

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005577.D
 Acq On : 25 Oct 2018 08:04
 Operator : JC/MD
 Sample : J5639-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

Quant Time: Oct 25 08:33:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	199991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309773	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	286773	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134431	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	135842	55.64	ug/l	0.00
Spiked Amount			Recovery	=	111.28%	
35) Dibromofluoromethane	5.50	113	101432	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	8.71	98	377906	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.14	95	124125	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	

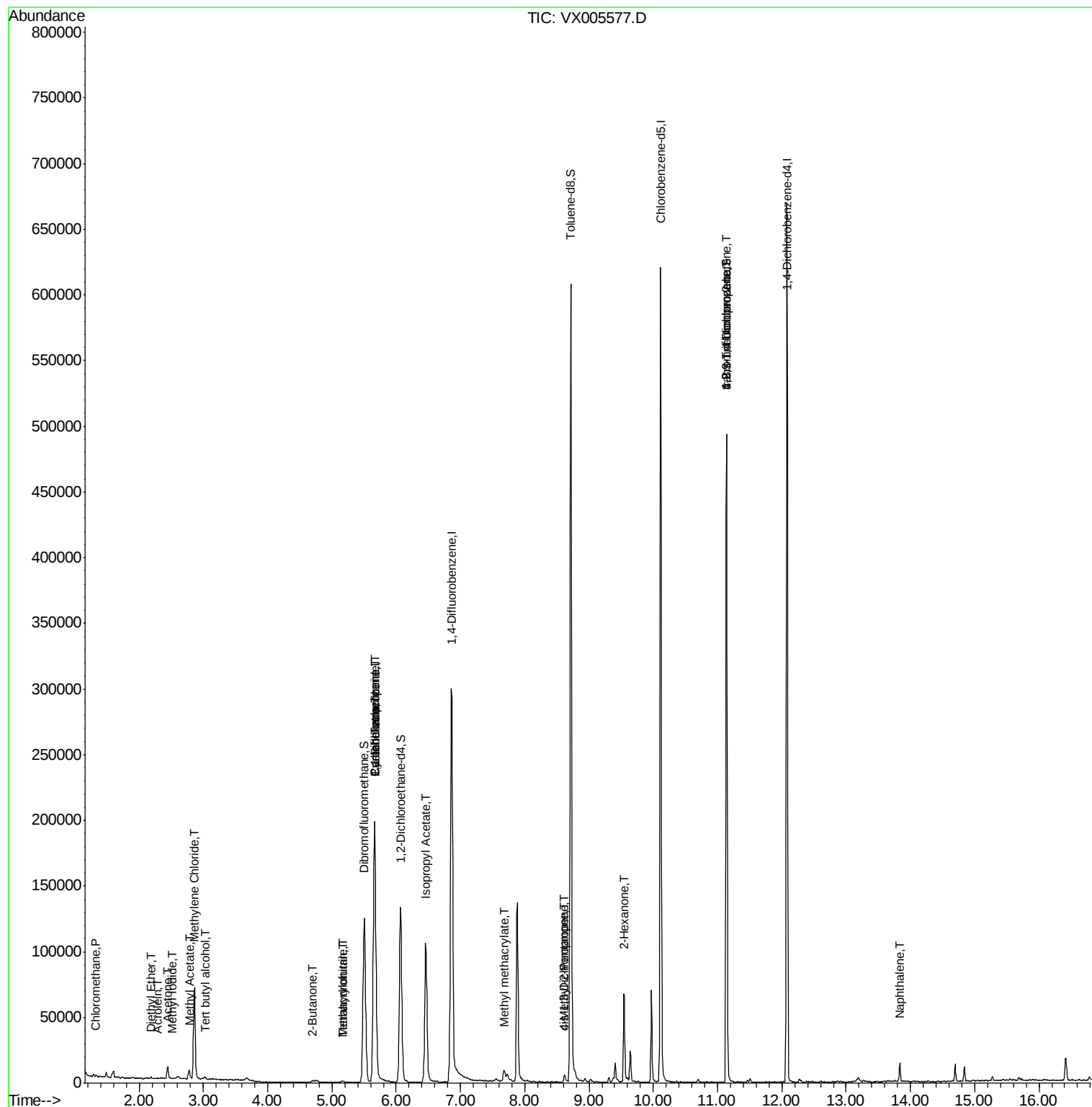
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	967	0.385	ug/l	92
8) Diethyl Ether	2.20	74	469	0.342	ug/l	96
10) Methyl Iodide	2.51	142	26	2.737	ug/l #	41
11) Tert butyl alcohol	3.02	59	1371	2.087	ug/l #	77
13) Acrolein	2.29	56	246	0.734	ug/l #	48
16) Acetone	2.45	43	9696	7.516	ug/l	90
18) Methyl Acetate	2.78	43	7982	1.074	ug/l	96
20) Methylene Chloride	2.86	84	30398	14.070	ug/l	97
25) 2-Butanone	4.70	43	2079	1.058	ug/l #	84
29) Tetrahydrofuran	5.17	42	942	0.737	ug/l #	79
31) Cyclohexane	5.66	56	3938	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14452	4.807	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18963	5.989	ug/l #	16
41) Methacrylonitrile	5.17	41	674	0.315	ug/l #	46
43) Isopropyl Acetate	6.46	43	137223	23.871	ug/l	95
48) Methyl methacrylate	7.69	41	5917	2.113	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	1801	0.466	ug/l #	53
54) cis-1,3-Dichloropropene	8.62	75	852	0.252	ug/l #	82
59) 2-Hexanone	9.54	43	8078	2.652	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	62523	22.834	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62523	71.726	ug/l #	10
95) Naphthalene	13.83	128	8430	0.918	ug/l	98

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

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Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-2

Quant Time: Oct 25 08:33:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 24 13:13:34 2018
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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: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

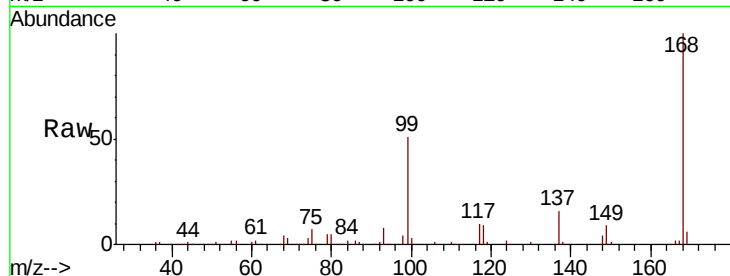
BS-SOIL-2

Tot Ion:168 Resp: 199991

Ion Ratio Lower Upper

168 100

99 51.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

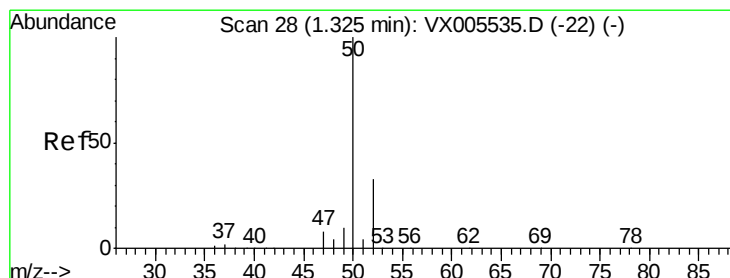
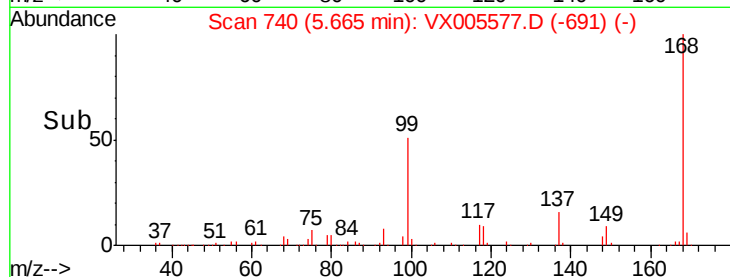
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.385 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005577.D

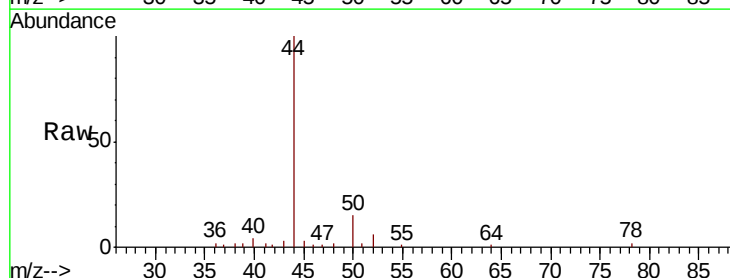
Acq: 25 Oct 2018 08:04

Tgt Ion: 50 Resp: 967

Ion Ratio Lower Upper

50 100

52 37.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

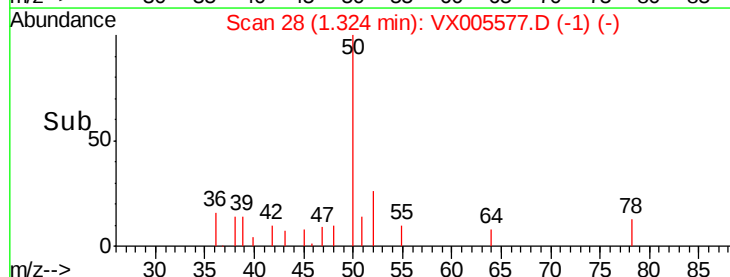
400

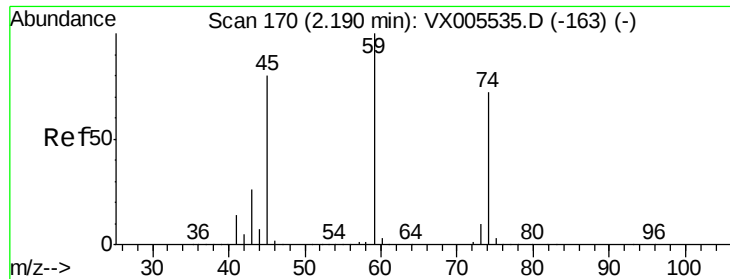
200

0

1.30 1.35 1.40

Time-->





#8

Diethyl Ether

Concen: 0.342 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

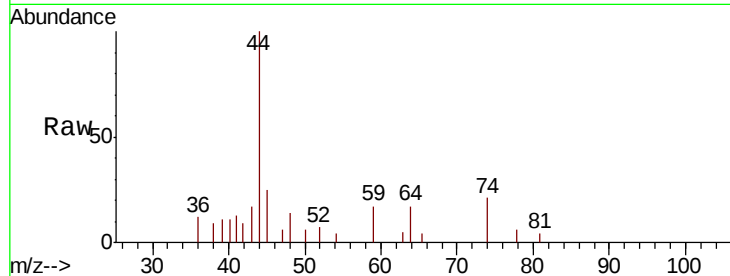
BS-SOIL-2

Tot Ion: 74 Resp: 469

Ion Ratio Lower Upper

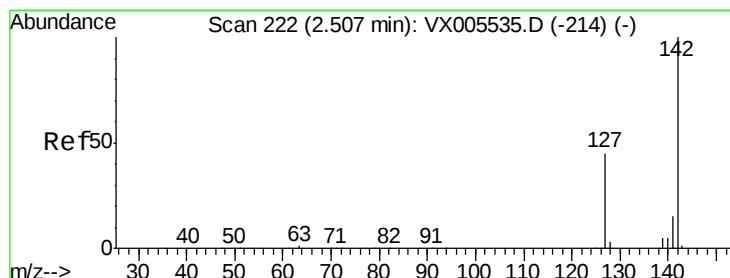
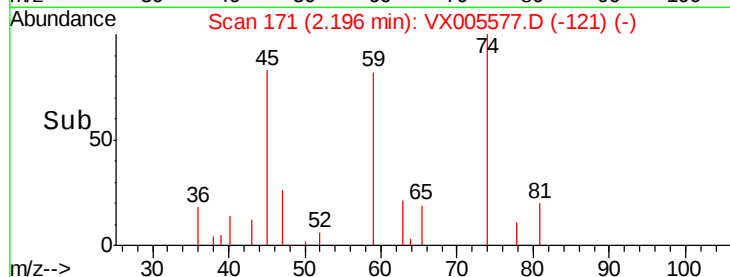
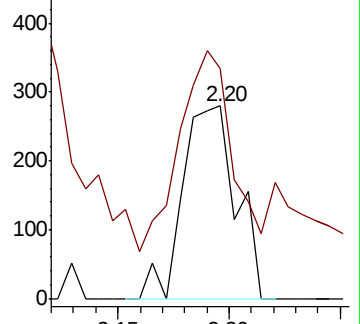
74 100

45 100.9 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 2.737 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

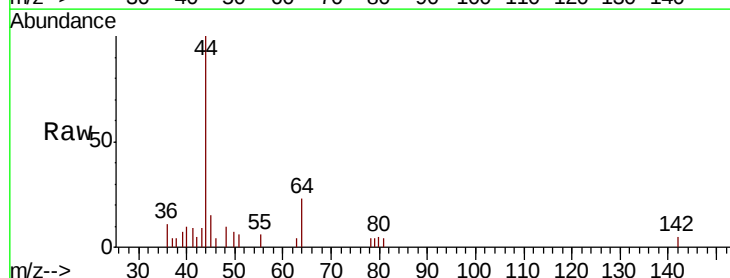
Tgt Ion: 142 Resp: 26

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

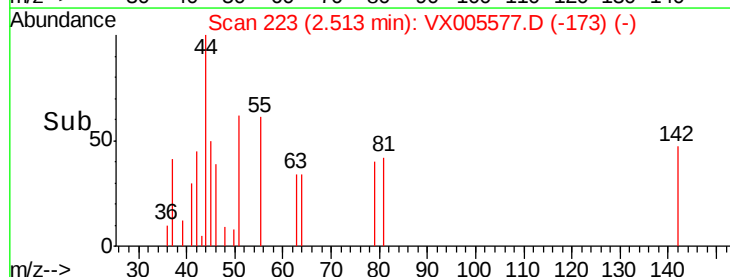
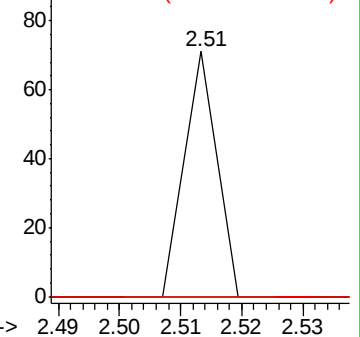
141 0.0 11.4 17.0#

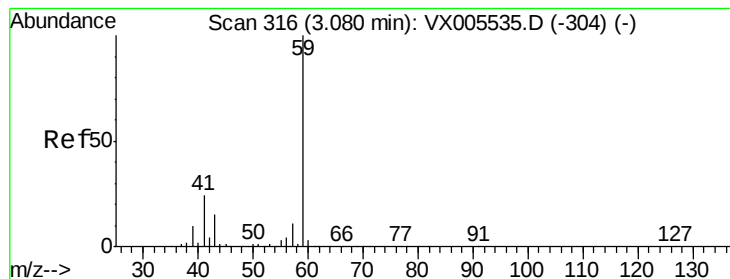


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



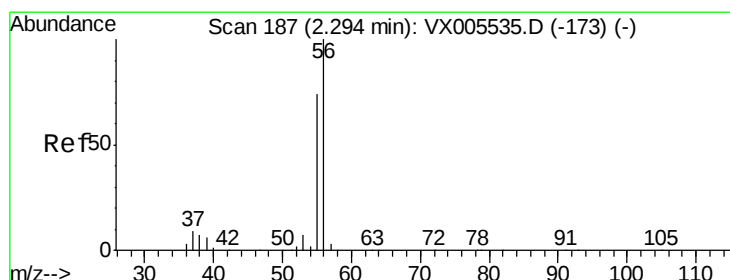
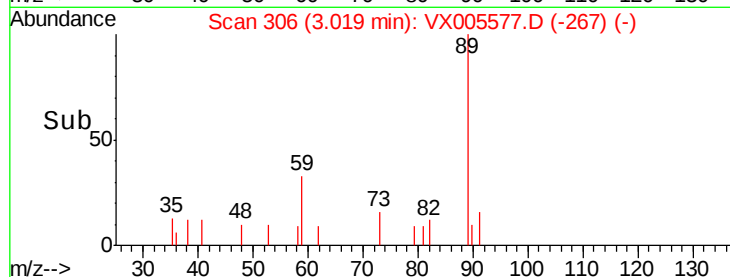
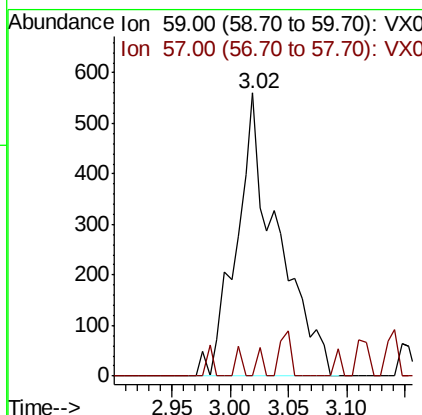
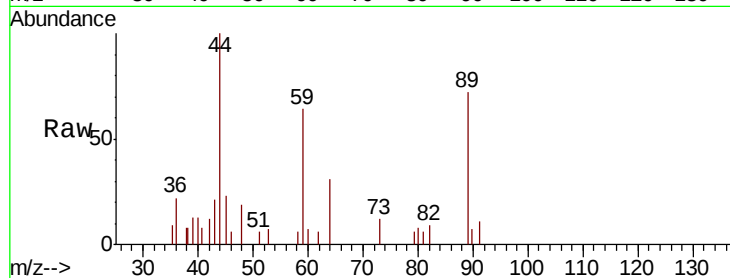


#11

Tert butyl alcohol
Concen: 2.087 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-2

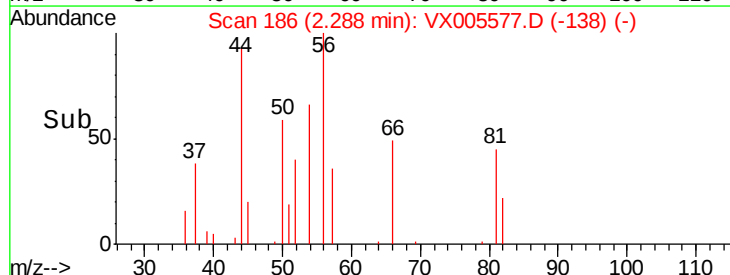
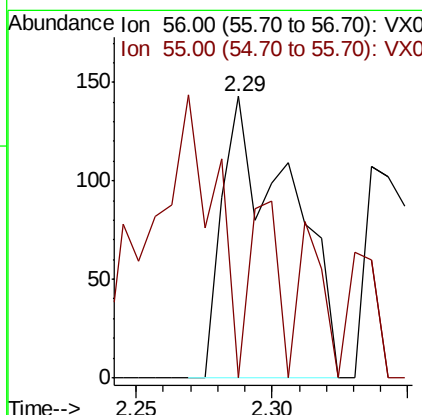
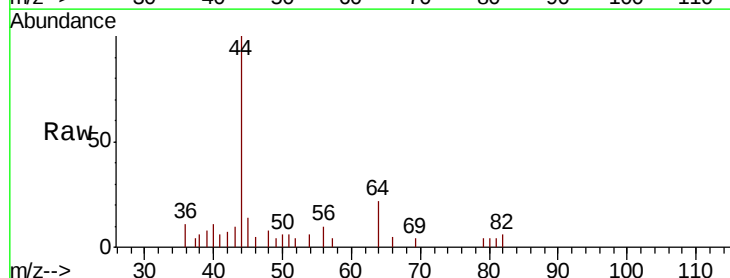
Tot Ion: 59 Resp: 1371
Ion Ratio Lower Upper
59 100
57 1.5 8.2 12.4#

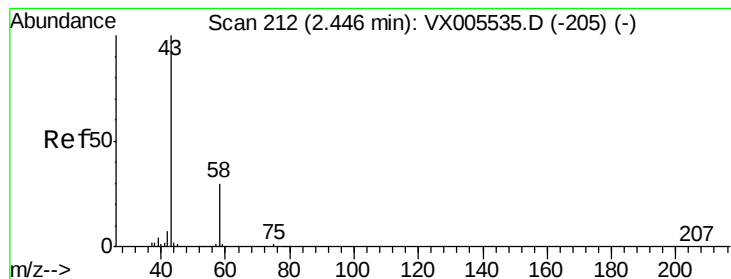


#13

Acrolein
Concen: 0.734 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

Tgt Ion: 56 Resp: 246
Ion Ratio Lower Upper
56 100
55 26.0 54.7 82.1#





#16

Acetone

Concen: 7.516 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

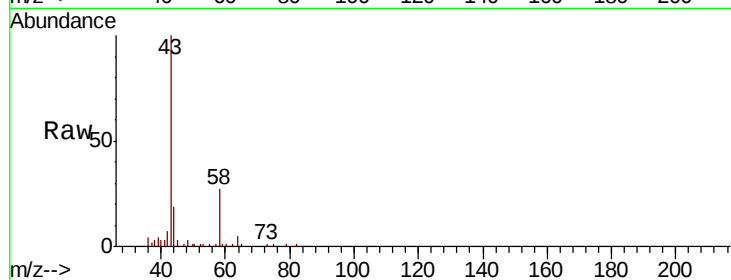
BS-SOIL-2

Tot Ion: 43 Resp: 9696

Ion Ratio Lower Upper

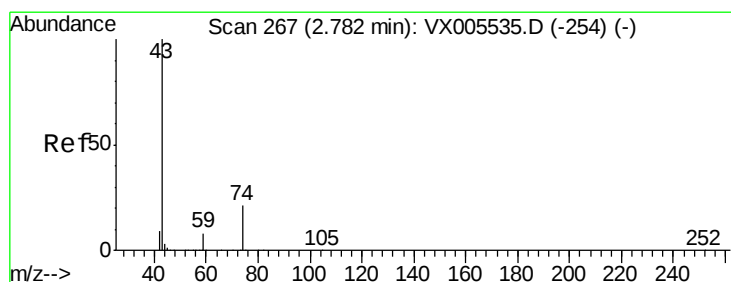
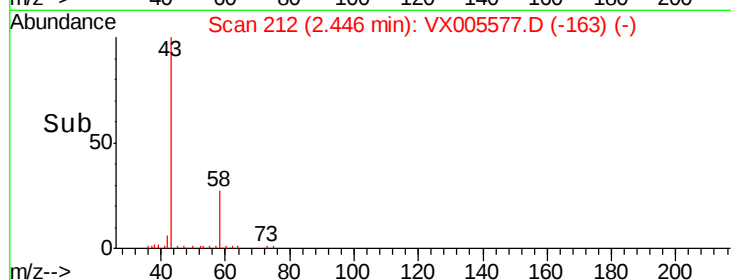
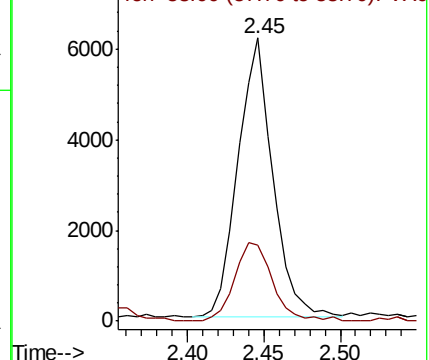
43 100

58 27.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.074 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005577.D

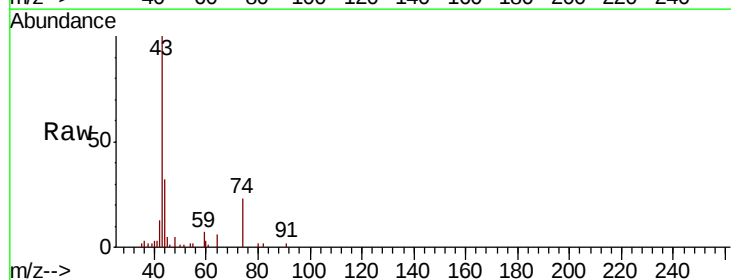
Acq: 25 Oct 2018 08:04

Tgt Ion: 43 Resp: 7982

Ion Ratio Lower Upper

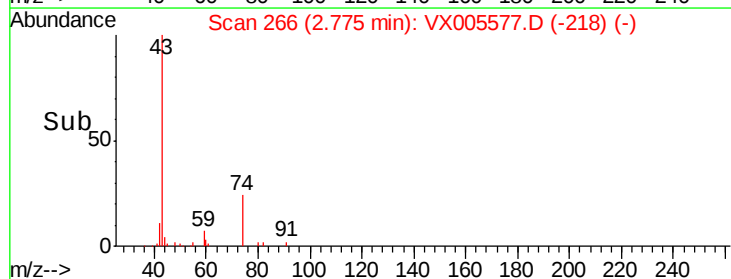
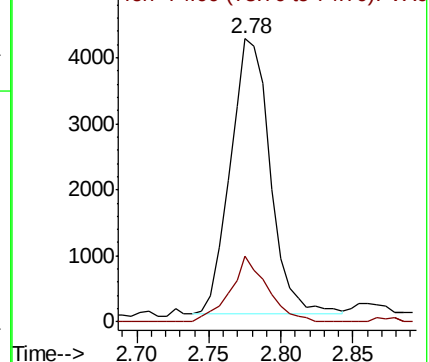
43 100

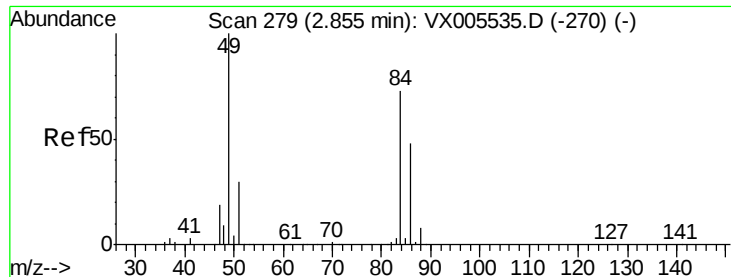
74 22.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

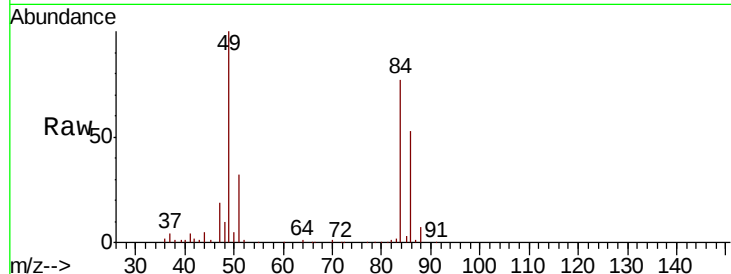




#20
Methylene Chloride
Concen: 14.070 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-2

Tot Ion	84	Resp	30398
Ion	Ratio	Lower	Upper
84	100		
49	129.3	101.2	151.8
51	40.8	29.5	44.3
86	67.9	52.3	78.5



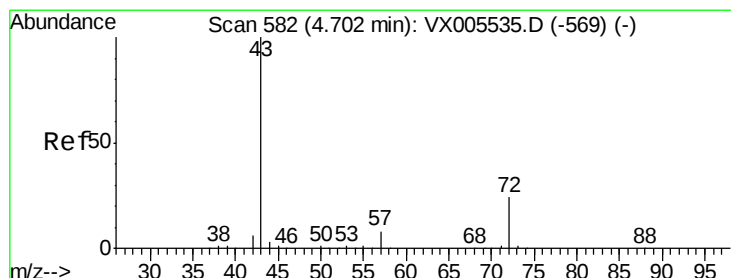
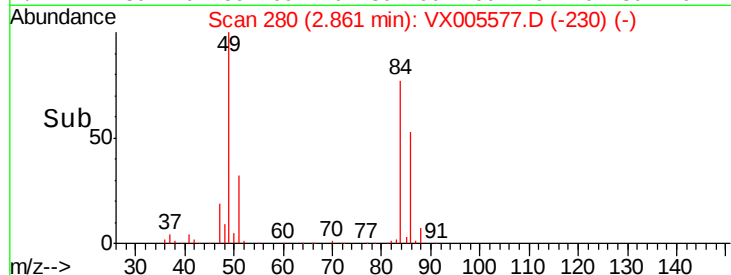
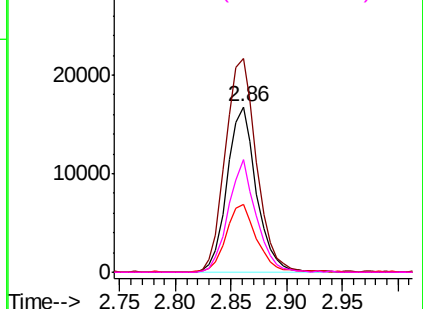
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

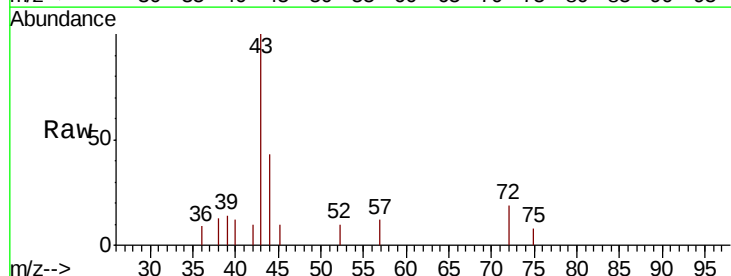
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 1.058 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

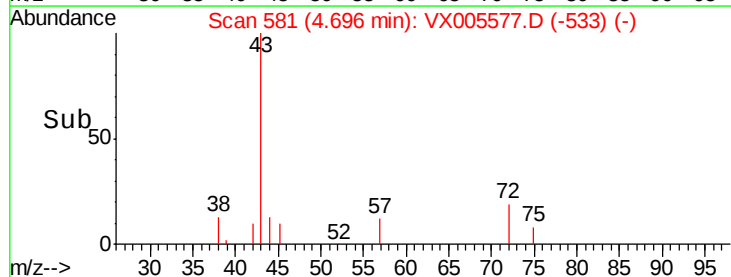
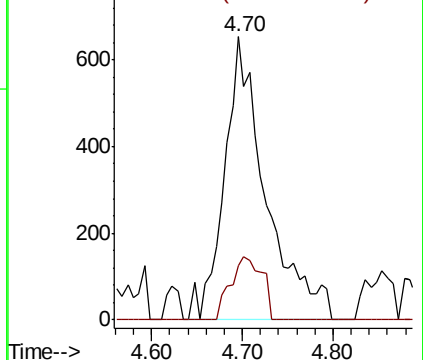
Tgt Ion	43	Resp	2079
Ion	Ratio	Lower	Upper
43	100		
72	19.3	22.0	33.0#

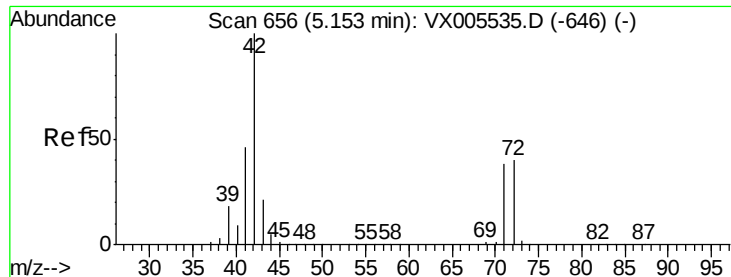


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.737 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

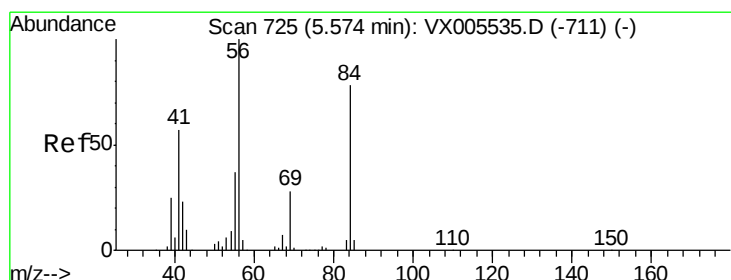
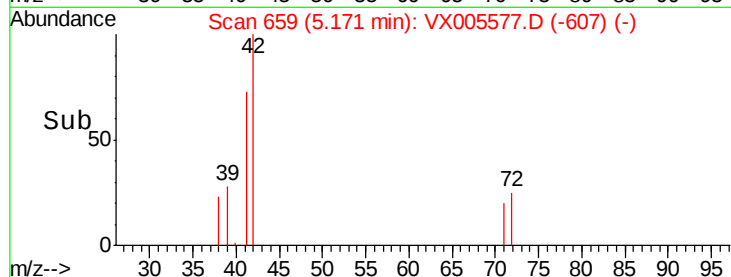
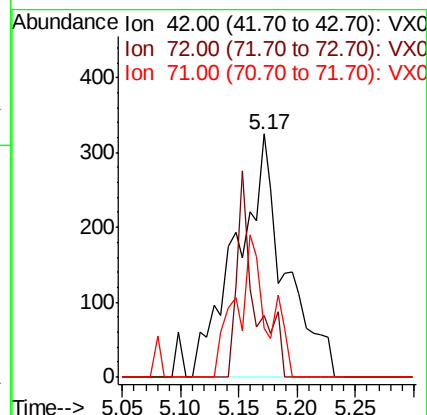
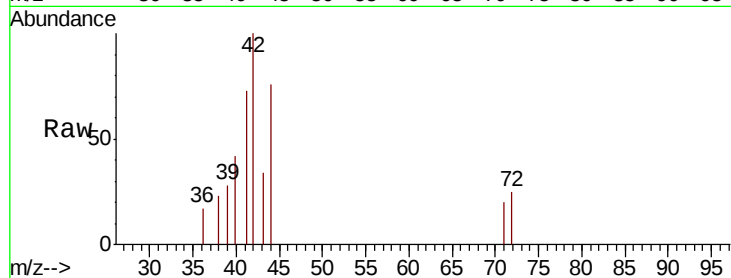
Tot Ion: 42 Resp: 942

Ion Ratio Lower Upper

42 100

72 31.4 37.4 56.0#

71 30.7 34.5 51.7#



#31

Cyclohexane

Concen: 1.196 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

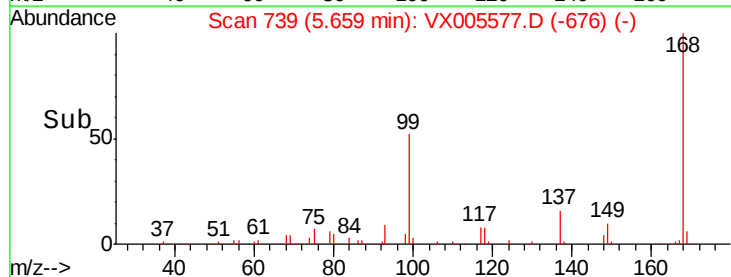
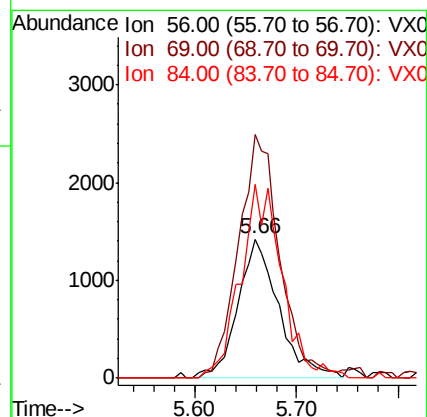
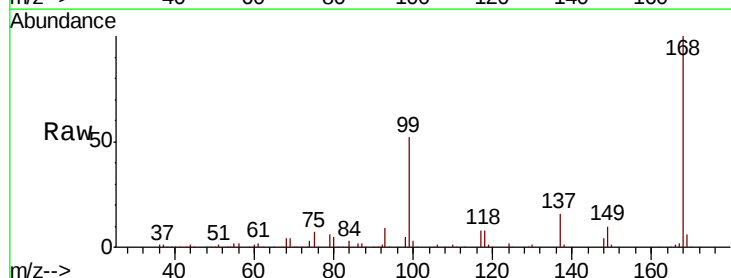
Tgt Ion: 56 Resp: 3938

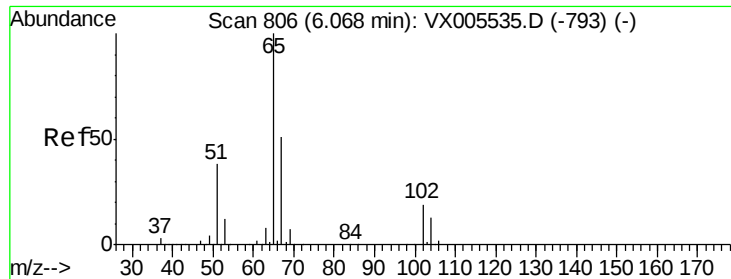
Ion Ratio Lower Upper

56 100

69 175.5 25.4 38.2#

84 139.5 71.4 107.2#

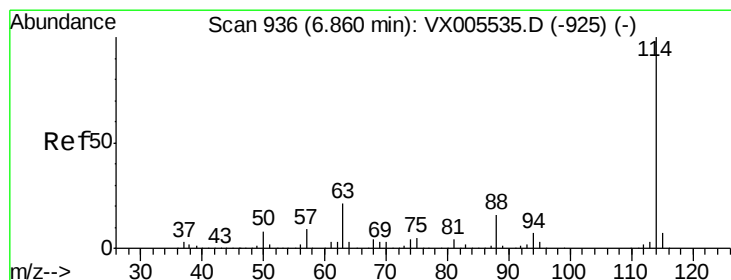
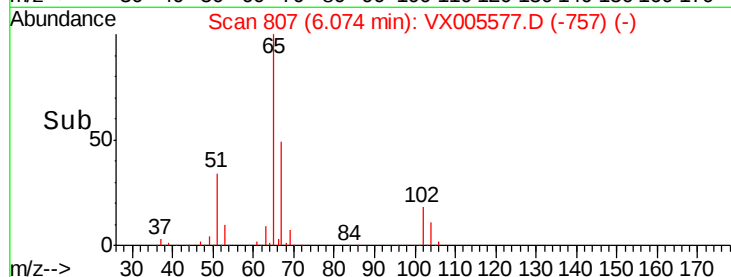
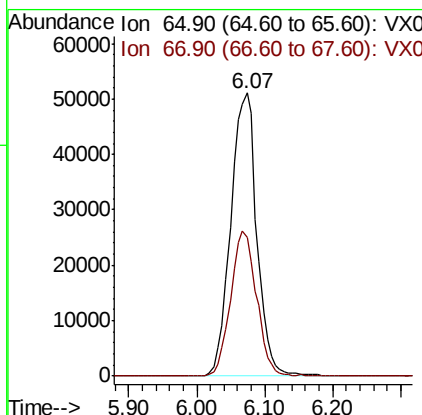
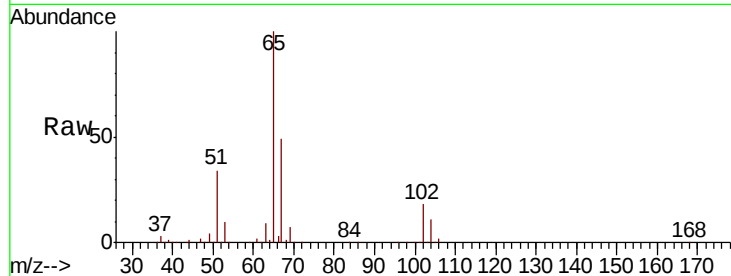




#33
 1,2-Dichloroethane-d4
 Concen: 55.644 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX005577.D
 Acq: 25 Oct 2018 08:04

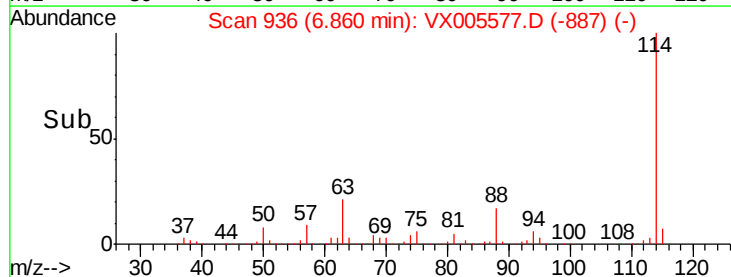
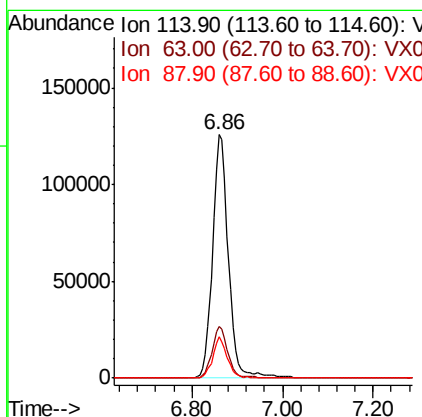
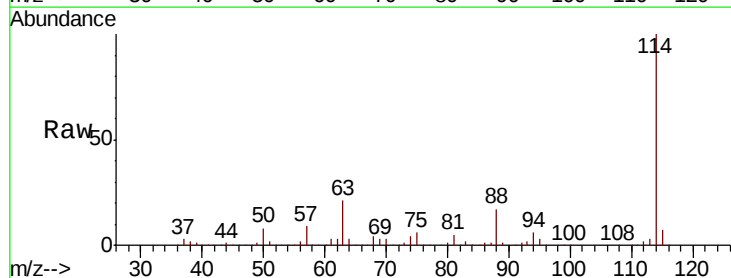
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

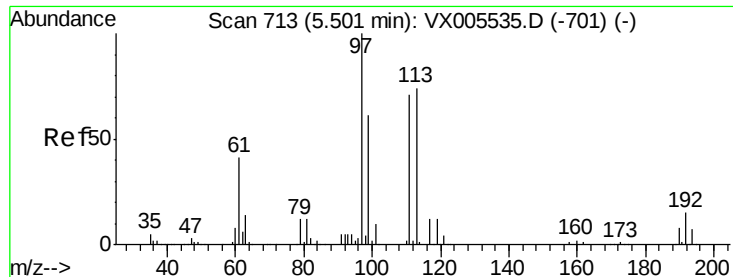
Tot Ion: 65 Resp: 135842
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005577.D
 Acq: 25 Oct 2018 08:04

Tgt Ion: 114 Resp: 309773
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 39.0
 88 17.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.358 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampled :

BS-SOIL-2

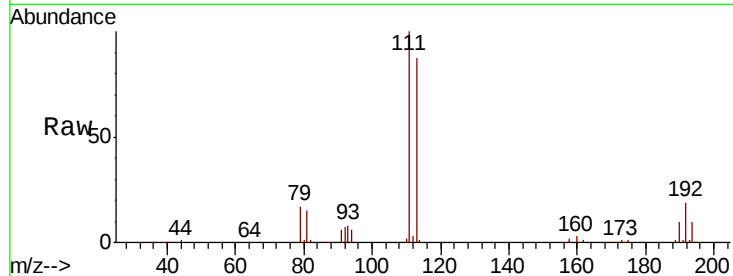
Tot Ion:113 Resp: 101432

Ion Ratio Lower Upper

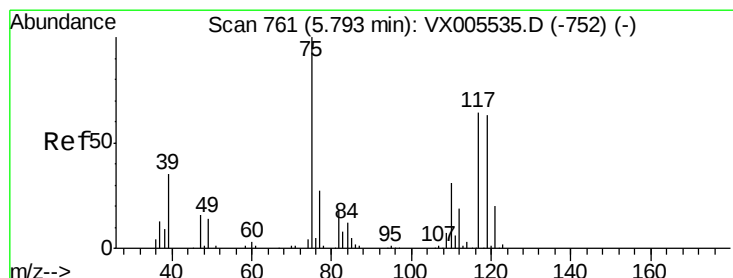
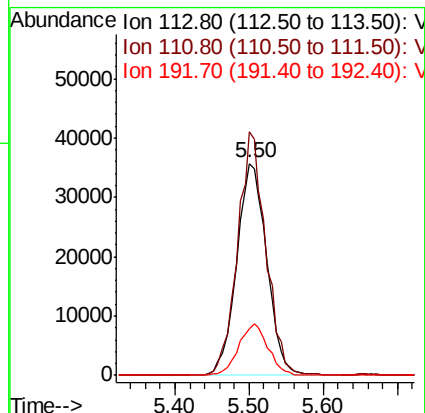
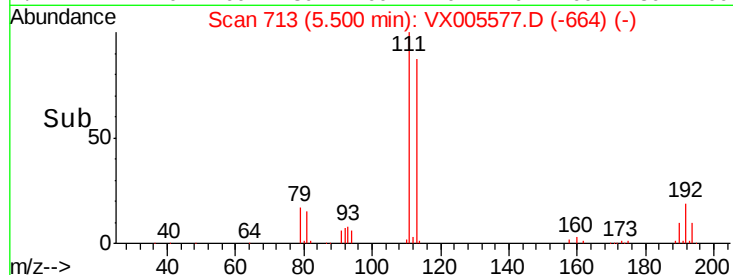
113 100

111 107.6 82.4 123.6

192 23.8 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.807 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

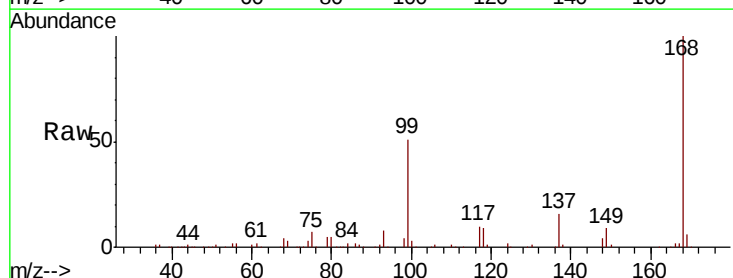
Tgt Ion: 75 Resp: 14452

Ion Ratio Lower Upper

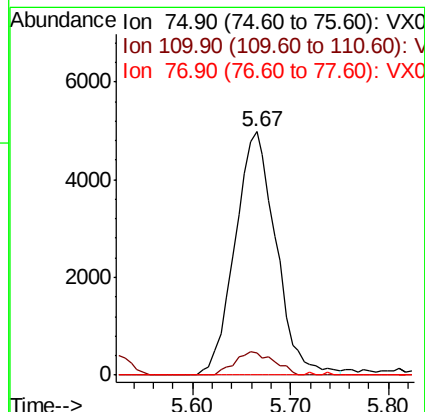
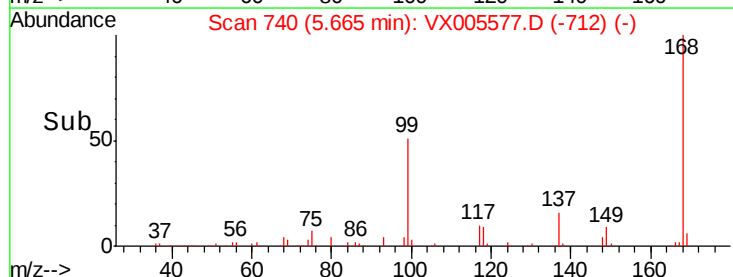
75 100

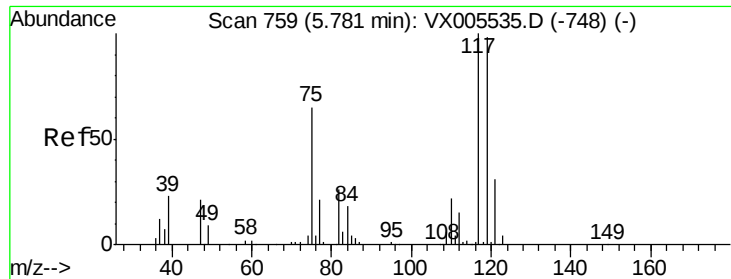
110 9.3 18.0 54.0#

77 0.0 24.6 36.8#



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

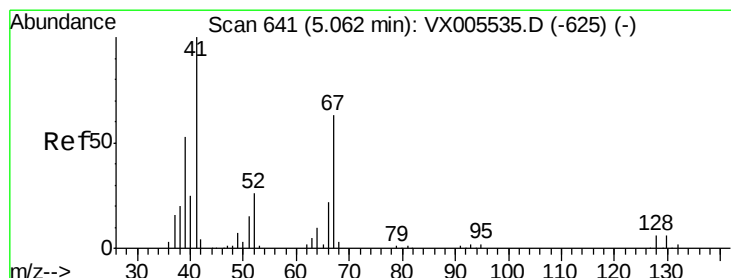
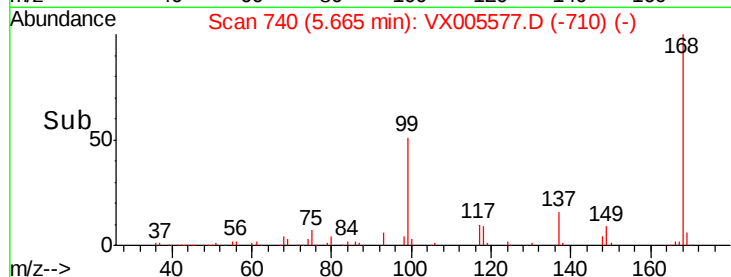
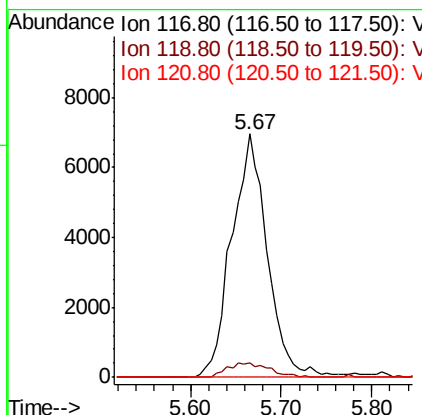
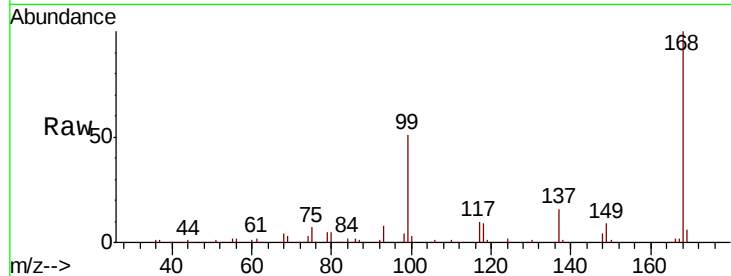




#38
Carbon Tetrachloride
Concen: 5.989 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

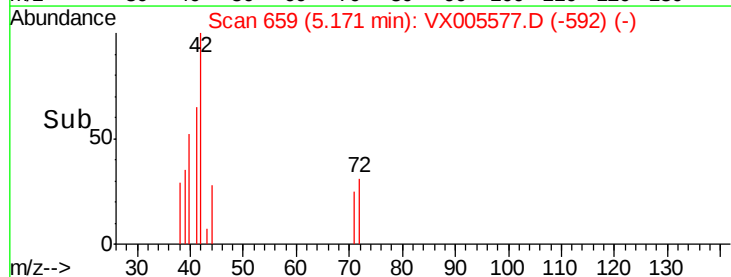
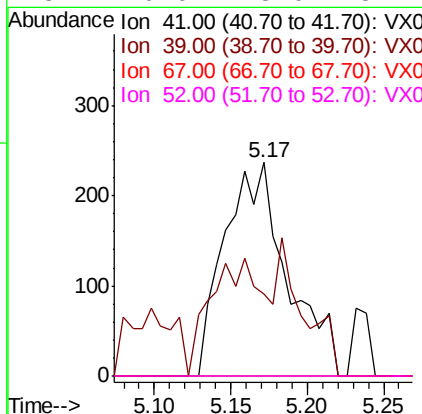
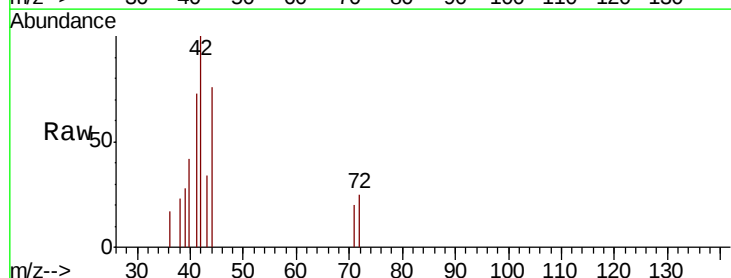
Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-2

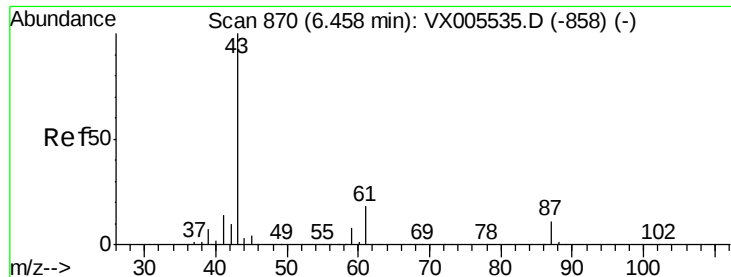
Tot Ion:117 Resp: 18963
Ion Ratio Lower Upper
117 100
119 6.2 78.8 118.2#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 0.315 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.11 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

Tgt Ion: 41 Resp: 674
Ion Ratio Lower Upper
41 100
39 47.2 42.4 63.6
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#



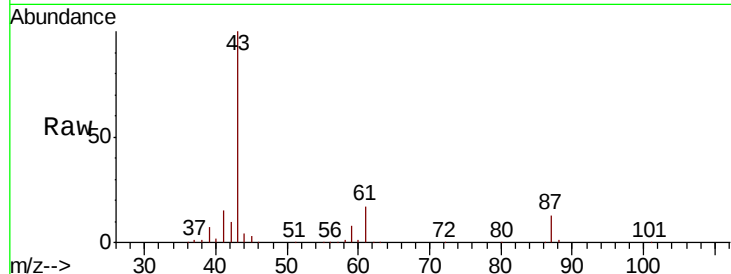


#43

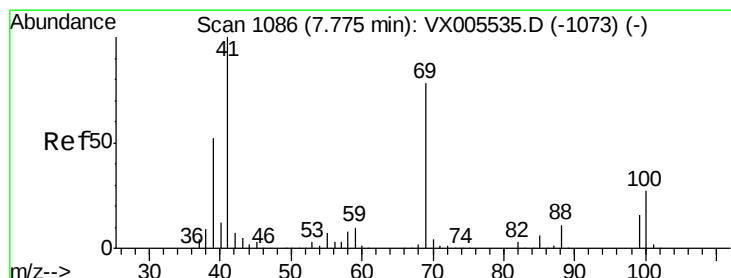
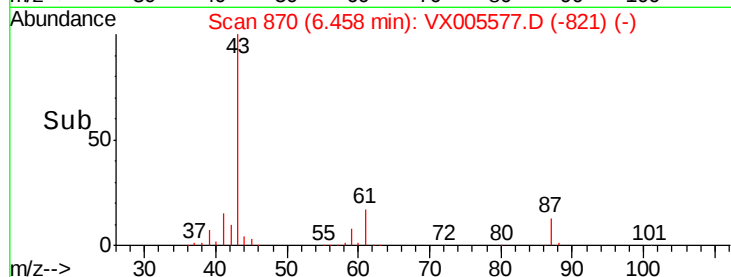
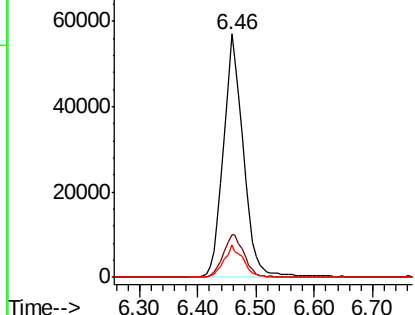
Isopropyl Acetate
 Concen: 23.871 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX005577.D
 Acq: 25 Oct 2018 08:04

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-2

Tot Ion	43	Resp	137223
Ion Ratio	Lower	Upper	
43	100		
61	18.4	17.0	25.4
87	12.5	11.4	17.2



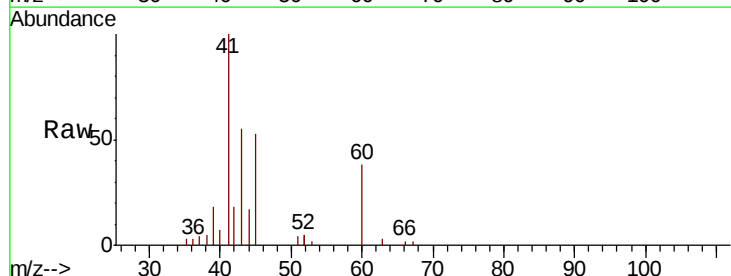
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



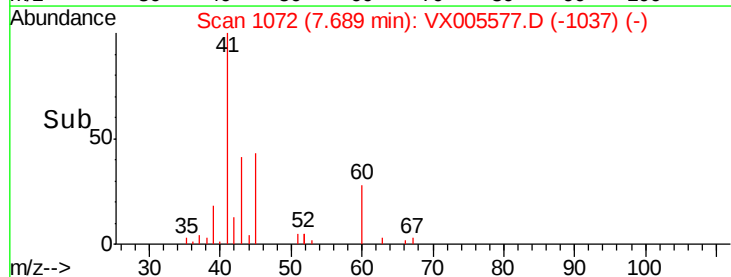
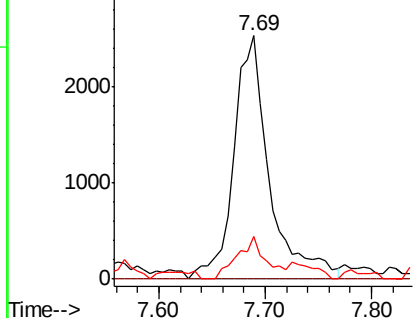
#48

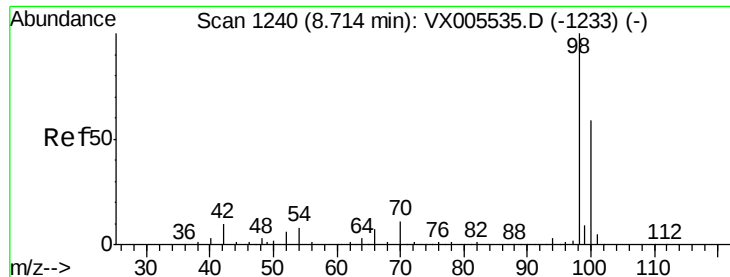
Methyl methacrylate
 Concen: 2.113 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005577.D
 Acq: 25 Oct 2018 08:04

Tgt Ion	41	Resp	5917
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	14.2	42.7	64.1#



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





#50

Toluene-d8

Concen: 50.141 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

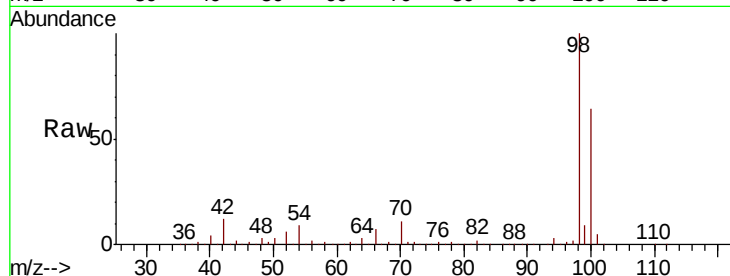
BS-SOIL-2

Tot Ion: 98 Resp: 377906

Ion Ratio Lower Upper

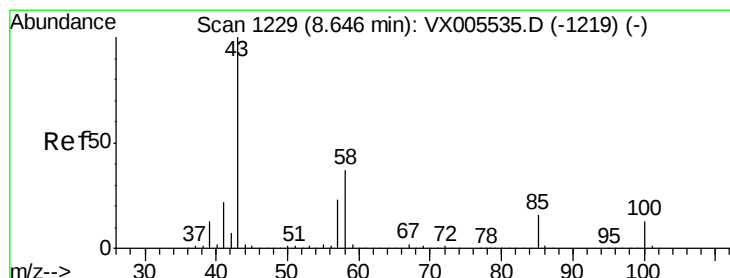
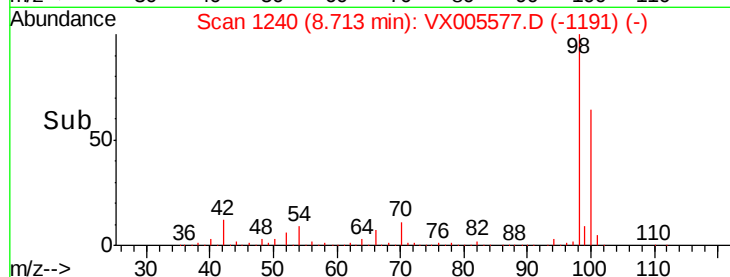
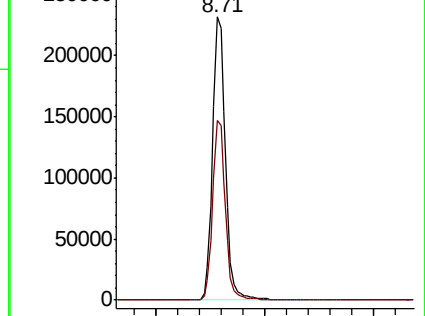
98 100

100 63.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.466 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005577.D

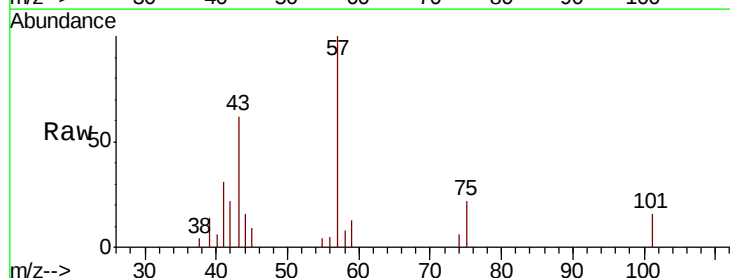
Acq: 25 Oct 2018 08:04

Tgt Ion: 43 Resp: 1801

Ion Ratio Lower Upper

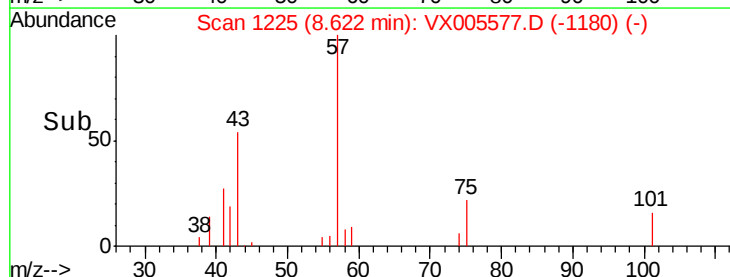
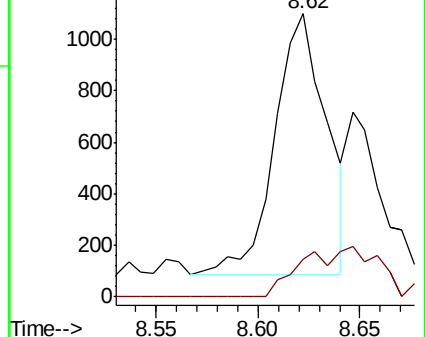
43 100

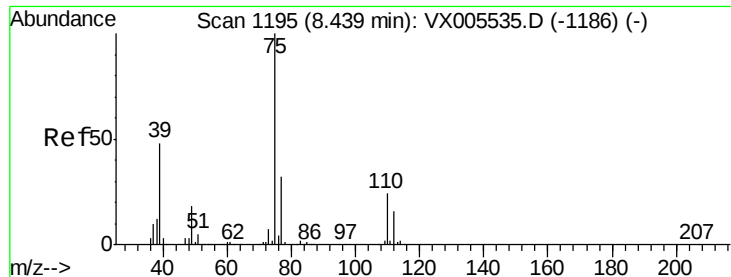
58 12.2 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 0.252 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

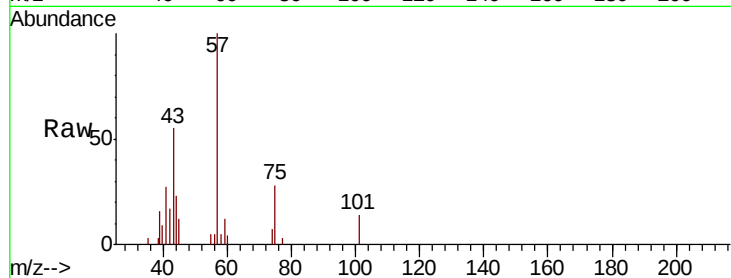
Tot Ion: 75 Resp: 852

Ion Ratio Lower Upper

75 100

77 11.2 26.2 39.2#

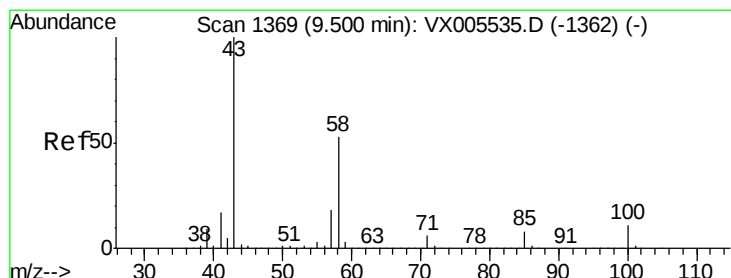
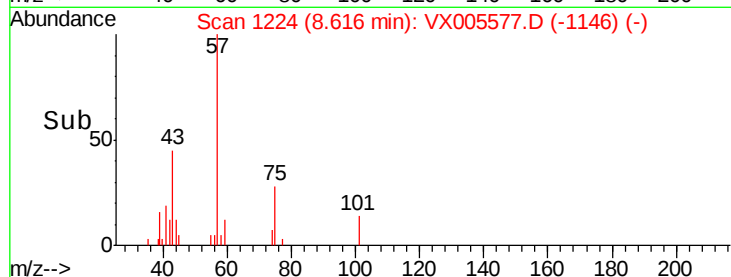
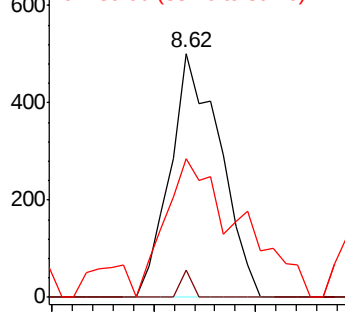
39 43.3 36.4 54.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 2.652 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005577.D

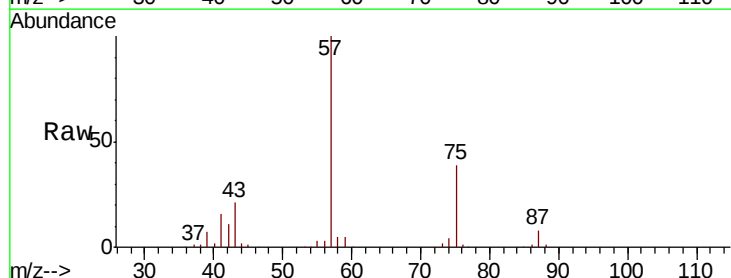
Acq: 25 Oct 2018 08:04

Tgt Ion: 43 Resp: 8078

Ion Ratio Lower Upper

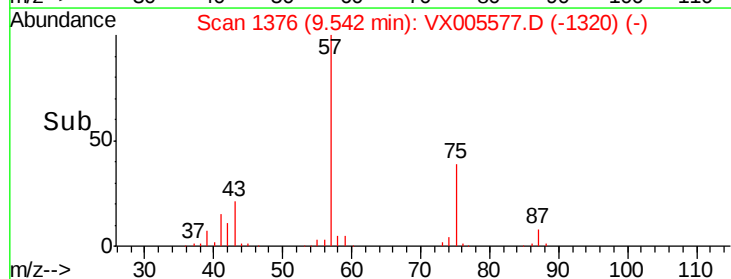
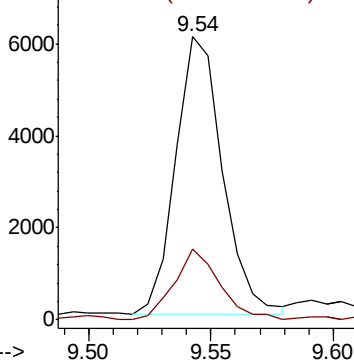
43 100

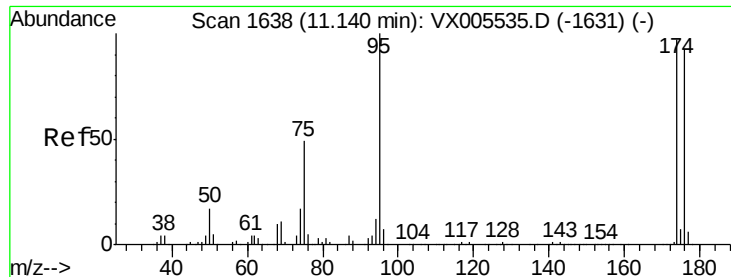
58 24.5 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

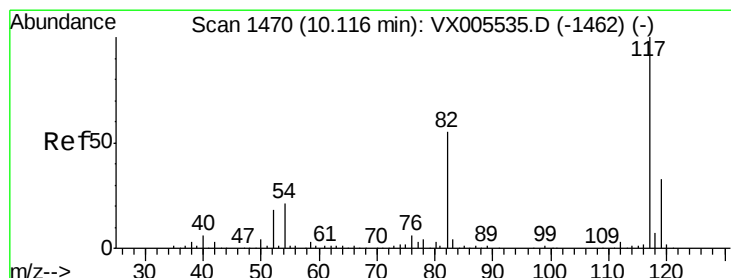
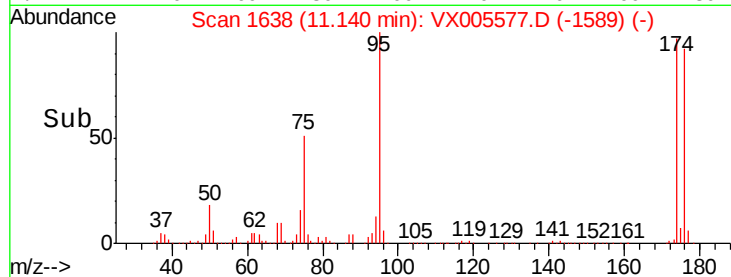
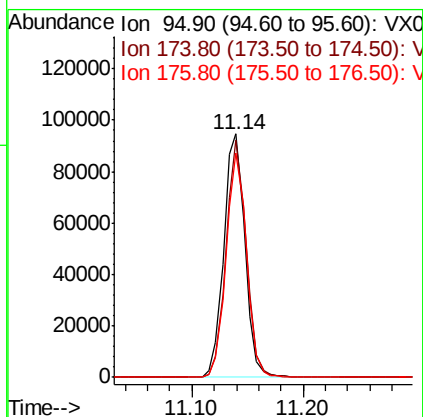
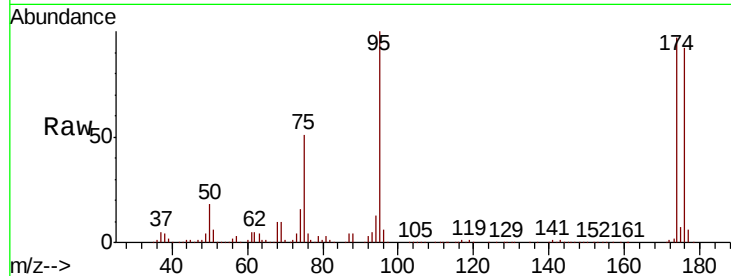




#62
4-Bromofluorobenzene
Concen: 43.610 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

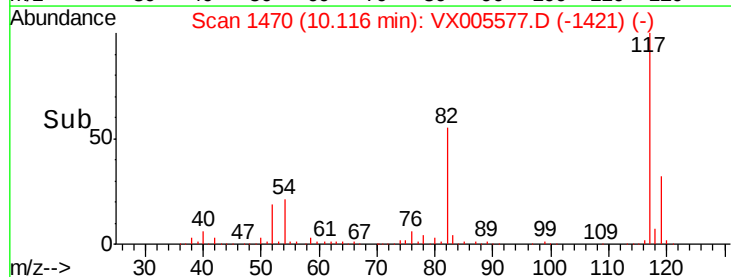
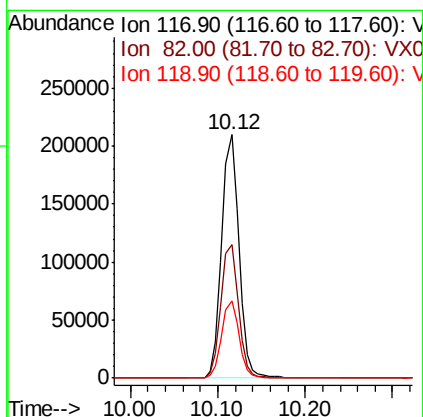
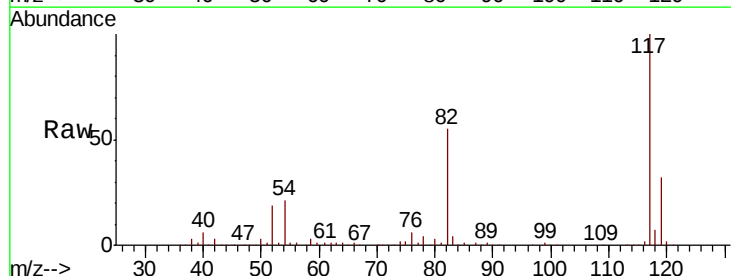
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-2

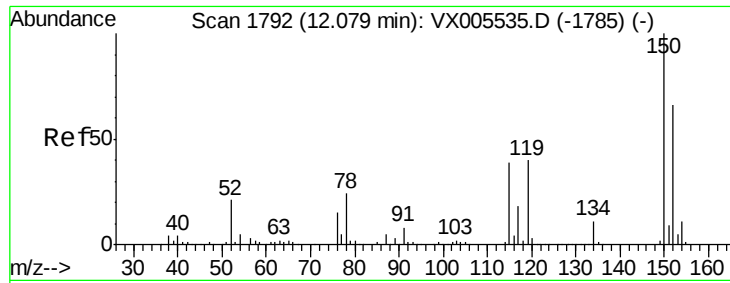
Tot Ion: 95 Resp: 124125
Ion Ratio Lower Upper
95 100
174 93.4 0.0 185.2
176 89.3 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005577.D
Acq: 25 Oct 2018 08:04

Tgt Ion: 117 Resp: 286773
Ion Ratio Lower Upper
117 100
82 54.8 47.8 71.6
119 32.0 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

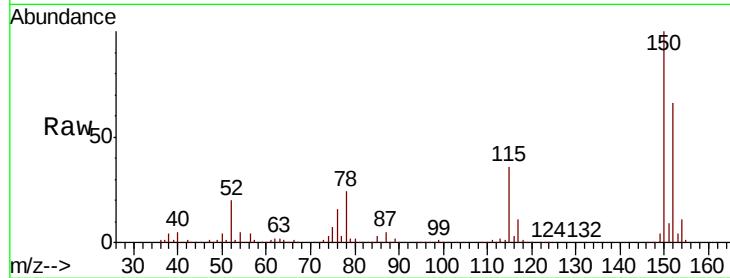
Tot Ion:152 Resp: 134431

Ion Ratio Lower Upper

152 100

115 55.4 39.0 117.0

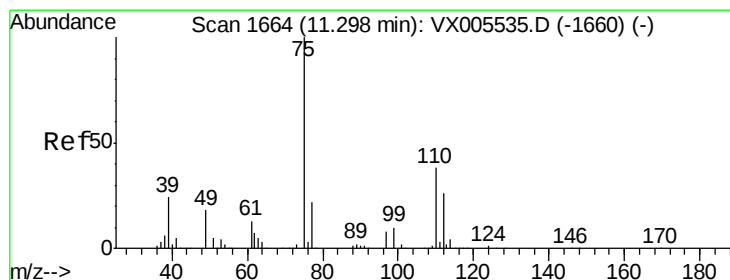
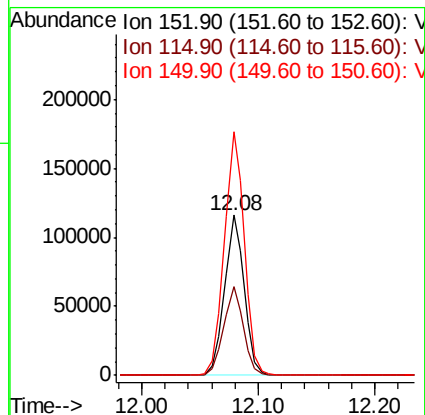
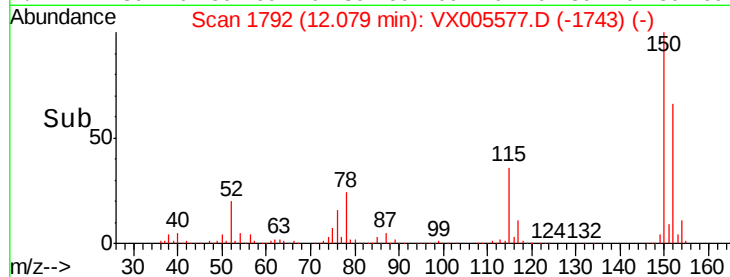
150 154.4 0.0 351.0



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: 22.834 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005577.D

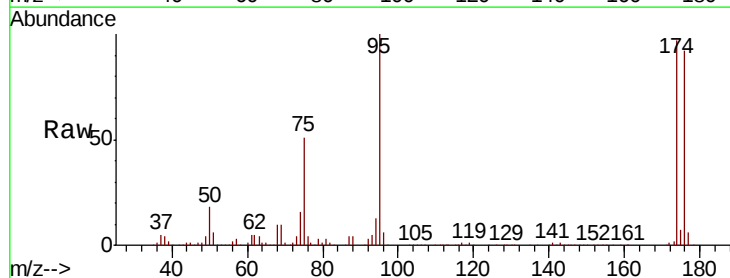
Acq: 25 Oct 2018 08:04

Tgt Ion: 75 Resp: 62523

Ion Ratio Lower Upper

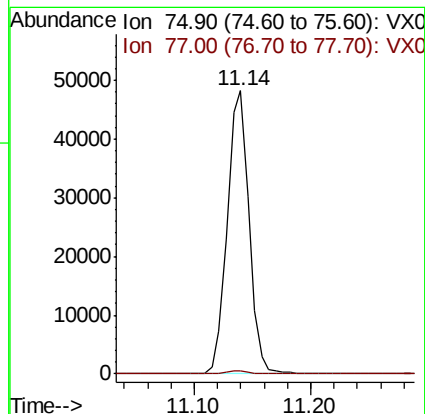
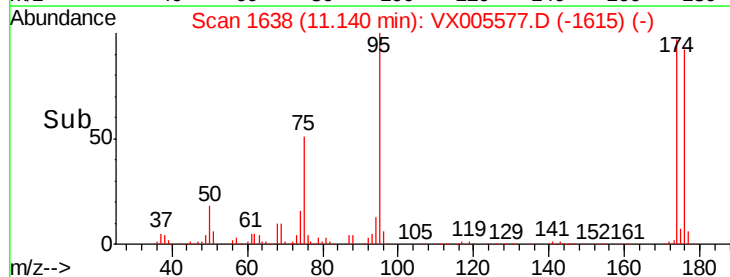
75 100

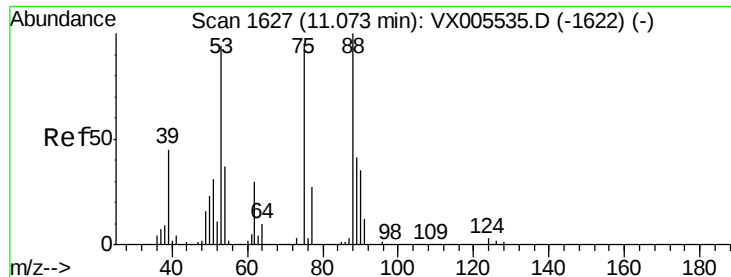
77 1.3 20.2 60.6#



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: 71.726 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-2

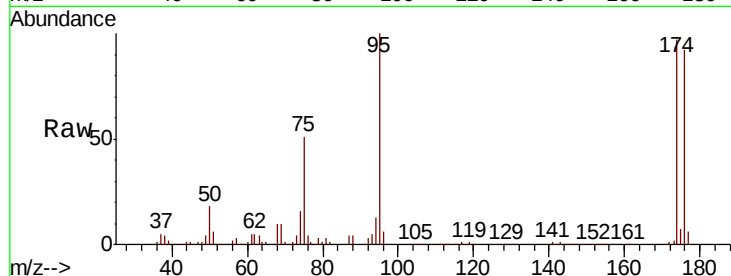
Tot Ion: 75 Resp: 62523

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

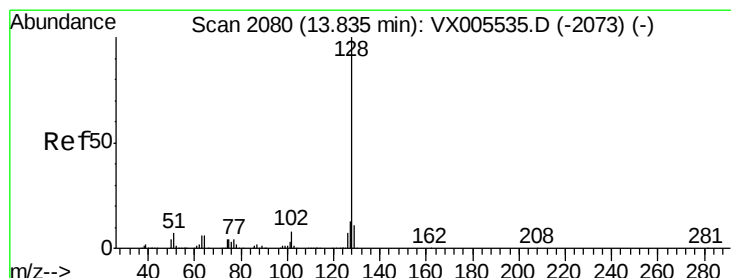
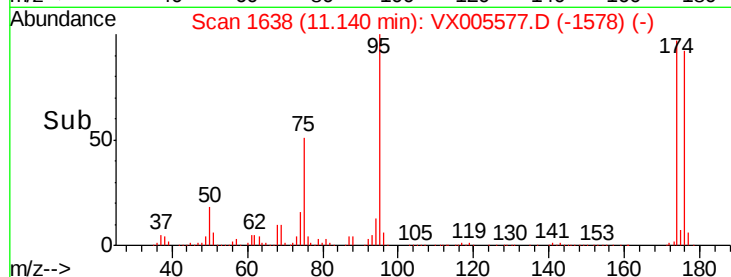
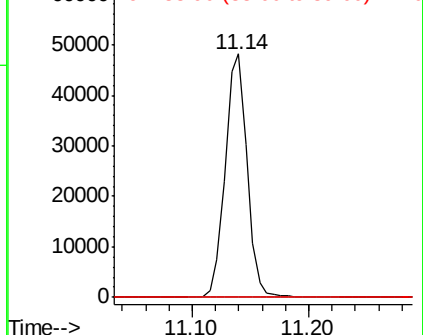
89 0.0 37.2 55.8#



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



#95

Naphthalene

Concen: 0.918 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005577.D

Acq: 25 Oct 2018 08:04

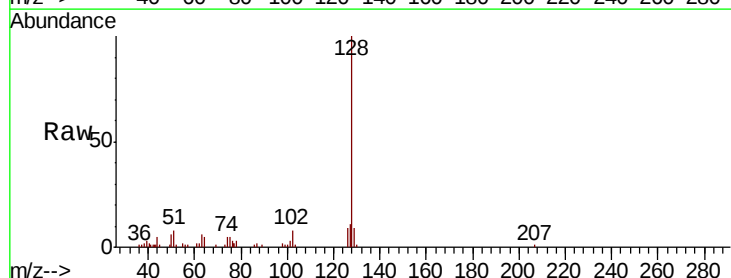
Tgt Ion:128 Resp: 8430

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

129 10.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

