

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070120\
 Data File : VX017107.D
 Acq On : 01 Jul 2020 18:40
 Operator : JC/SP
 Sample : L3164-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-594-598

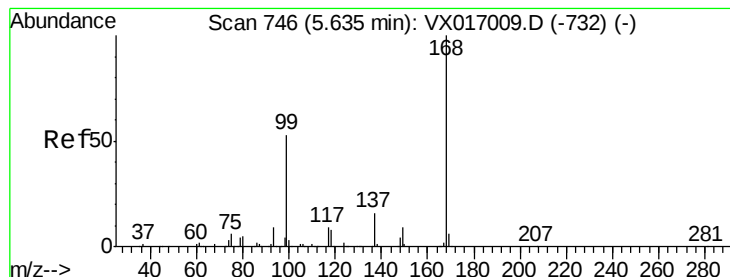
Quant Time: Jul 02 01:38:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	224466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	384257	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	403505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204409	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	148219	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
35) Dibromofluoromethane	5.47	113	126204	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
50) Toluene-d8	8.70	98	470407	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	11.12	95	196984	56.06	ug/l	0.00
Spiked Amount			Recovery	=	112.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1322	1.447	ug/l	73
11) Tert butyl alcohol	3.01	59	408	0.773	ug/l #	86
13) Acrolein	2.25	56	303	0.960	ug/l	90
16) Acetone	2.42	43	9950	9.612	ug/l	99
17) Carbon Disulfide	2.55	76	2133	0.367	ug/l #	86
18) Methyl Acetate	2.75	43	725	0.268	ug/l #	58
20) Methylene Chloride	2.84	84	25347	10.051	ug/l	95
25) 2-Butanone	4.65	43	2943	1.706	ug/l #	85
29) Tetrahydrofuran	5.10	42	1381	1.212	ug/l #	78
30) Chloroform	5.18	83	1038	0.234	ug/l	91
31) Cyclohexane	5.63	56	4449	1.191	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16833	4.635	ug/l #	50
38) Carbon Tetrachloride	5.63	117	21654	5.413	ug/l #	19
44) Trichloroethene	7.20	130	218	Below Cal		68
49) 1,4-Dioxane	7.77	88	22	0.334	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2677	0.733	ug/l	98
59) 2-Hexanone	9.51	43	634	0.238	ug/l #	33
76) 1,2,3-Trichloropropane	11.12	75	100200	24.928	ug/l #	37
79) 2-Chlorotoluene	11.41	91	2343	0.256	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	100200	64.554	ug/l #	13
82) 4-Chlorotoluene	11.49	91	2272	0.207	ug/l	94
88) 1,4-Dichlorobenzene	12.07	146	429	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017107.D

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MSVOA_X

ClientSampleId :

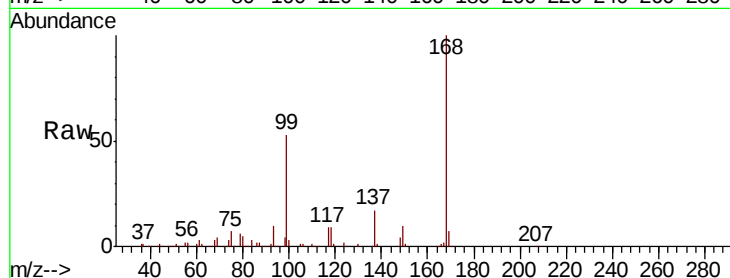
BP-MW180-SOIL-594-598

Tot Ion:168 Resp: 224466

Ion Ratio Lower Upper

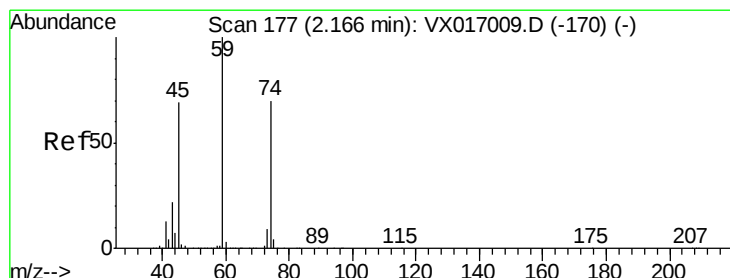
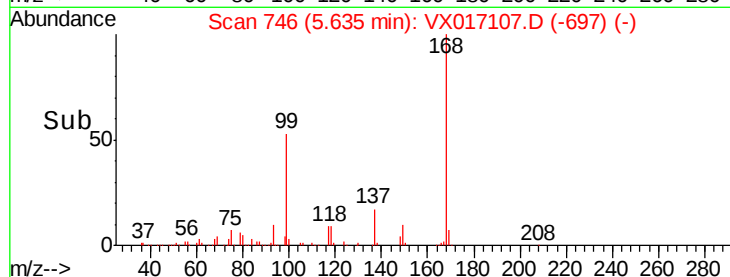
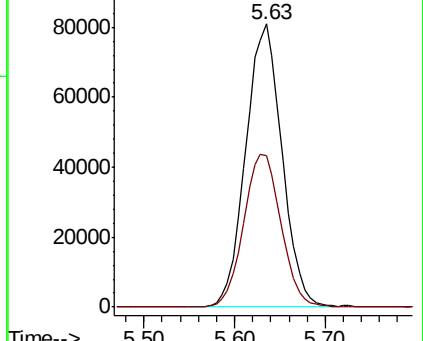
168 100

99 53.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.447 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017107.D

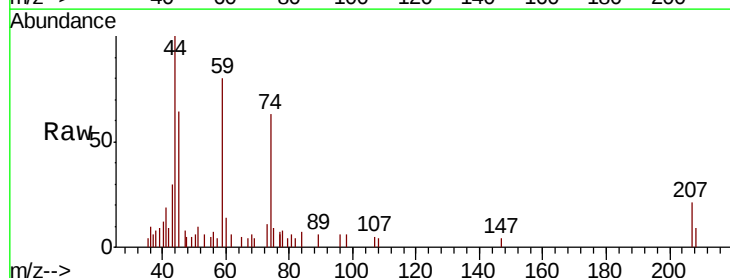
Acq: 01 Jul 2020 18:40

Tgt Ion: 74 Resp: 1322

Ion Ratio Lower Upper

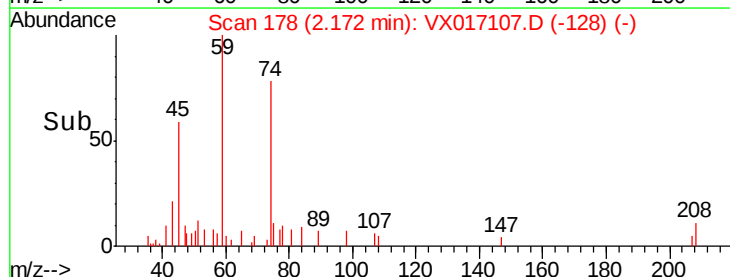
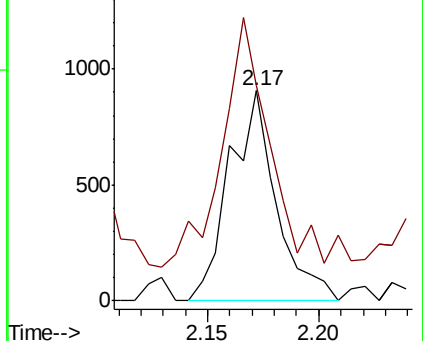
74 100

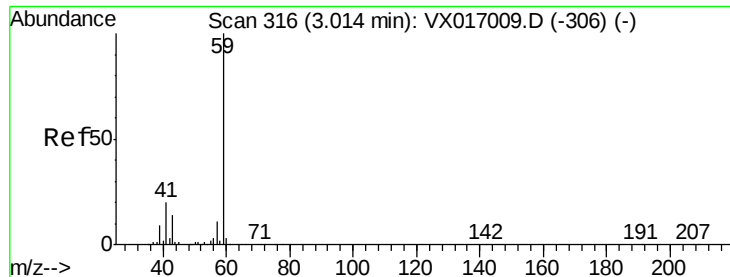
45 126.1 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

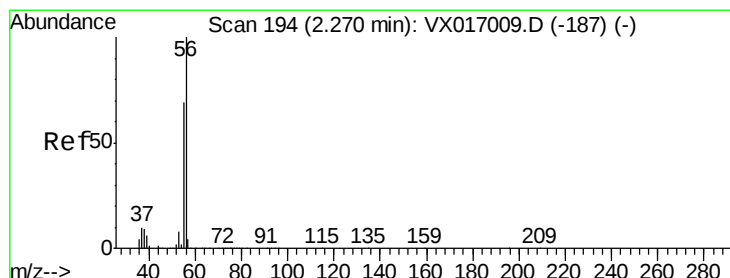
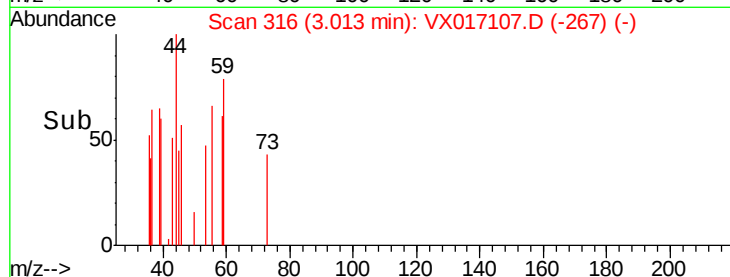
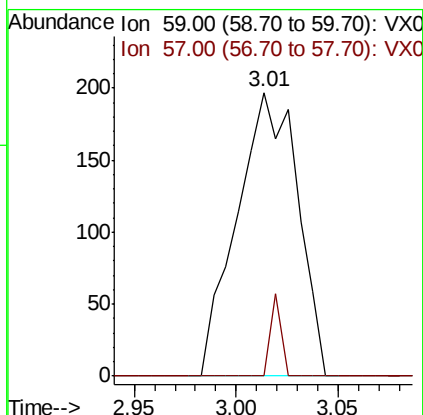
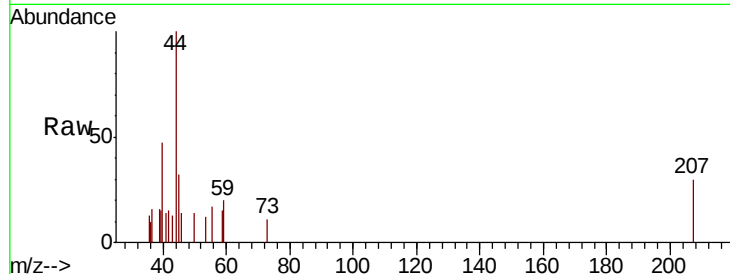




#11
Tert butyl alcohol
Concen: 0.773 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

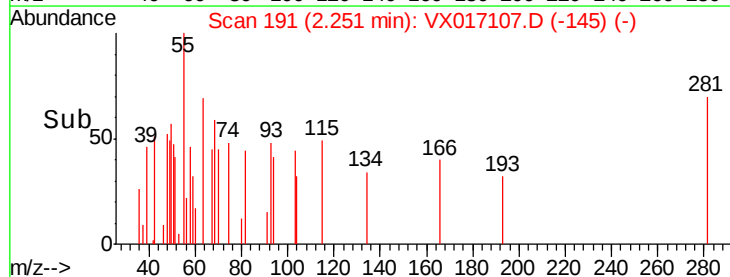
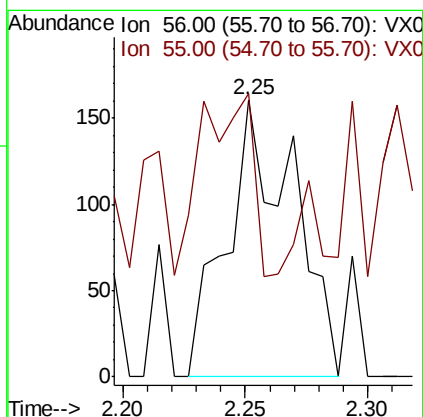
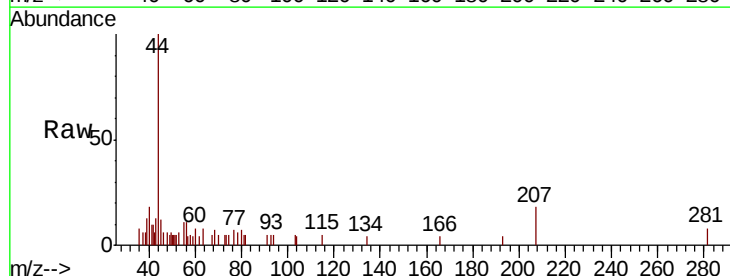
Instrument :
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BP-MW180-SOIL-594-598

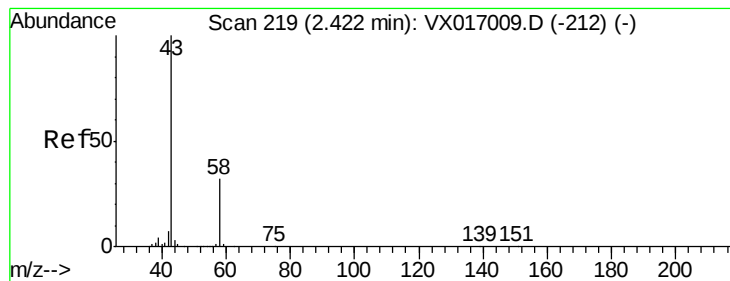
Tot Ion: 59 Resp: 408
Ion Ratio Lower Upper
59 100
57 5.1 8.2 12.2#



#13
Acrolein
Concen: 0.960 ug/l
RT: 2.25 min Scan# 191
Delta R.T. -0.02 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

Tgt Ion: 56 Resp: 303
Ion Ratio Lower Upper
56 100
55 61.7 55.7 83.5





#16

Acetone

Concen: 9.612 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

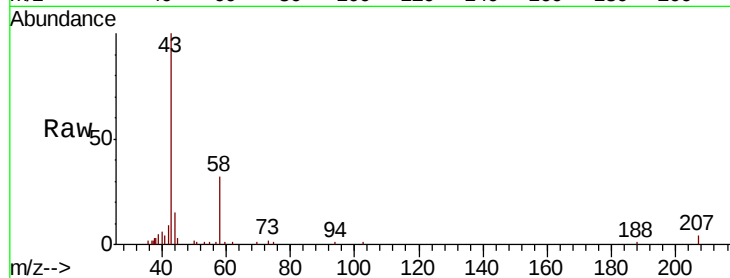
BP-MW180-SOIL-594-598

Tot Ion: 43 Resp: 9950

Ion Ratio Lower Upper

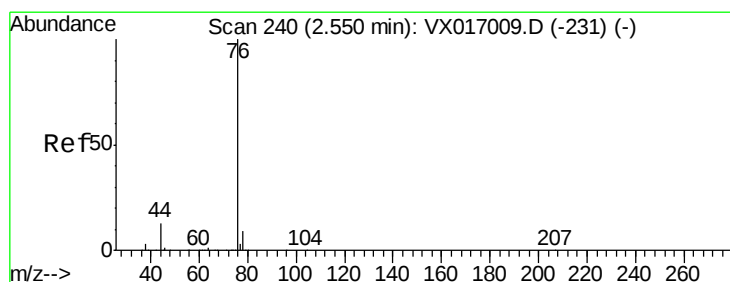
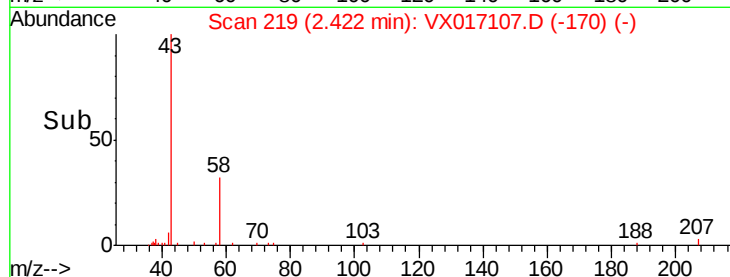
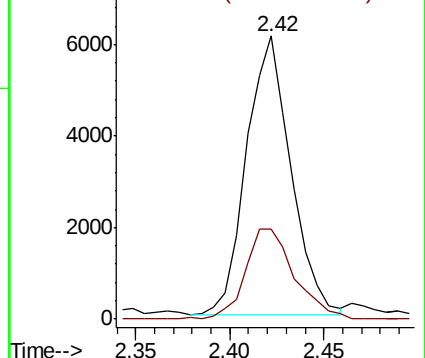
43 100

58 31.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.367 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017107.D

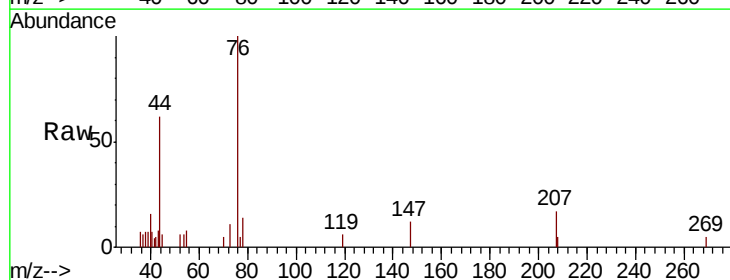
Acq: 01 Jul 2020 18:40

Tgt Ion: 76 Resp: 2133

Ion Ratio Lower Upper

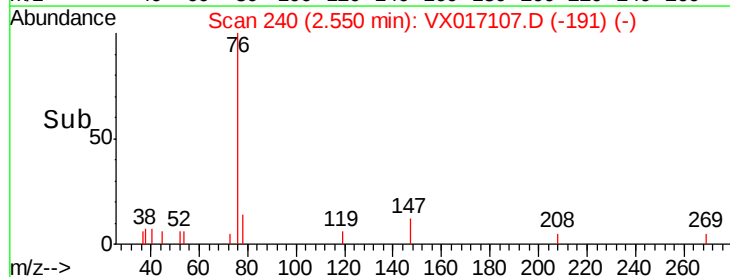
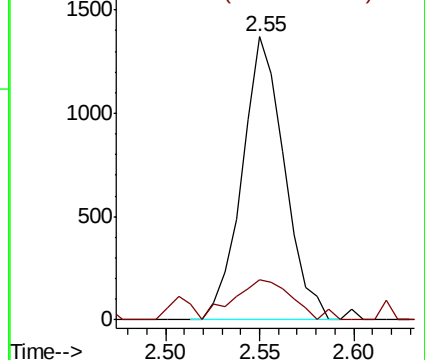
76 100

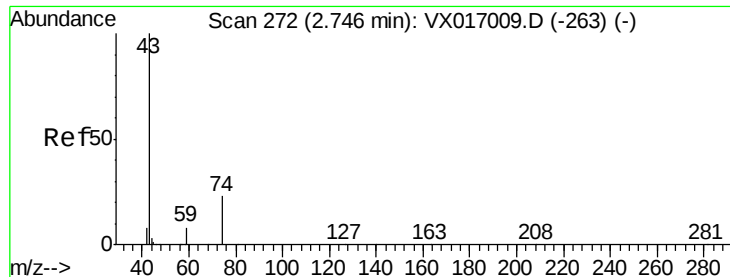
78 14.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

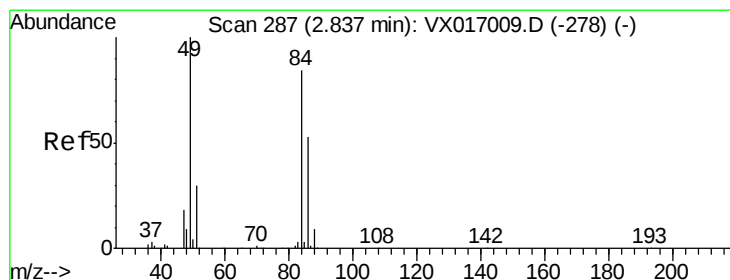
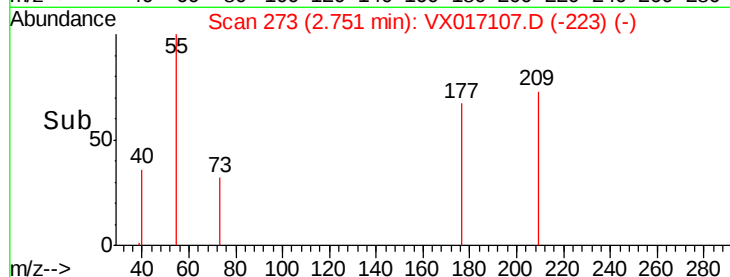
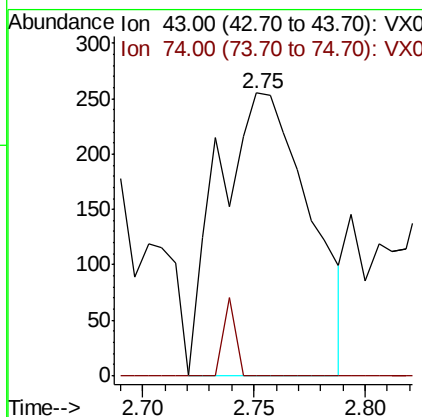
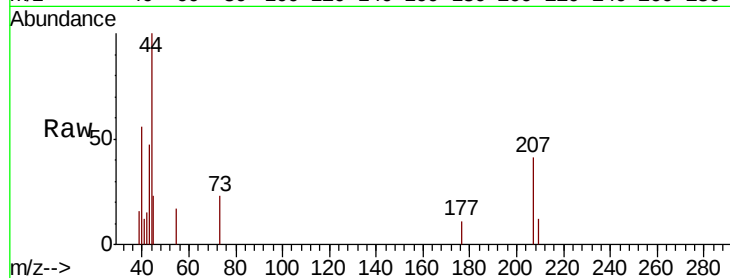




#18
Methyl Acetate
Concen: 0.268 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

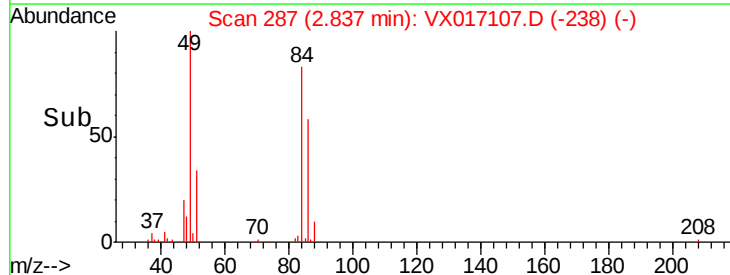
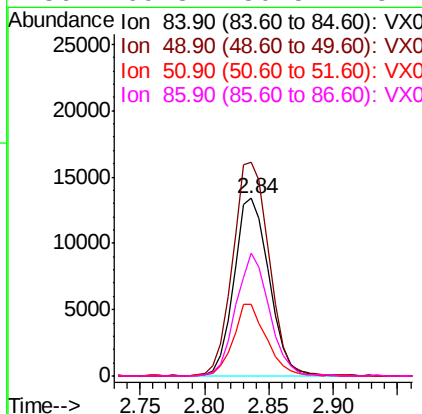
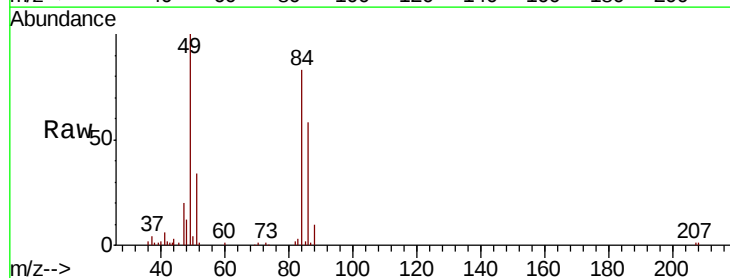
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-594-598

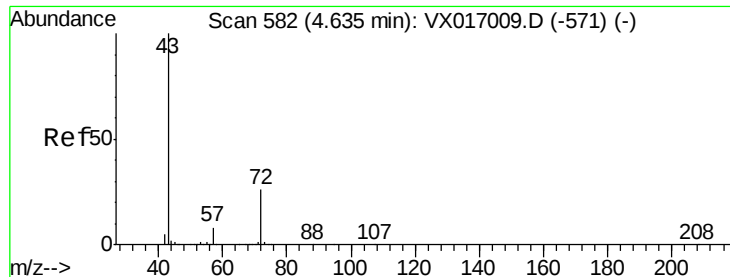
Tot Ion: 43 Resp: 725
Ion Ratio Lower Upper
43 100
74 3.6 19.3 28.9#



#20
Methylene Chloride
Concen: 10.051 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

Tgt Ion: 84 Resp: 25347
Ion Ratio Lower Upper
84 100
49 120.2 94.7 142.1
51 40.4 28.6 42.8
86 69.3 50.5 75.7





#25

2-Butanone

Concen: 1.706 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

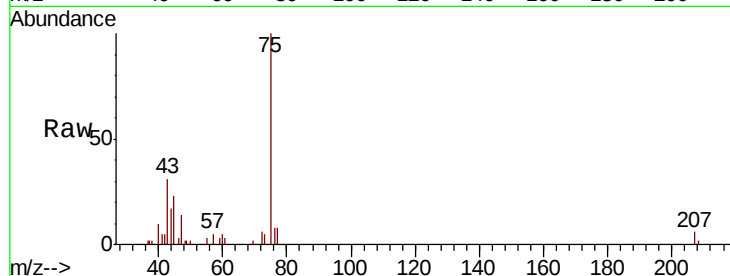
BP-MW180-SOIL-594-598

Tot Ion: 43 Resp: 2943

Ion Ratio Lower Upper

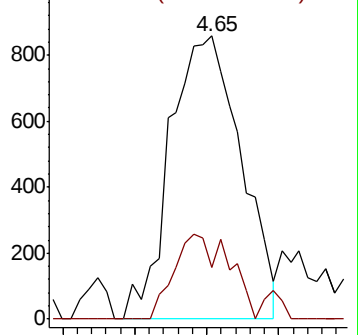
43 100

72 18.4 20.8 31.2#

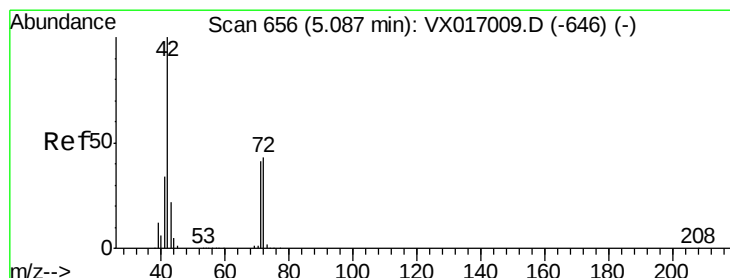
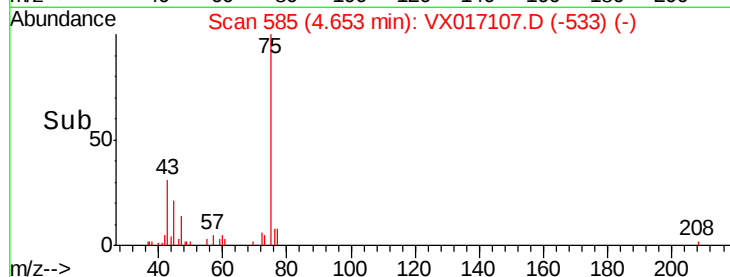


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time--> 4.55 4.60 4.65 4.70



#29

Tetrahydrofuran

Concen: 1.212 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

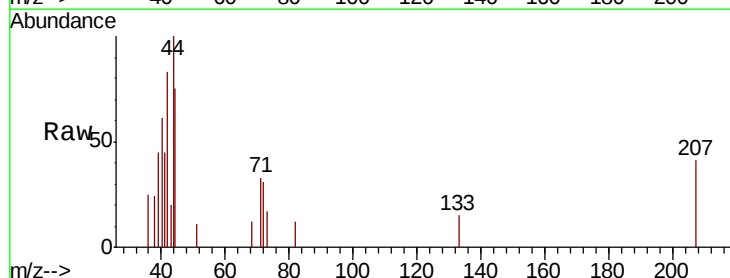
Tgt Ion: 42 Resp: 1381

Ion Ratio Lower Upper

42 100

72 30.1 35.3 52.9#

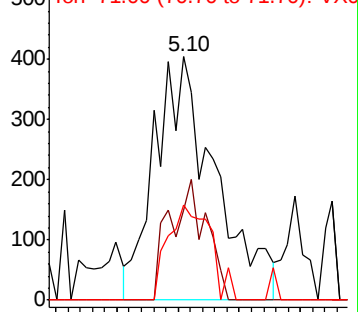
71 27.6 33.1 49.7#



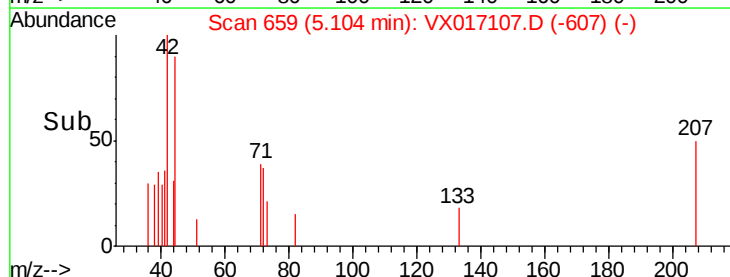
Abundance Ion 42.00 (41.70 to 42.70): VX0

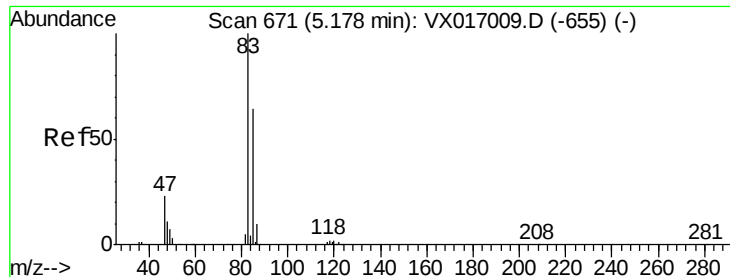
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time--> 5.00 5.05 5.10 5.15 5.20

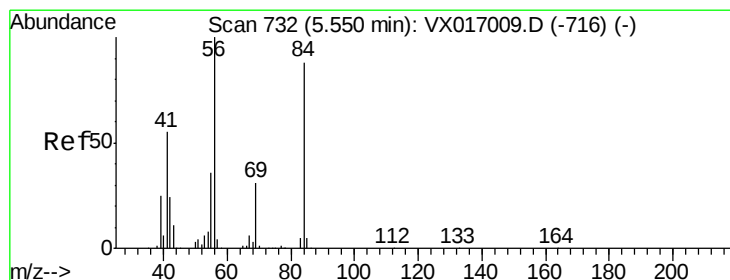
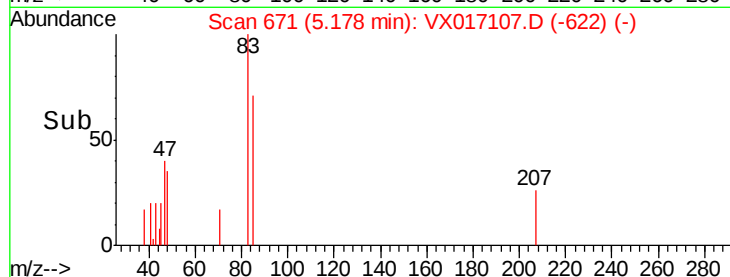
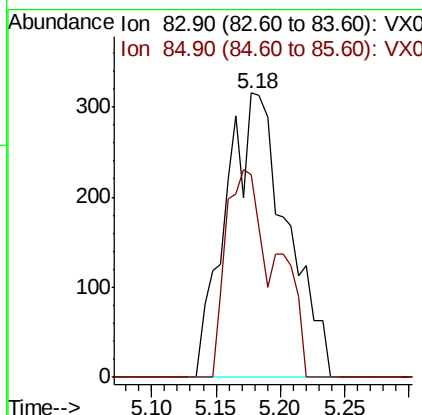
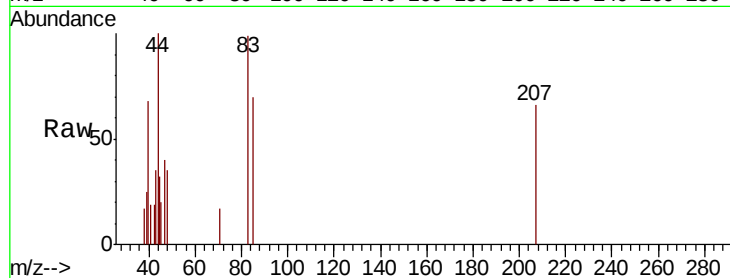




#30
Chloroform
Concen: 0.234 ug/l
RT: 5.18 min Scan# 671
Delta R.T. -0.00 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

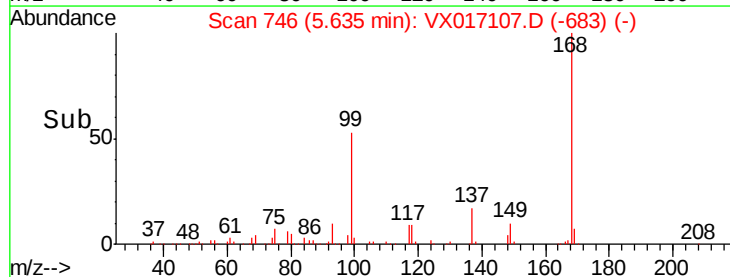
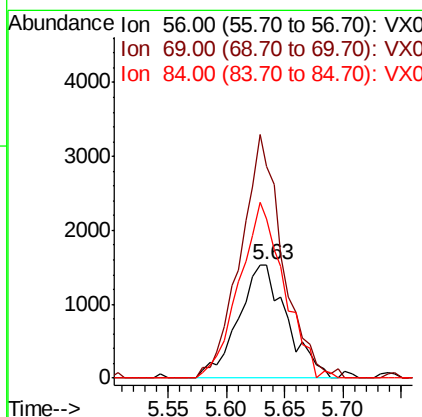
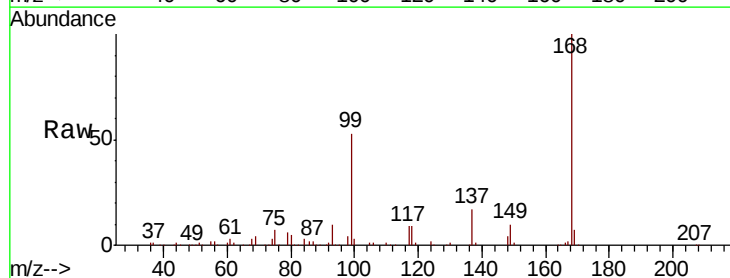
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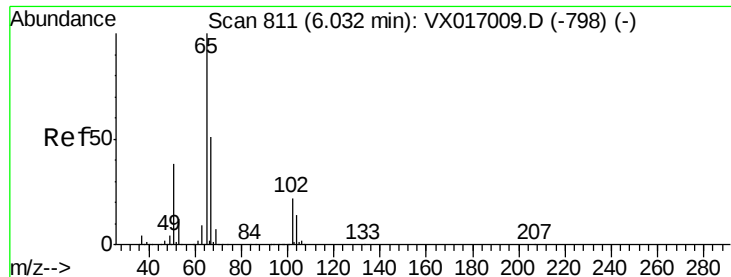
Tot Ion: 83 Resp: 1038
Ion Ratio Lower Upper
83 100
85 71.2 51.4 77.2



#31
Cyclohexane
Concen: 1.191 ug/l
RT: 5.63 min Scan# 746
Delta R.T. 0.08 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

Tgt Ion: 56 Resp: 4449
Ion Ratio Lower Upper
56 100
69 187.1 25.0 37.4#
84 140.4 69.1 103.7#

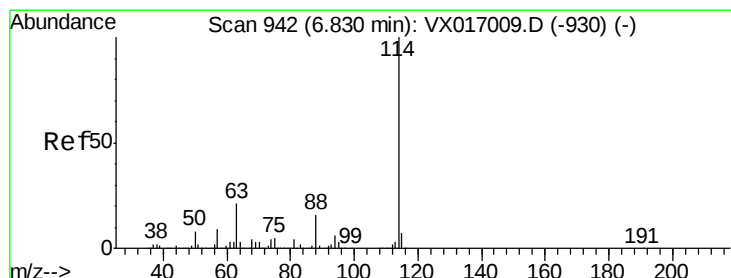
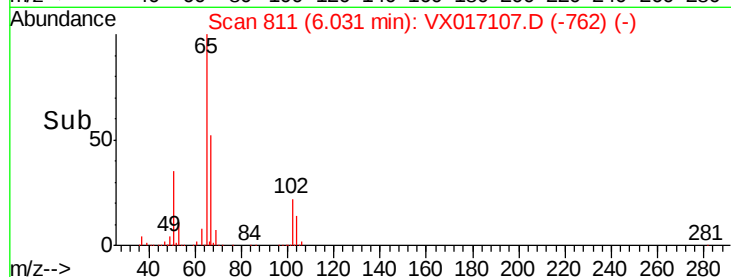
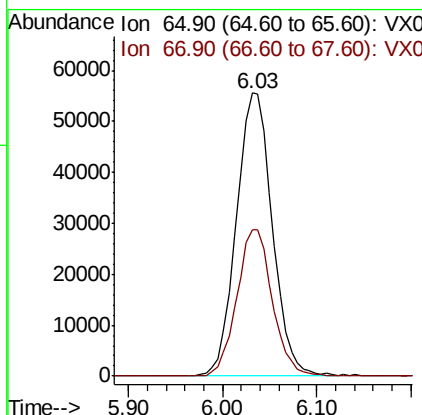
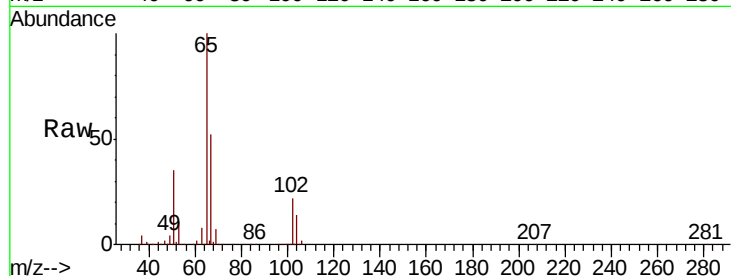




#33
 1,2-Dichloroethane-d4
 Concen: 53.563 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

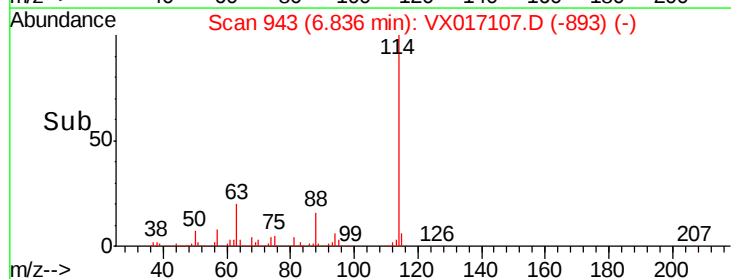
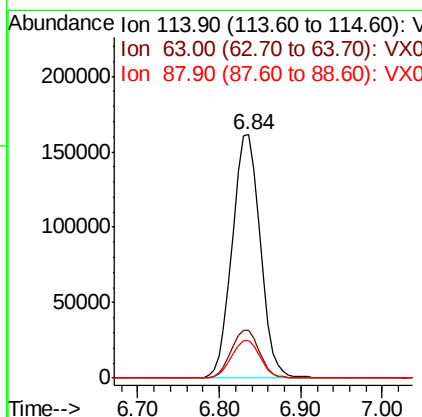
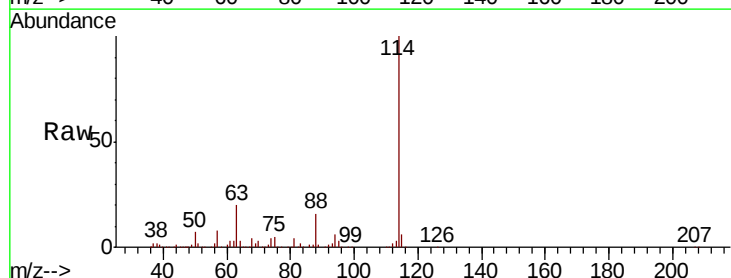
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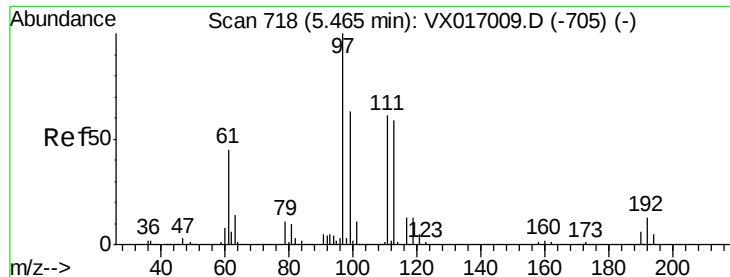
Tot Ion: 65 Resp: 148219
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

Tgt Ion: 114 Resp: 384257
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.6 0.0 32.4

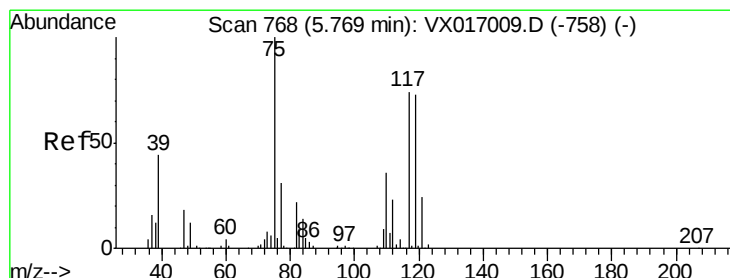
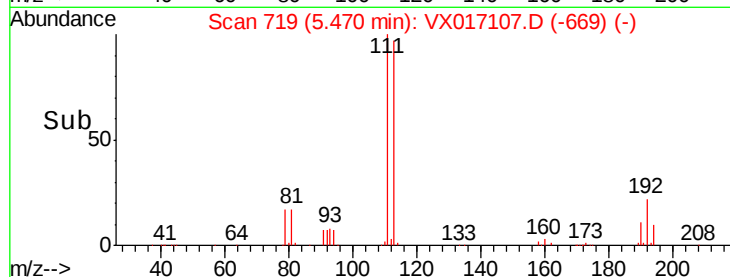
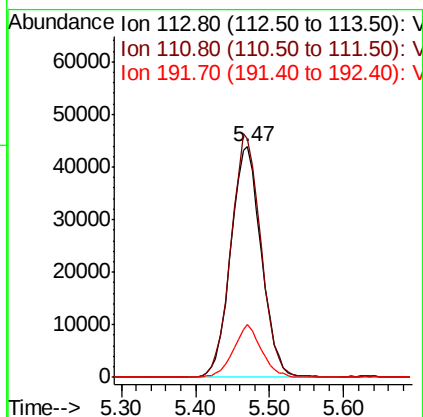
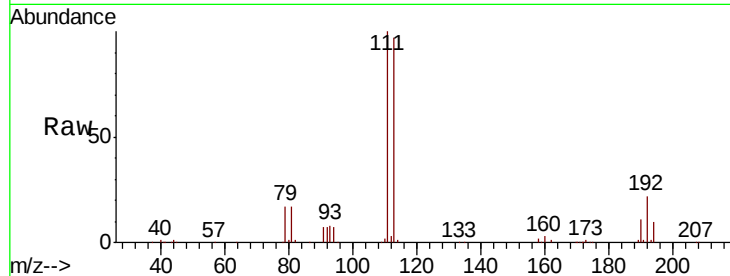




#35
 Dibromofluoromethane
 Concen: 51.921 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

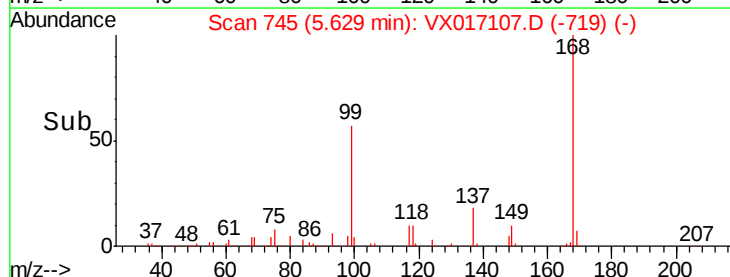
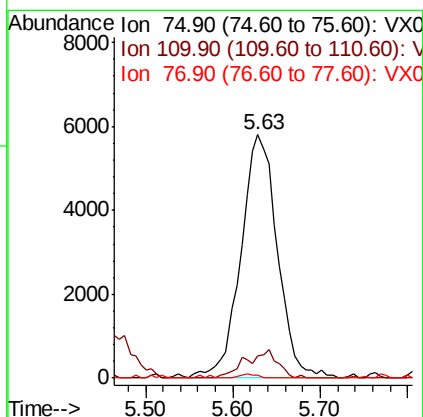
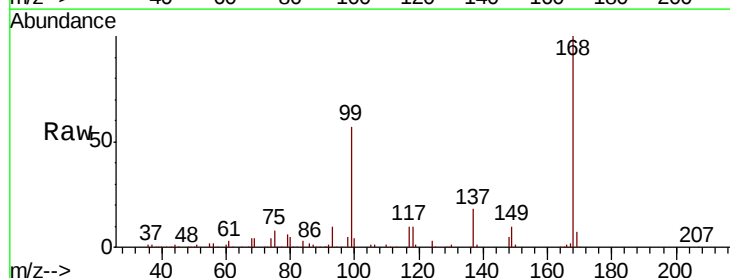
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-594-598

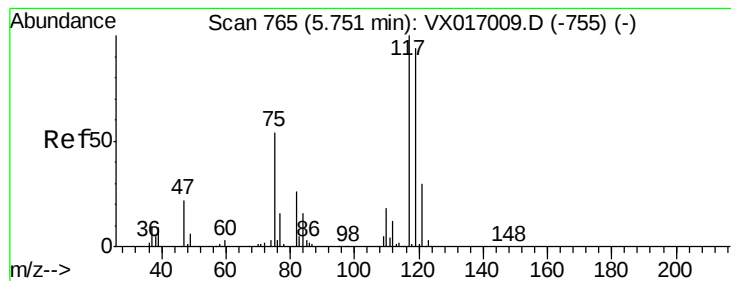
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.9	122.9
192	21.0	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.635 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.1	54.1#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.413 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-594-598

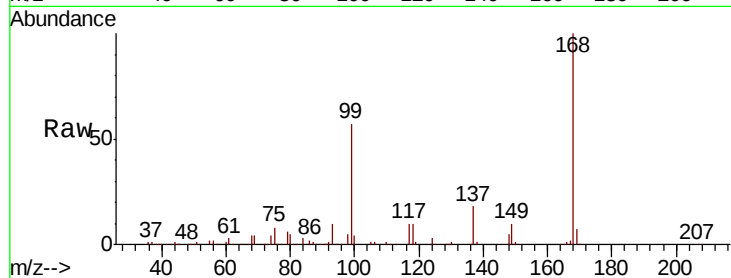
Tot Ion:117 Resp: 21654

Ion Ratio Lower Upper

117 100

119 7.6 75.4 113.0#

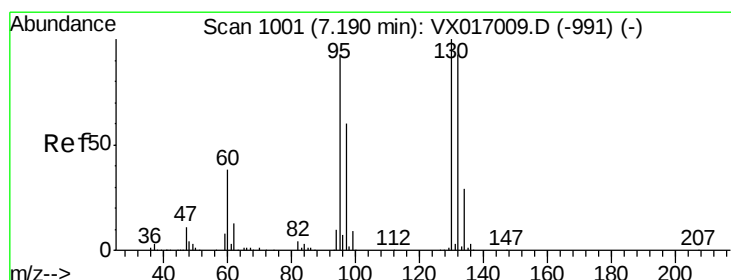
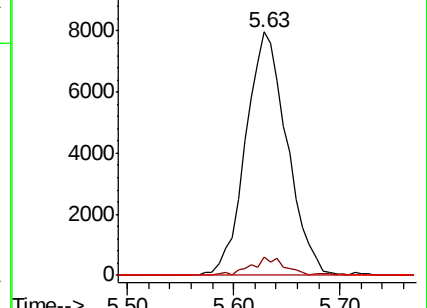
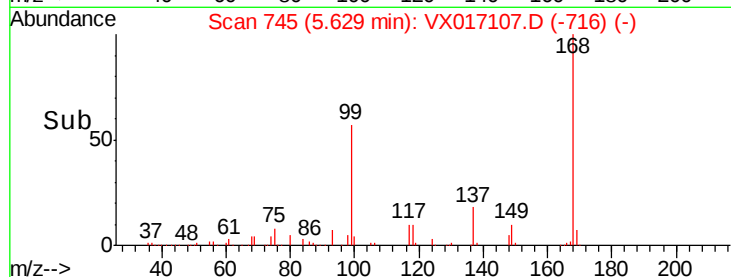
121 0.0 23.8 35.6#



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017107.D

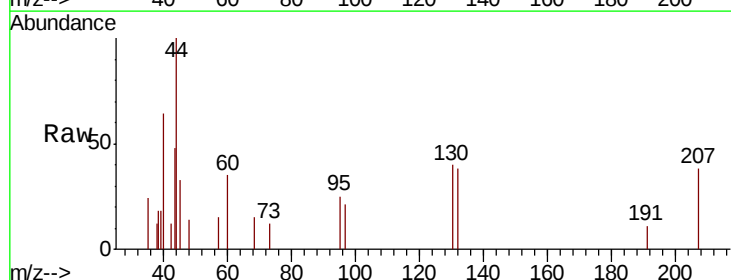
Acq: 01 Jul 2020 18:40

Tgt Ion:130 Resp: 218

Ion Ratio Lower Upper

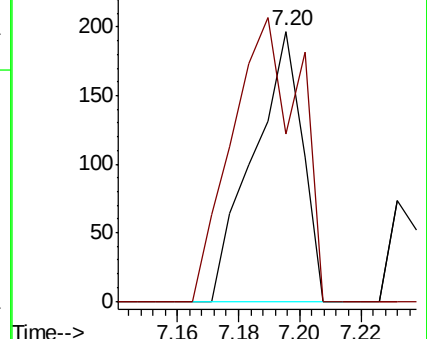
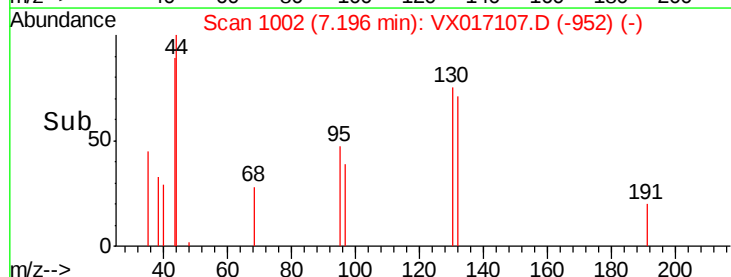
130 100

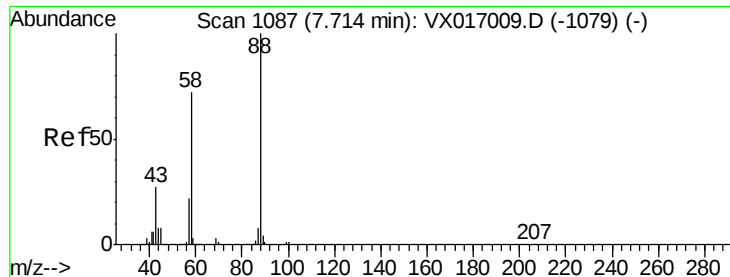
95 61.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

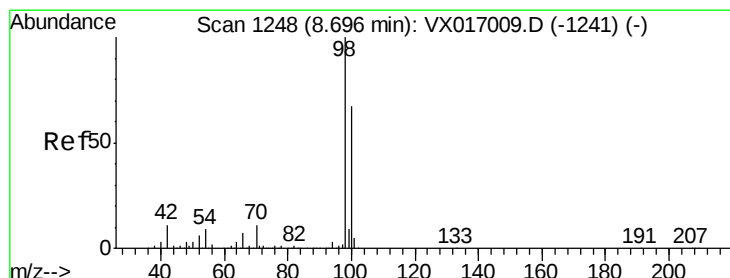
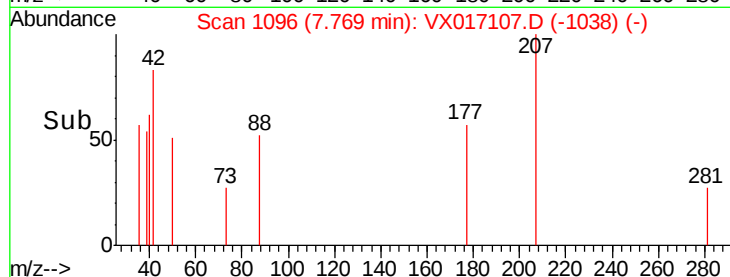
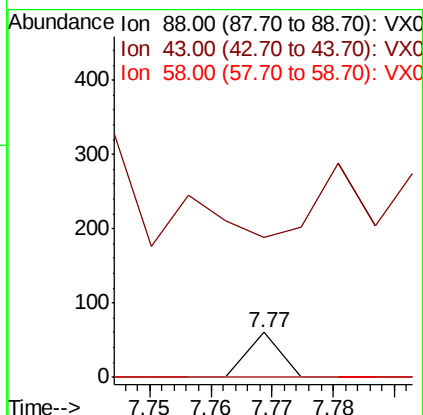
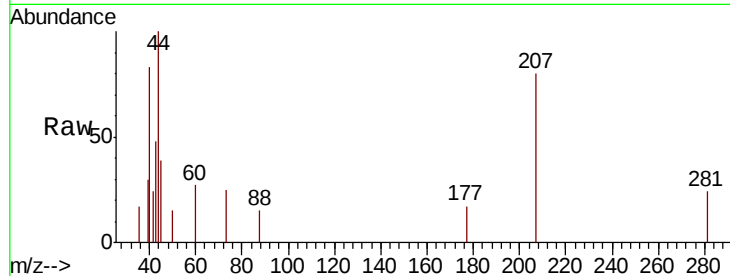




#49
1,4-Dioxane
Concen: 0.334 ug/l
RT: 7.77 min Scan# 1096
Delta R.T. 0.05 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

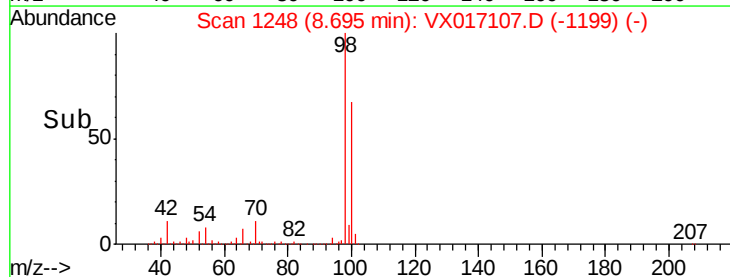
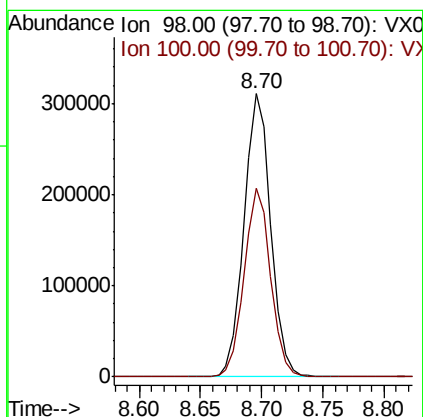
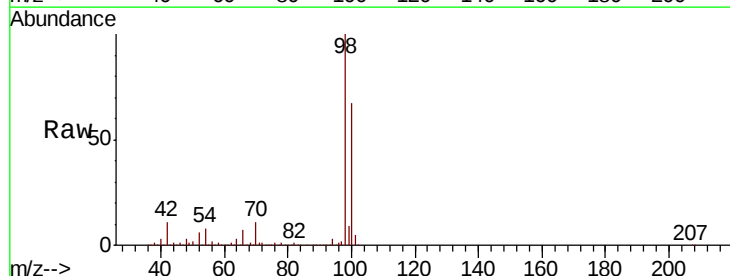
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-594-598

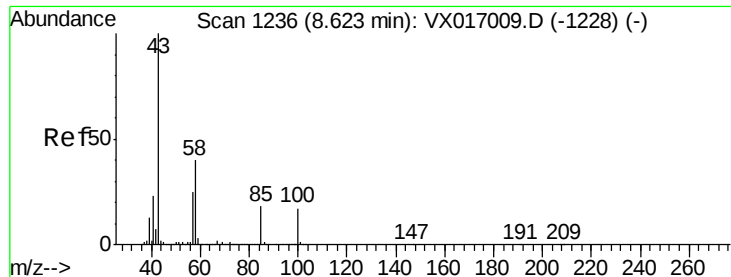
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 590.9 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 52.336 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

Tgt Ion: 98 Resp: 470407
Ion Ratio Lower Upper
98 100
100 66.3 53.8 80.6

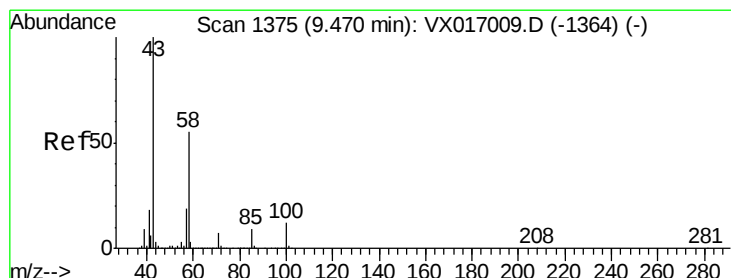
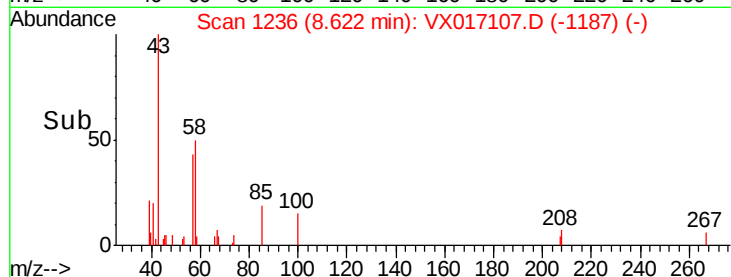
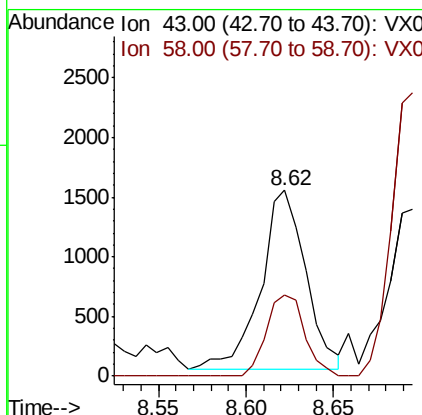
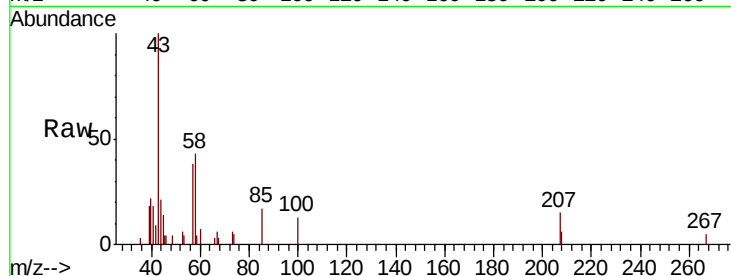




#51
4-Methyl-2-Pentanone
Concen: 0.733 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

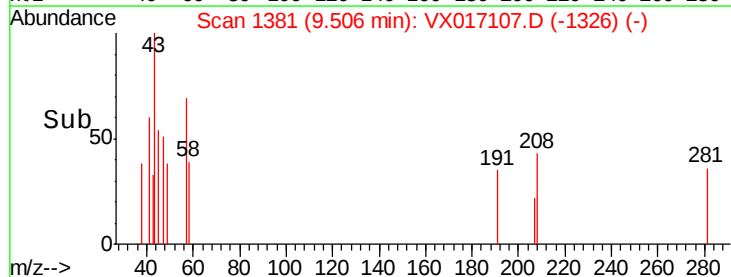
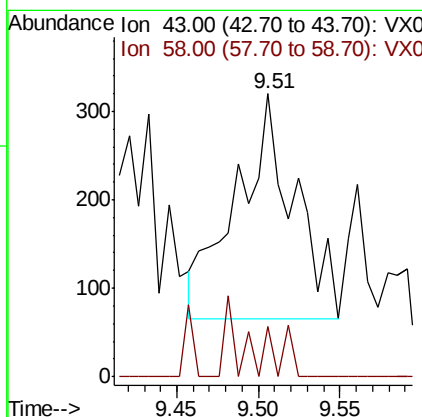
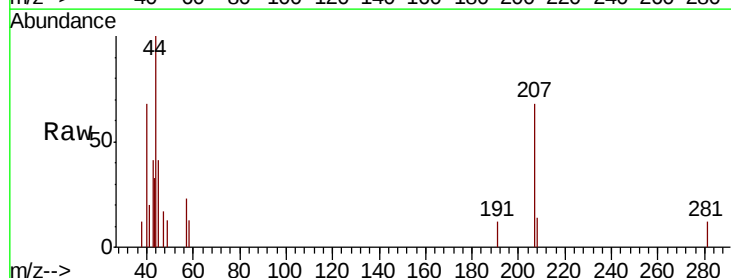
Instrument :
MSVOA_X
ClientSampleId :
BP-MW180-SOIL-594-598

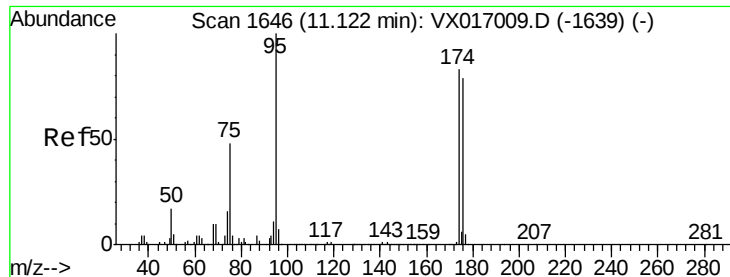
Tot Ion: 43 Resp: 2677
Ion Ratio Lower Upper
43 100
58 38.5 31.9 47.9



#59
2-Hexanone
Concen: 0.238 ug/l
RT: 9.51 min Scan# 1381
Delta R.T. 0.04 min
Lab File: VX017107.D
Acq: 01 Jul 2020 18:40

Tgt Ion: 43 Resp: 634
Ion Ratio Lower Upper
43 100
58 6.6 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 56.063 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-594-598

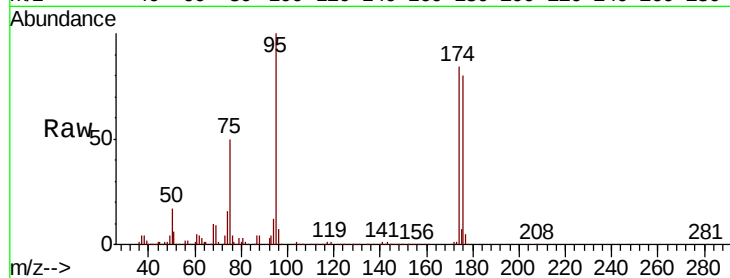
Tot Ion: 95 Resp: 196984

Ion Ratio Lower Upper

95 100

174 84.5 0.0 164.0

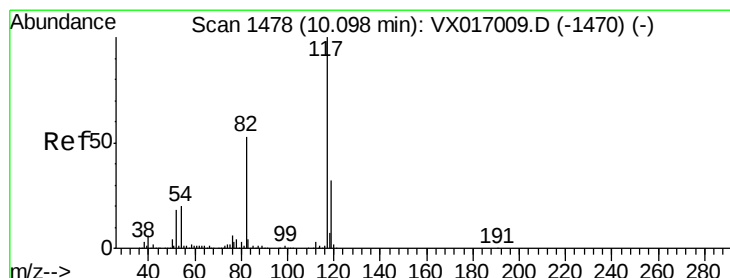
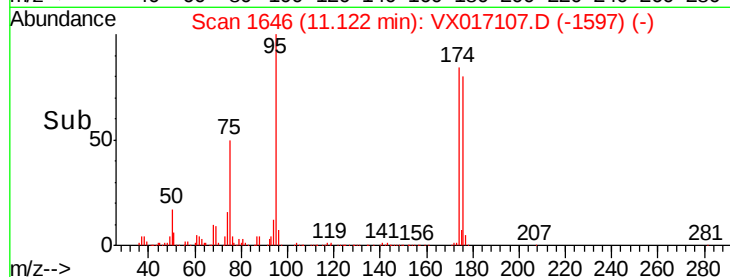
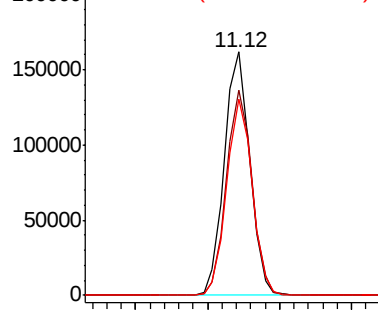
176 80.6 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

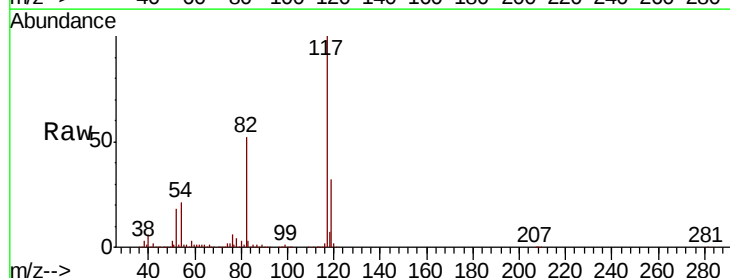
Tgt Ion: 117 Resp: 403505

Ion Ratio Lower Upper

117 100

82 52.0 42.6 63.8

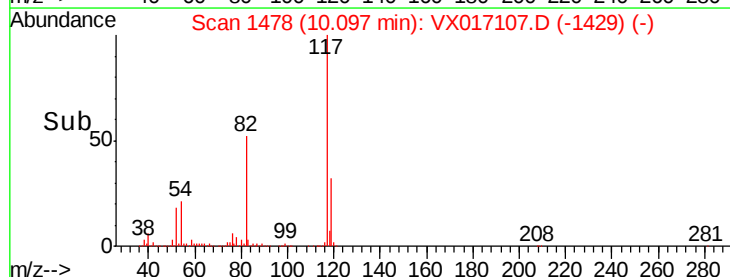
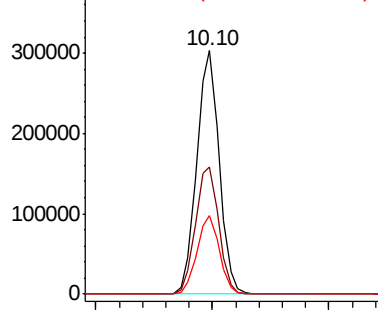
119 32.1 25.4 38.2

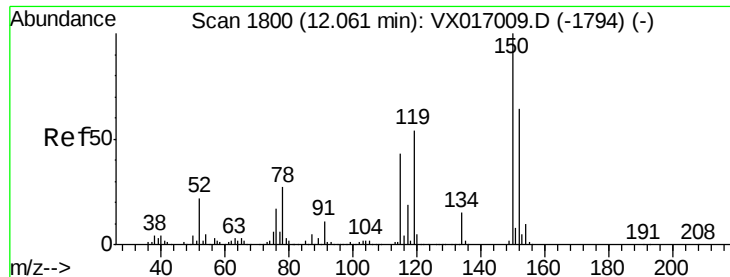


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017107.D

Acq: 01 Jul 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-MW180-SOIL-594-598

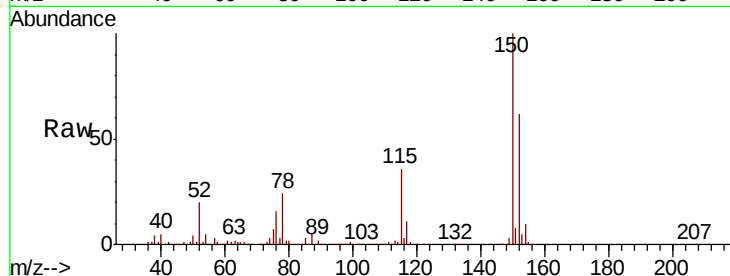
Tot Ion:152 Resp: 204409

Ion Ratio Lower Upper

152 100

115 57.4 40.9 122.7

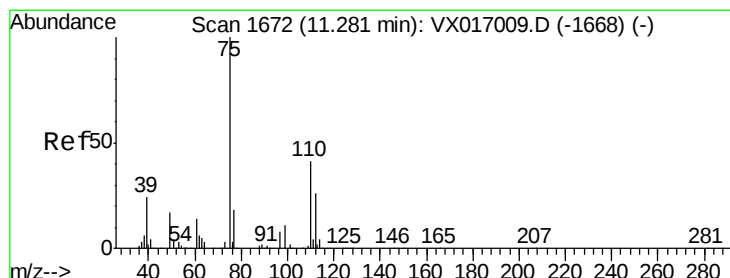
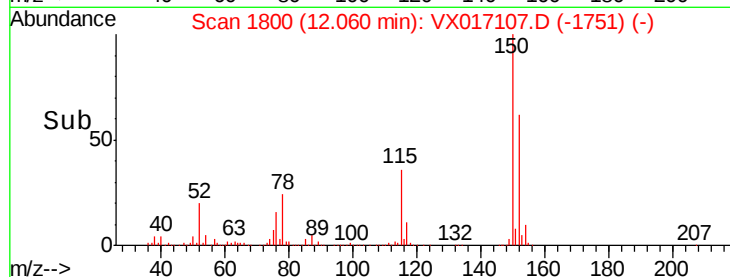
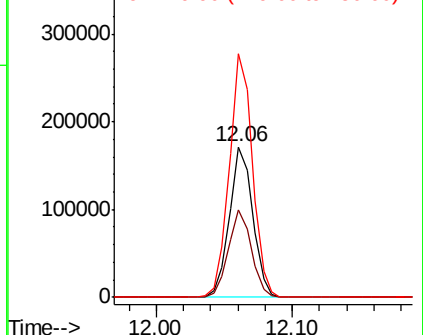
150 160.1 0.0 351.6



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: 24.928 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017107.D

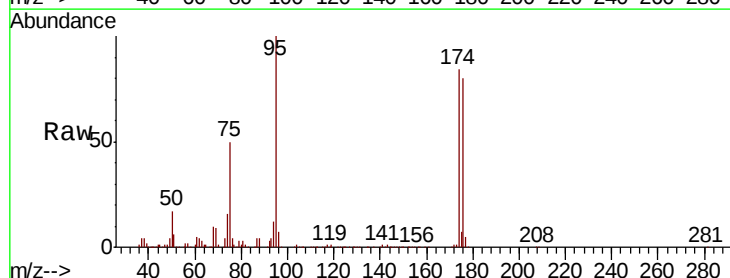
Acq: 01 Jul 2020 18:40

Tgt Ion: 75 Resp: 100200

Ion Ratio Lower Upper

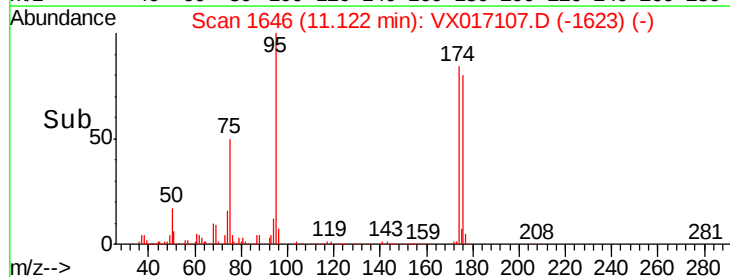
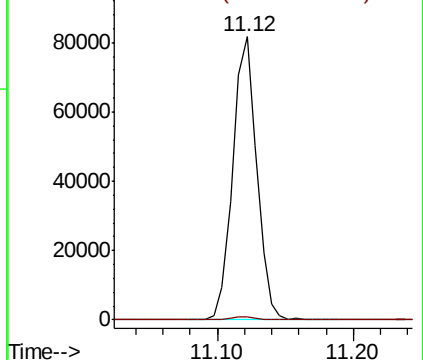
75 100

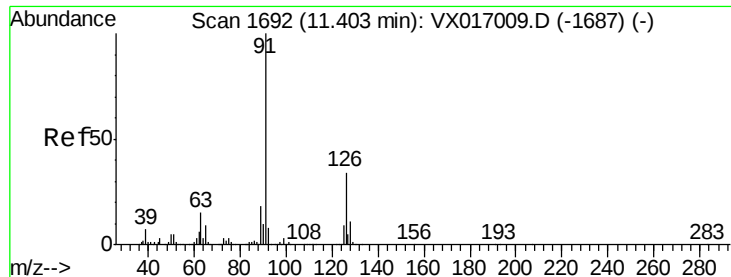
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

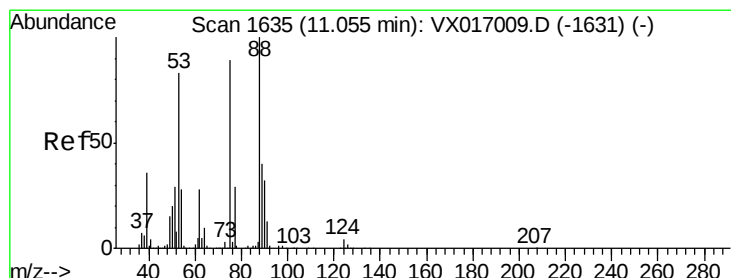
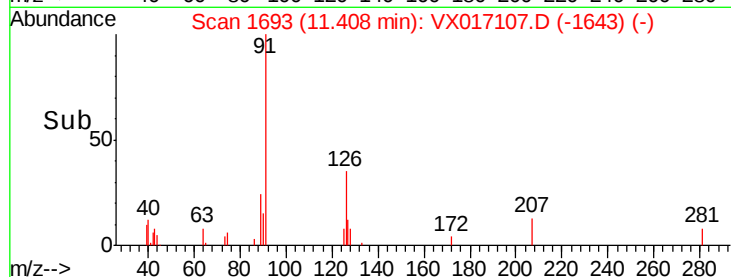
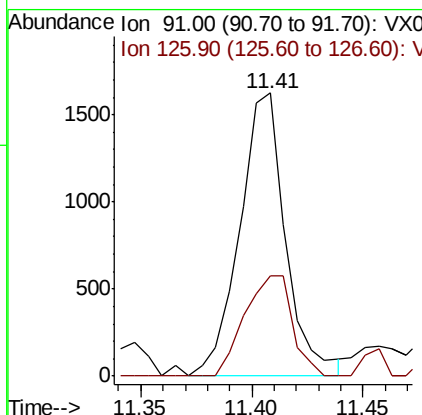
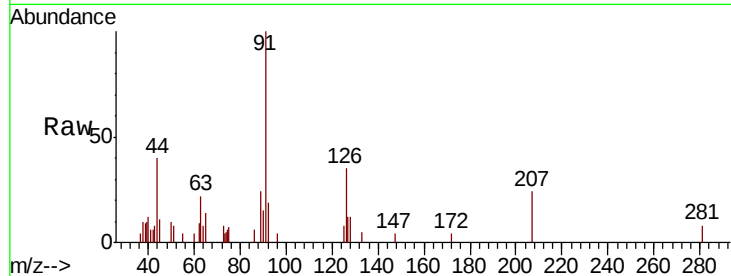




#79
 2-Chlorotoluene
 Concen: 0.256 ug/l
 RT: 11.41 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

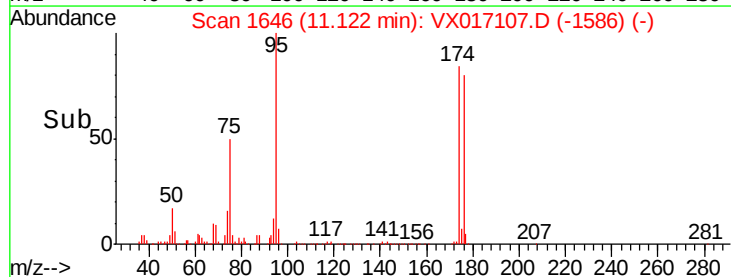
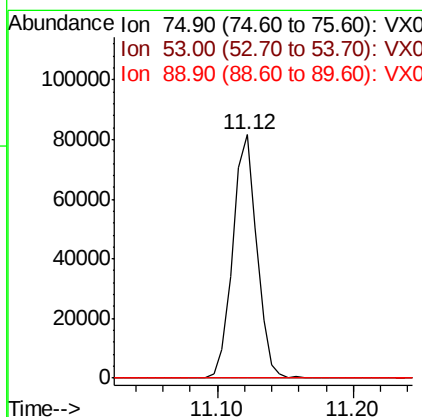
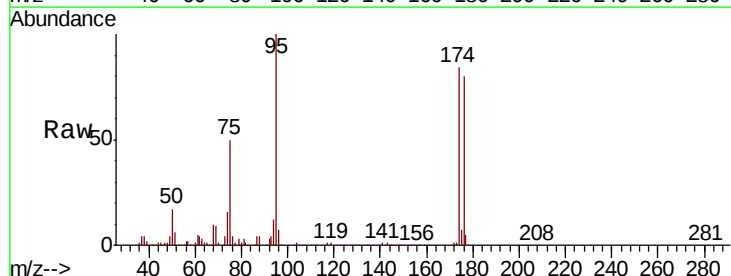
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-594-598

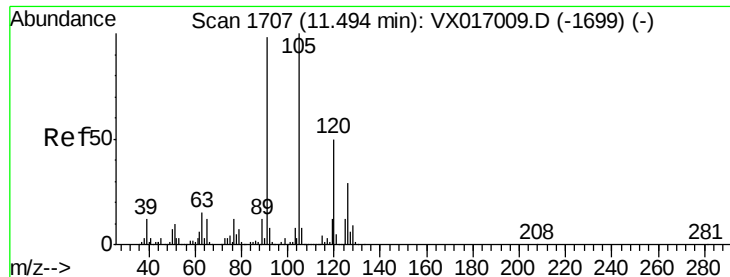
Tot Ion: 91 Resp: 2343
 Ion Ratio Lower Upper
 91 100
 126 36.6 17.4 52.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.554 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

Tgt Ion: 75 Resp: 100200
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.4 108.6#
 89 0.0 37.0 55.4#





#82
 4-Chlorotoluene
 Concen: 0.207 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX017107.D
 Acq: 01 Jul 2020 18:40

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-MW180-SOIL-594-598

Tot Ion: 91 Resp: 2272
 Ion Ratio Lower Upper
 91 100
 126 33.5 15.2 45.5

