

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072019\
 Data File : VX010997.D
 Acq On : 19 Jul 2019 13:07
 Operator : JC/SP
 Sample : K3917-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 20 01:00:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	348927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	320594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144233	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117613	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
35) Dibromofluoromethane	5.50	113	109474	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
50) Toluene-d8	8.71	98	416973	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	11.13	95	144020	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	

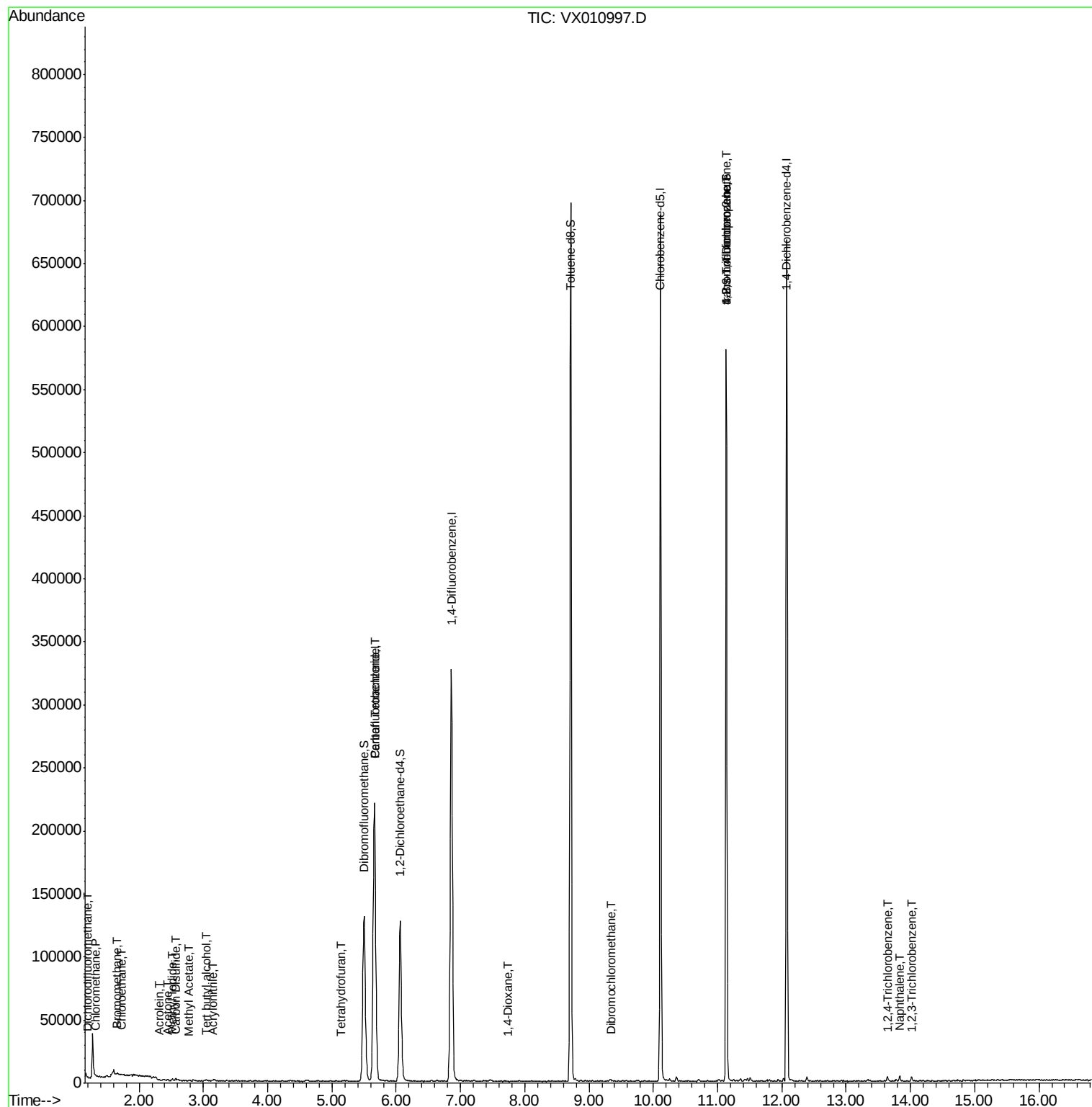
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	244	0.648	ug/l	79
3) Chloromethane	1.33	50	711	0.347	ug/l	89
5) Bromomethane	1.67	94	1055	0.896	ug/l #	48
6) Chloroethane	1.73	64	464	0.349	ug/l #	85
10) Methyl Iodide	2.52	142	1413	0.533	ug/l	94
11) Tert butyl alcohol	3.04	59	515	0.933	ug/l #	94
13) Acrolein	2.31	56	142	0.445	ug/l #	18
15) Acrylonitrile	3.16	53	476	0.427	ug/l	98
16) Acetone	2.44	43	1044	0.975	ug/l #	71
17) Carbon Disulfide	2.57	76	1686	0.331	ug/l #	92
18) Methyl Acetate	2.78	43	508	0.208	ug/l	95
29) Tetrahydrofuran	5.14	42	229	0.235	ug/l #	42
38) Carbon Tetrachloride	5.67	117	20527	6.873	ug/l #	18
49) 1,4-Dioxane	7.74	88	20	0.304	ug/l #	28
60) Dibromochloromethane	9.34	129	222	2.605	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	72511	27.859	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	72511	68.945	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	813	0.259	ug/l	95
95) Naphthalene	13.83	128	2565	0.277	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.02	180	822	0.264	ug/l	86

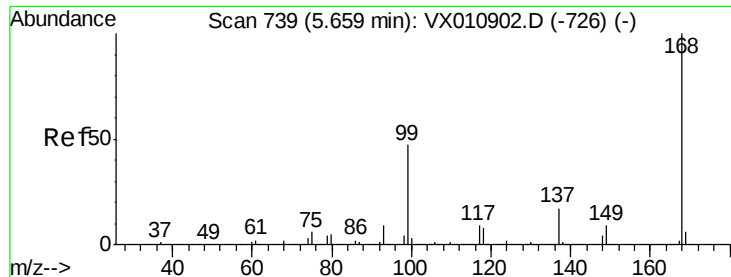
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

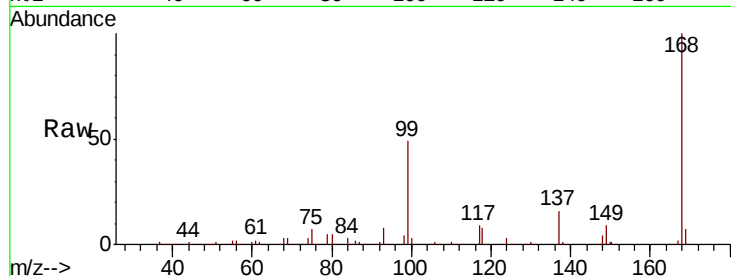
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 222855

Ion Ratio Lower Upper

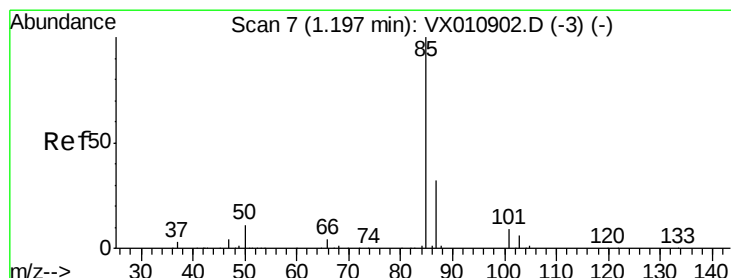
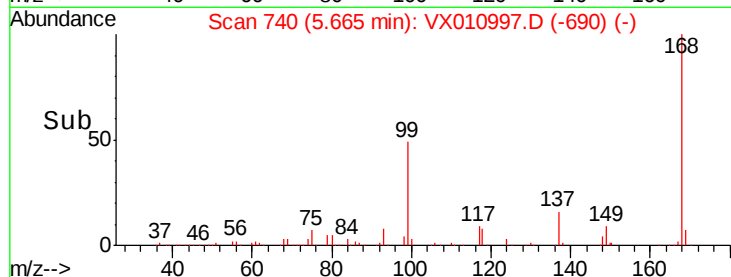
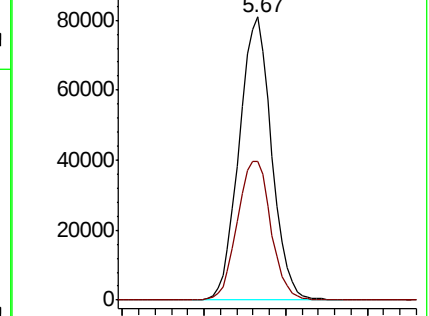
168 100

99 49.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.648 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX010997.D

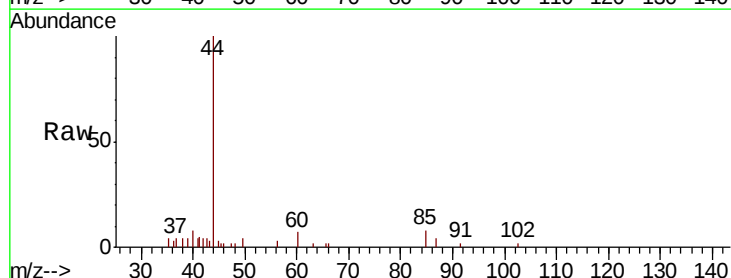
Acq: 19 Jul 2019 13:07

Tgt Ion: 85 Resp: 244

Ion Ratio Lower Upper

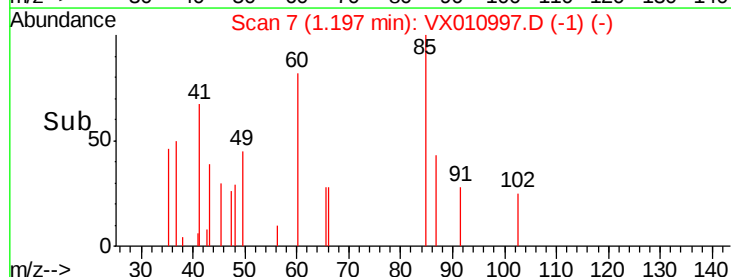
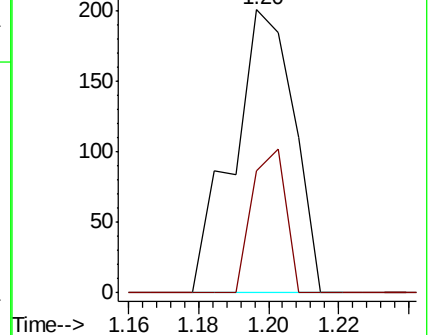
85 100

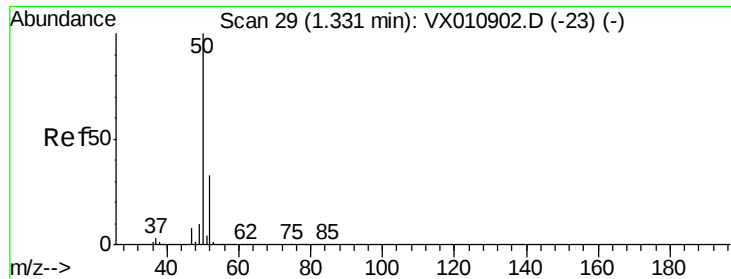
87 43.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.347 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

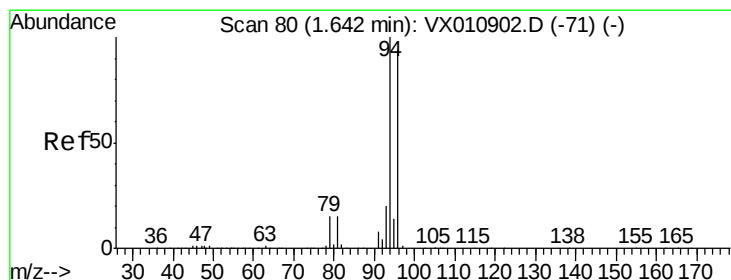
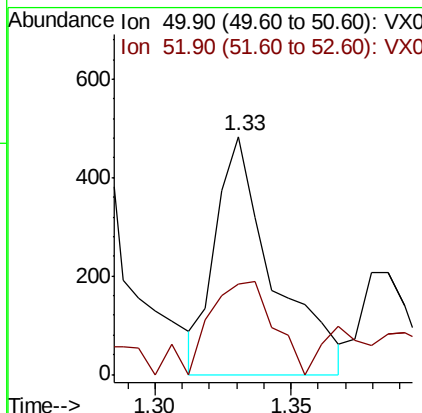
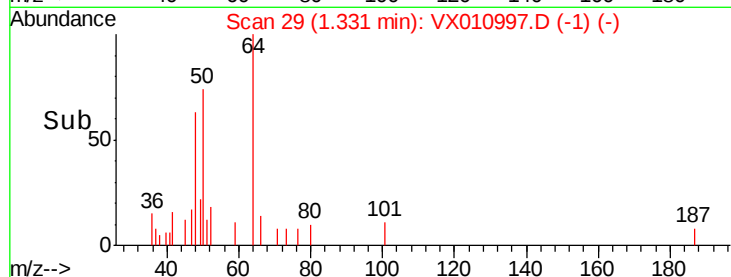
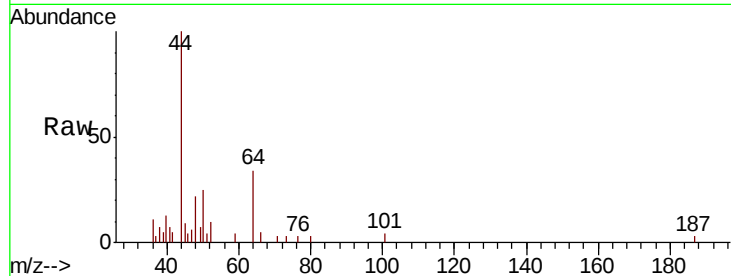
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 50 Resp: 711

Ion Ratio Lower Upper

50 100

52 27.0 26.4 39.6



#5

Bromomethane

Concen: 0.896 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX010997.D

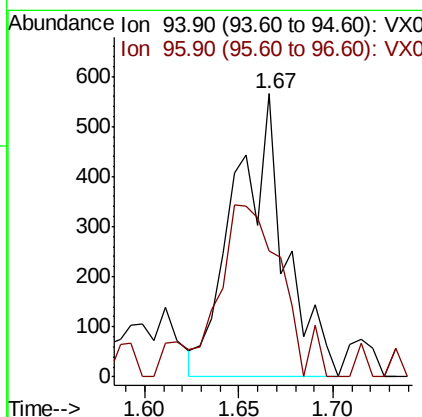
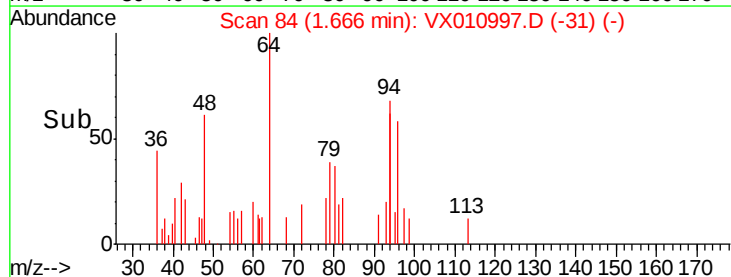
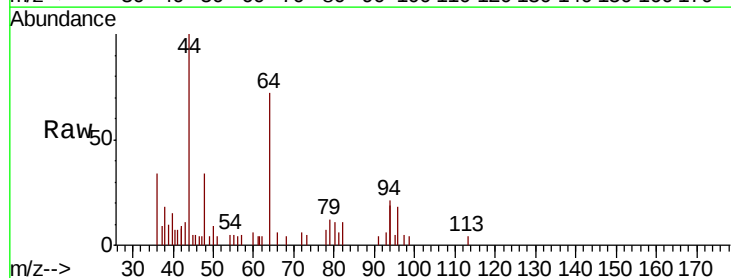
Acq: 19 Jul 2019 13:07

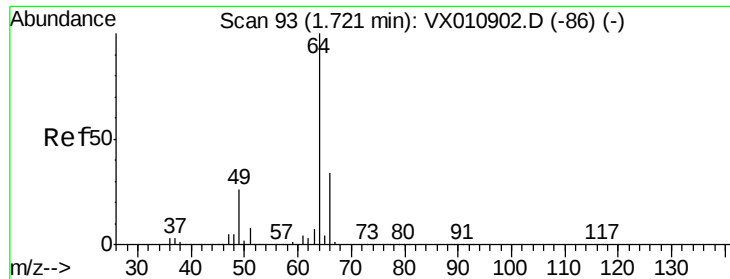
Tgt Ion: 94 Resp: 1055

Ion Ratio Lower Upper

94 100

96 44.4 75.6 113.4#





#6

Chloroethane

Concen: 0.349 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

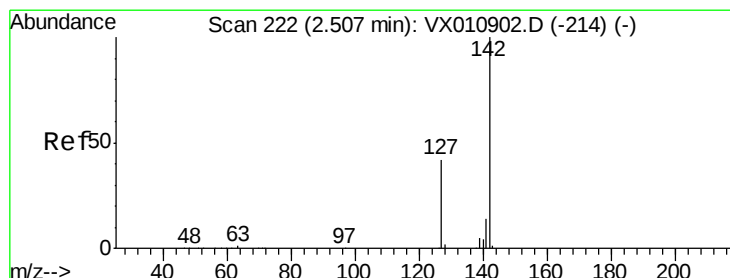
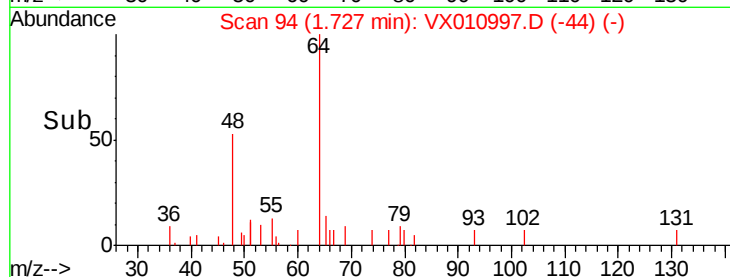
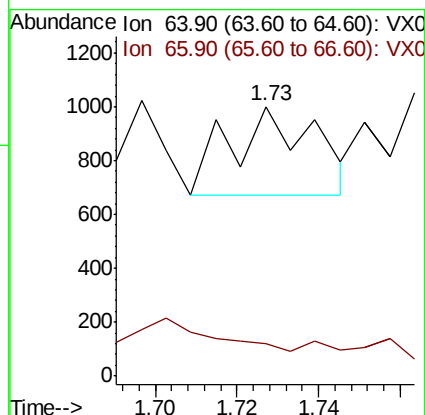
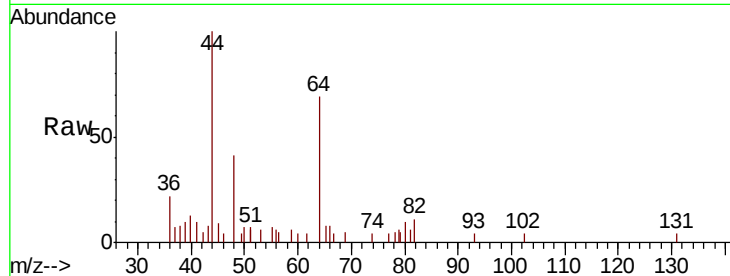
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 64 Resp: 464

Ion Ratio Lower Upper

64 100

66 25.4 27.0 40.6#



#10

Methyl Iodide

Concen: 0.533 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

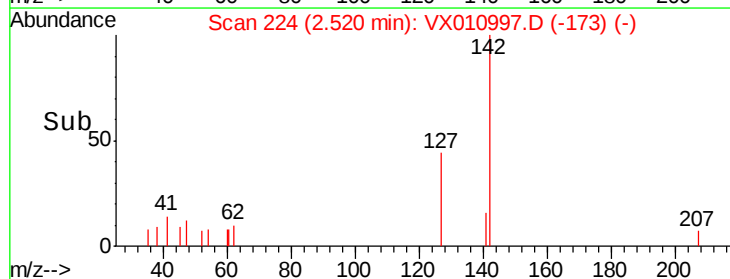
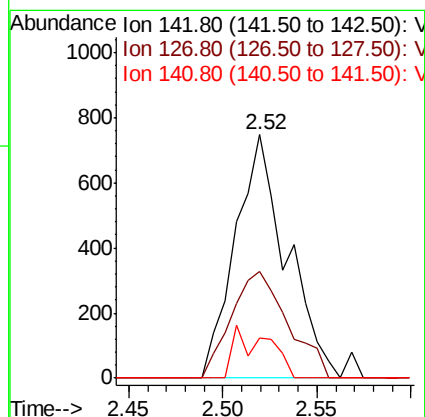
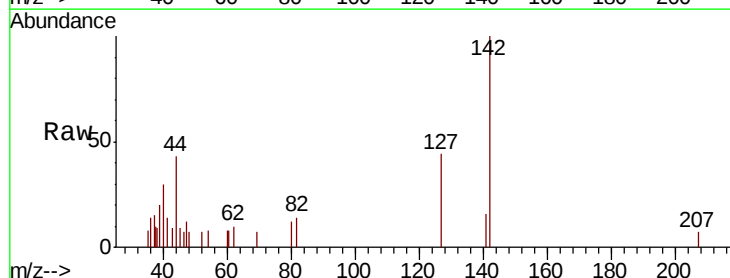
Tgt Ion: 142 Resp: 1413

Ion Ratio Lower Upper

142 100

127 48.2 34.2 51.4

141 14.3 11.7 17.5



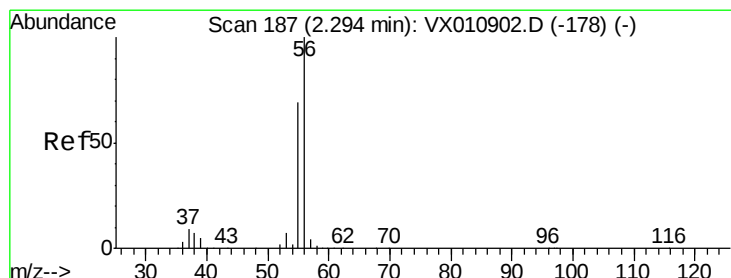
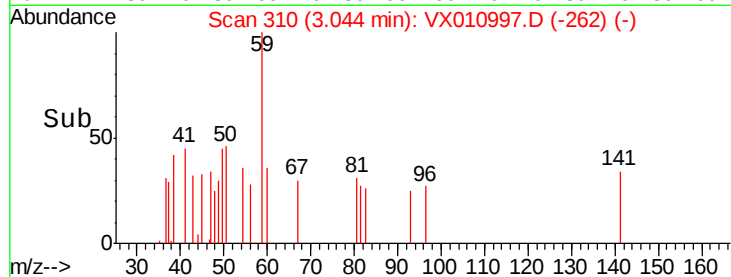
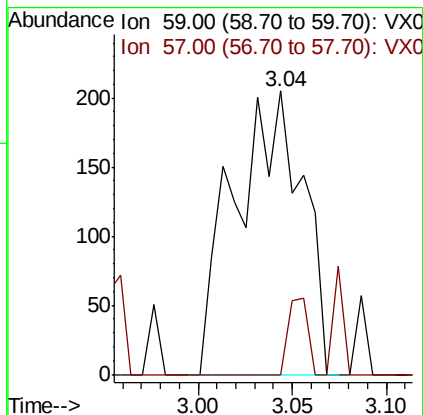
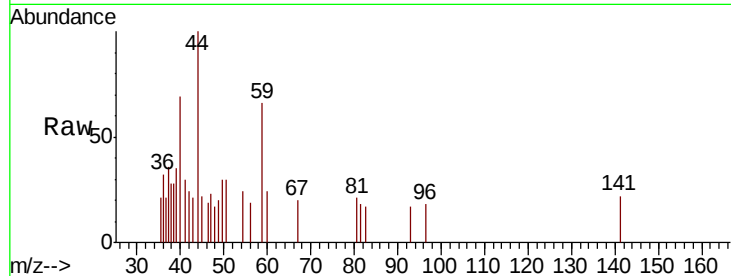


#11

Tert butvl alcohol
Concen: 0.933 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

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

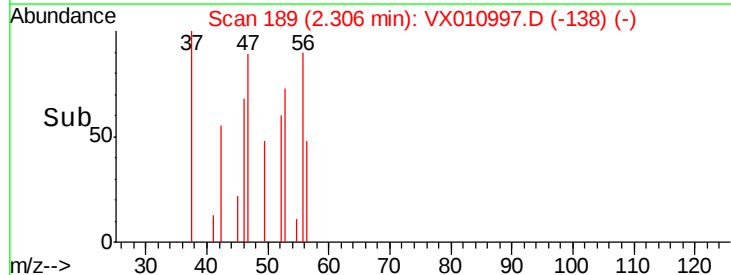
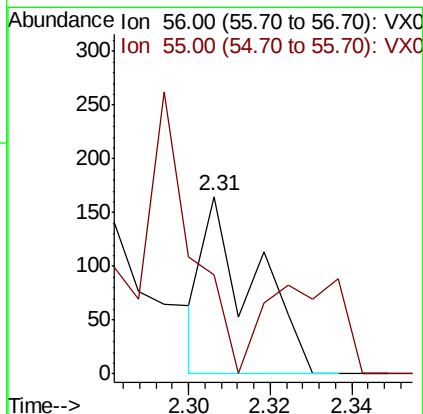
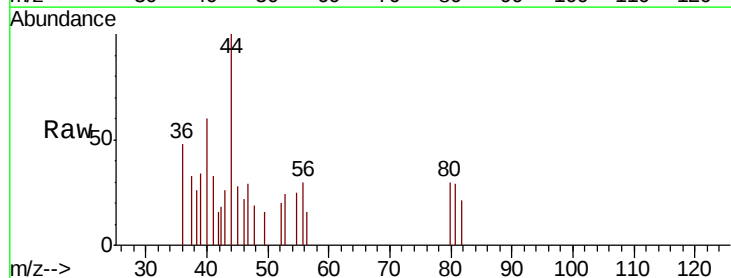
Tot Ion: 59 Resp: 515
Ion Ratio Lower Upper
59 100
57 7.8 7.9 11.9#

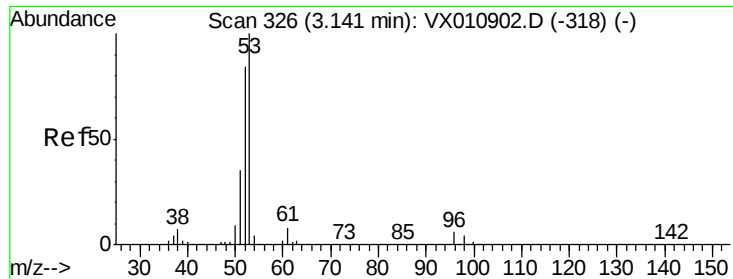


#13

Acrolein
Concen: 0.445 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 137.3 55.9 83.9#





#15

Acrylonitrile

Concen: 0.427 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

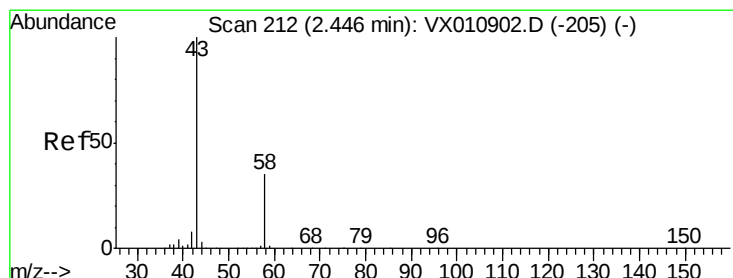
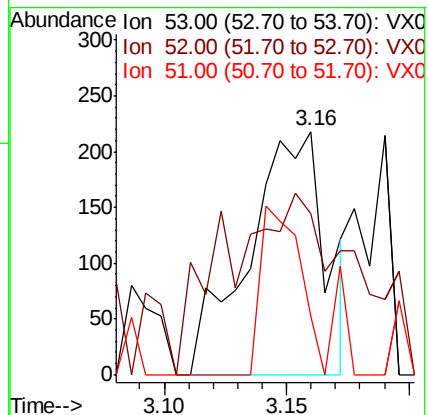
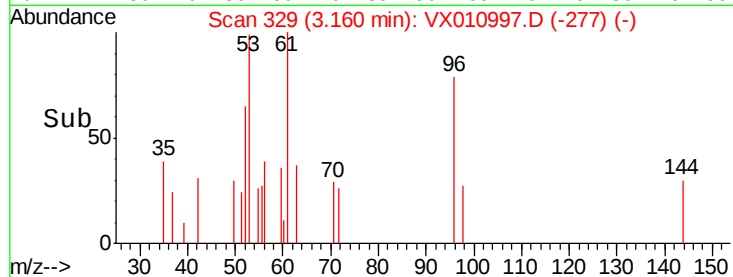
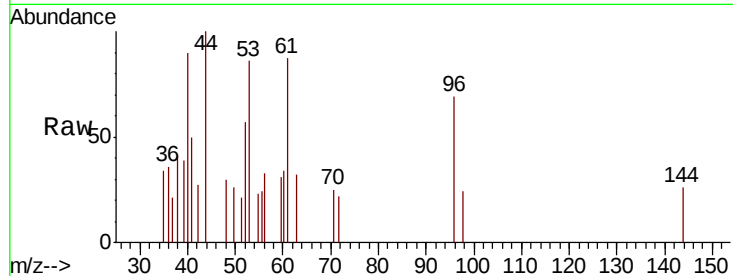
Tot Ion: 53 Resp: 476

Ion Ratio Lower Upper

53 100

52 85.7 66.5 99.7

51 35.9 28.2 42.4



#16

Acetone

Concen: 0.975 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010997.D

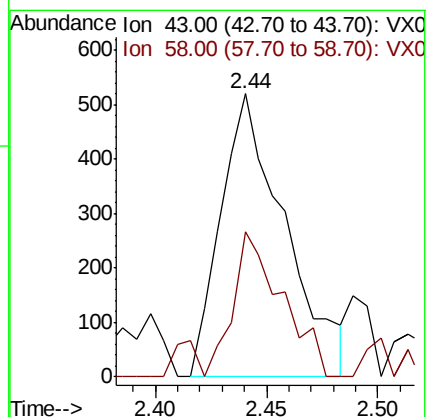
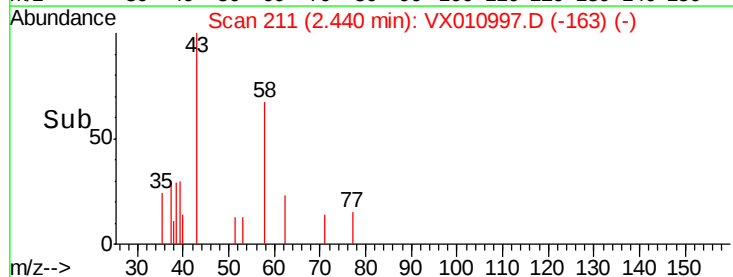
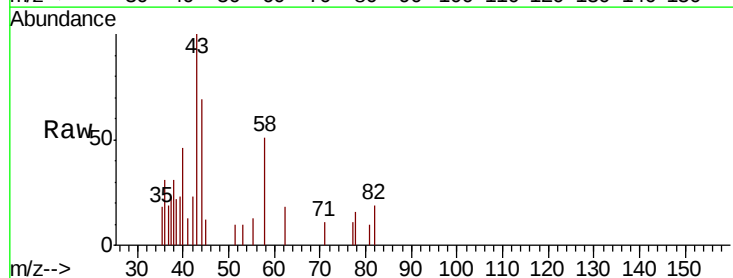
Acq: 19 Jul 2019 13:07

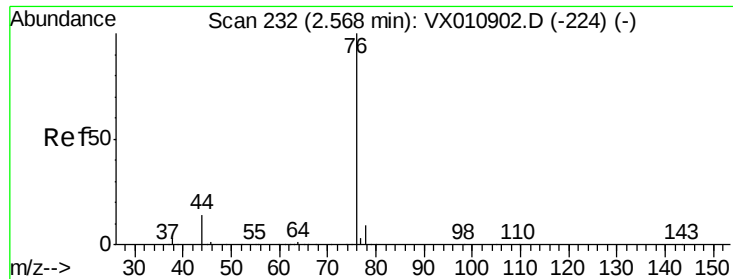
Tgt Ion: 43 Resp: 1044

Ion Ratio Lower Upper

43 100

58 51.3 27.7 41.5#





#17

Carbon Disulfide

Concen: 0.331 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

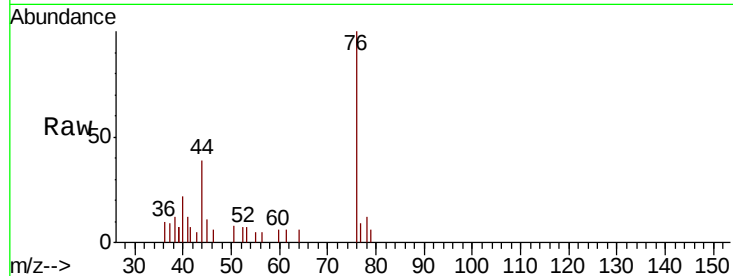
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 76 Resp: 1686

Ion Ratio Lower Upper

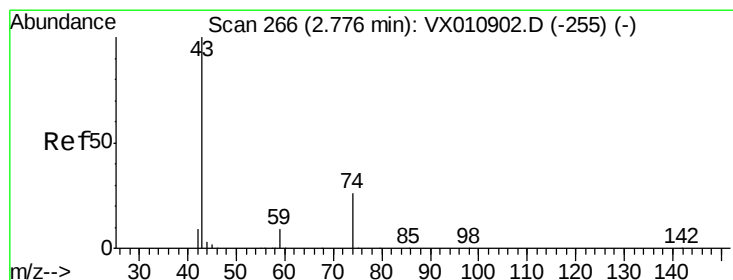
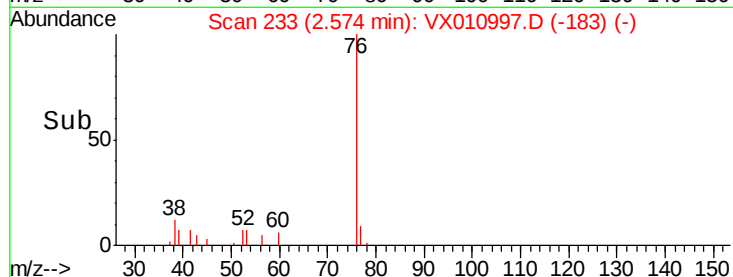
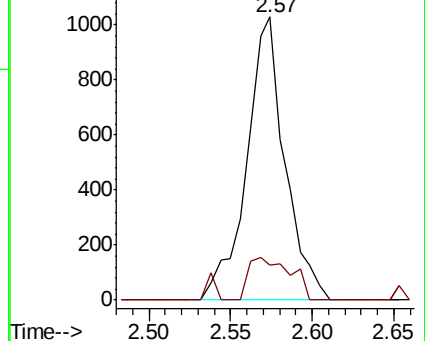
76 100

78 12.3 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.208 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010997.D

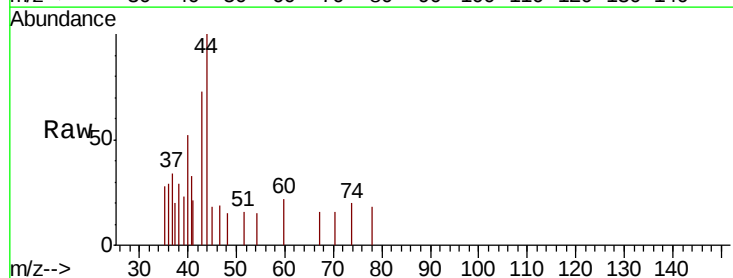
Acq: 19 Jul 2019 13:07

Tgt Ion: 43 Resp: 508

Ion Ratio Lower Upper

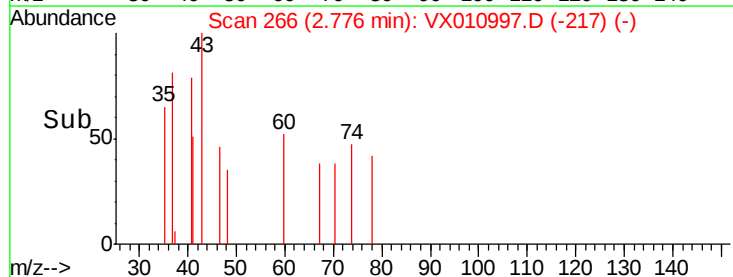
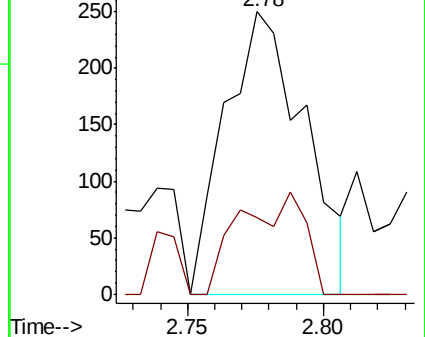
43 100

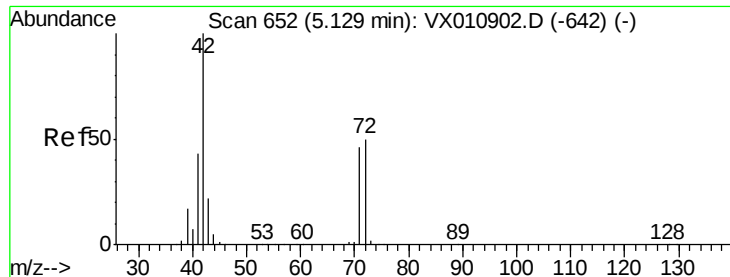
74 29.3 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#29

Tetrahydrofuran

Concen: 0.235 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

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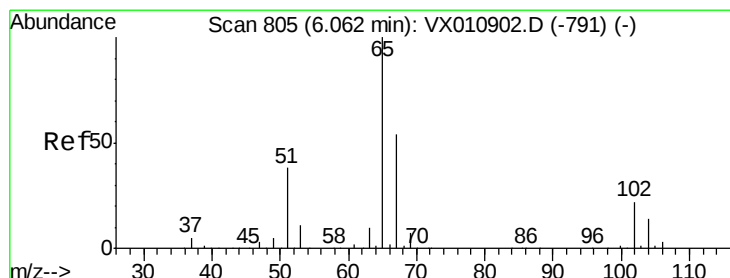
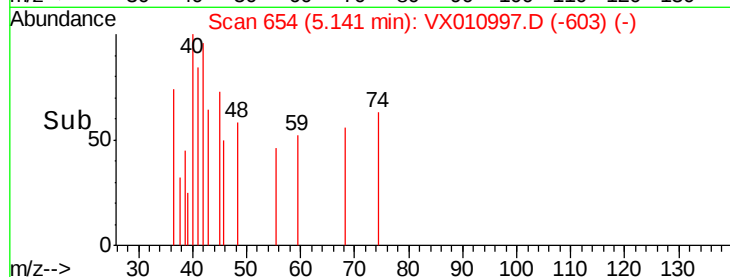
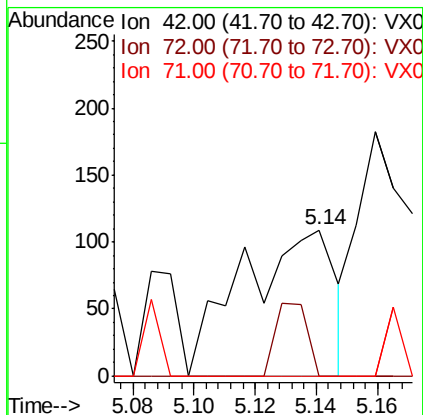
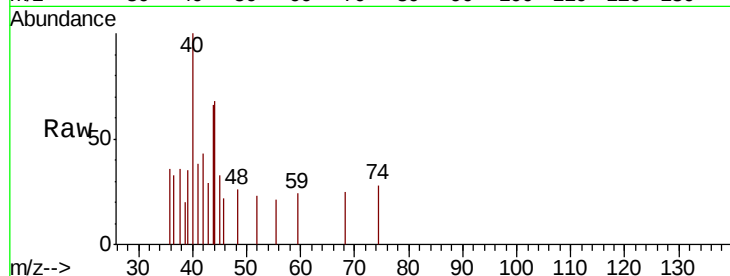
Tot Ion: 42 Resp: 229

Ion Ratio Lower Upper

42 100

72 17.0 39.8 59.8#

71 0.0 37.0 55.4#



#33

1,2-Dichloroethane-d4

Concen: 49.608 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010997.D

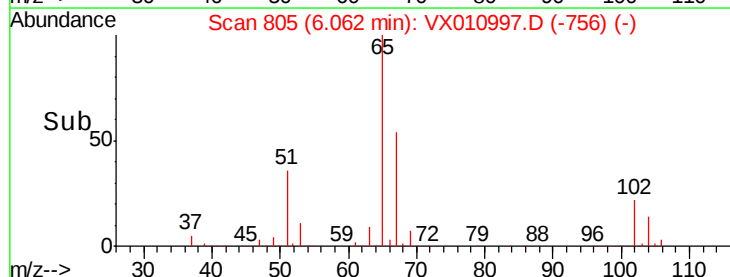
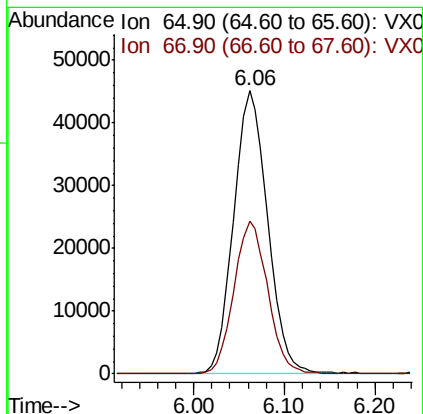
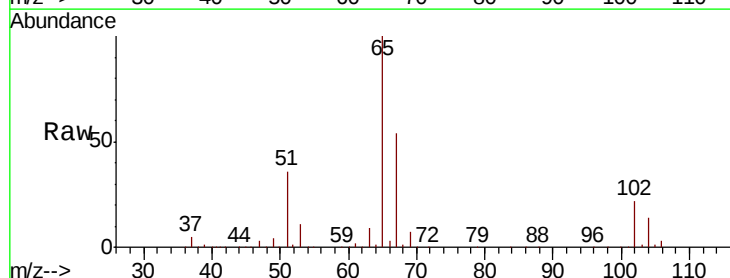
Acq: 19 Jul 2019 13:07

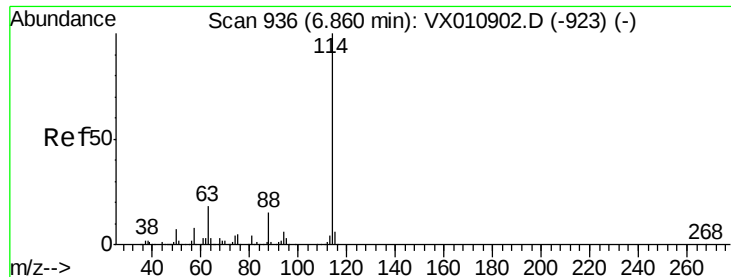
Tgt Ion: 65 Resp: 117613

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

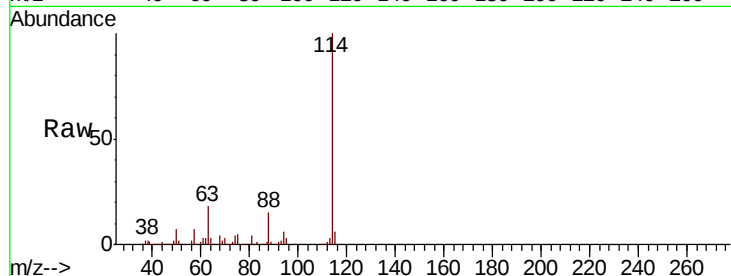
Tot Ion:114 Resp: 348927

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

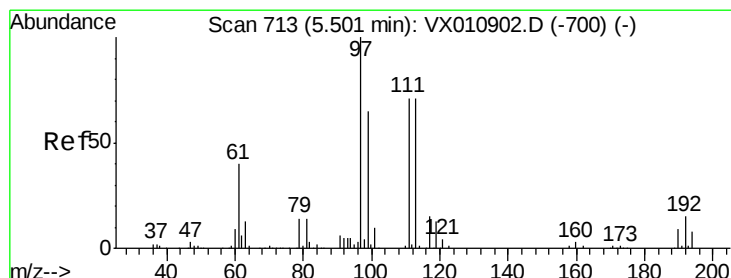
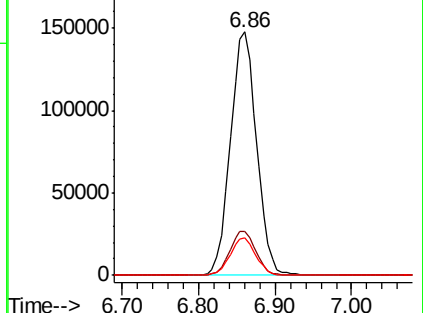
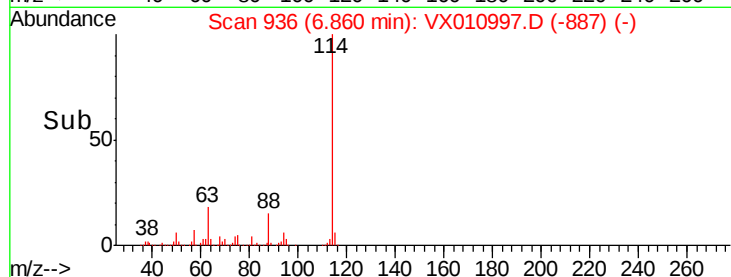
88 15.5 0.0 29.8



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



#35

Dibromofluoromethane

Concen: 49.430 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

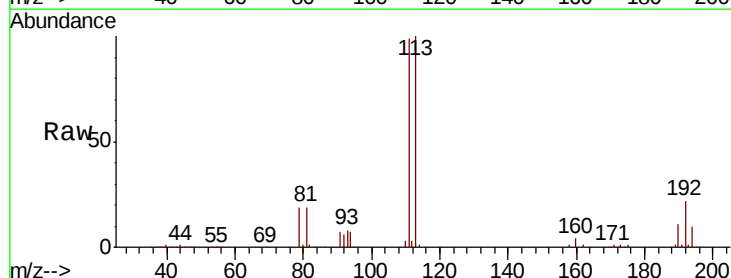
Tgt Ion:113 Resp: 109474

Ion Ratio Lower Upper

113 100

111 101.0 82.3 123.5

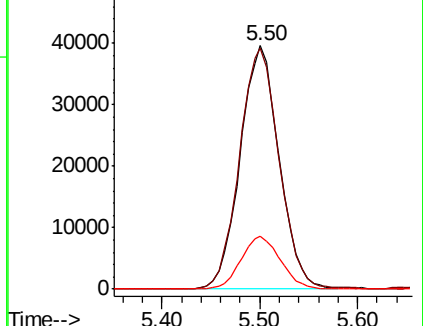
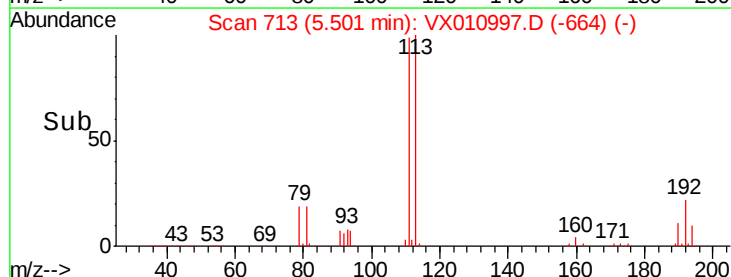
192 22.1 17.4 26.2

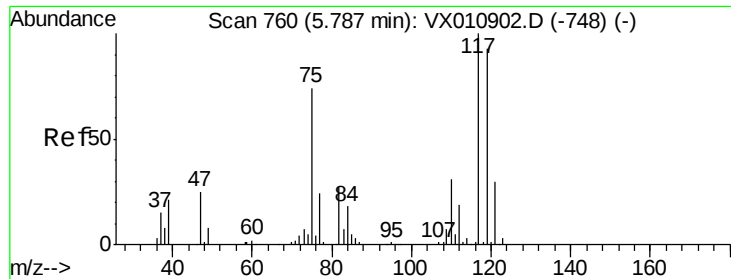


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

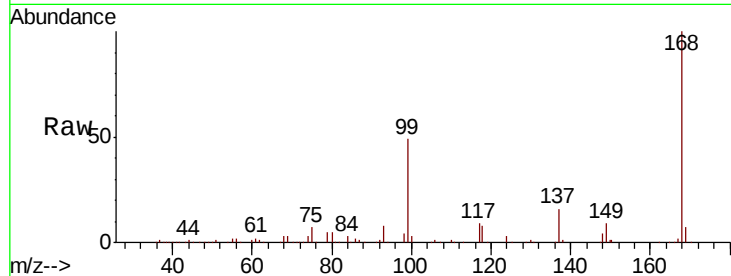




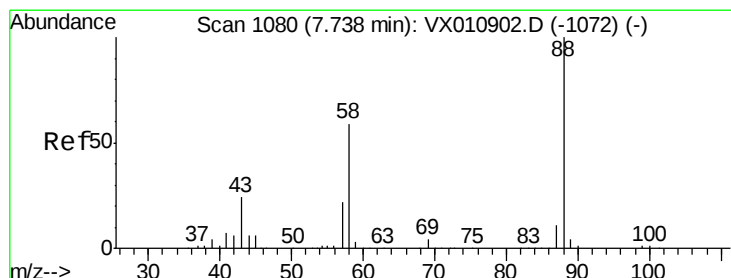
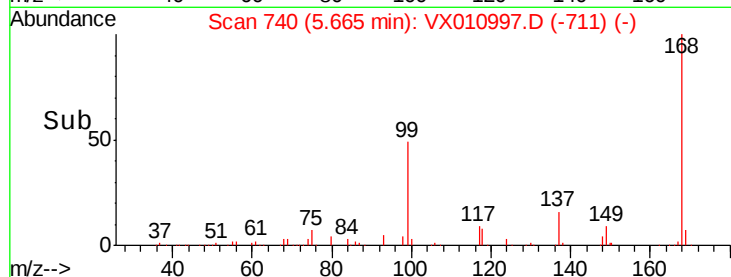
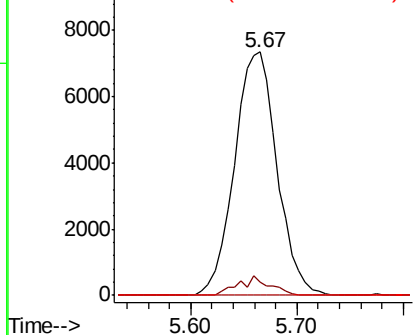
#38
Carbon Tetrachloride
Concen: 6.873 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

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

Tot Ion:117 Resp: 20527
Ion Ratio Lower Upper
117 100
119 5.5 74.2 111.2#
121 0.0 24.2 36.2#

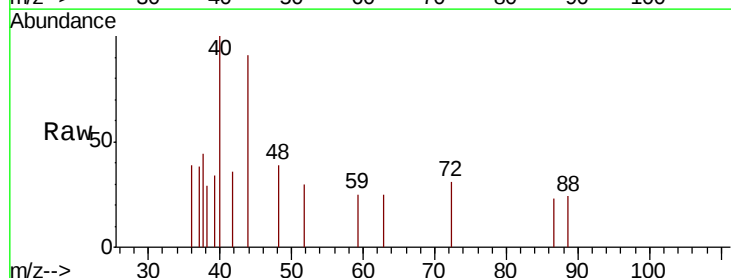


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

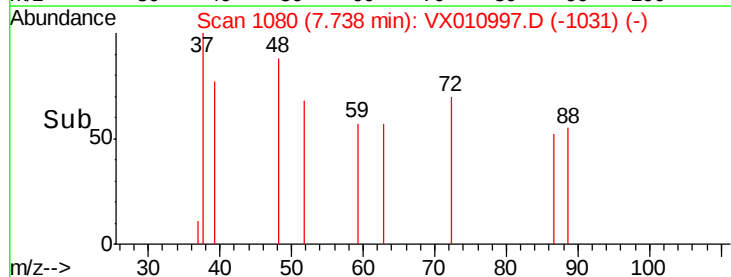
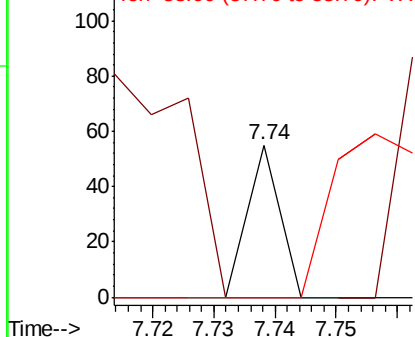


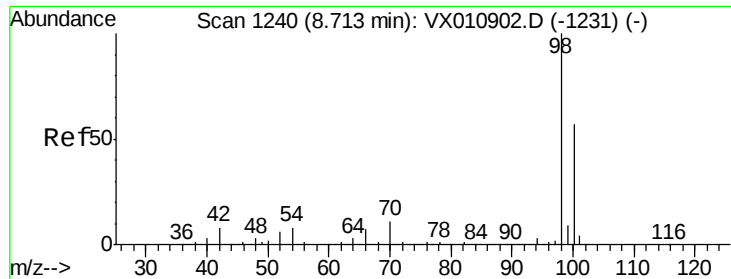
#49
1,4-Dioxane
Concen: 0.304 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#



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

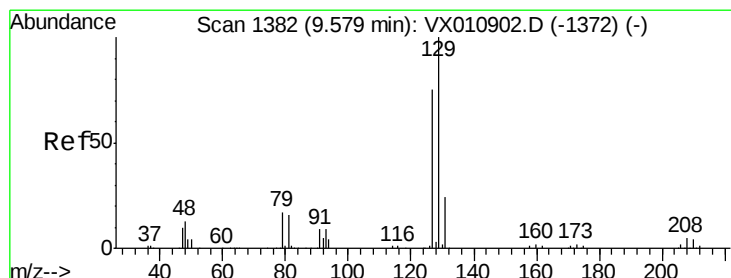
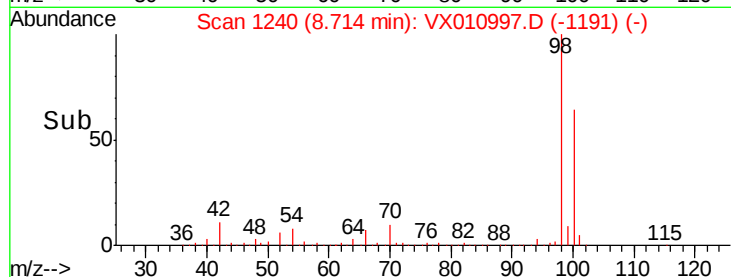
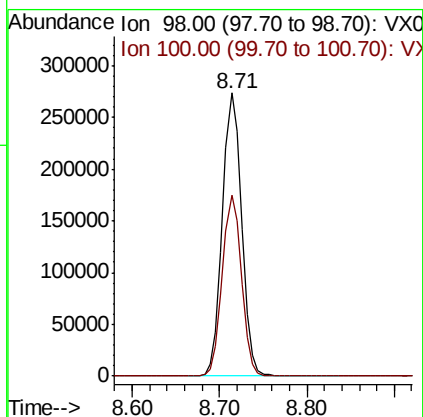
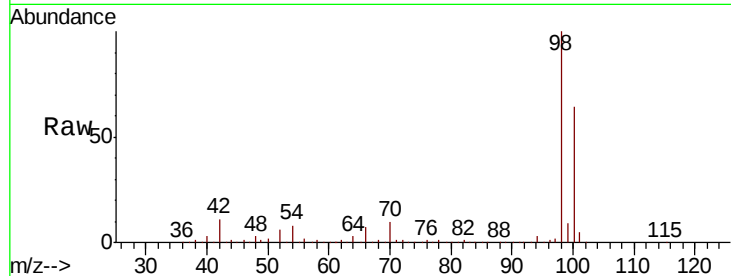




#50
Toluene-d8
Concen: 50.198 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

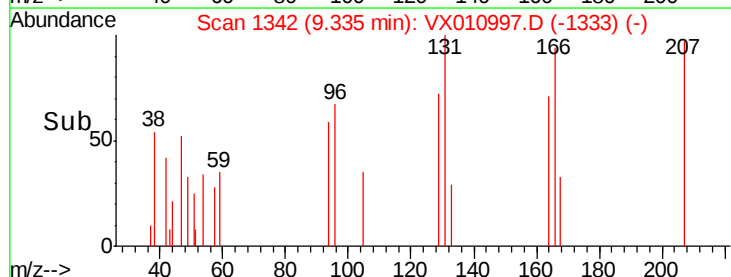
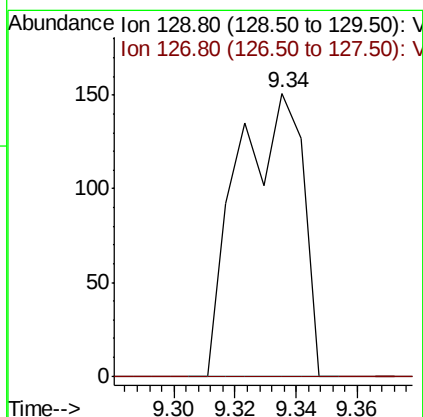
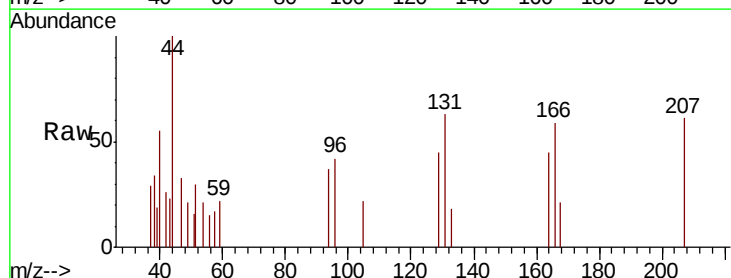
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

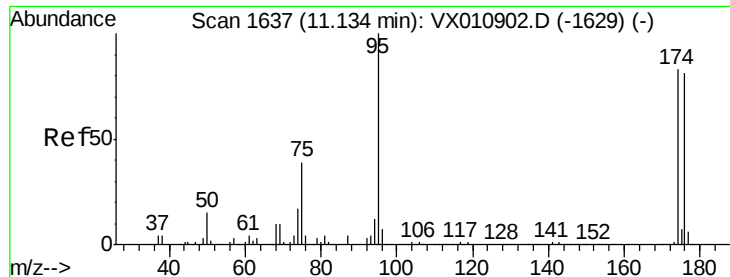
Tot Ion: 98 Resp: 416973
Ion Ratio Lower Upper
98 100
100 63.7 50.6 75.8



#60
Dibromochloromethane
Concen: 2.605 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

Tgt Ion: 129 Resp: 222
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 47.169 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

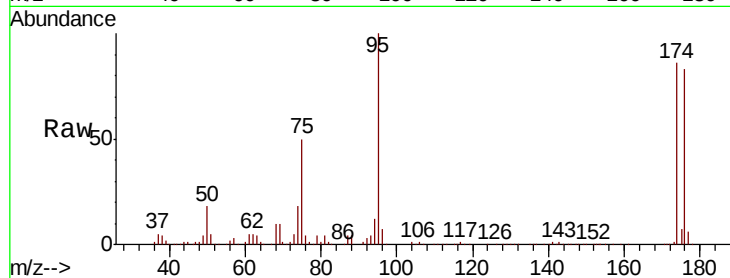
Tot Ion: 95 Resp: 144020

Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.6

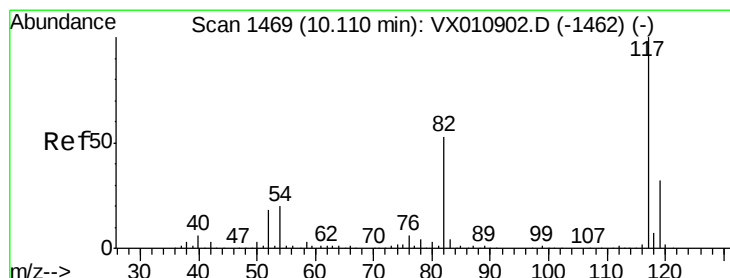
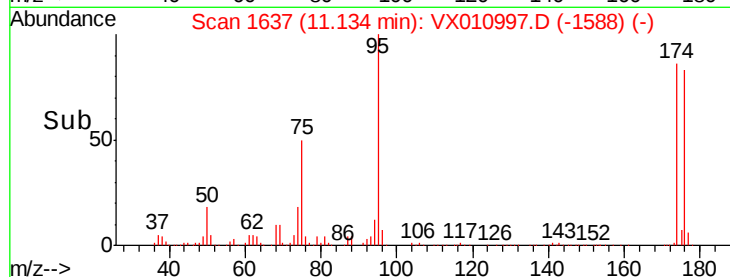
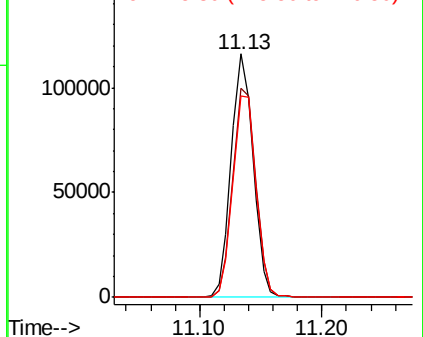
176 87.6 0.0 173.8



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

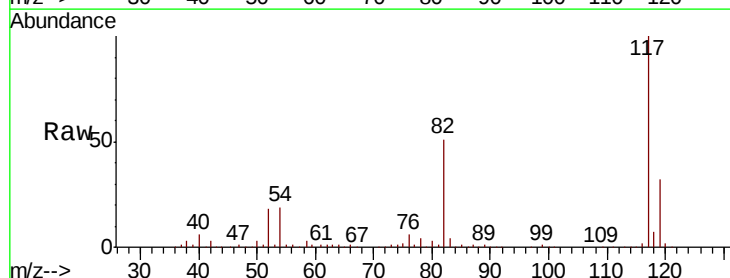
Tgt Ion: 117 Resp: 320594

Ion Ratio Lower Upper

117 100

82 51.3 42.6 63.8

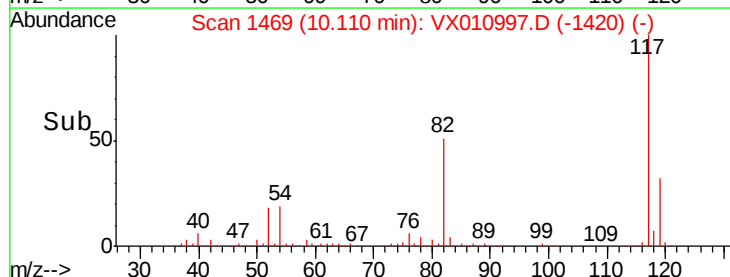
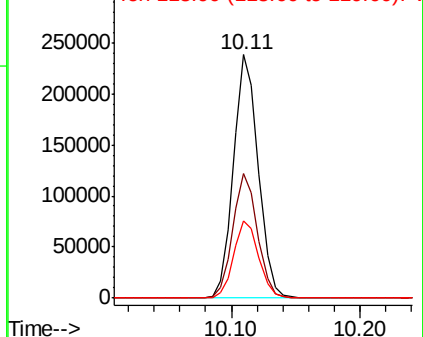
119 31.6 25.9 38.9

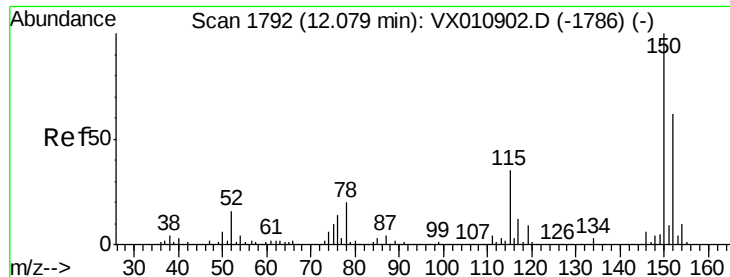


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

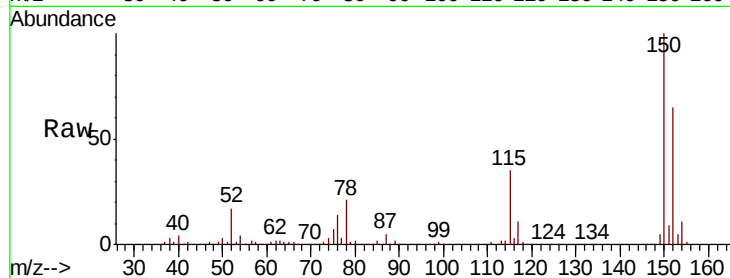
Tot Ion:152 Resp: 144233

Ion Ratio Lower Upper

152 100

115 55.5 39.7 119.1

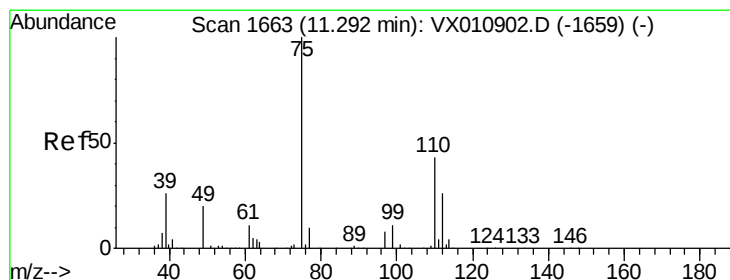
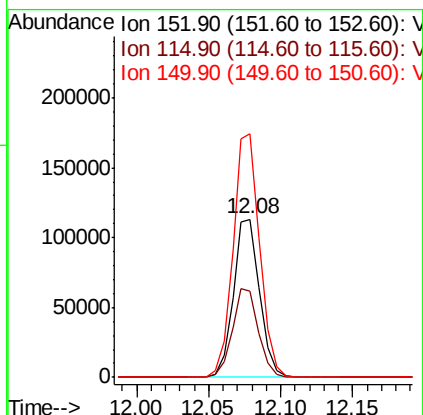
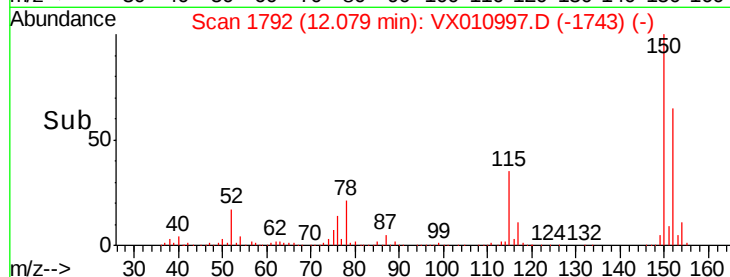
150 155.6 0.0 345.6



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: 27.859 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010997.D

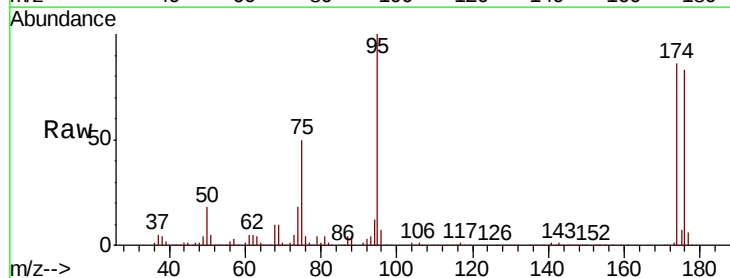
Acq: 19 Jul 2019 13:07

Tgt Ion: 75 Resp: 72511

Ion Ratio Lower Upper

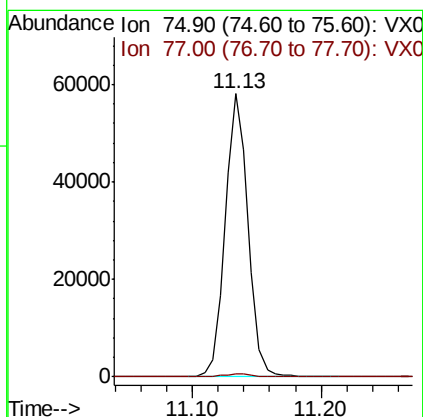
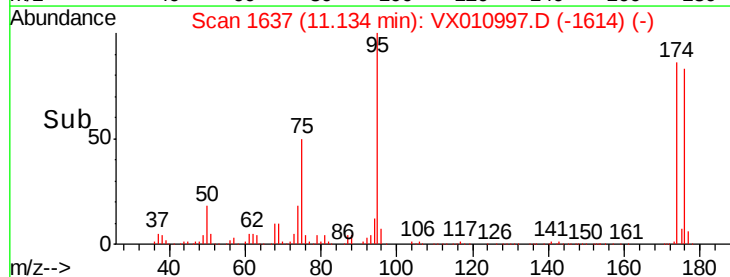
75 100

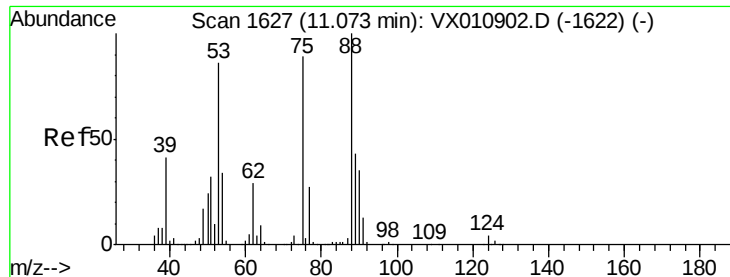
77 1.4 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

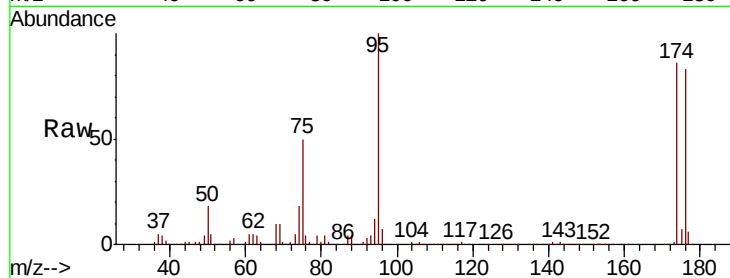




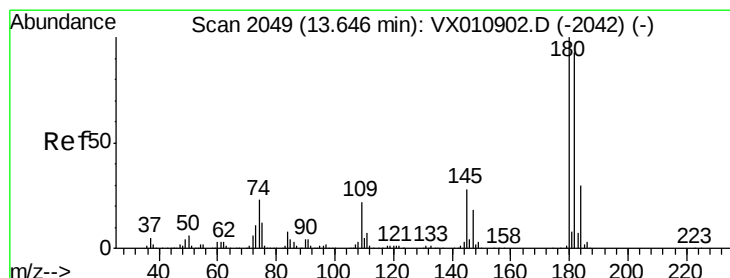
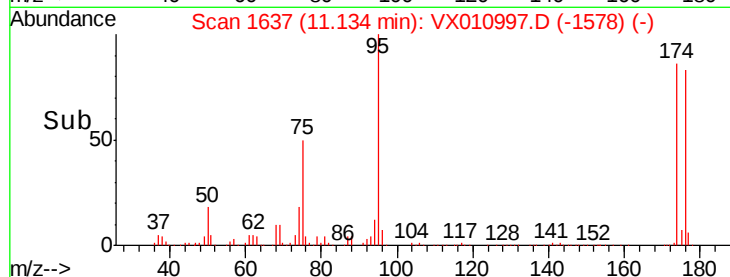
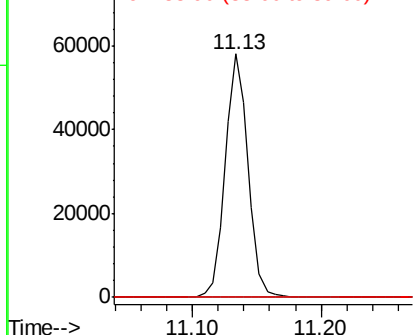
#81
trans-1,4-Dichloro-2-butene
Concen: 68.945 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

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

Tot Ion: 75 Resp: 72511
Ion Ratio Lower Upper
75 100
53 0.1 76.7 115.1#
89 0.0 38.5 57.7#

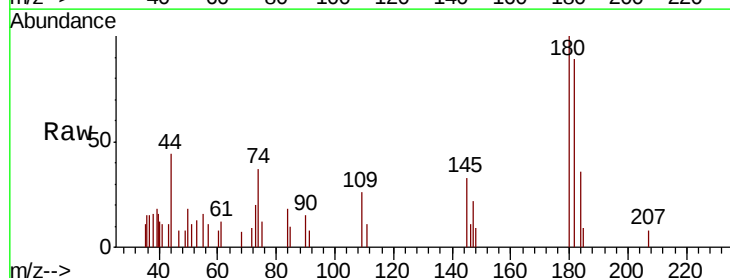


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

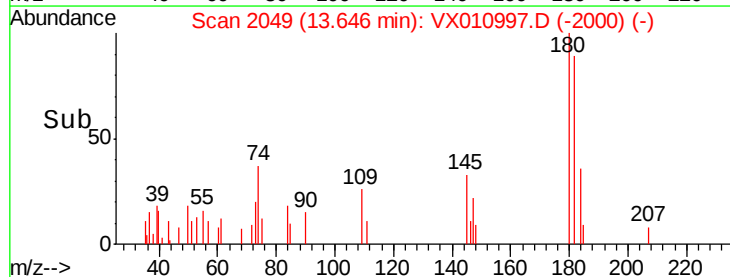
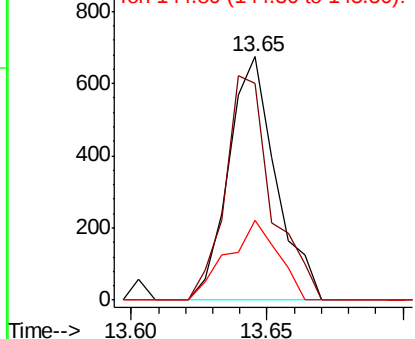


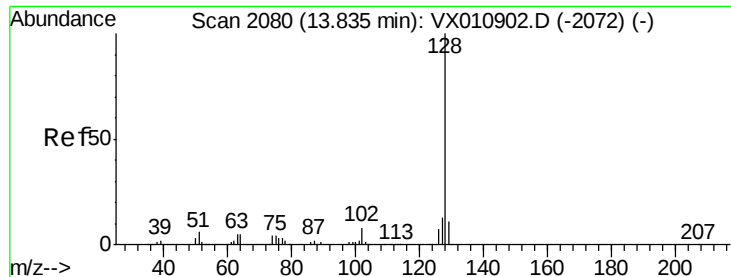
#93
1,2,4-Trichlorobenzene
Concen: 0.259 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX010997.D
Acq: 19 Jul 2019 13:07

Tgt Ion: 180 Resp: 813
Ion Ratio Lower Upper
180 100
182 91.3 47.1 141.3
145 35.1 14.8 44.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.277 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

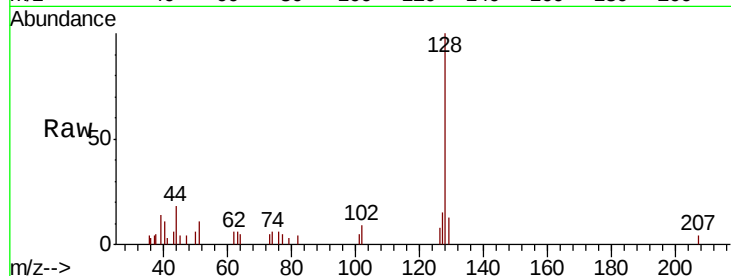
Tot Ion:128 Resp: 2565

Ion Ratio Lower Upper

128 100

127 16.6 10.4 15.6#

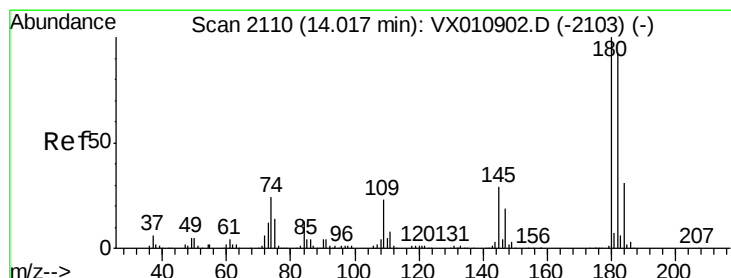
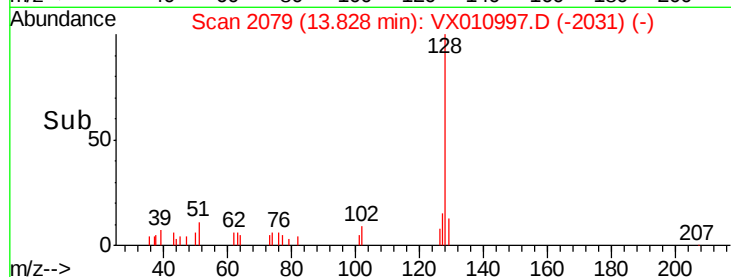
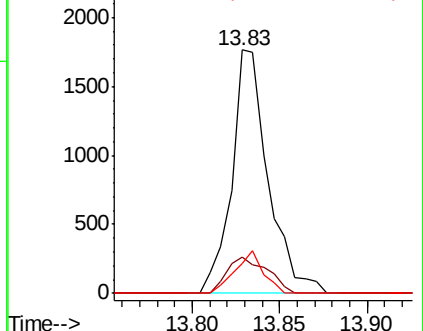
129 13.4 8.9 13.3#



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: 0.264 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX010997.D

Acq: 19 Jul 2019 13:07

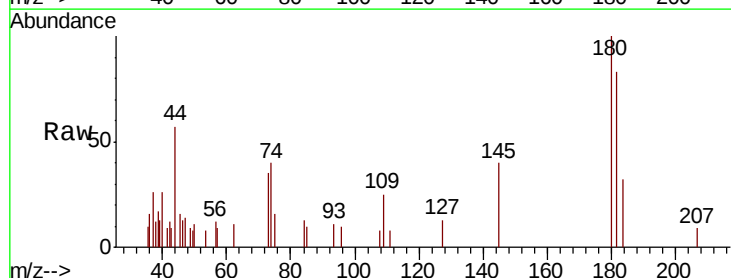
Tgt Ion:180 Resp: 822

Ion Ratio Lower Upper

180 100

182 78.7 47.4 142.3

145 32.5 15.1 45.3



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

