

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017106.D
 Acq On : 01 Jul 2020 18:17
 Operator : JC/SP
 Sample : L3164-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-590-594

Quant Time: Jul 02 01:38:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	227938	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	390221	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	402589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210511	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	150576	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	5.46	113	129887	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
50) Toluene-d8	8.70	98	477523	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
62) 4-Bromofluorobenzene	11.12	95	198632	55.67	ug/l	0.00
Spiked Amount			Recovery	=	111.34%	

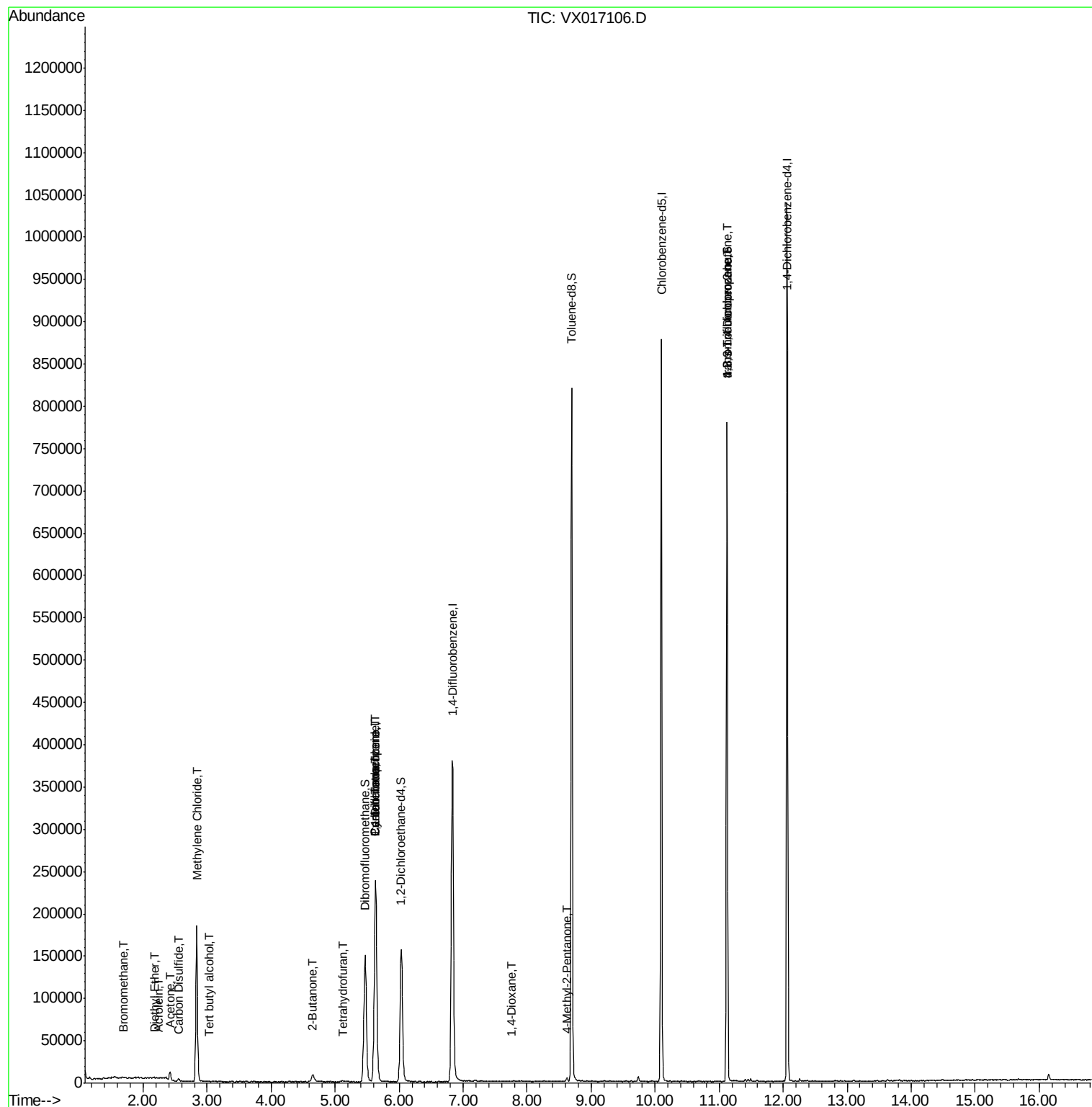
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.70	94	295	0.225	ug/l #	58
8) Diethyl Ether	2.17	74	638	0.879	ug/l	83
11) Tert butyl alcohol	3.03	59	489	0.912	ug/l #	73
13) Acrolein	2.25	56	113	0.353	ug/l #	1
16) Acetone	2.42	43	10468	9.958	ug/l	96
17) Carbon Disulfide	2.56	76	2583	0.433	ug/l #	94
20) Methylene Chloride	2.84	84	83456	34.372	ug/l	97
25) 2-Butanone	4.65	43	2846	1.625	ug/l	93
29) Tetrahydrofuran	5.12	42	1388	1.199	ug/l #	50
31) Cyclohexane	5.63	56	4512	1.189	ug/l #	16
36) 1,1-Dichloropropene	5.63	75	17286	4.687	ug/l #	50
38) Carbon Tetrachloride	5.63	117	22307	5.491	ug/l #	18
44) Trichloroethene	7.20	130	613	Below Cal		65
49) 1,4-Dioxane	7.75	88	21	0.314	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2678	0.723	ug/l	92
76) 1,2,3-Trichloropropane	11.12	75	99743	24.095	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	99743	62.397	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	438	Below Cal	#	1

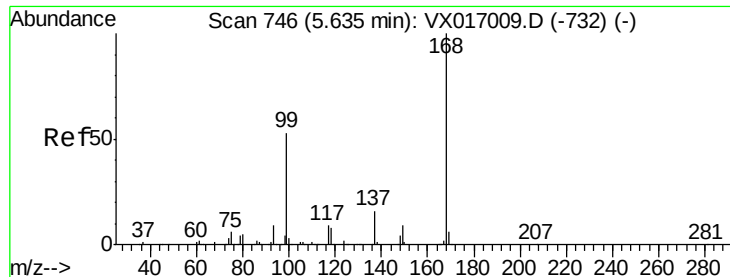
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

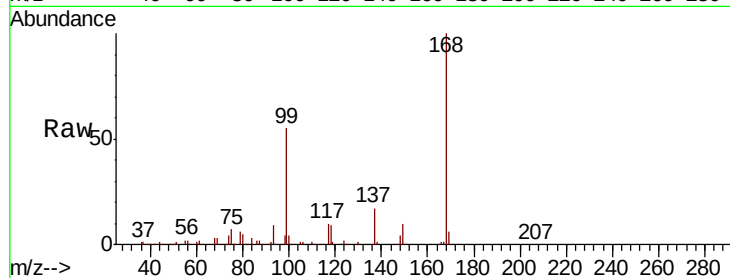
BP-MW180-SOIL-590-594

Tot Ion:168 Resp: 227938

Ion Ratio Lower Upper

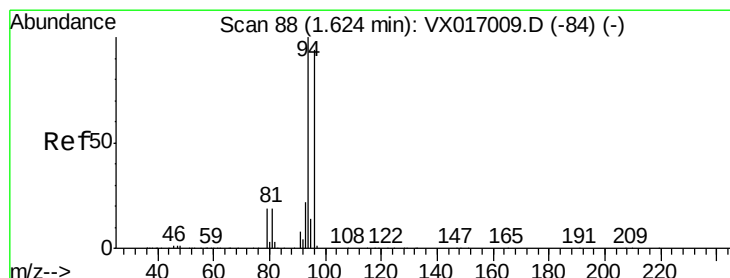
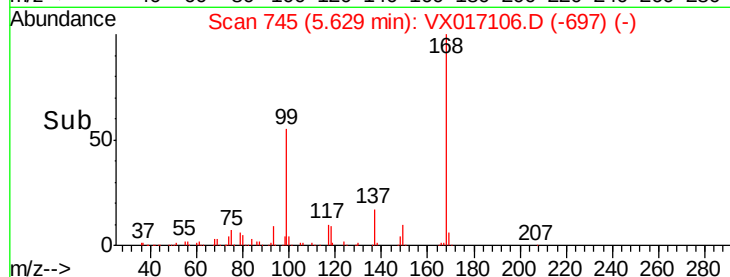
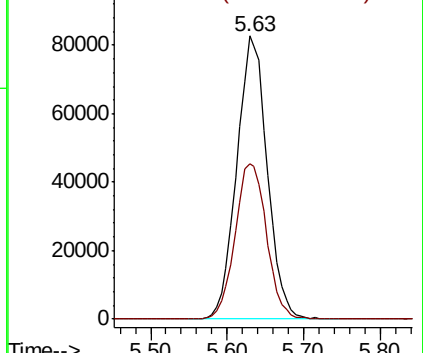
168 100

99 54.7 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.70 min Scan# 100

Delta R.T. 0.07 min

Lab File: VX017106.D

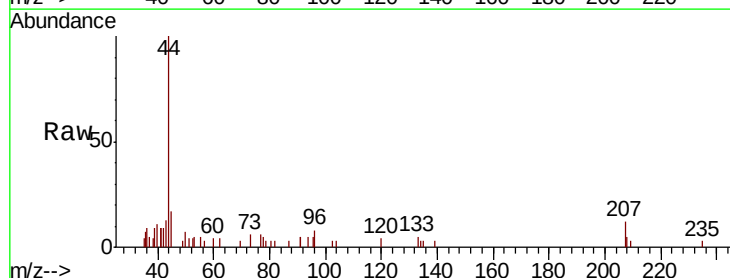
Acq: 01 Jul 2020 18:17

Tgt Ion: 94 Resp: 295

Ion Ratio Lower Upper

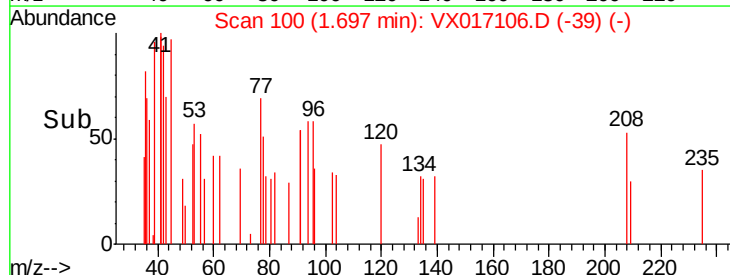
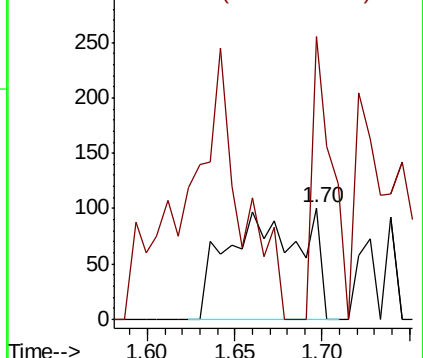
94 100

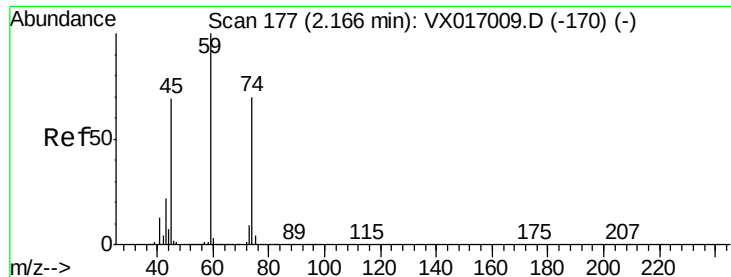
96 134.7 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.879 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

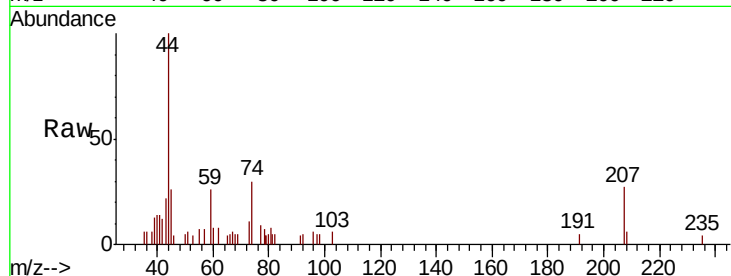
BP-MW180-SOIL-590-594

Tot Ion: 74 Resp: 638

Ion Ratio Lower Upper

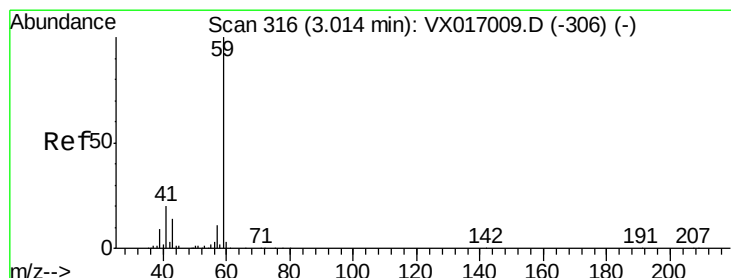
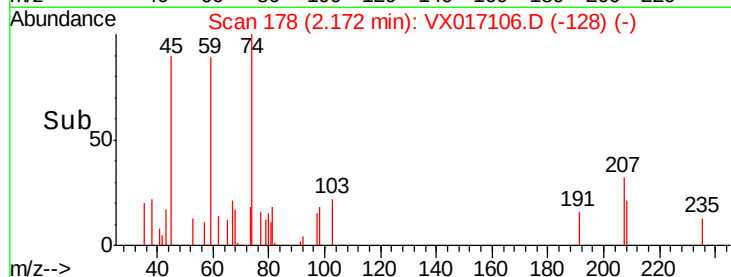
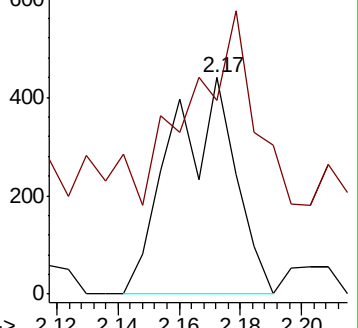
74 100

45 116.9 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.912 ug/l

RT: 3.03 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX017106.D

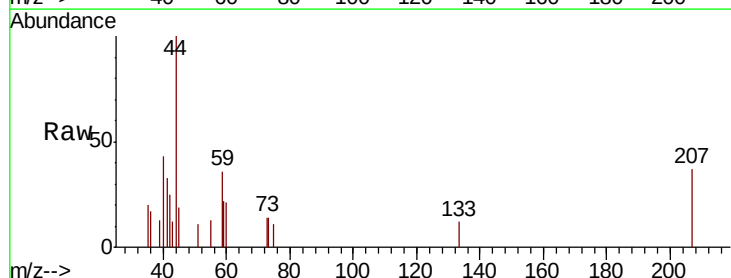
Acq: 01 Jul 2020 18:17

Tgt Ion: 59 Resp: 489

Ion Ratio Lower Upper

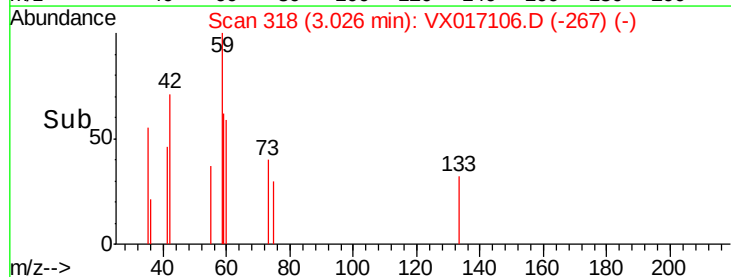
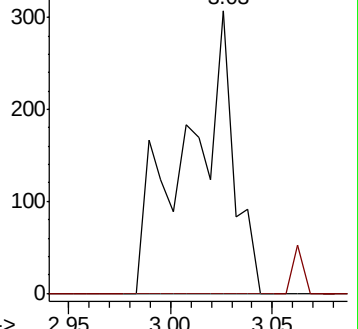
59 100

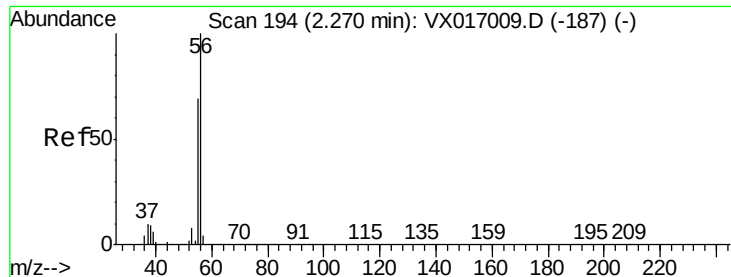
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.353 ug/l

RT: 2.25 min Scan# 190

Delta R.T. -0.02 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

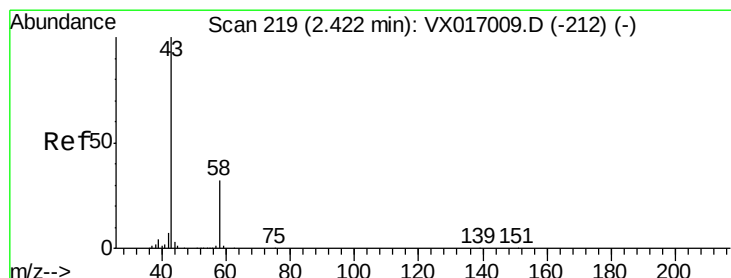
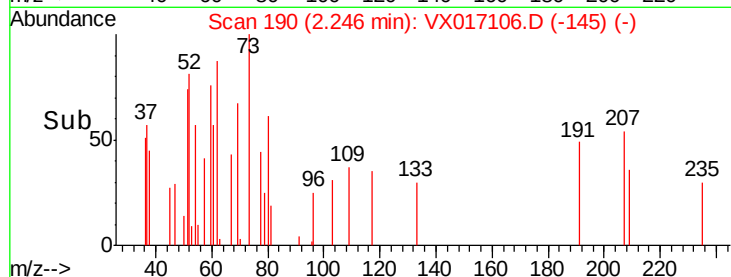
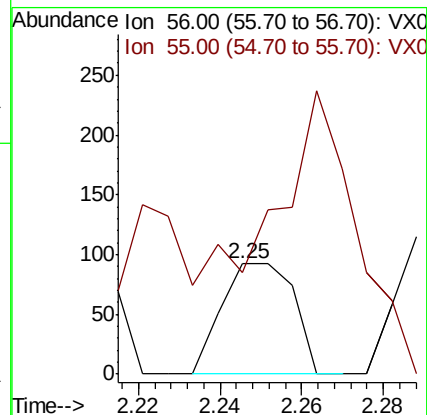
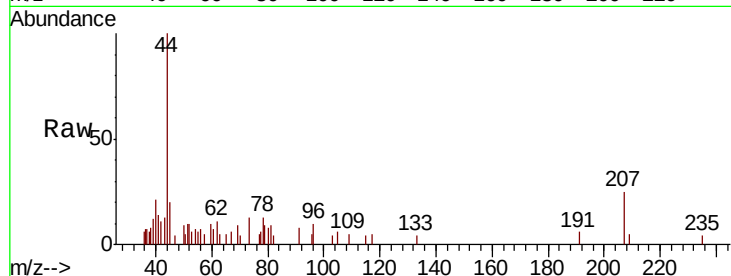
BP-MW180-SOIL-590-594

Tot Ion: 56 Resp: 113

Ion Ratio Lower Upper

56 100

55 269.0 55.7 83.5#



#16

Acetone

Concen: 9.958 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017106.D

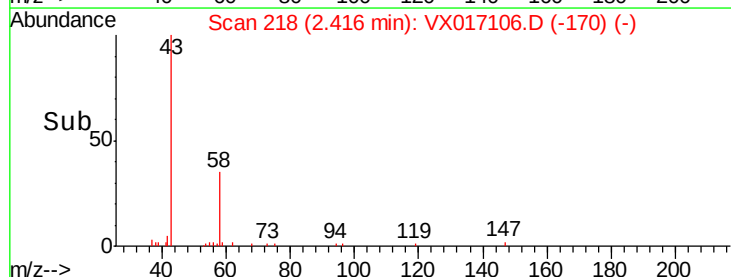
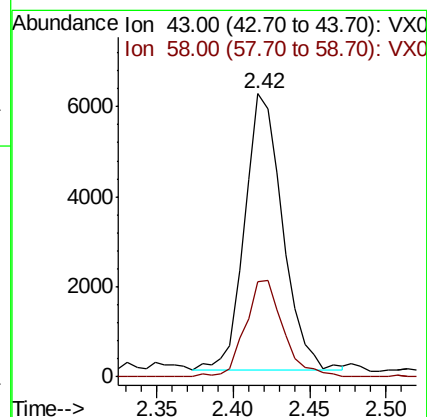
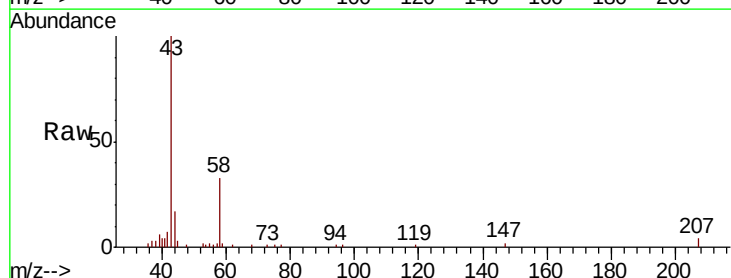
Acq: 01 Jul 2020 18:17

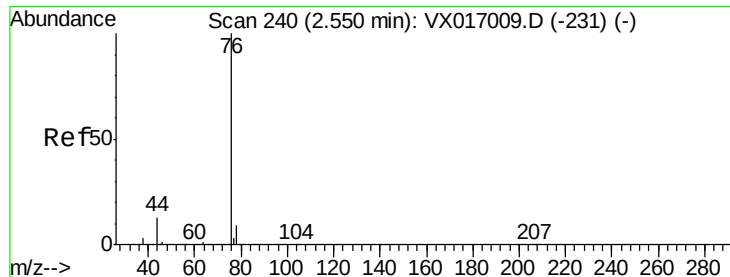
Tgt Ion: 43 Resp: 10468

Ion Ratio Lower Upper

43 100

58 34.4 25.7 38.5





#17

Carbon Disulfide

Concen: 0.433 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

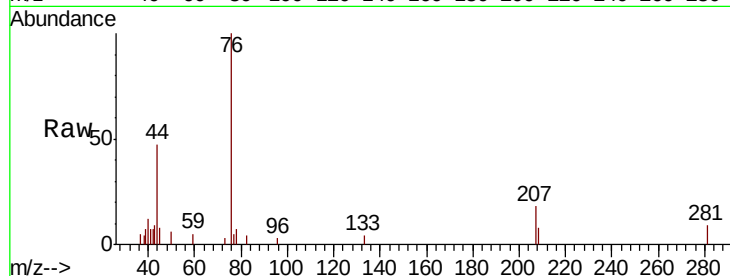
BP-MW180-SOIL-590-594

Tot Ion: 76 Resp: 2583

Ion Ratio Lower Upper

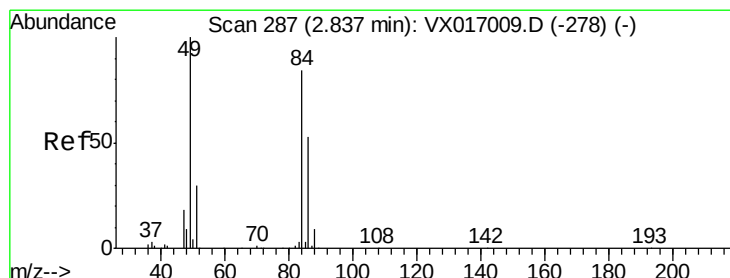
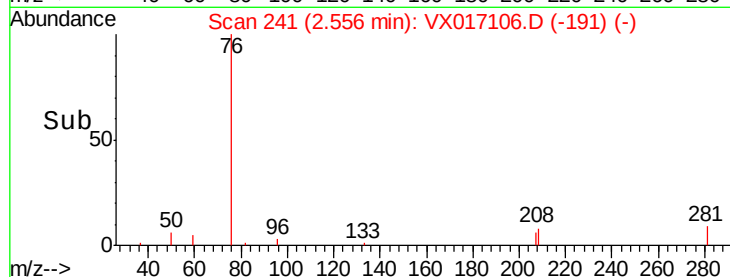
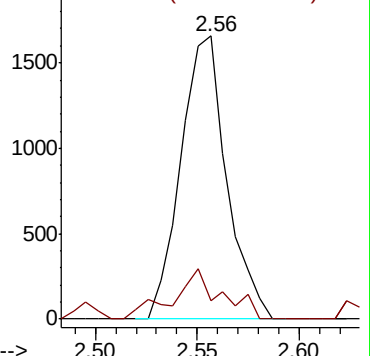
76 100

78 6.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 34.372 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Tgt Ion: 84 Resp: 83456

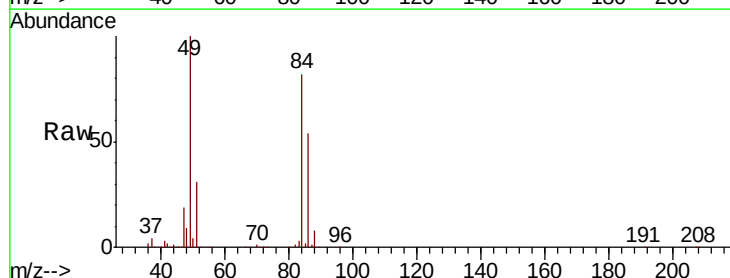
Ion Ratio Lower Upper

84 100

49 121.9 94.7 142.1

51 38.1 28.6 42.8

86 65.3 50.5 75.7

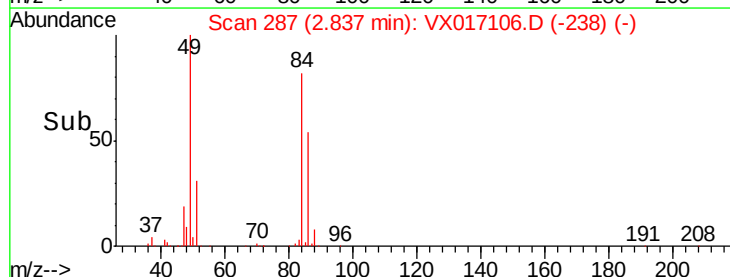
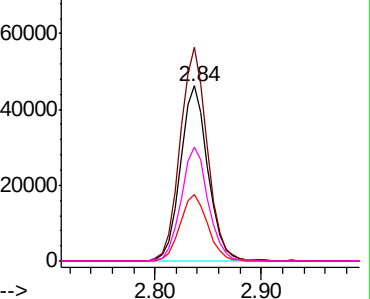


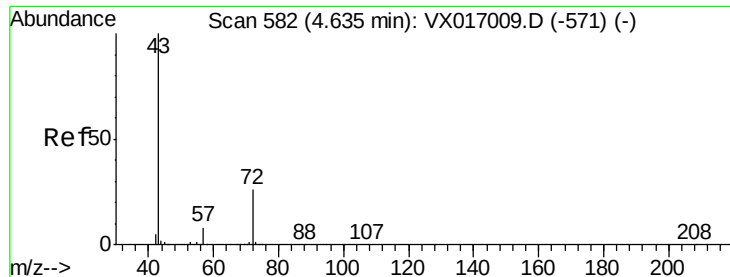
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.625 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

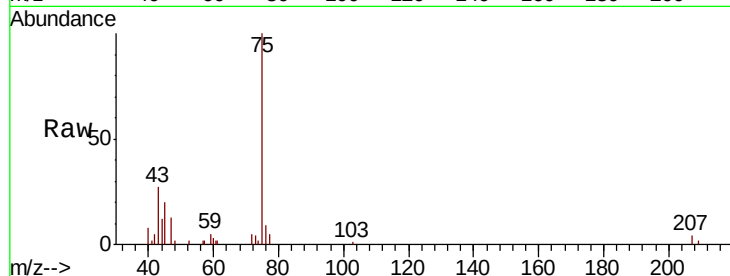
BP-MW180-SOIL-590-594

Tot Ion: 43 Resp: 2846

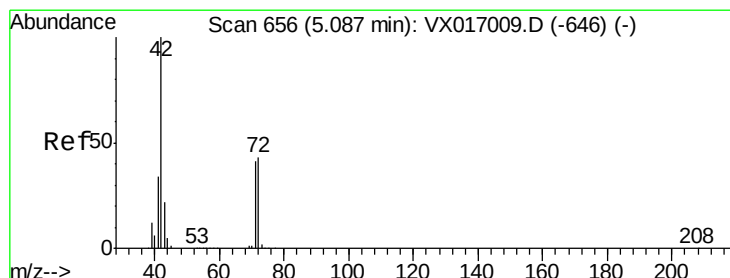
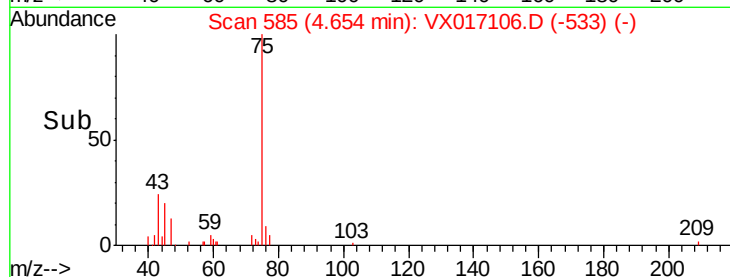
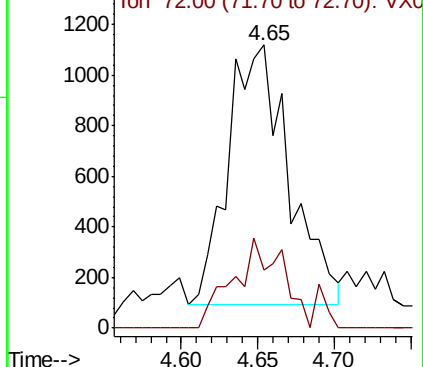
Ion Ratio Lower Upper

43 100

72 22.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 1.199 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.03 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

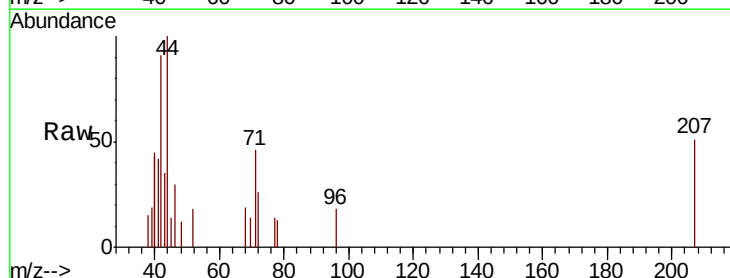
Tgt Ion: 42 Resp: 1388

Ion Ratio Lower Upper

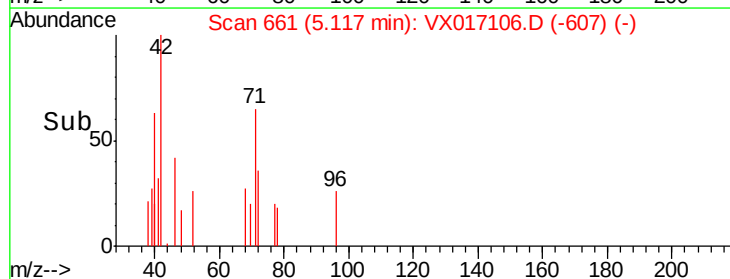
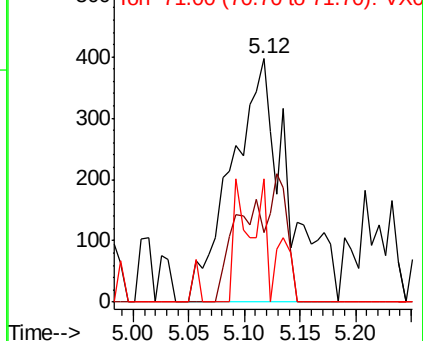
42 100

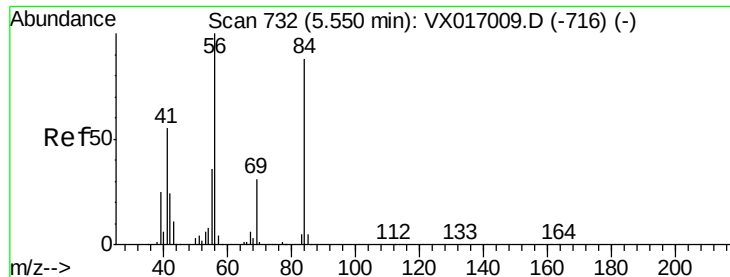
72 16.4 35.3 52.9#

71 4.9 33.1 49.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

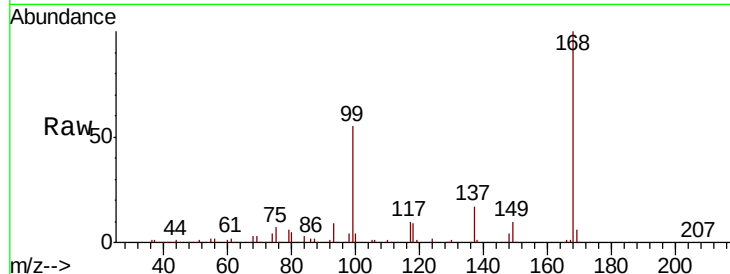




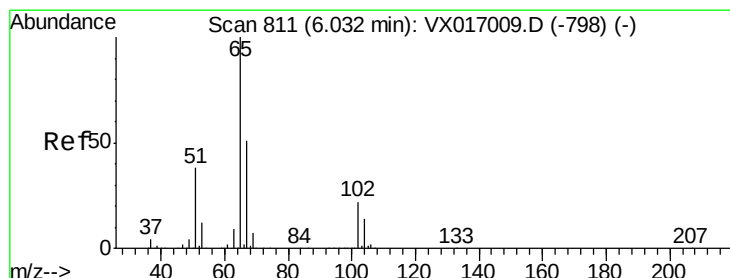
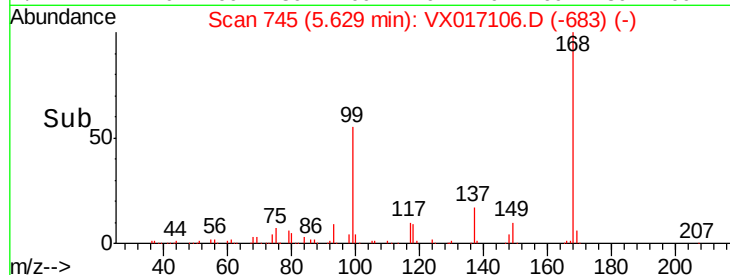
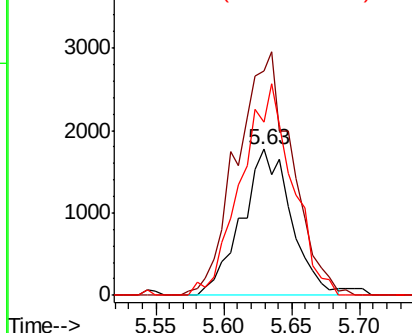
#31
Cyclohexane
Concen: 1.189 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

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MSVOA_X
ClientSampleId :
BP-MW180-SOIL-590-594

Tot Ion: 56 Resp: 4512
Ion Ratio Lower Upper
56 100
69 150.8 25.0 37.4#
84 119.0 69.1 103.7#

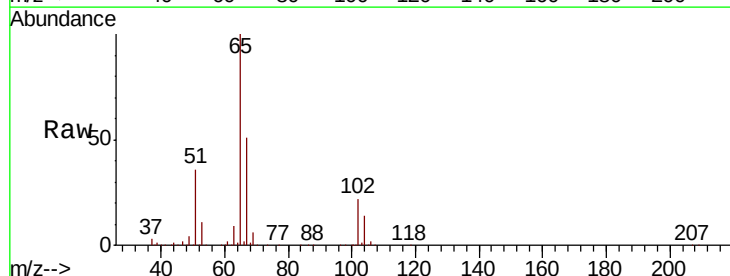


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

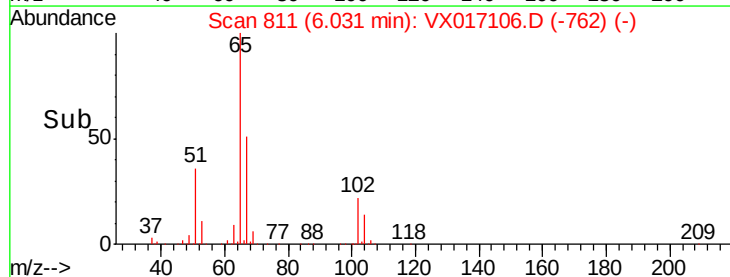
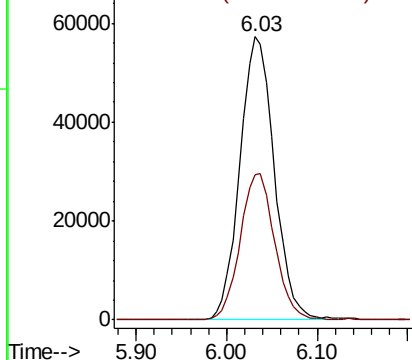


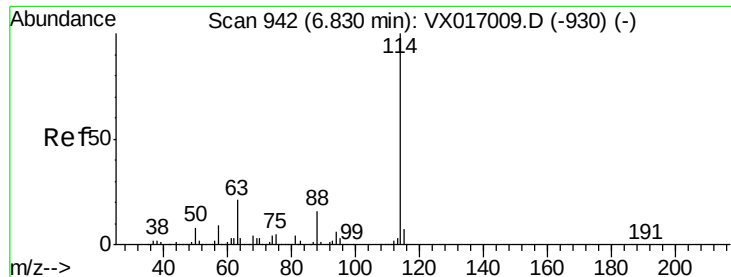
#33
1,2-Dichloroethane-d4
Concen: 53.585 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

Tgt Ion: 65 Resp: 150576
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-590-594

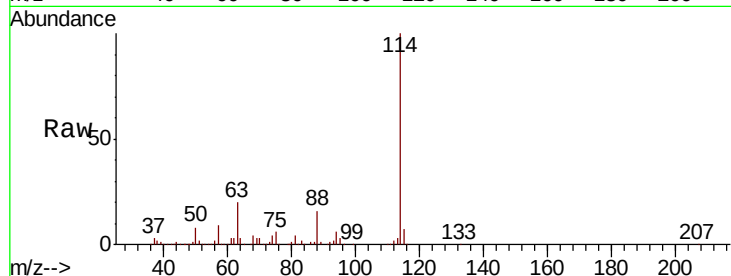
Tot Ion:114 Resp: 390221

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

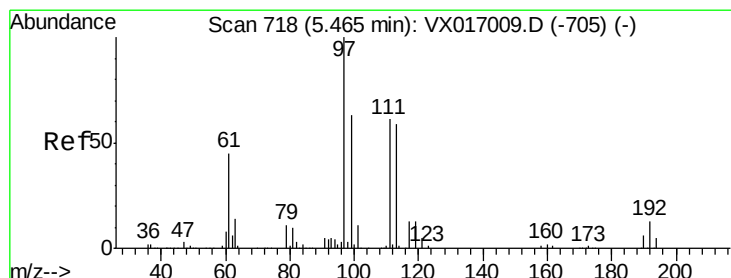
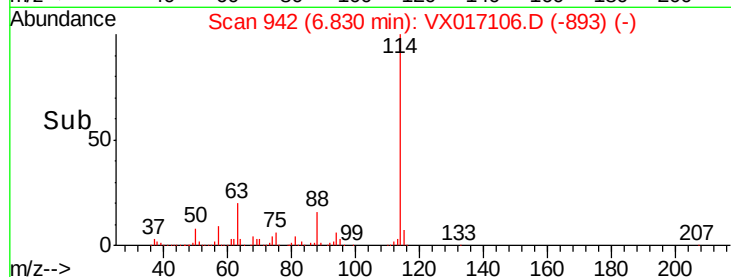
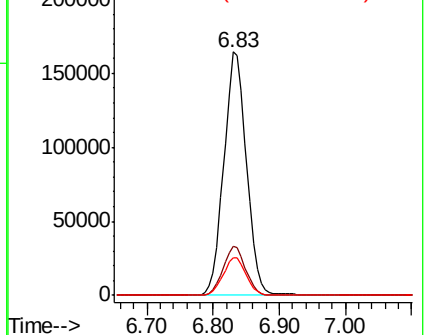
88 15.7 0.0 32.4



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



#35

Dibromofluoromethane

Concen: 52.619 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

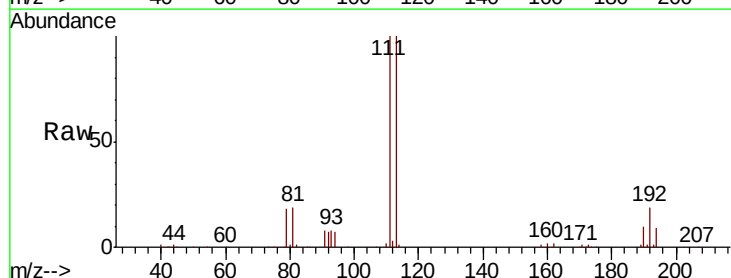
Tgt Ion:113 Resp: 129887

Ion Ratio Lower Upper

113 100

111 101.8 81.9 122.9

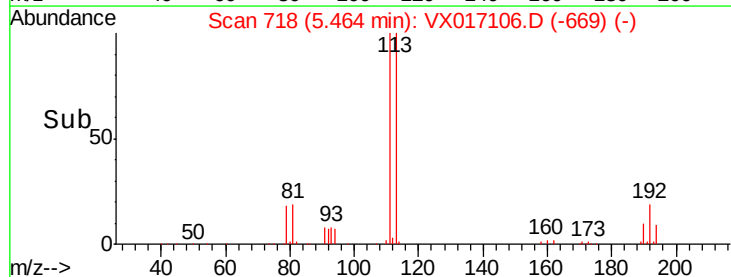
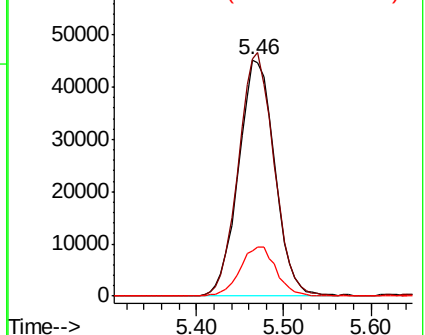
192 20.9 16.7 25.1

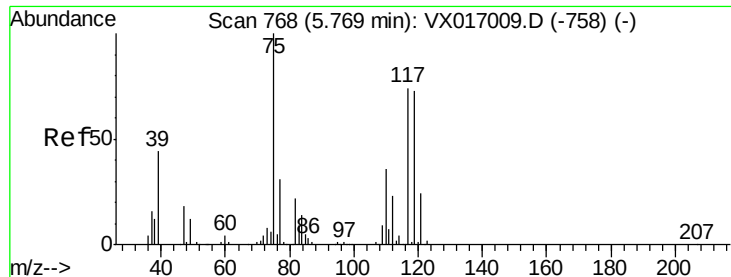


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

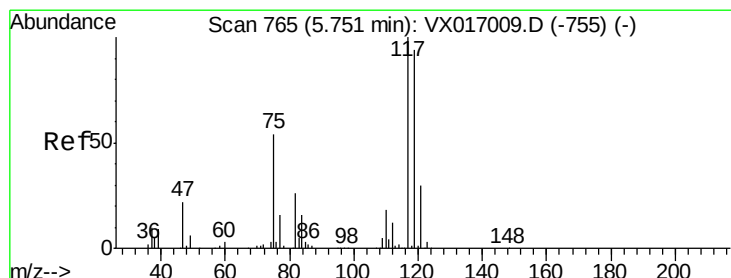
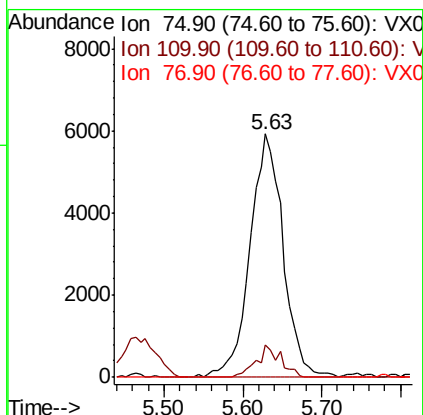
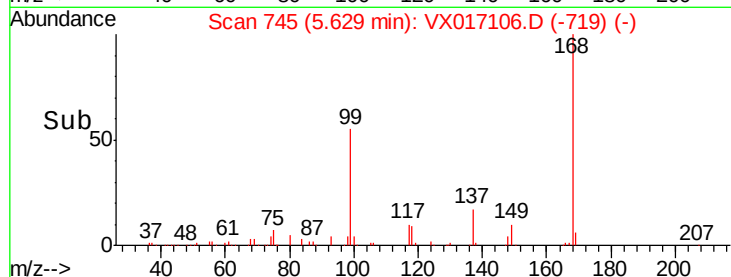
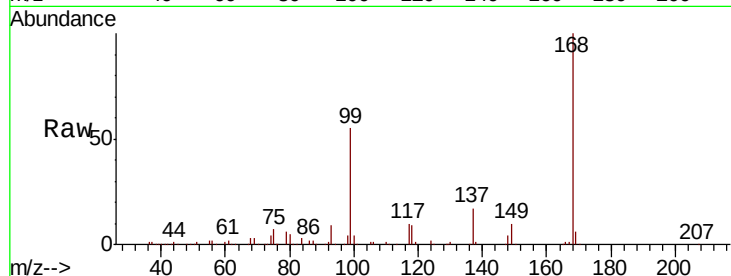




#36
 1,1-Dichloropropene
 Concen: 4.687 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017106.D
 Acq: 01 Jul 2020 18:17

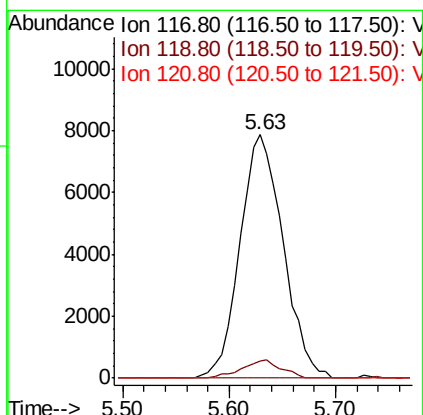
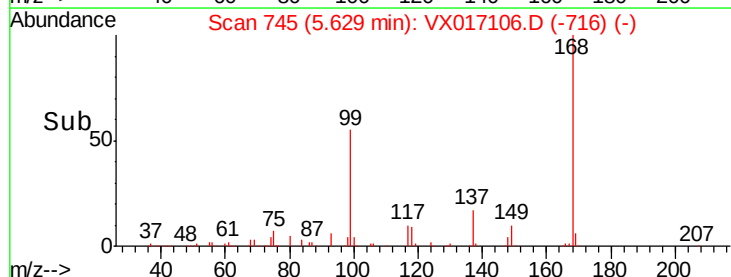
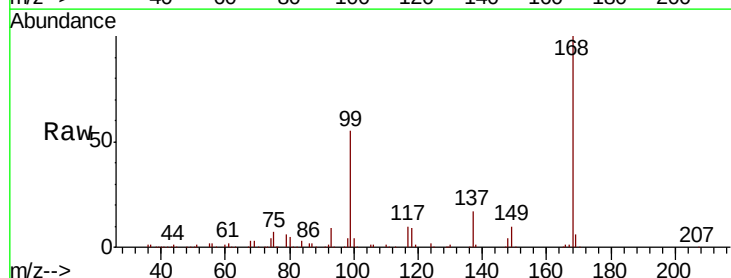
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-590-594

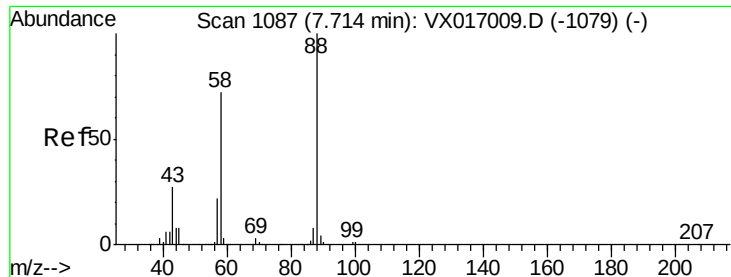
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.1	54.1#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.491 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017106.D
 Acq: 01 Jul 2020 18:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	75.4	113.0#
121	0.0	23.8	35.6#

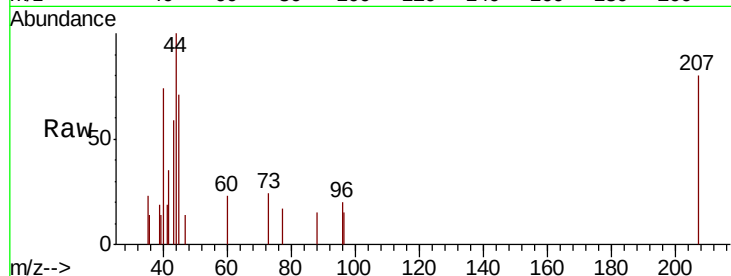




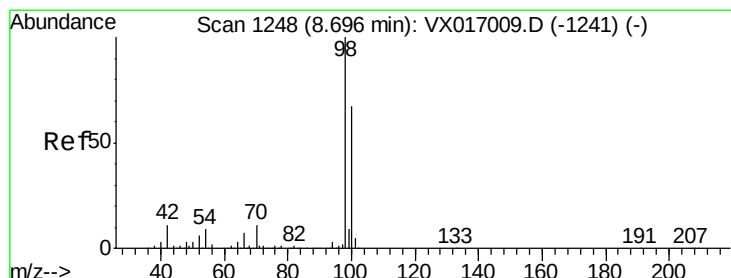
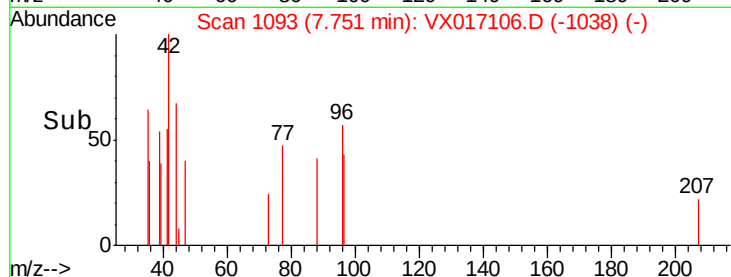
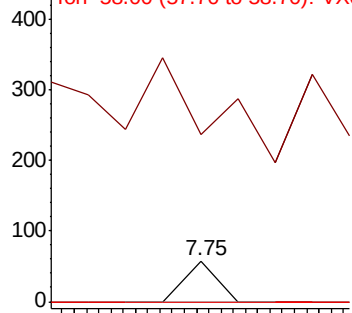
#49
1,4-Dioxane
Concen: 0.314 ug/l
RT: 7.75 min Scan# 1093
Delta R.T. 0.04 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-590-594

Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 0.0 54.8 82.2#

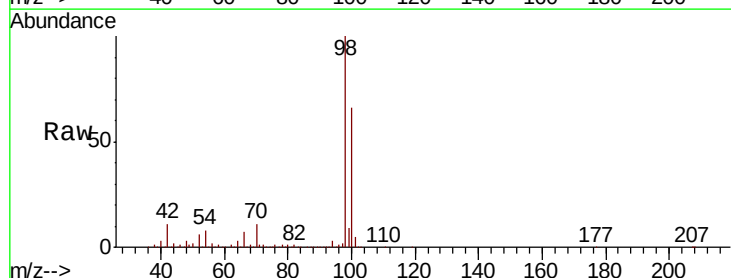


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

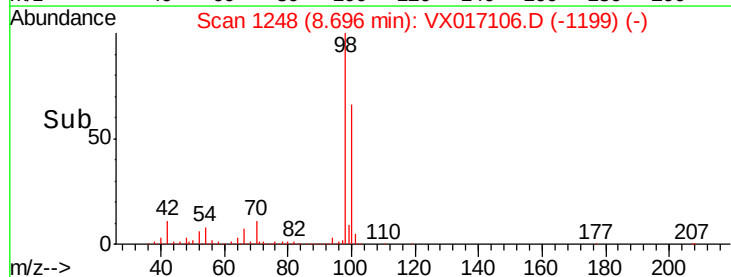
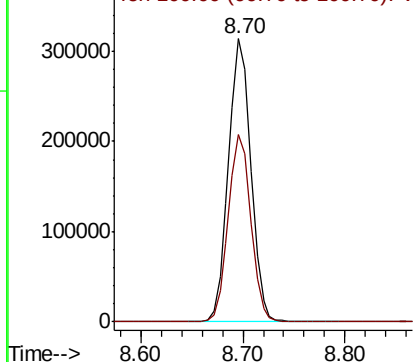


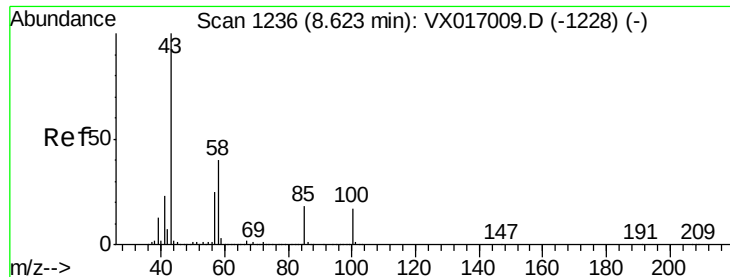
#50
Toluene-d8
Concen: 52.316 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

Tgt Ion: 98 Resp: 477523
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.6



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: 0.723 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

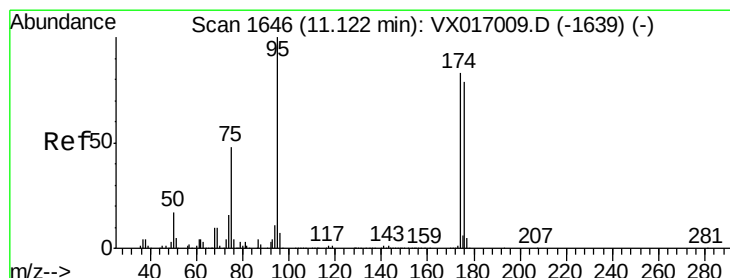
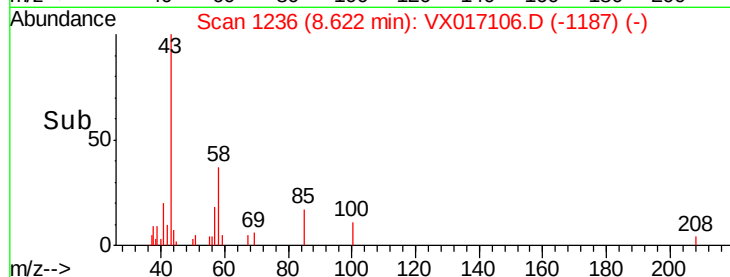
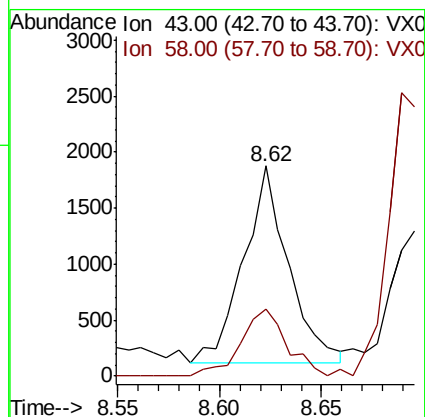
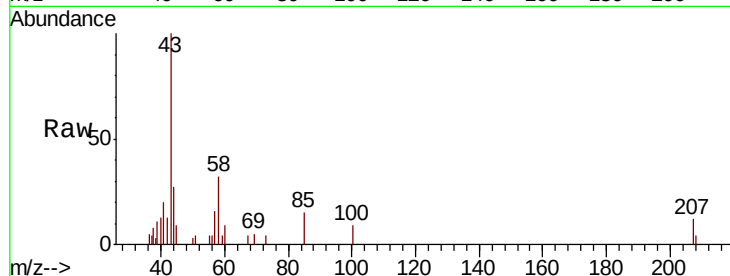
BP-MW180-SOIL-590-594

Tot Ion: 43 Resp: 2678

Ion Ratio Lower Upper

43 100

58 34.9 31.9 47.9



#62

4-Bromofluorobenzene

Concen: 55.668 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

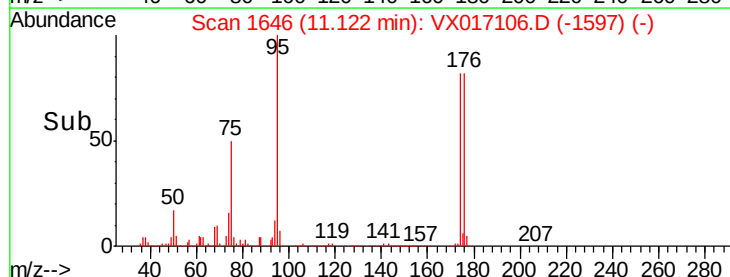
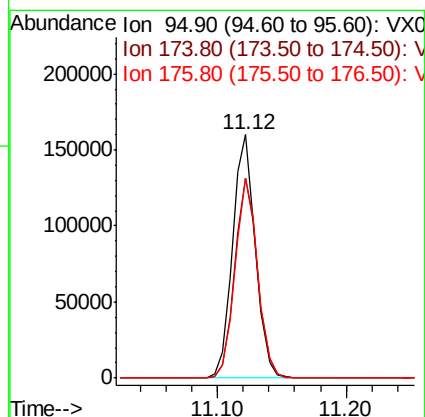
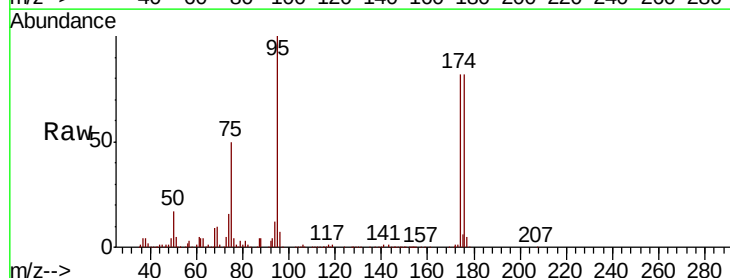
Tgt Ion: 95 Resp: 198632

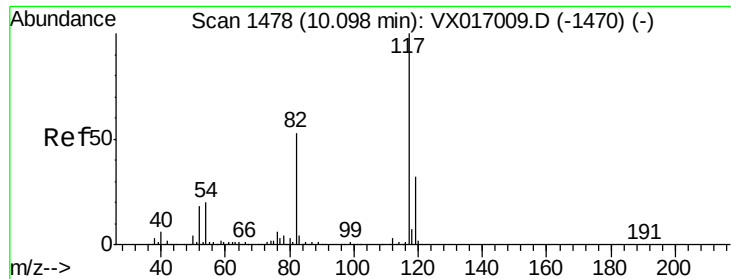
Ion Ratio Lower Upper

95 100

174 82.0 0.0 164.0

176 81.0 0.0 157.6

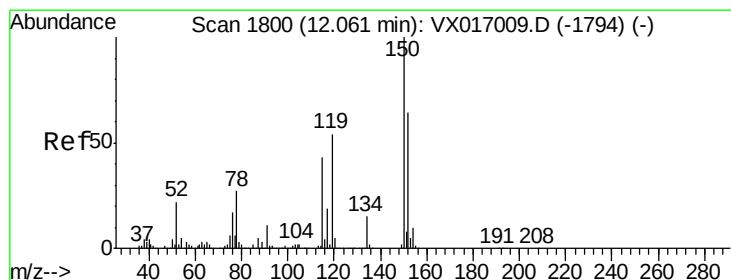
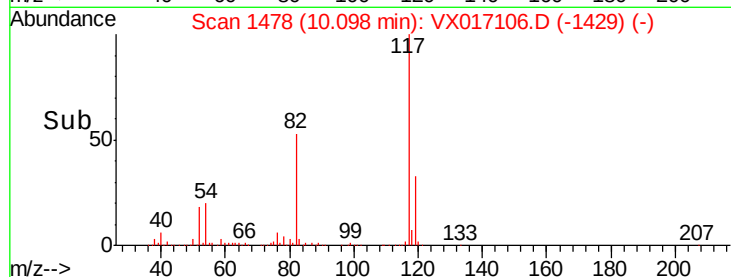
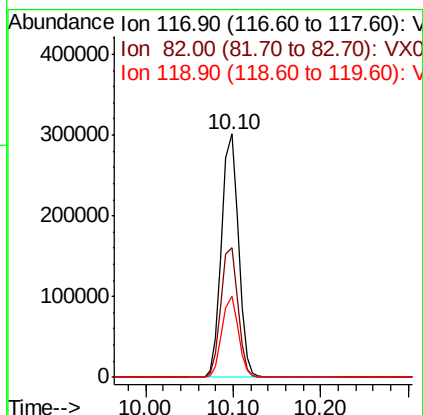
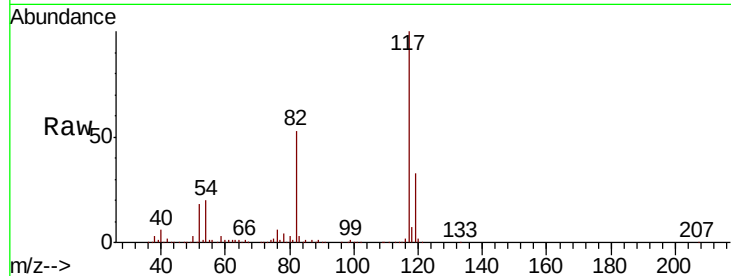




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

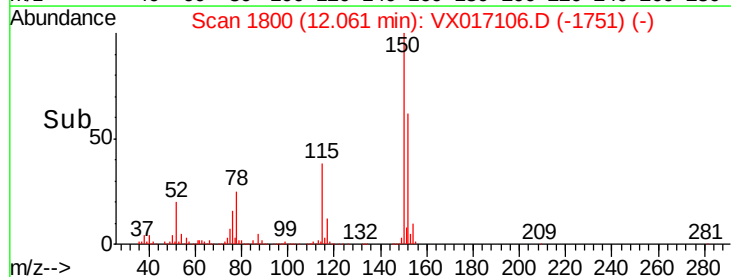
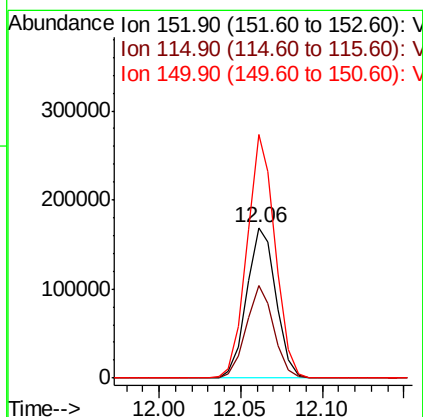
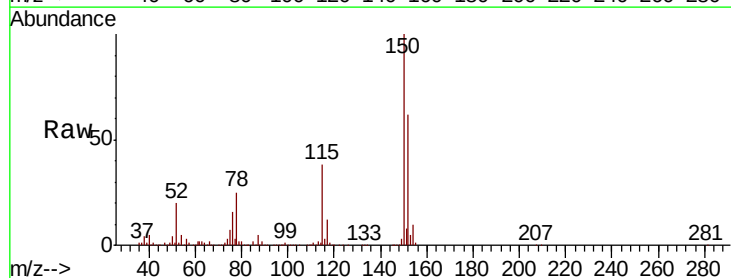
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-590-594

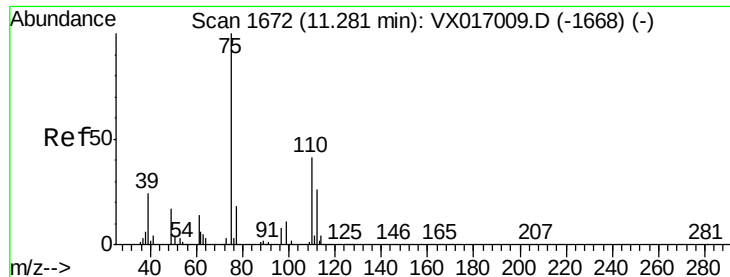
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.6	63.8
119	33.4	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017106.D
Acq: 01 Jul 2020 18:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	40.9	122.7
150	156.3	0.0	351.6





#76

1,2,3-Trichloropropane

Concen: 24.095 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

Instrument :

MSVOA_X

ClientSampleId :

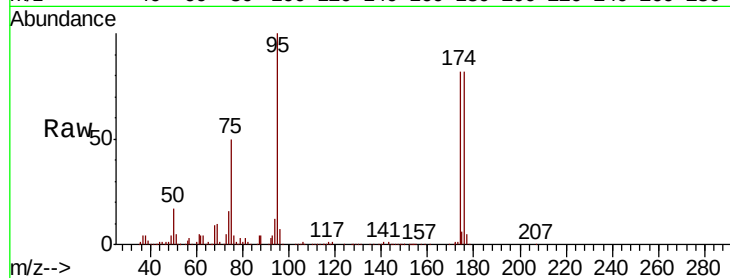
BP-MW180-SOIL-590-594

Tot Ion: 75 Resp: 99743

Ion Ratio Lower Upper

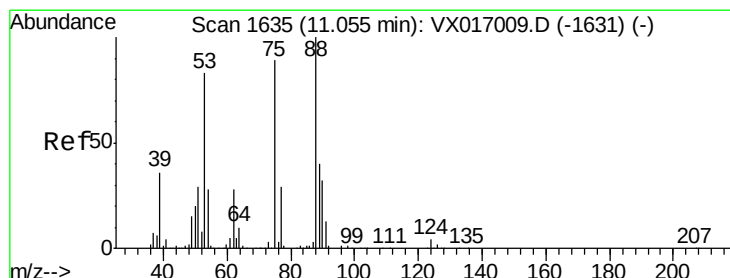
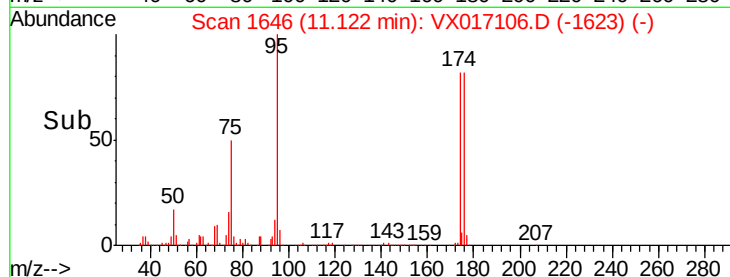
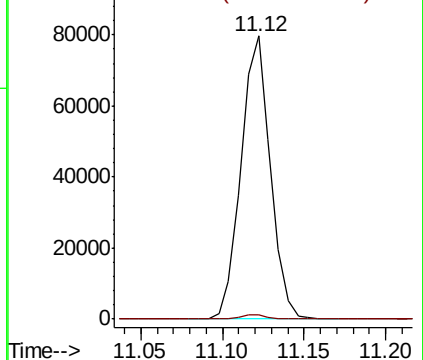
75 100

77 1.5 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: 62.397 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017106.D

Acq: 01 Jul 2020 18:17

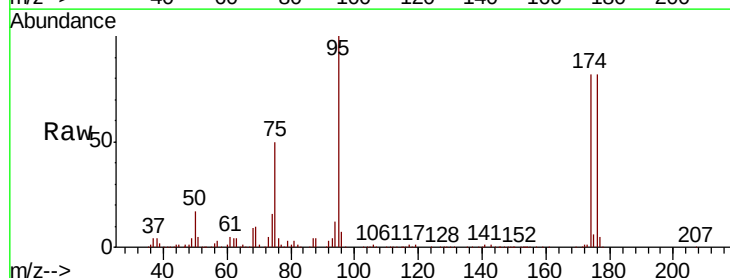
Tgt Ion: 75 Resp: 99743

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#



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

