

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005478.D
 Acq On : 22 Oct 2018 18:46
 Operator : JC/MD
 Sample : J5606-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-PILE

Quant Time: Oct 23 01:28:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	227196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	336407	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304524	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151372	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	147919	58.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.32%	
35) Dibromofluoromethane	5.49	113	115098	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
50) Toluene-d8	8.72	98	401946	52.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.10%	
62) 4-Bromofluorobenzene	11.14	95	132573	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	

Target Compounds

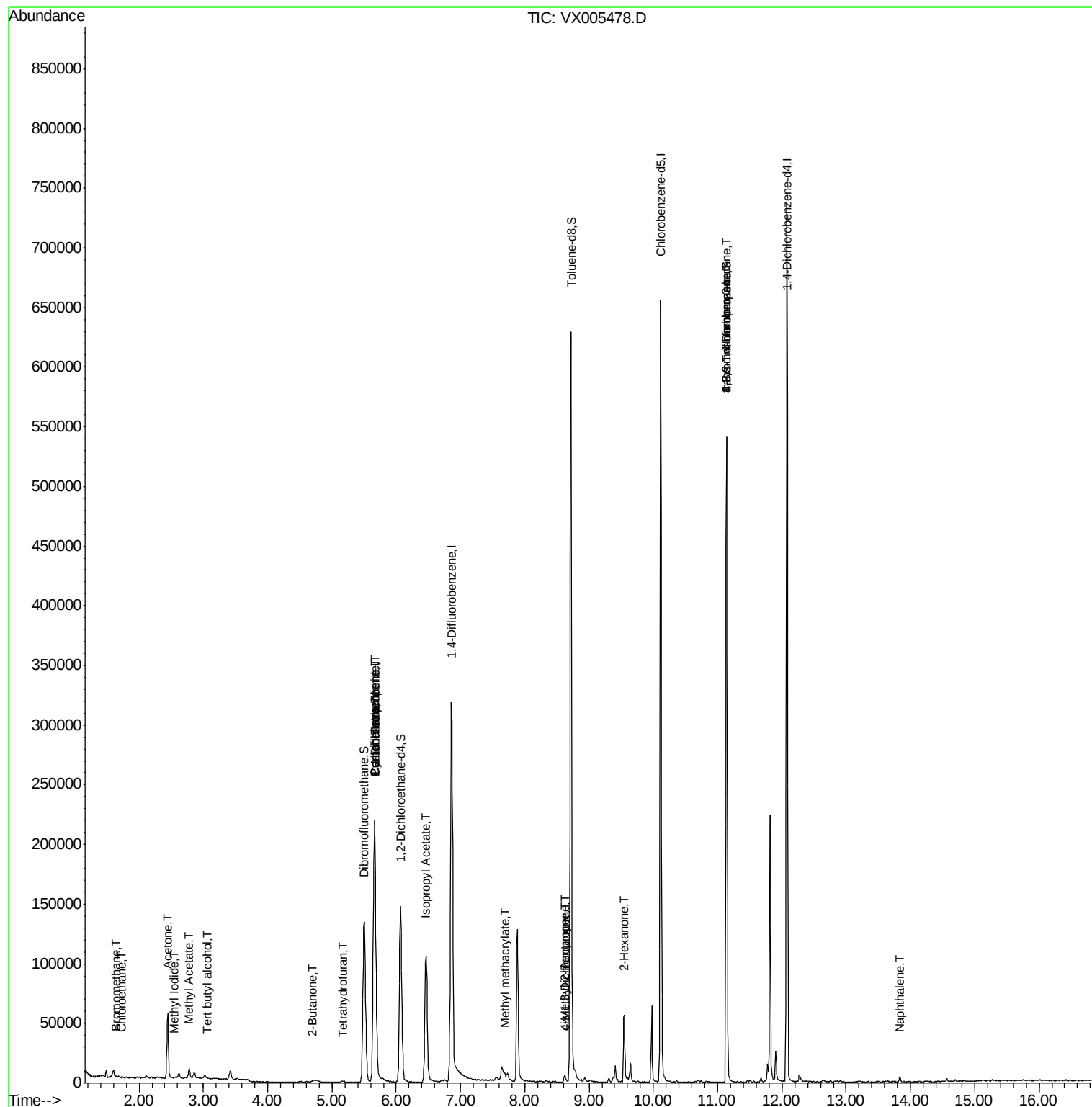
					Qvalue	
5) Bromomethane	1.65	94	163	0.694	ug/l	95
6) Chloroethane	1.72	64	95	0.390	ug/l #	44
10) Methyl Iodide	2.53	142	38	2.505	ug/l #	82
11) Tert butyl alcohol	3.07	59	361	0.508	ug/l #	3
13) Acrolein	2.29	56	161	Below Cal		99
16) Acetone	2.45	43	55366	37.976	ug/l #	87
18) Methyl Acetate	2.78	43	9367	2.258	ug/l	95
20) Methylene Chloride	2.85	84	2060	Below Cal	#	78
25) 2-Butanone	4.71	43	3131	1.468	ug/l	97
29) Tetrahydrofuran	5.17	42	1139	0.837	ug/l #	70
31) Cyclohexane	5.67	56	4189	1.209	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15786	4.845	ug/l #	49
38) Carbon Tetrachloride	5.66	117	20945	6.398	ug/l #	15
43) Isopropyl Acetate	6.45	43	152771	27.371	ug/l	94
44) Trichloroethene	7.21	130	20	Below Cal		96
48) Methyl methacrylate	7.68	41	6205	2.143	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2549	0.660	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	929	0.271	ug/l #	68
59) 2-Hexanone	9.55	43	7403	2.381	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	66762	22.738	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	66762	69.088	ug/l #	10
95) Naphthalene	13.83	128	2386	0.229	ug/l #	91

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

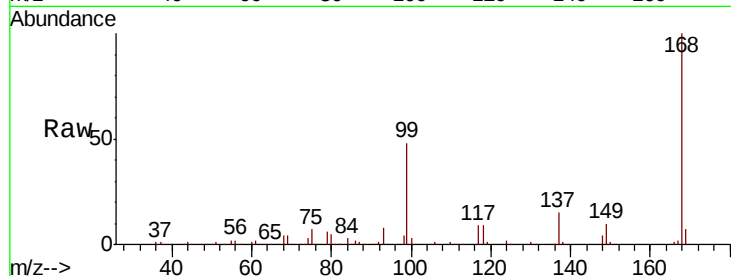
SOIL-PILE

Tot Ion:168 Resp: 227196

Ion Ratio Lower Upper

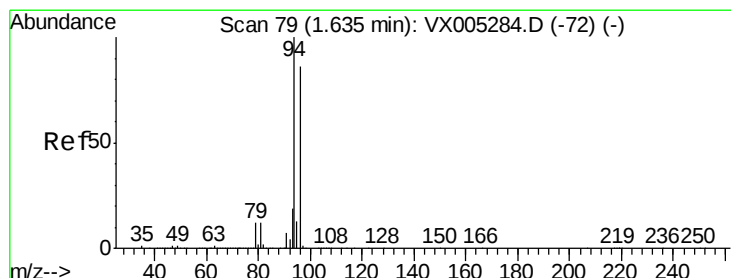
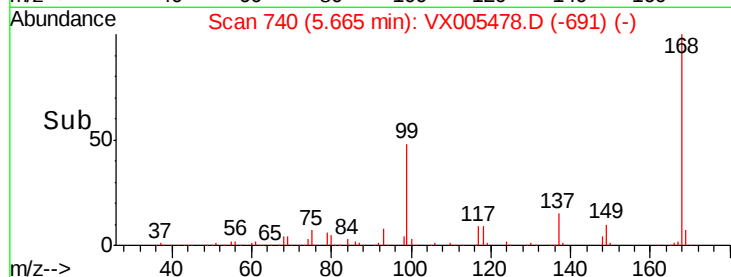
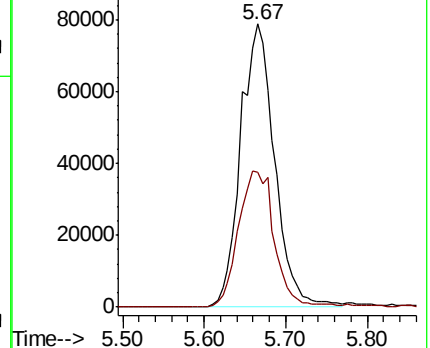
168 100

99 47.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.694 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005478.D

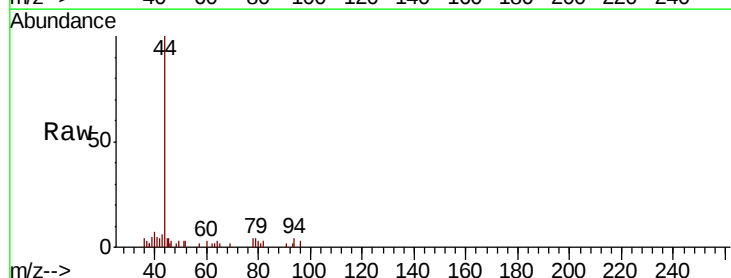
Acq: 22 Oct 2018 18:46

Tgt Ion: 94 Resp: 163

Ion Ratio Lower Upper

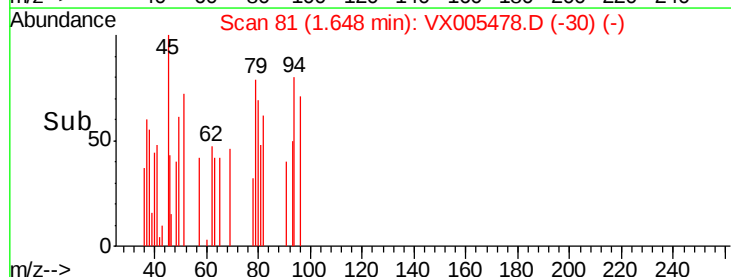
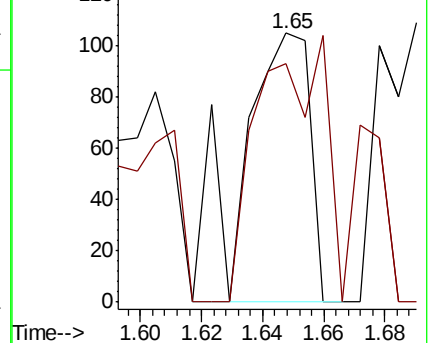
94 100

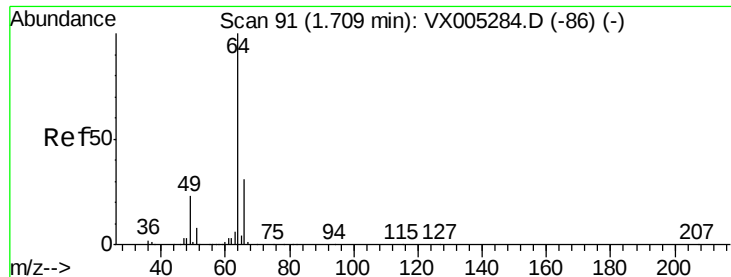
96 88.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.390 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

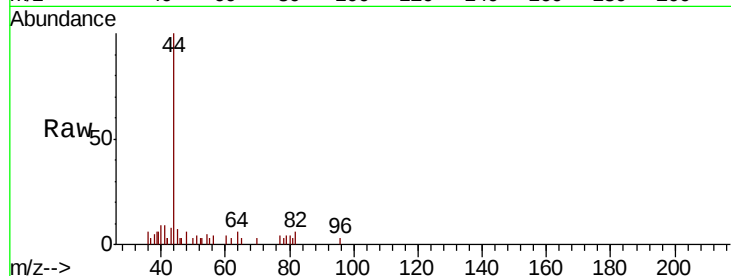
SOIL-PILE

Tot Ion: 64 Resp: 95

Ion Ratio Lower Upper

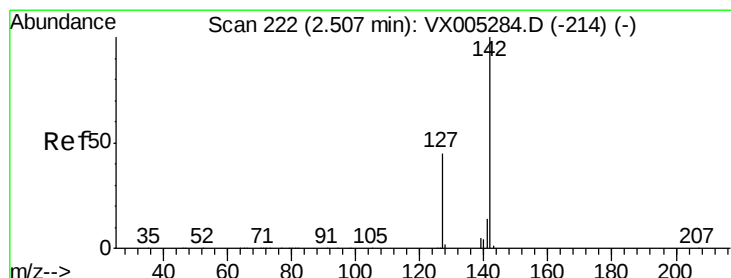
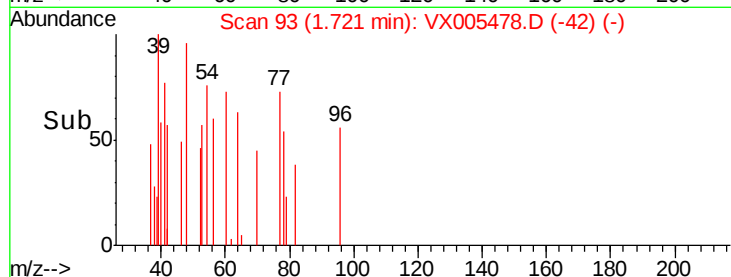
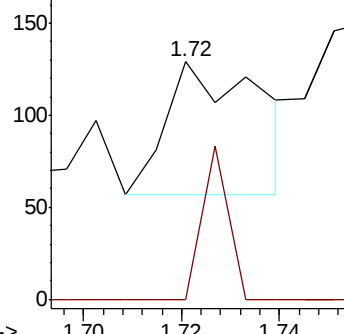
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.505 ug/l

RT: 2.53 min Scan# 226

Delta R.T. 0.02 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

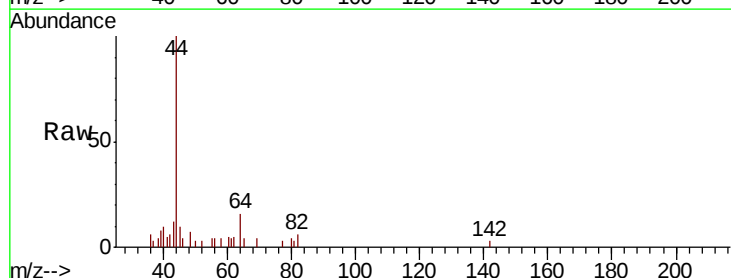
Tgt Ion: 142 Resp: 38

Ion Ratio Lower Upper

142 100

127 50.0 33.8 50.6

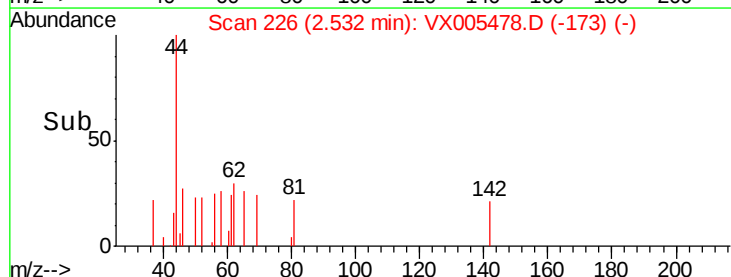
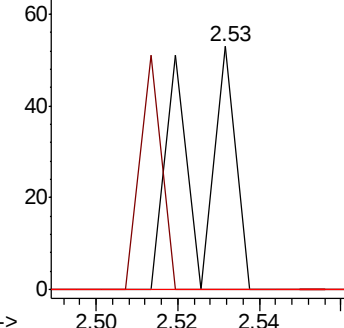
141 0.0 11.4 17.0#



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: 0.508 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

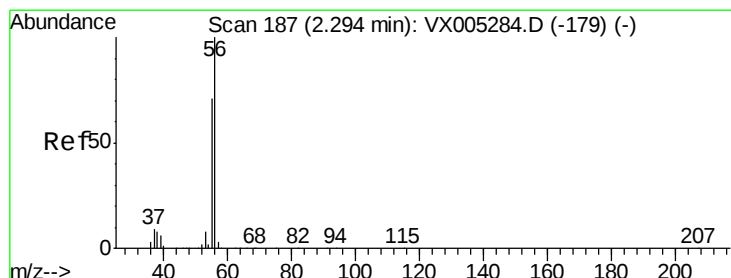
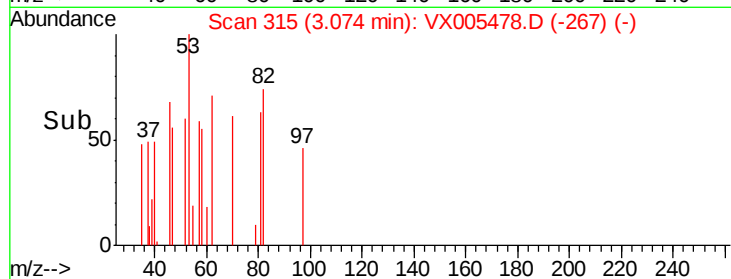
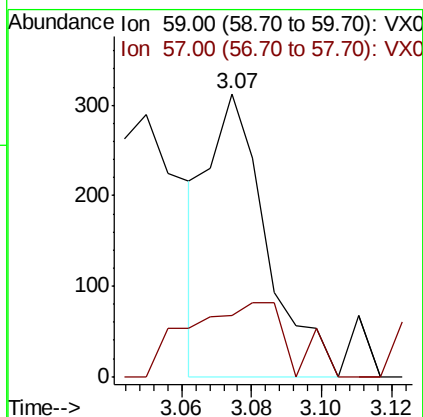
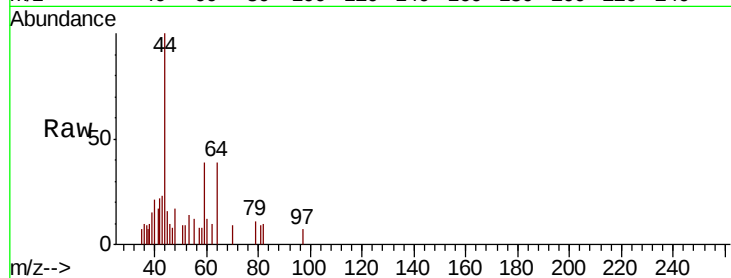
SOIL-PILE

Tot Ion: 59 Resp: 361

Ion Ratio Lower Upper

59 100

57 46.5 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005478.D

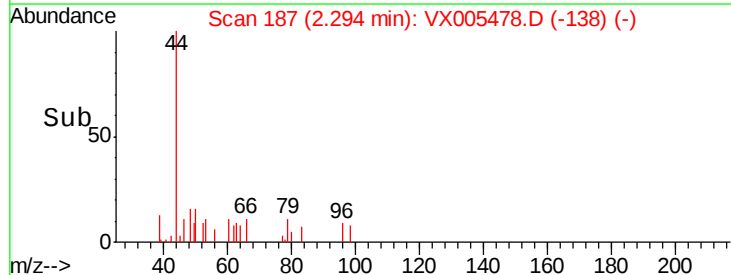
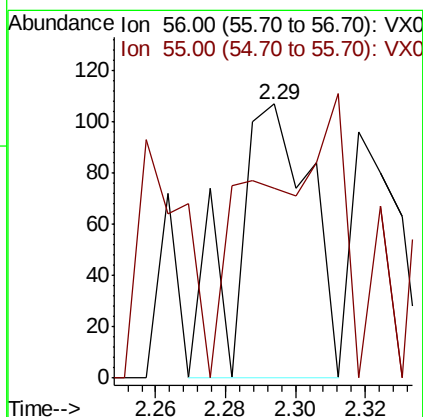
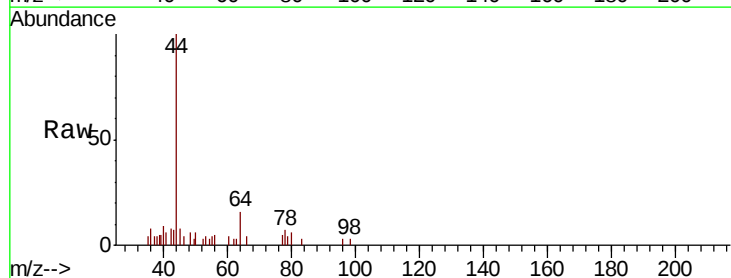
Acq: 22 Oct 2018 18:46

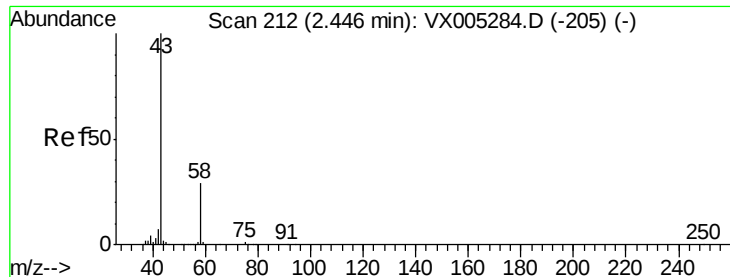
Tgt Ion: 56 Resp: 161

Ion Ratio Lower Upper

56 100

55 67.7 54.7 82.1

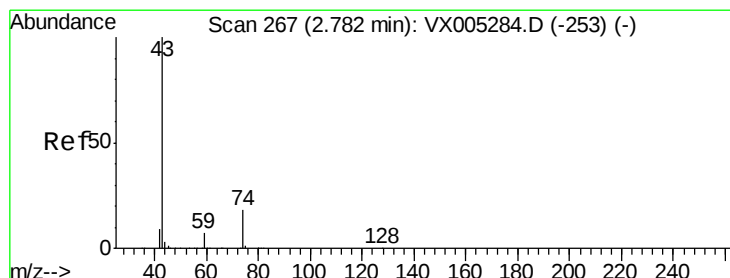
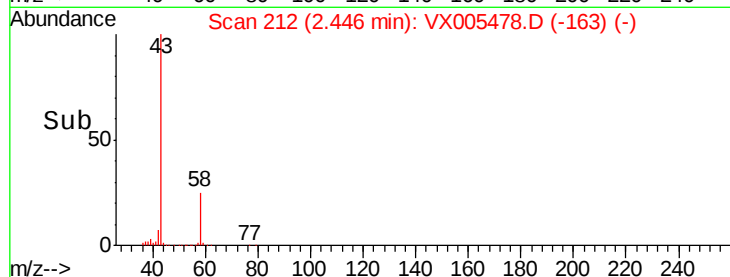
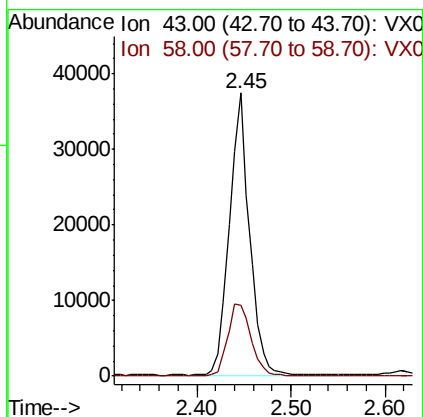
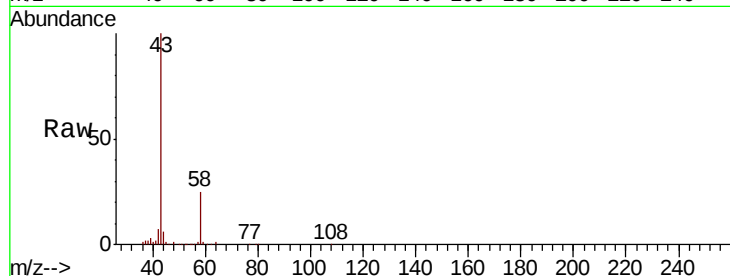




#16
Acetone
Concen: 37.976 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

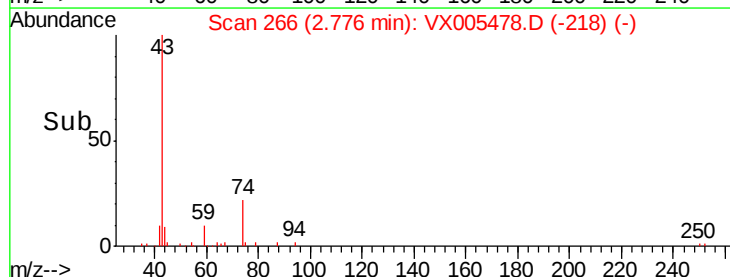
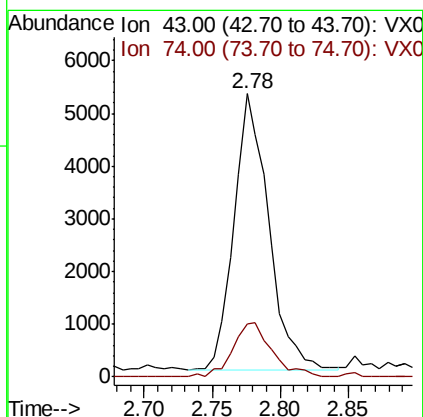
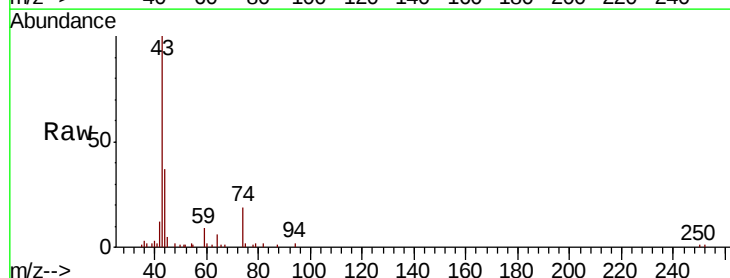
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

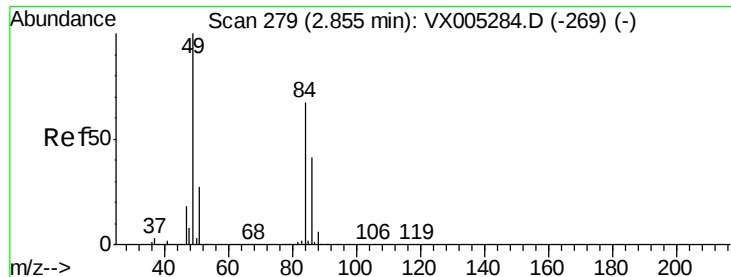
Tot Ion: 43 Resp: 55366
Ion Ratio Lower Upper
43 100
58 25.3 26.2 39.4#



#18
Methyl Acetate
Concen: 2.258 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

Tgt Ion: 43 Resp: 9367
Ion Ratio Lower Upper
43 100
74 21.9 19.4 29.2

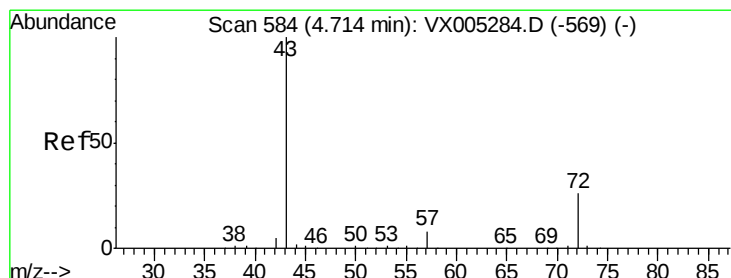
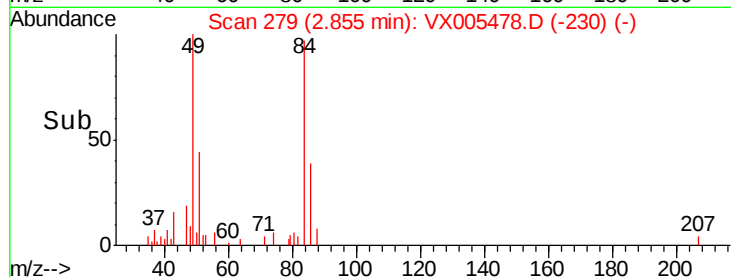
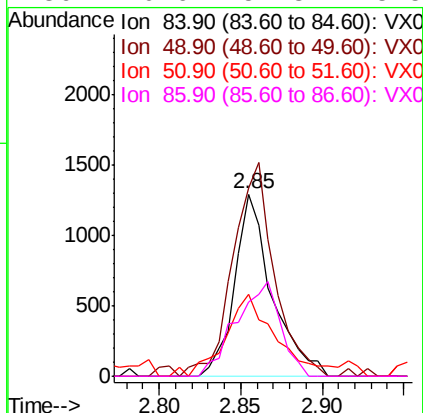
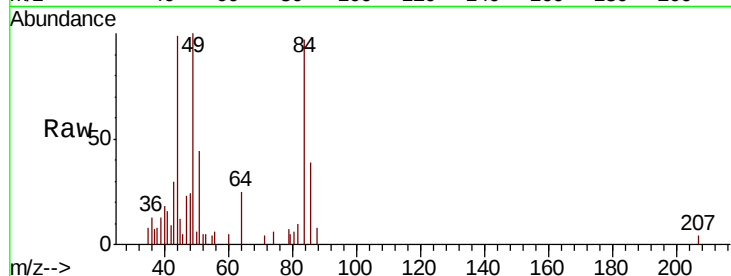




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

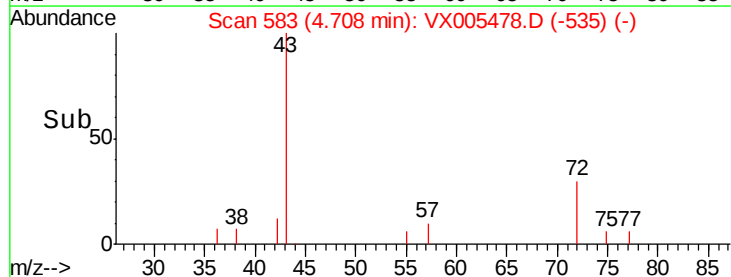
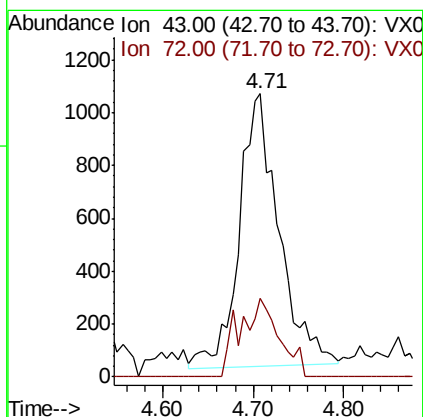
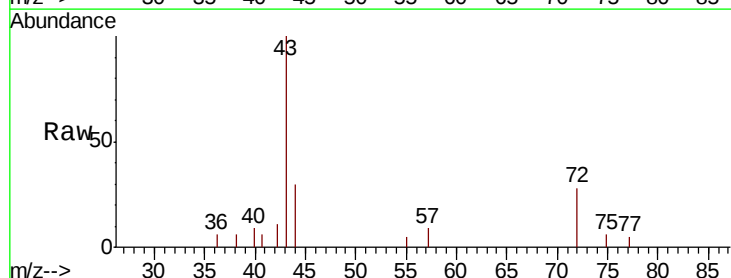
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

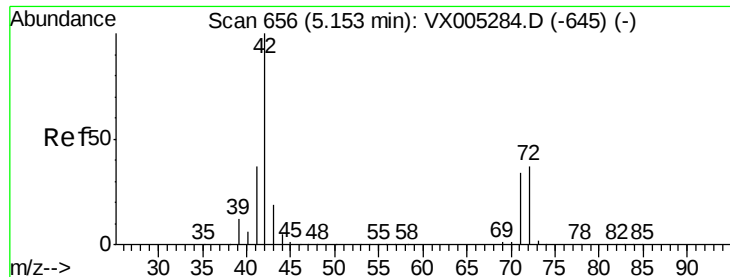
Tot Ion: 84 Resp: 2060
Ion Ratio Lower Upper
84 100
49 103.4 101.2 151.8
51 45.1 29.5 44.3#
86 40.6 52.3 78.5#



#25
2-Butanone
Concen: 1.468 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

Tgt Ion: 43 Resp: 3131
Ion Ratio Lower Upper
43 100
72 29.2 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.837 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

SOIL-PILE

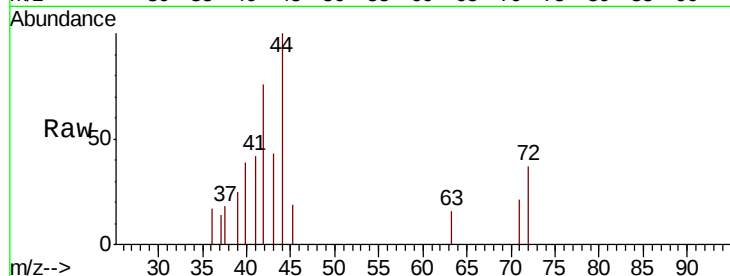
Tot Ion: 42 Resp: 1139

Ion Ratio Lower Upper

42 100

72 22.0 37.4 56.0#

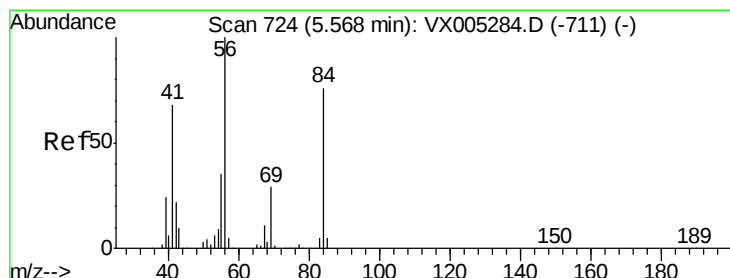
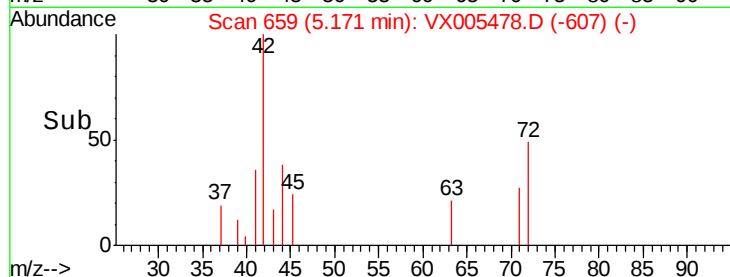
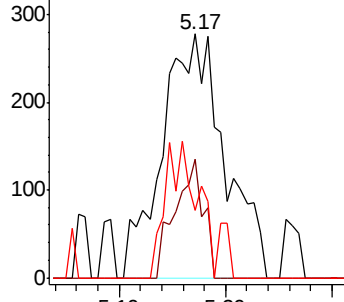
71 28.9 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.209 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

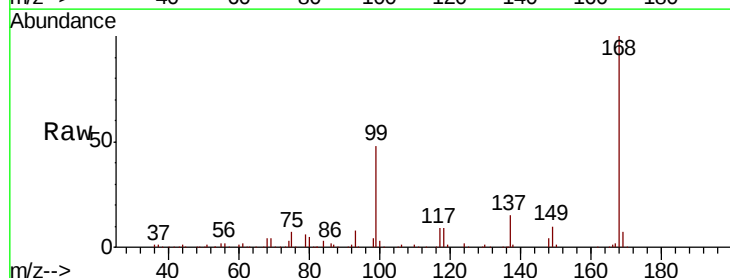
Tgt Ion: 56 Resp: 4189

Ion Ratio Lower Upper

56 100

69 215.2 25.4 38.2#

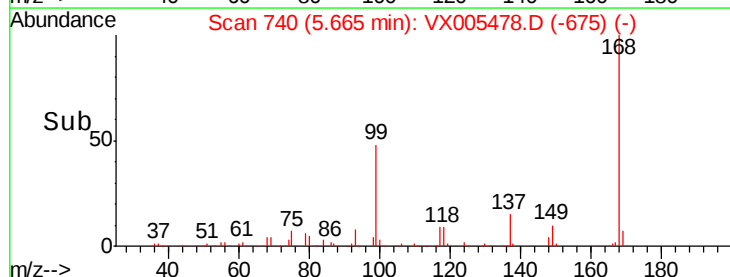
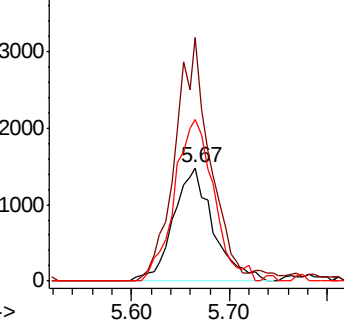
84 142.6 71.4 107.2#

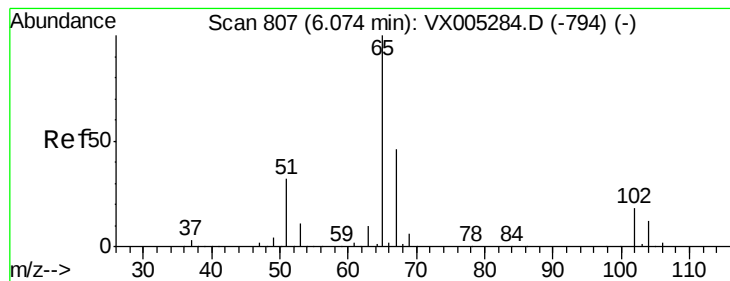


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 58.662 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

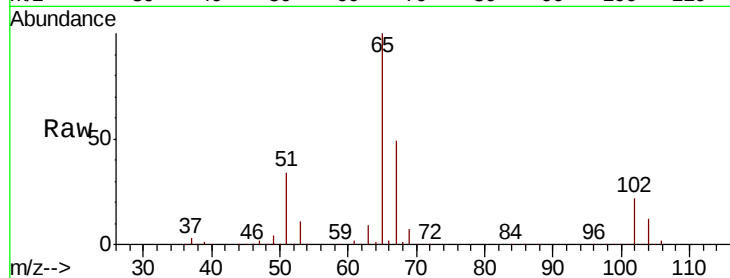
SOIL-PILE

Tot Ion: 65 Resp: 147919

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

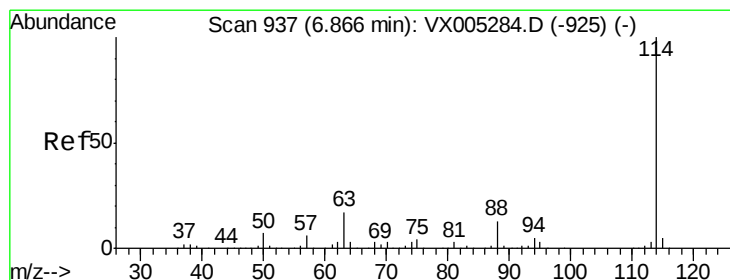
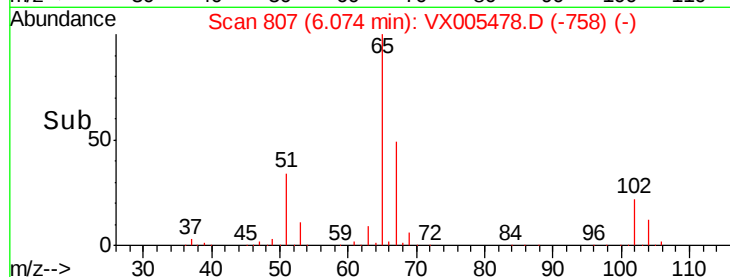
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

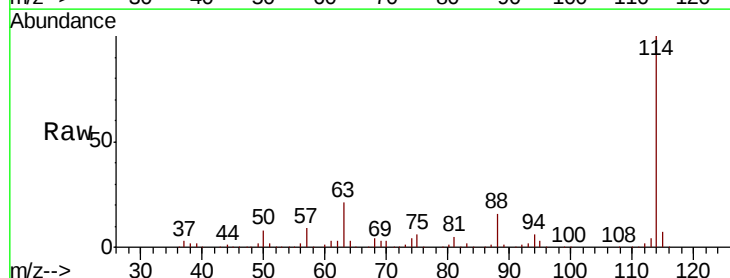
Tgt Ion: 114 Resp: 336407

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

88 16.1 0.0 30.4



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

6.86

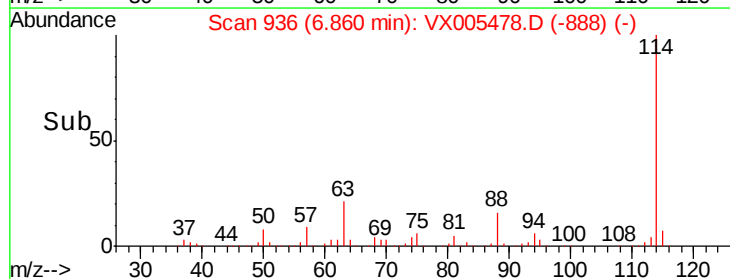
150000

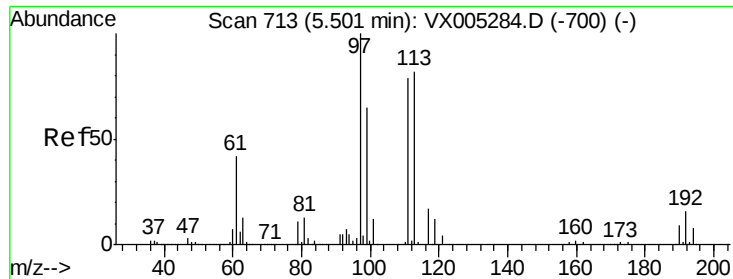
100000

50000

0

Time--> 6.80 7.00

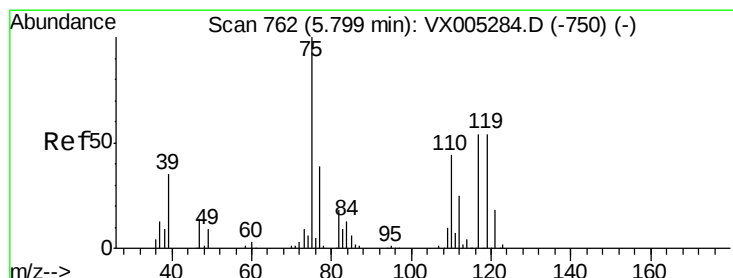
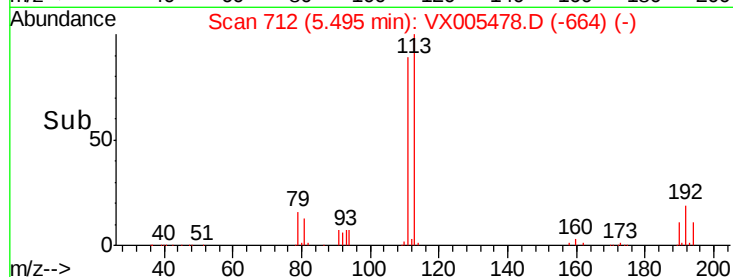
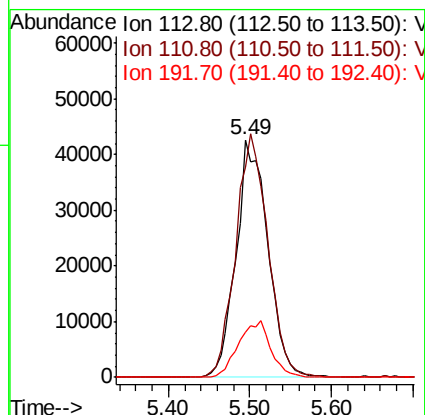
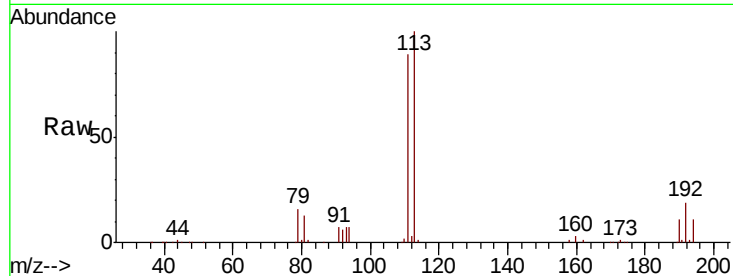




#35
 Dibromofluoromethane
 Concen: 51.657 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX005478.D
 Acq: 22 Oct 2018 18:46

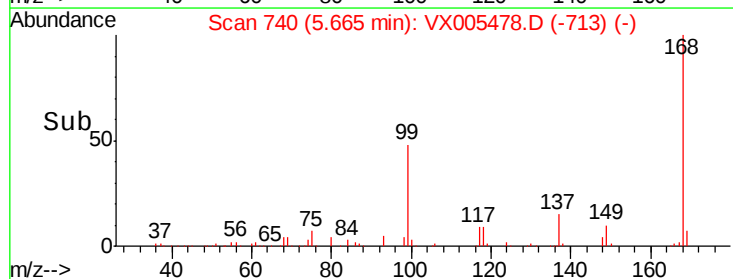
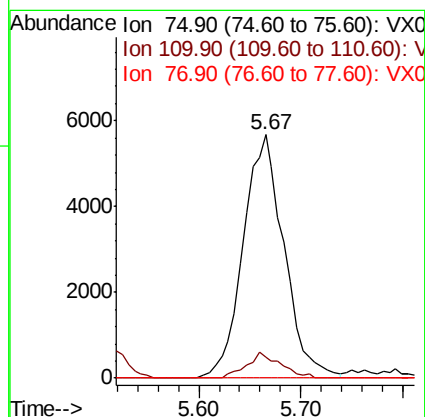
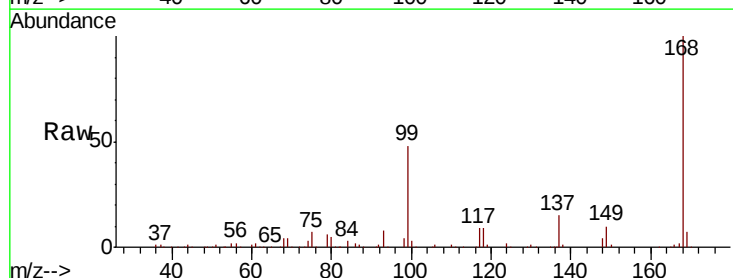
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-PILE

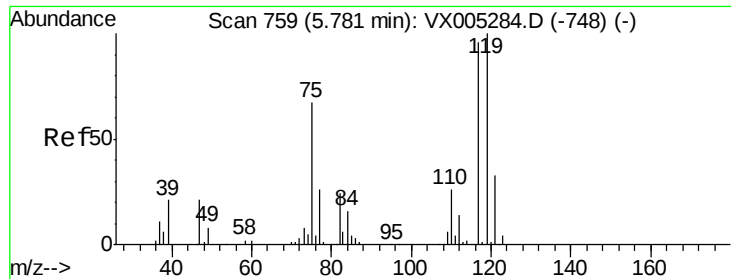
Tot Ion:113 Resp: 115098
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.4 123.6
 192 24.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.845 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005478.D
 Acq: 22 Oct 2018 18:46

Tgt Ion: 75 Resp: 15786
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.0 54.0#
 77 0.0 24.6 36.8#

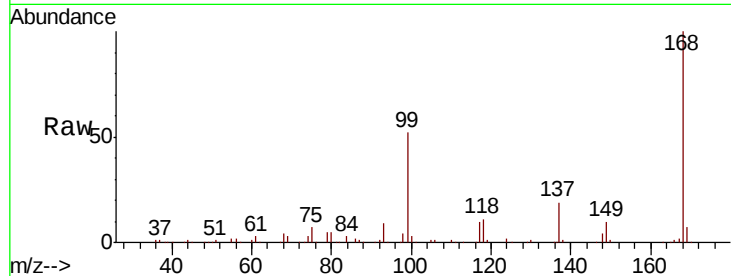




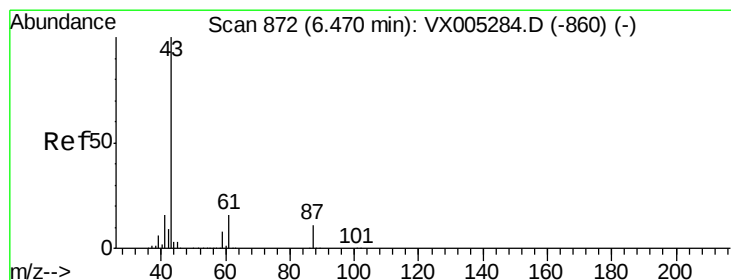
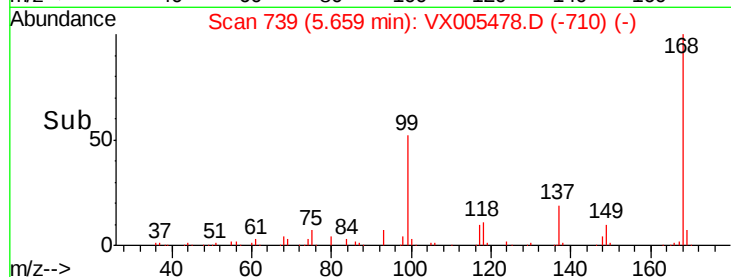
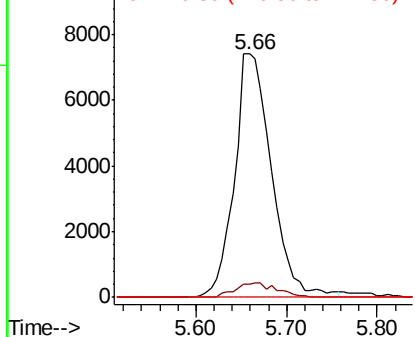
#38
Carbon Tetrachloride
Concen: 6.398 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

Tot Ion:117 Resp: 20945
Ion Ratio Lower Upper
117 100
119 5.6 78.8 118.2#
121 0.0 24.9 37.3#

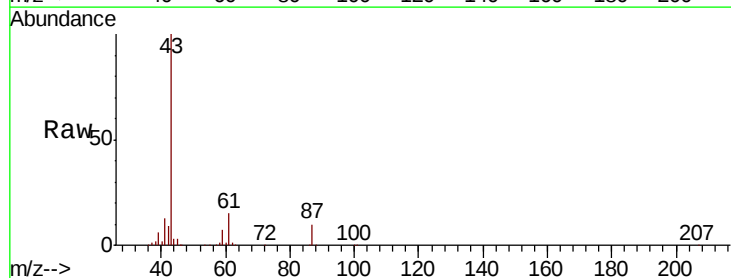


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

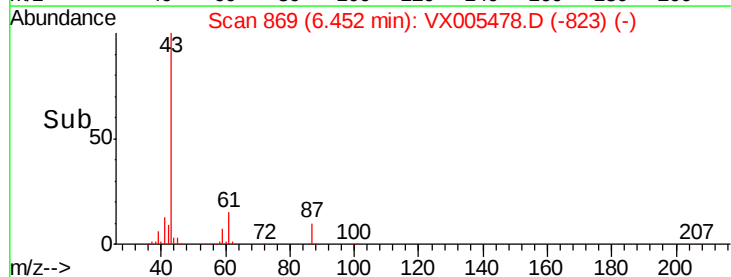
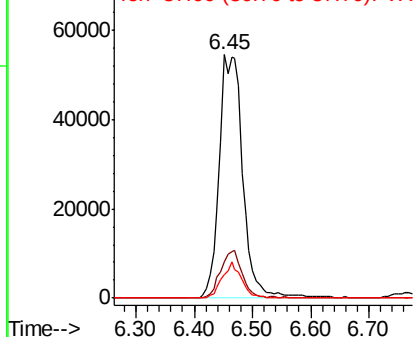


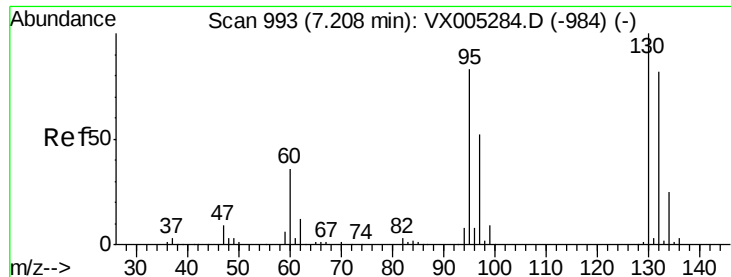
#43
Isopropyl Acetate
Concen: 27.371 ug/l
RT: 6.45 min Scan# 869
Delta R.T. -0.02 min
Lab File: VX005478.D
Acq: 22 Oct 2018 18:46

Tgt Ion: 43 Resp: 152771
Ion Ratio Lower Upper
43 100
61 18.2 17.0 25.4
87 12.0 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





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

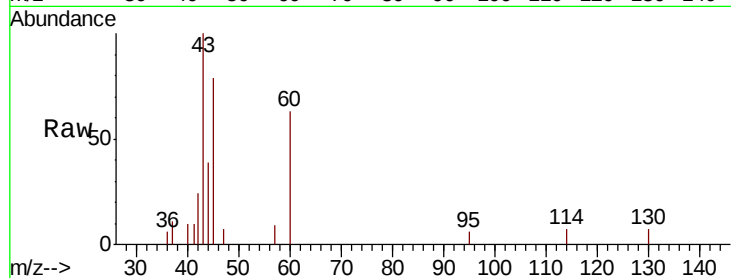
SOIL-PILE

Tot Ion:130 Resp: 20

Ion Ratio Lower Upper

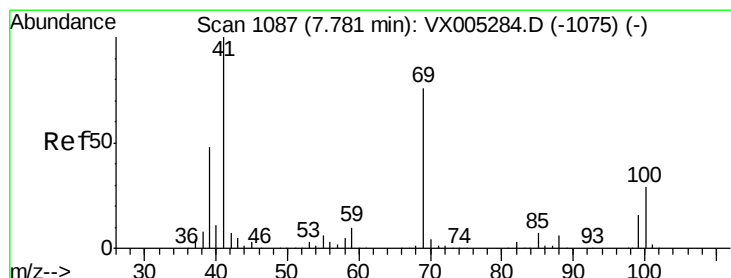
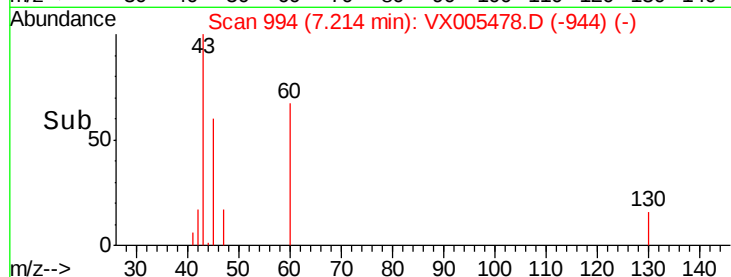
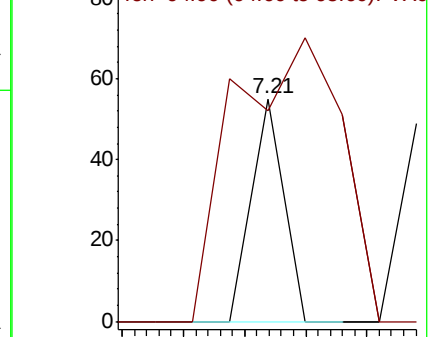
130 100

95 94.5 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 2.143 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

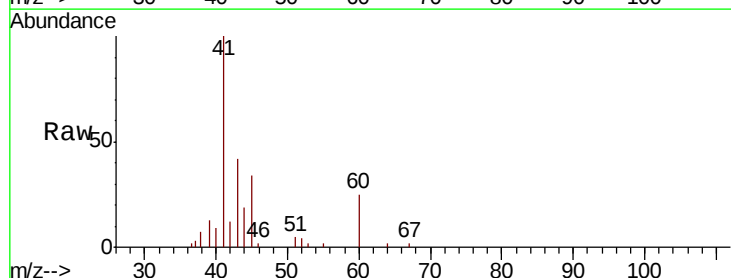
Tgt Ion: 41 Resp: 6205

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

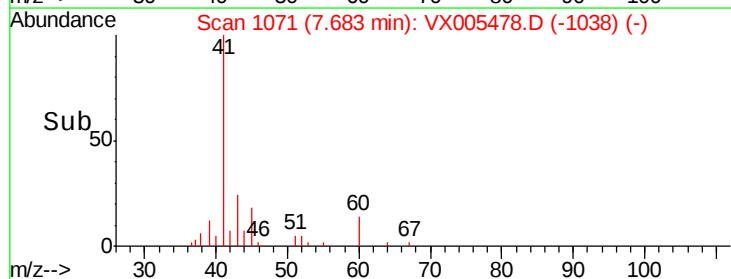
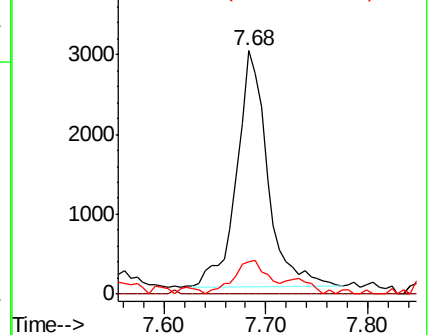
39 15.6 42.7 64.1#

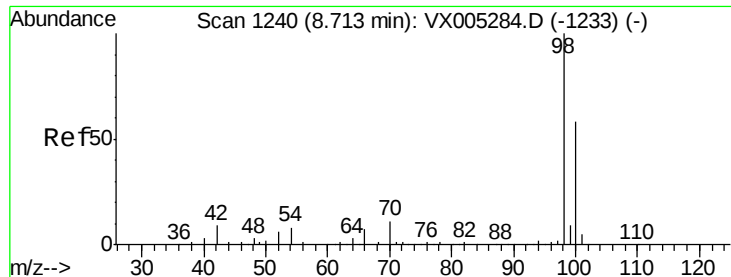


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 52.547 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

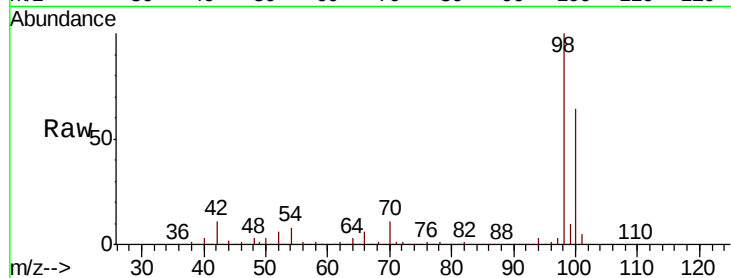
SOIL-PILE

Tot Ion: 98 Resp: 401946

Ion Ratio Lower Upper

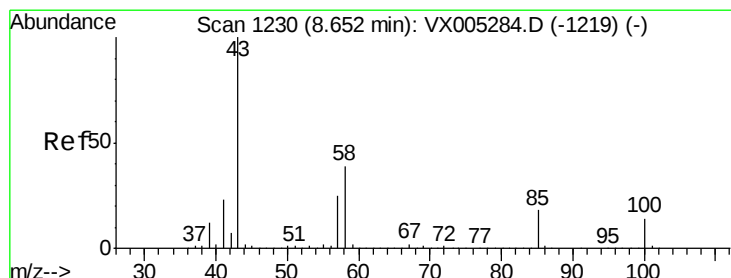
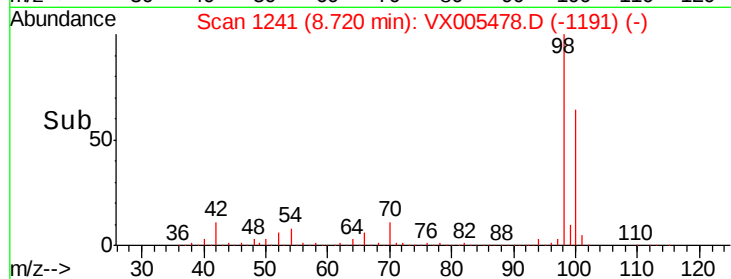
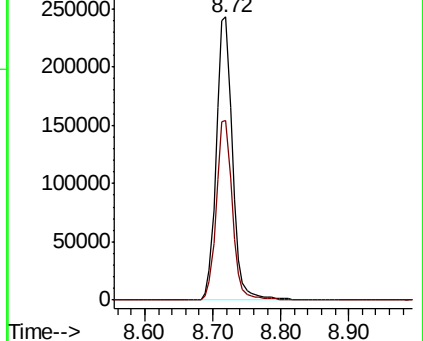
98 100

100 63.1 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: 0.660 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005478.D

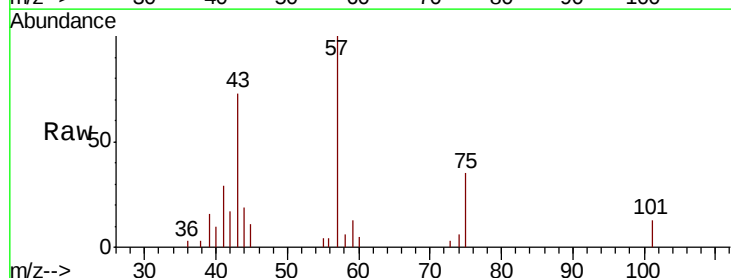
Acq: 22 Oct 2018 18:46

Tgt Ion: 43 Resp: 2549

Ion Ratio Lower Upper

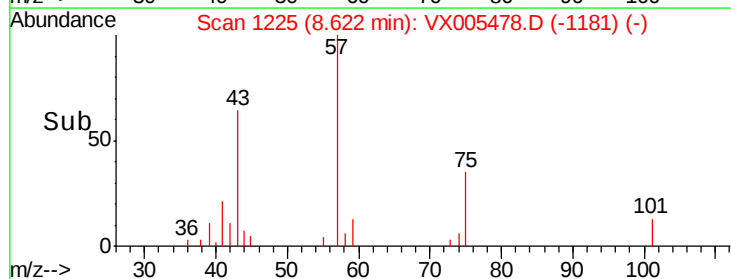
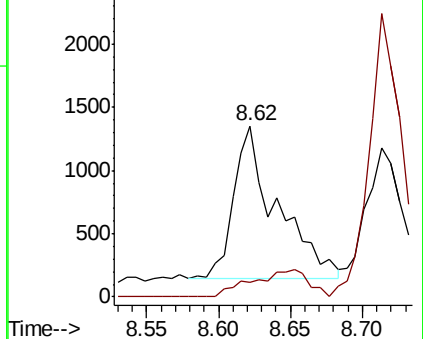
43 100

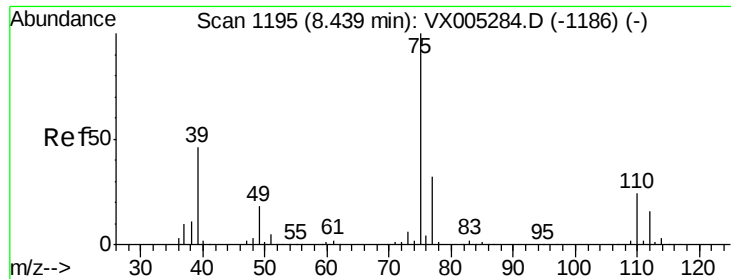
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

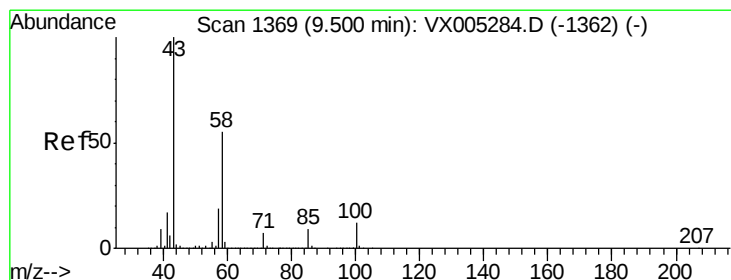
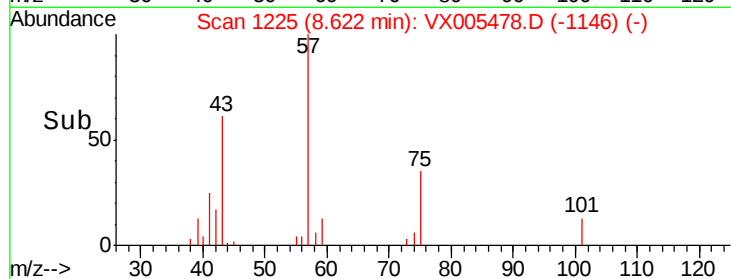
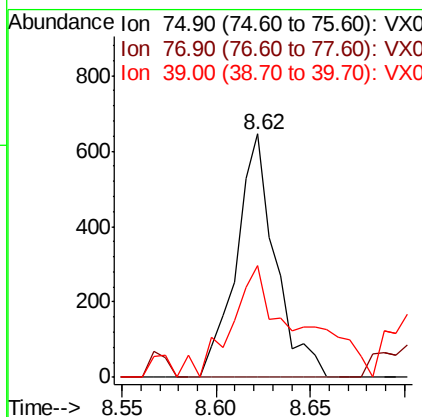
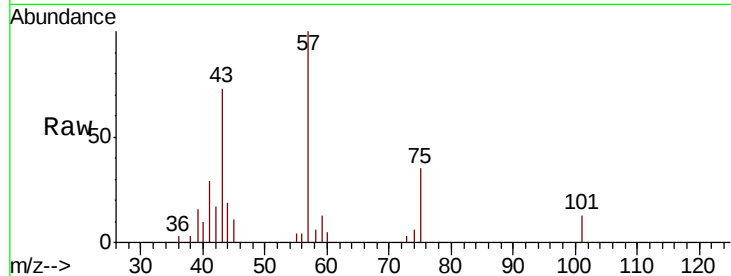




#54
 cis-1,3-Dichloropropene
 Concen: 0.271 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005478.D
 Acq: 22 Oct 2018 18:46

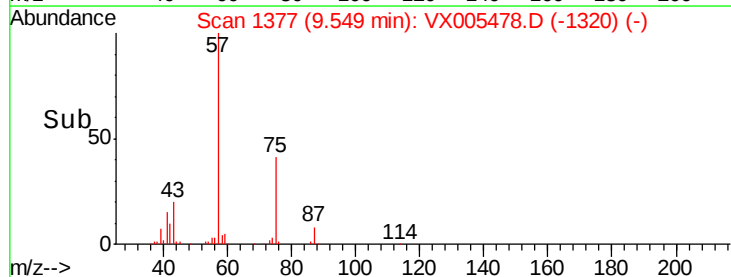
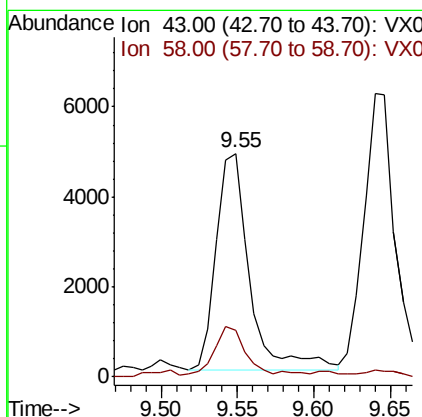
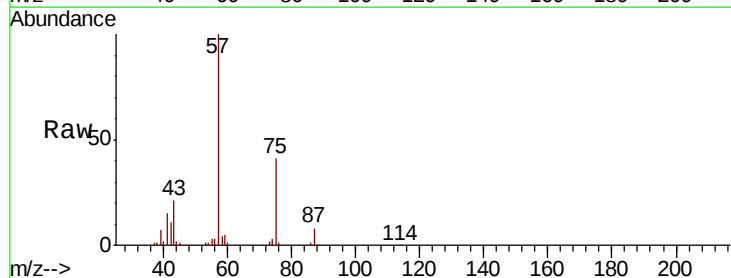
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-PILE

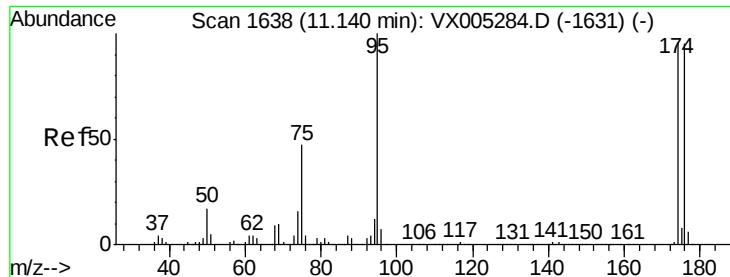
Tot Ion: 75 Resp: 929
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 36.7 36.4 54.6



#59
 2-Hexanone
 Concen: 2.381 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX005478.D
 Acq: 22 Oct 2018 18:46

Tgt Ion: 43 Resp: 7403
 Ion Ratio Lower Upper
 43 100
 58 23.5 29.0 87.0#





#62

4-Bromofluorobenzene

Concen: 46.136 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

SOIL-PILE

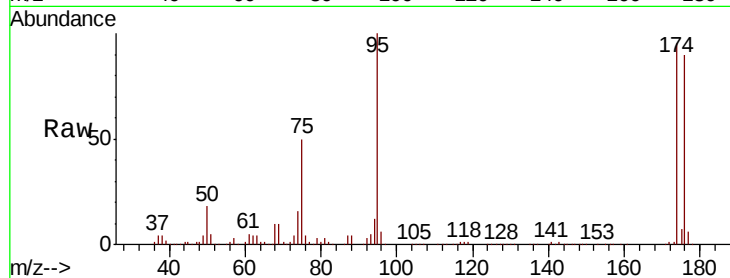
Tot Ion: 95 Resp: 132573

Ion Ratio Lower Upper

95 100

174 93.2 0.0 185.2

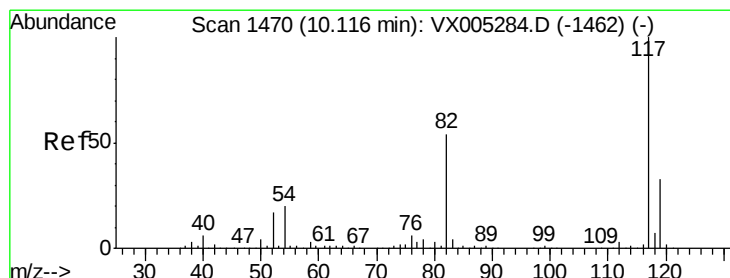
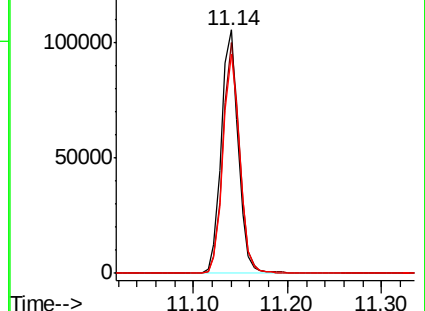
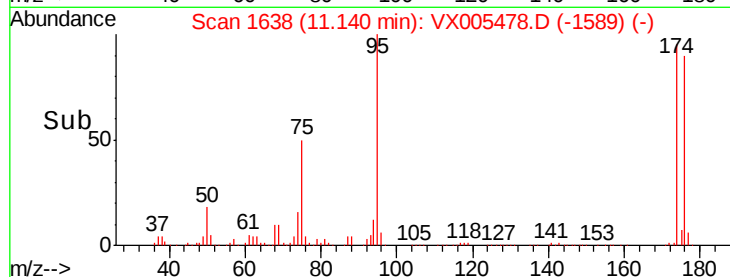
176 89.4 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005478.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005478.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005478.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

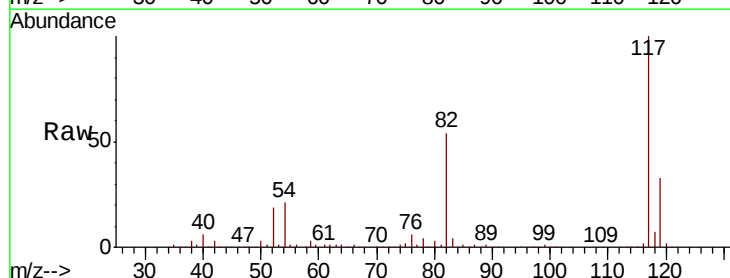
Tgt Ion: 117 Resp: 304524

Ion Ratio Lower Upper

117 100

82 54.3 47.8 71.6

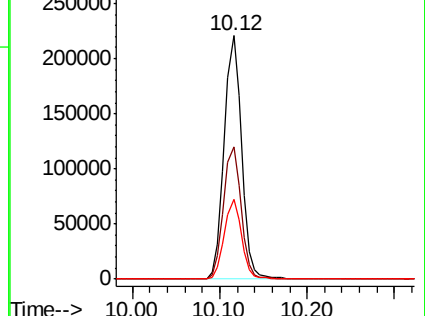
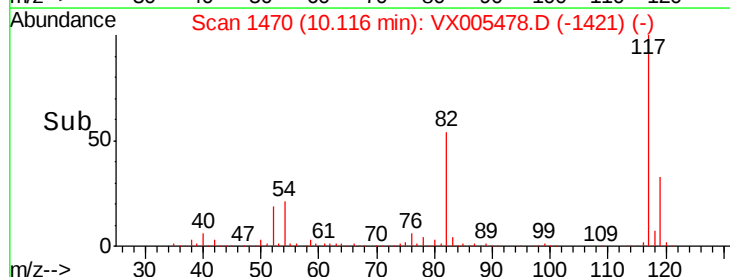
119 33.0 29.3 43.9

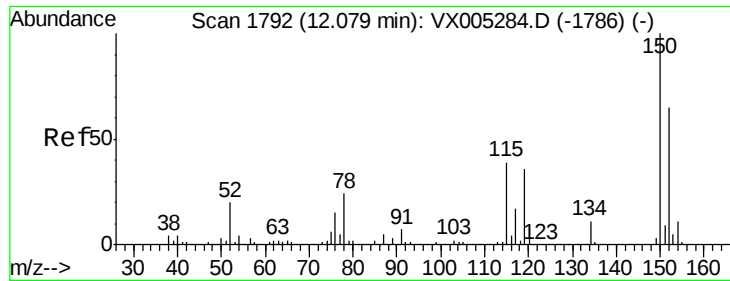


Abundance Ion 116.90 (116.60 to 117.60): VX005478.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005478.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005478.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

SOIL-PILE

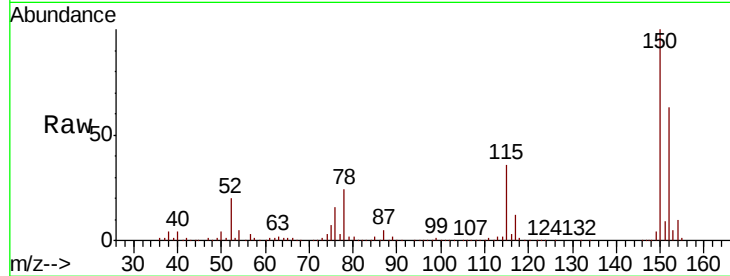
Tot Ion:152 Resp: 151372

Ion Ratio Lower Upper

152 100

115 56.6 39.0 117.0

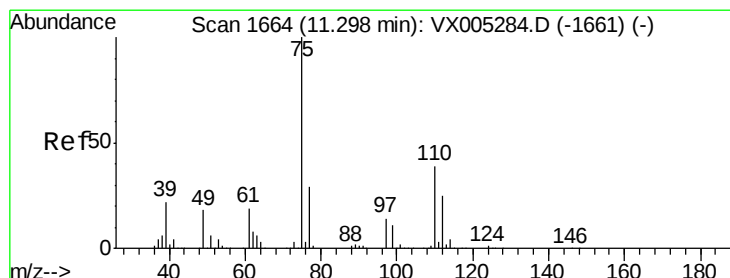
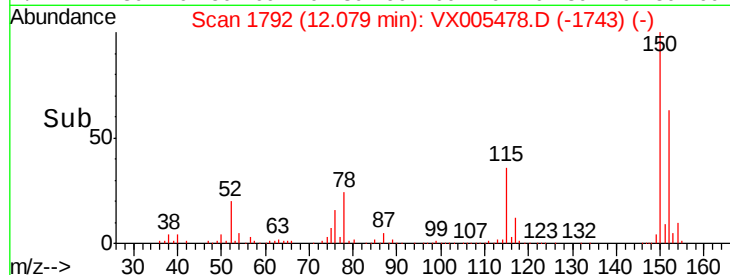
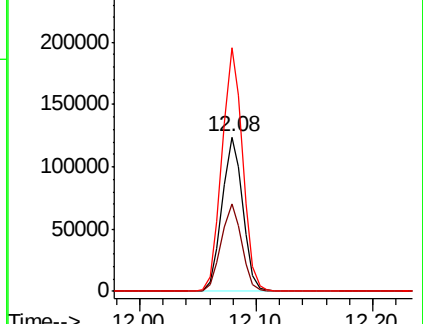
150 158.1 0.0 351.0



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: 22.738 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005478.D

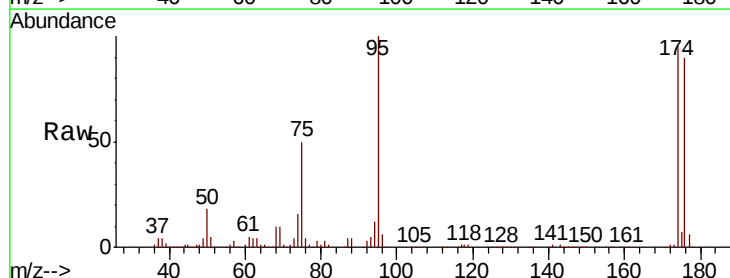
Acq: 22 Oct 2018 18:46

Tgt Ion: 75 Resp: 66762

Ion Ratio Lower Upper

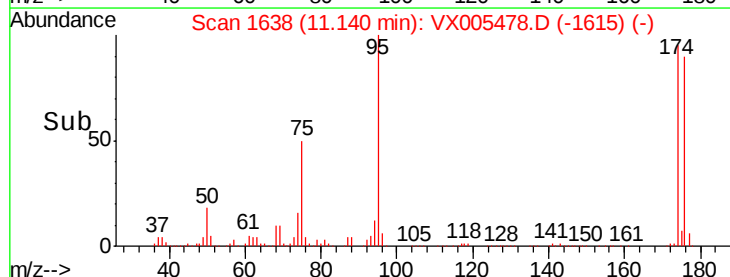
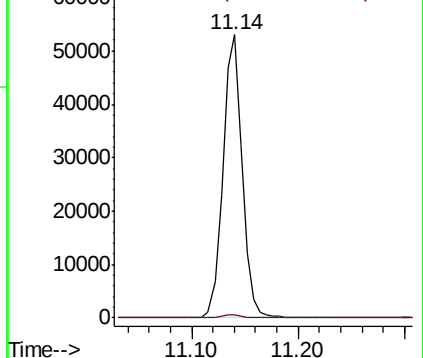
75 100

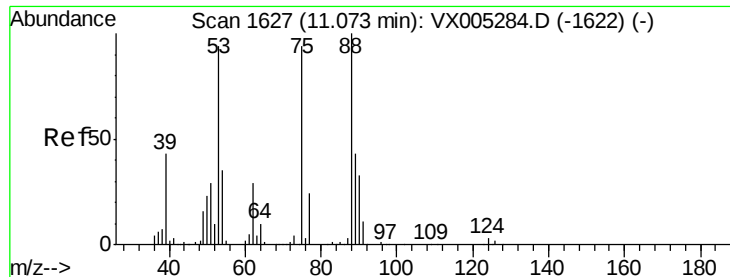
77 1.2 20.2 60.6#



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: 69.088 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

SOIL-PILE

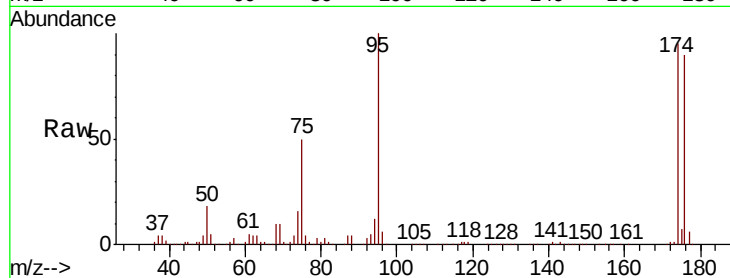
Tot Ion: 75 Resp: 66762

Ion Ratio Lower Upper

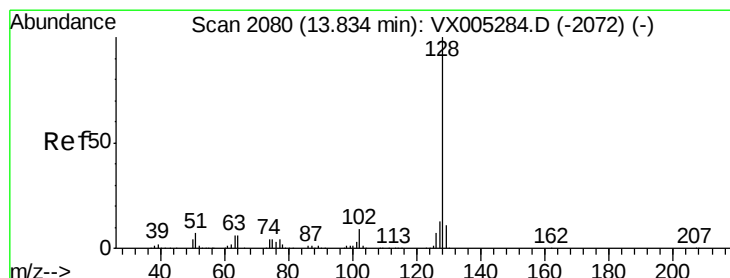
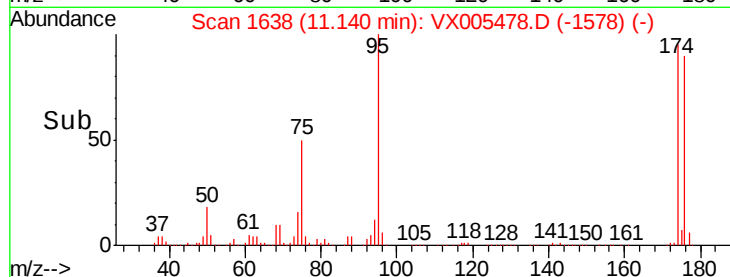
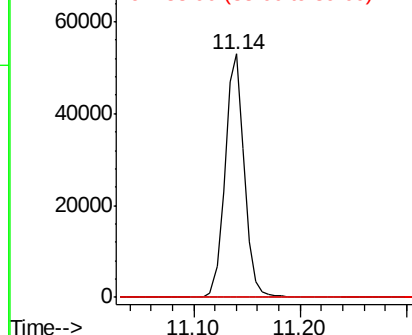
75 100

53 0.4 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: 0.229 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005478.D

Acq: 22 Oct 2018 18:46

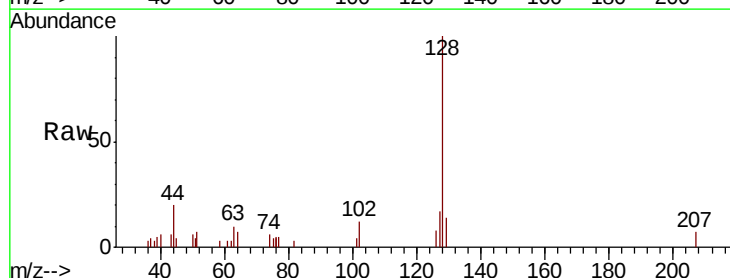
Tgt Ion:128 Resp: 2386

Ion Ratio Lower Upper

128 100

127 17.2 10.2 15.2#

129 13.2 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

