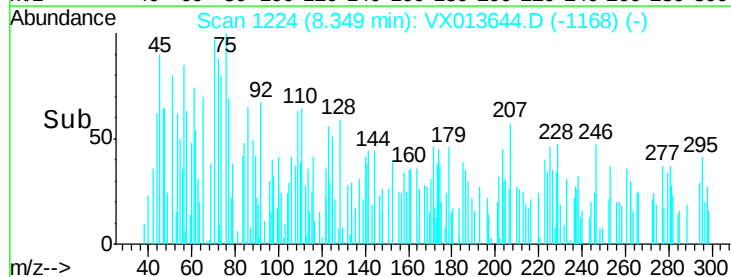
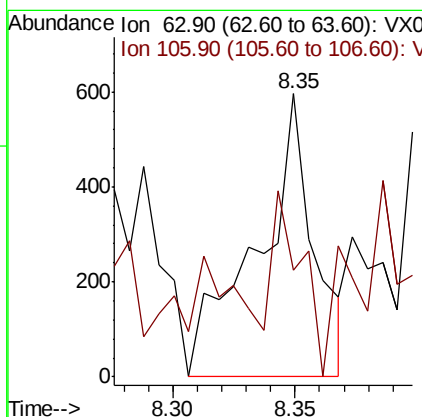
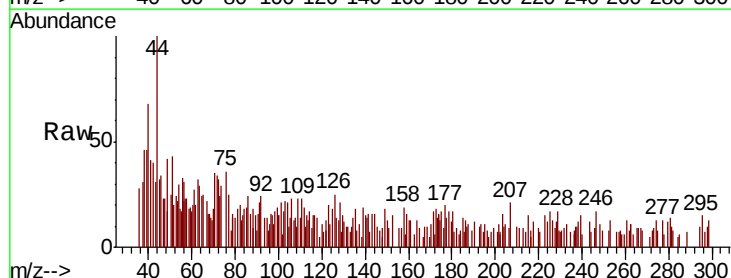
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

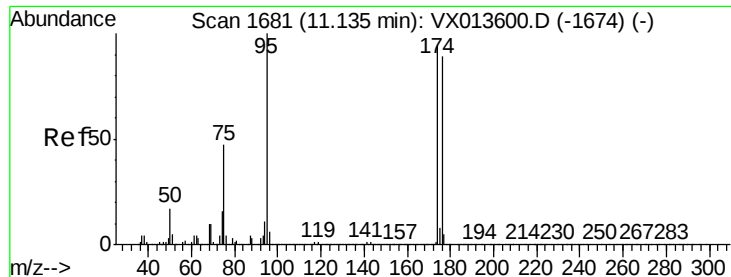
Tot Ion: 98 Resp: 1278750
Ion Ratio Lower Upper
98 100
100 66.1 53.1 79.7



#58
2-Chloroethyl Vinyl ether
Concen: 0.203 ug/l
RT: 8.35 min Scan# 1224
Delta R.T. 0.04 min
Lab File: VX013644.D
Acq: 27 Nov 2019 11:54

Tgt Ion: 63 Resp: 952
Ion Ratio Lower Upper
63 100
106 33.8 23.4 35.0





#62

4-Bromofluorobenzene

Concen: 44.772 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

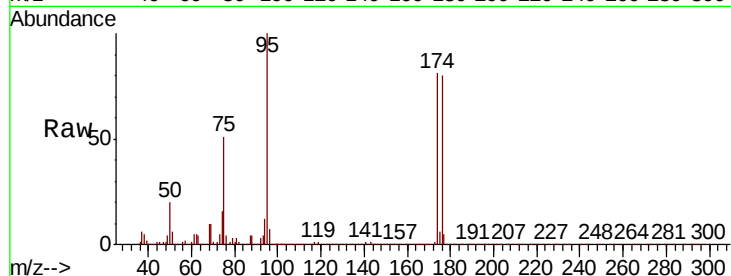
Tot Ion: 95 Resp: 418665

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.0

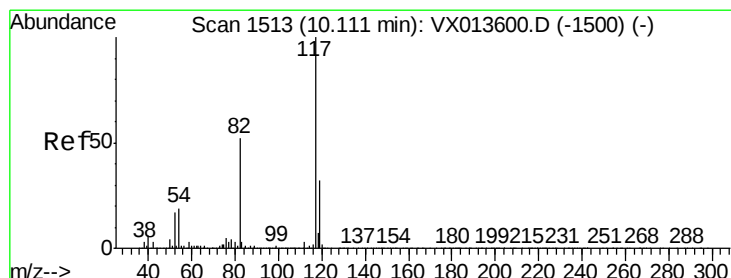
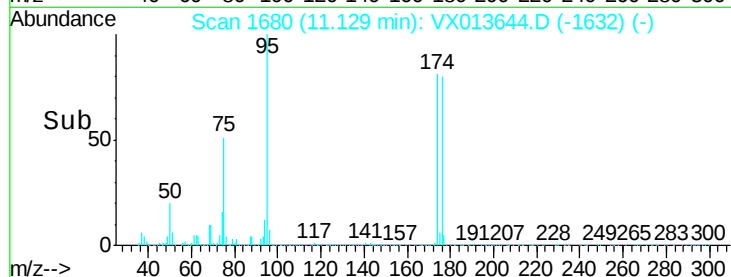
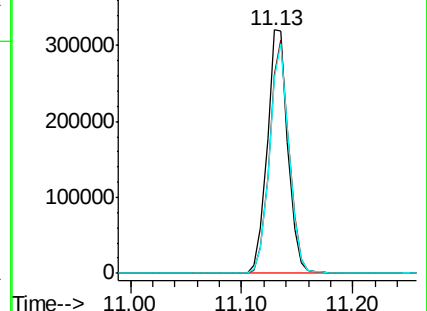
176 88.7 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013644.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013644.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013644.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

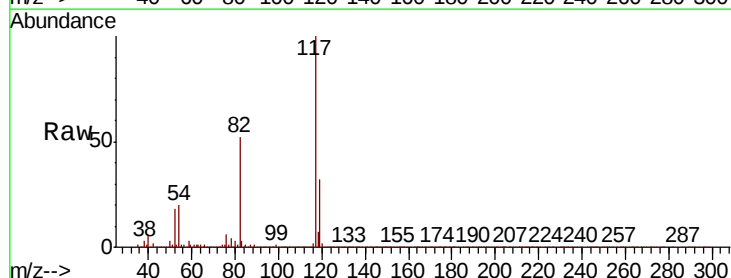
Tgt Ion: 117 Resp: 958056

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

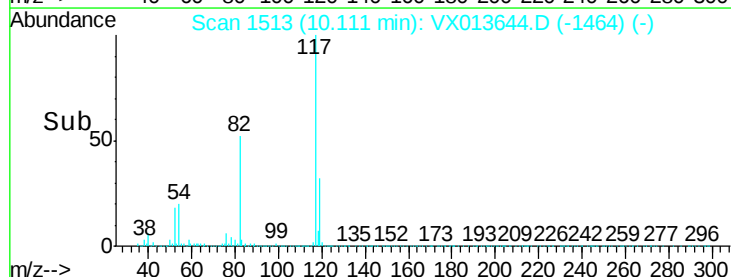
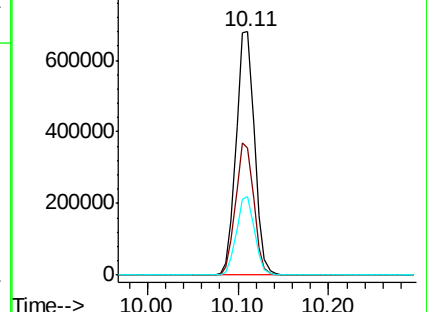
119 32.3 25.8 38.8

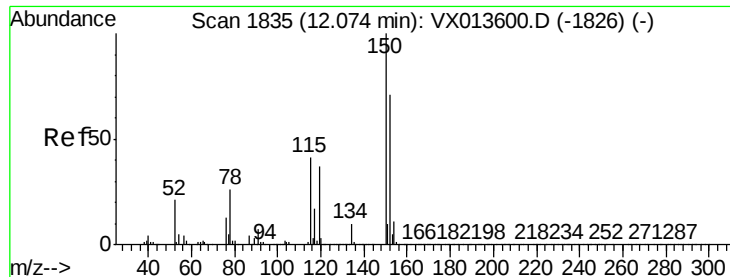


Abundance Ion 116.90 (116.60 to 117.60): VX013644.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013644.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013644.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

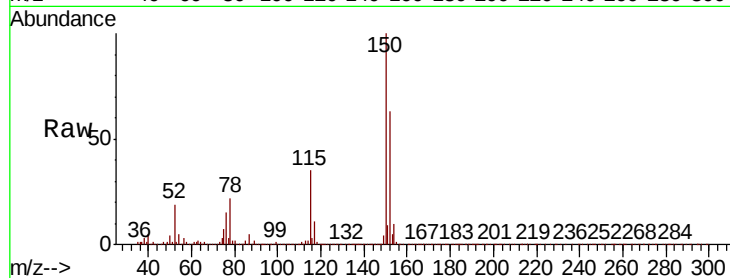
Tot Ion:152 Resp: 413306

Ion Ratio Lower Upper

152 100

115 55.3 38.4 115.1

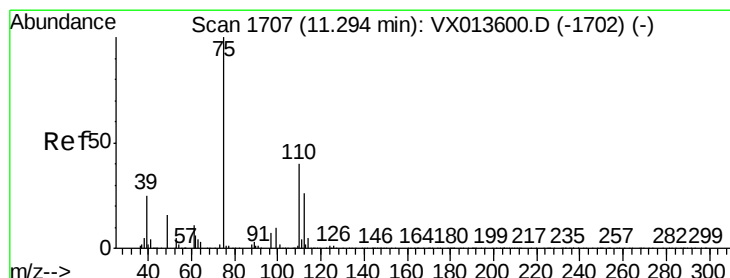
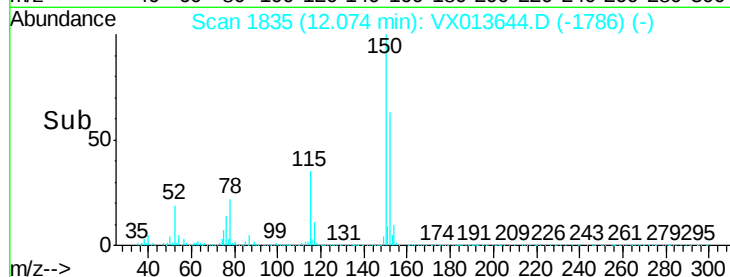
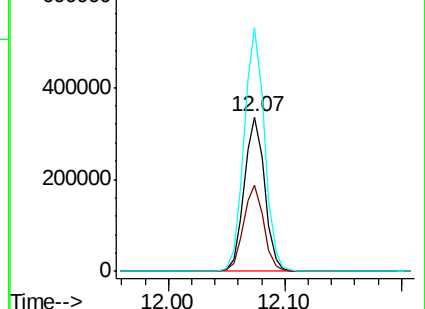
150 157.7 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.203 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013644.D

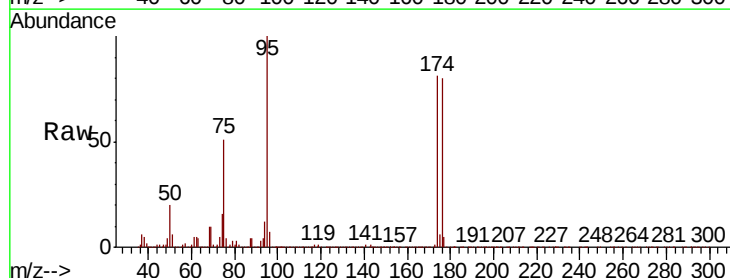
Acq: 27 Nov 2019 11:54

Tgt Ion: 75 Resp: 206400

Ion Ratio Lower Upper

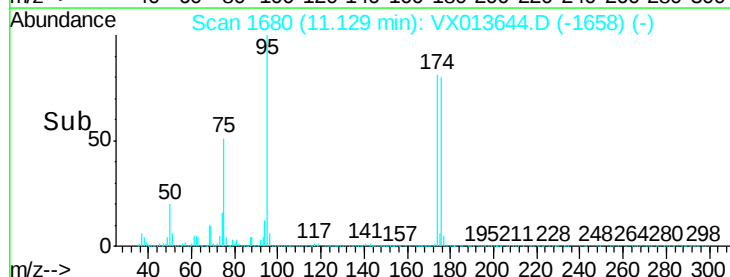
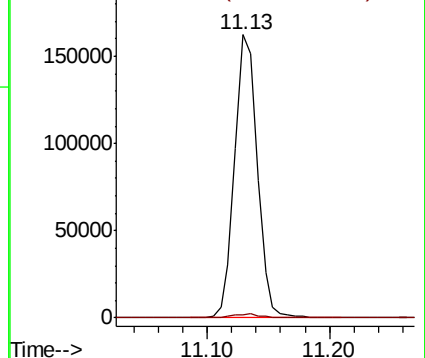
75 100

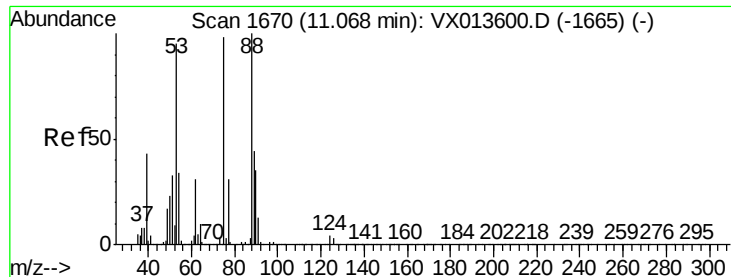
77 1.9 19.1 57.5#



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: 60.744 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013644.D

Acq: 27 Nov 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

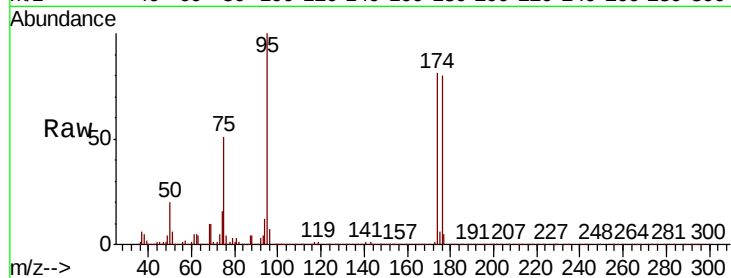
Tot Ion: 75 Resp: 206400

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.1 35.4 53.2#



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

