

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005164.D
 Acq On : 09 Oct 2018 17:35
 Operator : JC/MD
 Sample : J5291-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Quant Time: Oct 10 05:53:39 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

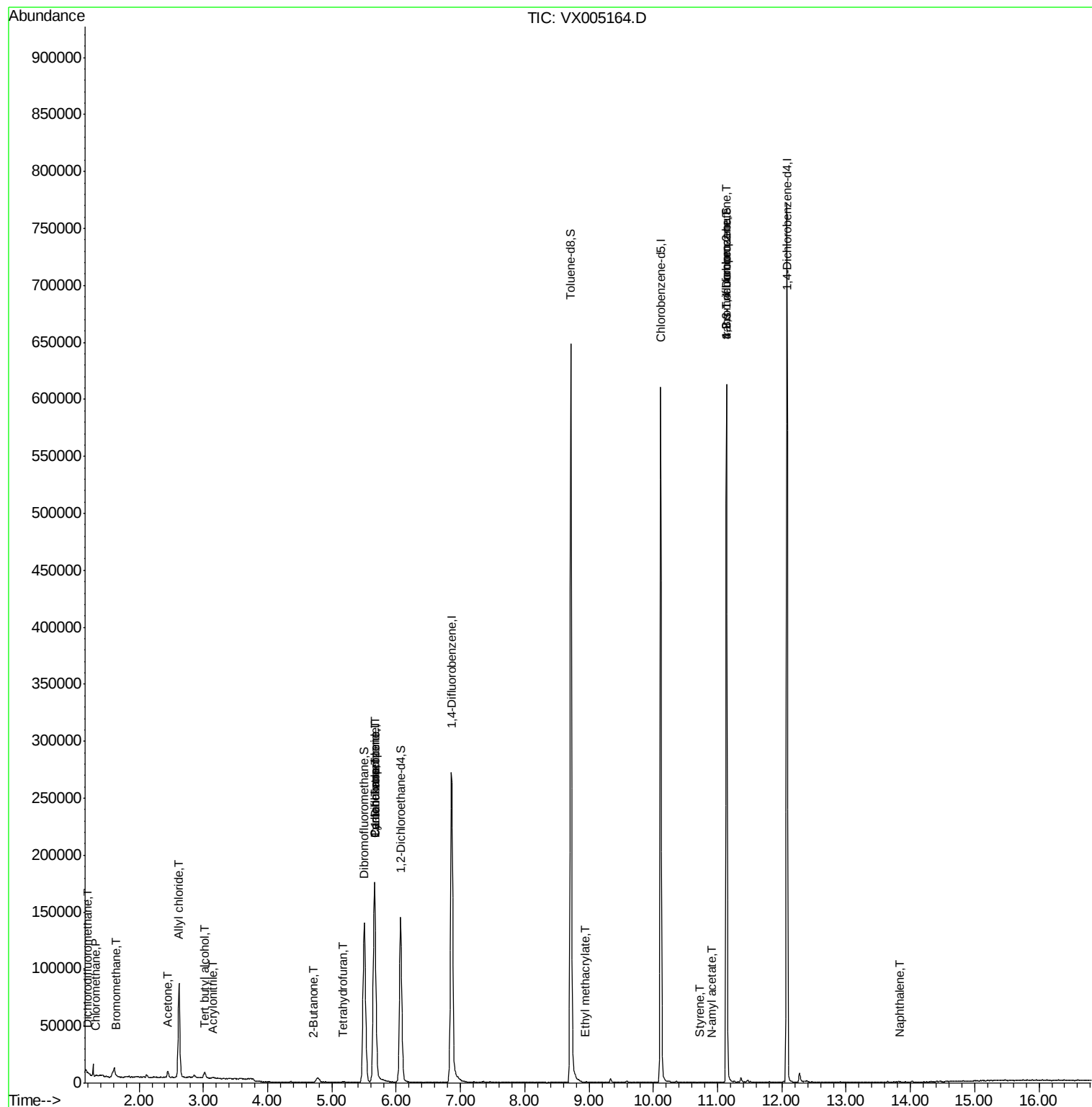
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	182541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	287276	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	285223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	158217	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	139805	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	
35) Dibromofluoromethane	5.50	113	118291	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
50) Toluene-d8	8.72	98	418271	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.14	95	149364	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	499	0.200	ug/l	96
3) Chloromethane	1.32	50	810	0.268	ug/l #	57
5) Bromomethane	1.65	94	381	0.227	ug/l #	62
6) Chloroethane	1.78	64	1916	Below Cal	#	45
11) Tert butyl alcohol	3.03	59	3237	4.440	ug/l #	72
14) Allyl chloride	2.62	41	8705	2.017	ug/l #	63
15) Acrylonitrile	3.15	53	360	0.224	ug/l #	83
16) Acetone	2.45	43	6245	4.102	ug/l	93
20) Methylene Chloride	2.85	84	936	Below Cal	#	85
25) 2-Butanone	4.70	43	645	0.287	ug/l #	78
29) Tetrahydrofuran	5.17	42	534	0.383	ug/l #	80
31) Cyclohexane	5.66	56	3761	1.134	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12903	3.884	ug/l #	47
38) Carbon Tetrachloride	5.67	117	16832	4.820	ug/l #	17
56) Ethyl methacrylate	8.93	69	19	2.866	ug/l #	1
70) Styrene	10.71	104	116	2.155	ug/l #	67
74) N-amyl acetate	10.90	43	53	1.757	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	74122	20.902	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	176	Below Cal	#	44
81) trans-1,4-Dichloro-2-buten	11.14	75	74122	56.728	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	325	Below Cal	#	64
95) Naphthalene	13.83	128	501	0.757	ug/l #	69

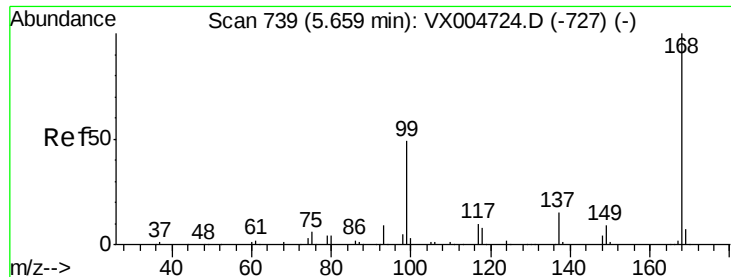
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

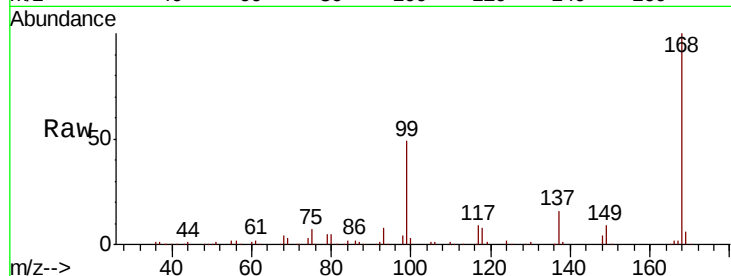
STORAGE-BLANK-WATER-REF-4

Tot Ion:168 Resp: 182541

Ion Ratio Lower Upper

168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

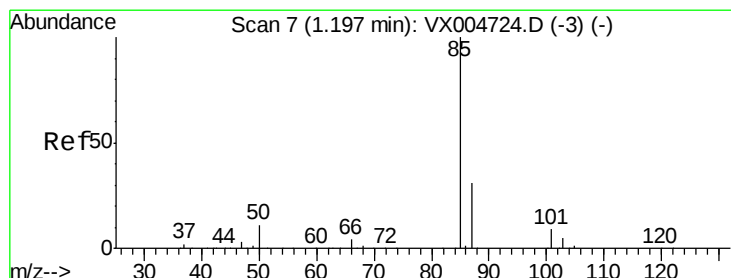
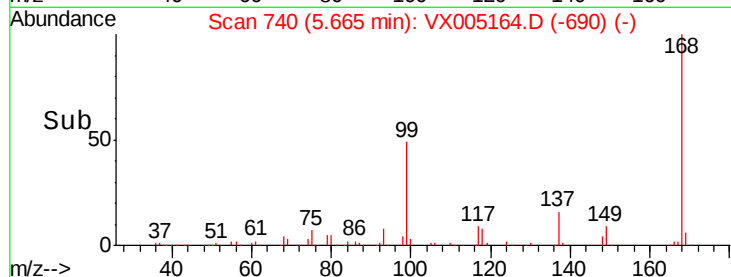
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.200 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX005164.D

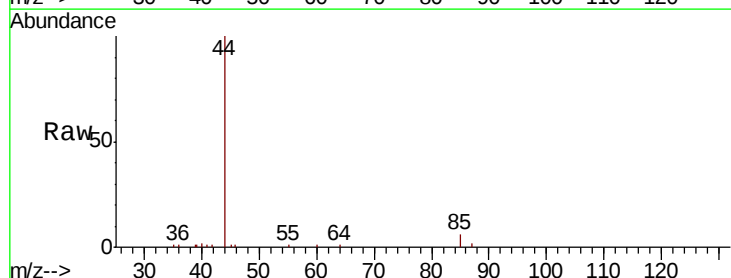
Acq: 09 Oct 2018 17:35

Tgt Ion: 85 Resp: 499

Ion Ratio Lower Upper

85 100

87 33.5 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

500

400

300

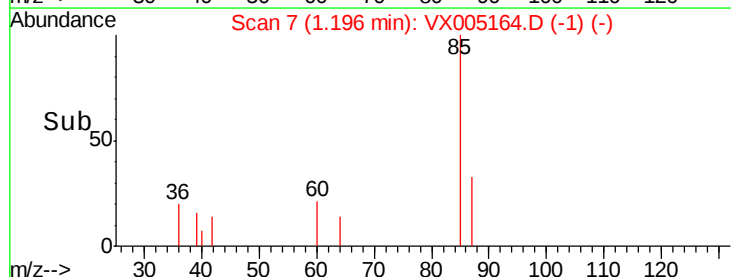
200

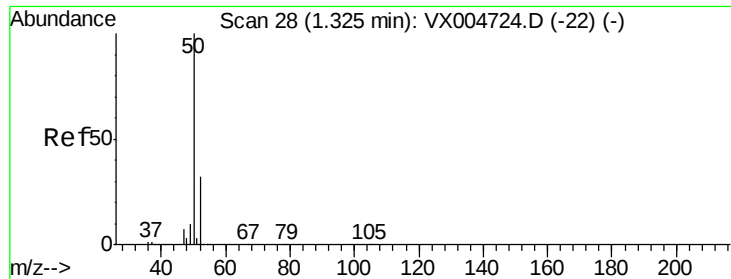
100

0

Time-->

1.20 1.25





#3

Chloromethane

Concen: 0.268 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

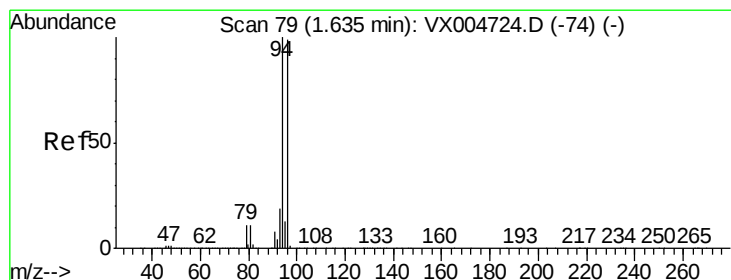
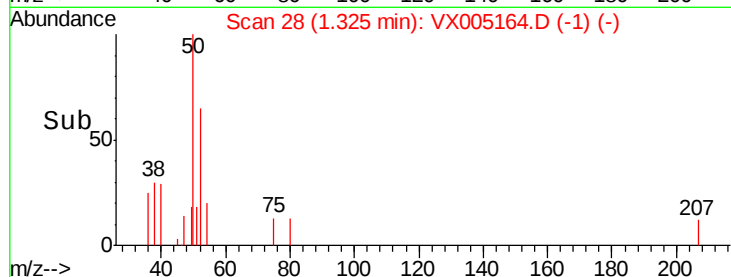
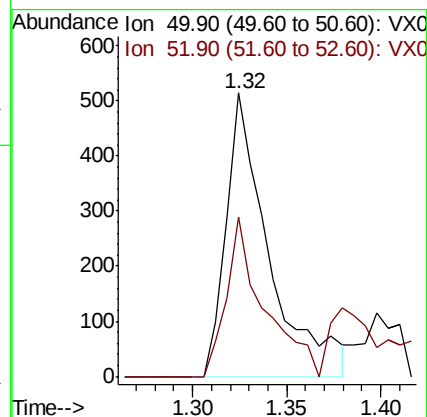
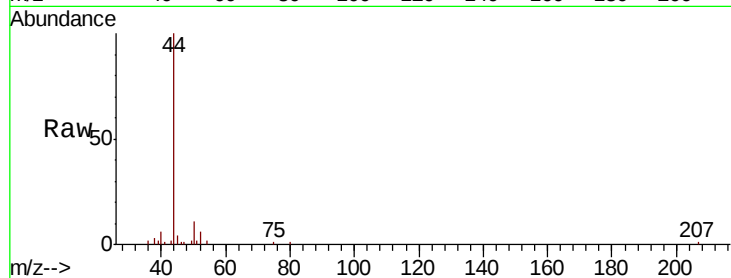
STORAGE-BLANK-WATER-REF-4

Tot Ion: 50 Resp: 810

Ion Ratio Lower Upper

50 100

52 56.4 25.8 38.6#



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005164.D

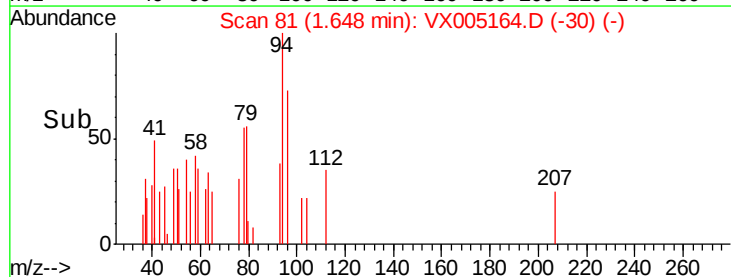
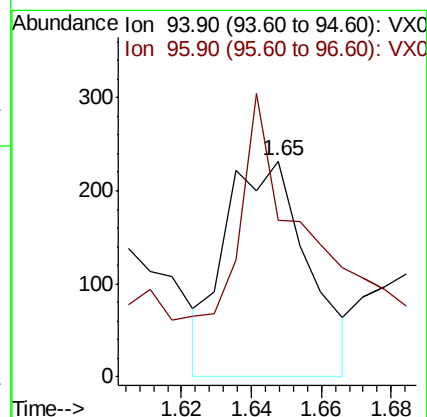
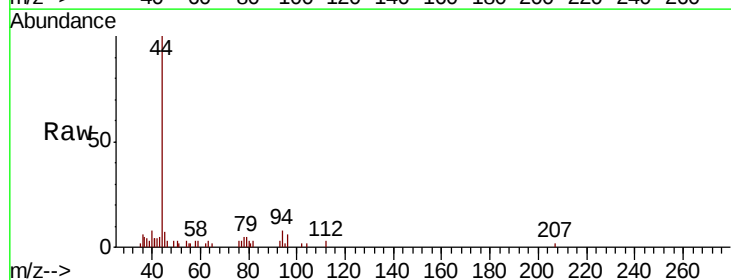
Acq: 09 Oct 2018 17:35

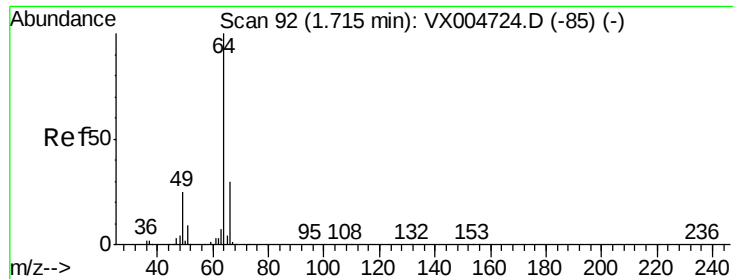
Tgt Ion: 94 Resp: 381

Ion Ratio Lower Upper

94 100

96 61.9 79.5 119.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 103

Delta R.T. 0.07 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

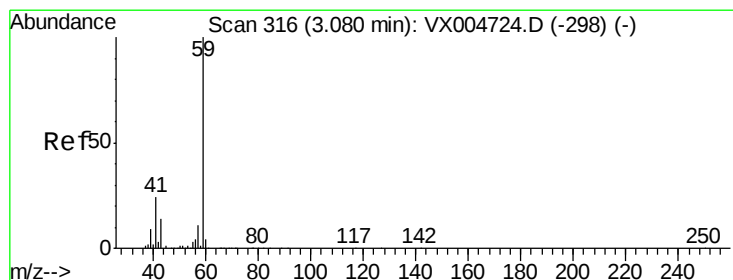
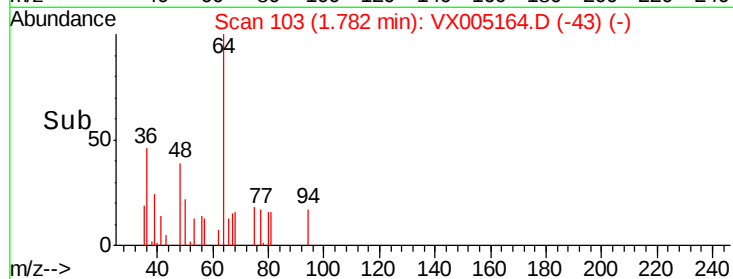
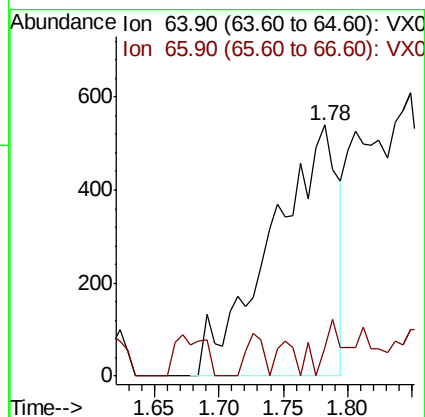
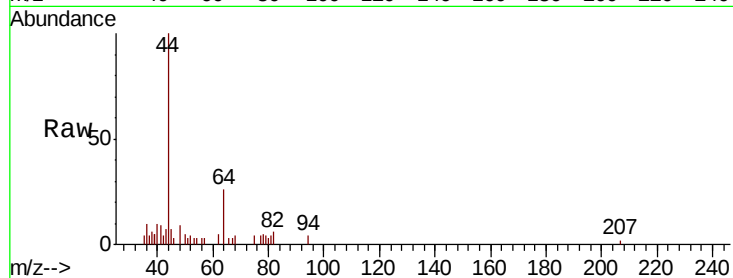
STORAGE-BLANK-WATER-REF-4

Tot Ion: 64 Resp: 1916

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



#11

Tert butyl alcohol

Concen: 4.440 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005164.D

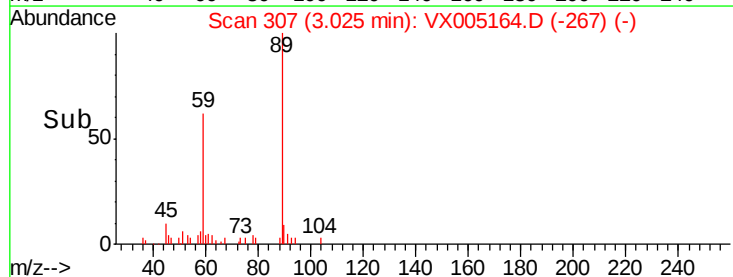
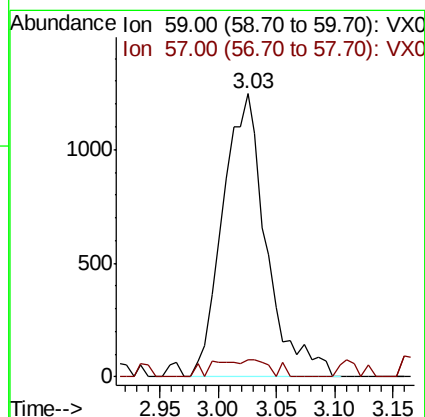
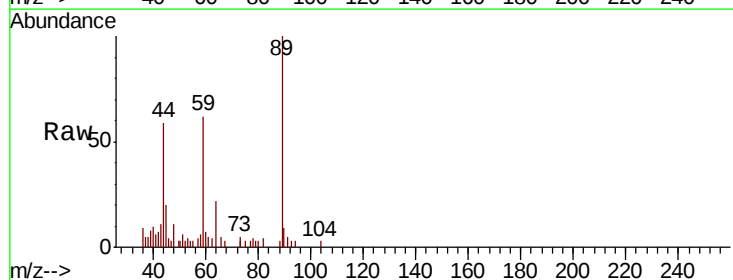
Acq: 09 Oct 2018 17:35

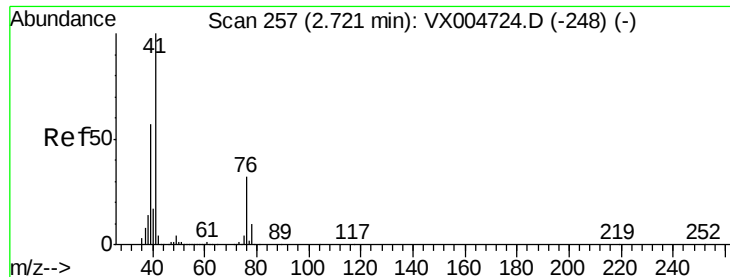
Tgt Ion: 59 Resp: 3237

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#14

Allvl chloride

Concen: 2.017 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

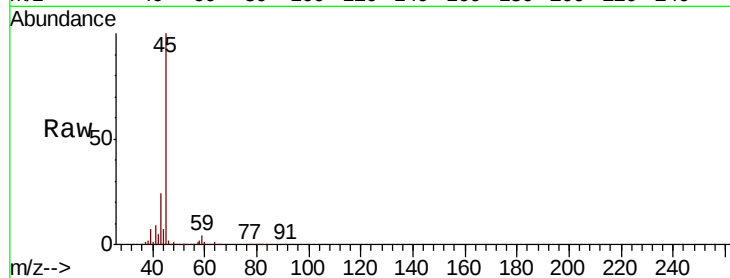
Tot Ion: 41 Resp: 8705

Ion Ratio Lower Upper

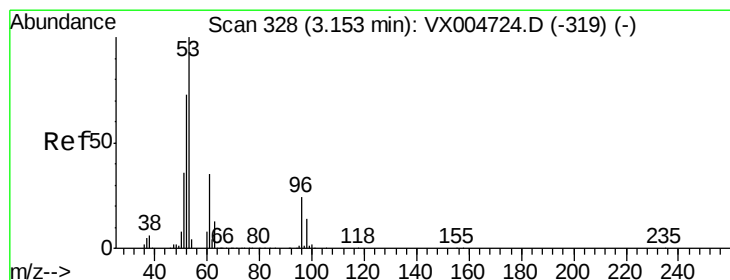
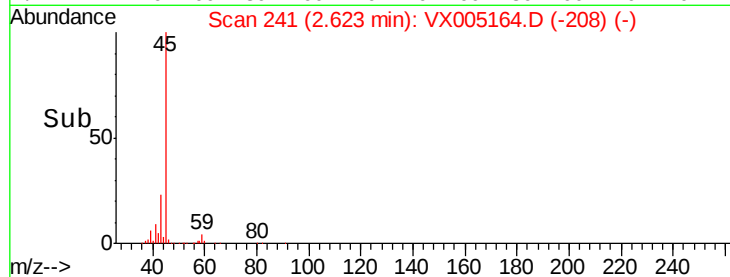
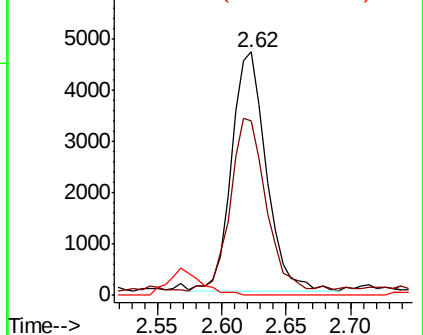
41 100

39 73.3 44.1 66.1#

76 0.0 25.0 37.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0



#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

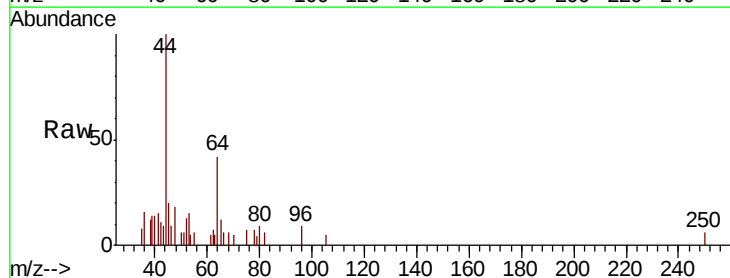
Tgt Ion: 53 Resp: 360

Ion Ratio Lower Upper

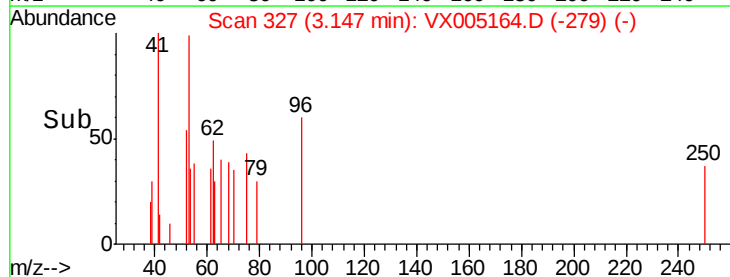
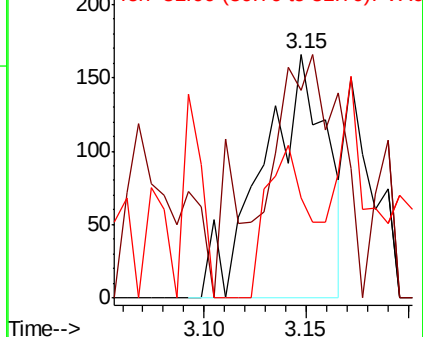
53 100

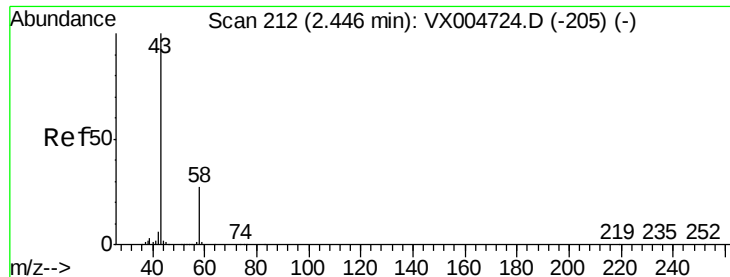
52 98.1 63.0 94.4#

51 38.6 28.6 42.8



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: 4.102 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

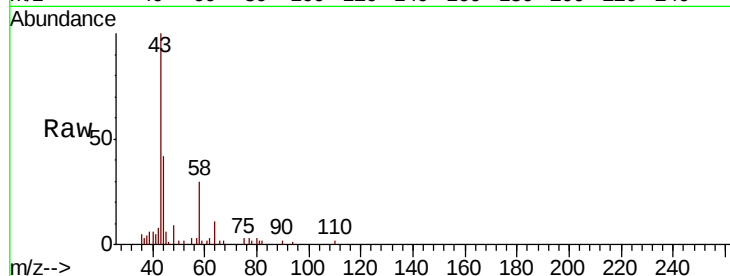
STORAGE-BLANK-WATER-REF-4

Tot Ion: 43 Resp: 6245

Ion Ratio Lower Upper

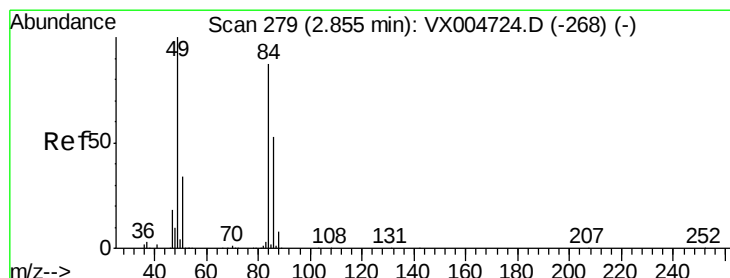
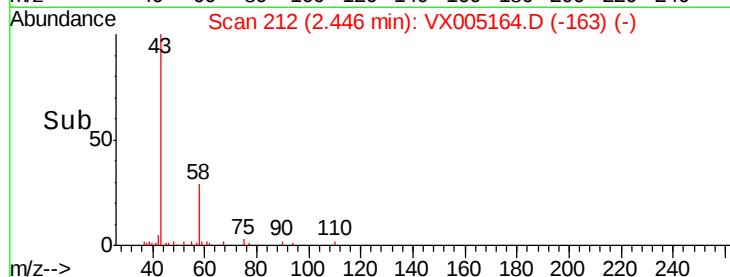
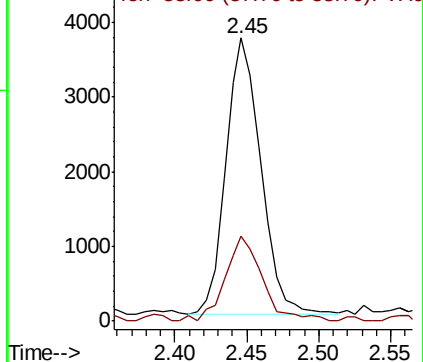
43 100

58 30.9 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: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Tgt Ion: 84 Resp: 936

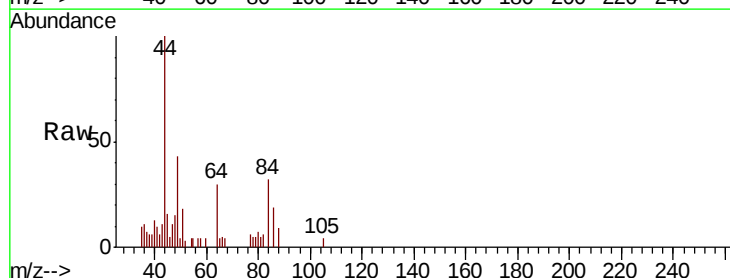
Ion Ratio Lower Upper

84 100

49 136.3 92.3 138.5

51 55.7 31.8 47.6#

86 61.6 48.5 72.7

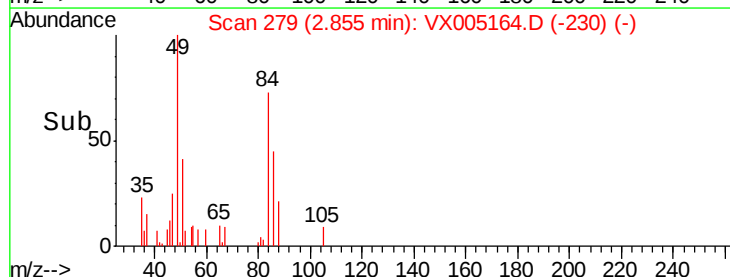
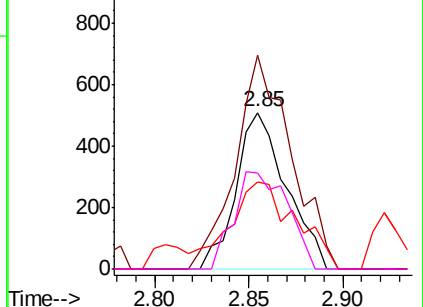


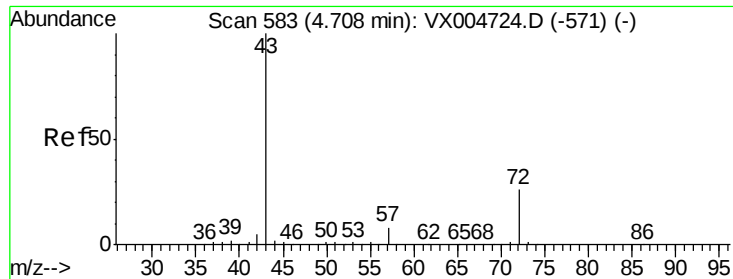
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 0.287 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

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ClientSampleId :

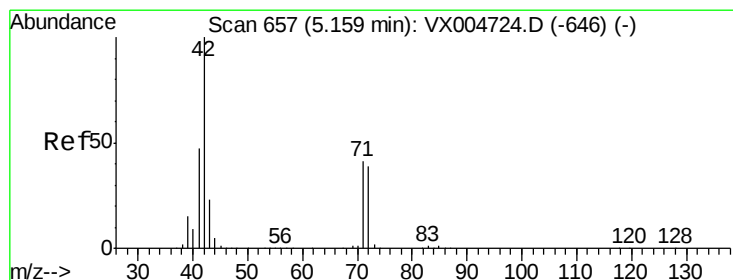
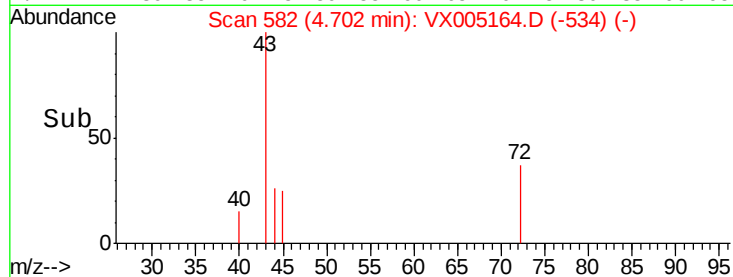
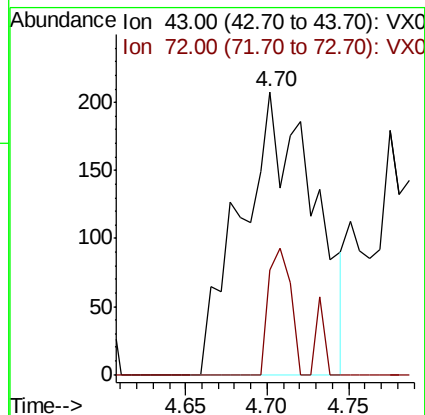
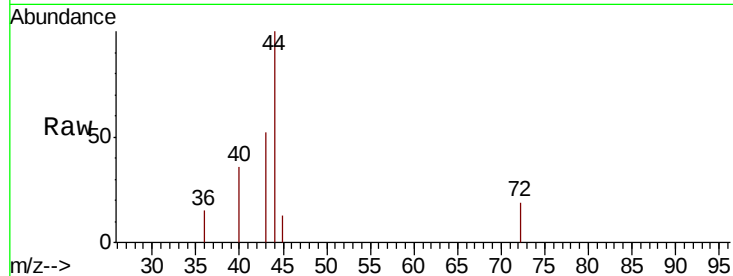
STORAGE-BLANK-WATER-REF-4

Tot Ion: 43 Resp: 645

Ion Ratio Lower Upper

43 100

72 37.0 20.8 31.2#



#29

Tetrahydrofuran

Concen: 0.383 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

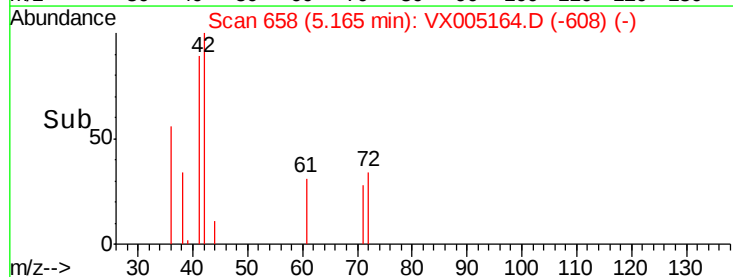
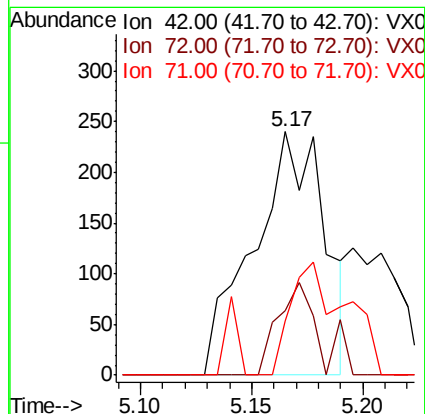
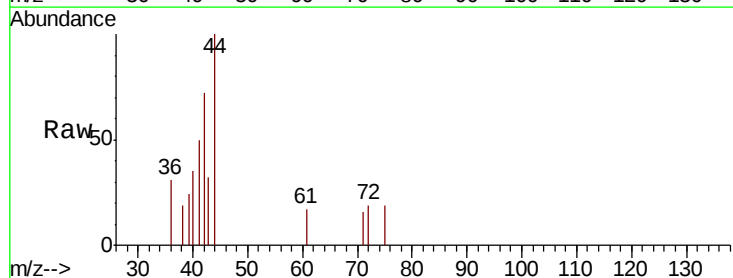
Tgt Ion: 42 Resp: 534

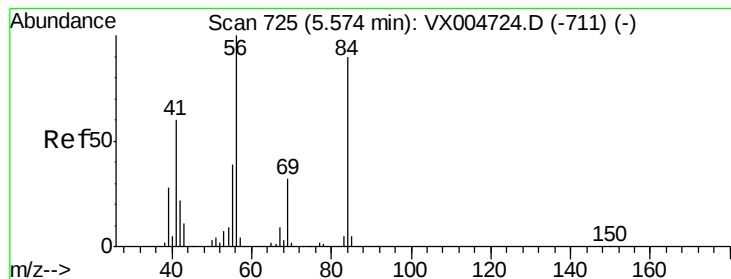
Ion Ratio Lower Upper

42 100

72 22.1 33.7 50.5#

71 35.6 32.2 48.4





#31

Cyclohexane

Concen: 1.134 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

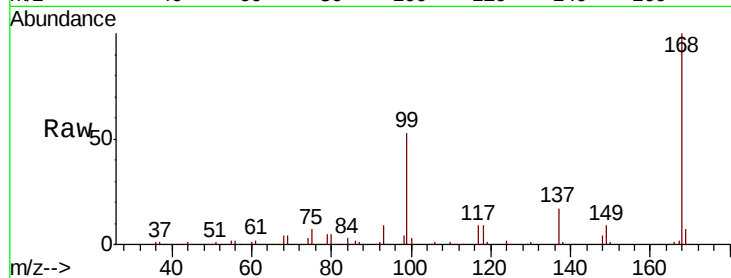
Tot Ion: 56 Resp: 3761

Ion Ratio Lower Upper

56 100

69 171.6 25.9 38.9#

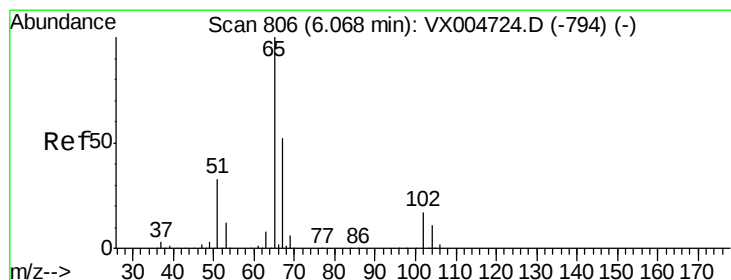
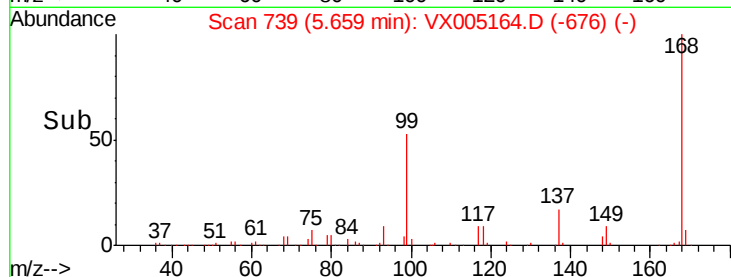
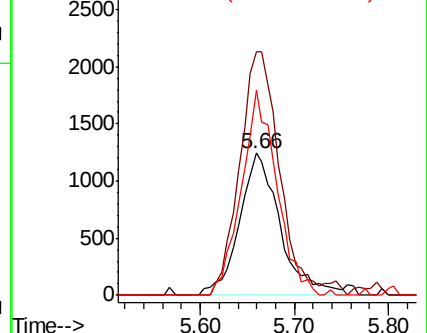
84 144.4 71.9 107.9#



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: 53.614 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005164.D

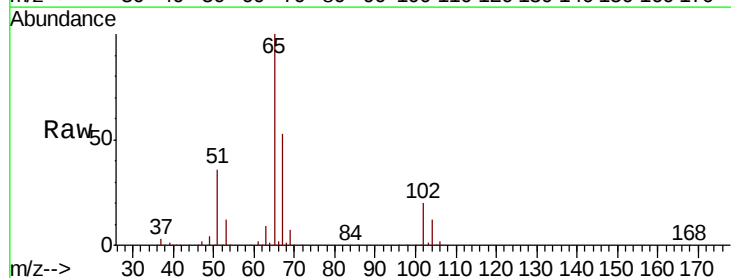
Acq: 09 Oct 2018 17:35

Tgt Ion: 65 Resp: 139805

Ion Ratio Lower Upper

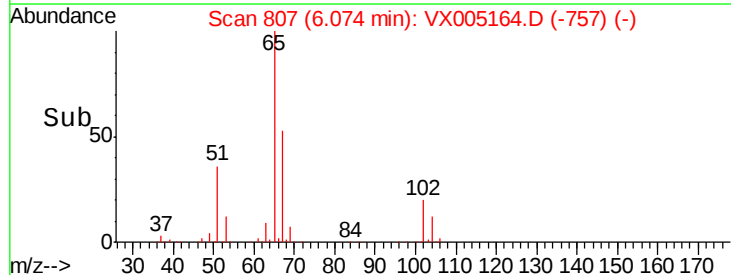
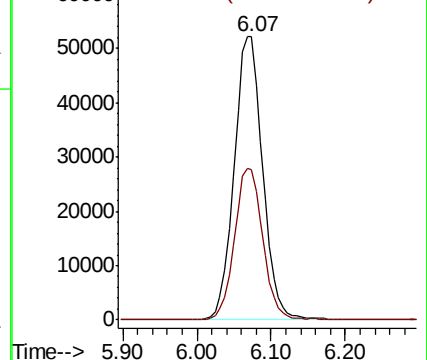
65 100

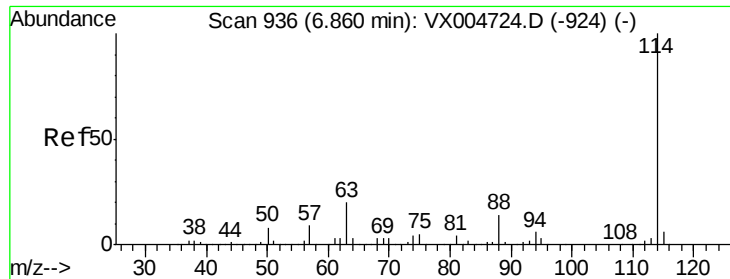
67 53.0 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

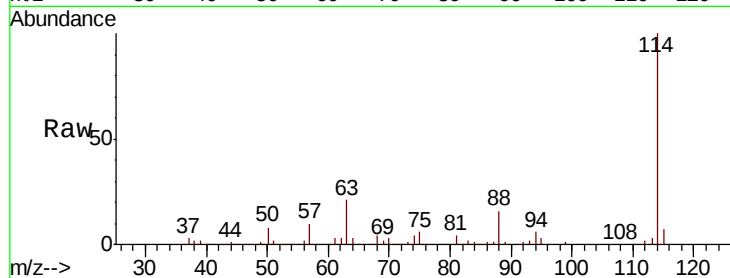




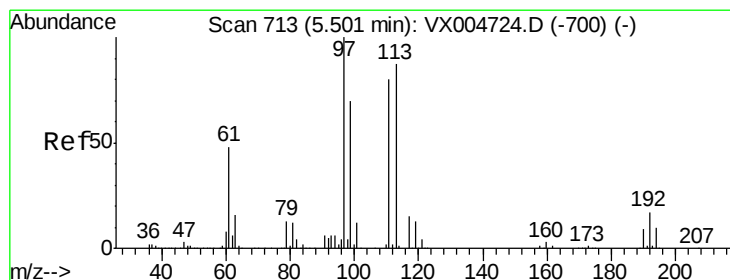
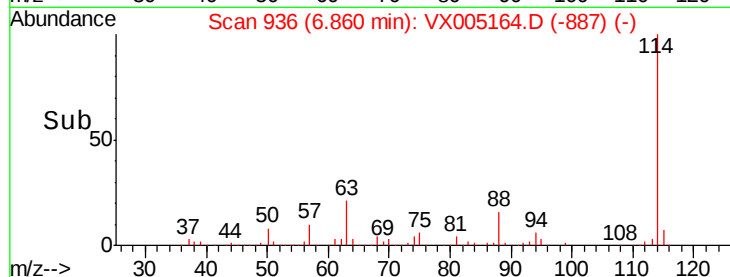
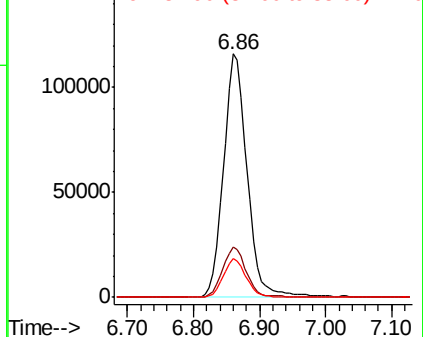
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005164.D
 Acq: 09 Oct 2018 17:35

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Tot Ion:114 Resp: 287276
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 39.8
 88 15.7 0.0 27.0

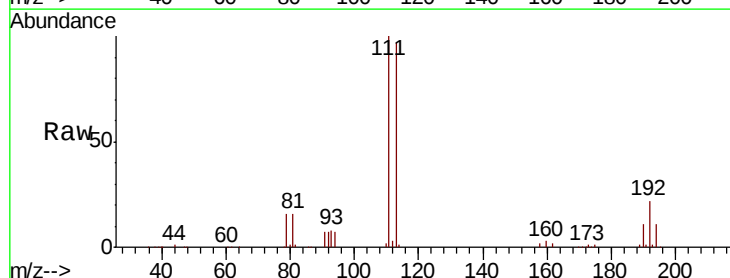


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

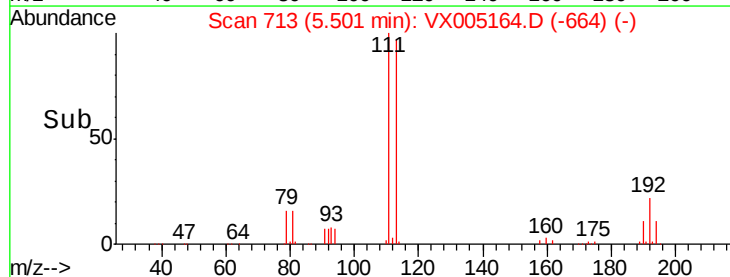
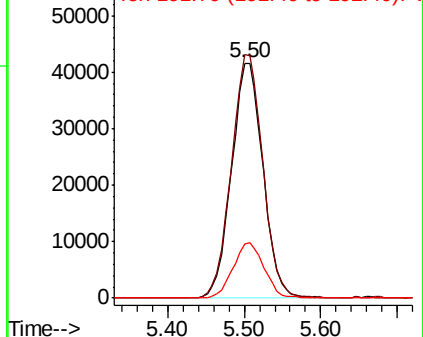


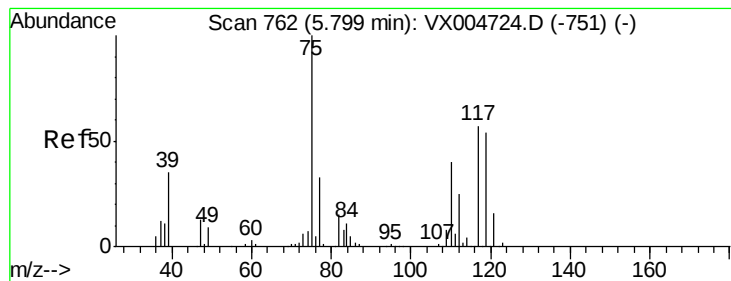
#35
 Dibromofluoromethane
 Concen: 48.585 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005164.D
 Acq: 09 Oct 2018 17:35

Tgt Ion:113 Resp: 118291
 Ion Ratio Lower Upper
 113 100
 111 103.5 77.0 115.4
 192 23.2 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: 3.884 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

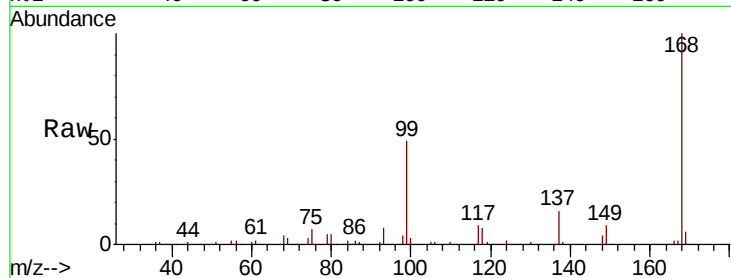
Tot Ion: 75 Resp: 12903

Ion Ratio Lower Upper

75 100

110 10.1 20.0 59.9#

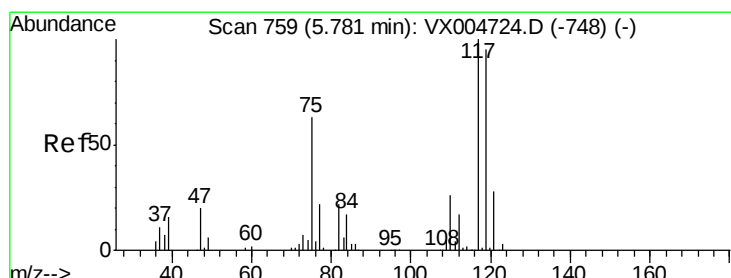
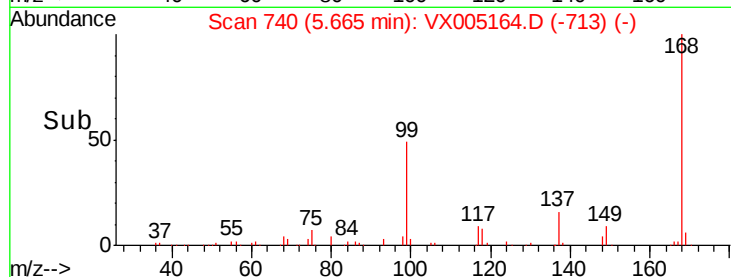
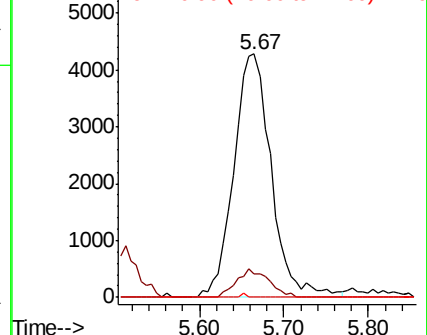
77 0.2 27.1 40.7#



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: 4.820 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

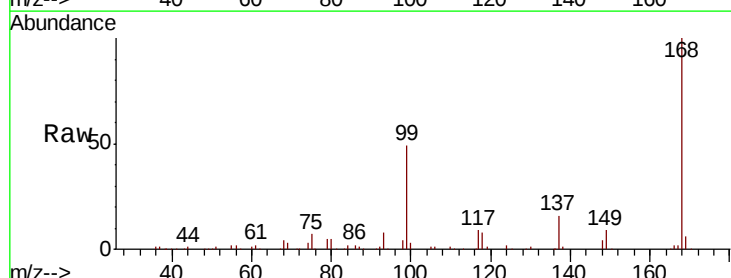
Tgt Ion: 117 Resp: 16832

Ion Ratio Lower Upper

117 100

119 5.8 75.2 112.8#

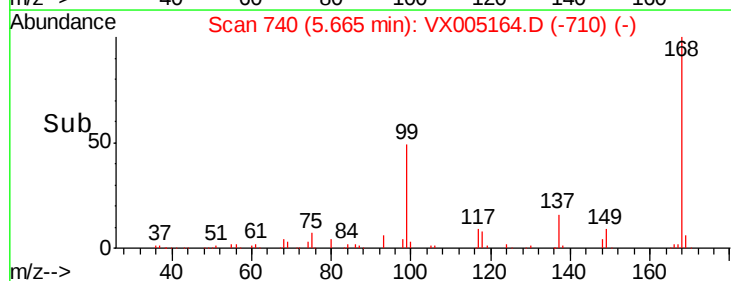
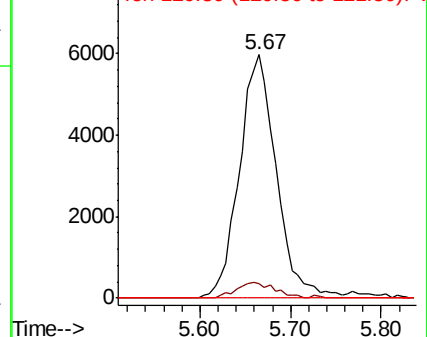
121 0.0 22.5 33.7#

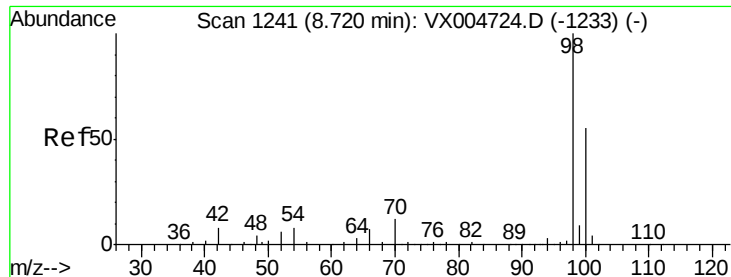


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

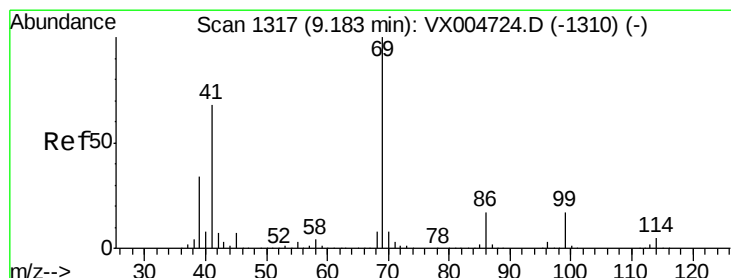
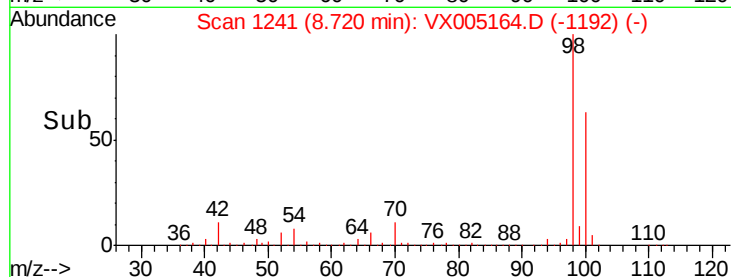
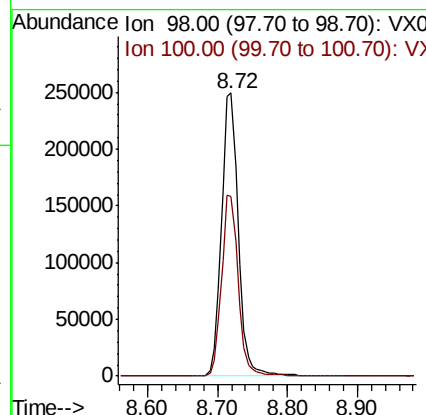
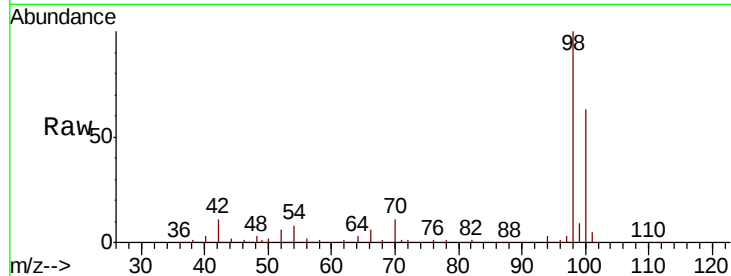




#50
Toluene-d8
Concen: 51.676 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

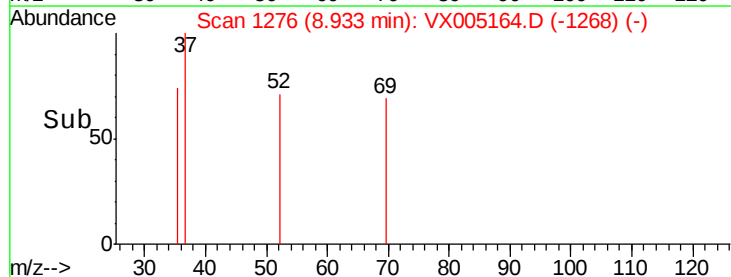
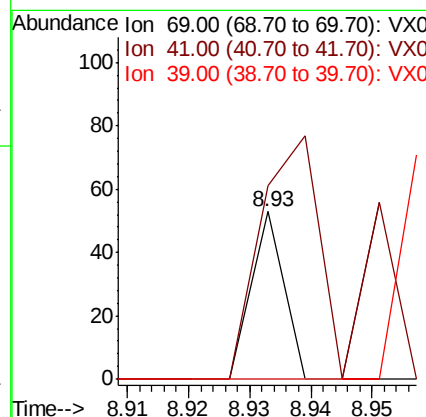
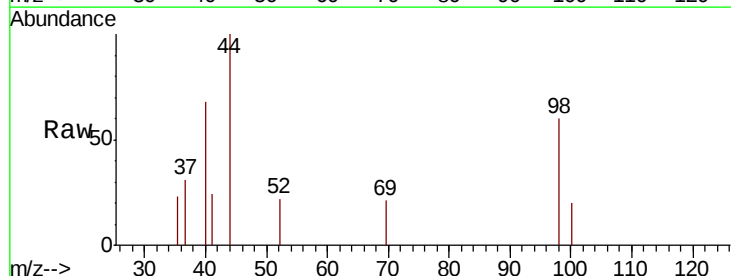
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

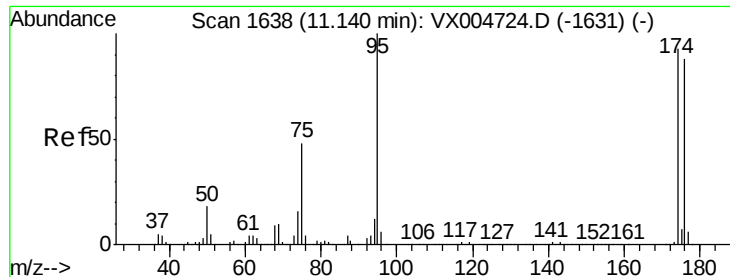
Tot Ion: 98 Resp: 418271
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.866 ug/l
RT: 8.93 min Scan# 1276
Delta R.T. -0.25 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

Tgt Ion: 69 Resp: 19
Ion Ratio Lower Upper
69 100
41 263.2 56.9 85.3#
39 0.0 28.4 42.6#

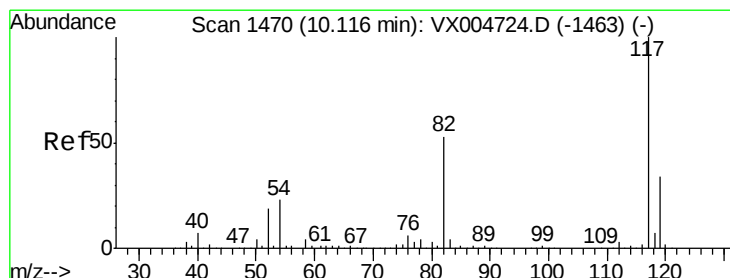
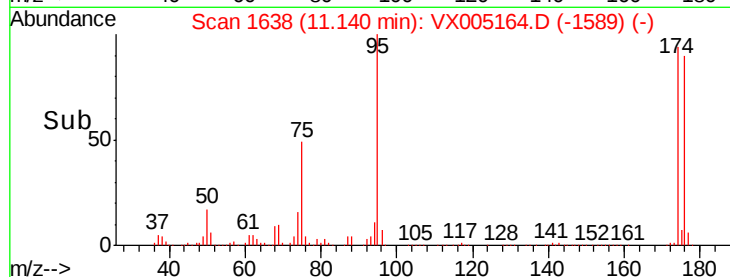
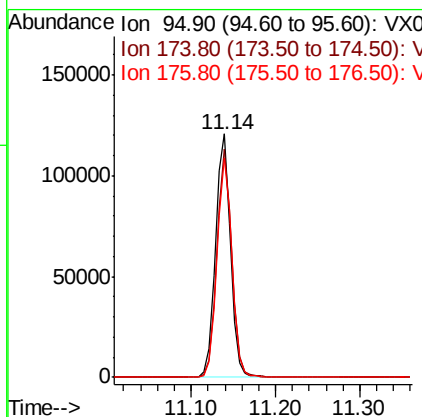
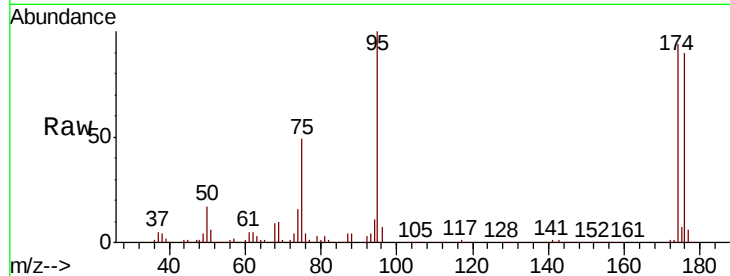




#62
4-Bromofluorobenzene
Concen: 51.223 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

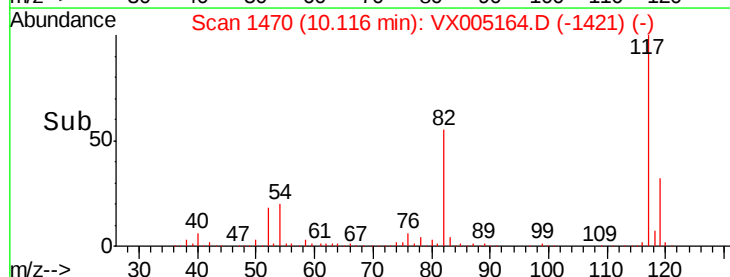
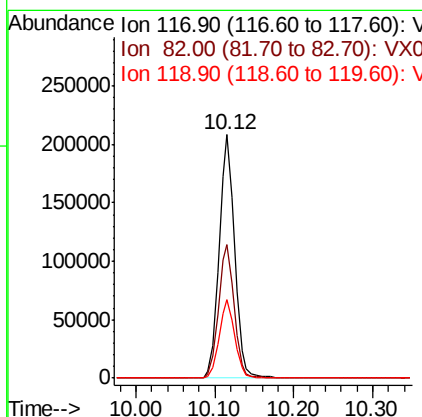
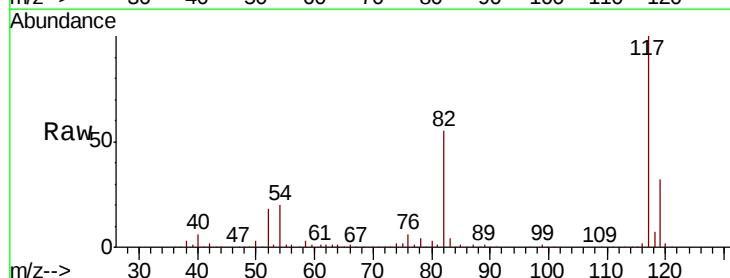
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

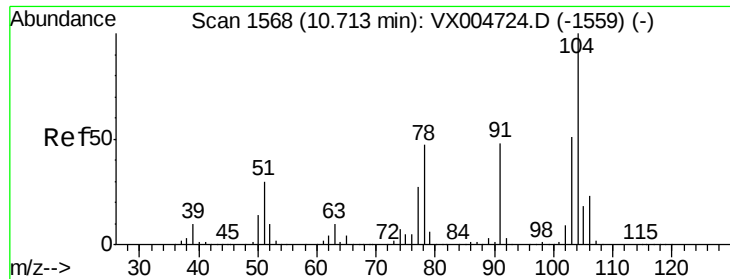
Tot Ion: 95 Resp: 149364
Ion Ratio Lower Upper
95 100
174 93.6 0.0 185.0
176 89.7 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

Tgt Ion: 117 Resp: 285223
Ion Ratio Lower Upper
117 100
82 54.9 42.2 63.4
119 32.3 27.4 41.0

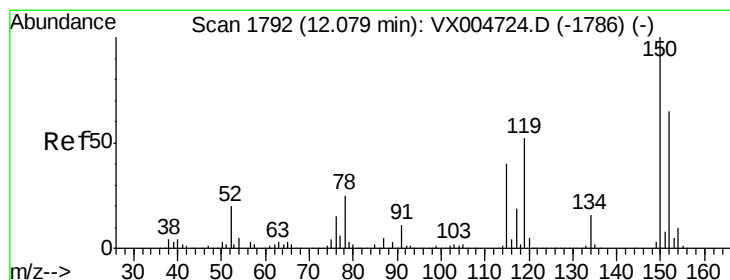
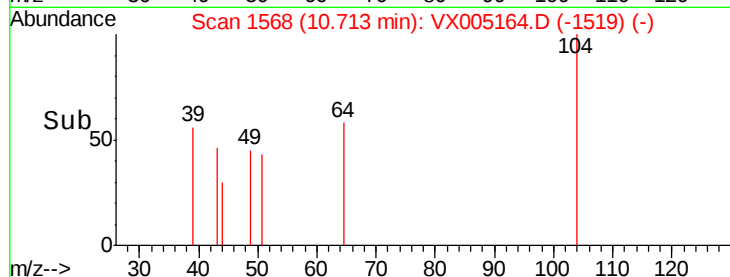
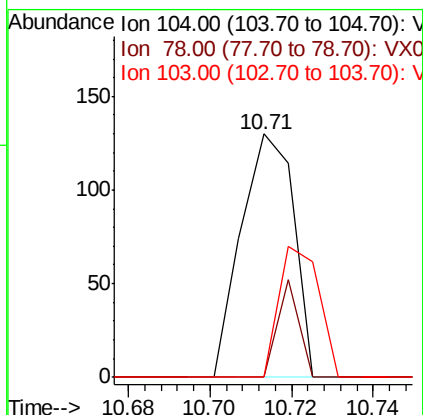
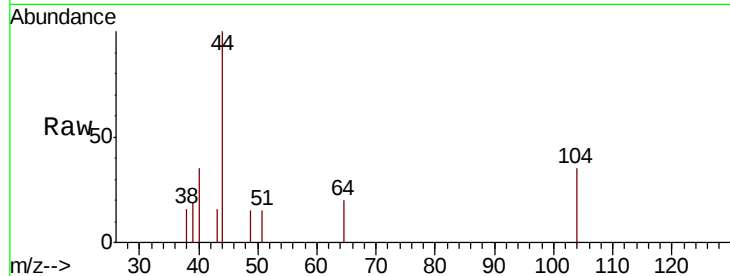




#70
Stvrene
Concen: 2.155 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

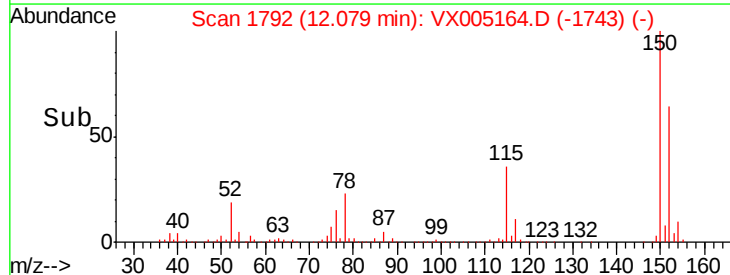
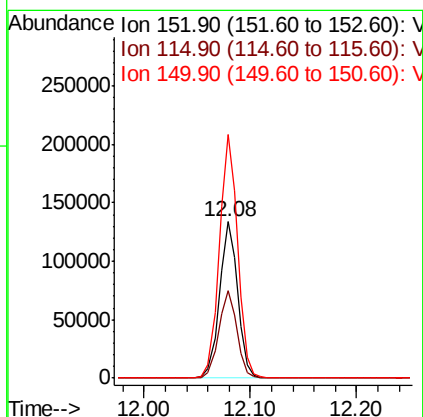
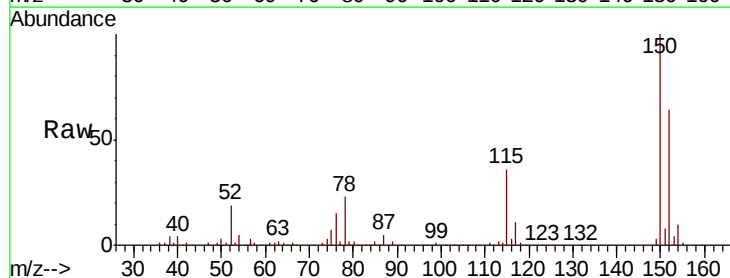
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

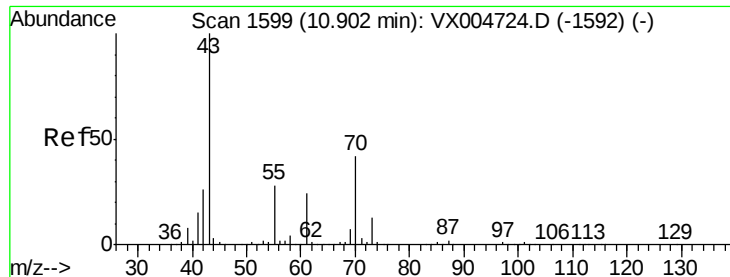
Tot Ion:104 Resp: 116
Ion Ratio Lower Upper
104 100
78 16.4 40.0 60.0#
103 41.4 44.3 66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005164.D
Acq: 09 Oct 2018 17:35

Tgt Ion:152 Resp: 158217
Ion Ratio Lower Upper
152 100
115 55.8 40.2 120.6
150 157.2 0.0 351.0





#74

N-amvl acetate

Concen: 1.757 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

Tot Ion: 43 Resp: 53

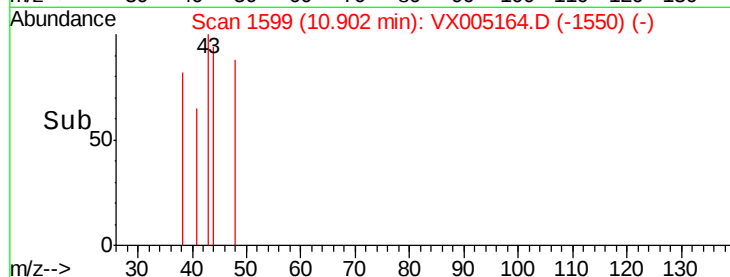
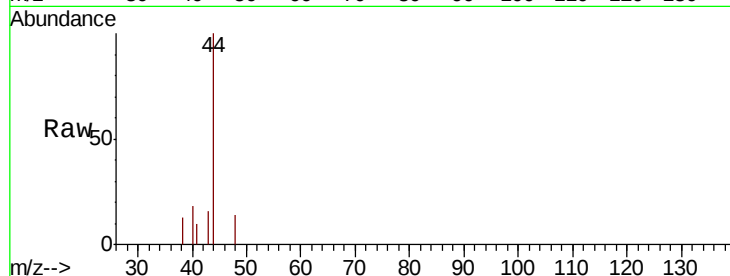
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

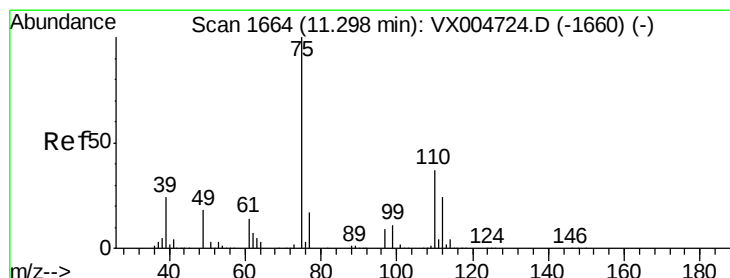
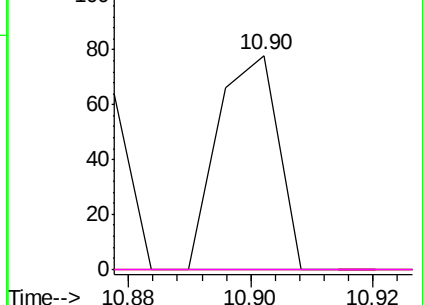


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.902 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005164.D

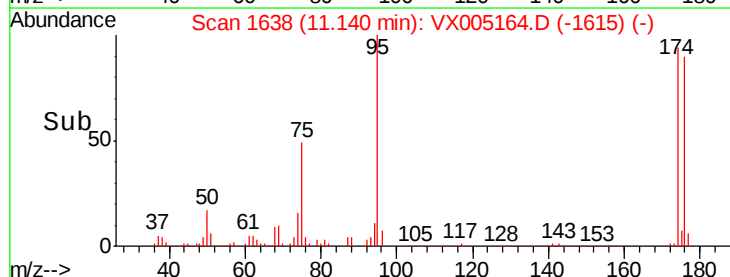
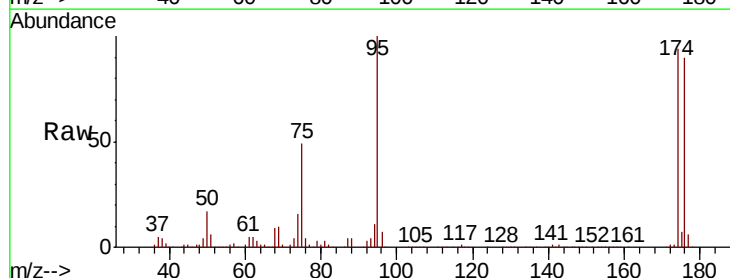
Acq: 09 Oct 2018 17:35

Tgt Ion: 75 Resp: 74122

Ion Ratio Lower Upper

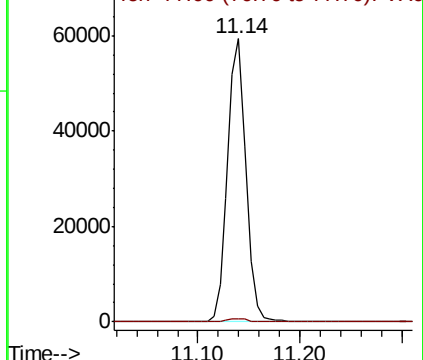
75 100

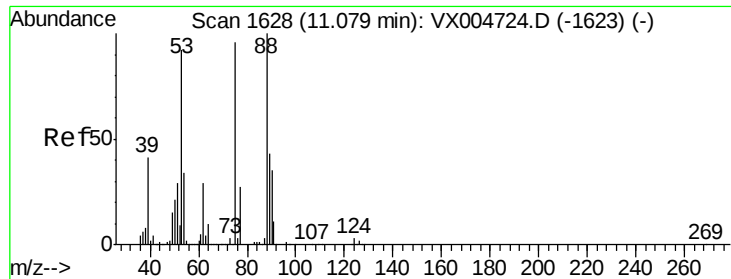
77 1.3 21.4 64.3#



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: 56.728 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

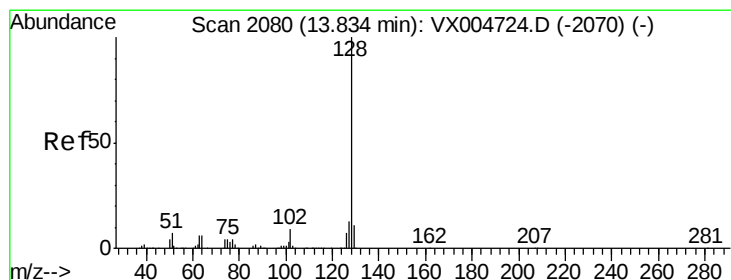
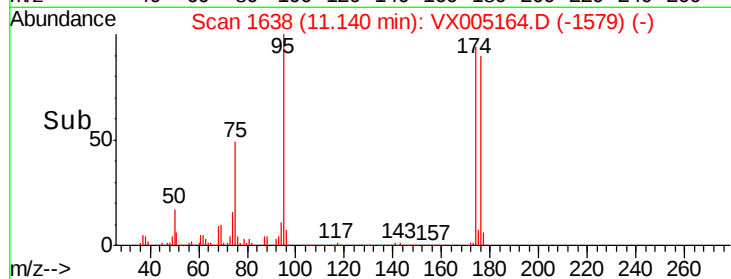
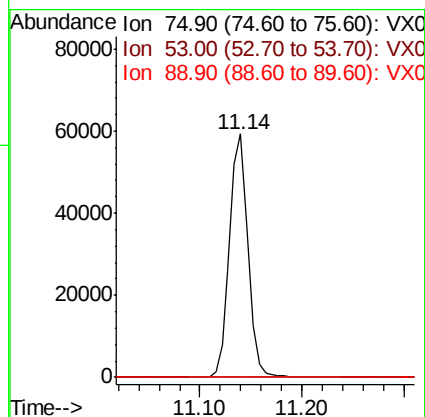
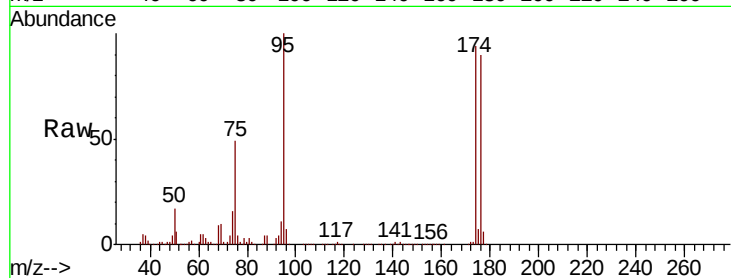
Tot Ion: 75 Resp: 74122

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

89 0.0 37.1 55.7#



#95

Naphthalene

Concen: 0.757 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005164.D

Acq: 09 Oct 2018 17:35

Tgt Ion: 128 Resp: 501

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

