

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121720\
 Data File : VX020069.D
 Acq On : 16 Dec 2020 16:44
 Operator : JC/MD
 Sample : L5050-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Dec 17 00:31:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	305165	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	500364	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	458764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	193770	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	192646	48.03	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.06%	
35) Dibromofluoromethane		5.46	113	154670	47.83	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.66%	
50) Toluene-d8		8.70	98	609583	49.38	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.76%	
62) 4-Bromofluorobenzene		11.12	95	208613	44.40	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.80%	

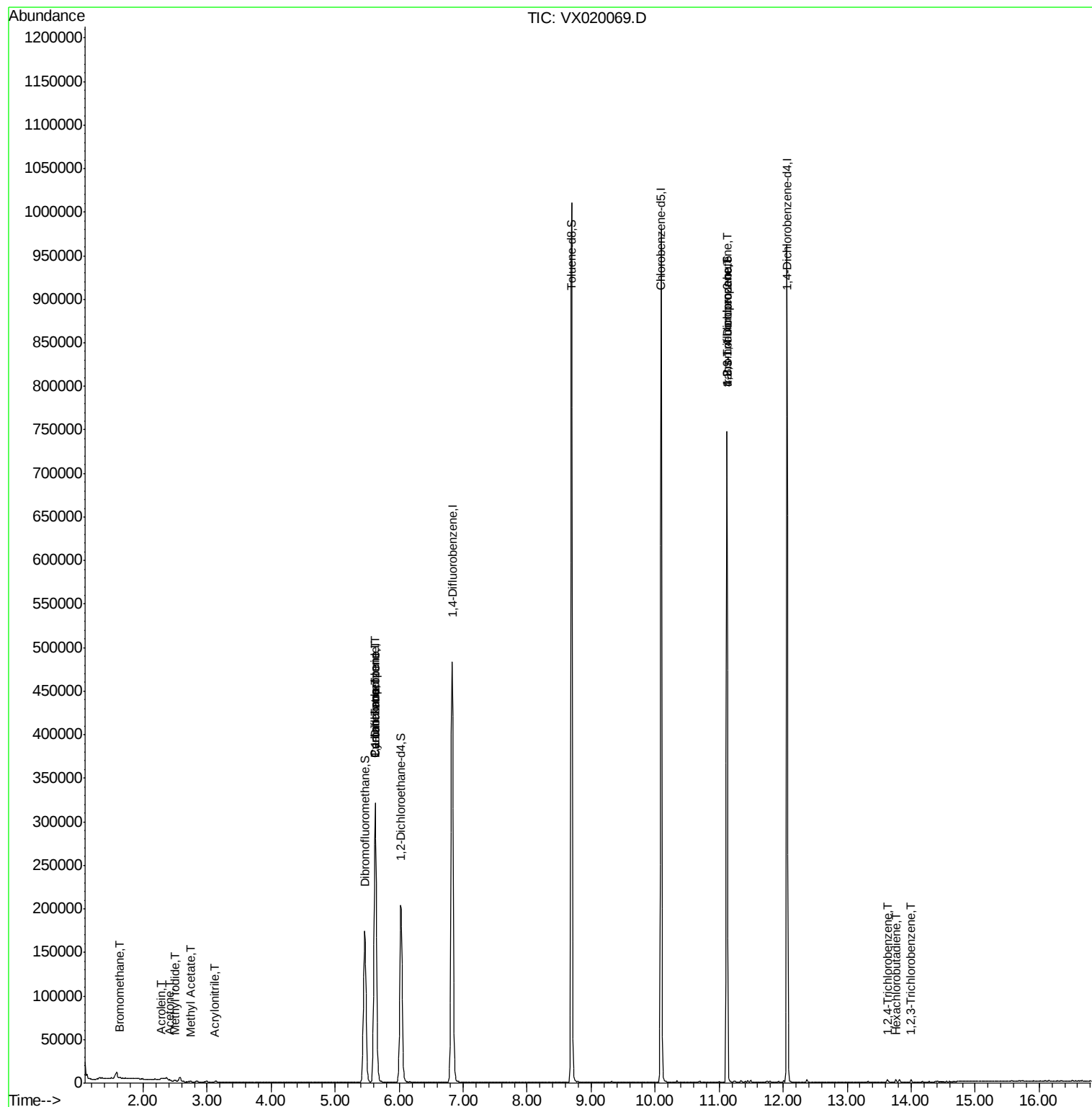
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	714	0.621	ug/l	97
10) Methyl Iodide	2.50	142	1833	0.450	ug/l	98
11) Tert butyl alcohol	2.99	59	667	Below Cal	#	73
13) Acrolein	2.28	56	217	0.490	ug/l #	75
15) Acrylonitrile	3.11	53	524	0.289	ug/l	98
16) Acetone	2.42	43	1142	0.758	ug/l	94
18) Methyl Acetate	2.75	43	826	0.224	ug/l #	83
20) Methylene Chloride	2.82	84	564	Below Cal		89
31) Cyclohexane	5.62	56	5939	1.190	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23037	5.095	ug/l #	48
38) Carbon Tetrachloride	5.63	117	29496	6.662	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	101789	23.422	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	101789	67.708	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	849	0.215	ug/l	94
94) Hexachlorobutadiene	13.77	225	415	0.235	ug/l	90
96) 1,2,3-Trichlorobenzene	14.00	180	799	0.207	ug/l	93

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

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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: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

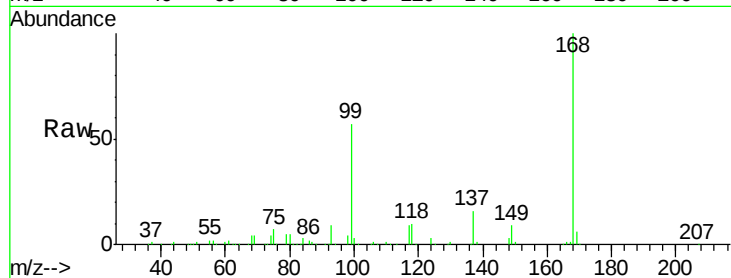
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:168 Resp: 305165

Ion Ratio Lower Upper

168 100

99 56.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

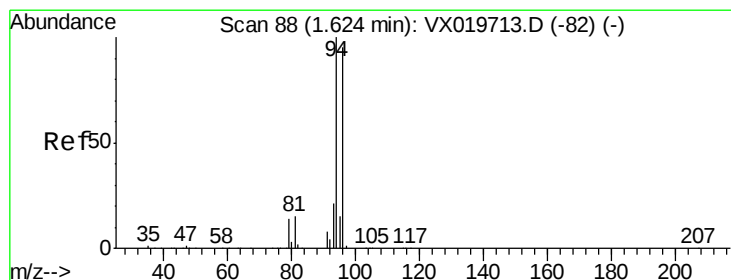
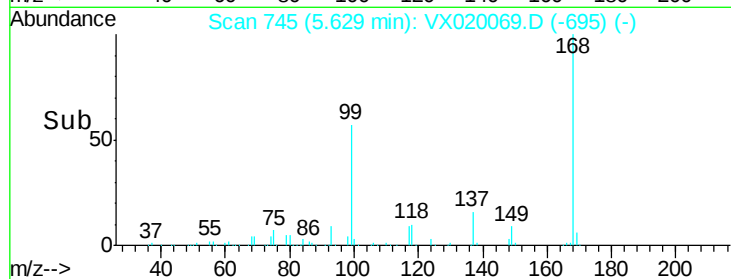
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.621 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020069.D

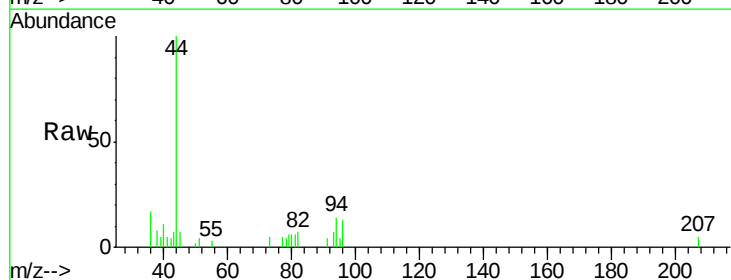
Acq: 16 Dec 2020 16:44

Tgt Ion: 94 Resp: 714

Ion Ratio Lower Upper

94 100

96 92.6 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

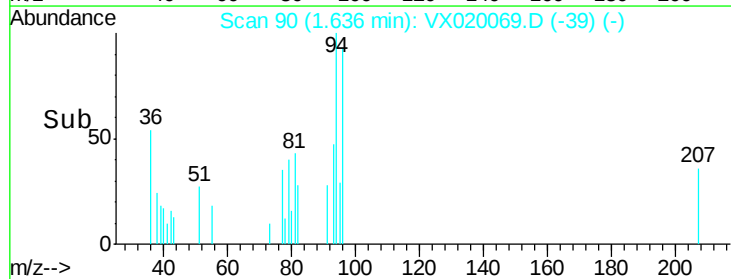
300

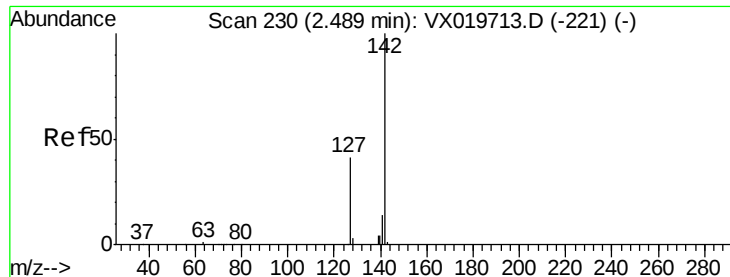
200

100

0

Time-->

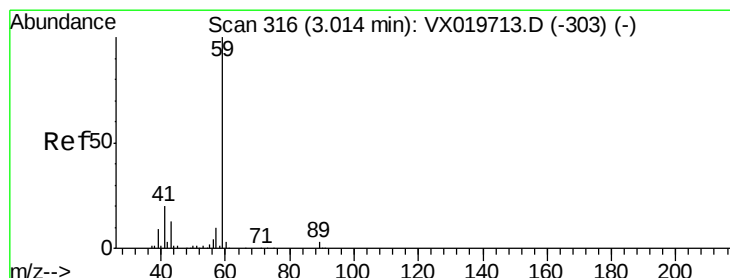
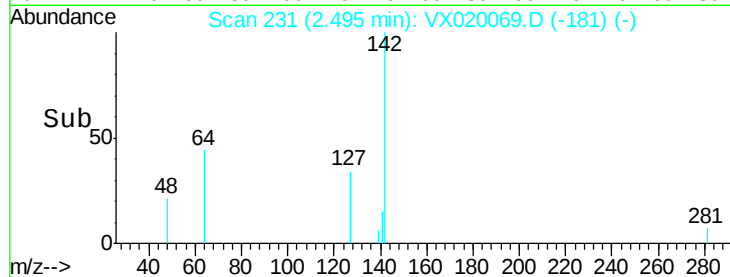
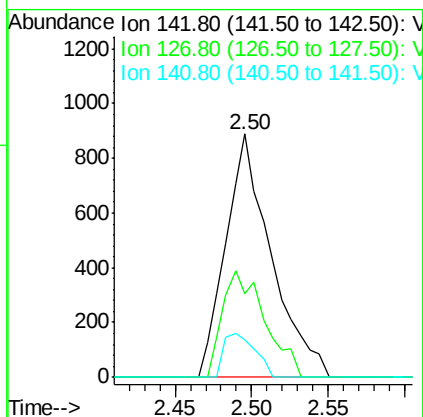
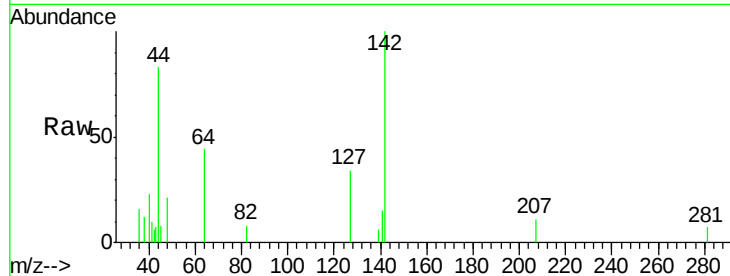




#10
Methyl Iodide
Concen: 0.450 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

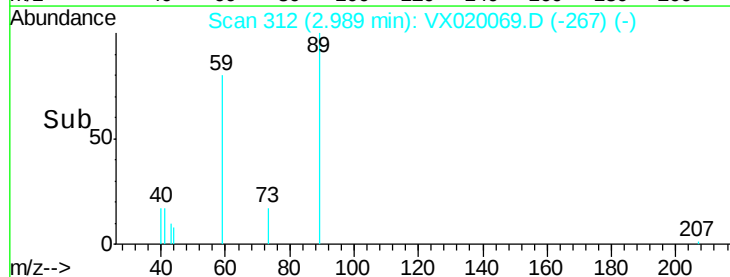
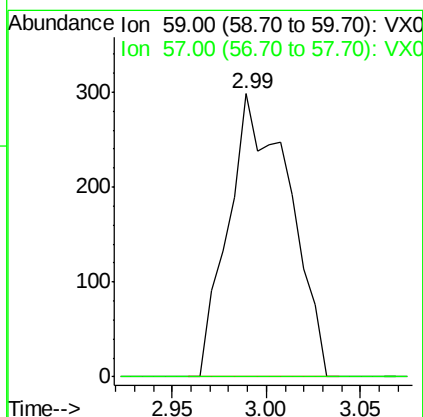
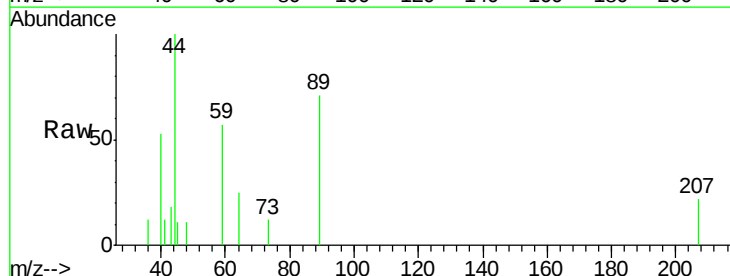
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

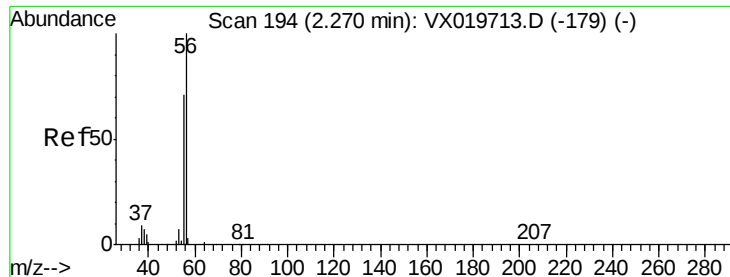
Tgt Ion: 142 Resp: 1833
Ion Ratio Lower Upper
142 100
127 40.8 33.3 49.9
141 12.3 11.4 17.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

Tgt Ion: 59 Resp: 667
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#13

Acrolein

Concen: 0.490 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

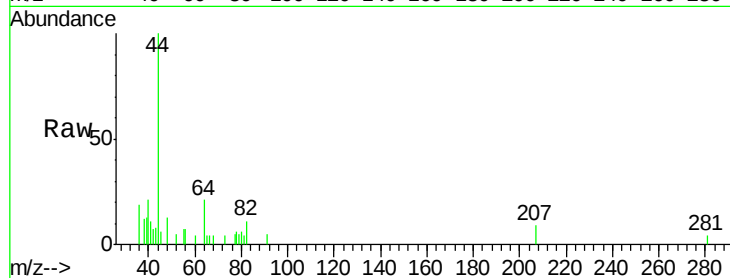
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

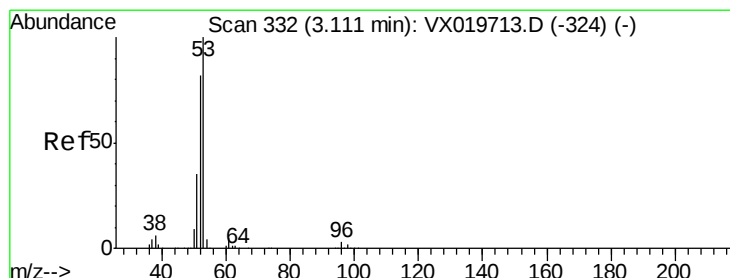
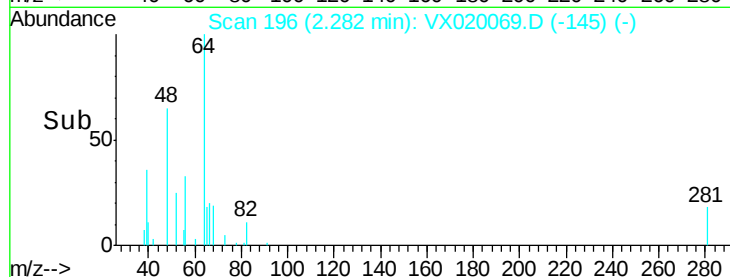
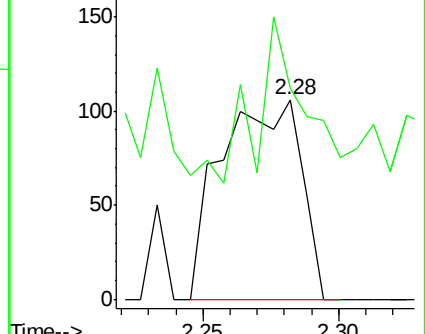
56 100

55 49.8 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.289 ug/l

RT: 3.11 min Scan# 332

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

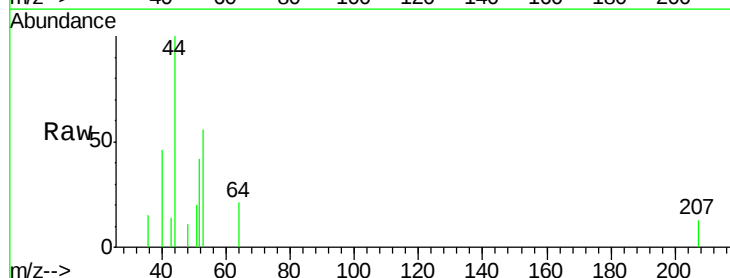
Tgt Ion: 53 Resp: 524

Ion Ratio Lower Upper

53 100

52 84.5 65.3 97.9

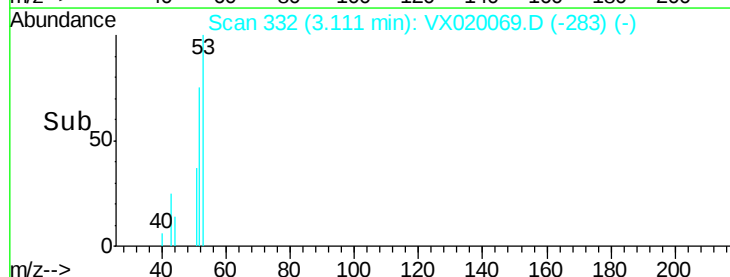
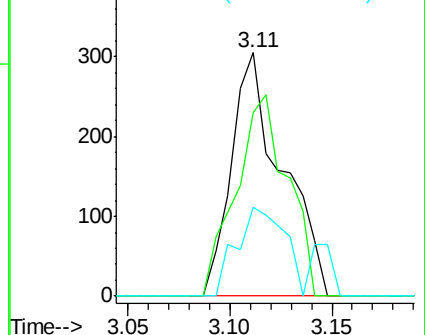
51 34.9 28.2 42.2

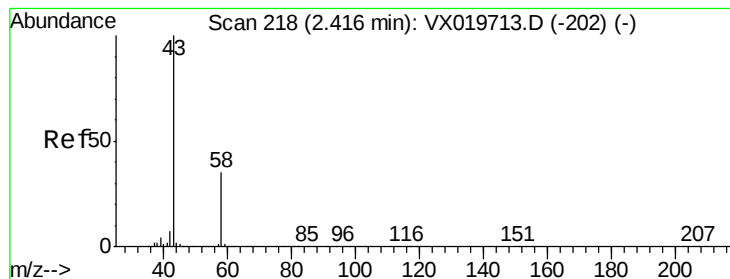


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.758 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

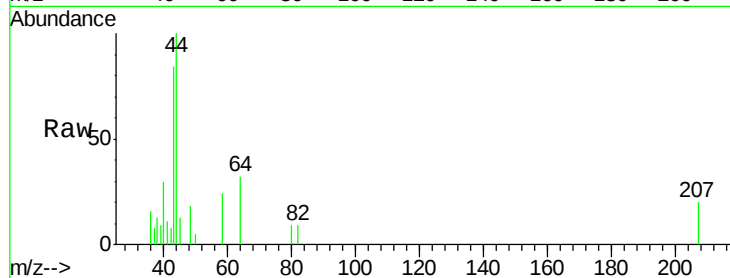
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

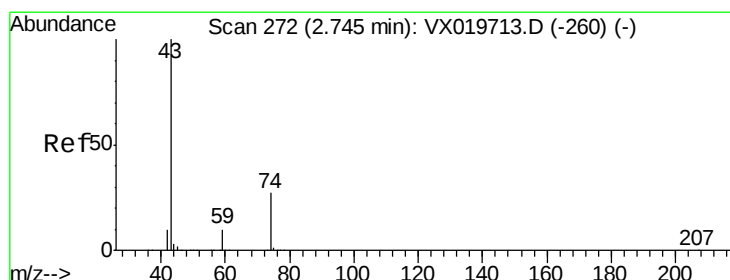
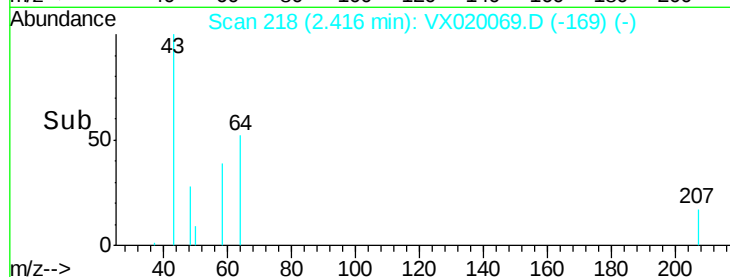
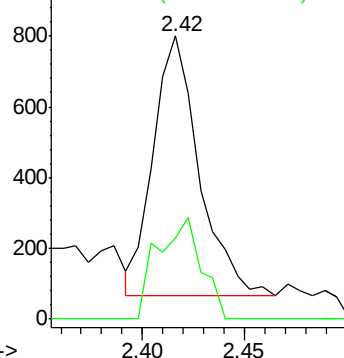
43 100

58 31.5 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX020069.D

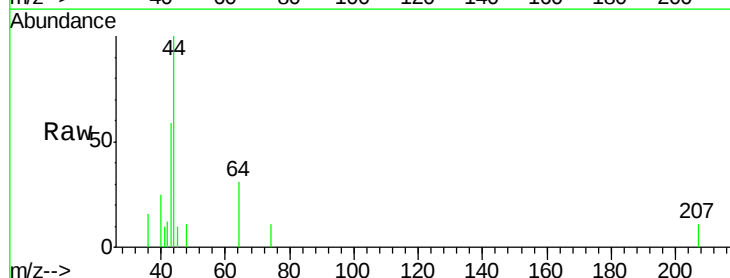
Acq: 16 Dec 2020 16:44

Tgt Ion: 43 Resp: 826

Ion Ratio Lower Upper

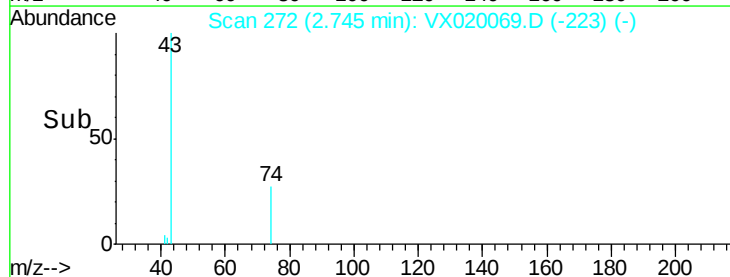
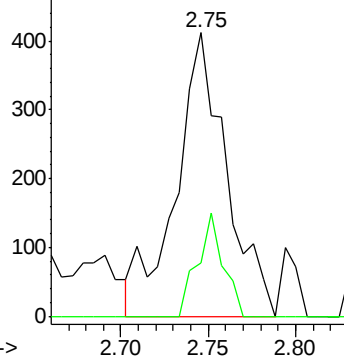
43 100

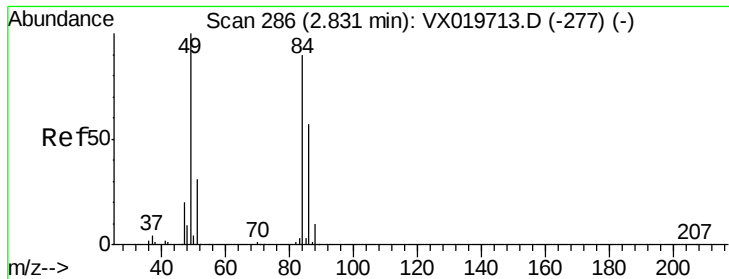
74 18.5 21.9 32.9#



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: 2.82 min Scan# 285

Delta R.T. -0.01 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 84 Resp: 564

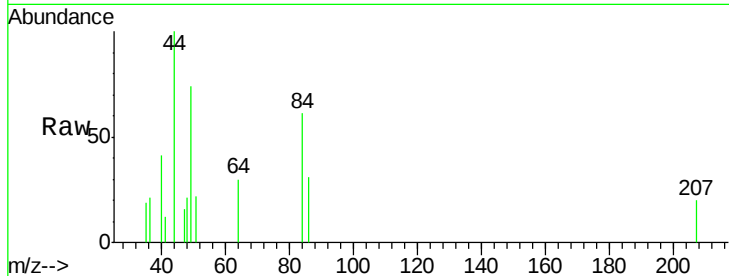
Ion Ratio Lower Upper

84 100

49 121.3 88.6 132.8

51 36.4 27.0 40.6

86 50.5 50.3 75.5

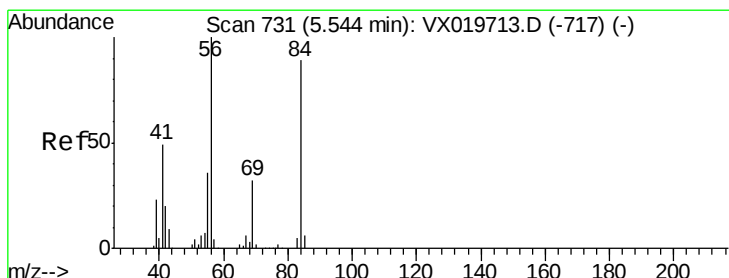
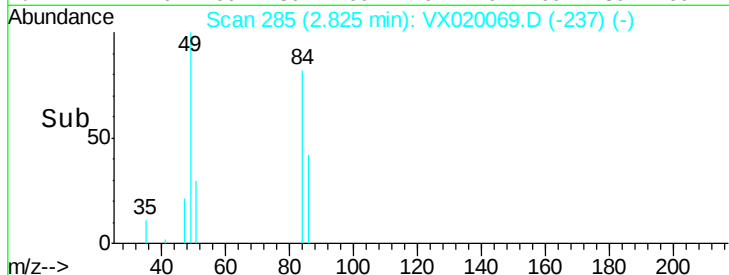
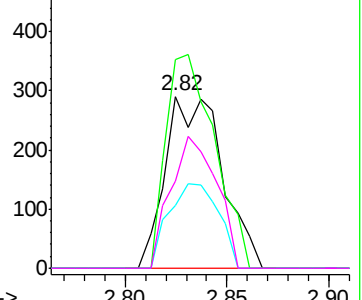


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#31

Cyclohexane

Concen: 1.190 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

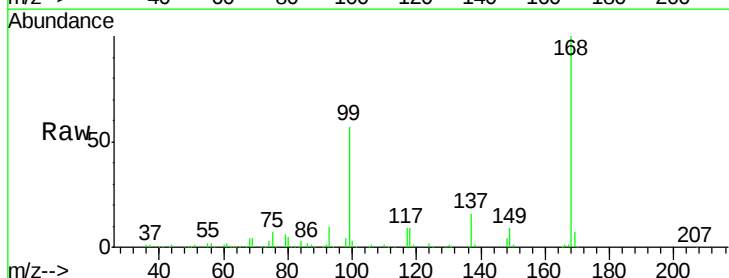
Tgt Ion: 56 Resp: 5939

Ion Ratio Lower Upper

56 100

69 201.3 25.3 37.9#

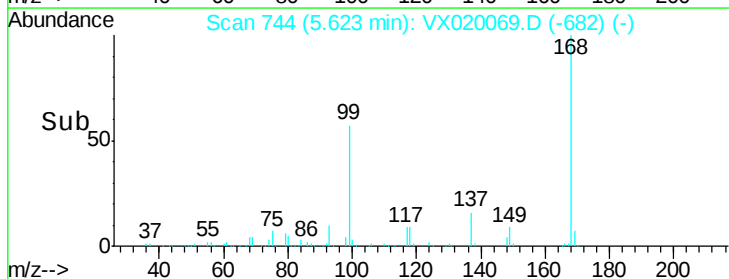
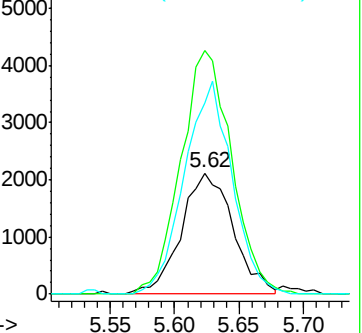
84 157.8 71.4 107.0#

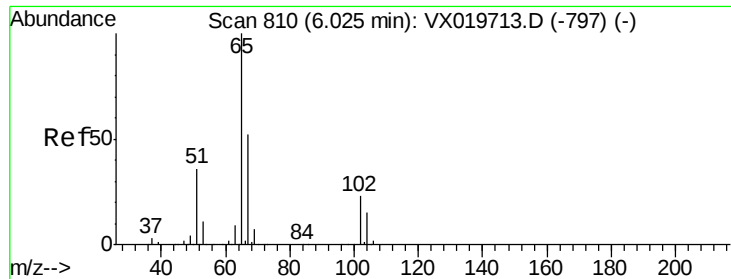


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

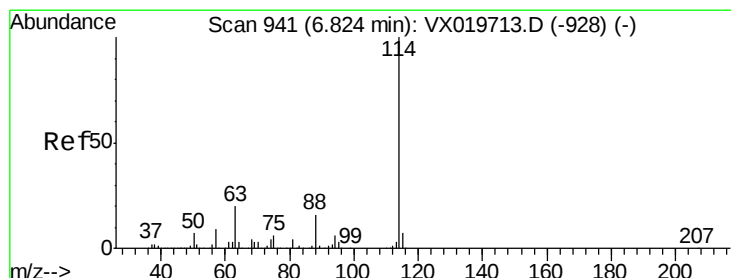
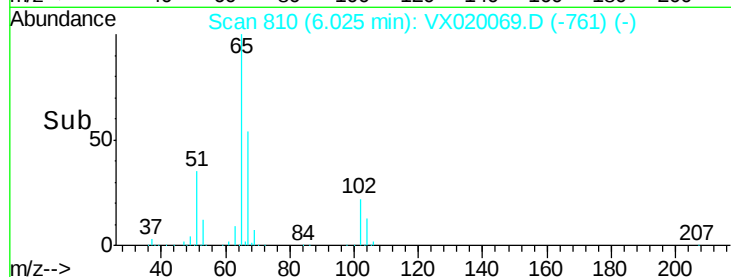
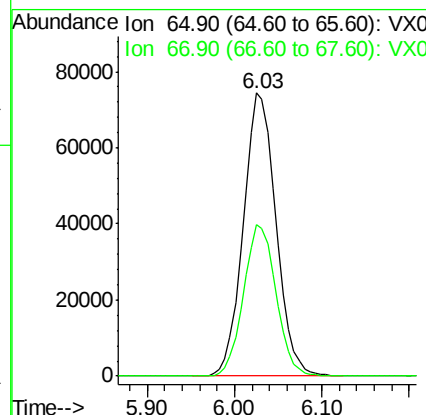
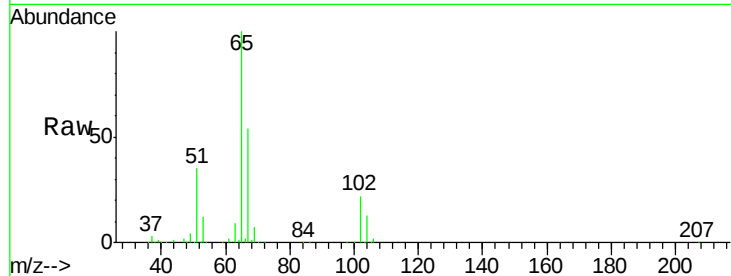




#33
 1,2-Dichloroethane-d4
 Concen: 48.032 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX020069.D
 Acq: 16 Dec 2020 16:44

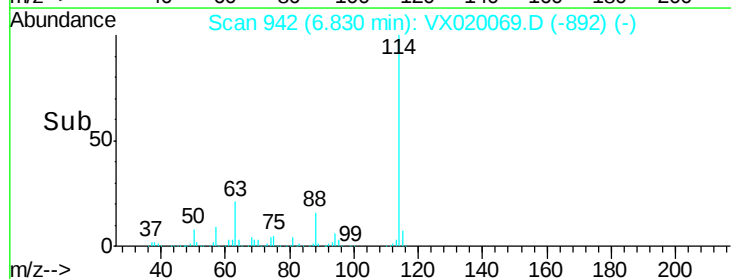
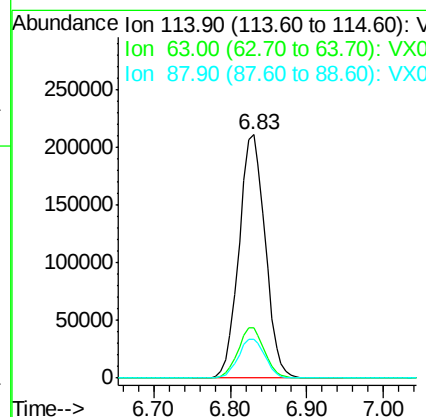
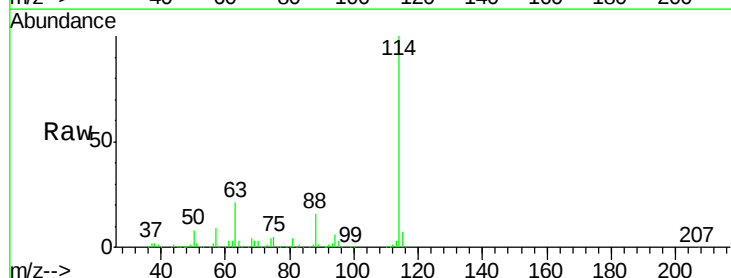
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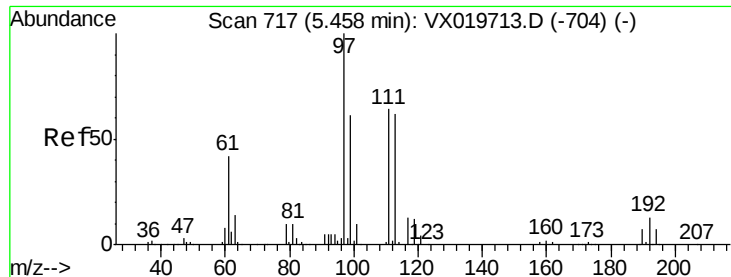
Tgt Ion: 65 Resp: 192646
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020069.D
 Acq: 16 Dec 2020 16:44

Tgt Ion: 114 Resp: 500364
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.830 ug/l

RT: 5.46 min Scan# 717

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

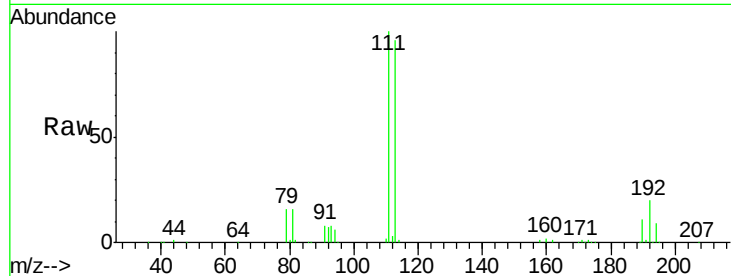
Tgt Ion:113 Resp: 154670

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

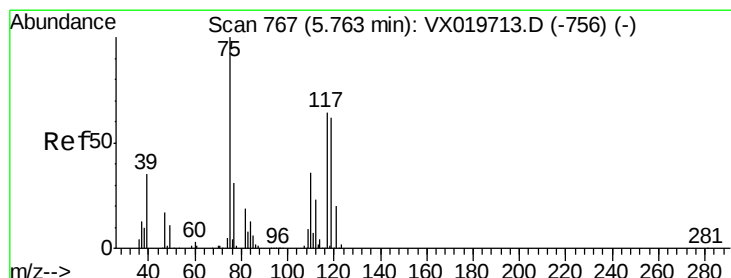
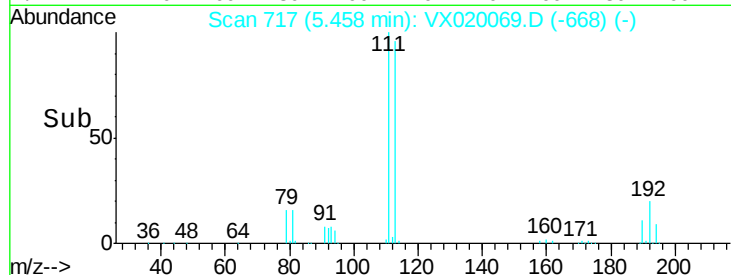
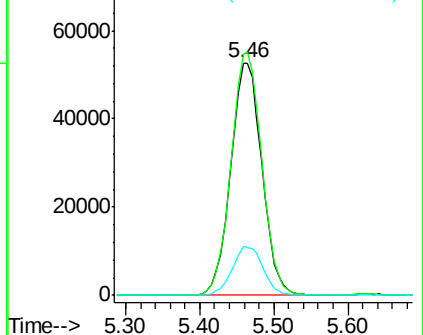
192 20.6 16.7 25.1



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: 5.095 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

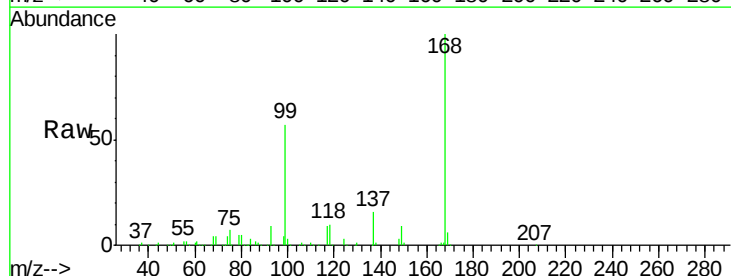
Tgt Ion: 75 Resp: 23037

Ion Ratio Lower Upper

75 100

110 8.2 18.1 54.4#

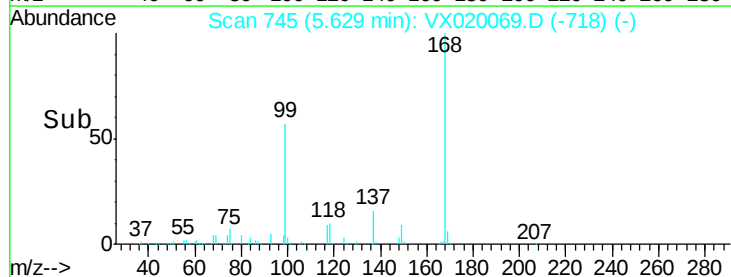
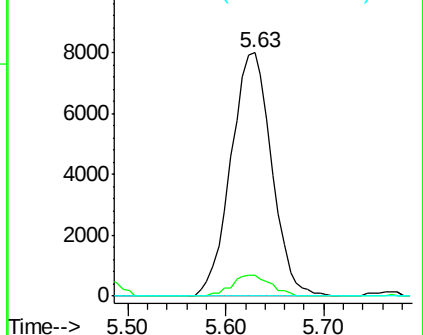
77 0.0 25.3 37.9#

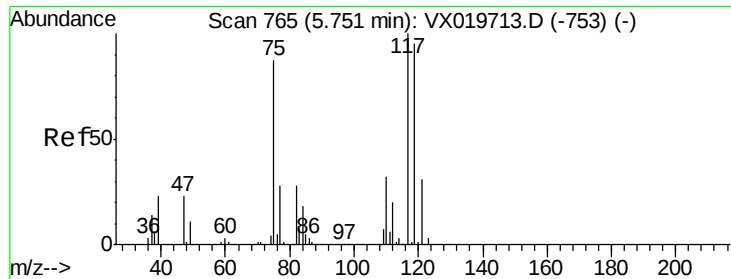


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

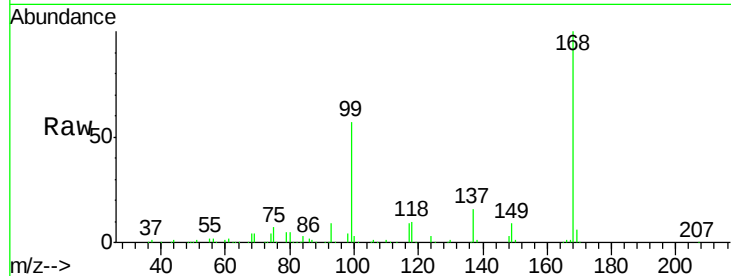




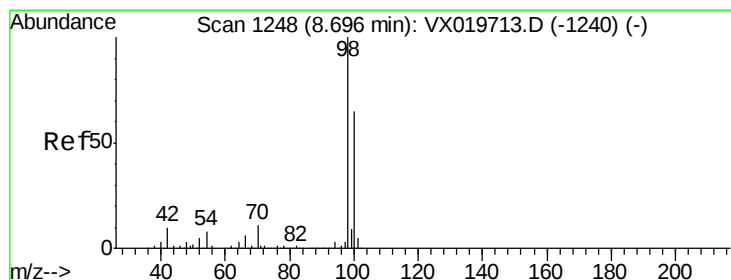
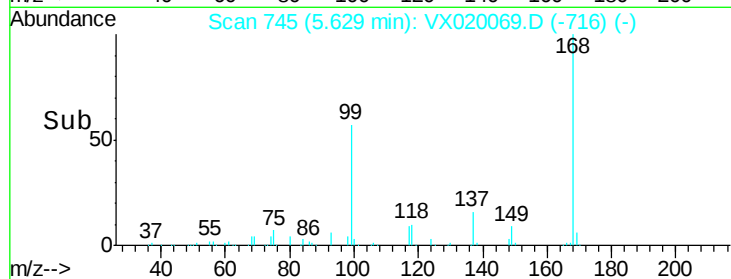
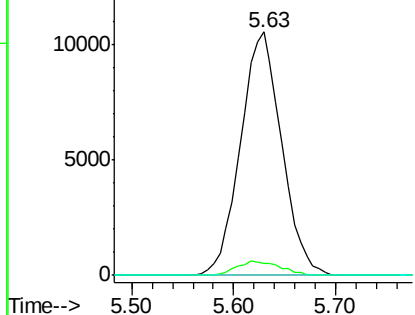
#38
Carbon Tetrachloride
Concen: 6.662 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

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

Tgt Ion:117 Resp: 29496
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 24.8 37.2#

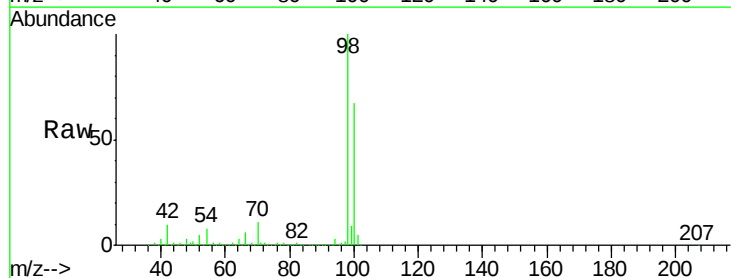


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

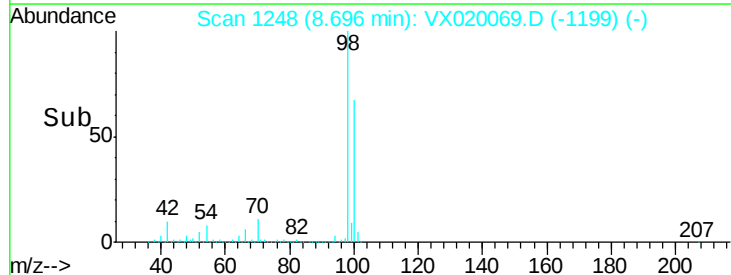
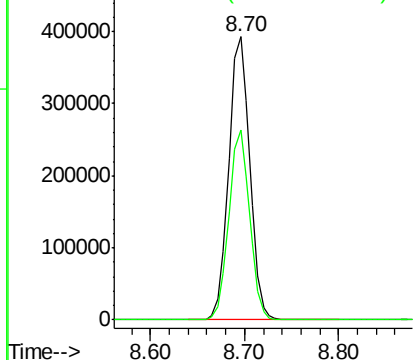


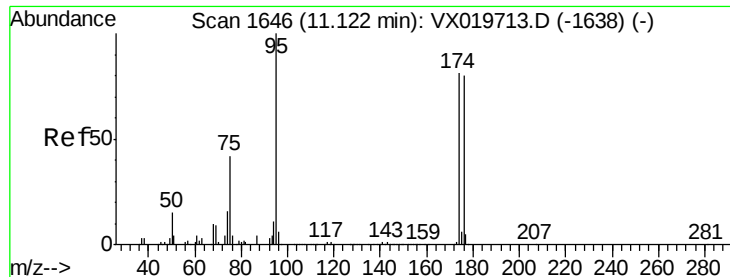
#50
Toluene-d8
Concen: 49.376 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

Tgt Ion: 98 Resp: 609583
Ion Ratio Lower Upper
98 100
100 66.0 51.9 77.9



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





#62

4-Bromofluorobenzene

Concen: 44.396 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

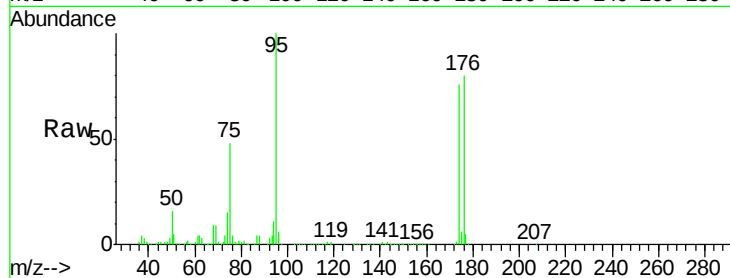
Tgt Ion: 95 Resp: 208613

Ion Ratio Lower Upper

95 100

174 76.1 0.0 154.6

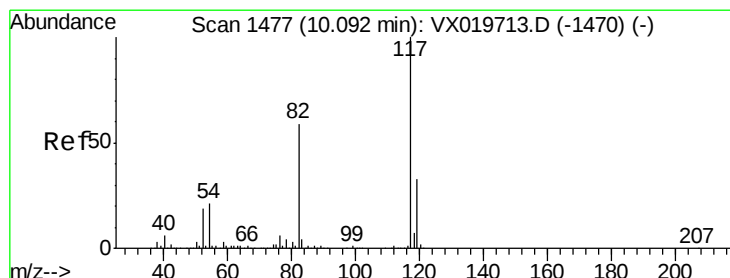
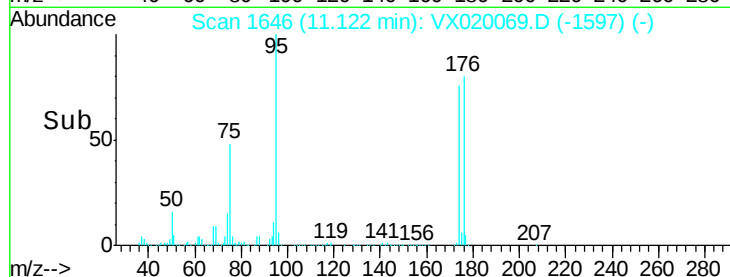
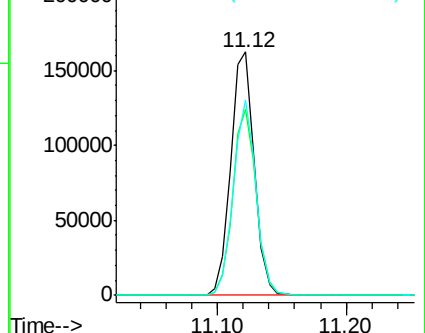
176 76.8 0.0 155.8



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: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

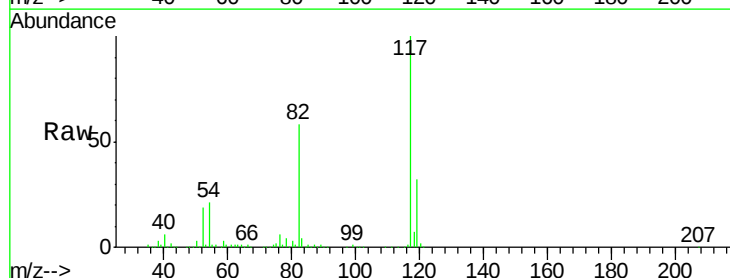
Tgt Ion: 117 Resp: 458764

Ion Ratio Lower Upper

117 100

82 58.0 47.4 71.2

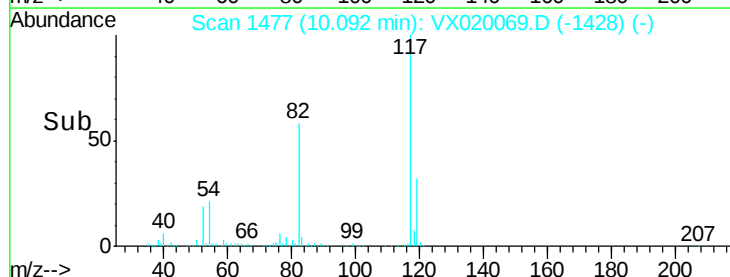
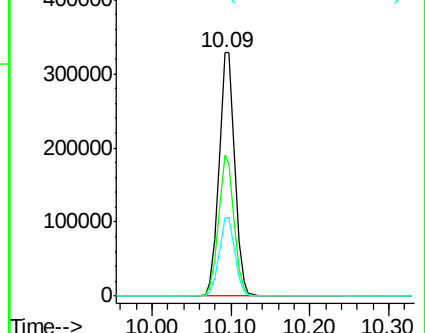
119 32.4 26.6 39.8

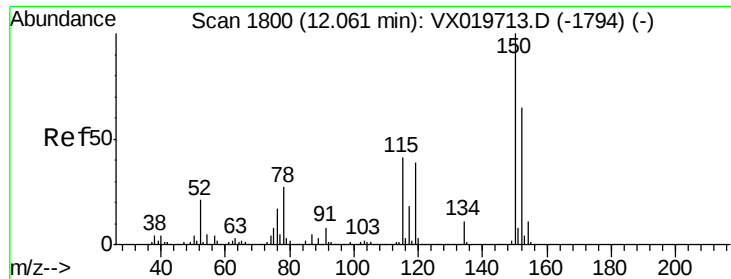


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

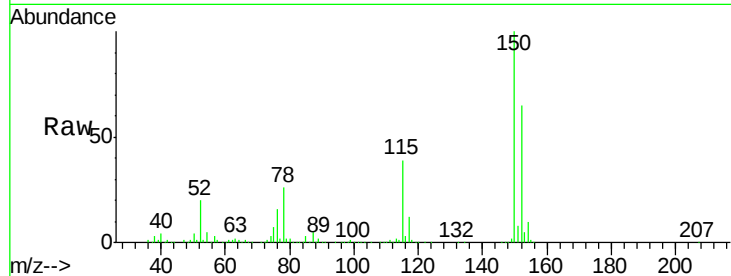
Tgt Ion:152 Resp: 193770

Ion Ratio Lower Upper

152 100

115 59.6 41.1 123.3

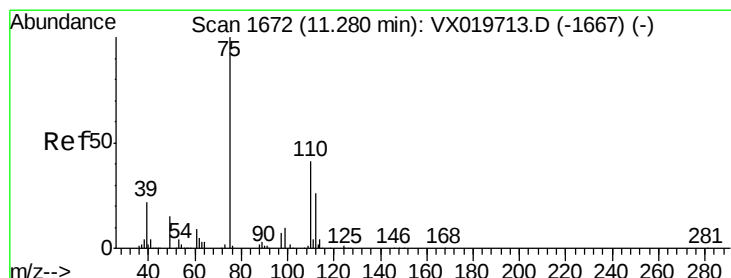
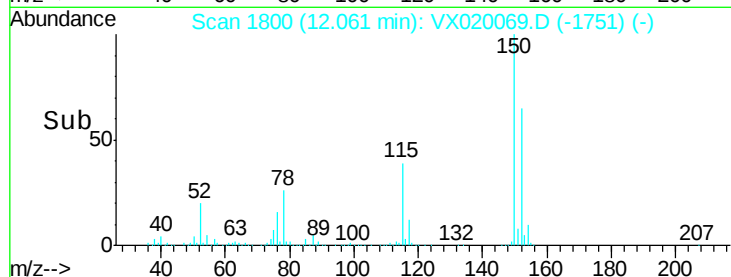
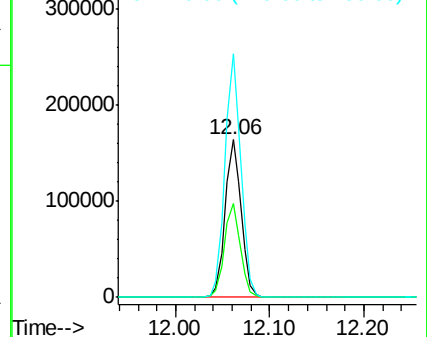
150 154.0 0.0 349.0



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: 23.422 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020069.D

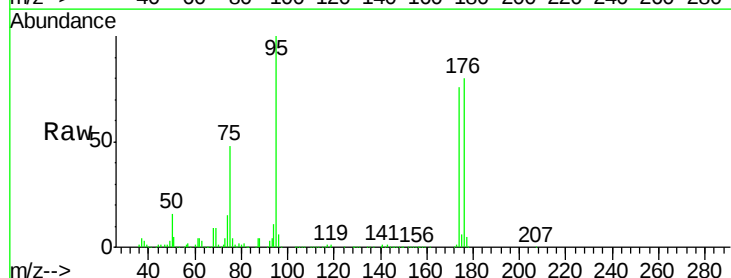
Acq: 16 Dec 2020 16:44

Tgt Ion: 75 Resp: 101789

Ion Ratio Lower Upper

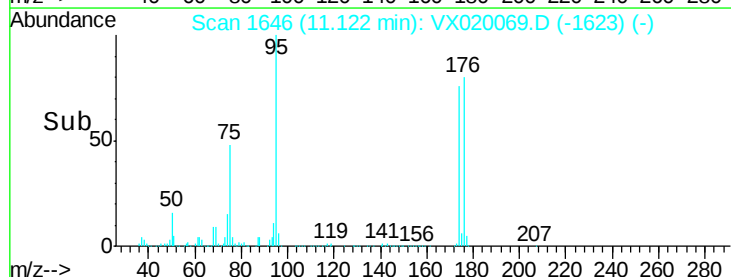
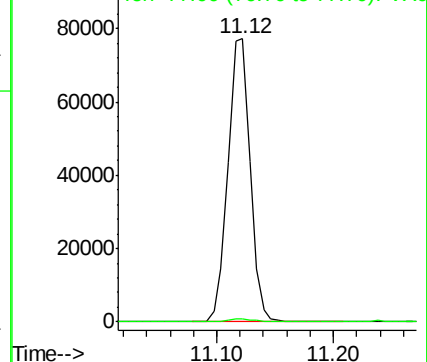
75 100

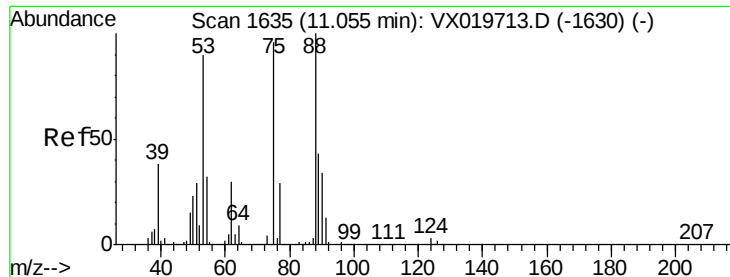
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

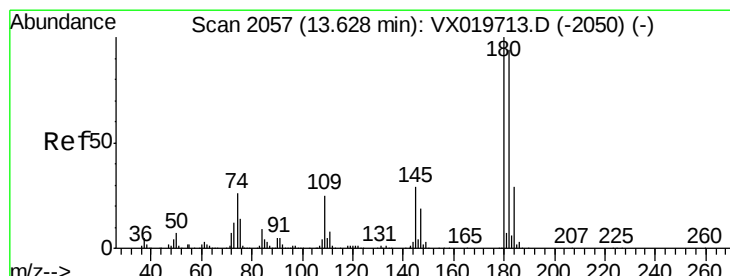
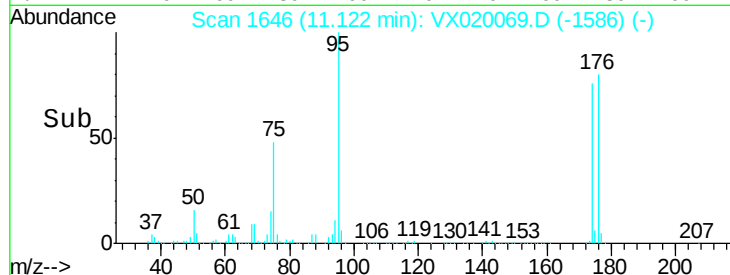
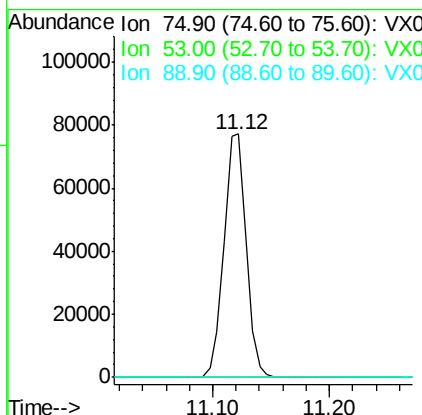
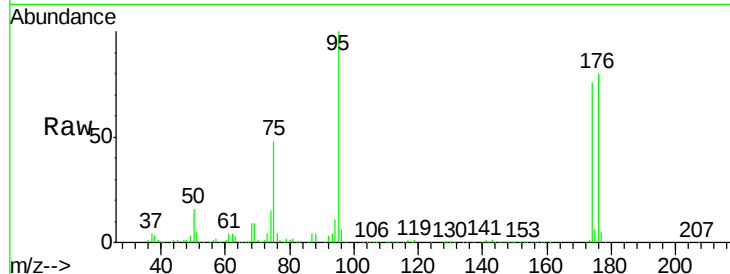




#81
trans-1,4-Dichloro-2-butene
Concen: 67.708 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

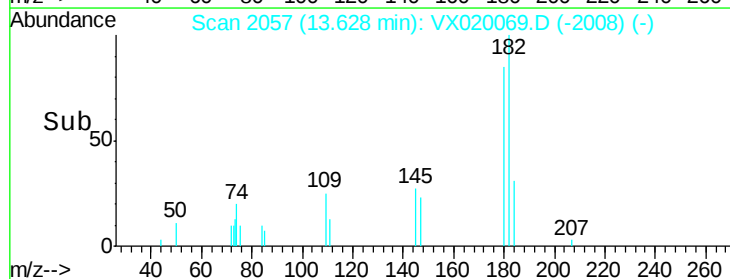
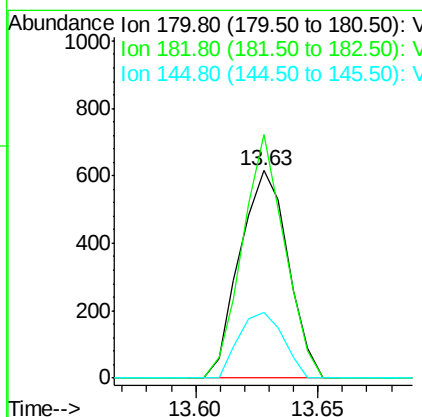
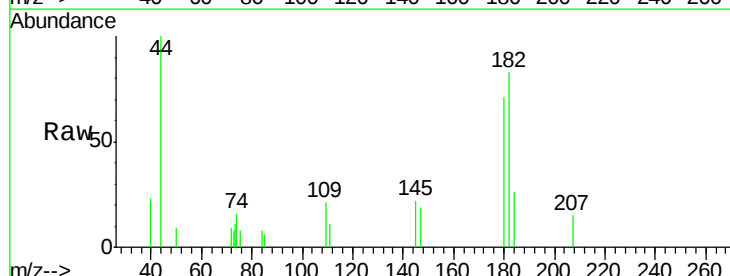
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

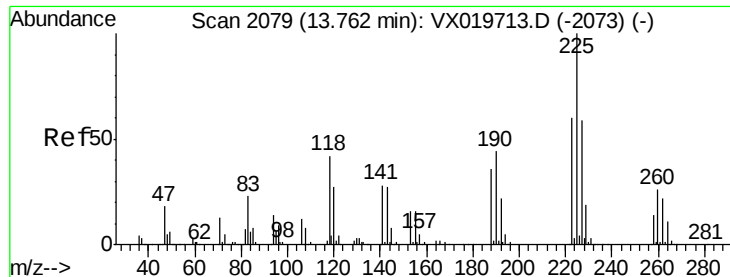
Tgt Ion: 75 Resp: 101789
Ion Ratio Lower Upper
75 100
53 0.1 74.5 111.7#
89 0.0 37.9 56.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.215 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. 0.00 min
Lab File: VX020069.D
Acq: 16 Dec 2020 16:44

Tgt Ion: 180 Resp: 849
Ion Ratio Lower Upper
180 100
182 102.2 47.7 143.1
145 29.0 15.0 45.0





#94

Hexachlorobutadiene

Concen: 0.235 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

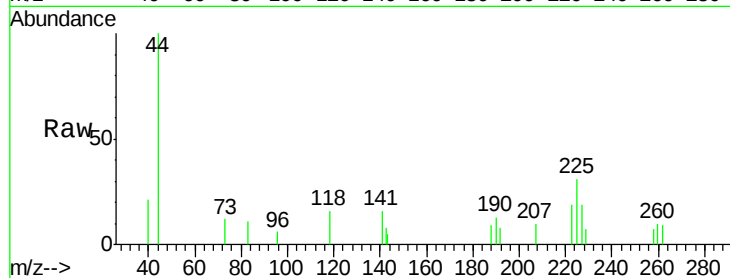
Tgt Ion:225 Resp: 415

Ion Ratio Lower Upper

225 100

223 76.9 31.1 93.2

227 62.7 31.6 95.0

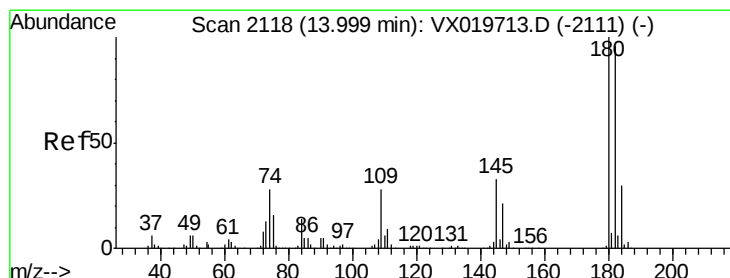
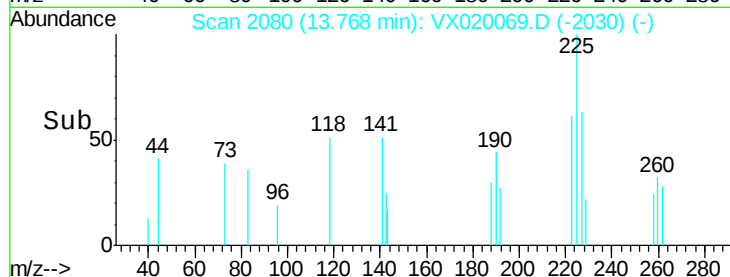
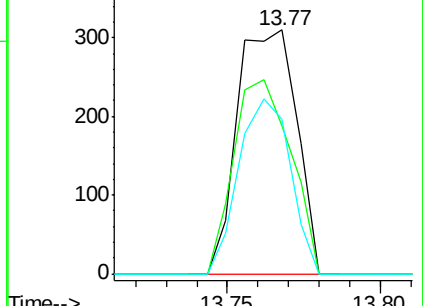


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

13.77



#96

1,2,3-Trichlorobenzene

Concen: 0.207 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VX020069.D

Acq: 16 Dec 2020 16:44

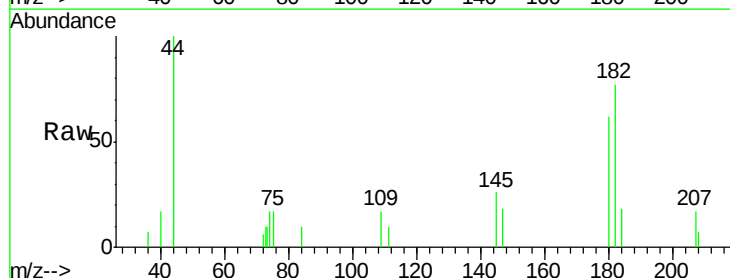
Tgt Ion:180 Resp: 799

Ion Ratio Lower Upper

180 100

182 101.9 47.6 142.9

145 36.9 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

14.00

