

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005165.D
 Acq On : 09 Oct 2018 18:02
 Operator : JC/MD
 Sample : J5291-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Oct 10 05:53:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	184725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	288378	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	288210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	160510	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	142174	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
35) Dibromofluoromethane	5.50	113	118653	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.72	98	419023	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.14	95	151966	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	

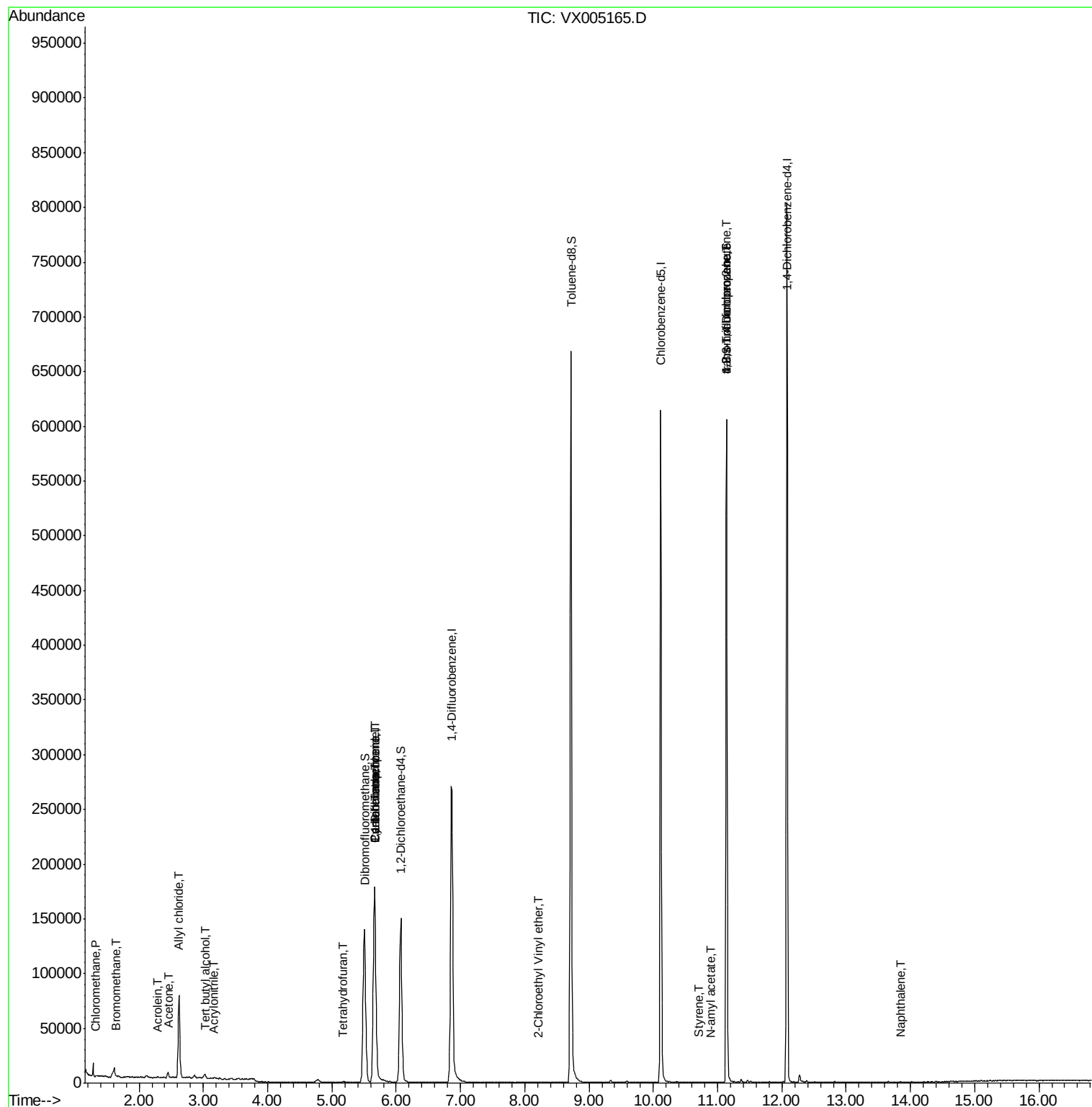
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	824	0.270	ug/l	95
5) Bromomethane	1.64	94	435	0.256	ug/l	84
6) Chloroethane	1.77	64	2106	Below Cal	#	69
11) Tert butyl alcohol	3.03	59	2336	3.166	ug/l #	76
13) Acrolein	2.29	56	170	0.324	ug/l #	21
14) Allyl chloride	2.62	41	7670	1.756	ug/l #	59
15) Acrylonitrile	3.16	53	348	0.214	ug/l #	79
16) Acetone	2.45	43	5501	3.571	ug/l	94
20) Methylene Chloride	2.86	84	988	Below Cal		94
29) Tetrahydrofuran	5.16	42	389	0.276	ug/l #	79
31) Cyclohexane	5.66	56	3617	1.077	ug/l #	19
36) 1,1-Dichloropropene	5.67	75	12339	3.700	ug/l #	46
38) Carbon Tetrachloride	5.67	117	17079	4.872	ug/l #	18
58) 2-Chloroethyl Vinyl ether	8.21	63	19	14.250	ug/l #	49
70) Styrene	10.71	104	75	2.150	ug/l #	58
74) N-amyl acetate	10.90	43	49	1.756	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	75796	21.068	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	106	Below Cal		81
81) trans-1,4-Dichloro-2-buten	11.14	75	75796	57.165	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	223	Below Cal		93
95) Naphthalene	13.84	128	281	0.740	ug/l #	83

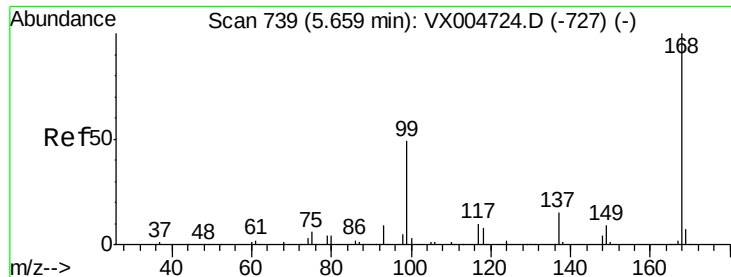
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

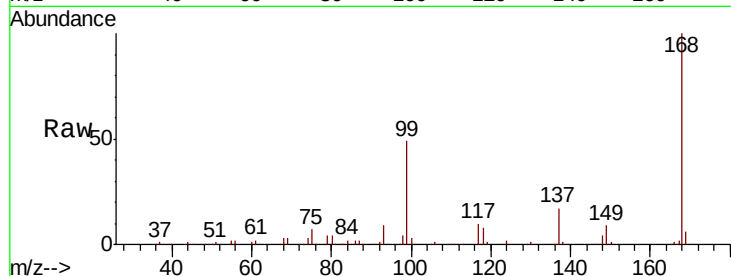
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 184725

Ion Ratio Lower Upper

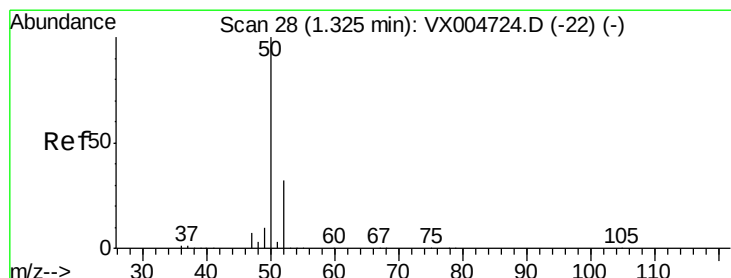
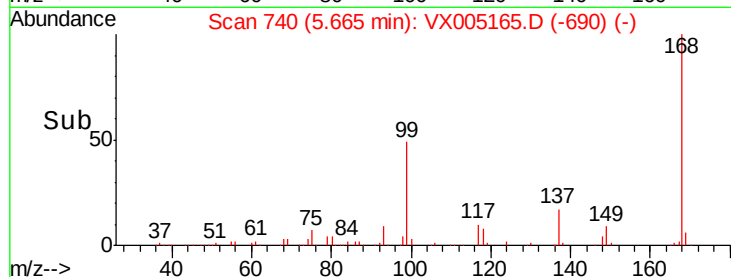
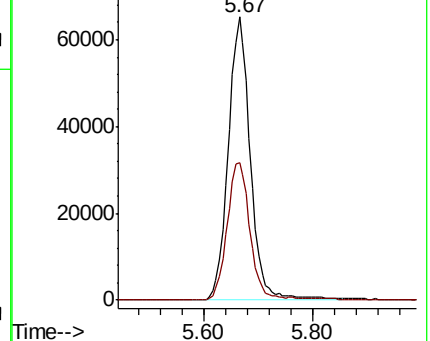
168 100

99 48.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.270 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005165.D

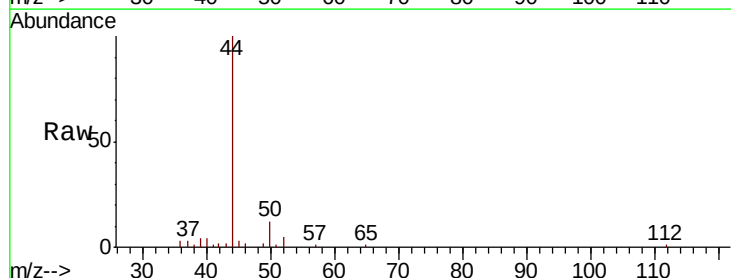
Acq: 09 Oct 2018 18:02

Tgt Ion: 50 Resp: 824

Ion Ratio Lower Upper

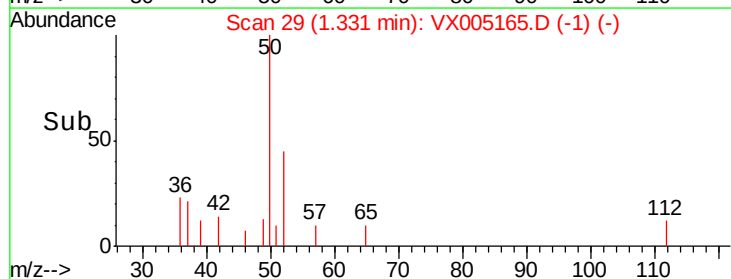
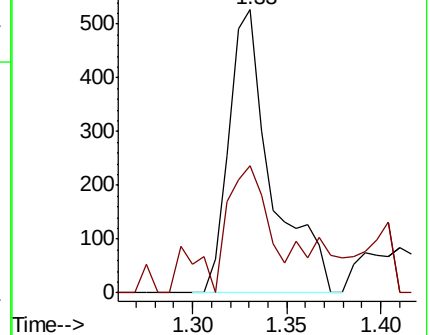
50 100

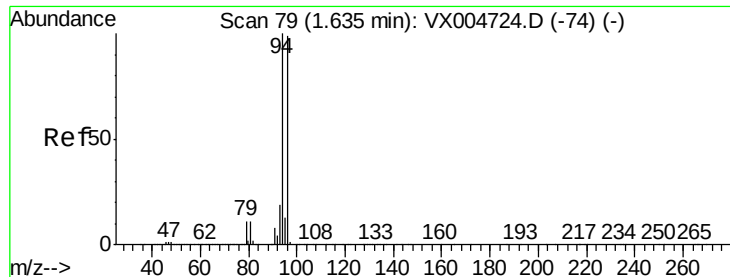
52 34.7 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.256 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

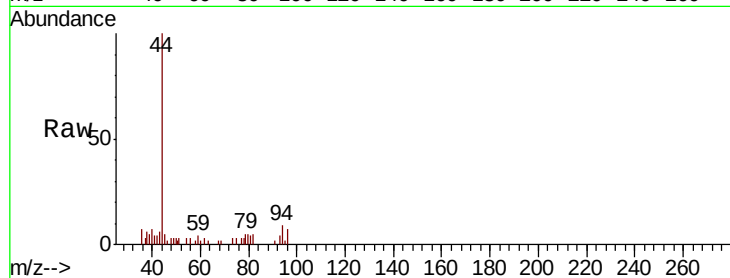
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 94 Resp: 435

Ion Ratio Lower Upper

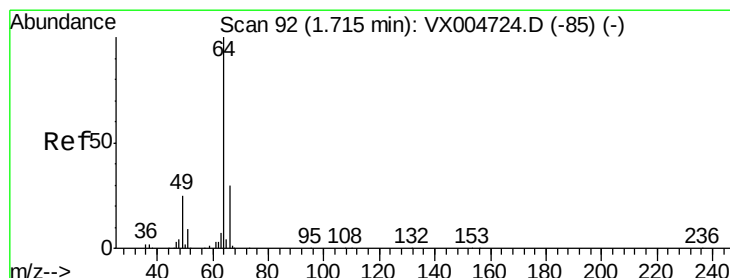
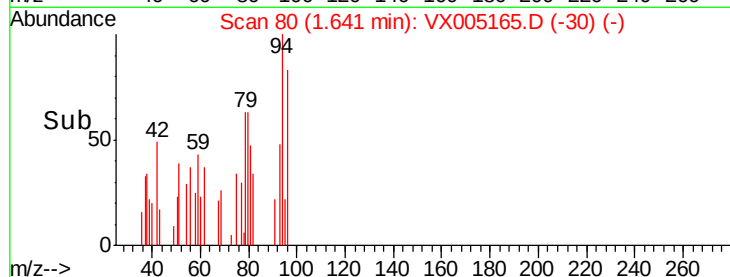
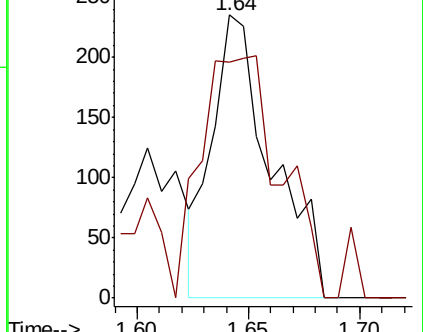
94 100

96 83.4 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX005165.D

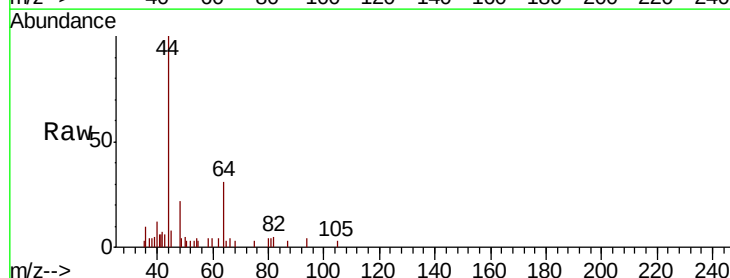
Acq: 09 Oct 2018 18:02

Tgt Ion: 64 Resp: 2106

Ion Ratio Lower Upper

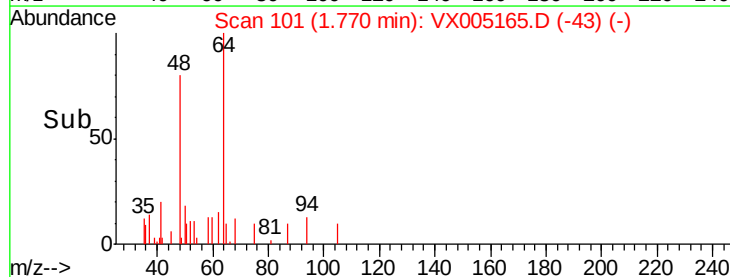
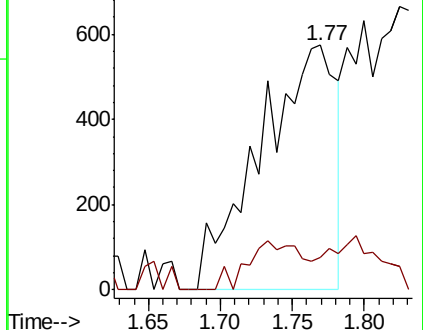
64 100

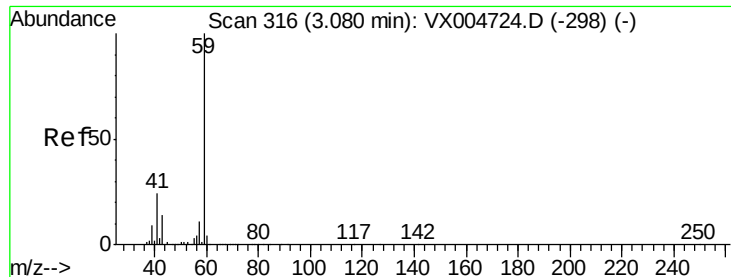
66 13.1 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



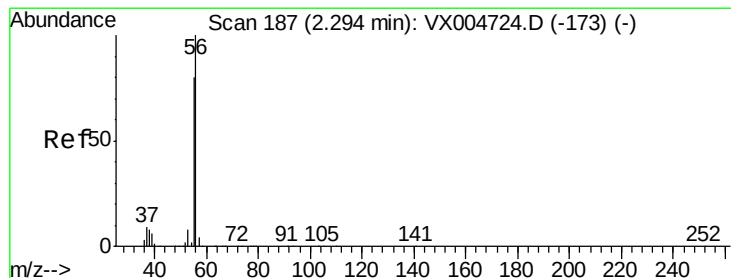
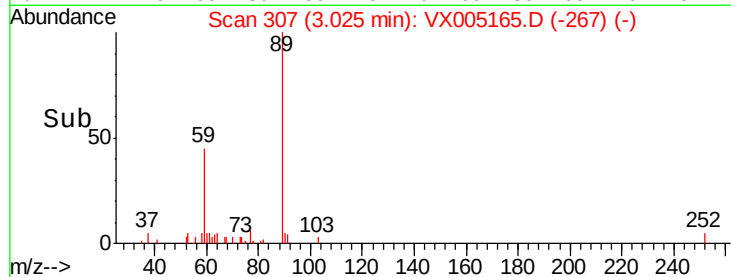
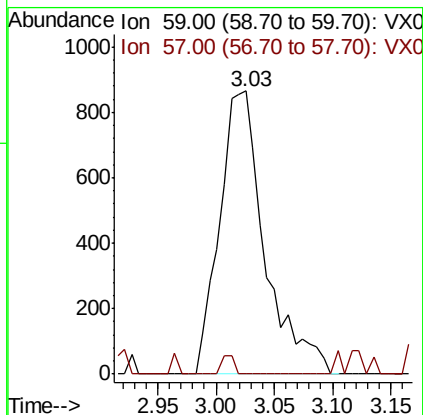
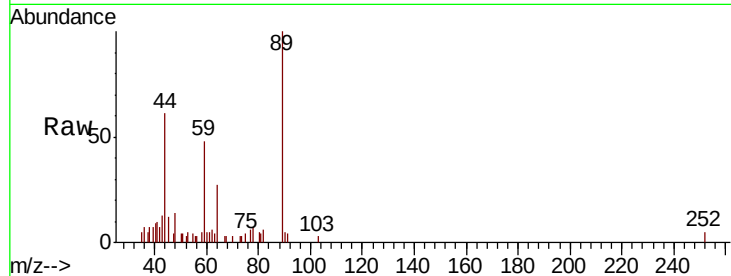


#11

Tert butyl alcohol
 Concen: 3.166 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

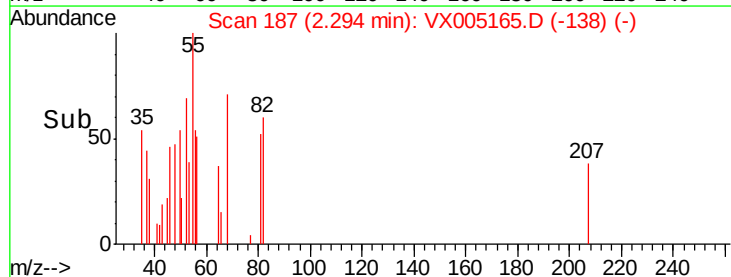
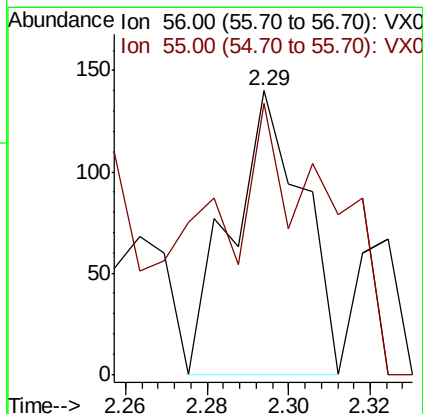
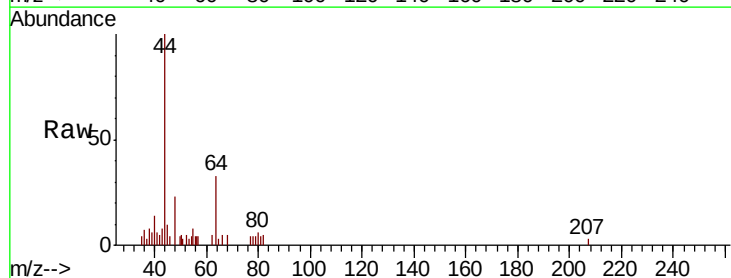
Tot Ion: 59 Resp: 2336
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.6 12.8#

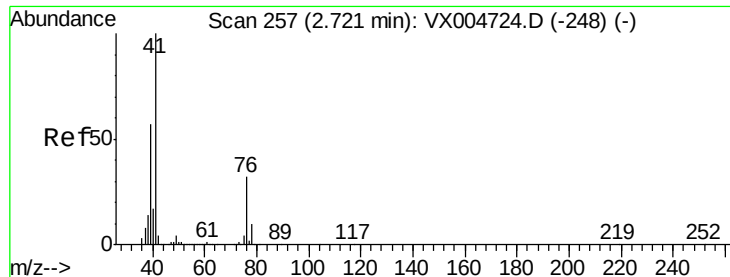


#13

Acrolein
 Concen: 0.324 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

Tgt Ion: 56 Resp: 170
 Ion Ratio Lower Upper
 56 100
 55 148.8 63.4 95.2#

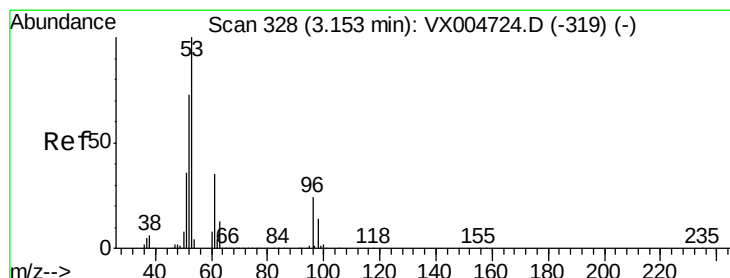
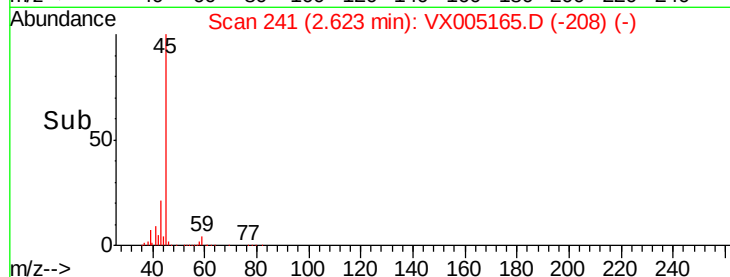
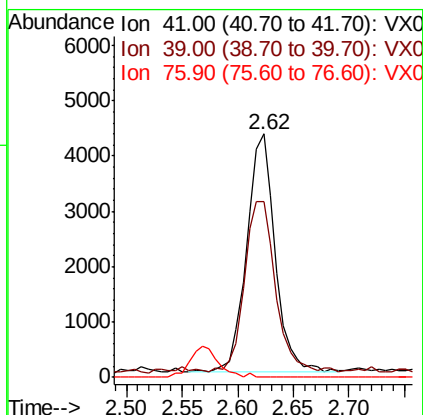
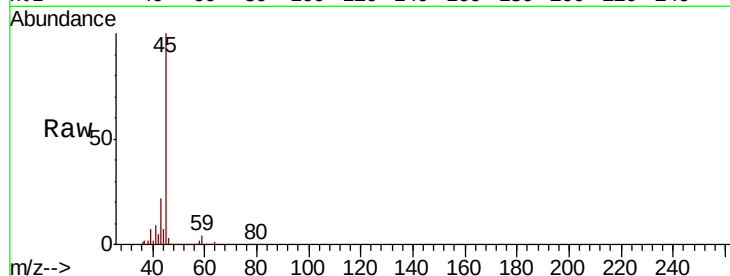




#14
Allvl chloride
Concen: 1.756 ug/l
RT: 2.62 min Scan# 241
Delta R.T. -0.10 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

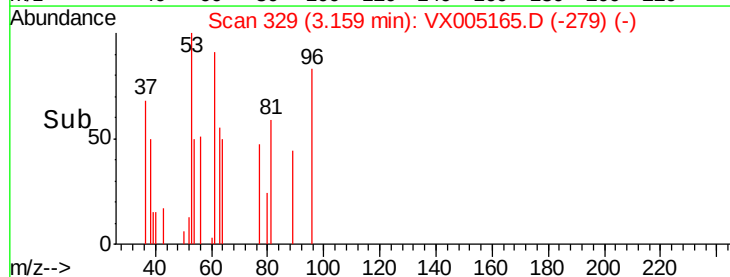
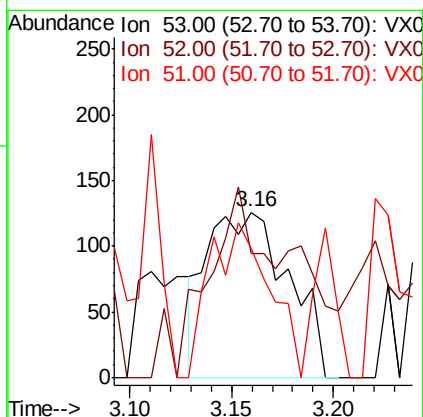
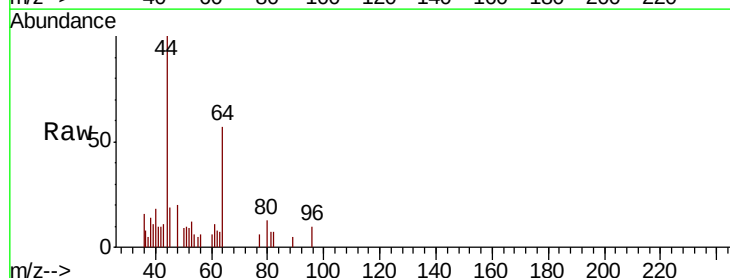
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

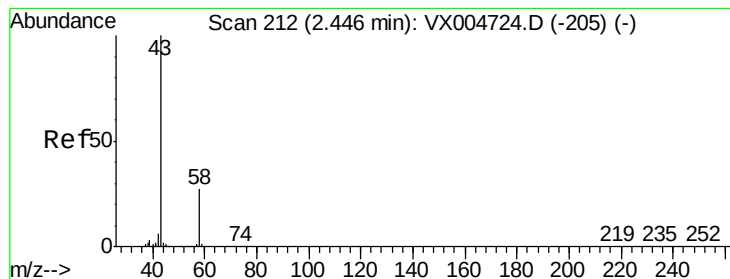
Tot Ion: 41 Resp: 7670
Ion Ratio Lower Upper
41 100
39 78.0 44.1 66.1#
76 0.0 25.0 37.4#



#15
Acrylonitrile
Concen: 0.214 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

Tgt Ion: 53 Resp: 348
Ion Ratio Lower Upper
53 100
52 82.8 63.0 94.4
51 68.7 28.6 42.8#





#16

Acetone

Concen: 3.571 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

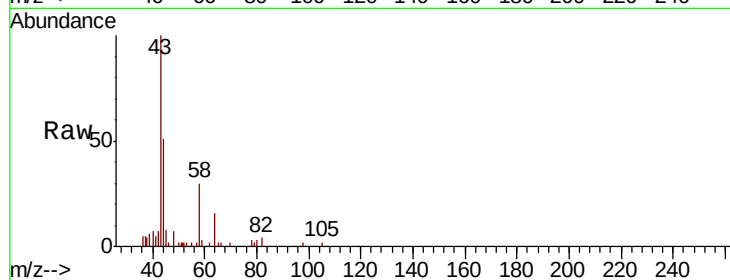
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 5501

Ion Ratio Lower Upper

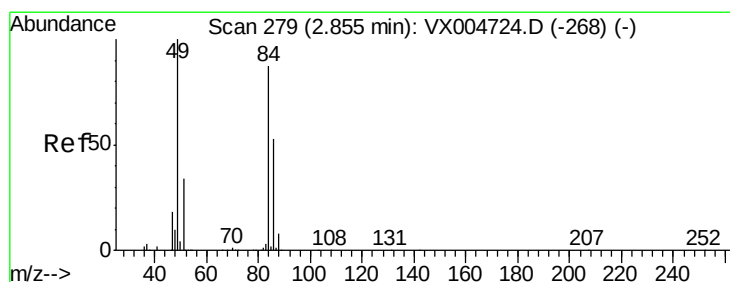
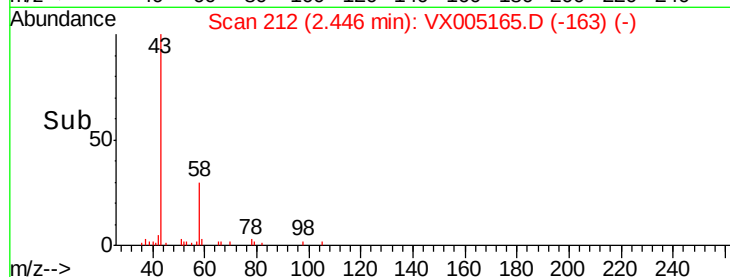
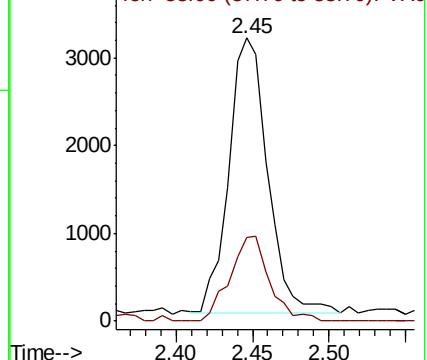
43 100

58 30.4 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Tgt Ion: 84 Resp: 988

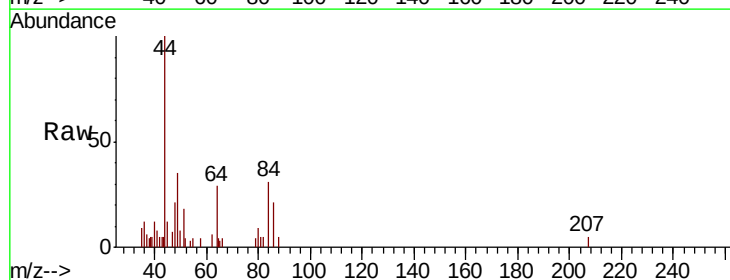
Ion Ratio Lower Upper

84 100

49 114.2 92.3 138.5

51 47.4 31.8 47.6

86 67.9 48.5 72.7

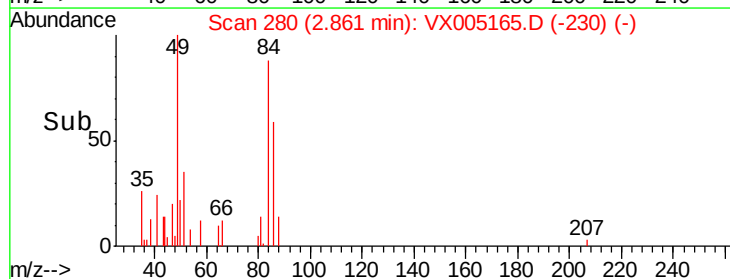
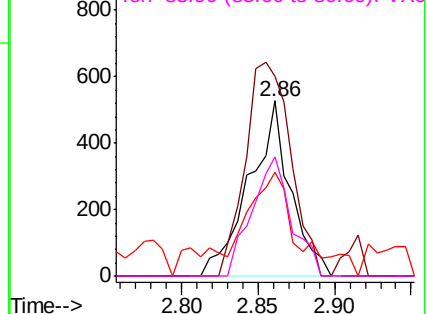


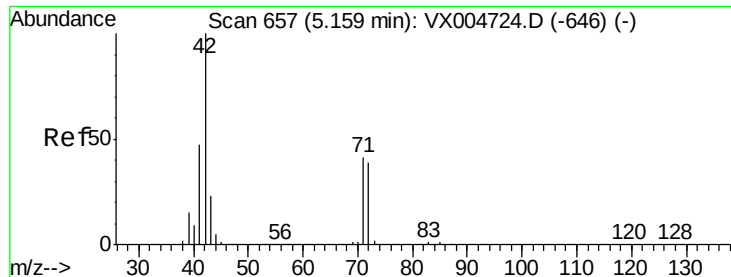
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

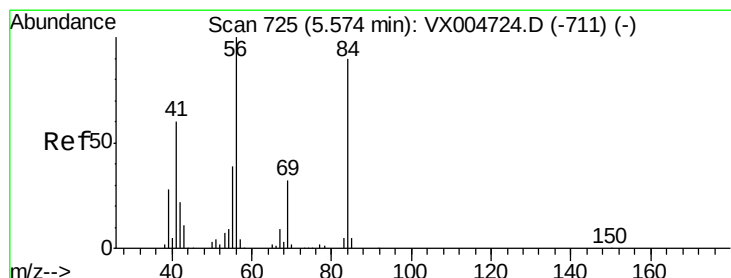
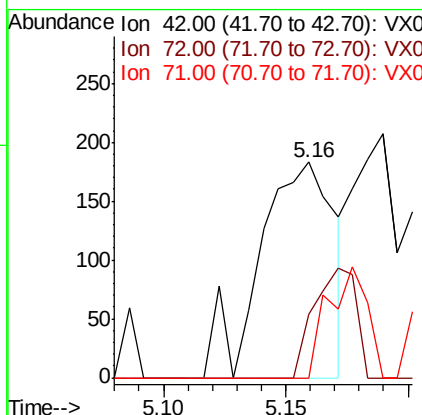
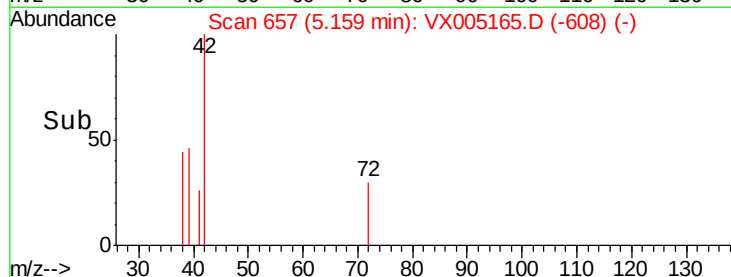
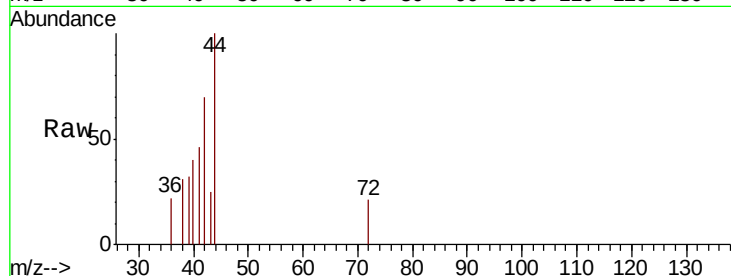




#29
Tetrahydrofuran
Concen: 0.276 ug/l
RT: 5.16 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

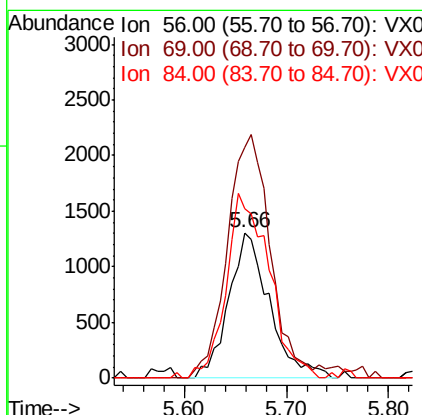
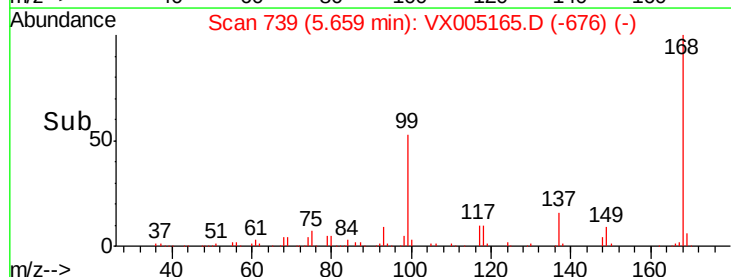
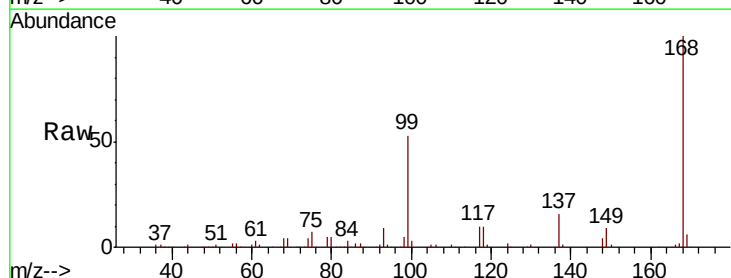
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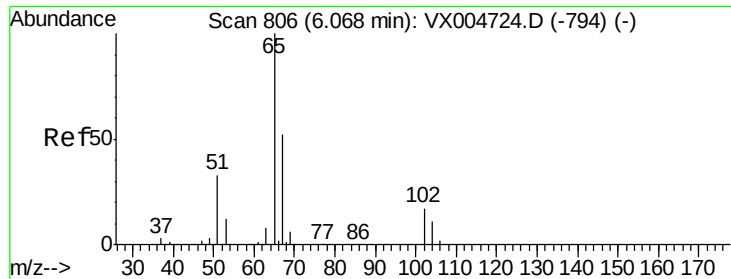
Tot Ion: 42 Resp: 389
Ion Ratio Lower Upper
42 100
72 29.0 33.7 50.5#
71 27.0 32.2 48.4#



#31
Cyclohexane
Concen: 1.077 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

Tgt Ion: 56 Resp: 3617
Ion Ratio Lower Upper
56 100
69 159.4 25.9 38.9#
84 116.4 71.9 107.9#

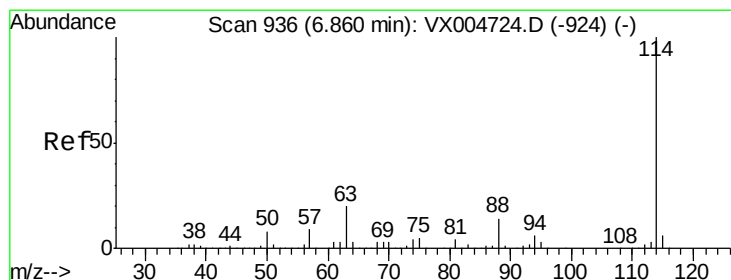
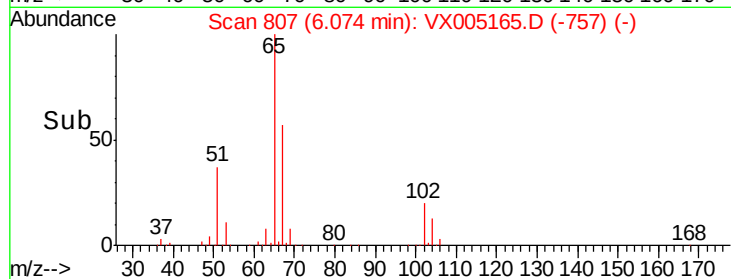
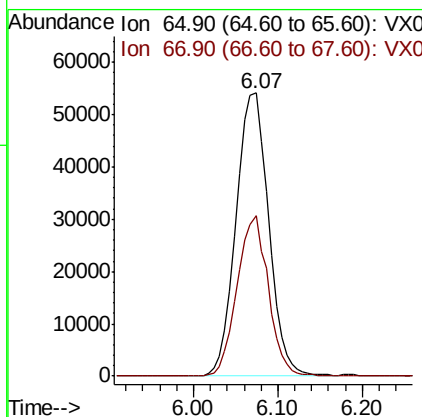
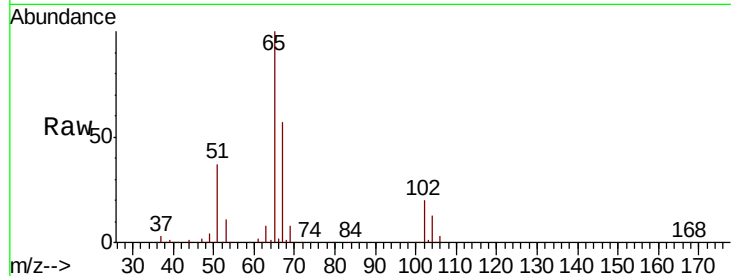




#33
 1,2-Dichloroethane-d4
 Concen: 53.878 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

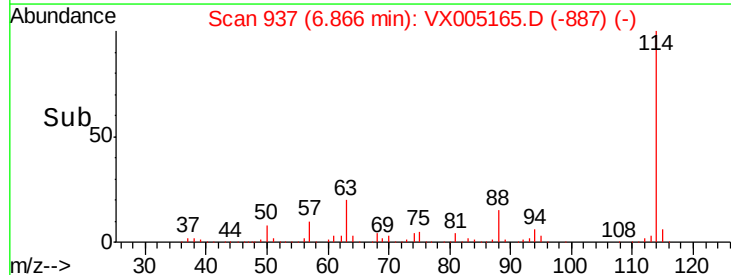
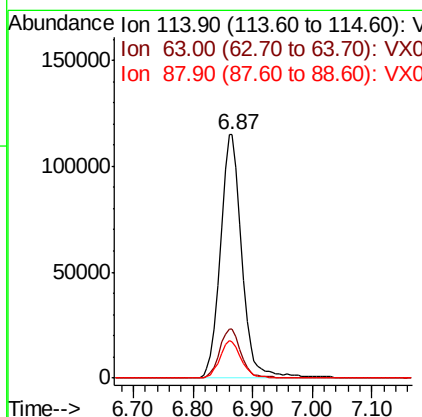
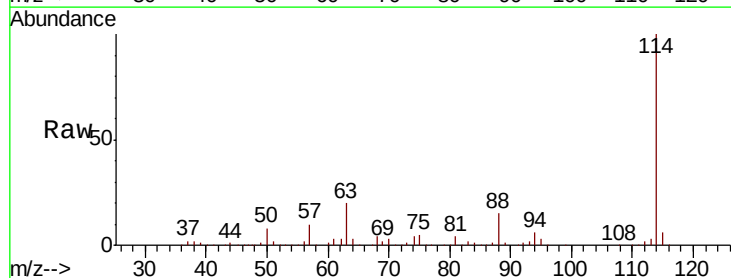
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

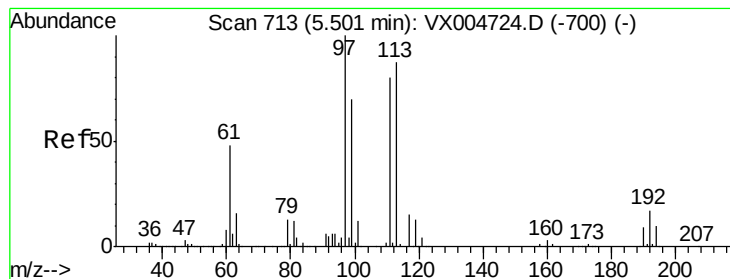
Tot Ion: 65 Resp: 142174
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

Tgt Ion: 114 Resp: 288378
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 14.7 0.0 27.0





#35

Dibromofluoromethane

Concen: 48.548 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

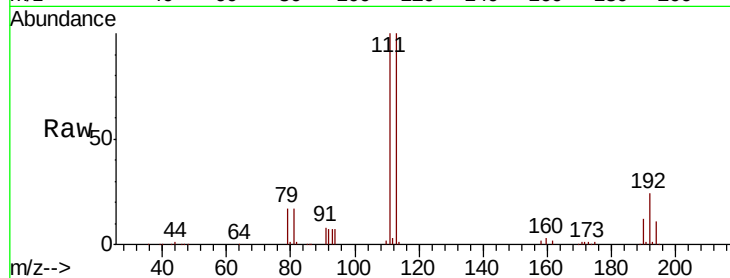
Tot Ion:113 Resp: 118653

Ion Ratio Lower Upper

113 100

111 102.6 77.0 115.4

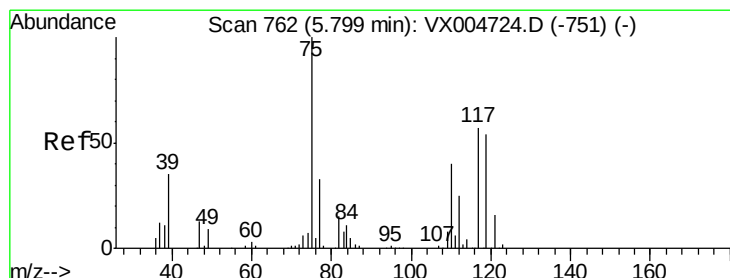
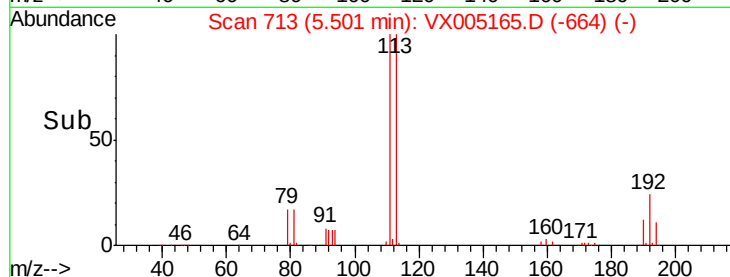
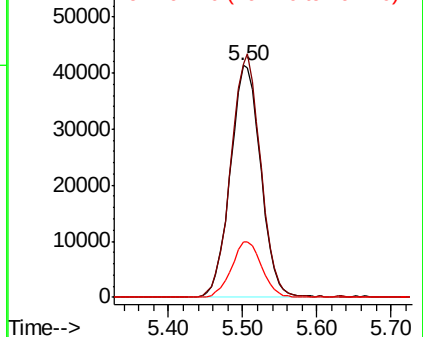
192 23.7 17.0 25.6



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: 3.700 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

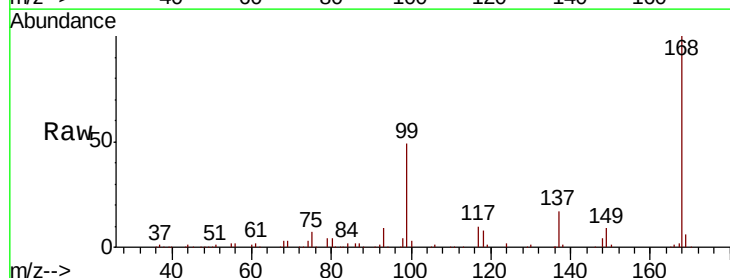
Tgt Ion: 75 Resp: 12339

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

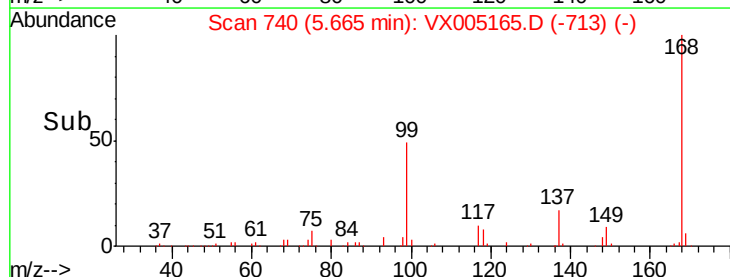
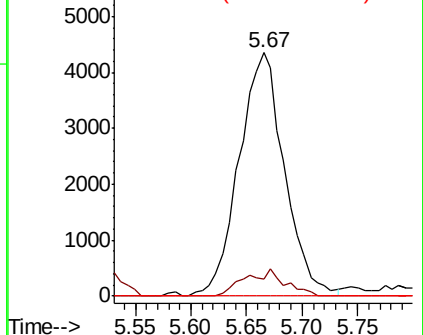
77 0.0 27.1 40.7#

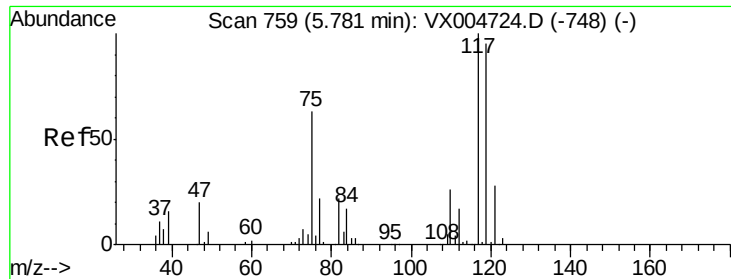


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.872 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

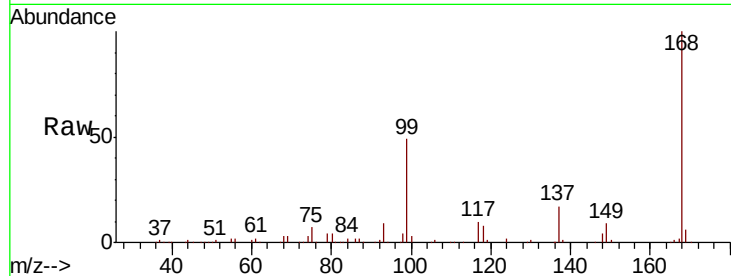
Tot Ion:117 Resp: 17079

Ion Ratio Lower Upper

117 100

119 6.3 75.2 112.8#

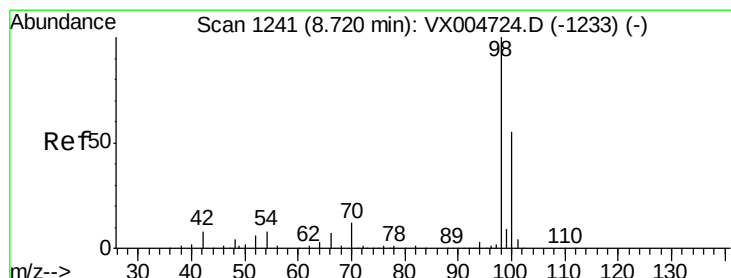
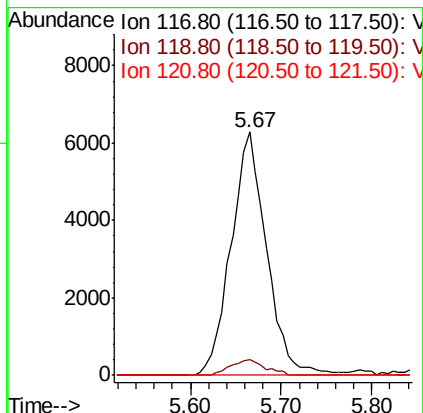
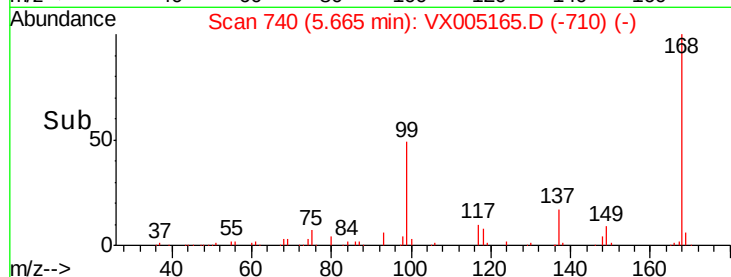
121 0.0 22.5 33.7#



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: 51.571 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005165.D

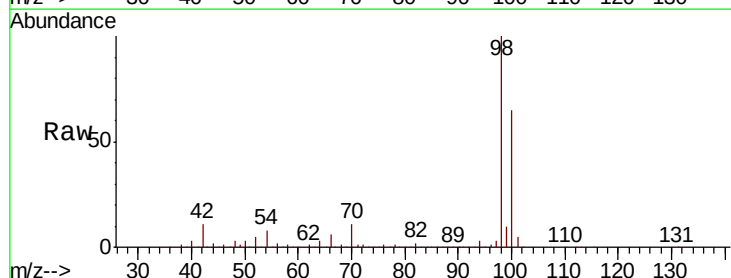
Acq: 09 Oct 2018 18:02

Tgt Ion: 98 Resp: 419023

Ion Ratio Lower Upper

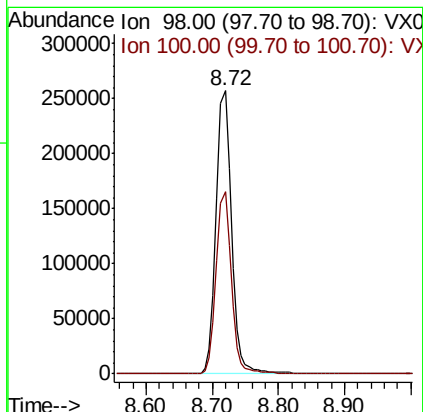
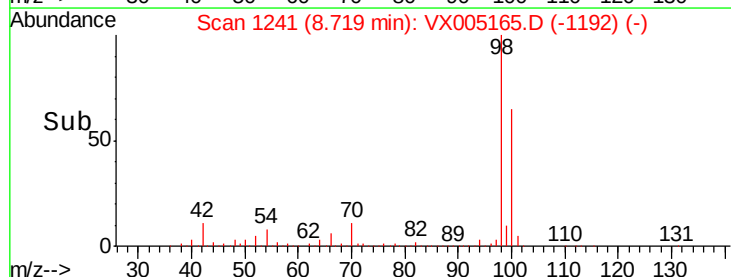
98 100

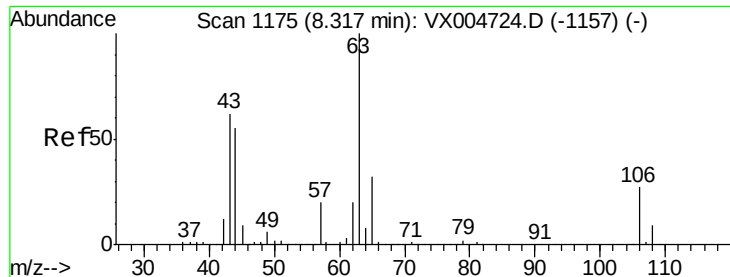
100 63.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#58

2-Chloroethyl Vinyl ether

Concen: 14.250 ug/l

RT: 8.21 min Scan# 1158

Delta R.T. -0.10 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

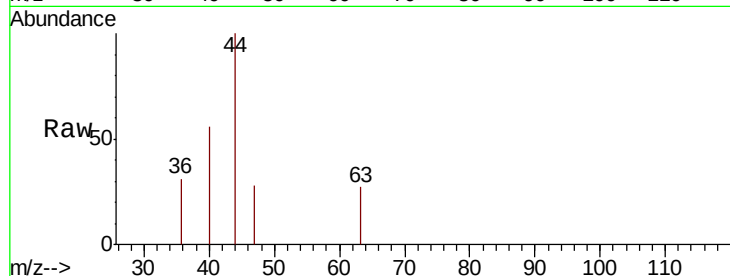
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 63 Resp: 19

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.21

50

40

30

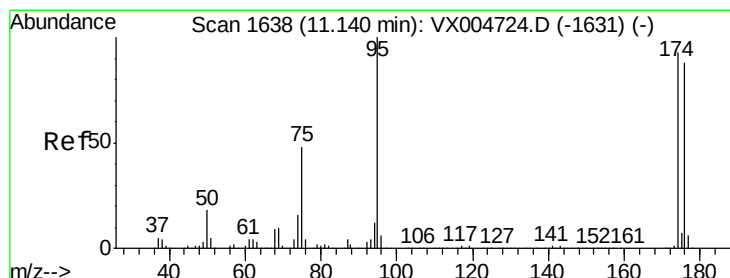
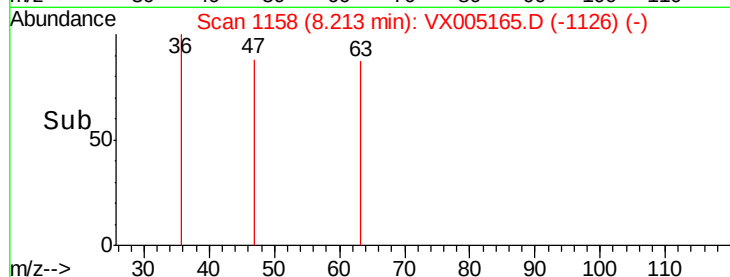
20

10

0

8.19 8.20 8.21 8.22 8.23

Time-->



#62

4-Bromofluorobenzene

Concen: 51.916 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

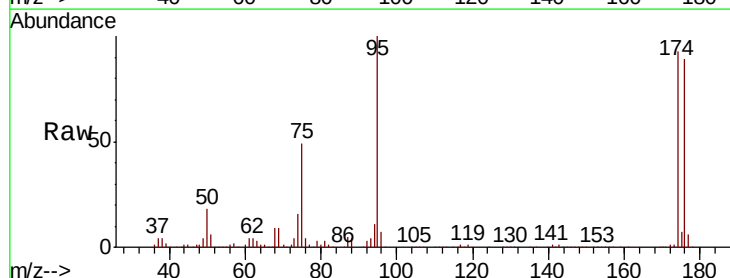
Tgt Ion: 95 Resp: 151966

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.0

176 88.4 0.0 180.2



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

150000

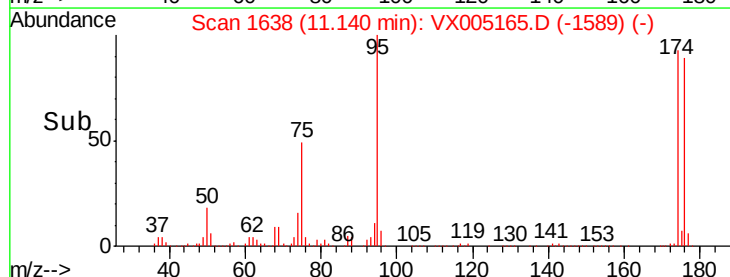
100000

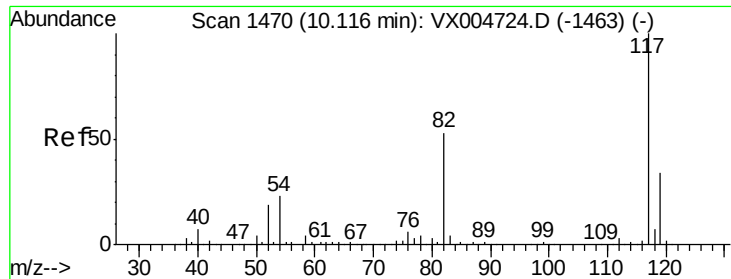
50000

0

11.10 11.14 11.20

Time-->

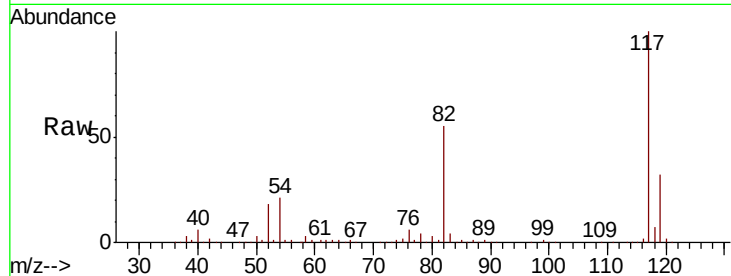




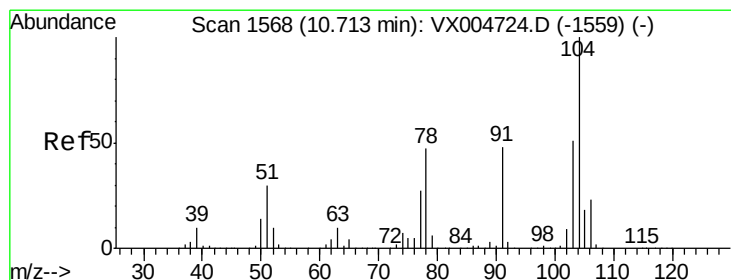
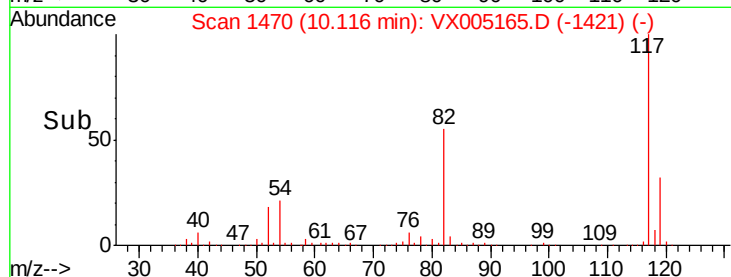
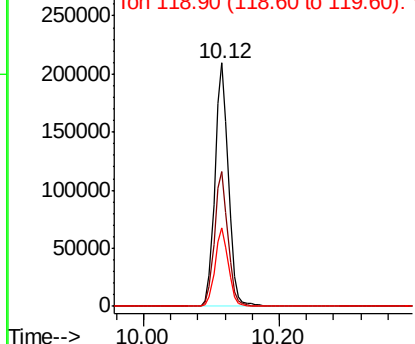
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 288210
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.4
119 32.3 27.4 41.0

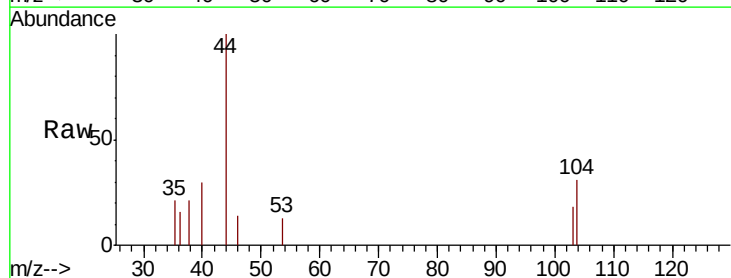


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

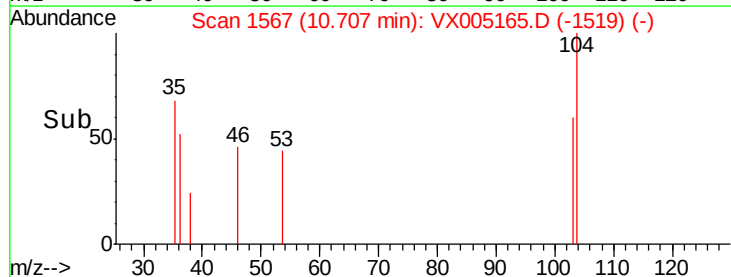
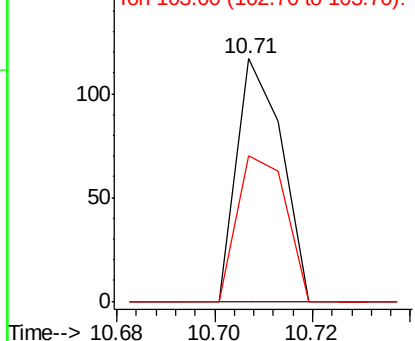


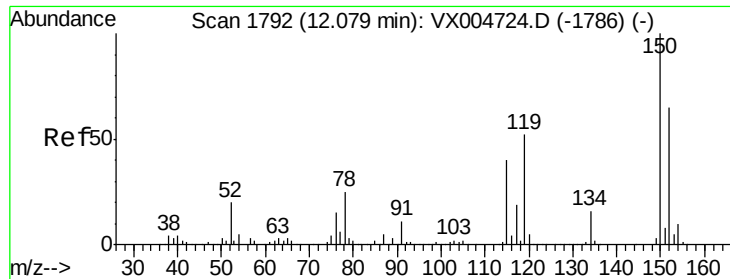
#70
Styrene
Concen: 2.150 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX005165.D
Acq: 09 Oct 2018 18:02

Tgt Ion:104 Resp: 75
Ion Ratio Lower Upper
104 100
78 0.0 40.0 60.0#
103 65.3 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

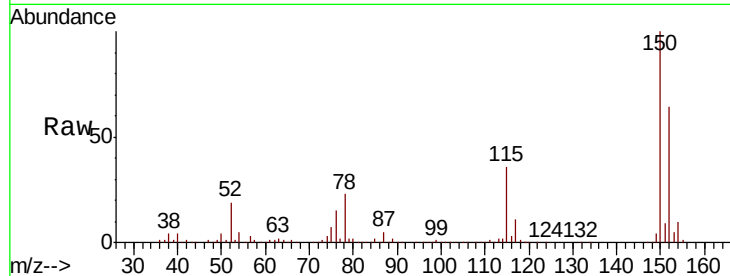
Tot Ion:152 Resp: 160510

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

150 156.2 0.0 351.0

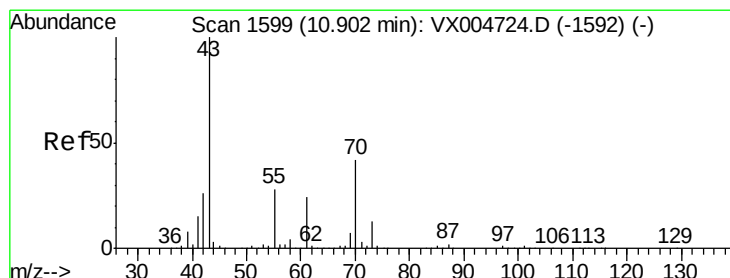
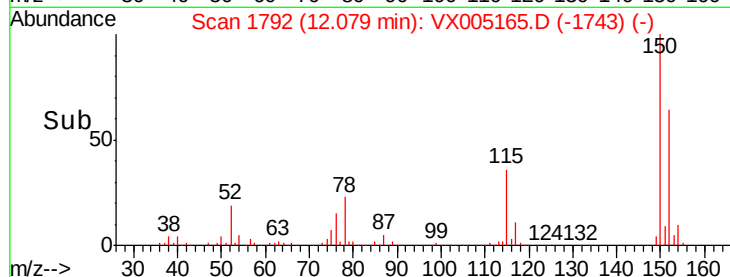
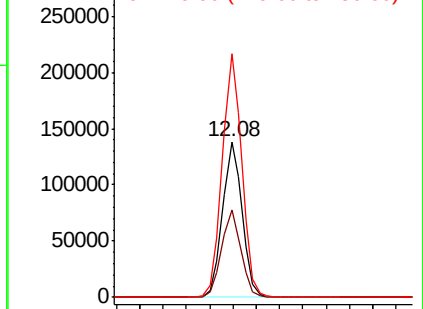


Abundance

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



#74

N-ethyl acetate

Concen: 1.756 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Tgt Ion: 43 Resp: 49

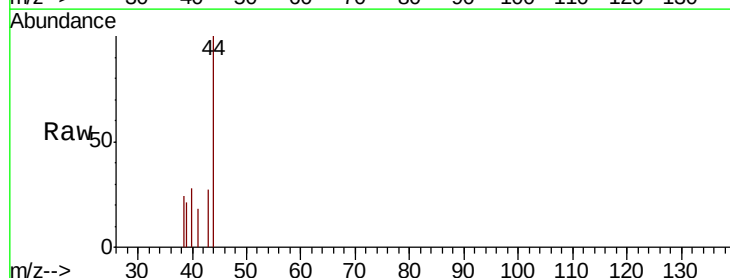
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#



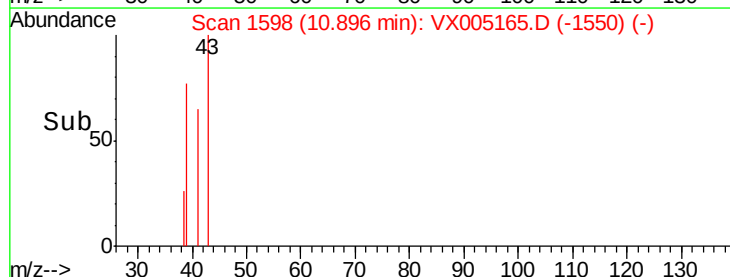
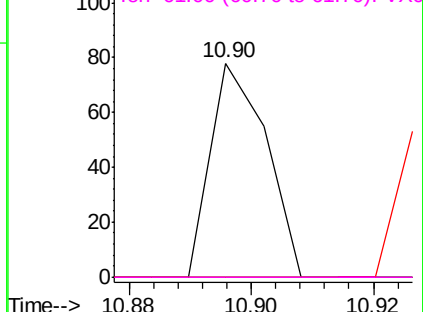
Abundance

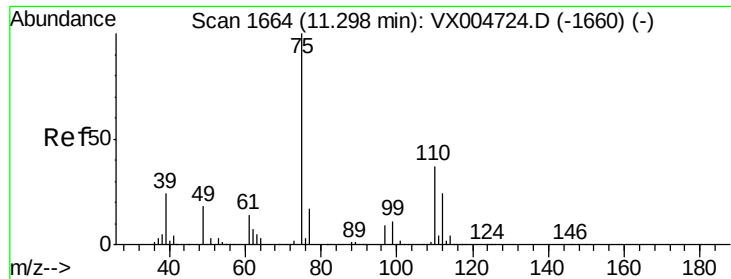
Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

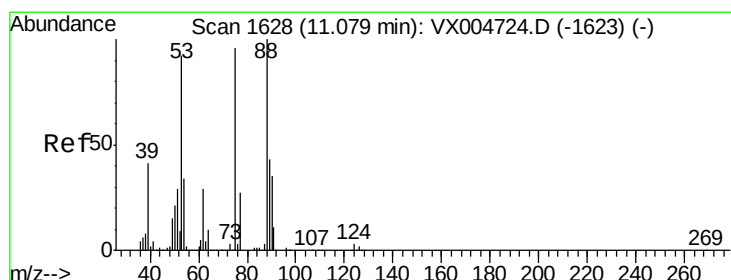
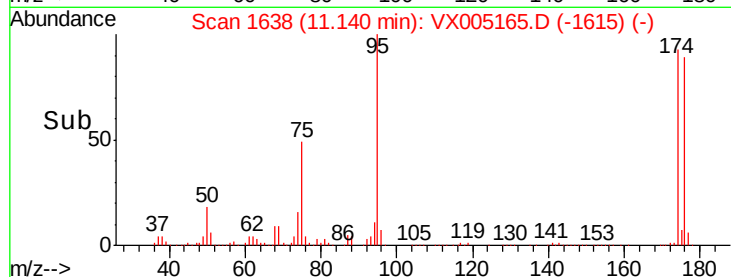
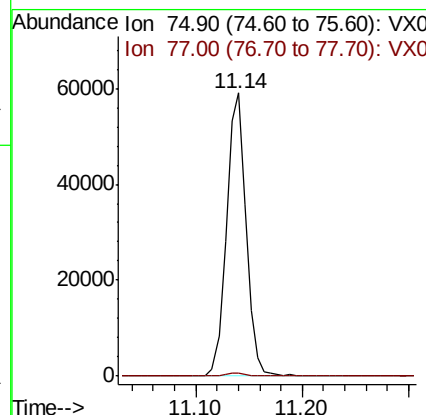
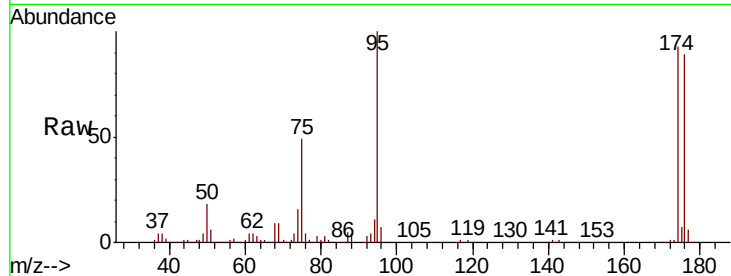




#76
 1,2,3-Trichloropropane
 Concen: 21.068 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

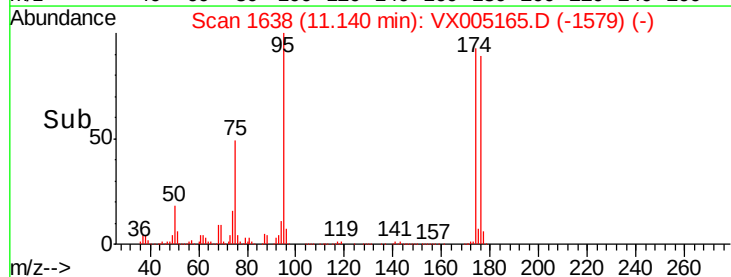
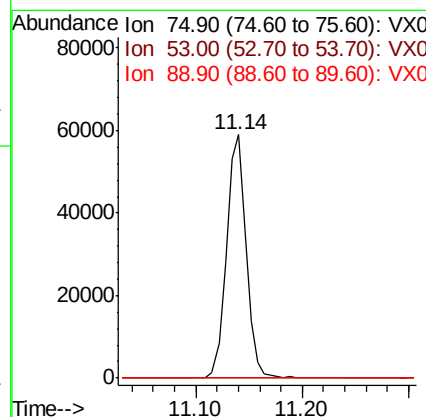
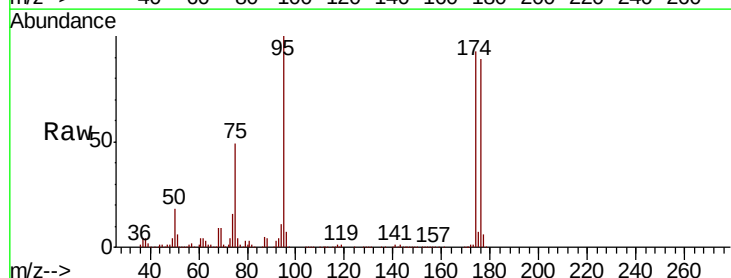
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

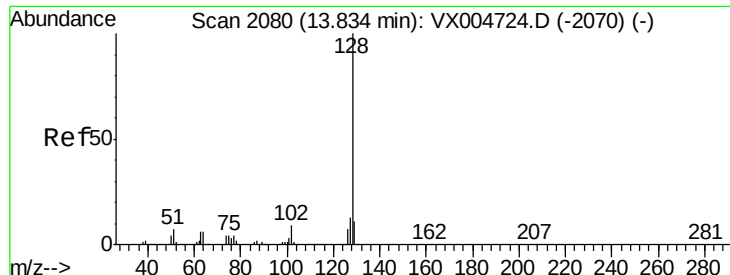
Tot Ion: 75 Resp: 75796
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.165 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005165.D
 Acq: 09 Oct 2018 18:02

Tgt Ion: 75 Resp: 75796
 Ion Ratio Lower Upper
 75 100
 53 0.4 80.2 120.4#
 89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.740 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005165.D

Acq: 09 Oct 2018 18:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

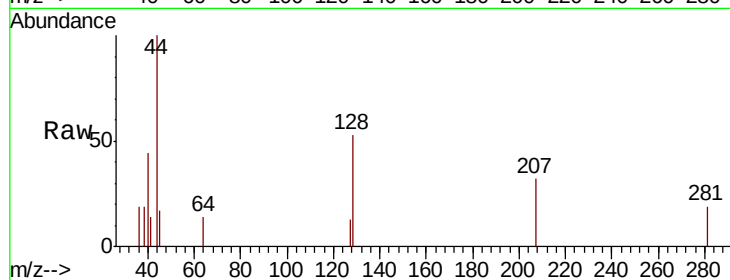
Tot Ion:128 Resp: 281

Ion Ratio Lower Upper

128 100

127 16.0 10.4 15.6#

129 0.0 8.7 13.1#



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

