

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012420\
 Data File : VX014701.D
 Acq On : 24 Jan 2020 16:56
 Operator : JC/SP
 Sample : L1250-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Jan 24 22:33:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	441814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	688615	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	624842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	278369	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	251197	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	5.49	113	209624	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	8.71	98	822077	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	11.13	95	276935	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	

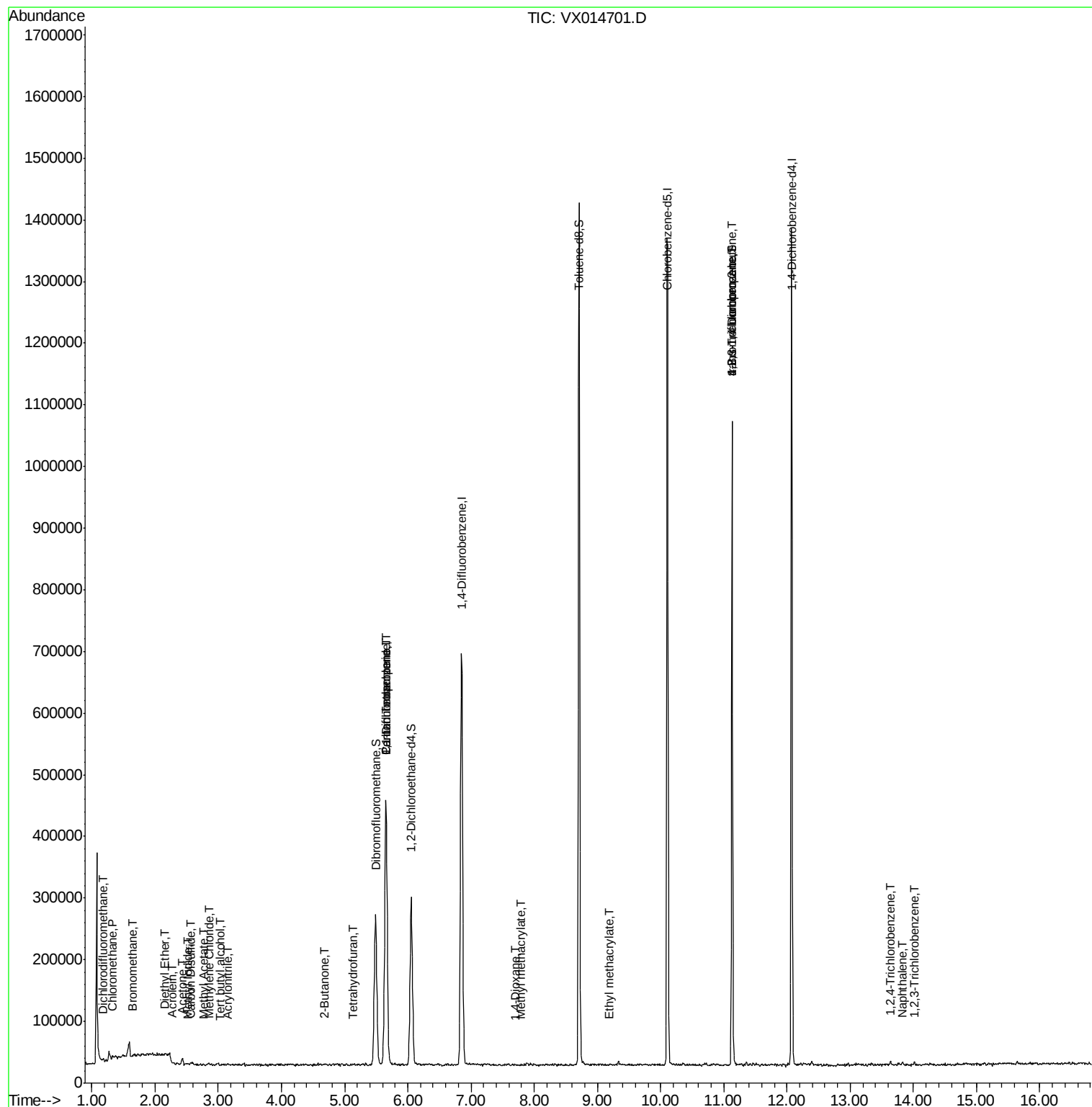
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	536	0.621	ug/l #	42
3) Chloromethane	1.32	50	2632	0.440	ug/l	99
5) Bromomethane	1.64	94	1997	0.455	ug/l	90
6) Chloroethane	1.72	64	263	Below Cal	#	43
8) Diethyl Ether	2.15	74	850	0.259	ug/l	65
10) Methyl Iodide	2.51	142	2972	0.513	ug/l #	84
11) Tert butyl alcohol	3.03	59	382	0.330	ug/l #	1
13) Acrolein	2.28	56	489	0.535	ug/l #	19
15) Acrylonitrile	3.14	53	606	0.226	ug/l #	46
16) Acetone	2.43	43	13432	4.898	ug/l #	85
17) Carbon Disulfide	2.56	76	2680	0.223	ug/l	97
18) Methyl Acetate	2.76	43	1807	0.224	ug/l #	71
20) Methylene Chloride	2.85	84	2002	0.383	ug/l #	75
25) 2-Butanone	4.68	43	3440	0.849	ug/l #	80
29) Tetrahydrofuran	5.12	42	675	0.281	ug/l #	62
36) 1,1-Dichloropropene	5.65	75	30777	4.810	ug/l #	50
38) Carbon Tetrachloride	5.65	117	39598	6.480	ug/l #	15
41) Methacrylonitrile	5.04	41	1045	Below Cal	#	48
48) Methyl methacrylate	7.78	41	1319	0.230	ug/l #	22
49) 1,4-Dioxane	7.71	88	462	3.801	ug/l #	58
56) Ethyl methacrylate	9.18	69	458	1.837	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	135480	20.919	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	135480	59.531	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	1486	0.246	ug/l #	89
95) Naphthalene	13.83	128	4436	1.155	ug/l #	78
96) 1,2,3-Trichlorobenzene	14.01	180	1542	0.252	ug/l #	78

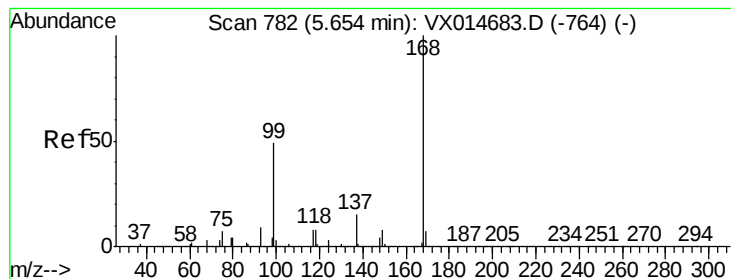
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX012420\
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Quant Title : SW846 8260
QLast Update : Wed Jan 22 12:35:15 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

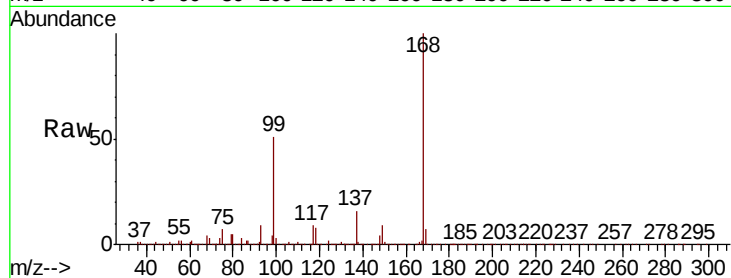
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 441814

Ion Ratio Lower Upper

168 100

99 50.5 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

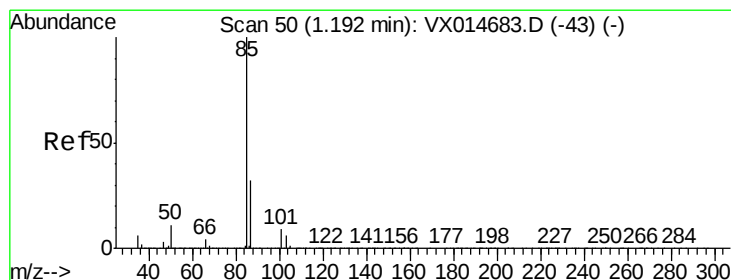
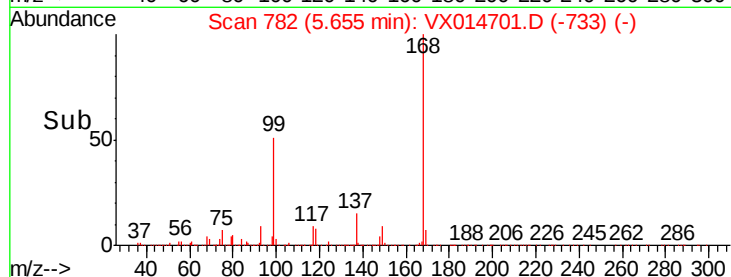
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.621 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.01 min

Lab File: VX014701.D

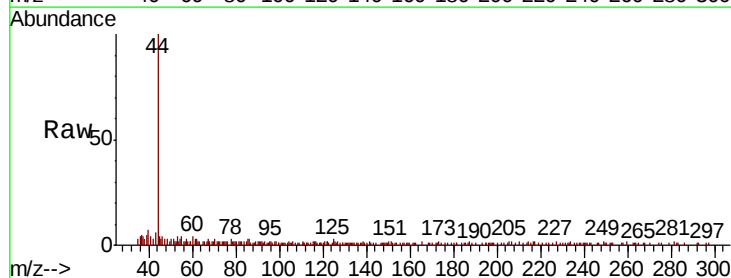
Acq: 24 Jan 2020 16:56

Tgt Ion: 85 Resp: 536

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

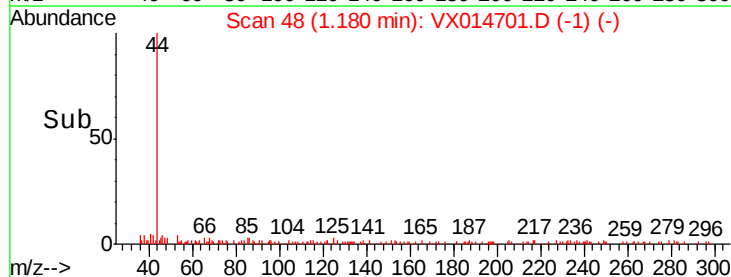
300

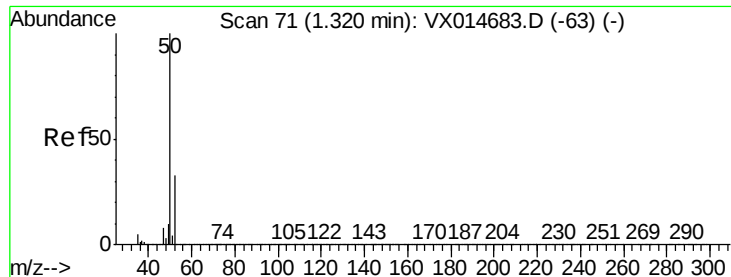
200

100

0

Time-->





#3

Chloromethane

Concen: 0.440 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

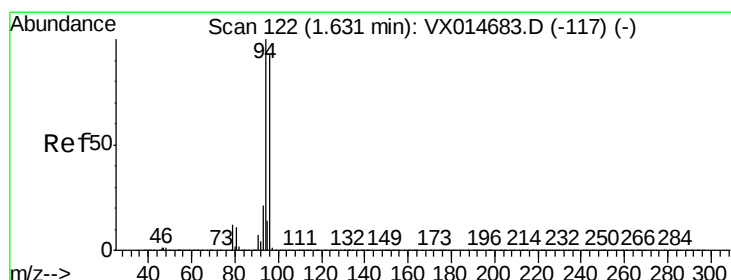
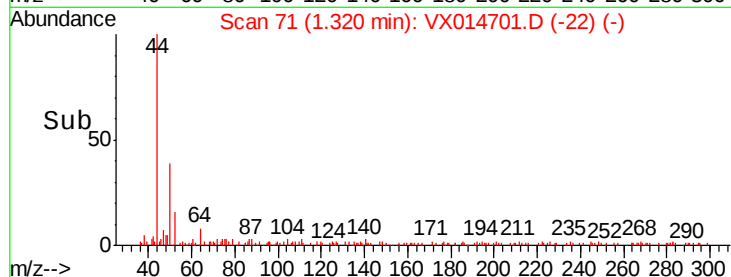
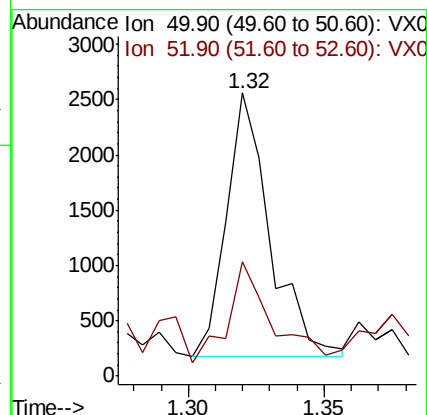
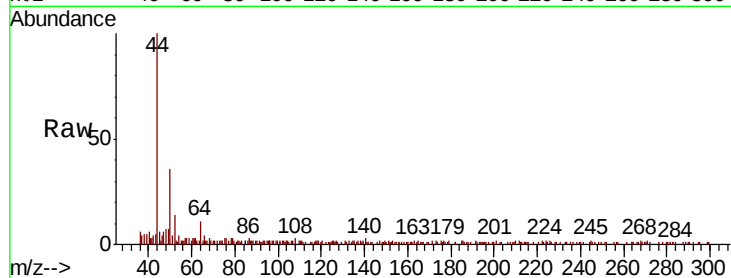
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 50 Resp: 2632

Ion Ratio Lower Upper

50 100

52 33.3 26.2 39.2



#5

Bromomethane

Concen: 0.455 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014701.D

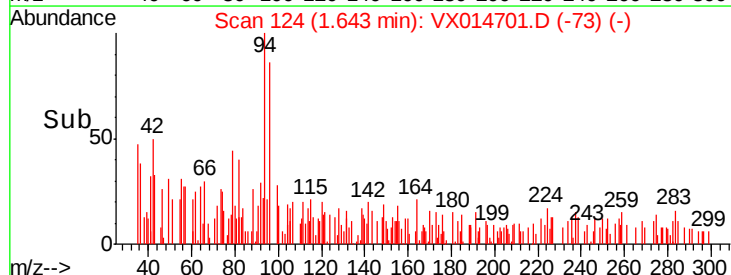
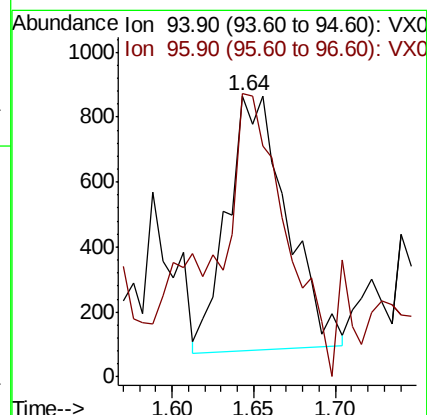
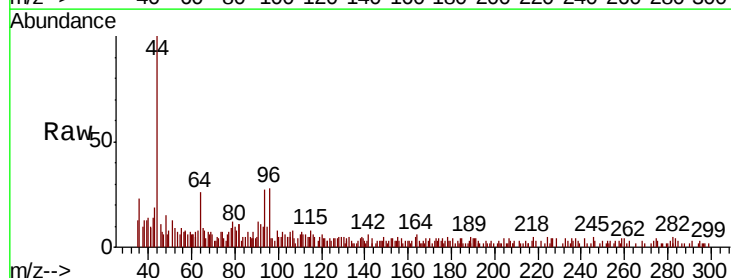
Acq: 24 Jan 2020 16:56

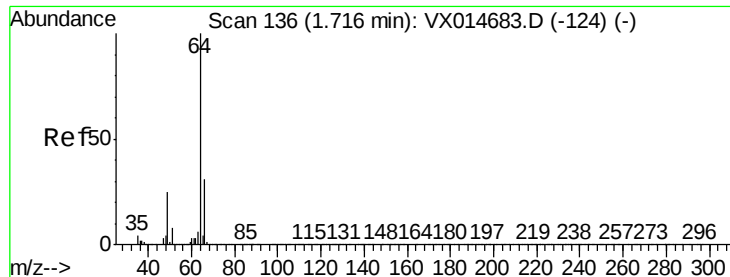
Tgt Ion: 94 Resp: 1997

Ion Ratio Lower Upper

94 100

96 83.5 74.7 112.1





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

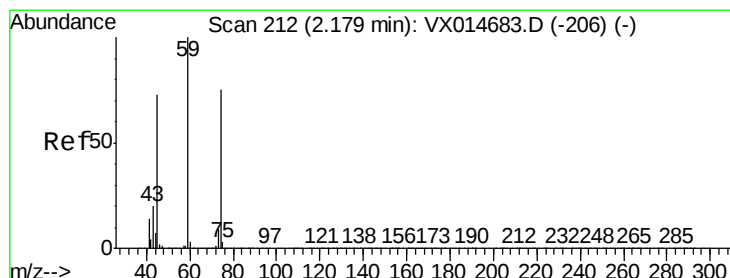
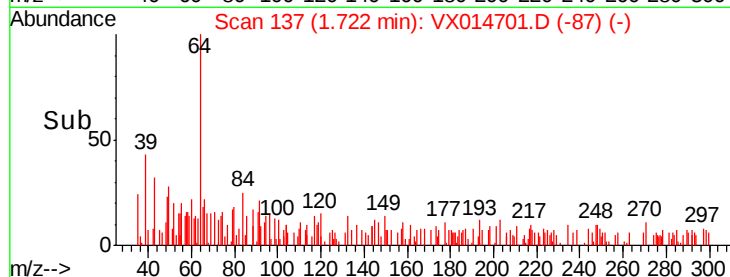
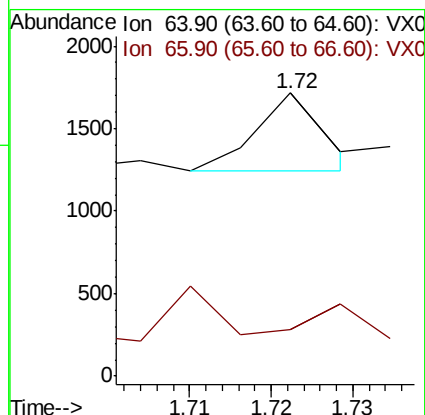
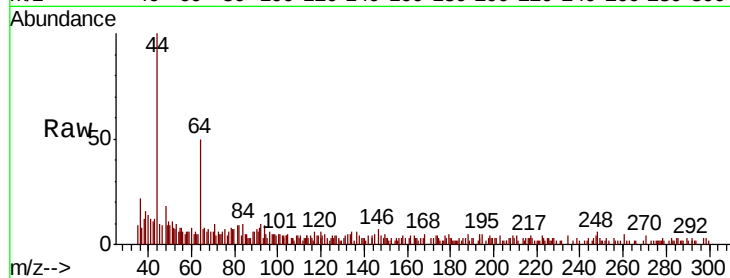
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 64 Resp: 263

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#8

Diethyl Ether

Concen: 0.259 ug/l

RT: 2.15 min Scan# 207

Delta R.T. -0.03 min

Lab File: VX014701.D

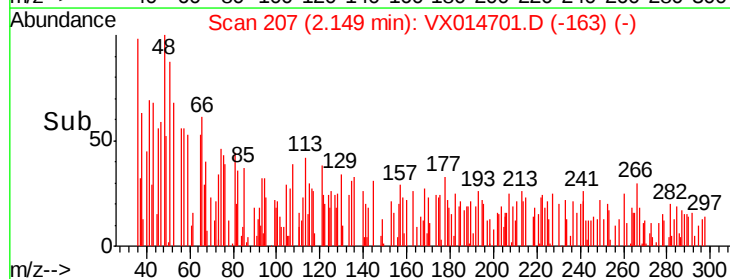
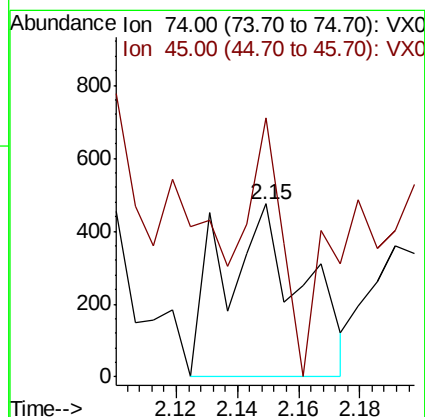
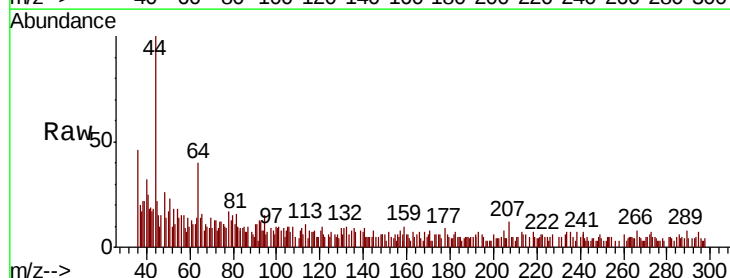
Acq: 24 Jan 2020 16:56

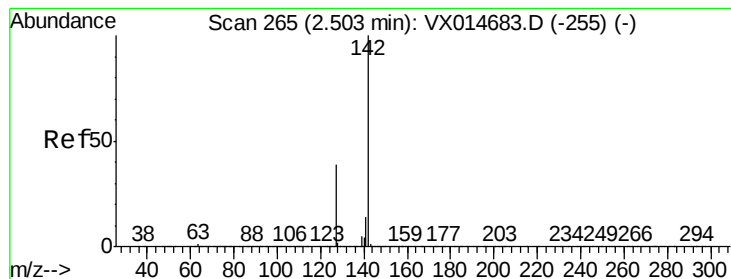
Tgt Ion: 74 Resp: 850

Ion Ratio Lower Upper

74 100

45 64.4 49.4 148.0





#10

Methvl Iodide

Concen: 0.513 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

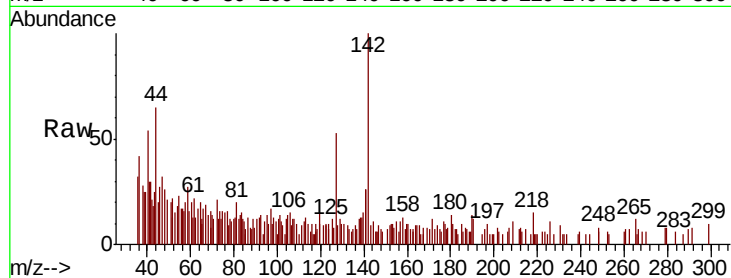
Tot Ion:142 Resp: 2972

Ion Ratio Lower Upper

142 100

127 28.0 31.1 46.7#

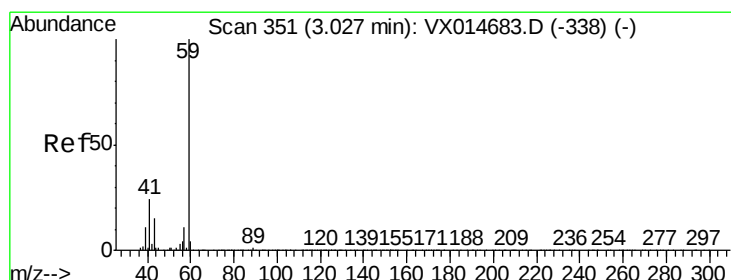
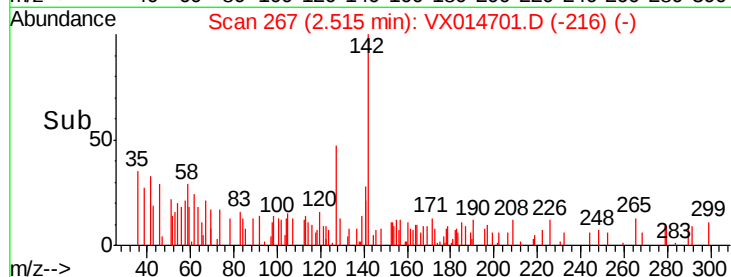
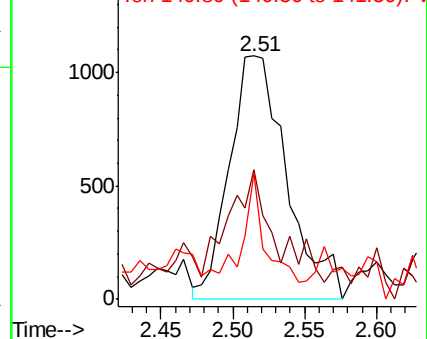
141 19.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.330 ug/l

RT: 3.03 min Scan# 352

Delta R.T. 0.01 min

Lab File: VX014701.D

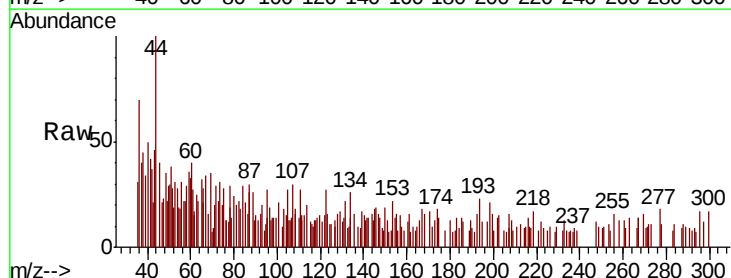
Acq: 24 Jan 2020 16:56

Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

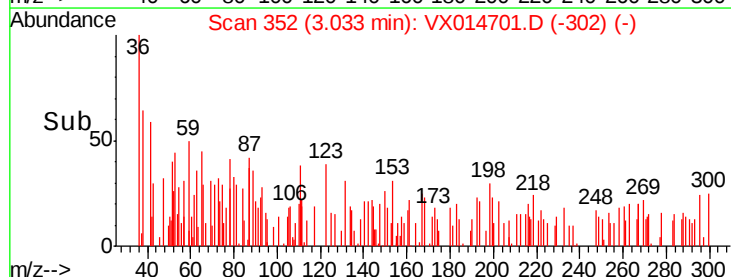
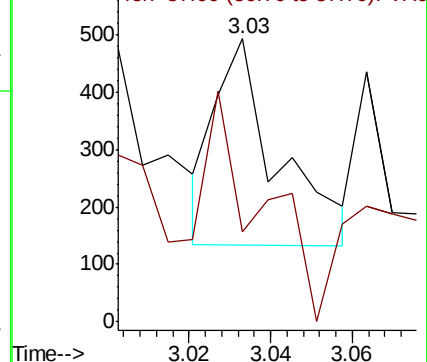
59 100

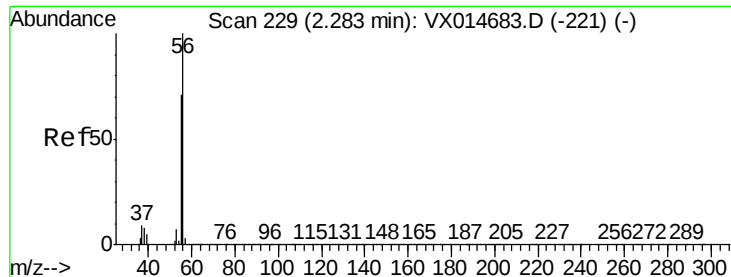
57 109.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.535 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

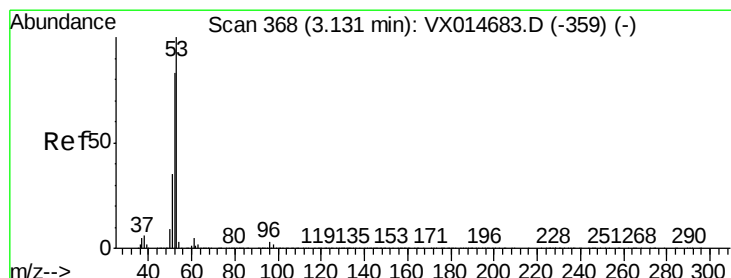
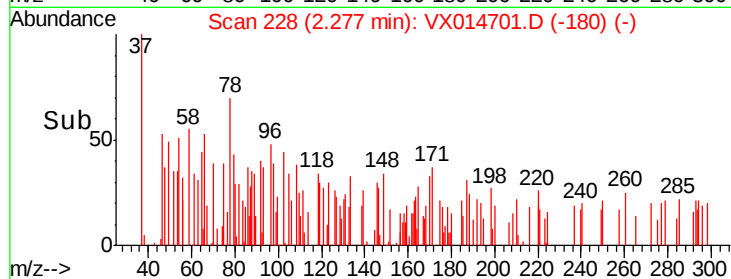
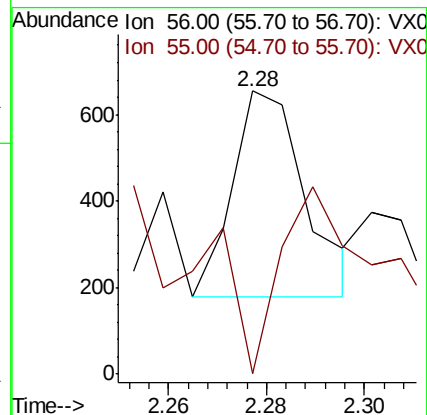
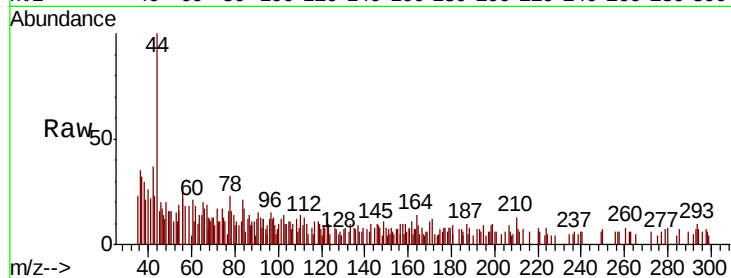
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 489

Ion Ratio Lower Upper

56 100

55 137.8 56.6 84.8#



#15

Acrylonitrile

Concen: 0.226 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

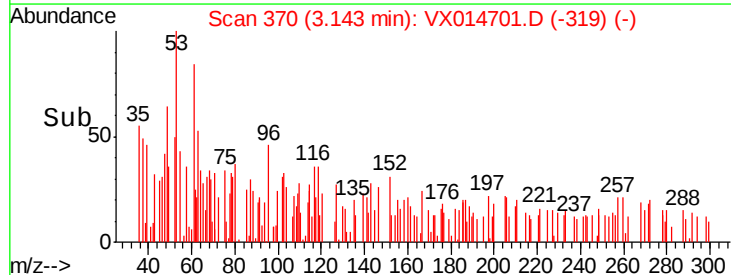
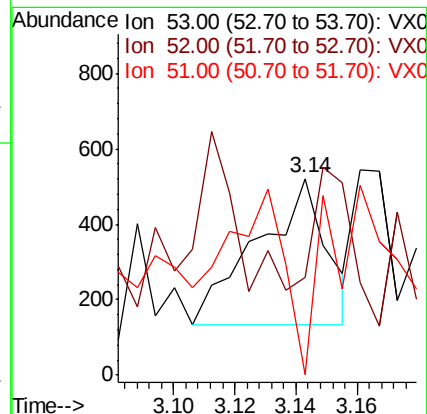
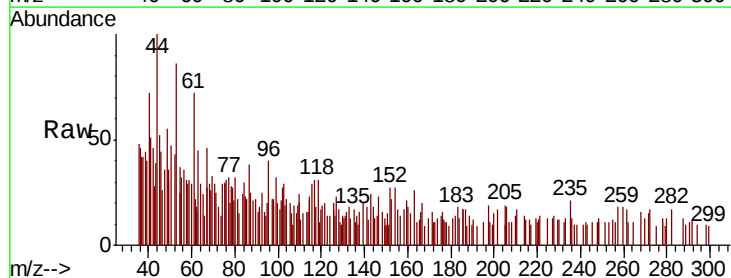
Tgt Ion: 53 Resp: 606

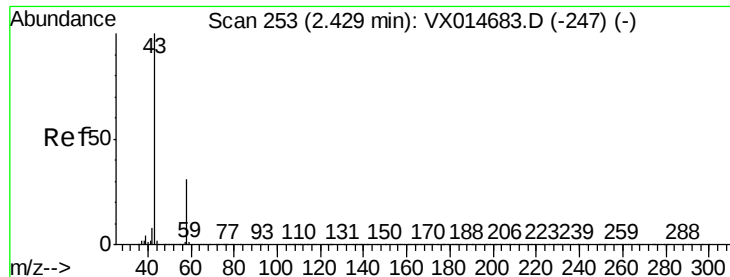
Ion Ratio Lower Upper

53 100

52 63.0 66.4 99.6#

51 109.9 28.7 43.1#





#16

Acetone

Concen: 4.898 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

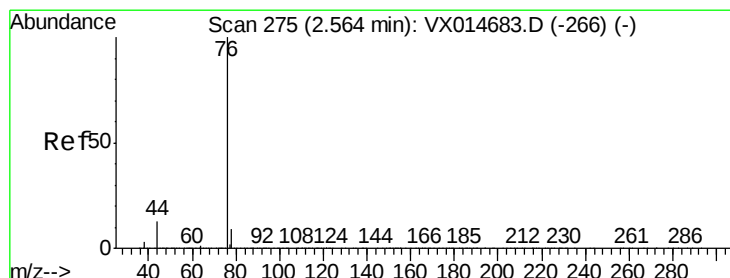
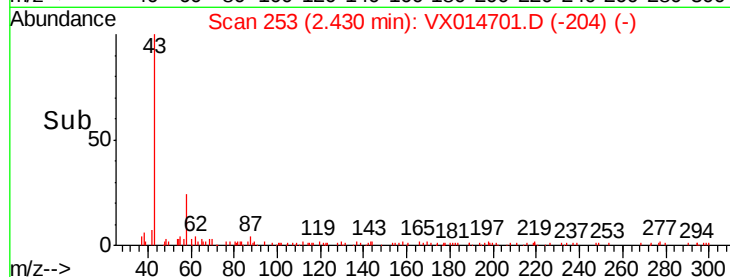
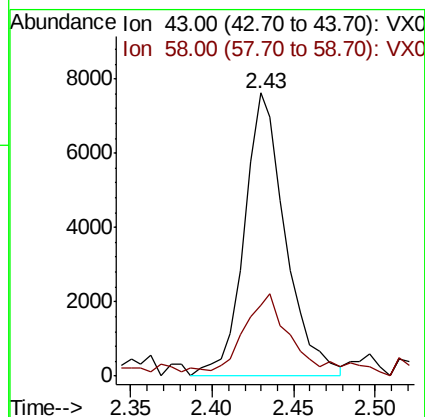
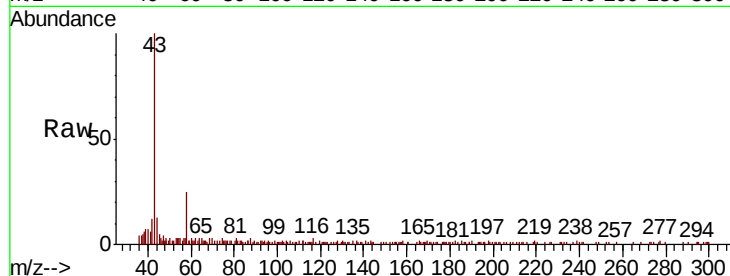
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 13432

Ion Ratio Lower Upper

43 100

58 22.5 24.5 36.7#



#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014701.D

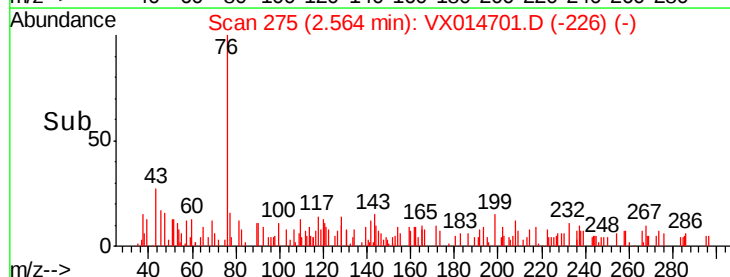
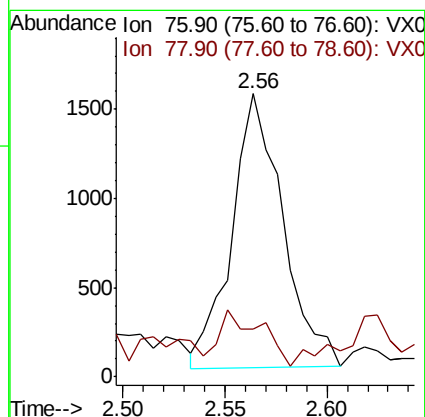
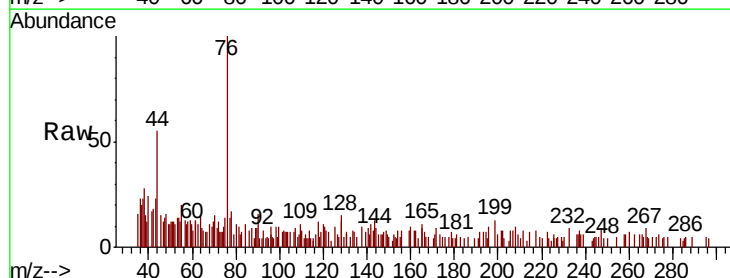
Acq: 24 Jan 2020 16:56

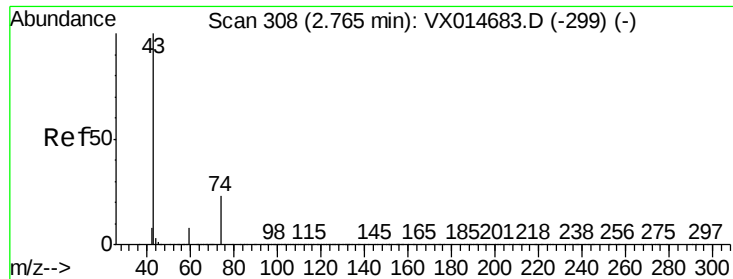
Tgt Ion: 76 Resp: 2680

Ion Ratio Lower Upper

76 100

78 7.8 7.2 10.8

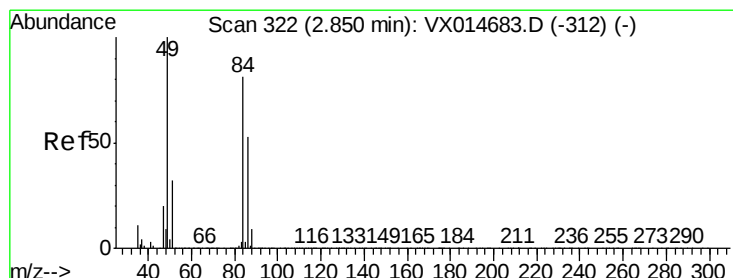
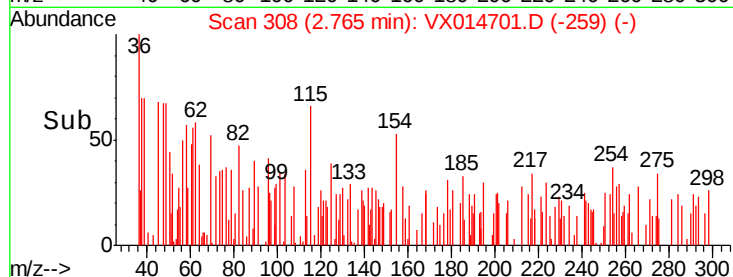
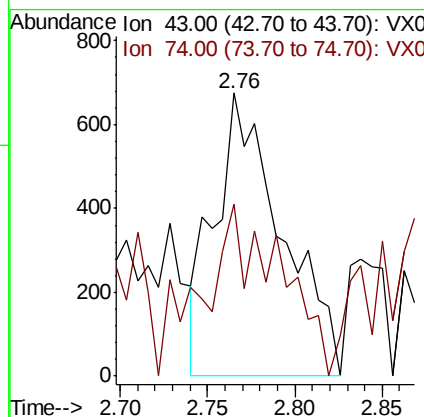
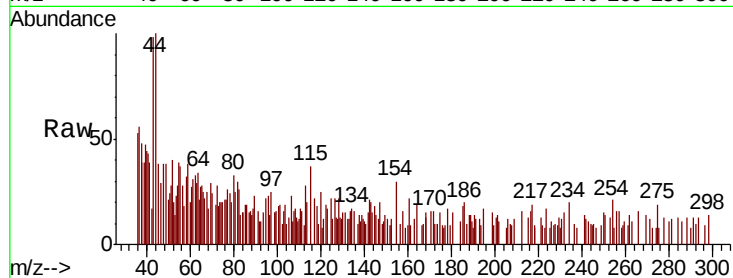




#18
Methyl Acetate
Concen: 0.224 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

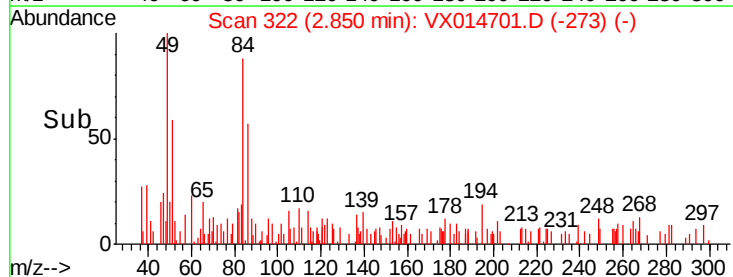
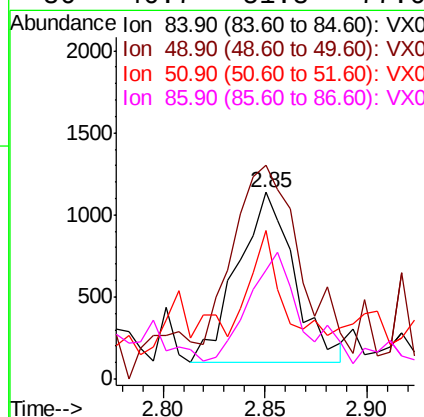
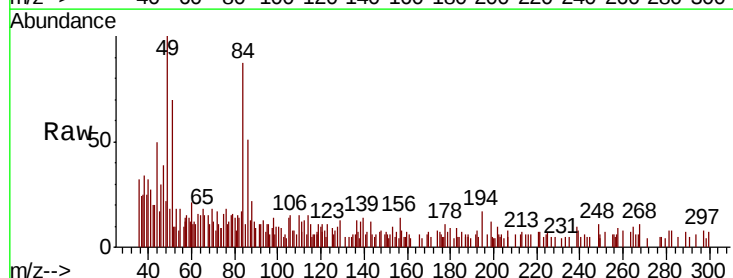
Instrument :
MSVOA_X
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STORAGE-BLANK-SOIL-REF-6

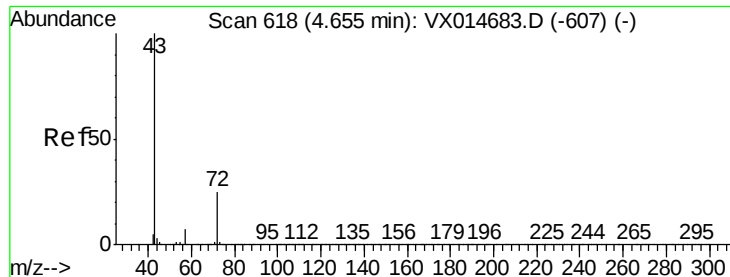
Tot Ion: 43 Resp: 1807
Ion Ratio Lower Upper
43 100
74 37.0 18.5 27.7#



#20
Methylene Chloride
Concen: 0.383 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 84 Resp: 2002
Ion Ratio Lower Upper
84 100
49 98.3 98.2 147.4
51 63.4 31.3 46.9#
86 46.7 51.8 77.6#





#25

2-Butanone

Concen: 0.849 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

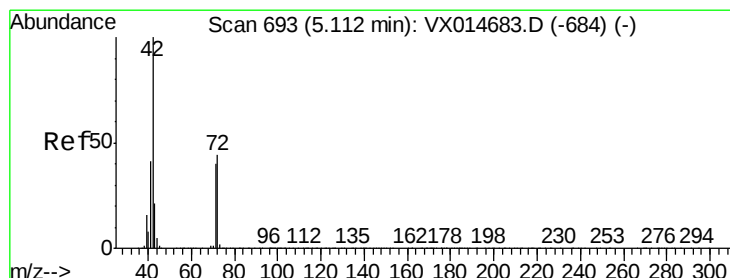
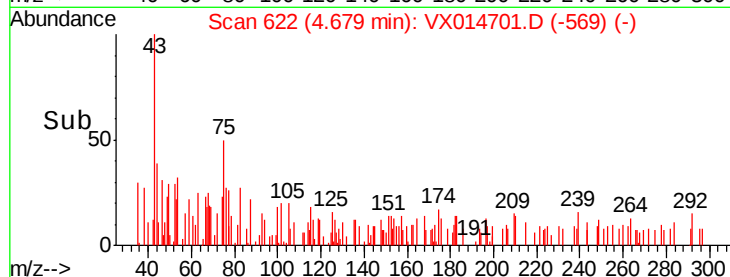
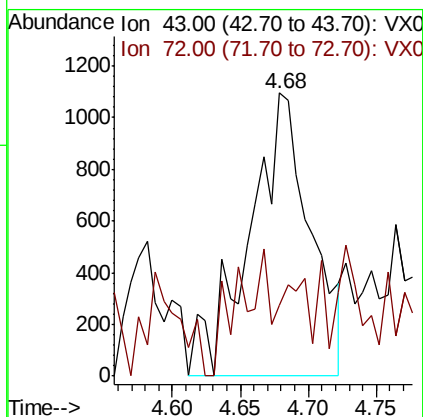
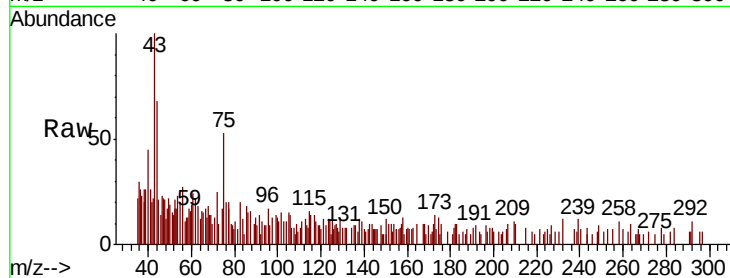
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 3440

Ion Ratio Lower Upper

43 100

72 15.1 19.9 29.9#



#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

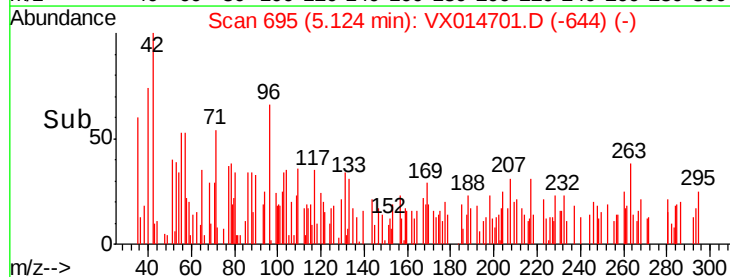
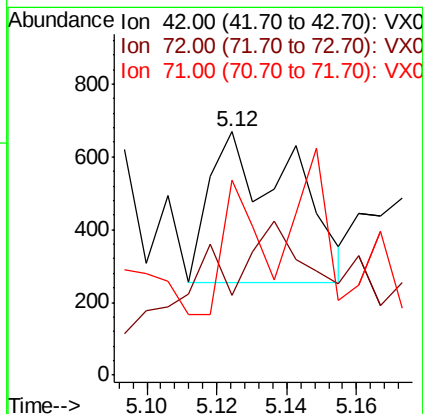
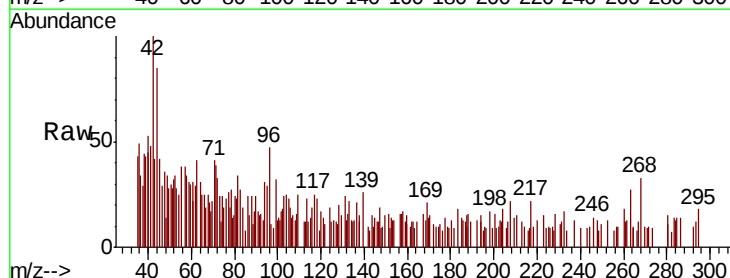
Tgt Ion: 42 Resp: 675

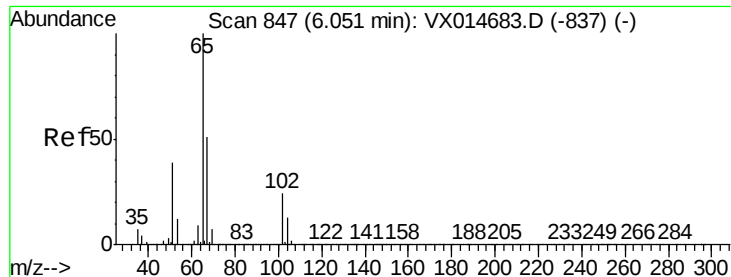
Ion Ratio Lower Upper

42 100

72 0.0 35.3 52.9#

71 38.1 33.1 49.7





#33

1,2-Dichloroethane-d4

Concen: 48.688 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

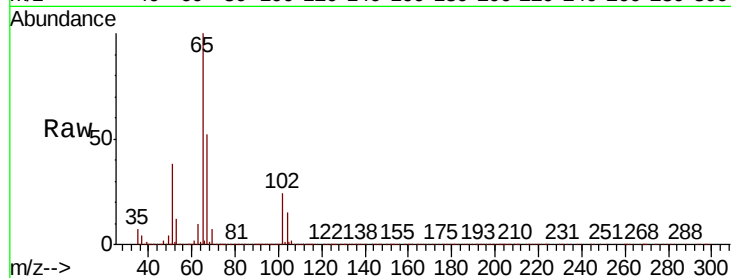
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 65 Resp: 251197

Ion Ratio Lower Upper

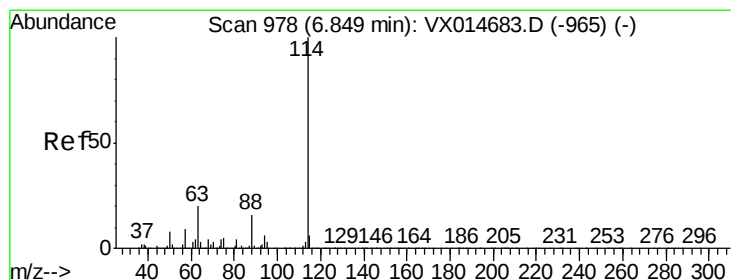
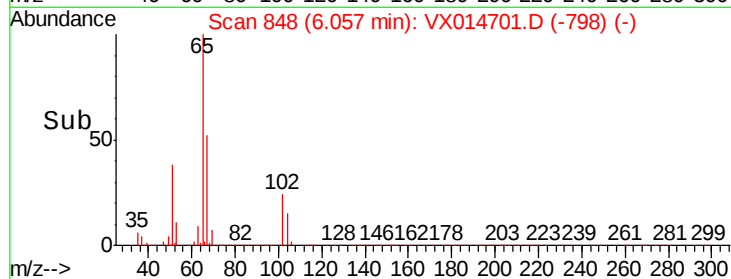
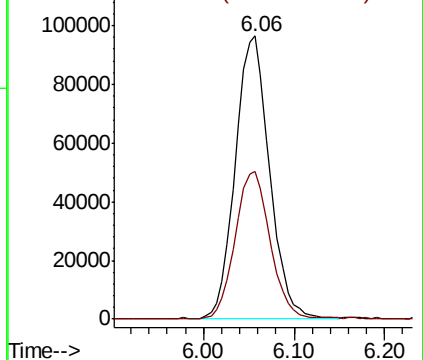
65 100

67 53.9 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

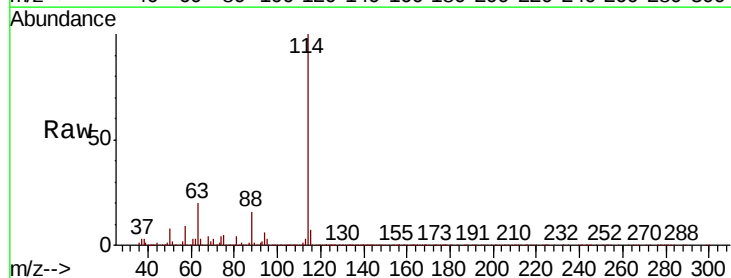
Tgt Ion: 114 Resp: 688615

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.6

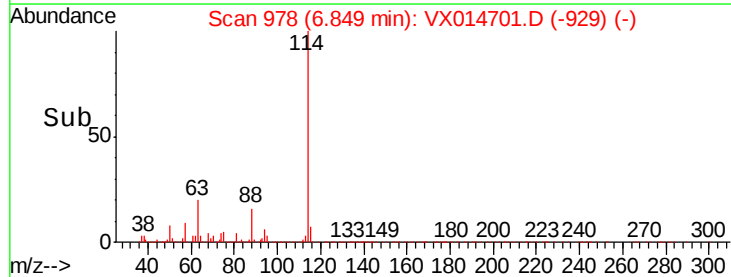
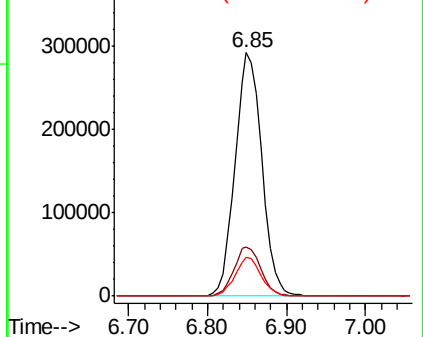
88 16.1 0.0 31.2

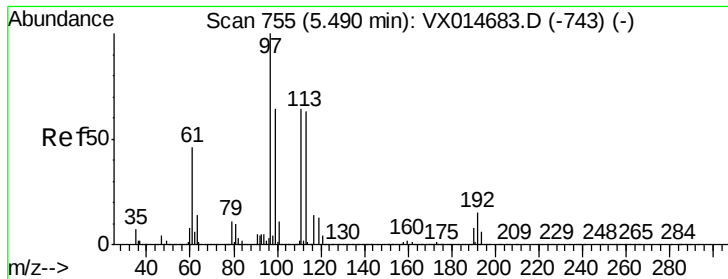


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

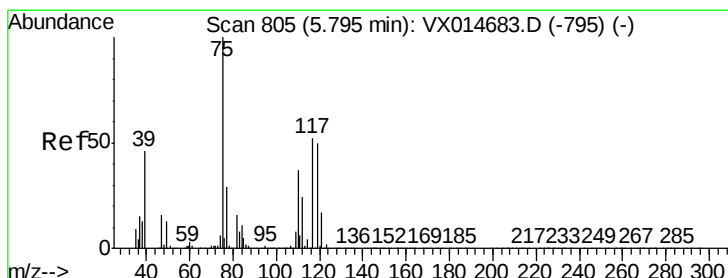
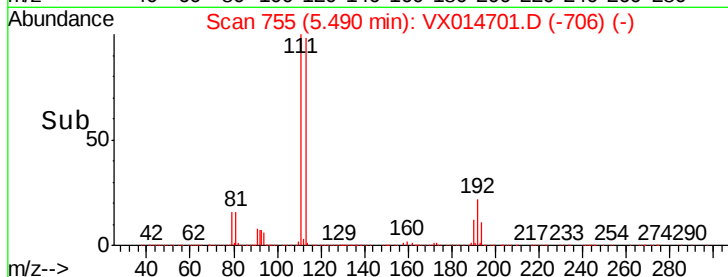
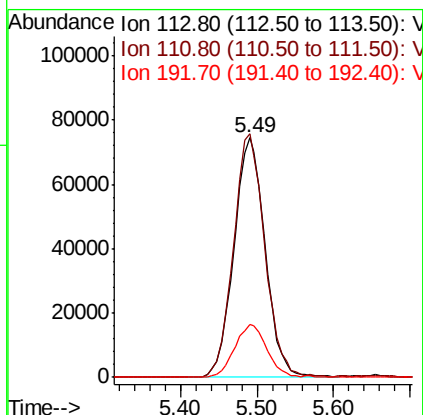
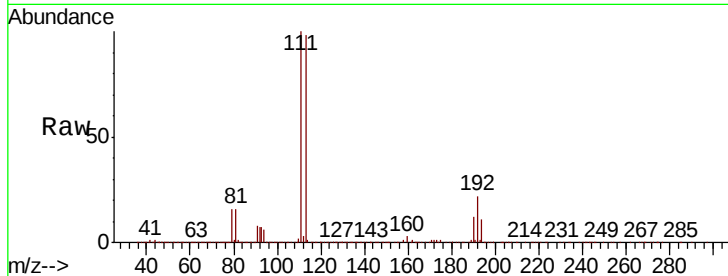




#35
Dibromofluoromethane
Concen: 48.244 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

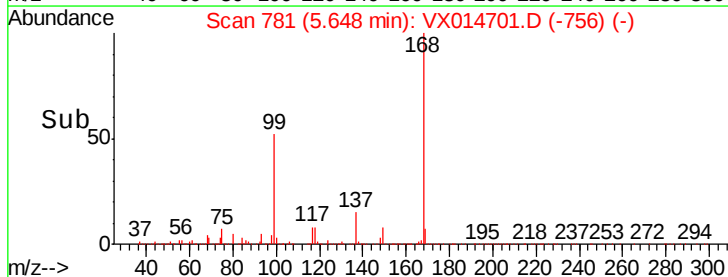
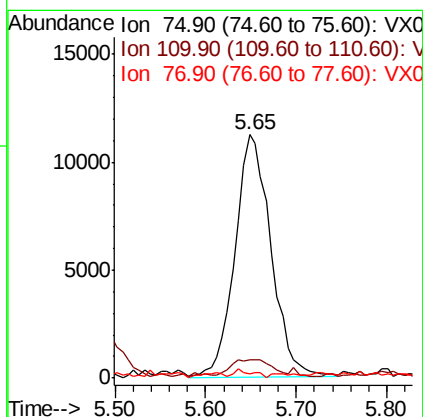
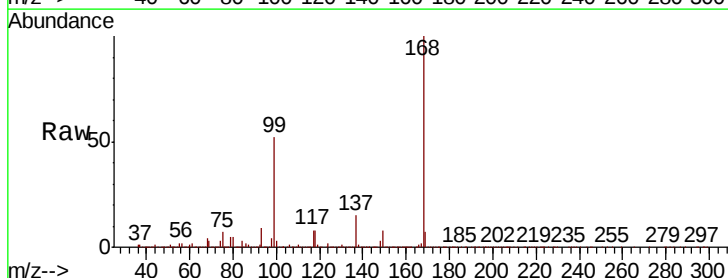
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

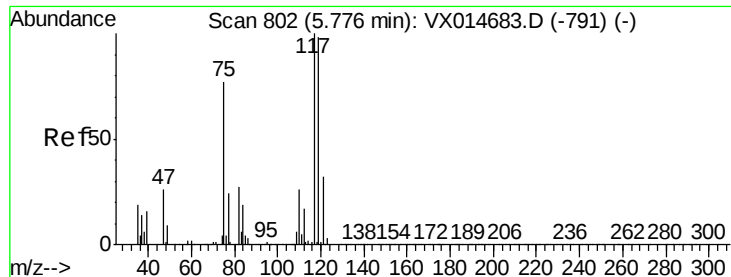
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.7	121.1
192	23.1	18.5	27.7



#36
1,1-Dichloropropene
Concen: 4.810 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.15 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.9	53.7#
77	1.9	24.1	36.1#





#38

Carbon Tetrachloride

Concen: 6.480 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

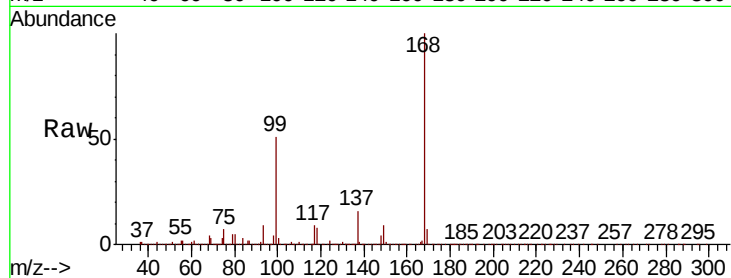
Tot Ion:117 Resp: 39598

Ion Ratio Lower Upper

117 100

119 4.4 77.9 116.9#

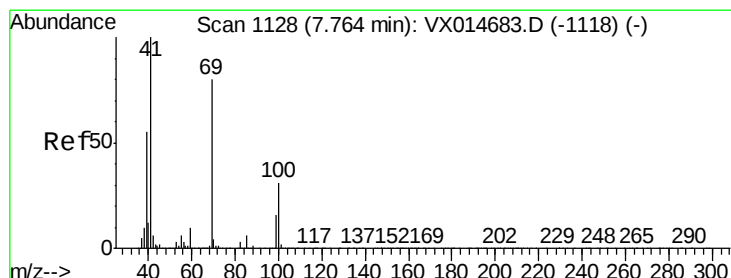
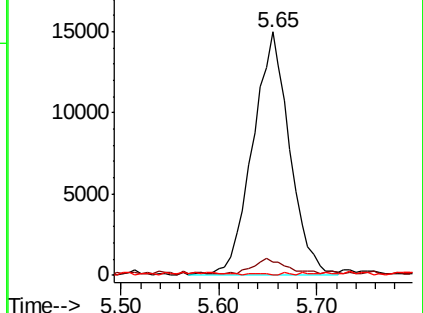
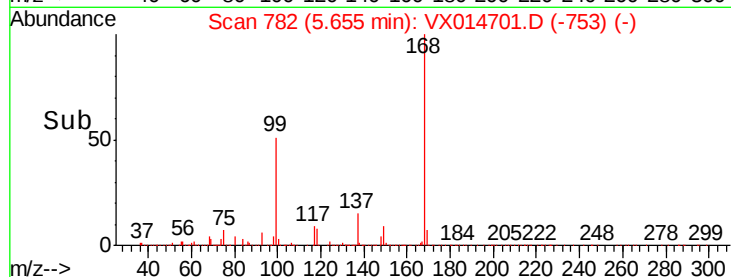
121 0.0 25.4 38.2#



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



#48

Methyl methacrylate

Concen: 0.230 ug/l

RT: 7.78 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

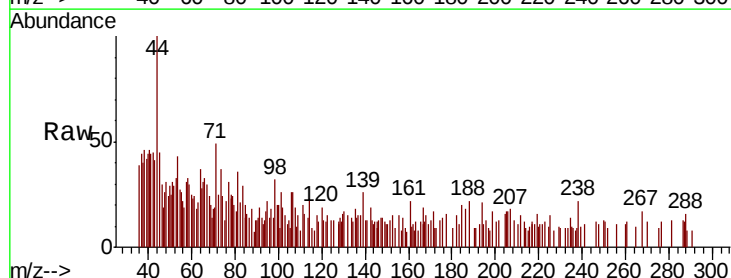
Tgt Ion: 41 Resp: 1319

Ion Ratio Lower Upper

41 100

69 10.1 63.5 95.3#

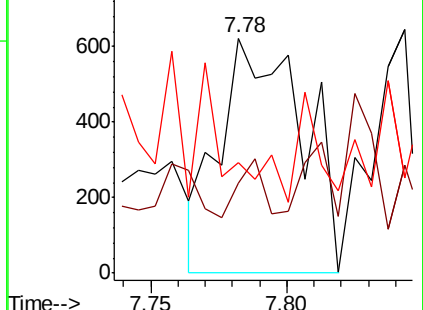
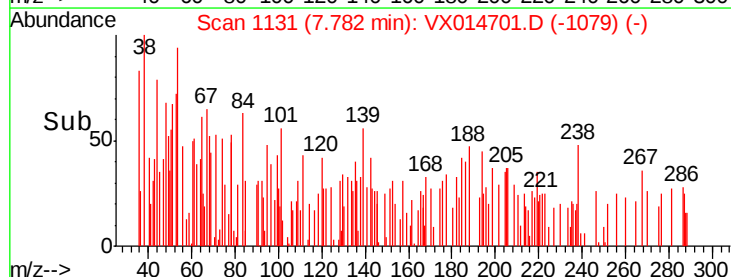
39 0.0 43.7 65.5#

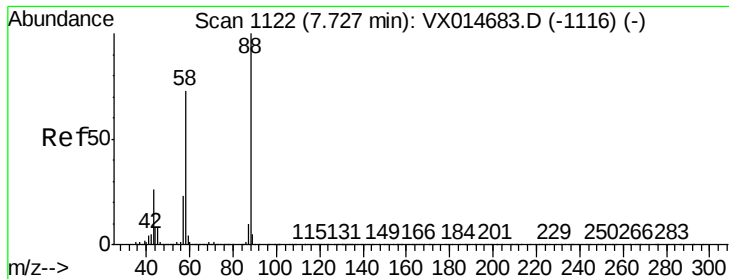


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 3.801 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

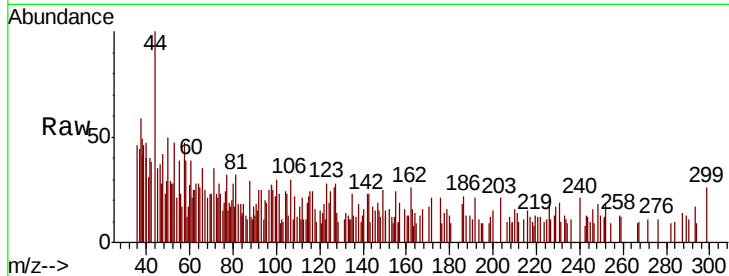
Tot Ion: 88 Resp: 462

Ion Ratio Lower Upper

88 100

43 0.0 26.2 39.2#

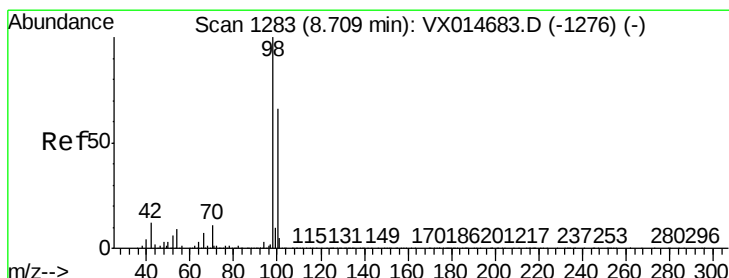
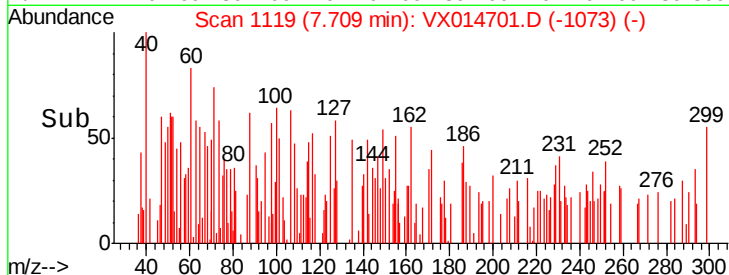
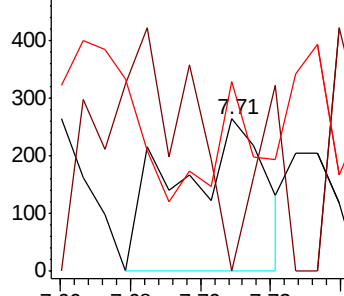
58 41.8 56.6 85.0#



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: 49.213 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014701.D

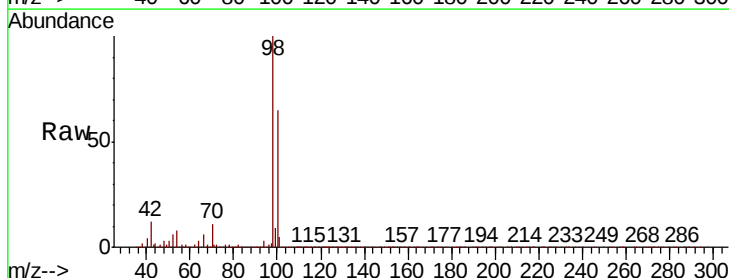
Acq: 24 Jan 2020 16:56

Tgt Ion: 98 Resp: 822077

Ion Ratio Lower Upper

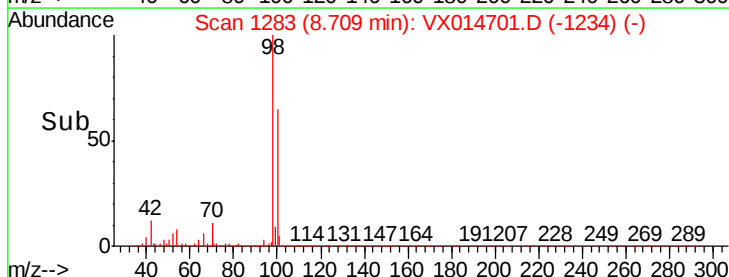
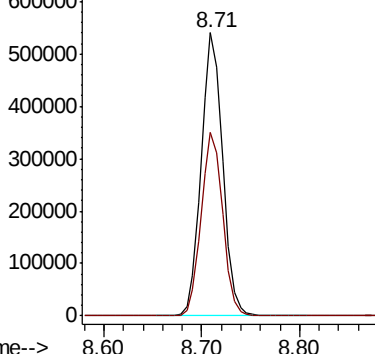
98 100

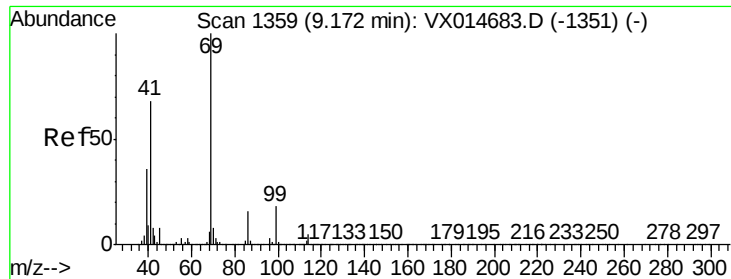
100 65.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

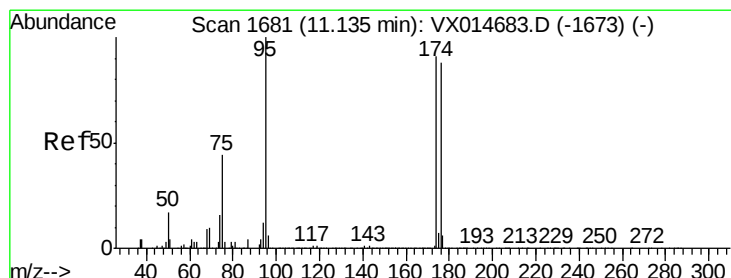
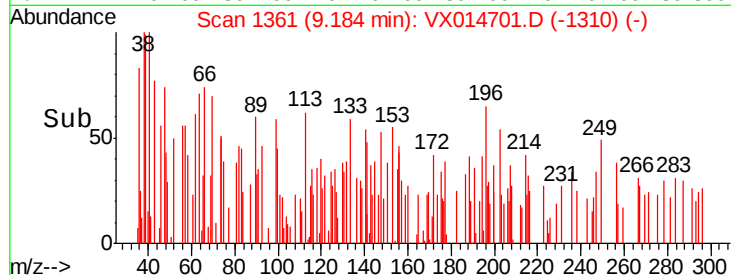
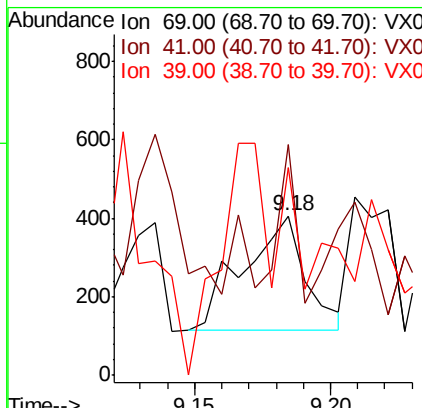
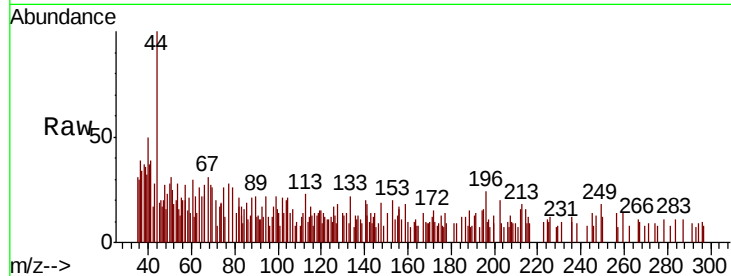




#56
Ethyl methacrylate
Concen: 1.837 ug/l
RT: 9.18 min Scan# 1361
Delta R.T. 0.01 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

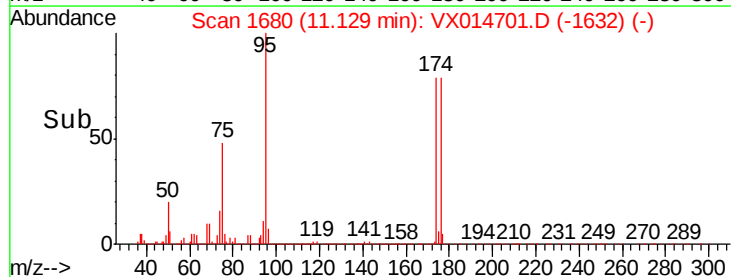
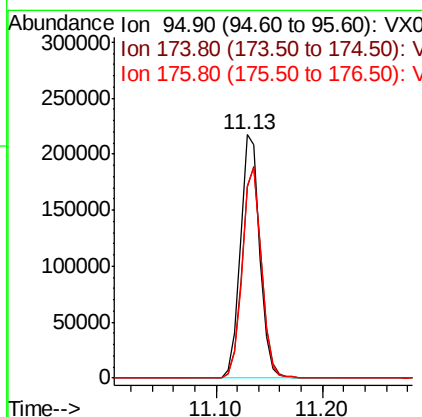
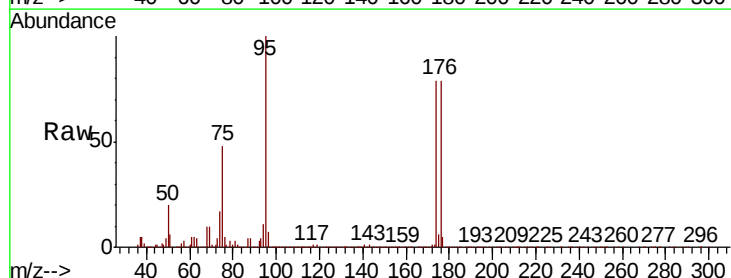
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

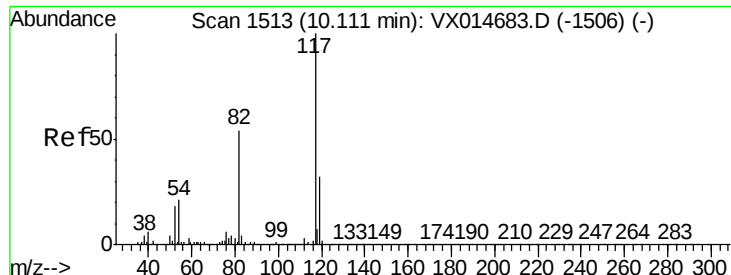
Tot Ion: 69 Resp: 458
Ion Ratio Lower Upper
69 100
41 62.0 54.9 82.3
39 266.2 29.3 43.9#



#62
4-Bromofluorobenzene
Concen: 46.540 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 95 Resp: 276935
Ion Ratio Lower Upper
95 100
174 87.3 0.0 176.0
176 85.7 0.0 172.2

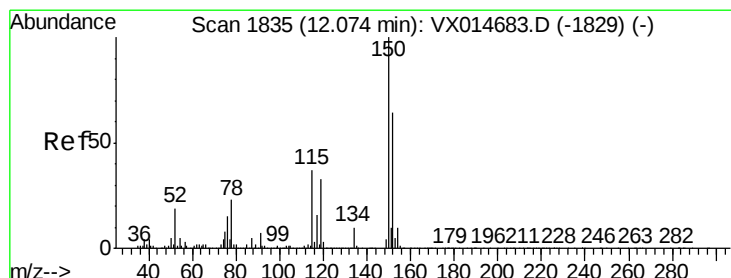
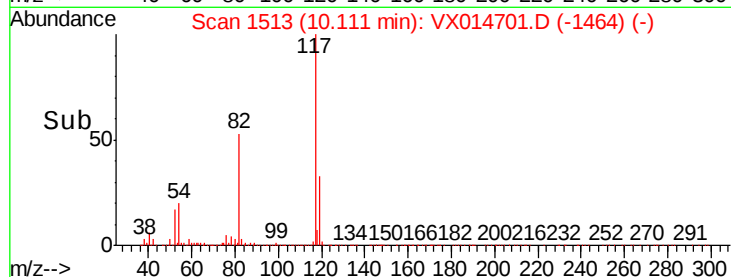
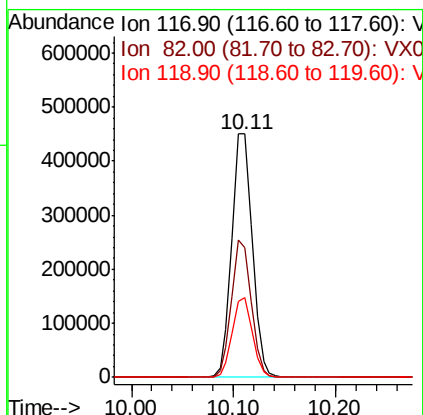
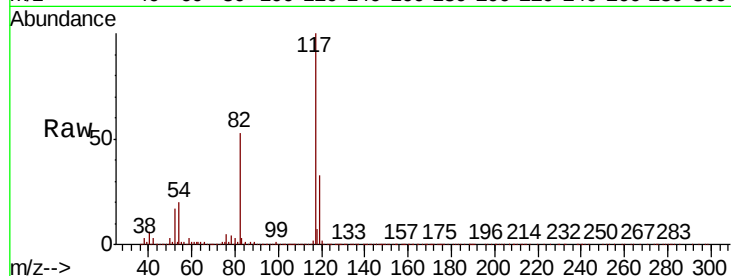




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

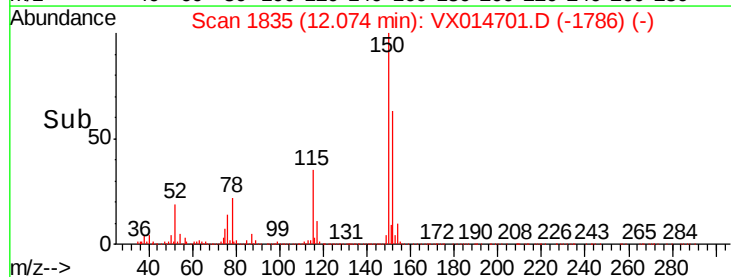
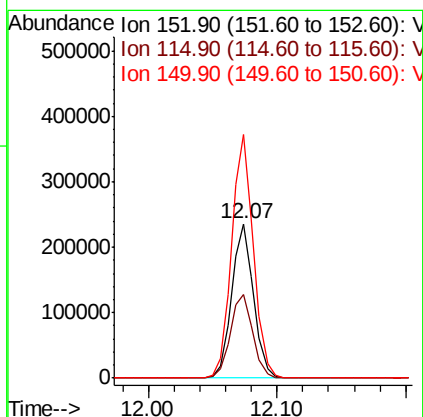
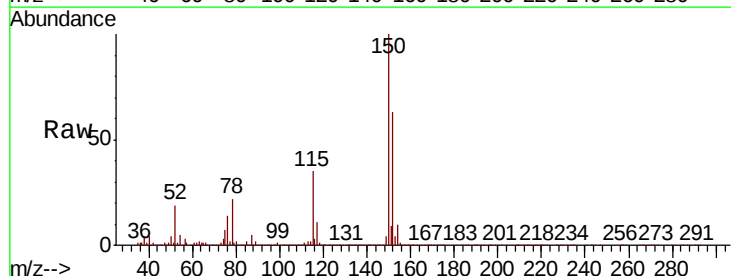
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

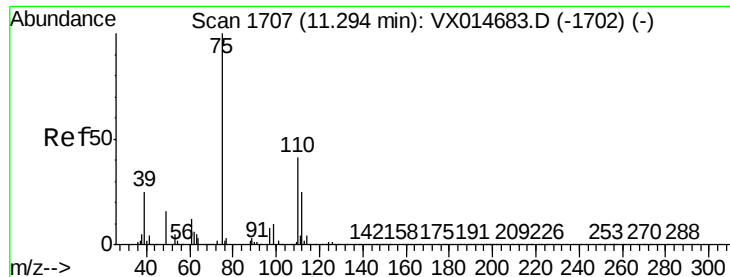
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	43.2	64.8
119	32.8	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014701.D
Acq: 24 Jan 2020 16:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	39.4	118.1
150	157.3	0.0	351.2





#76

1,2,3-Trichloropropane

Concen: 20.919 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_X

ClientSampleId :

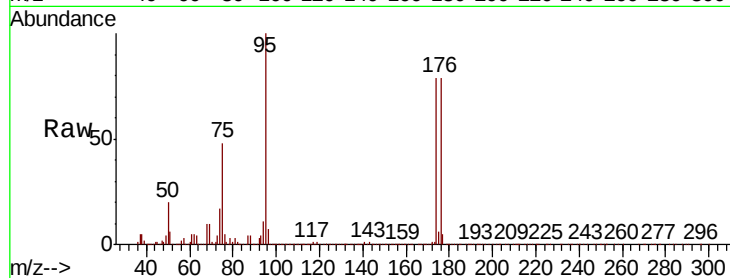
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 135480

Ion Ratio Lower Upper

75 100

77 1.3 18.7 56.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

120000

100000

80000

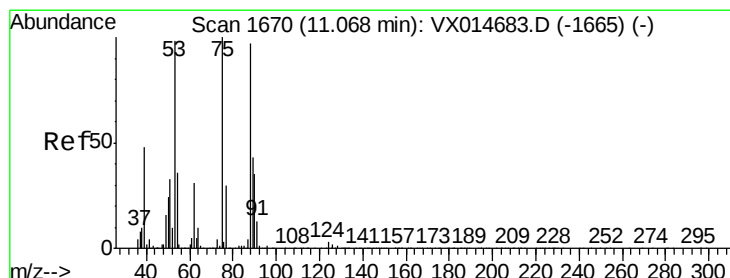
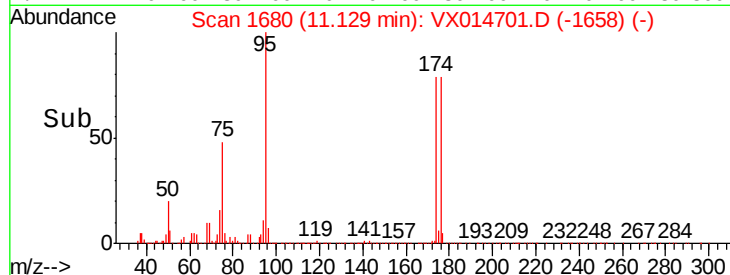
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.531 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014701.D

Acq: 24 Jan 2020 16:56

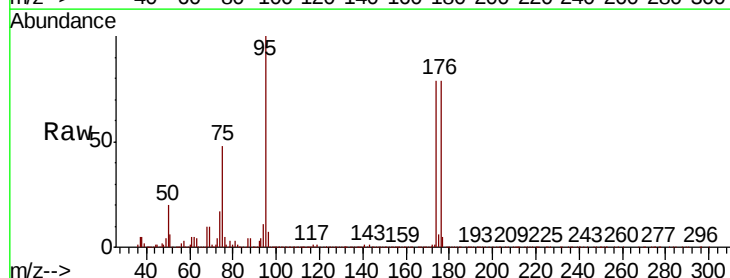
Tgt Ion: 75 Resp: 135480

Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

89 0.2 35.4 53.0#



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

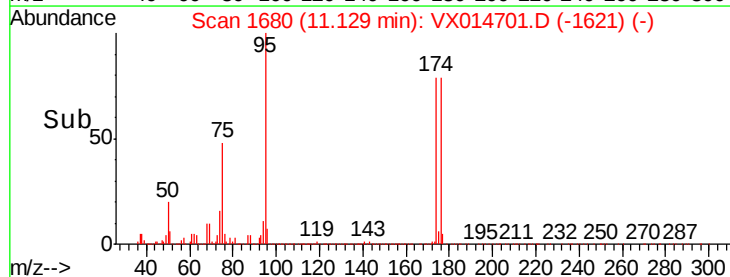
11.13

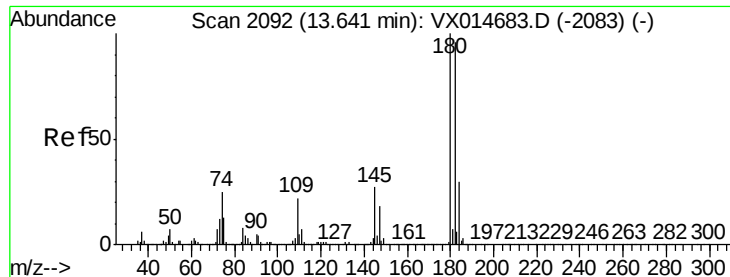
100000

50000

0

Time-->

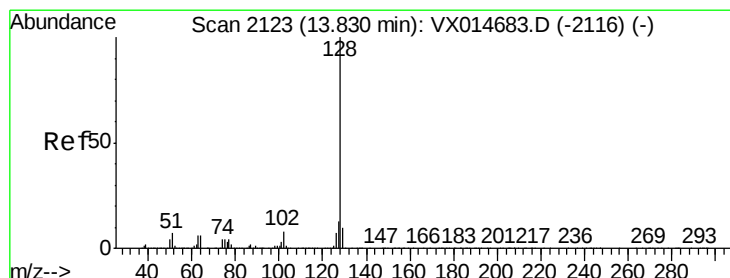
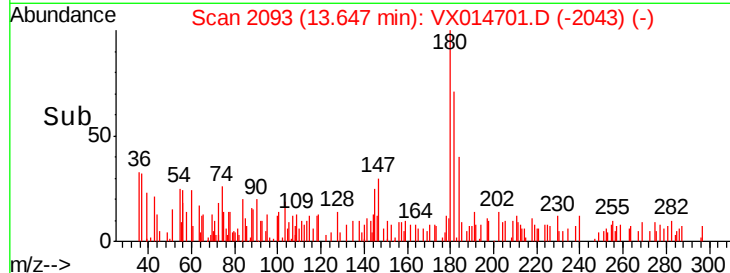
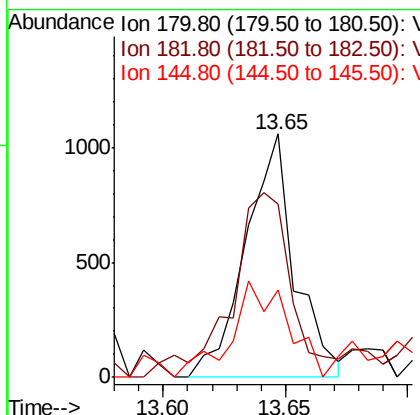
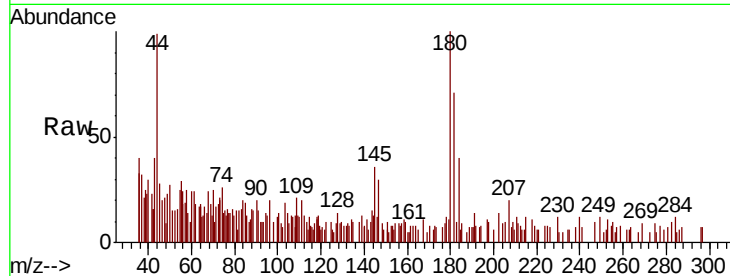




#93
 1,2,4-Trichlorobenzene
 Concen: 0.246 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX014701.D
 Acq: 24 Jan 2020 16:56

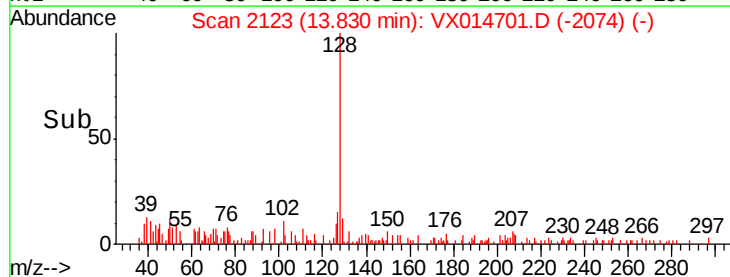
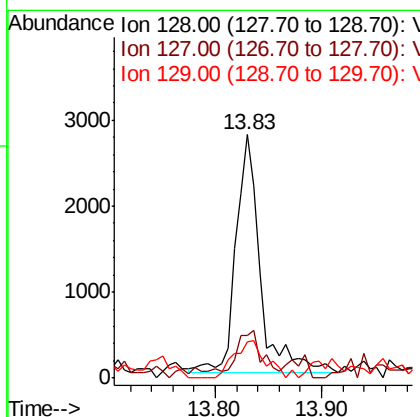
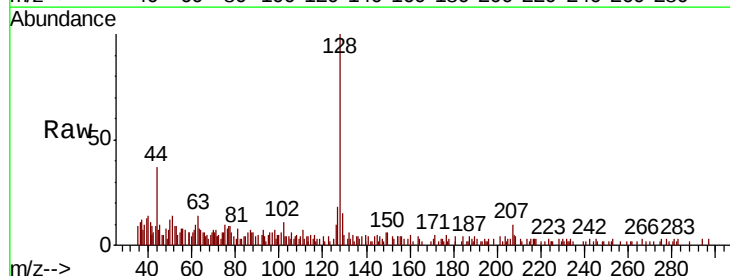
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

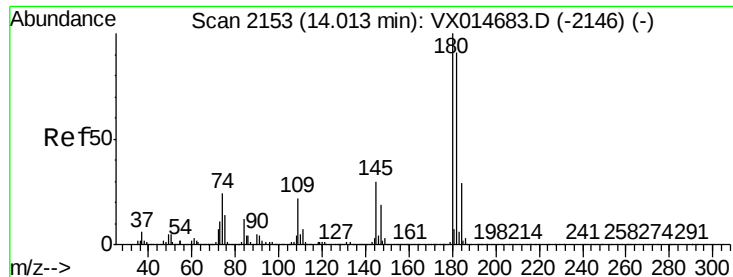
Tot Ion	Ratio	Lower	Upper
180	100		
182	92.5	48.5	145.6
145	45.1	14.0	41.9#



#95
 Naphthalene
 Concen: 1.155 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX014701.D
 Acq: 24 Jan 2020 16:56

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.8	10.3	15.5#
129	20.1	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.252 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014701.D
 Acq: 24 Jan 2020 16:56

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.8	46.6	139.7
145	62.5	14.7	44.1#

