

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060520\
 Data File : VX016602.D
 Acq On : 05 Jun 2020 11:45
 Operator : JC/SP
 Sample : L2922-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Jun 06 05:59:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	219912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	352061	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	349197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	177091	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	130842	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	
35) Dibromofluoromethane	5.46	113	104663	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
50) Toluene-d8	8.70	98	432706	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
62) 4-Bromofluorobenzene	11.12	95	170440	52.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.56%	

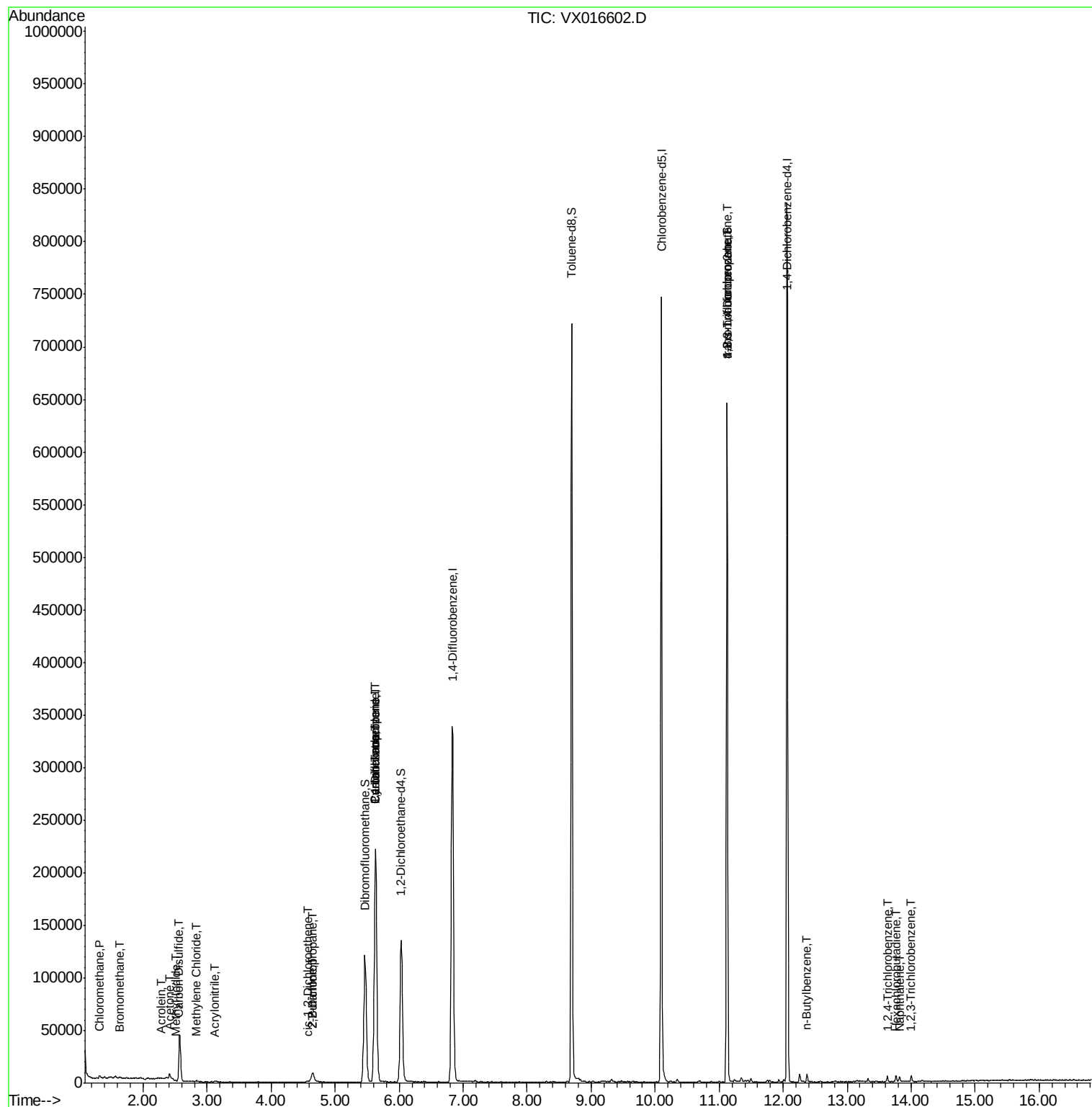
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1291	0.49	ug/l	98
5) Bromomethane	1.64	94	522	0.39	ug/l #	72
10) Methyl Iodide	2.51	142	523	3.26	ug/l #	87
13) Acrolein	2.28	56	560	1.88	ug/l #	72
15) Acrylonitrile	3.12	53	581	0.41	ug/l #	94
16) Acetone	2.42	43	3766	3.15	ug/l	100
17) Carbon Disulfide	2.55	76	1924	0.31	ug/l #	94
20) Methylene Chloride	2.84	84	618	0.25	ug/l #	83
25) 2-Butanone	4.65	43	995	0.49	ug/l #	49
26) 2,2-Dichloropropane	4.65	77	751	0.22	ug/l #	53
27) cis-1,2-Dichloroethene	4.57	96	732	0.27	ug/l	92
31) Cyclohexane	5.63	56	4043	1.07	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15615	4.68	ug/l #	51
38) Carbon Tetrachloride	5.63	117	21333	6.09	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	83004	21.32	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	83004	52.45	ug/l #	14
89) n-Butylbenzene	12.37	91	2249	0.26	ug/l	92
93) 1,2,4-Trichlorobenzene	13.63	180	1630	0.45	ug/l	96
94) Hexachlorobutadiene	13.77	225	1131	0.80	ug/l	90
95) Naphthalene	13.82	128	3336	0.27	ug/l	96
96) 1,2,3-Trichlorobenzene	14.00	180	1603	0.46	ug/l	89

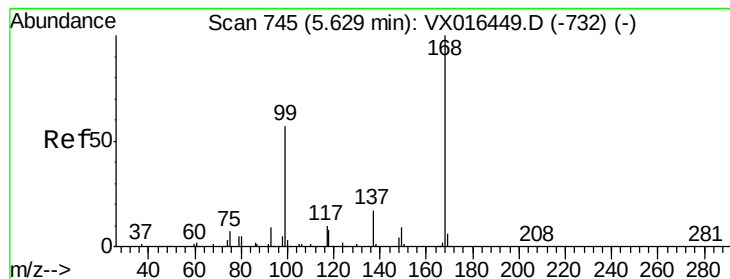
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

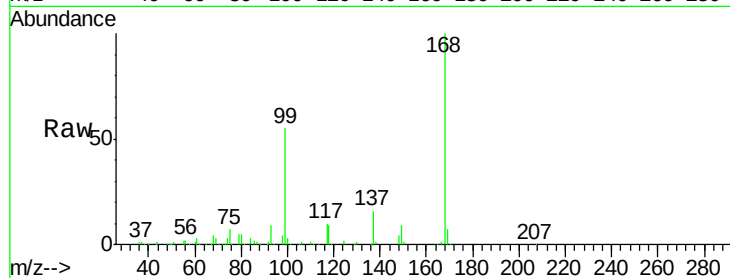
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:168 Resp: 219912

Ion Ratio Lower Upper

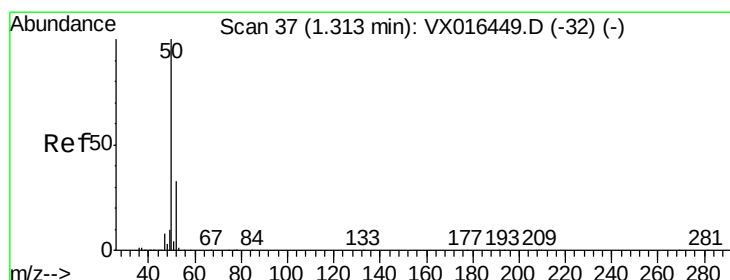
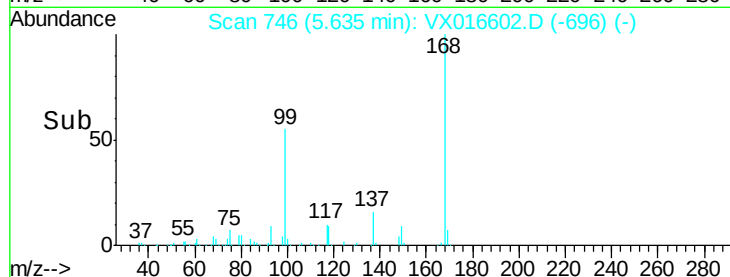
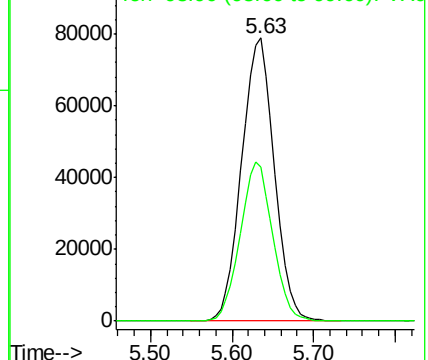
168 100

99 54.6 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.49 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016602.D

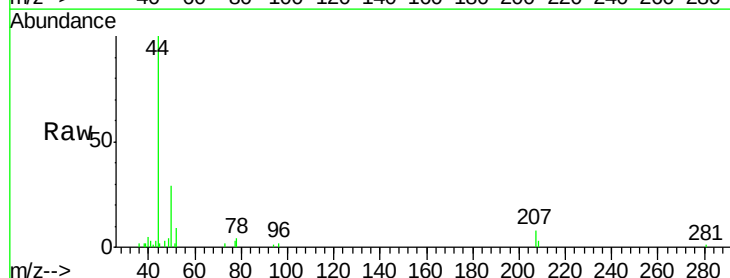
Acq: 05 Jun 2020 11:45

Tgt Ion: 50 Resp: 1291

Ion Ratio Lower Upper

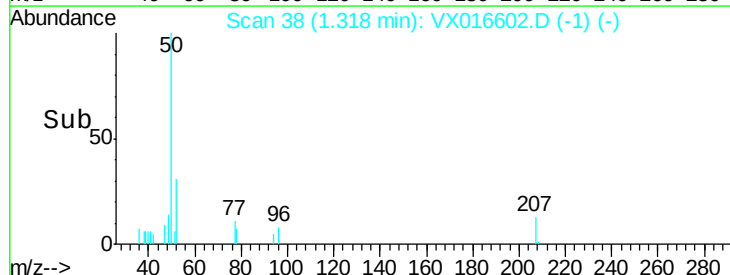
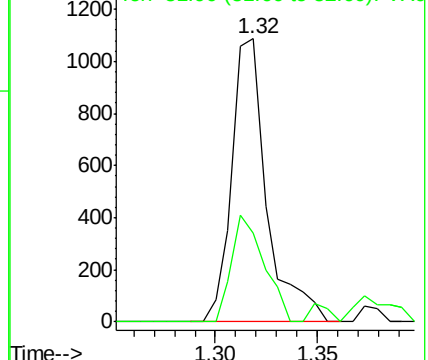
50 100

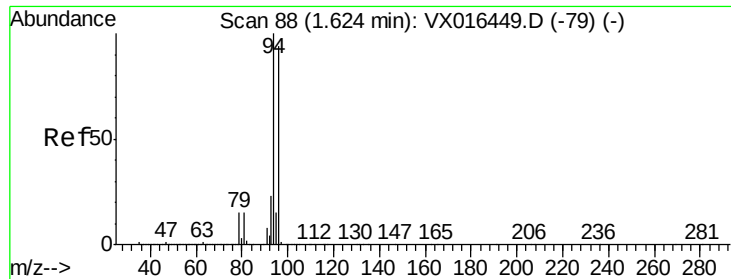
52 31.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.39 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

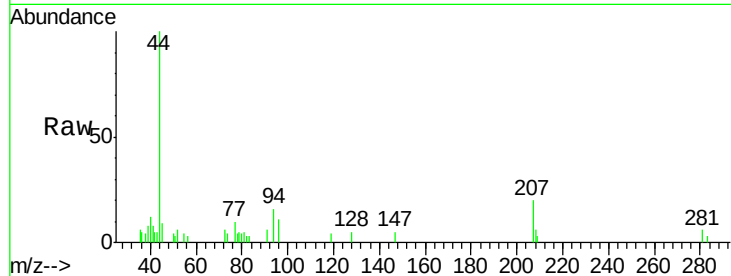
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 94 Resp: 522

Ion Ratio Lower Upper

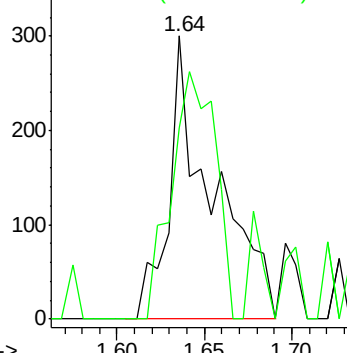
94 100

96 67.3 75.1 112.7#

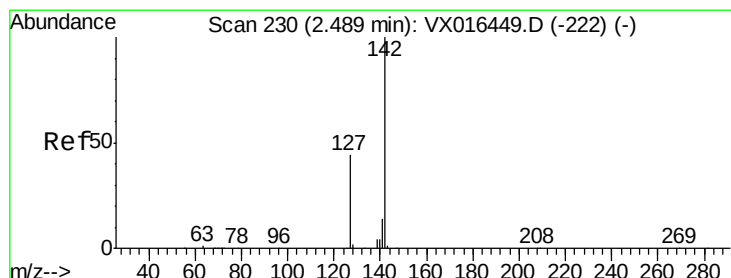
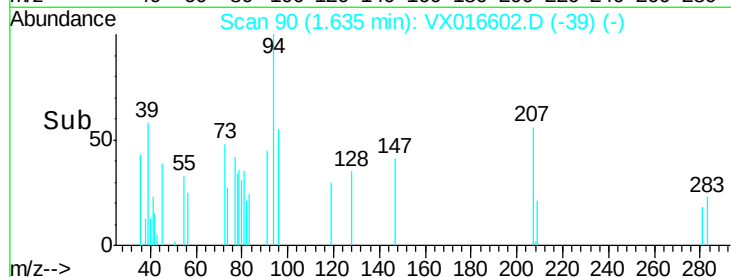


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 3.26 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

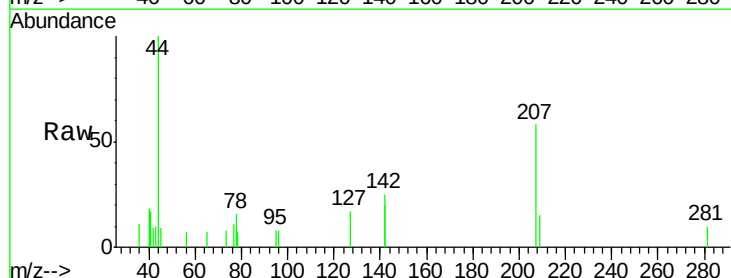
Tgt Ion: 142 Resp: 523

Ion Ratio Lower Upper

142 100

127 40.0 35.3 52.9

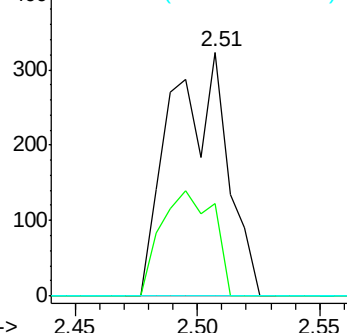
141 0.0 11.4 17.2#



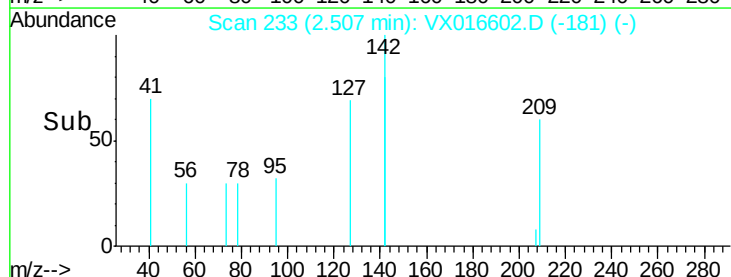
Abundance Ion 141.80 (141.50 to 142.50): V

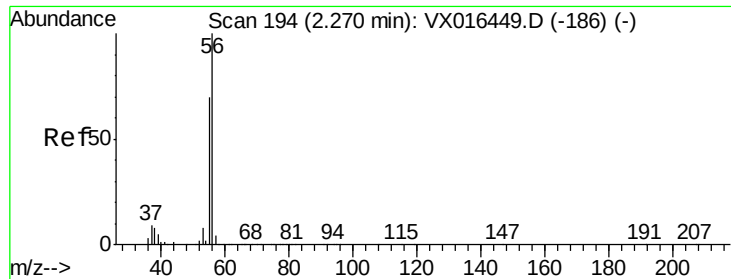
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#13

Acrolein

Concen: 1.88 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

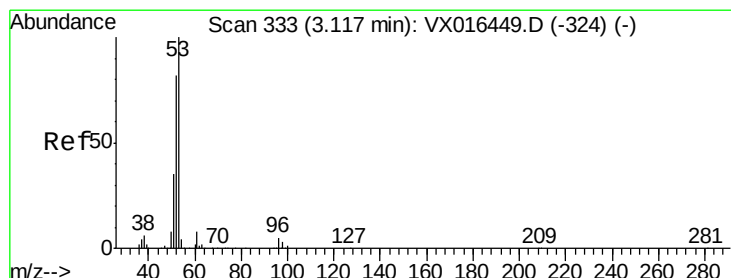
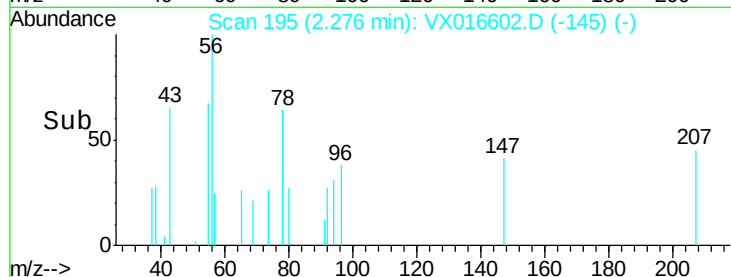
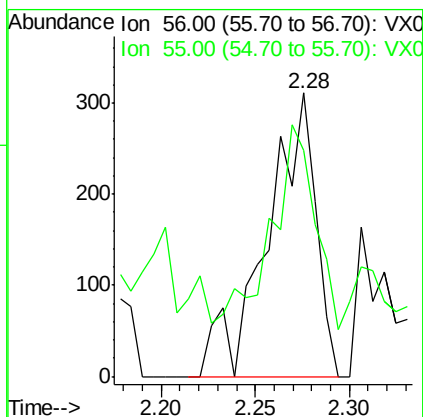
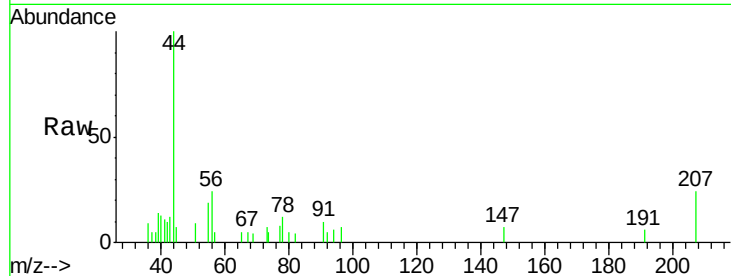
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 56 Resp: 560

Ion Ratio Lower Upper

56 100

55 96.4 58.3 87.5#



#15

Acrylonitrile

Concen: 0.41 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

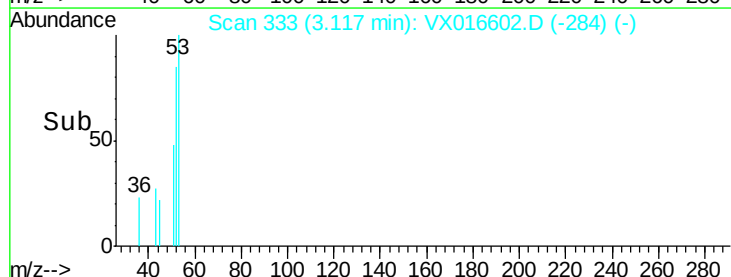
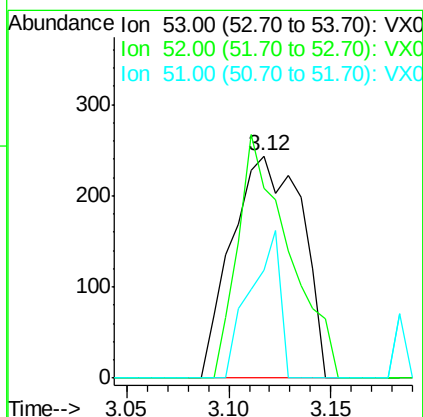
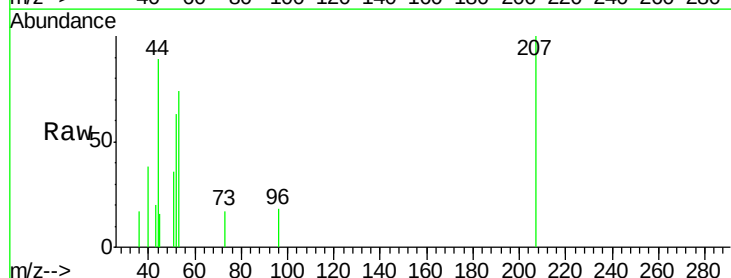
Tgt Ion: 53 Resp: 581

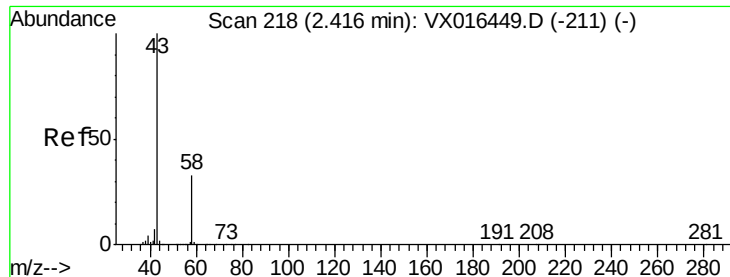
Ion Ratio Lower Upper

53 100

52 80.0 66.7 100.1

51 28.6 28.6 43.0#





#16

Acetone

Concen: 3.15 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

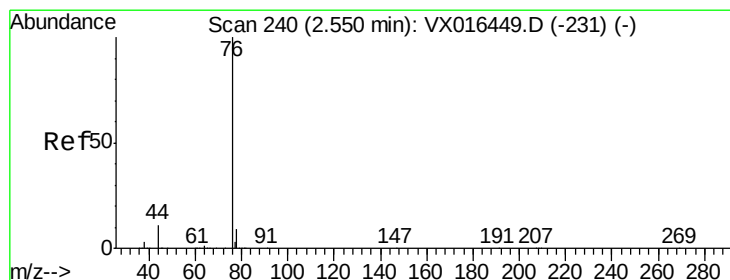
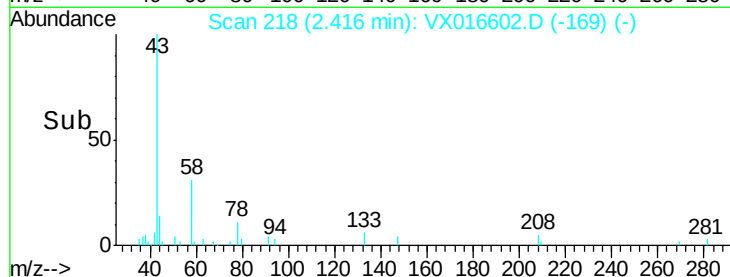
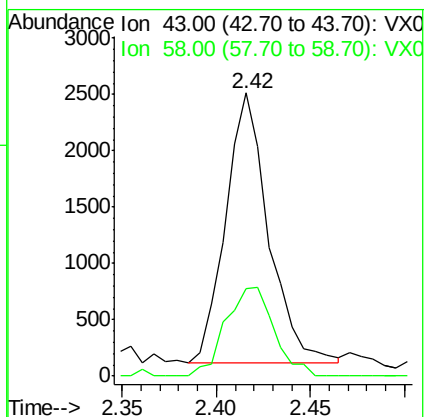
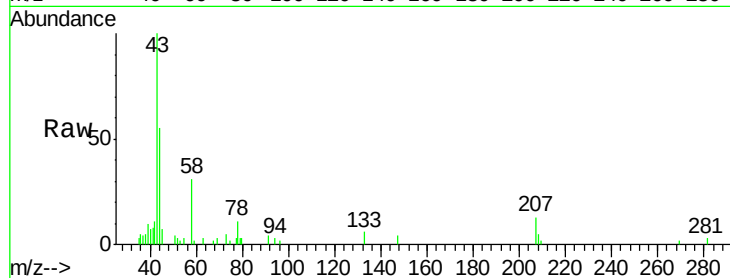
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 43 Resp: 3766

Ion Ratio Lower Upper

43 100

58 32.6 26.1 39.1



#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016602.D

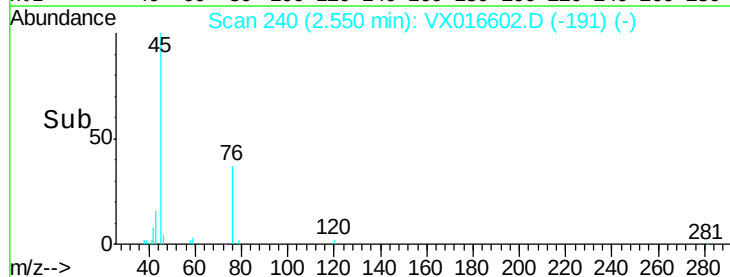
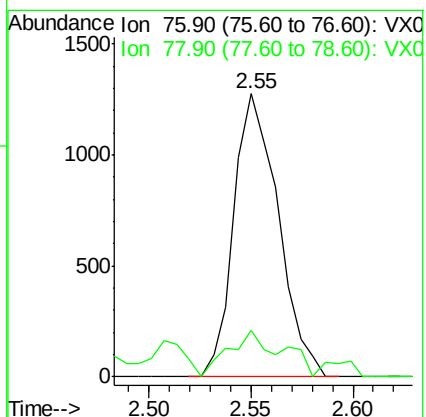
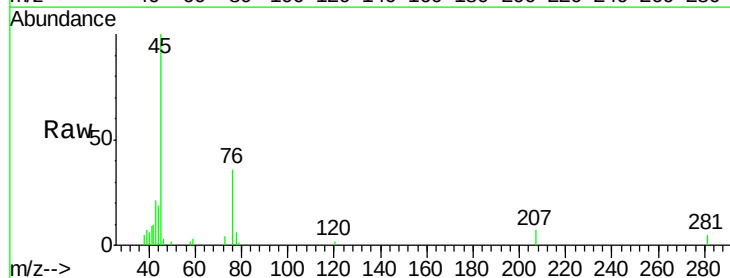
Acq: 05 Jun 2020 11:45

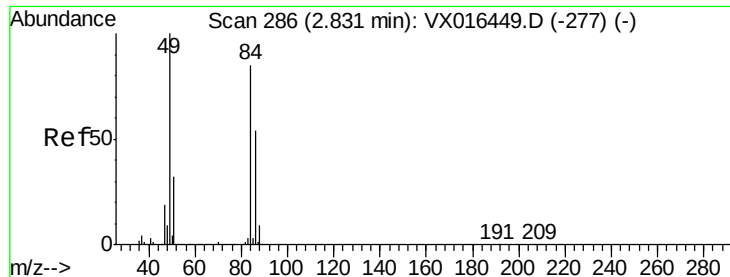
Tgt Ion: 76 Resp: 1924

Ion Ratio Lower Upper

76 100

78 11.5 7.4 11.0#

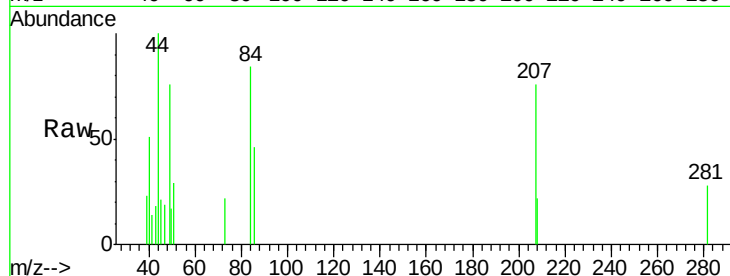




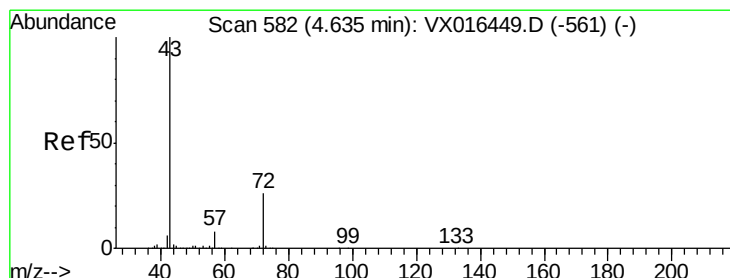
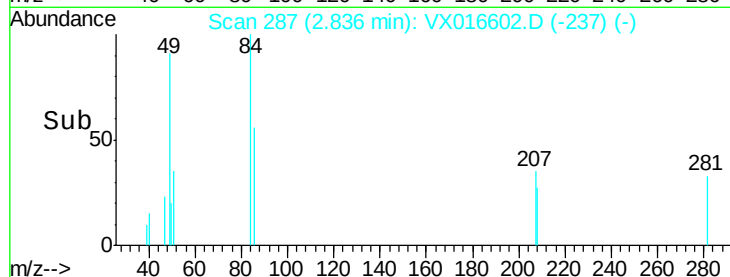
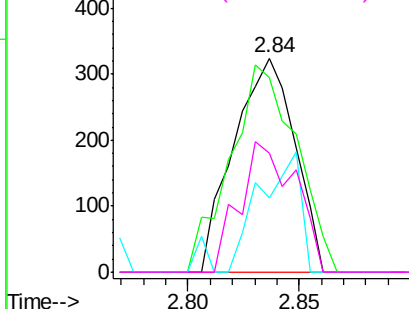
#20
Methylene Chloride
Concen: 0.25 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

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

Tgt Ion: 84 Resp: 618
Ion Ratio Lower Upper
84 100
49 90.7 94.5 141.7#
51 34.9 30.2 45.4
86 55.6 51.1 76.7

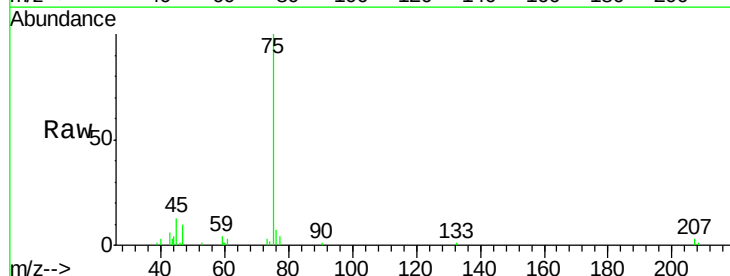


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

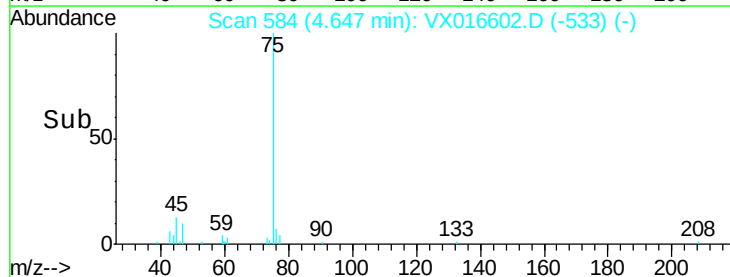
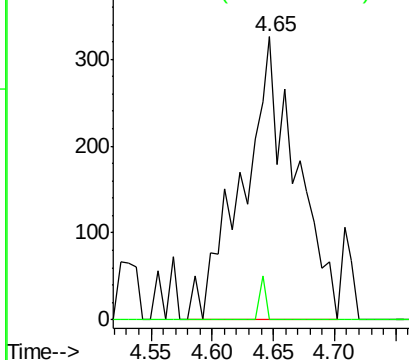


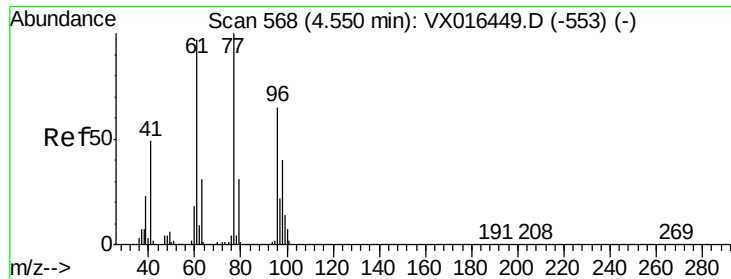
#25
2-Butanone
Concen: 0.49 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

Tgt Ion: 43 Resp: 995
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

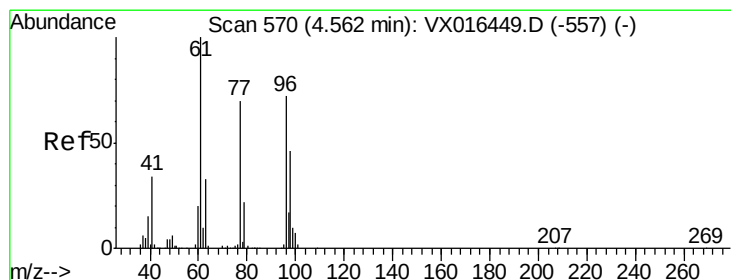
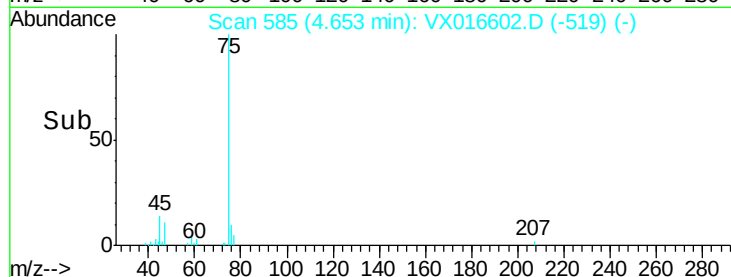
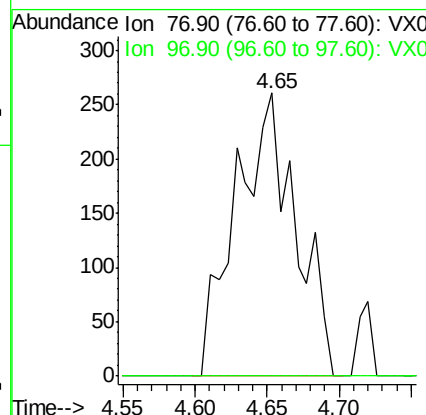
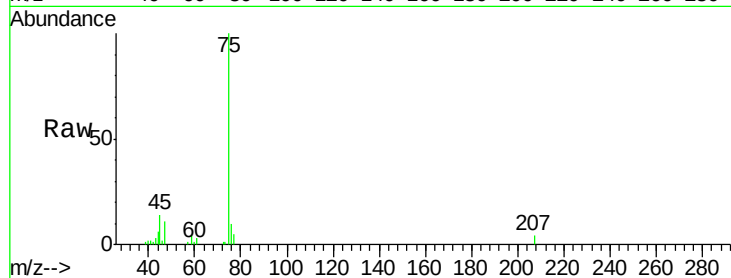




#26
 2,2-Dichloropropane
 Concen: 0.22 ug/l
 RT: 4.65 min Scan# 585
 Delta R.T. 0.10 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

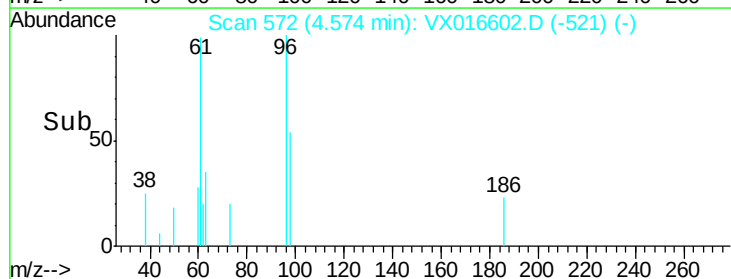
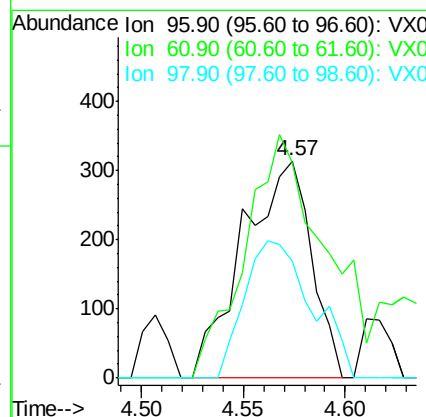
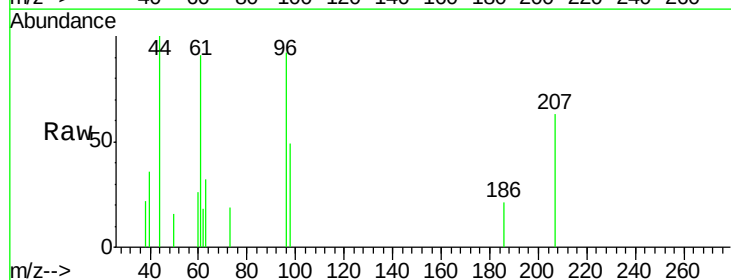
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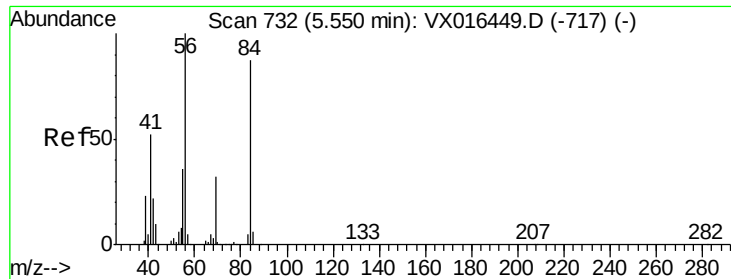
Tgt Ion: 77 Resp: 751
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.5 34.4#



#27
 cis-1,2-Dichloroethene
 Concen: 0.27 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

Tgt Ion: 96 Resp: 732
 Ion Ratio Lower Upper
 96 100
 61 130.1 0.0 284.6
 98 62.0 0.0 127.2

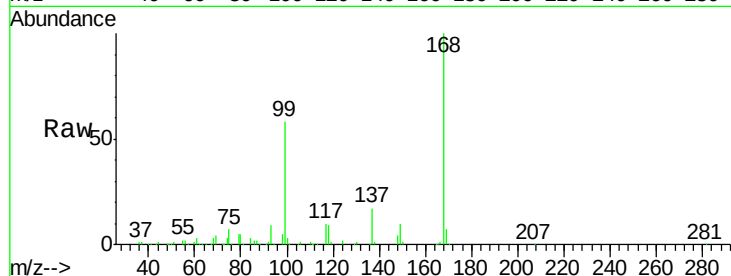




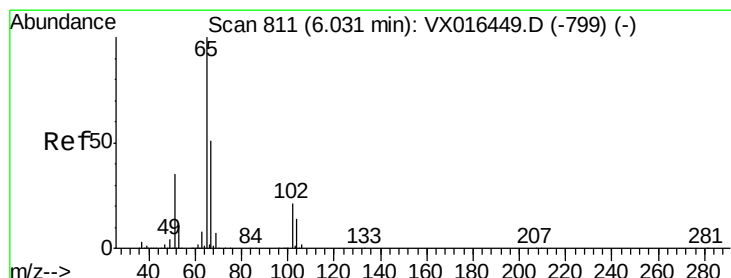
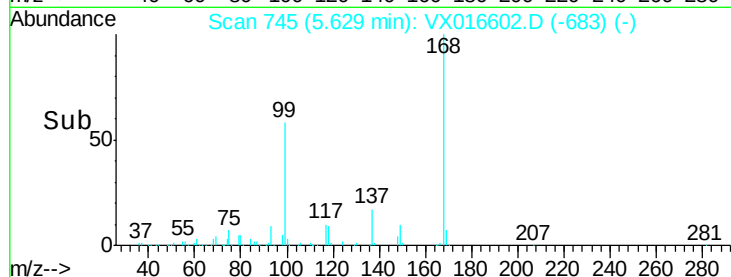
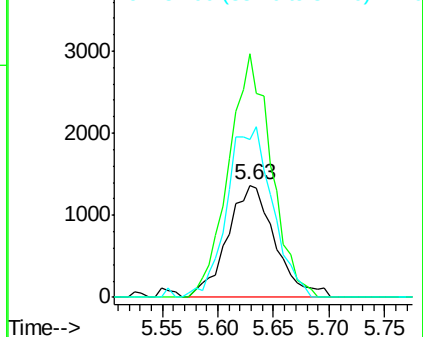
#31
Cyclohexane
Concen: 1.07 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

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

Tgt Ion: 56 Resp: 4043
Ion Ratio Lower Upper
56 100
69 216.9 25.7 38.5#
84 140.9 70.0 105.0#

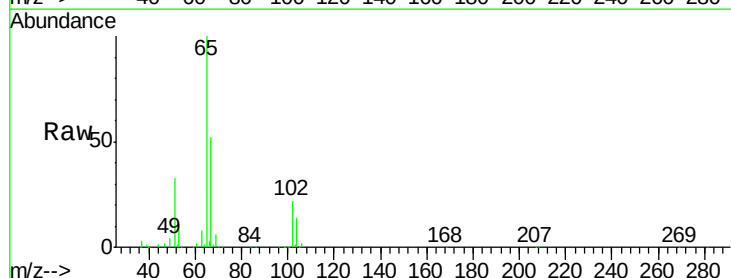


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

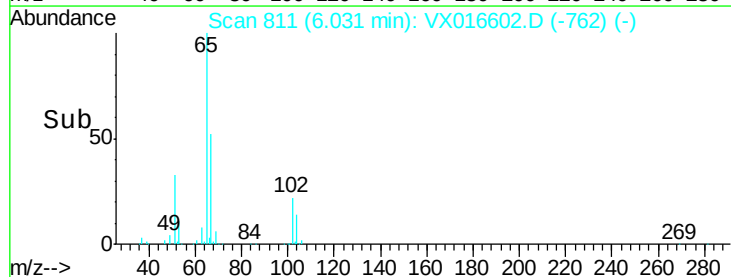
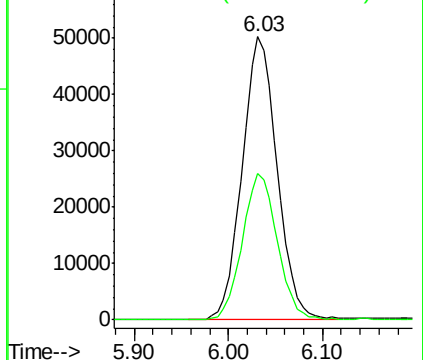


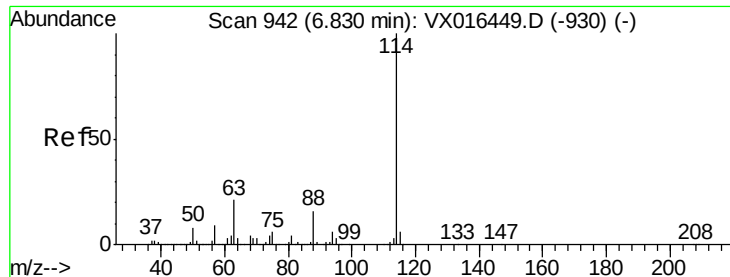
#33
1,2-Dichloroethane-d4
Concen: 47.91 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

Tgt Ion: 65 Resp: 130842
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

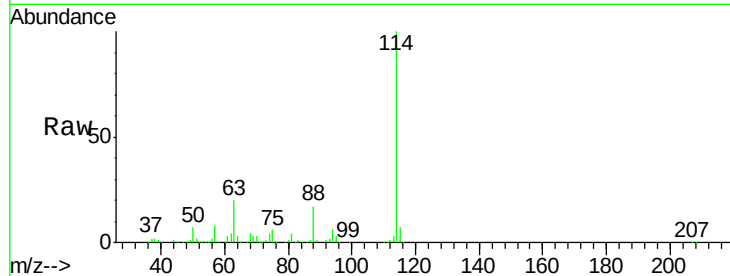
Tgt Ion:114 Resp: 352061

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 17.1 0.0 32.8



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

200000

150000

100000

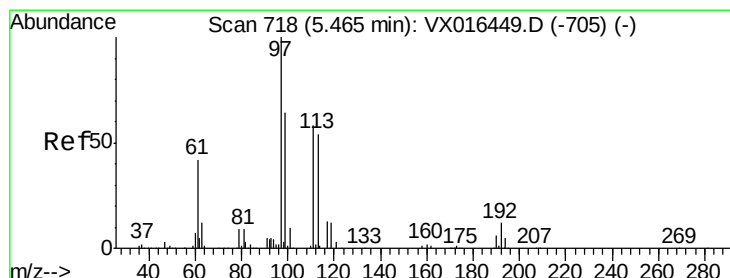
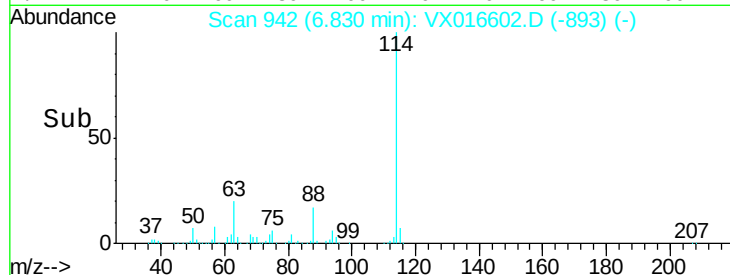
50000

0

6.83

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 48.28 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

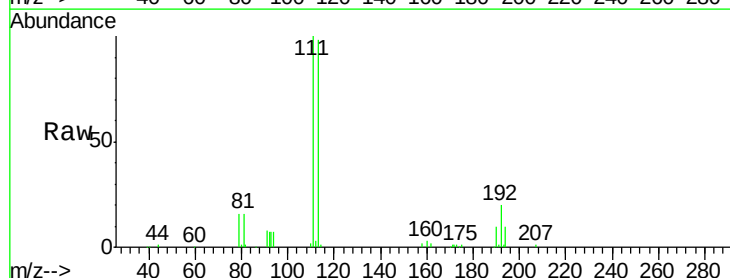
Tgt Ion:113 Resp: 104663

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.6

192 23.0 17.7 26.5



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

50000

40000

30000

20000

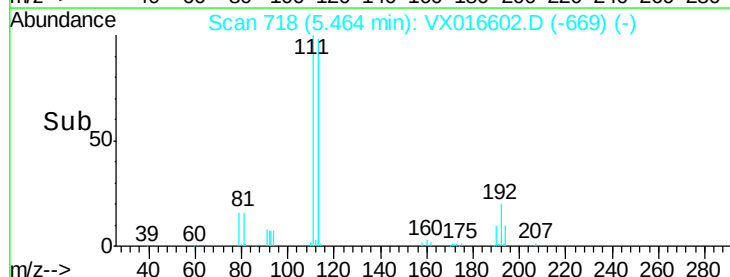
10000

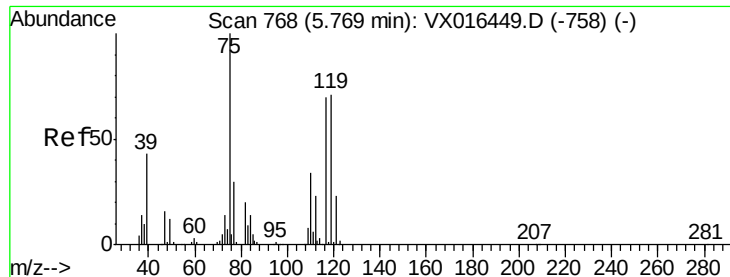
0

5.46

5.30 5.40 5.50 5.60

Time-->

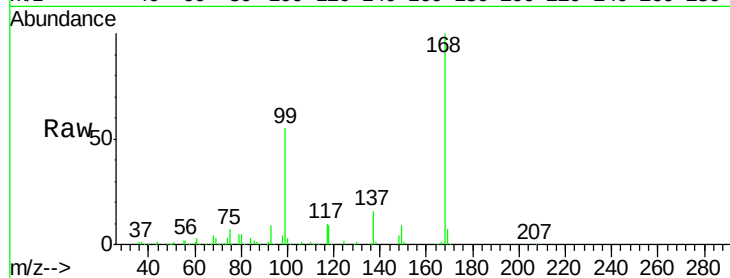




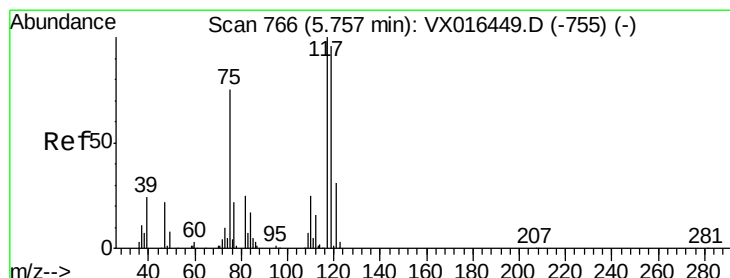
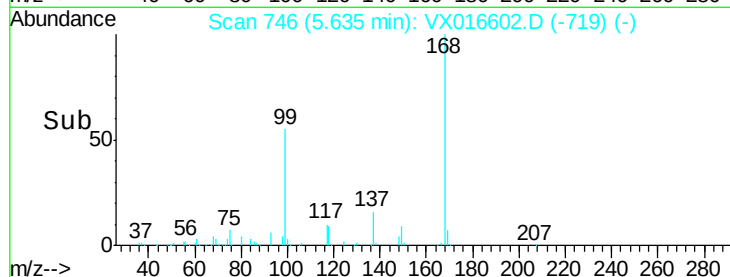
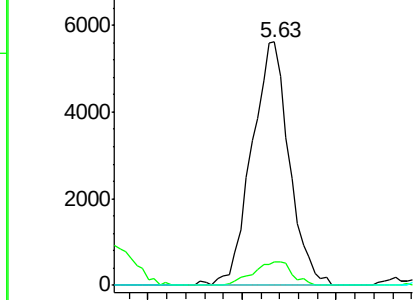
#36
 1,1-Dichloropropene
 Concen: 4.68 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

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

Tgt Ion: 75 Resp: 15615
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.4 52.3#
 77 0.0 24.2 36.4#

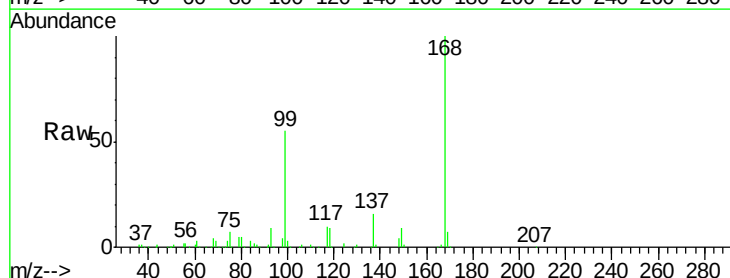


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

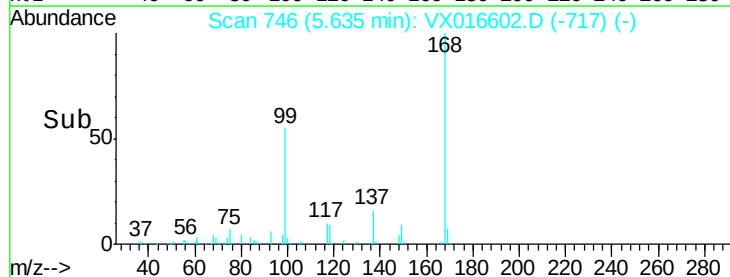
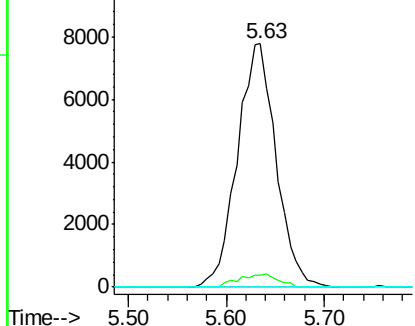


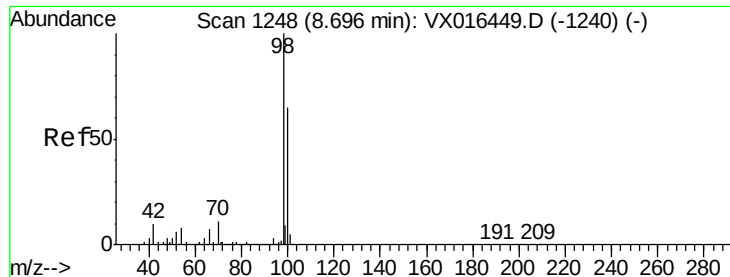
#38
 Carbon Tetrachloride
 Concen: 6.09 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

Tgt Ion: 117 Resp: 21333
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.3 114.5#
 121 0.0 24.6 37.0#



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: 51.28 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

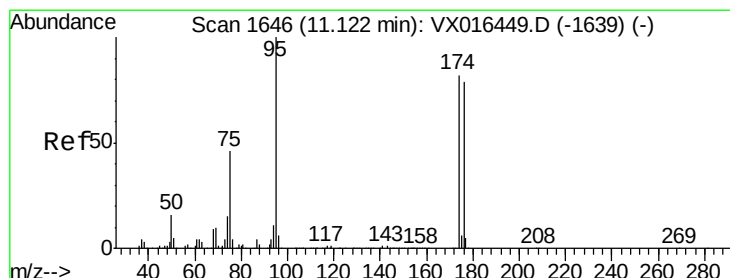
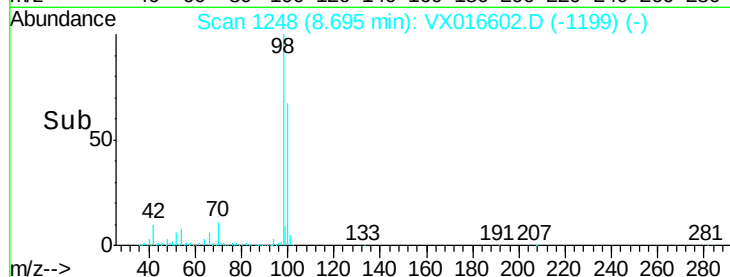
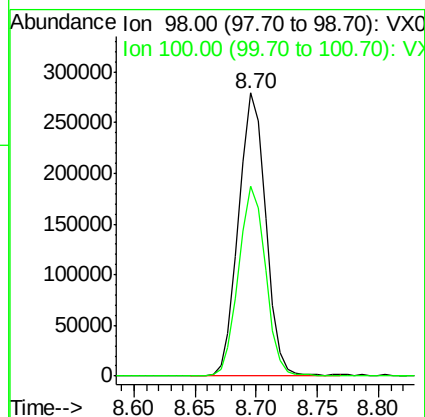
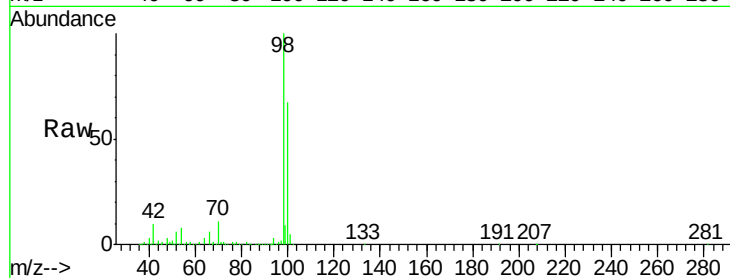
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 98 Resp: 432706

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 52.28 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

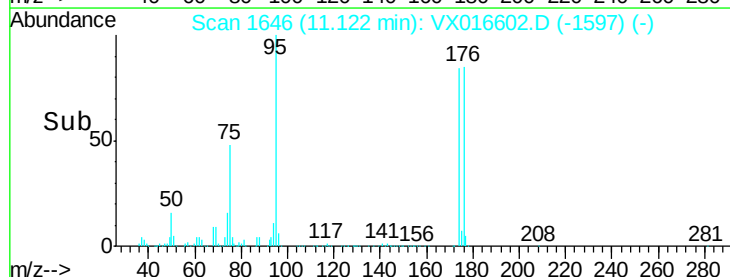
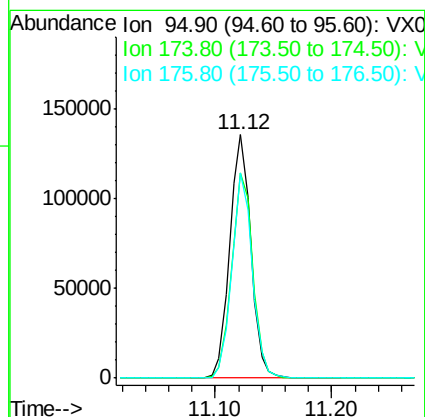
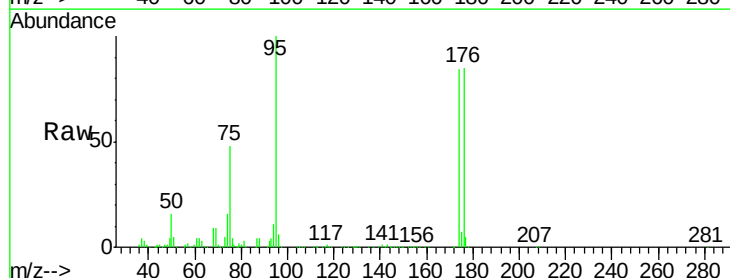
Tgt Ion: 95 Resp: 170440

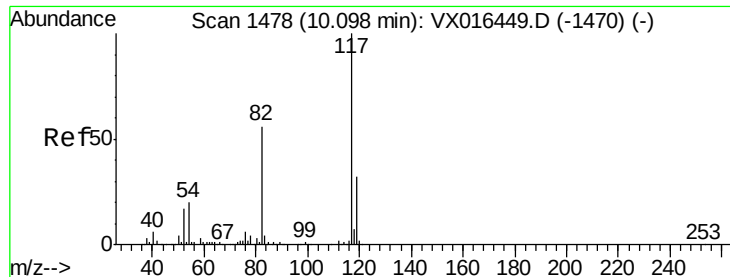
Ion Ratio Lower Upper

95 100

174 85.0 0.0 163.0

176 82.1 0.0 156.8

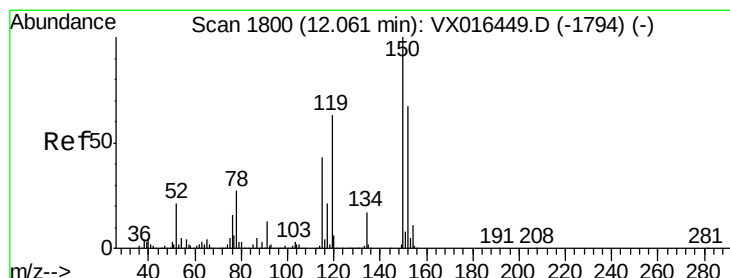
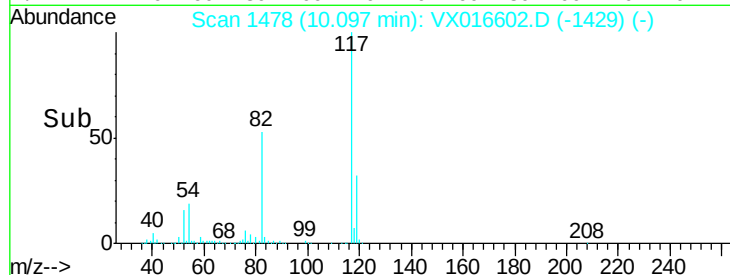
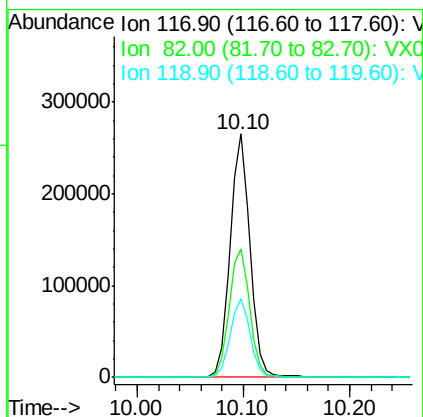
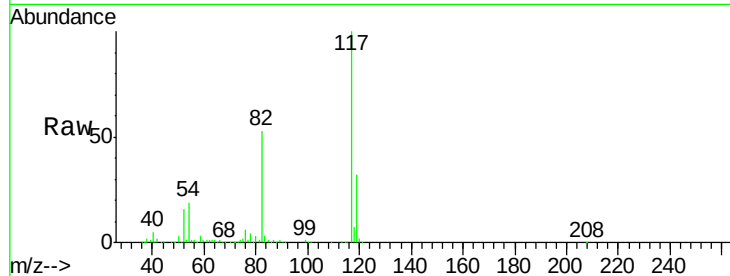




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

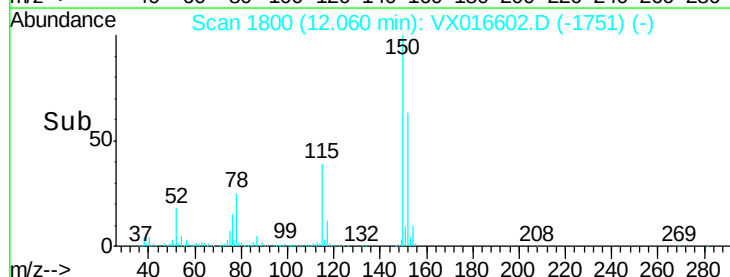
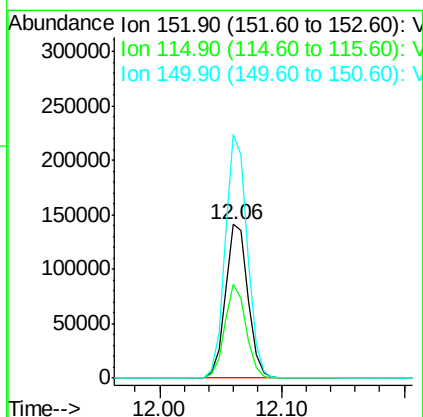
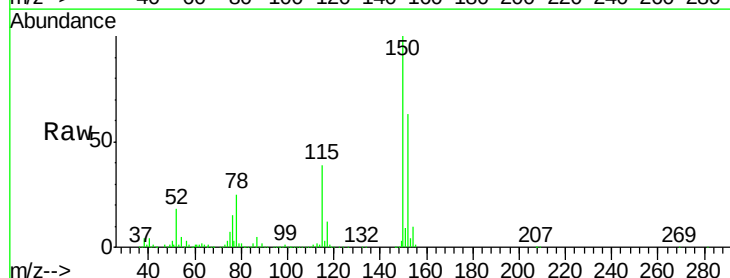
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

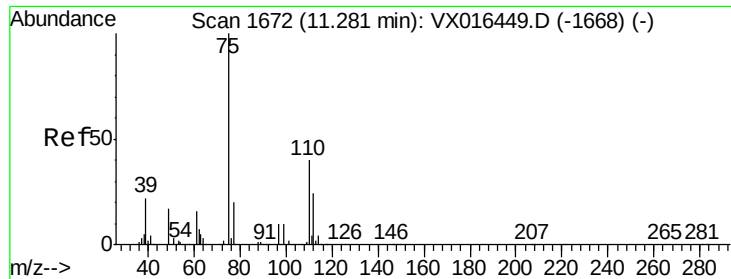
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	45.0	67.6
119	32.1	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.8	39.9	119.6
150	155.5	0.0	341.0

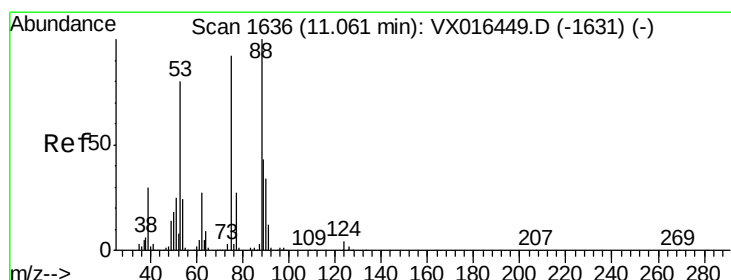
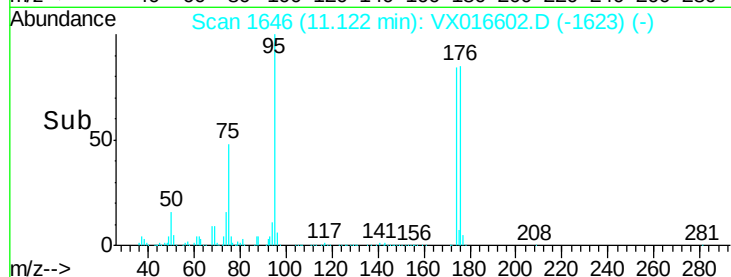
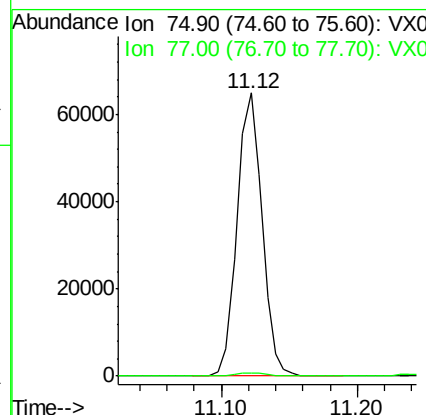
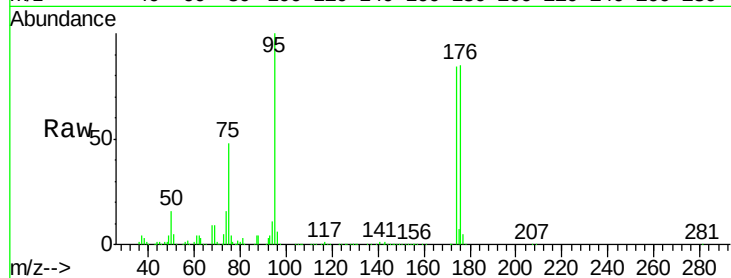




#76
 1,2,3-Trichloropropane
 Concen: 21.32 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

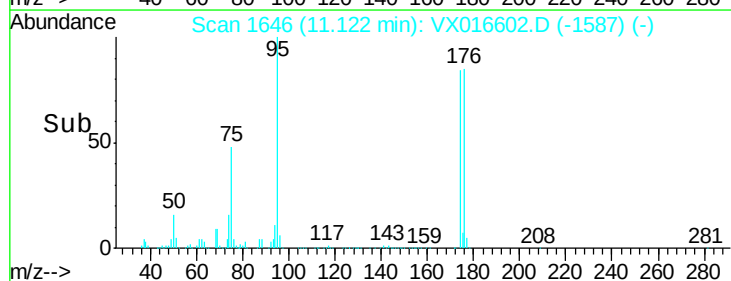
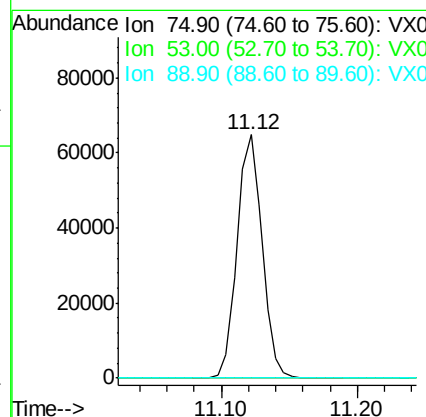
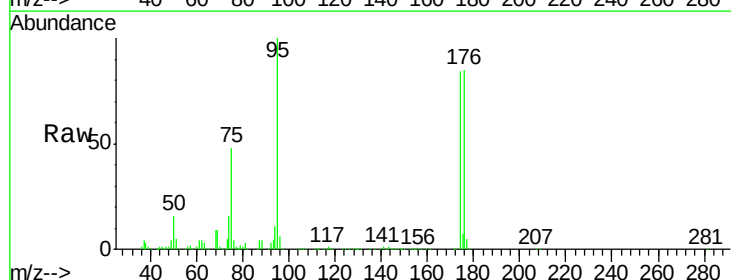
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

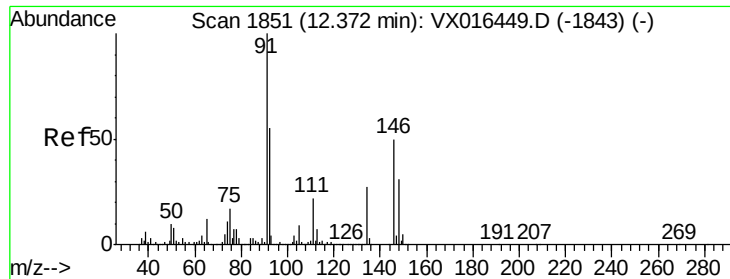
Tgt Ion: 75 Resp: 83004
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.3 63.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.45 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

Tgt Ion: 75 Resp: 83004
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.3 106.9#
 89 0.1 36.6 55.0#

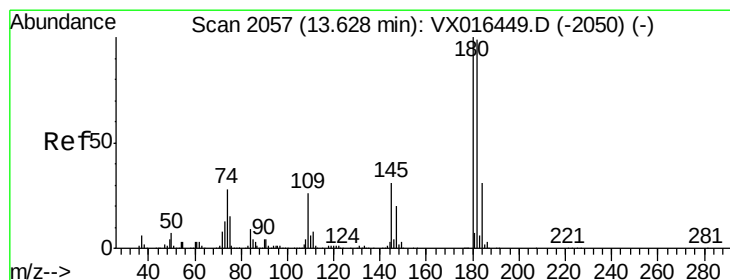
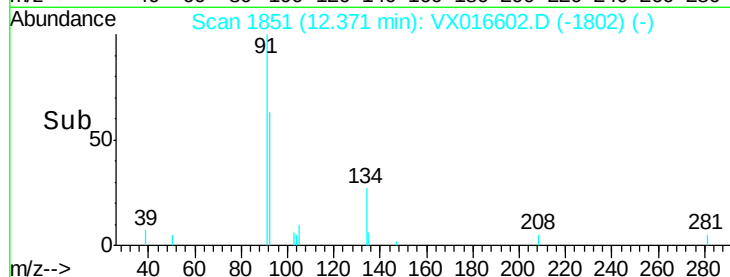
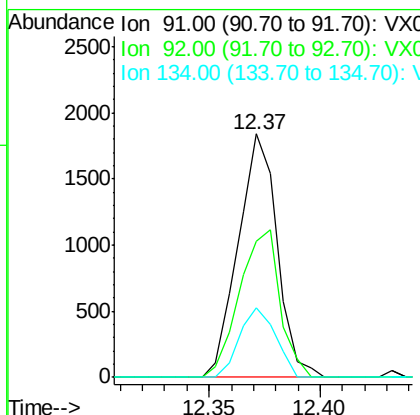
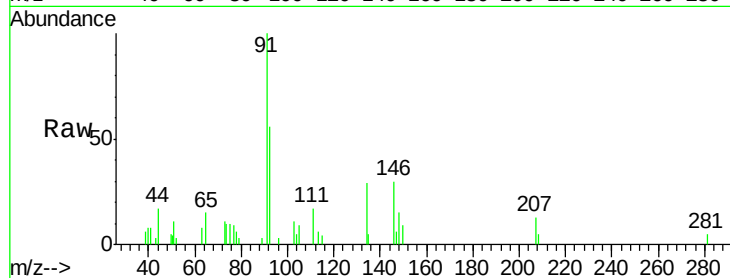




#89
n-Butylbenzene
Concen: 0.26 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

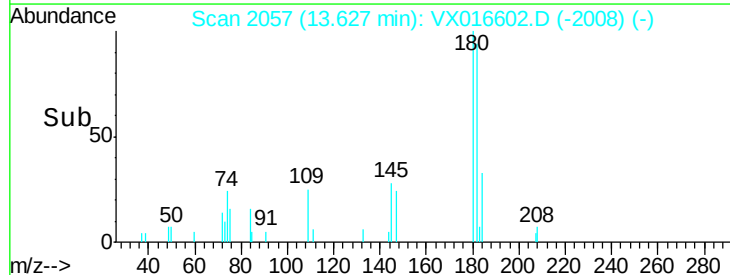
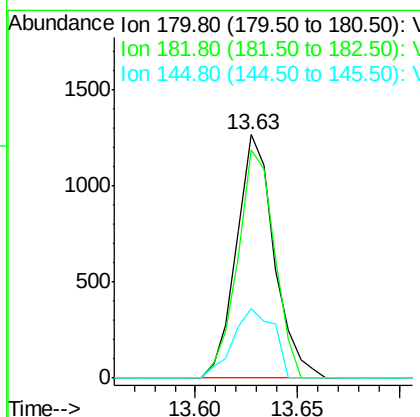
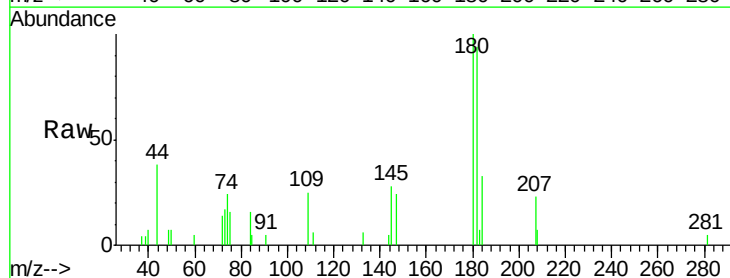
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

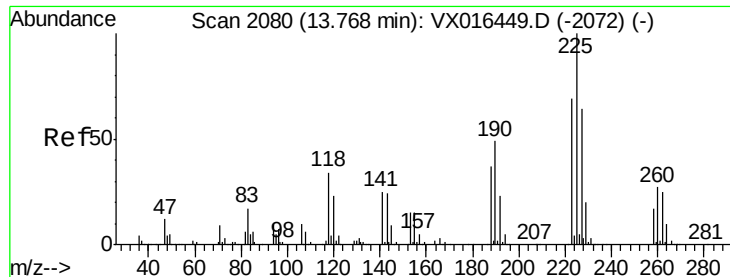
Tgt Ion: 91 Resp: 2249
Ion Ratio Lower Upper
91 100
92 62.8 27.2 81.5
134 26.5 13.1 39.3



#93
1,2,4-Trichlorobenzene
Concen: 0.45 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX016602.D
Acq: 05 Jun 2020 11:45

Tgt Ion: 180 Resp: 1630
Ion Ratio Lower Upper
180 100
182 91.2 48.3 144.8
145 30.7 15.4 46.2





#94

Hexachlorobutadiene

Concen: 0.80 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

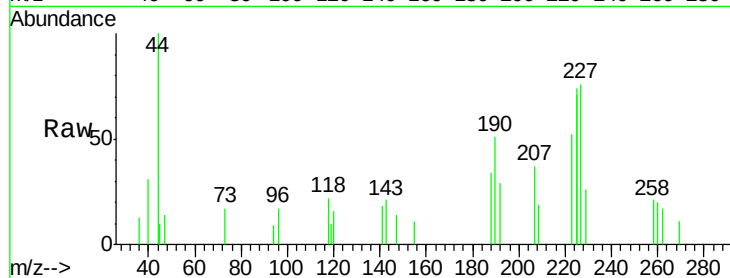
Tgt Ion:225 Resp: 1131

Ion Ratio Lower Upper

225 100

223 52.3 32.3 96.8

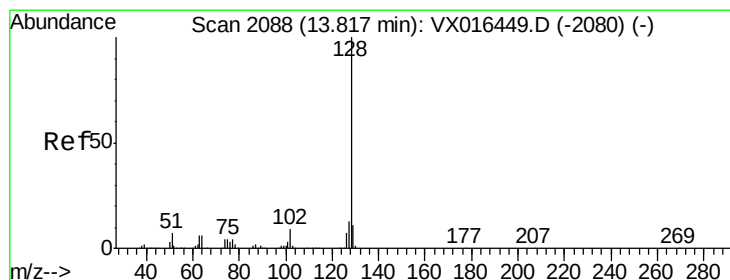
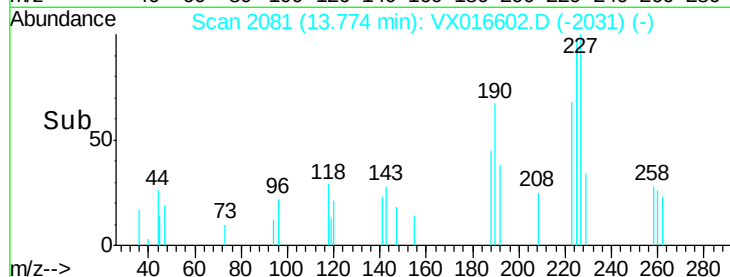
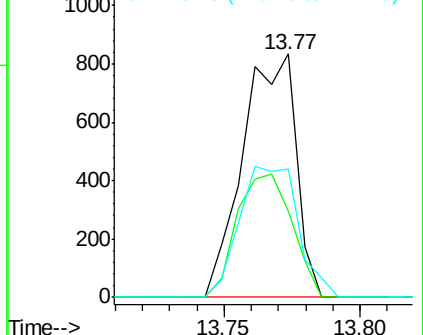
227 59.3 31.6 94.7



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



#95

Naphthalene

Concen: 0.27 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016602.D

Acq: 05 Jun 2020 11:45

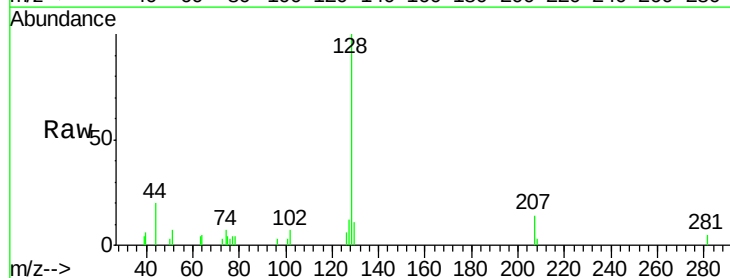
Tgt Ion:128 Resp: 3336

Ion Ratio Lower Upper

128 100

127 14.4 10.6 15.8

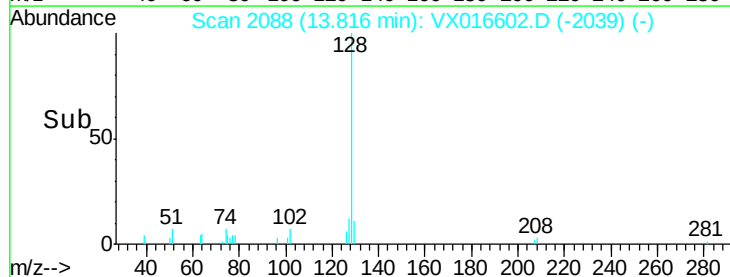
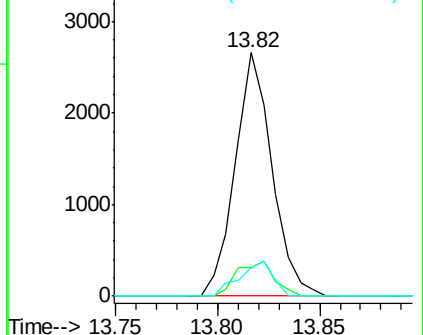
129 12.9 8.6 13.0

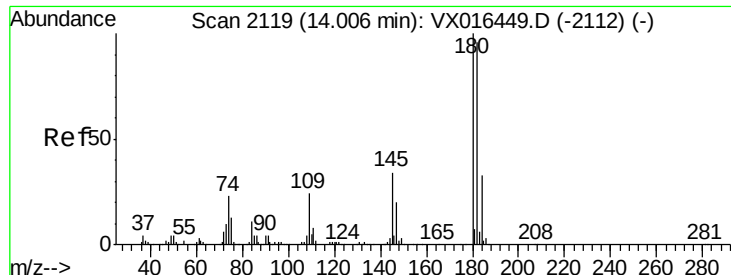


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

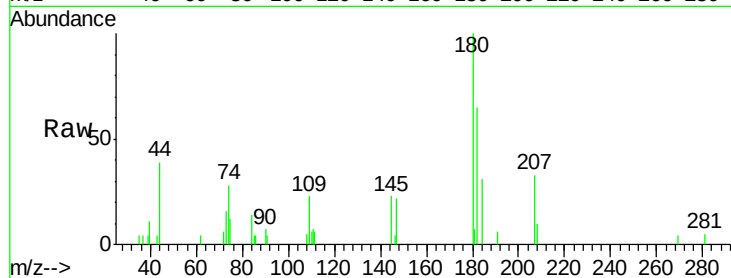




#96
 1,2,3-Trichlorobenzene
 Concen: 0.46 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX016602.D
 Acq: 05 Jun 2020 11:45

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.0	48.6	145.8
145	27.9	16.6	49.8



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

