

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005162.D
 Acq On : 09 Oct 2018 16:41
 Operator : JC/MD
 Sample : J5291-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Oct 10 05:53:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	182229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	296849	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166300	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	143047	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
35) Dibromofluoromethane	5.50	113	119917	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
50) Toluene-d8	8.72	98	428110	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.14	95	154489	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	

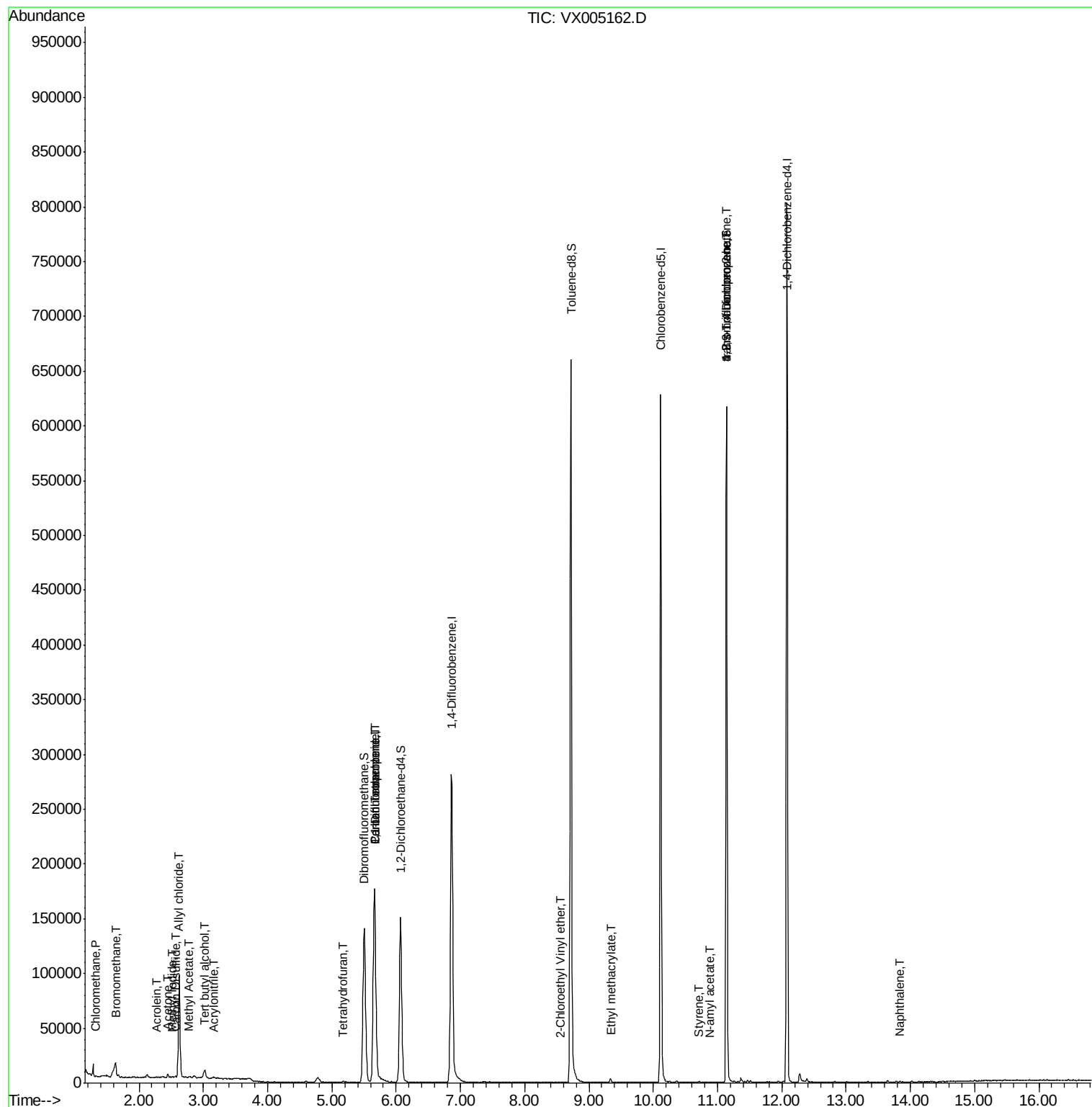
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	614	0.204	ug/l #	81
5) Bromomethane	1.64	94	686	0.409	ug/l #	74
6) Chloroethane	1.73	64	58	Below Cal	#	1
10) Methyl Iodide	2.51	142	754	0.283	ug/l #	83
11) Tert butyl alcohol	3.02	59	4599	6.318	ug/l #	83
13) Acrolein	2.28	56	235	0.454	ug/l	97
14) Allyl chloride	2.62	41	9149	2.124	ug/l #	59
15) Acrylonitrile	3.15	53	570	0.356	ug/l #	84
16) Acetone	2.45	43	2617	1.722	ug/l #	89
17) Carbon Disulfide	2.57	76	1559	0.263	ug/l #	76
18) Methyl Acetate	2.78	43	1013	0.263	ug/l	100
20) Methylene Chloride	2.86	84	636	Below Cal	#	91
29) Tetrahydrofuran	5.17	42	695	0.499	ug/l #	75
36) 1,1-Dichloropropene	5.67	75	12832	3.738	ug/l #	46
38) Carbon Tetrachloride	5.67	117	16237	4.500	ug/l #	19
56) Ethyl methacrylate	9.35	69	20	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.56	63	49	14.263	ug/l #	49
70) Styrene	10.71	104	201	2.165	ug/l #	57
74) N-amyl acetate	10.88	43	213	1.784	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	76843	20.616	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	402	Below Cal		99
81) trans-1,4-Dichloro-2-buten	11.14	75	76843	55.980	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	397	Below Cal	#	63
95) Naphthalene	13.83	128	686	0.768	ug/l #	85

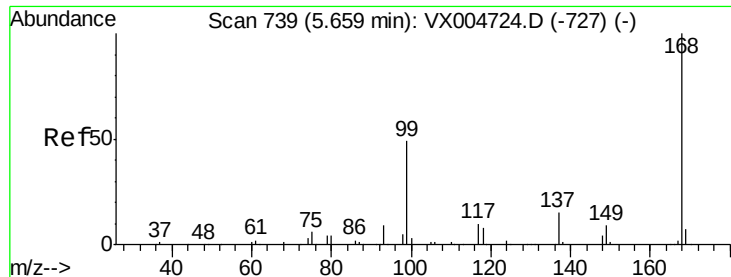
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

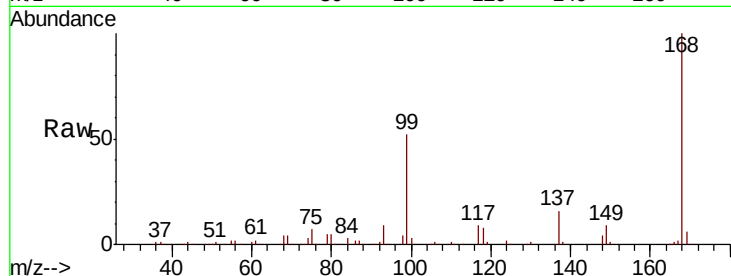
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 182229

Ion Ratio Lower Upper

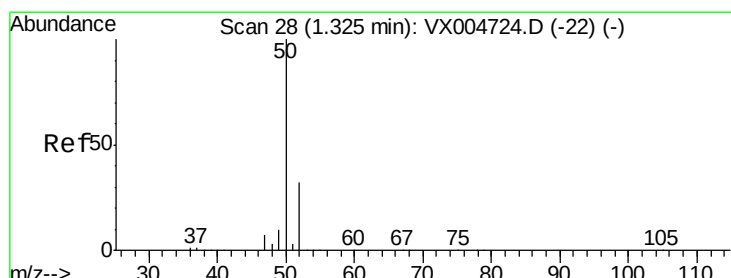
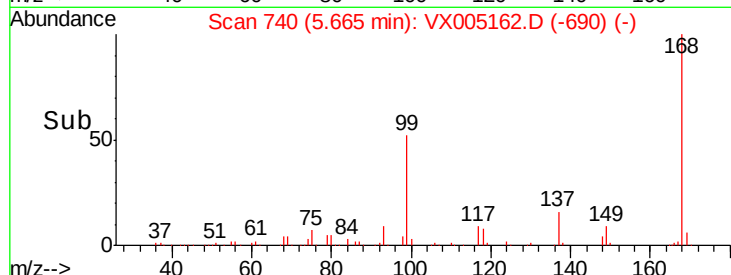
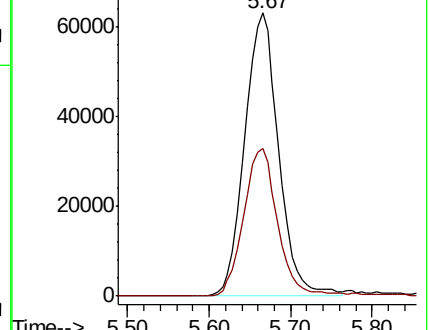
168 100

99 52.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): VX004724.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX005162.D (-690) (-)



#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005162.D

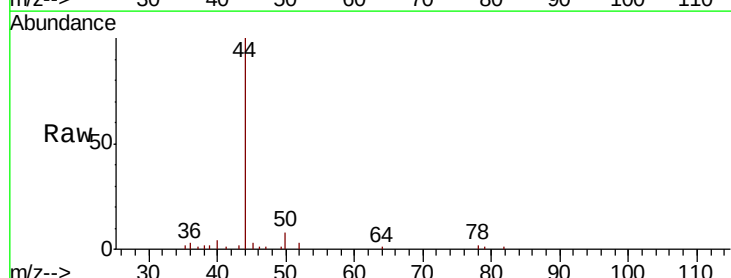
Acq: 09 Oct 2018 16:41

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

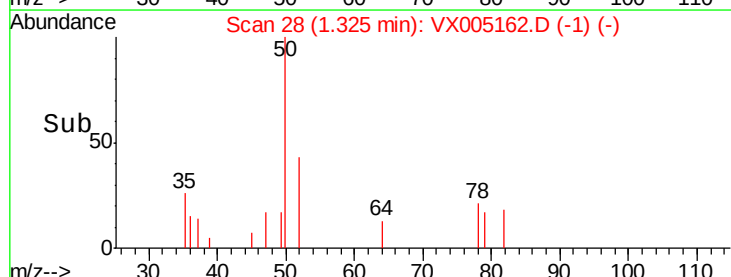
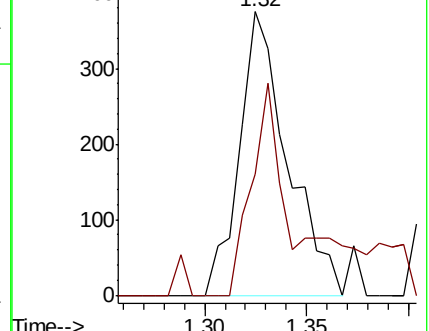
50 100

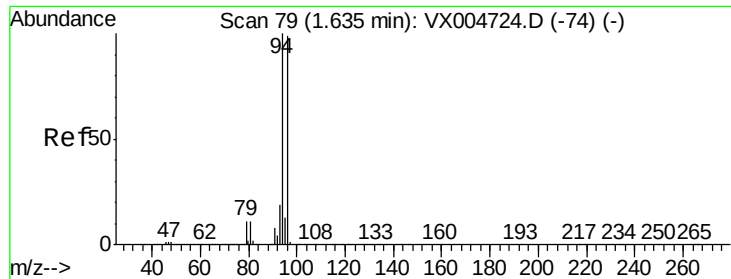
52 42.9 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX004724.D (-22) (-)

Ion 51.90 (51.60 to 52.60): VX005162.D (-1) (-)





#5

Bromomethane

Concen: 0.409 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

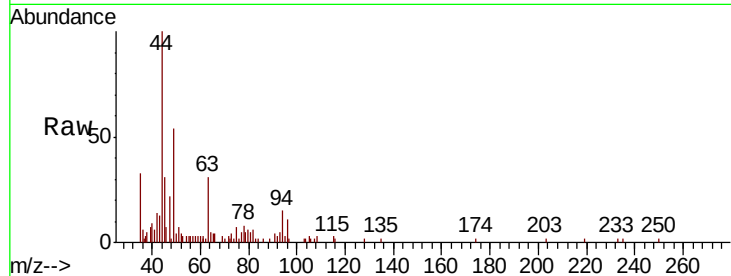
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 686

Ion Ratio Lower Upper

94 100

96 73.8 79.5 119.3#

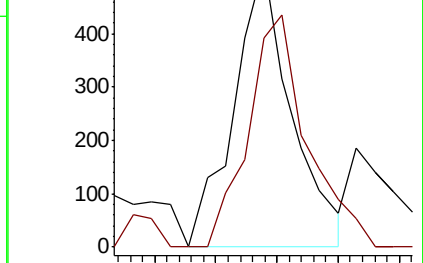


Abundance Ion 93.90 (93.60 to 94.60): VX0

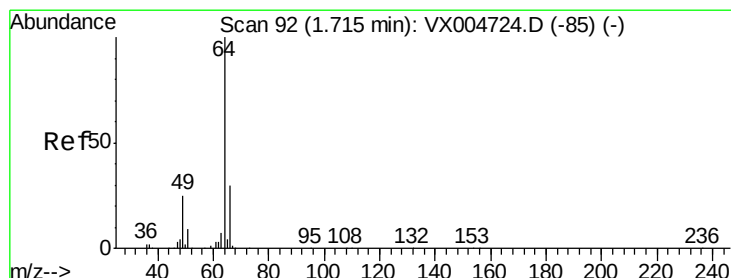
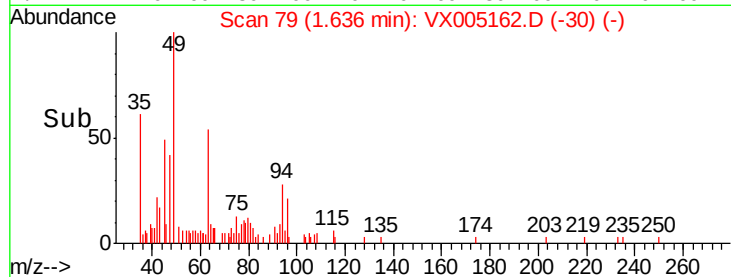
Ion 95.90 (95.60 to 96.60): VX0

1.64

1.66



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005162.D

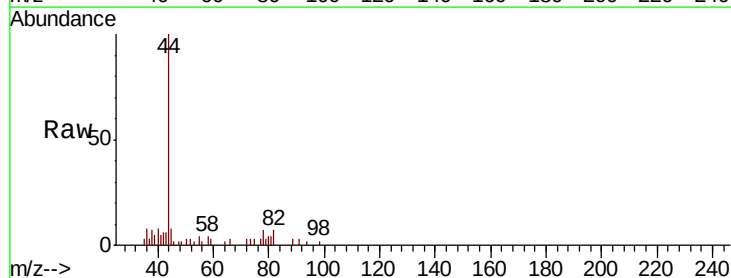
Acq: 09 Oct 2018 16:41

Tgt Ion: 64 Resp: 58

Ion Ratio Lower Upper

64 100

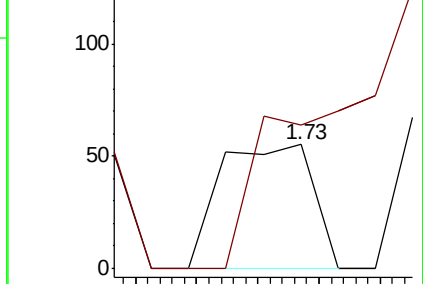
66 116.4 23.8 35.6#



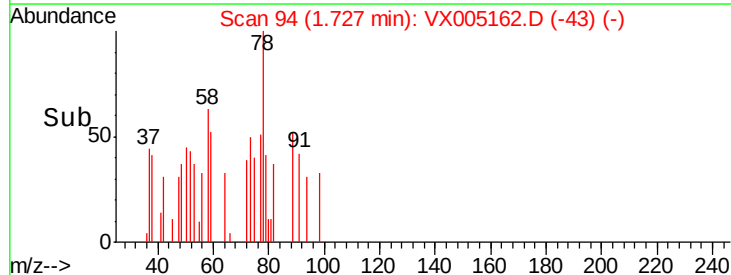
Abundance Ion 63.90 (63.60 to 64.60): VX0

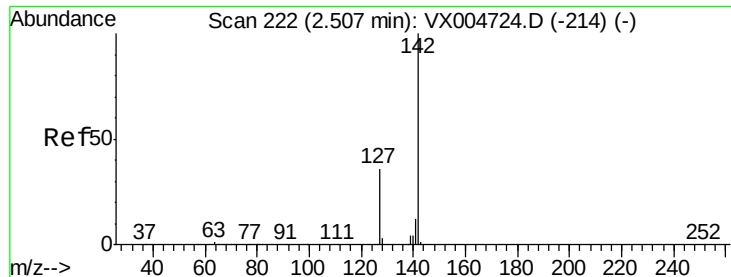
Ion 65.90 (65.60 to 66.60): VX0

1.73



Time-->

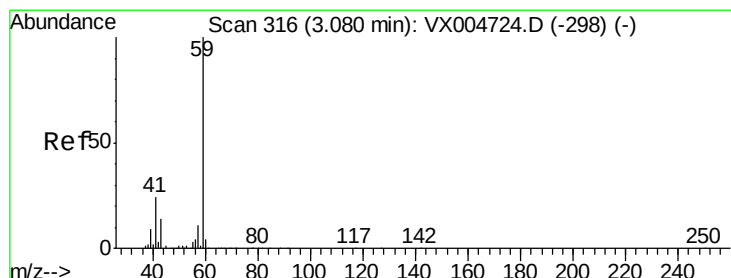
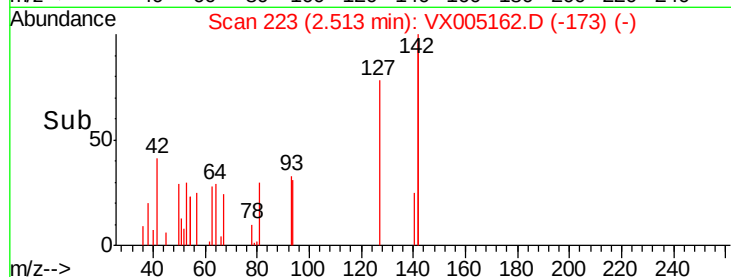
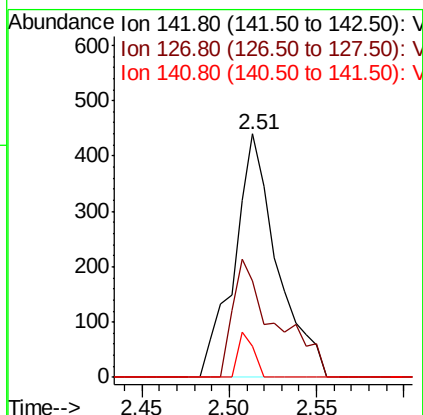
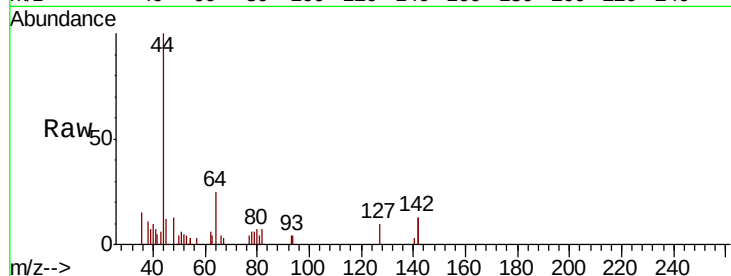




#10
Methvl Iodide
Concen: 0.283 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

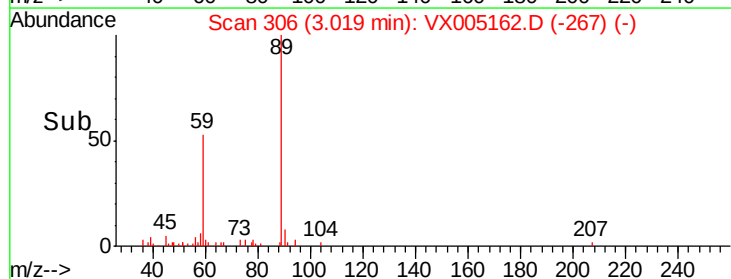
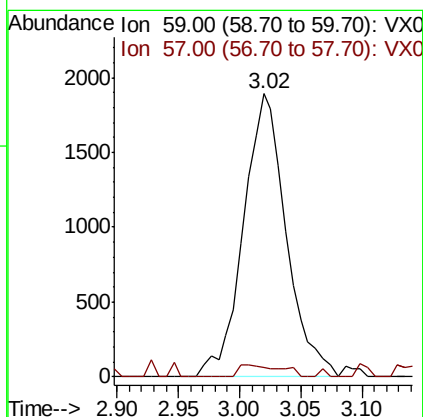
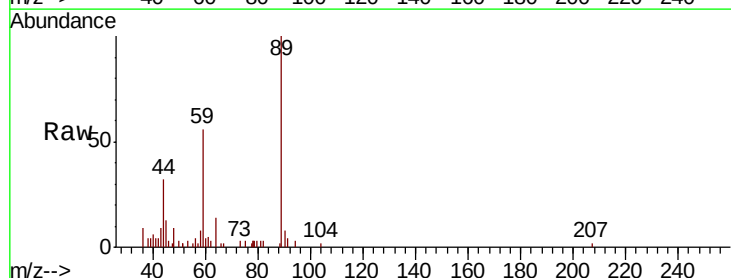
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

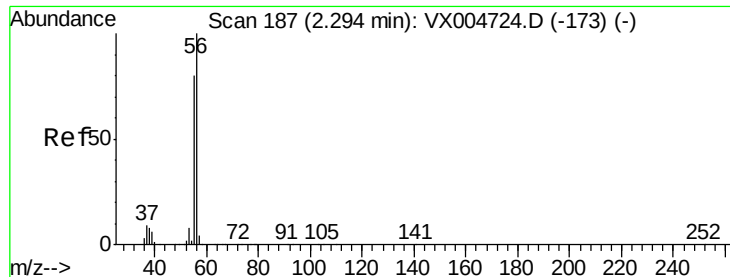
Tot Ion	Ratio	Lower	Upper
142	100		
127	48.4	30.1	45.1#
141	6.6	10.1	15.1#



#11
Tert butyl alcohol
Concen: 6.318 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

Tgt Ion	Ratio	Lower	Upper
59	100		
57	4.2	8.6	12.8#





#13

Acrolein

Concen: 0.454 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

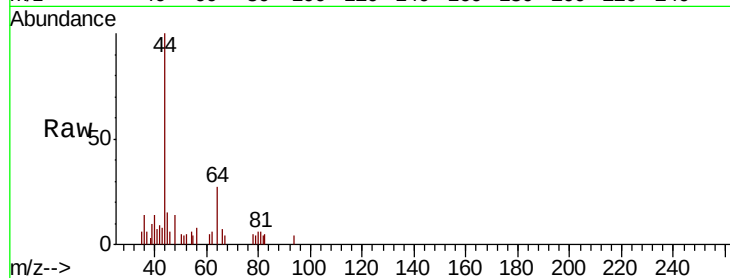
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

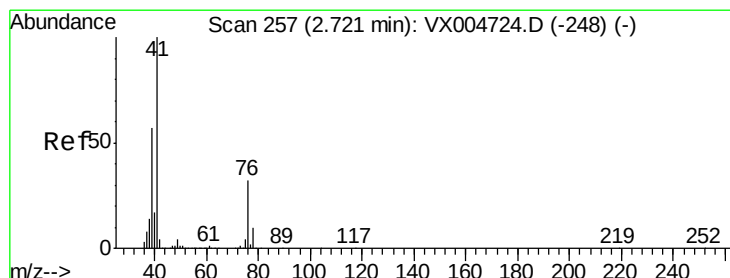
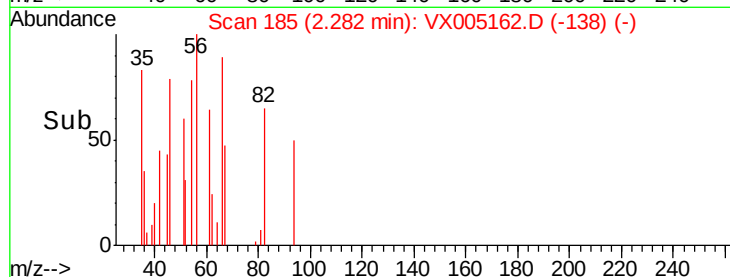
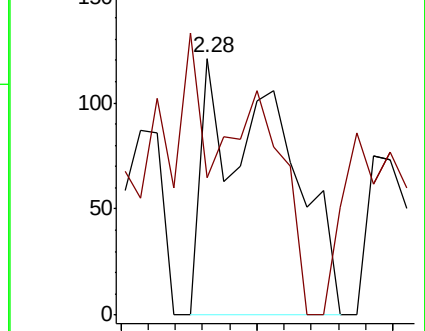
56 100

55 82.1 63.4 95.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 2.124 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

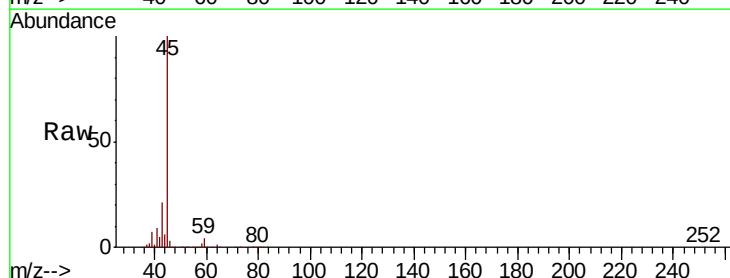
Tgt Ion: 41 Resp: 9149

Ion Ratio Lower Upper

41 100

39 78.8 44.1 66.1#

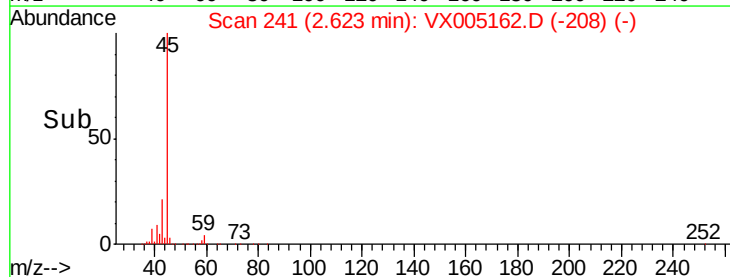
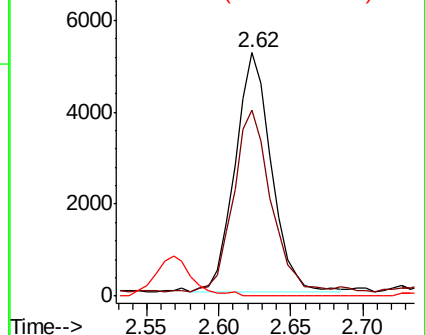
76 0.0 25.0 37.4#

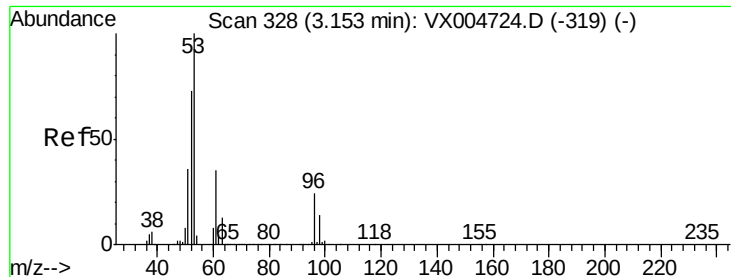


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#15

Acrylonitrile

Concen: 0.356 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

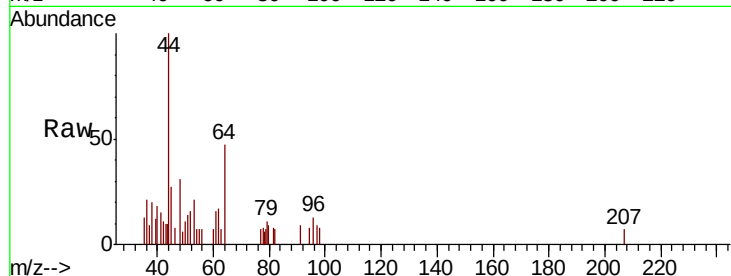
Tot Ion: 53 Resp: 570

Ion Ratio Lower Upper

53 100

52 83.3 63.0 94.4

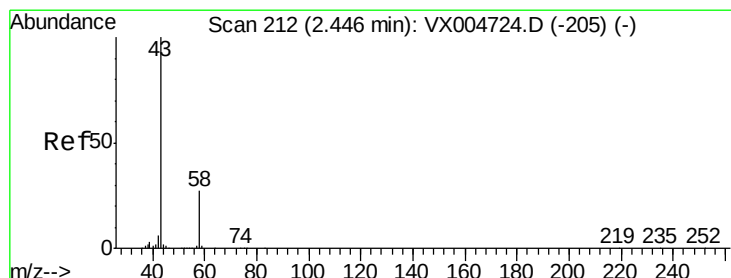
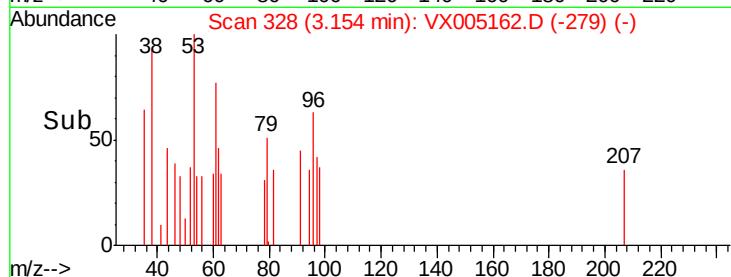
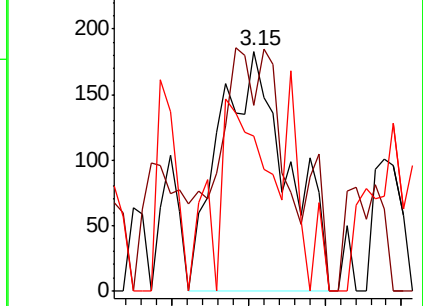
51 59.3 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.722 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005162.D

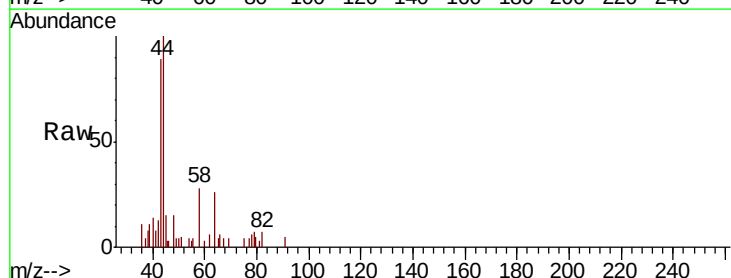
Acq: 09 Oct 2018 16:41

Tgt Ion: 43 Resp: 2617

Ion Ratio Lower Upper

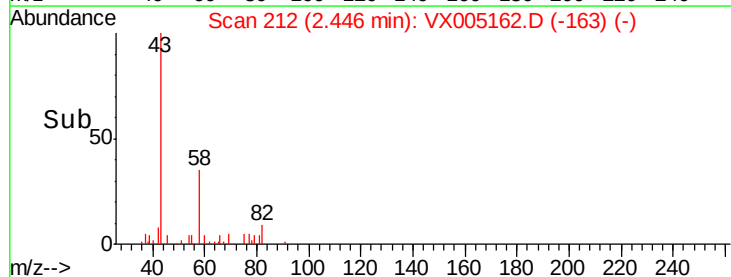
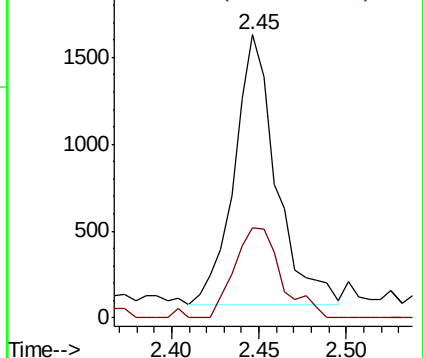
43 100

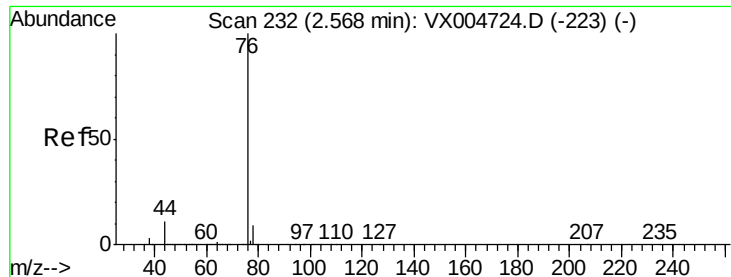
58 33.2 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.263 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

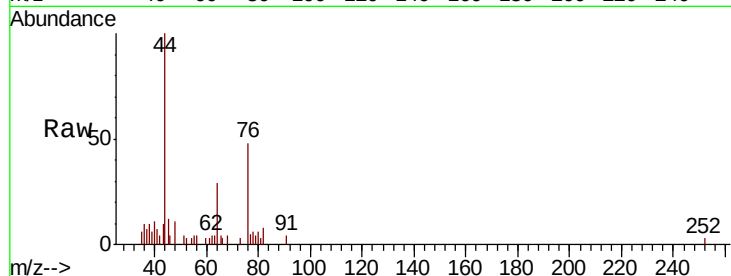
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 76 Resp: 1559

Ion Ratio Lower Upper

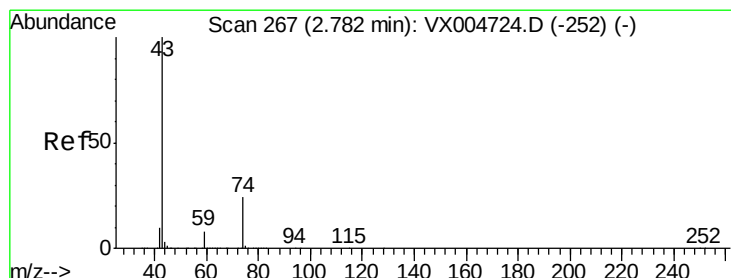
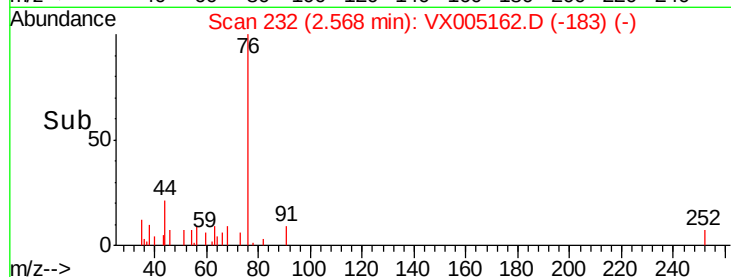
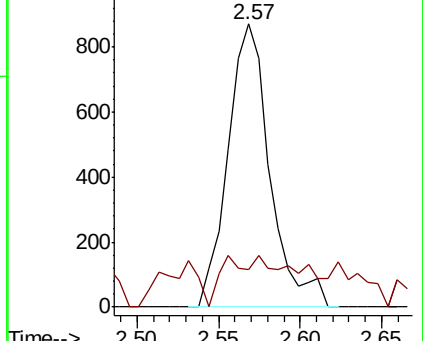
76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.263 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005162.D

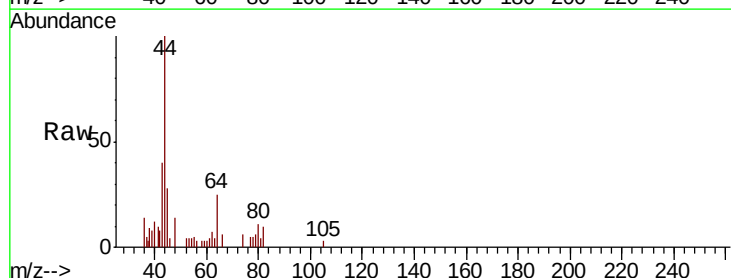
Acq: 09 Oct 2018 16:41

Tgt Ion: 43 Resp: 1013

Ion Ratio Lower Upper

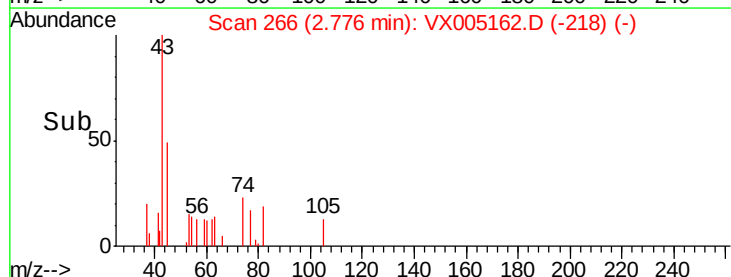
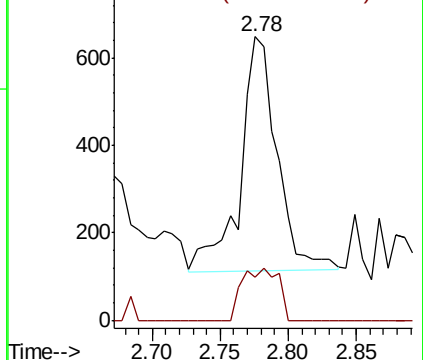
43 100

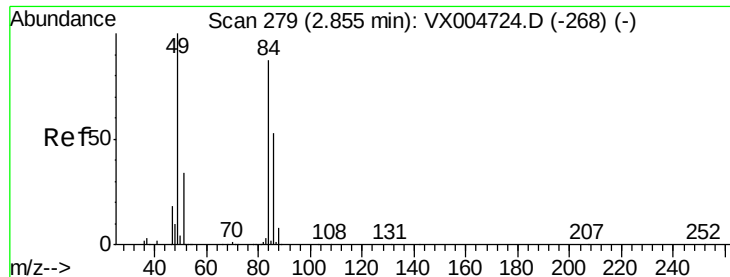
74 22.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

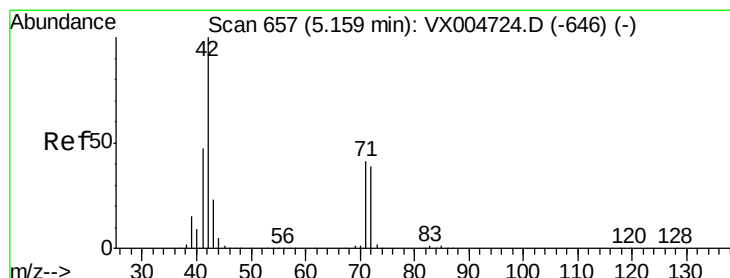
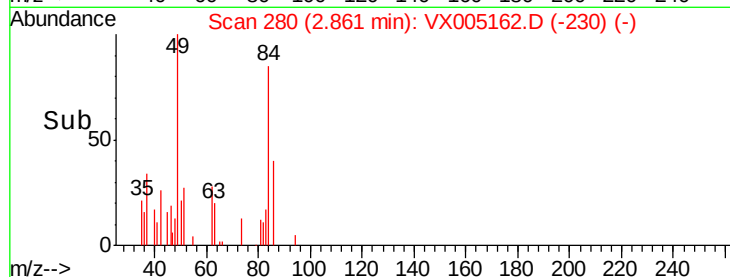
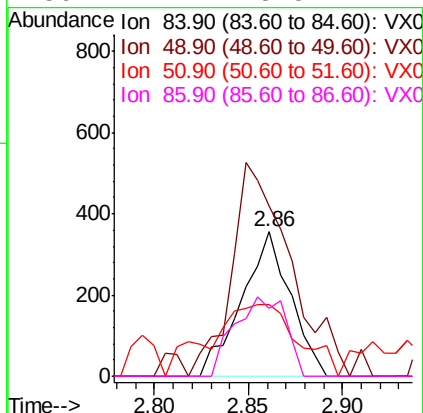
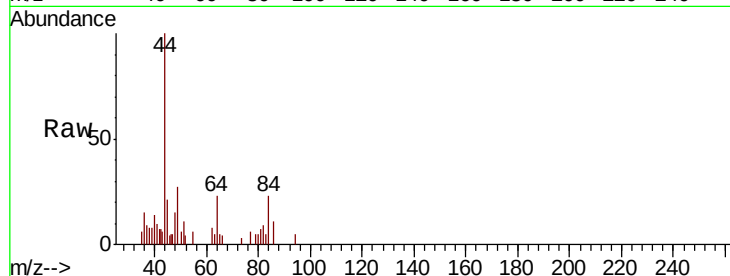




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

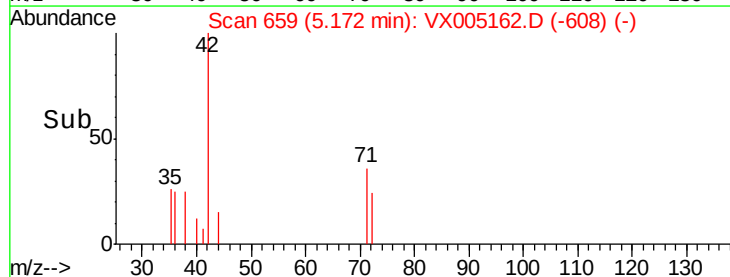
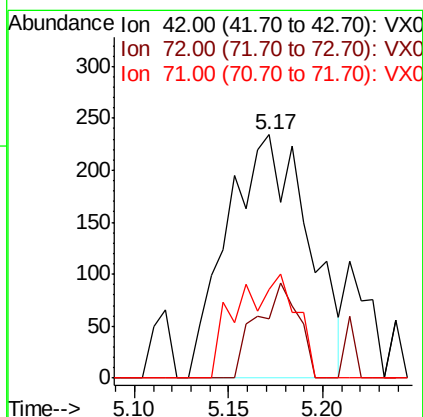
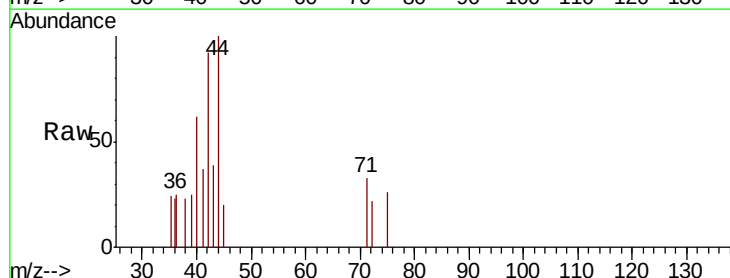
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

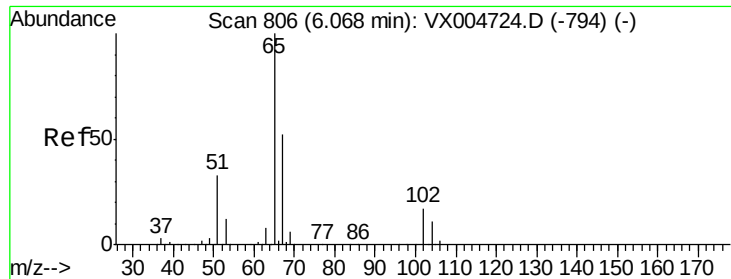
Tot Ion: 84 Resp: 636
Ion Ratio Lower Upper
84 100
49 117.4 92.3 138.5
51 49.4 31.8 47.6#
86 47.2 48.5 72.7#



#29
Tetrahydrofuran
Concen: 0.499 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

Tgt Ion: 42 Resp: 695
Ion Ratio Lower Upper
42 100
72 20.0 33.7 50.5#
71 31.1 32.2 48.4#

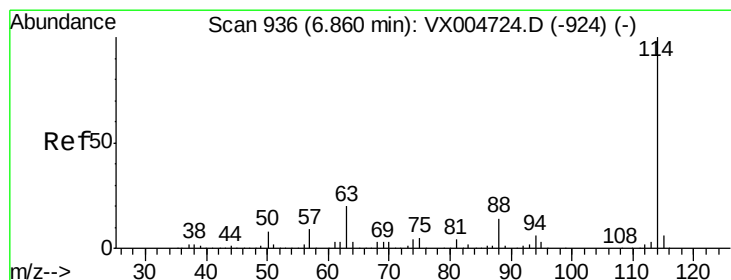
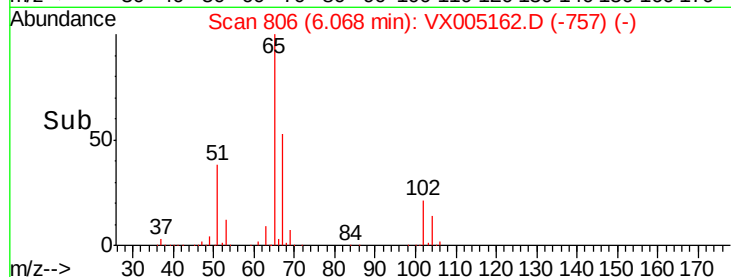
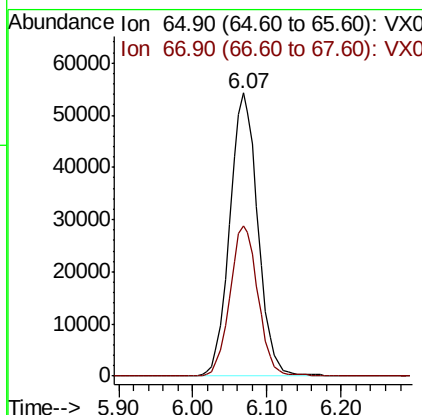
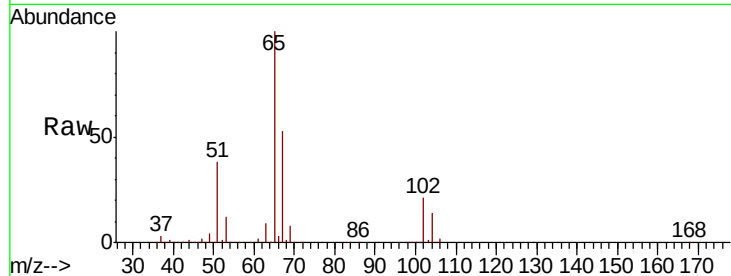




#33
 1,2-Dichloroethane-d4
 Concen: 54.952 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005162.D
 Acq: 09 Oct 2018 16:41

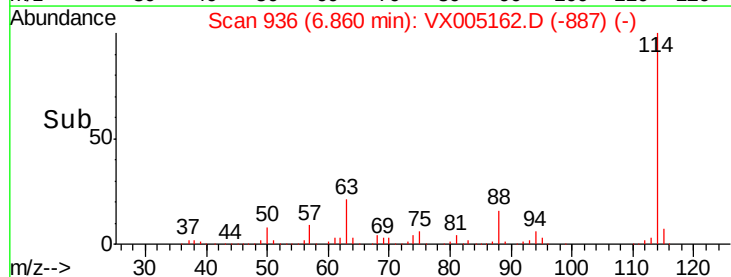
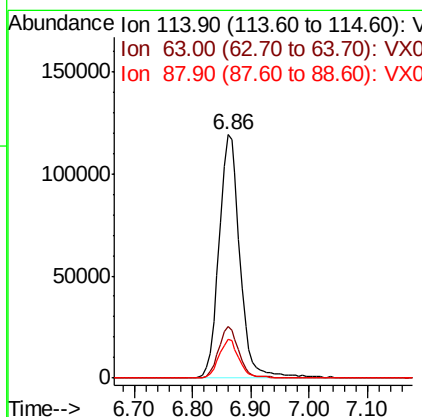
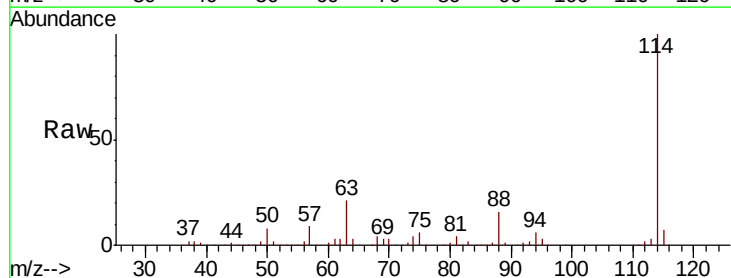
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

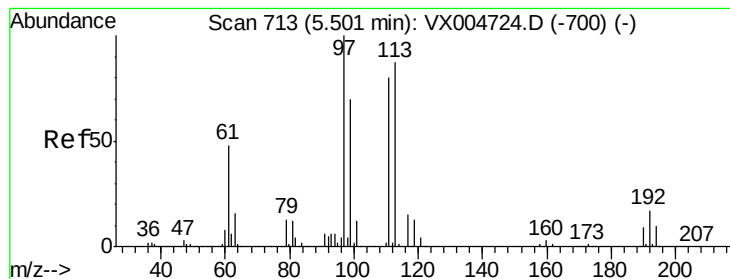
Tot Ion: 65 Resp: 143047
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005162.D
 Acq: 09 Oct 2018 16:41

Tgt Ion: 114 Resp: 296849
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 39.8
 88 15.9 0.0 27.0





#35

Dibromofluoromethane

Concen: 47.665 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

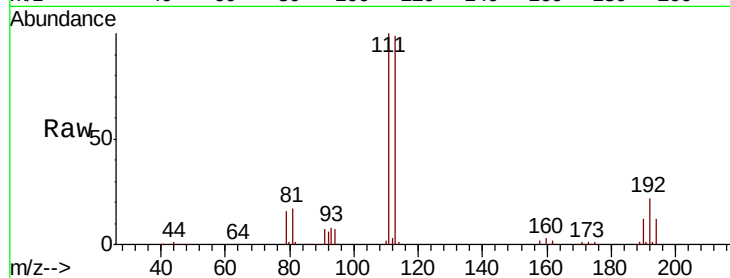
Tot Ion:113 Resp: 119917

Ion Ratio Lower Upper

113 100

111 101.7 77.0 115.4

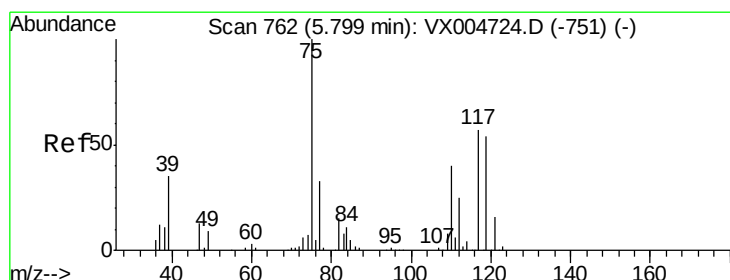
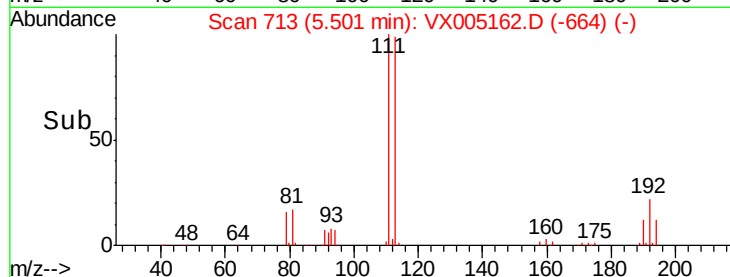
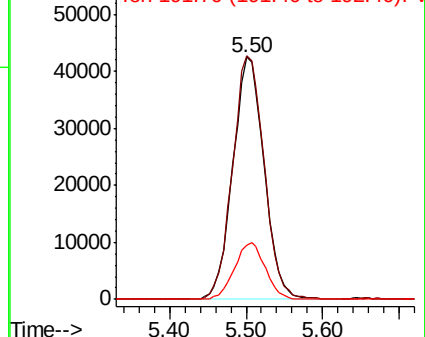
192 23.5 17.0 25.6



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: 3.738 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

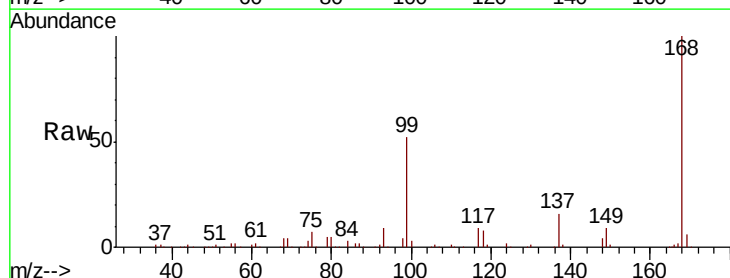
Tgt Ion: 75 Resp: 12832

Ion Ratio Lower Upper

75 100

110 9.5 20.0 59.9#

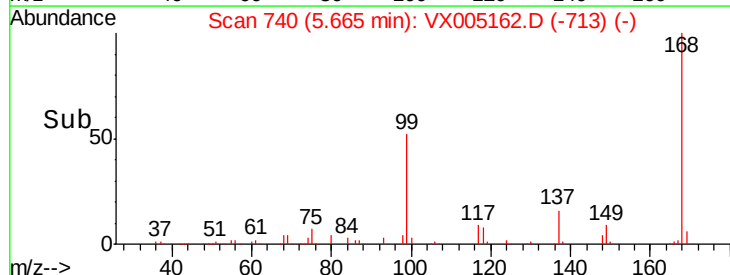
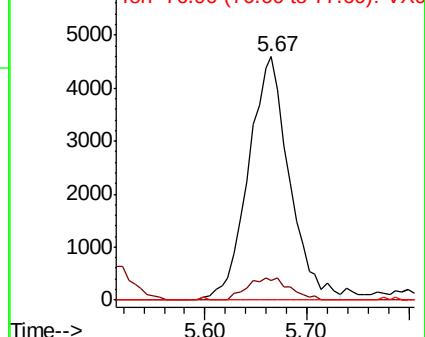
77 0.0 27.1 40.7#

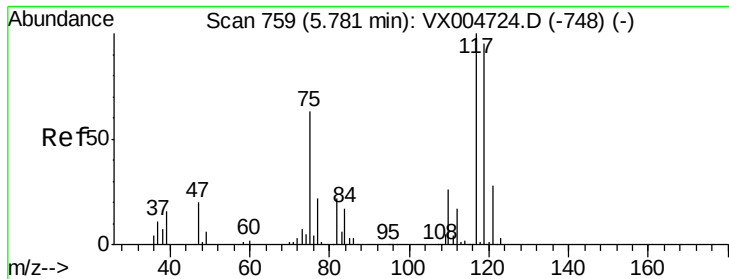


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

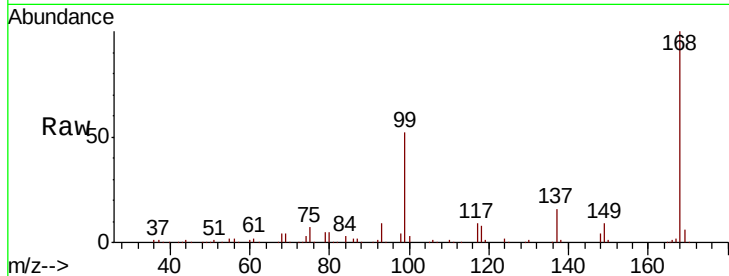




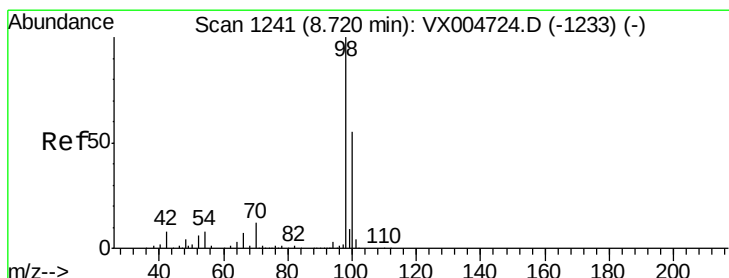
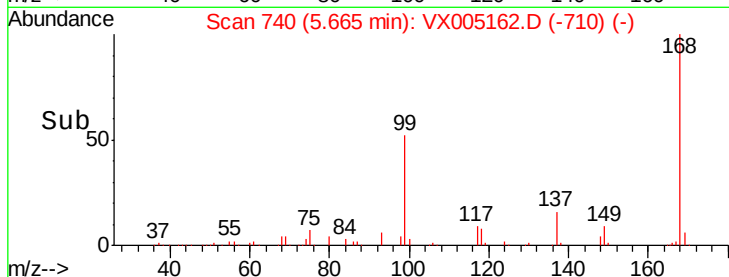
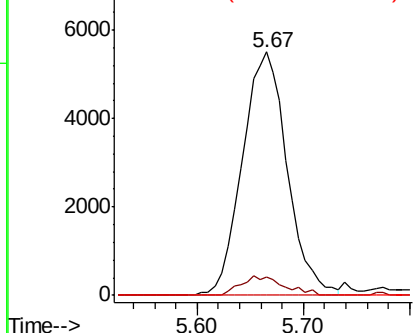
#38
Carbon Tetrachloride
Concen: 4.500 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

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

Tot Ion:117 Resp: 16237
Ion Ratio Lower Upper
117 100
119 7.4 75.2 112.8#
121 0.0 22.5 33.7#

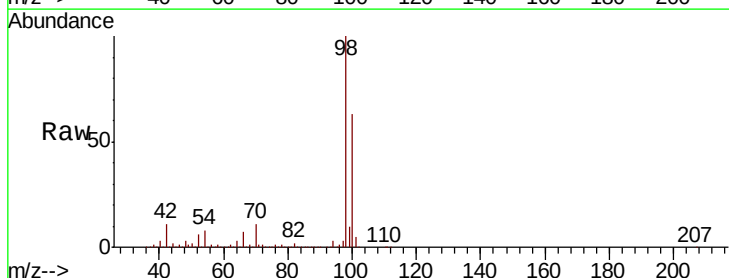


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

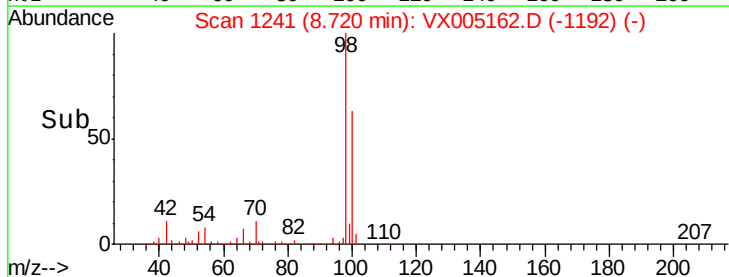
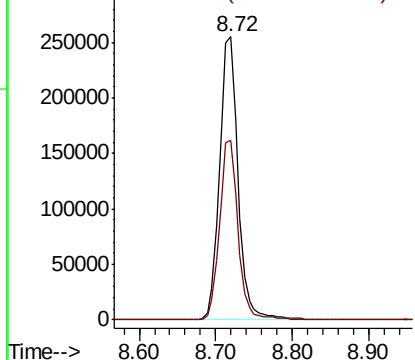


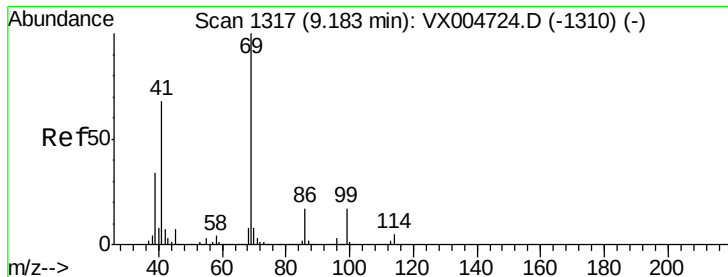
#50
Toluene-d8
Concen: 51.186 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

Tgt Ion: 98 Resp: 428110
Ion Ratio Lower Upper
98 100
100 63.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.867 ug/l

RT: 9.35 min Scan# 1344

Delta R.T. 0.16 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

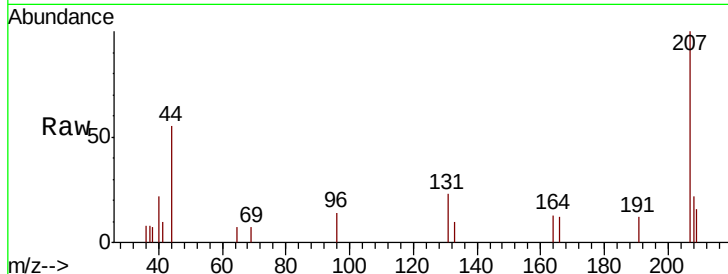
Tot Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 730.0 56.9 85.3#

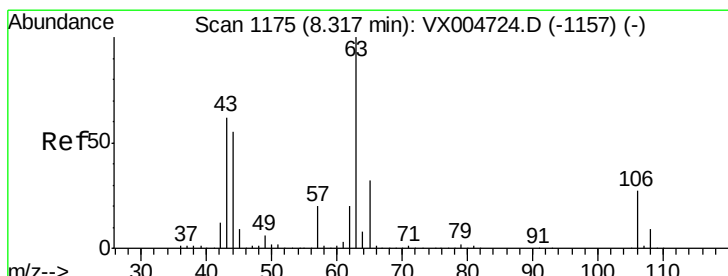
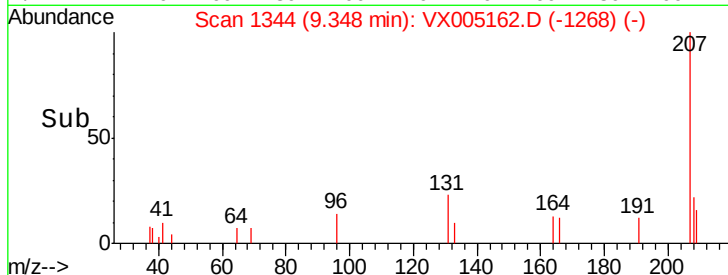
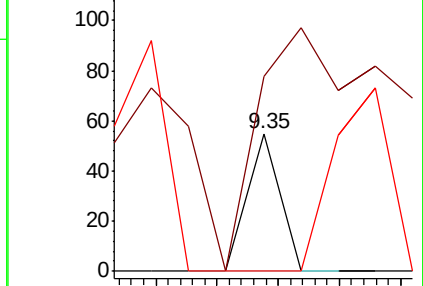
39 230.0 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.263 ug/l

RT: 8.56 min Scan# 1214

Delta R.T. 0.24 min

Lab File: VX005162.D

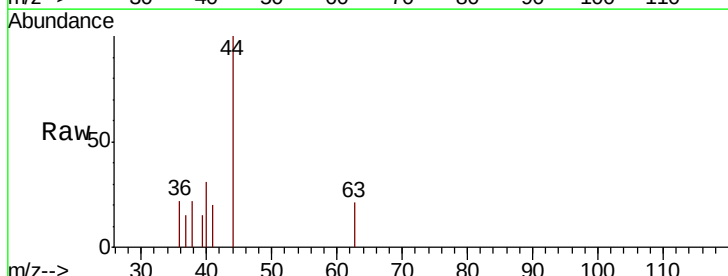
Acq: 09 Oct 2018 16:41

Tgt Ion: 63 Resp: 49

Ion Ratio Lower Upper

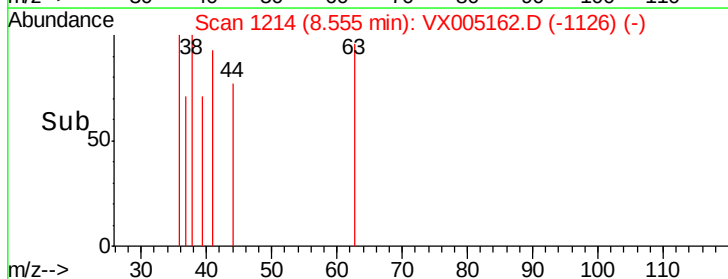
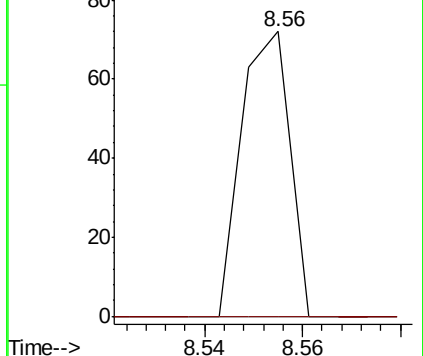
63 100

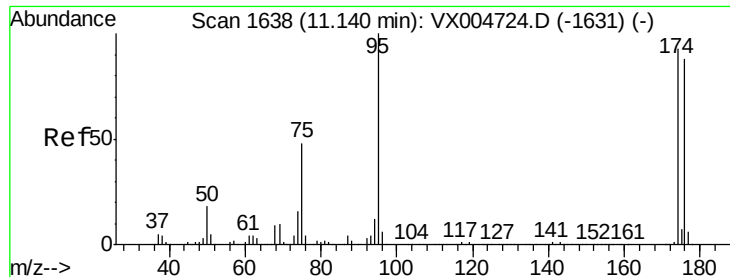
106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

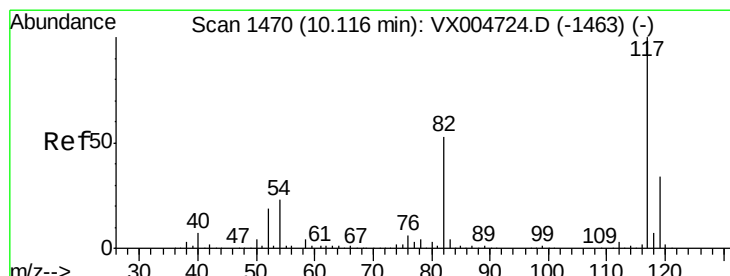
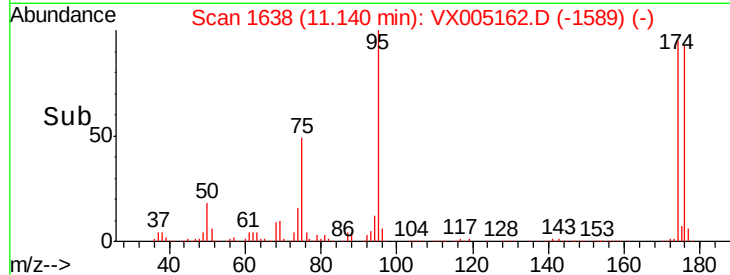
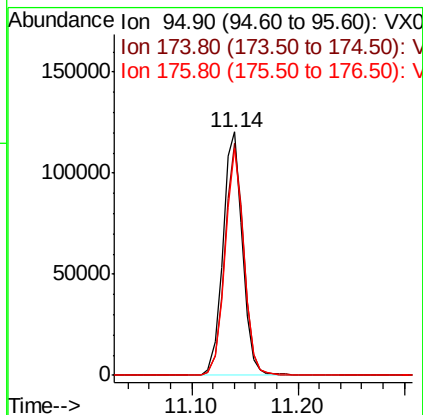
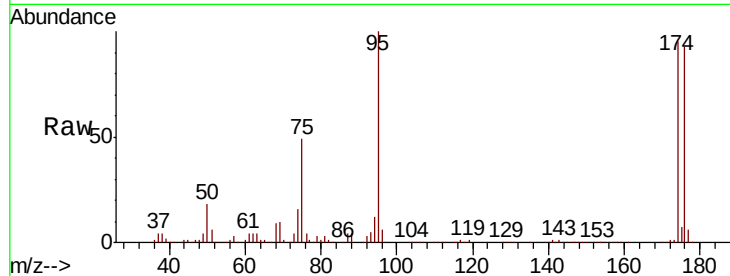




#62
4-Bromofluorobenzene
Concen: 51.272 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

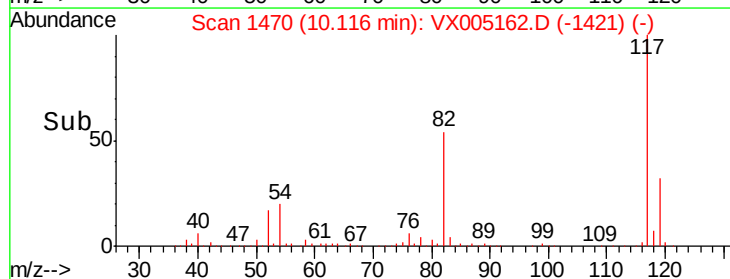
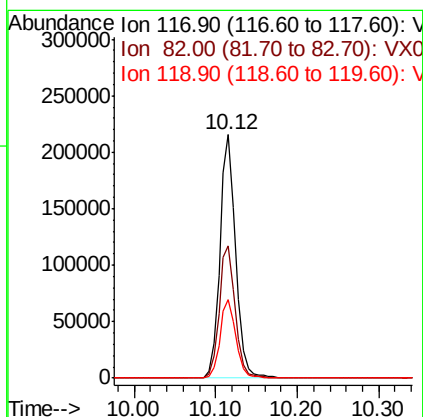
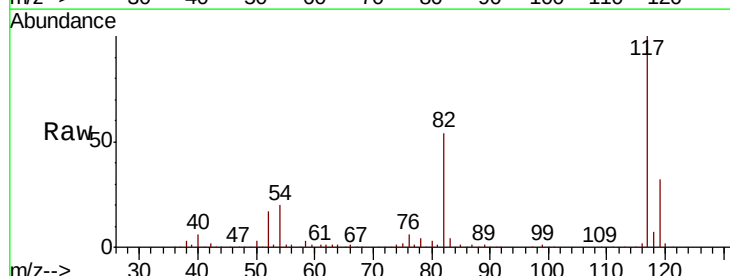
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

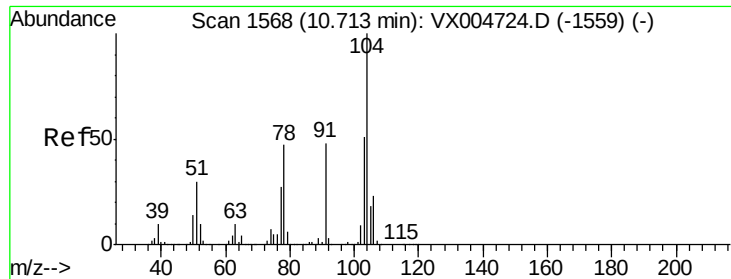
Tot Ion: 95 Resp: 154489
Ion Ratio Lower Upper
95 100
174 93.1 0.0 185.0
176 89.7 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

Tgt Ion: 117 Resp: 291536
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.4
119 32.4 27.4 41.0

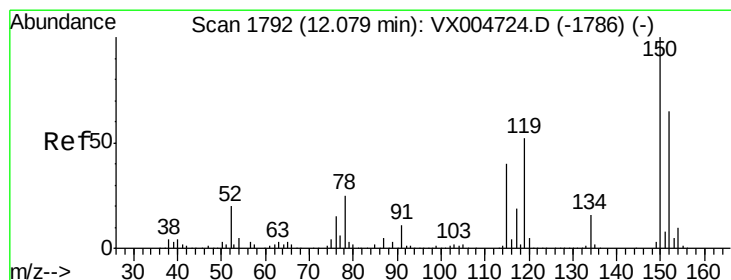
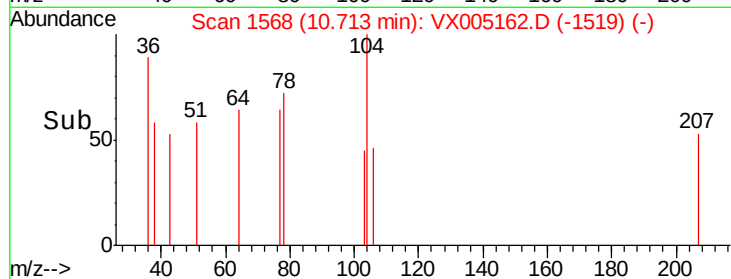
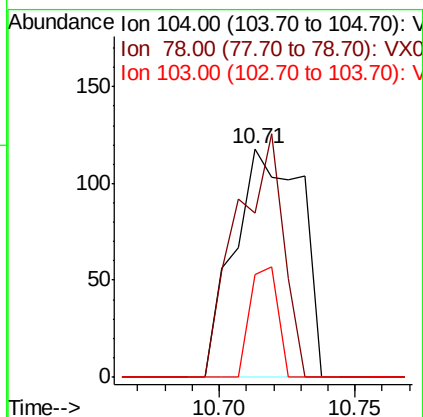
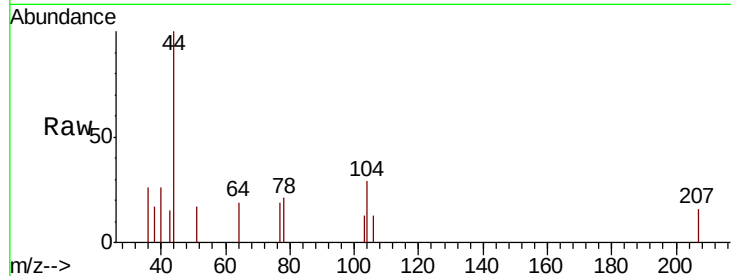




#70
Stvrene
Concen: 2.165 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

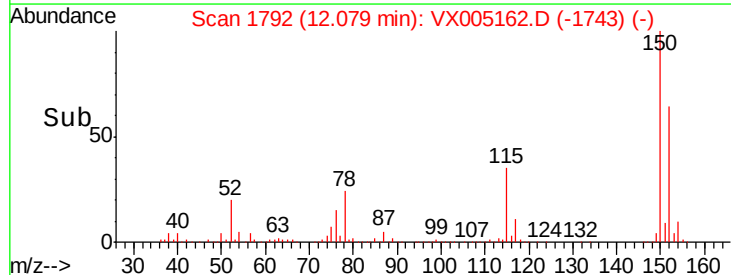
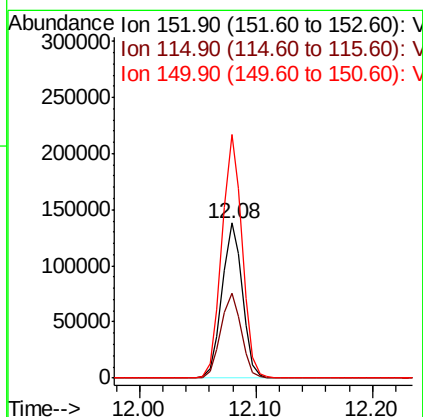
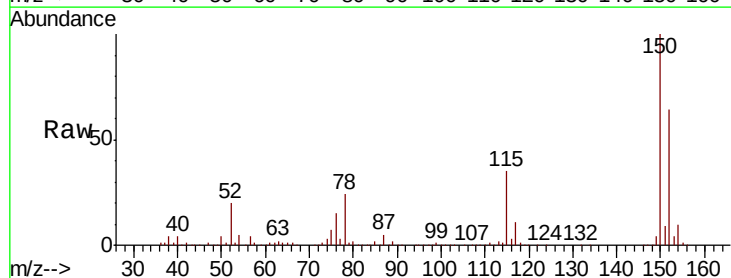
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

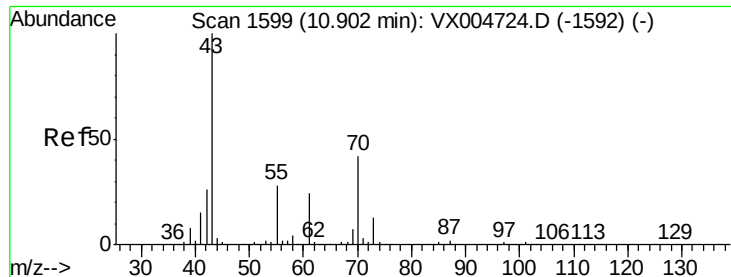
Tot Ion	Ratio	Lower	Upper
104	100		
78	74.6	40.0	60.0#
103	19.9	44.3	66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005162.D
Acq: 09 Oct 2018 16:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	40.2	120.6
150	156.4	0.0	351.0





#74

N-amvl acetate

Concen: 1.784 ug/l

RT: 10.88 min Scan# 1596

Delta R.T. -0.02 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

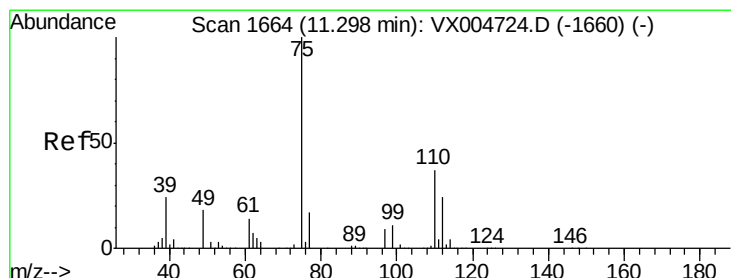
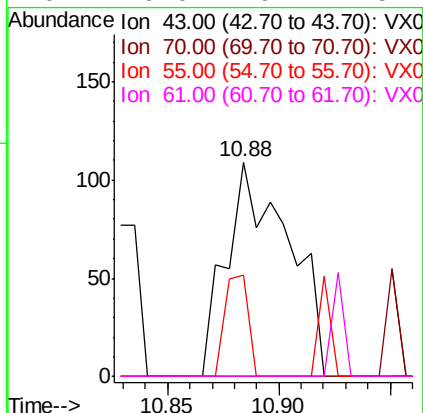
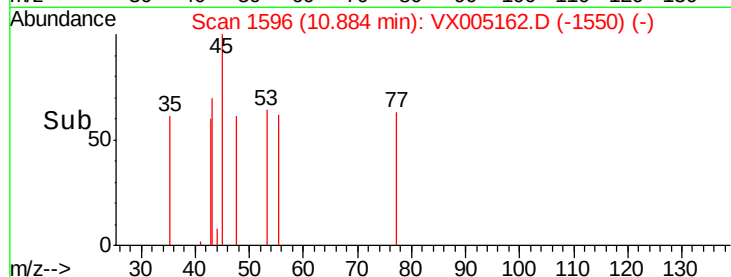
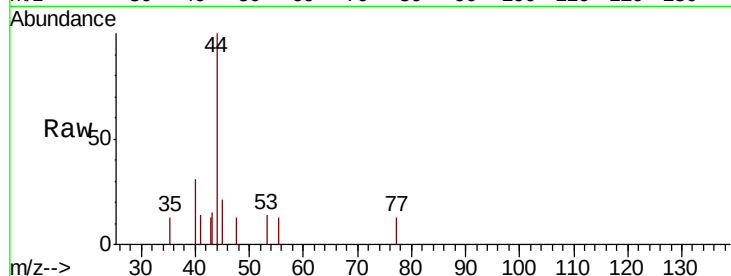
MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 213

Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.6	48.8#
55	17.4	21.6	32.4#
61	0.0	19.1	28.7#



#76

1,2,3-Trichloropropane

Concen: 20.616 ug/l

RT: 11.14 min Scan# 1638

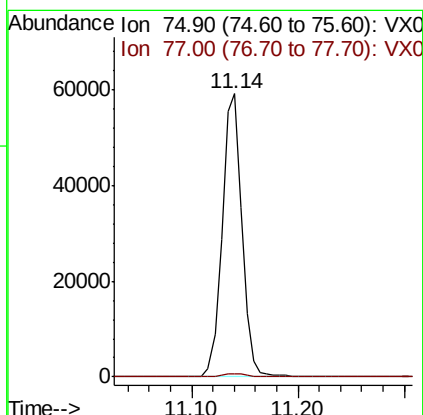
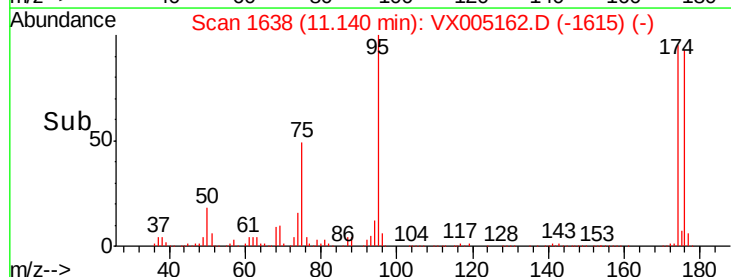
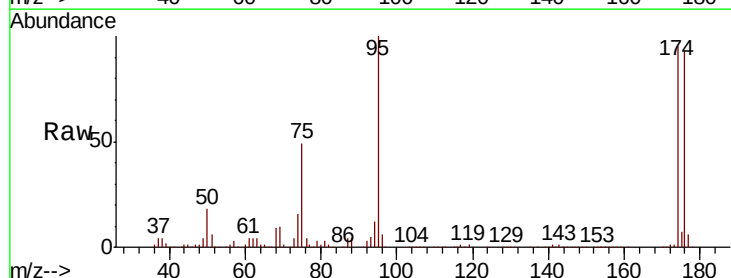
Delta R.T. -0.16 min

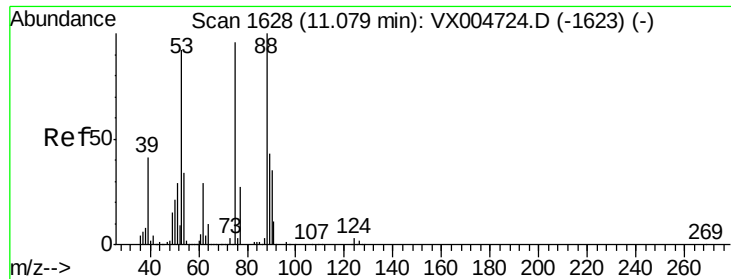
Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Tgt Ion: 75 Resp: 76843

Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.4	64.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 55.980 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

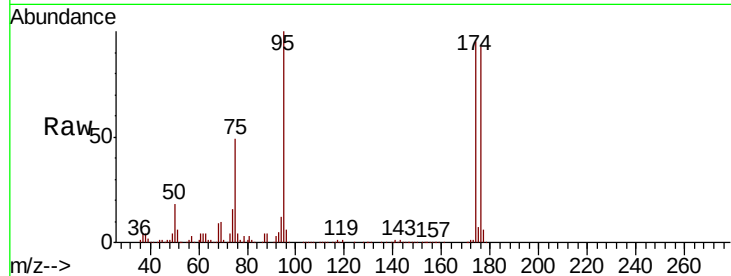
Tot Ion: 75 Resp: 76843

Ion Ratio Lower Upper

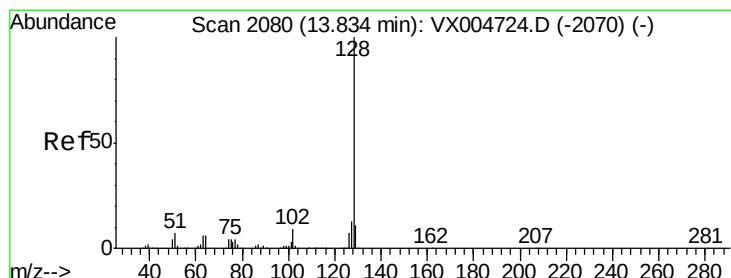
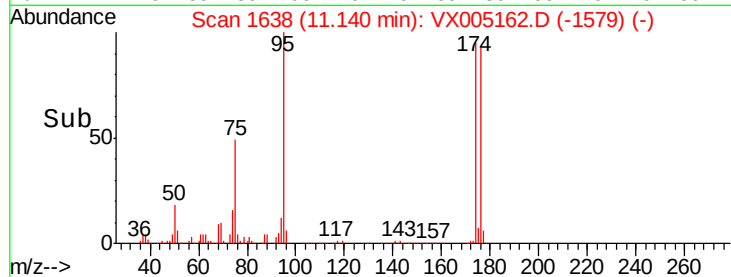
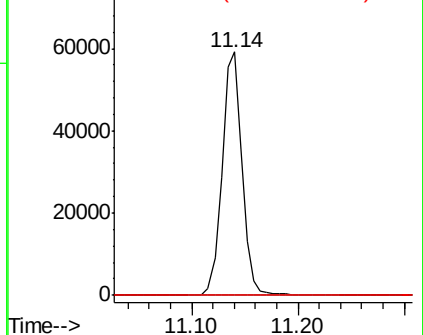
75 100

53 0.3 80.2 120.4#

89 0.1 37.1 55.7#



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: 0.768 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005162.D

Acq: 09 Oct 2018 16:41

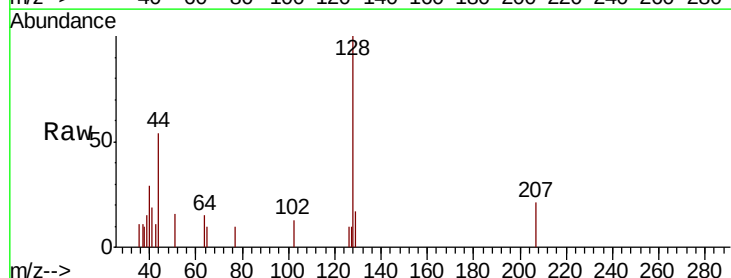
Tgt Ion: 128 Resp: 686

Ion Ratio Lower Upper

128 100

127 2.8 10.4 15.6#

129 12.1 8.7 13.1



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

