

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092718\
 Data File : VX004768.D
 Acq On : 27 Sep 2018 12:36
 Operator : JC/MD
 Sample : J5048-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-1-SEP18

Quant Time: Sep 28 05:48:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	268992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	435692	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	421356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	236959	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	198679	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
35) Dibromofluoromethane	5.50	113	166935	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	
50) Toluene-d8	8.71	98	625703	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	11.14	95	226853	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	

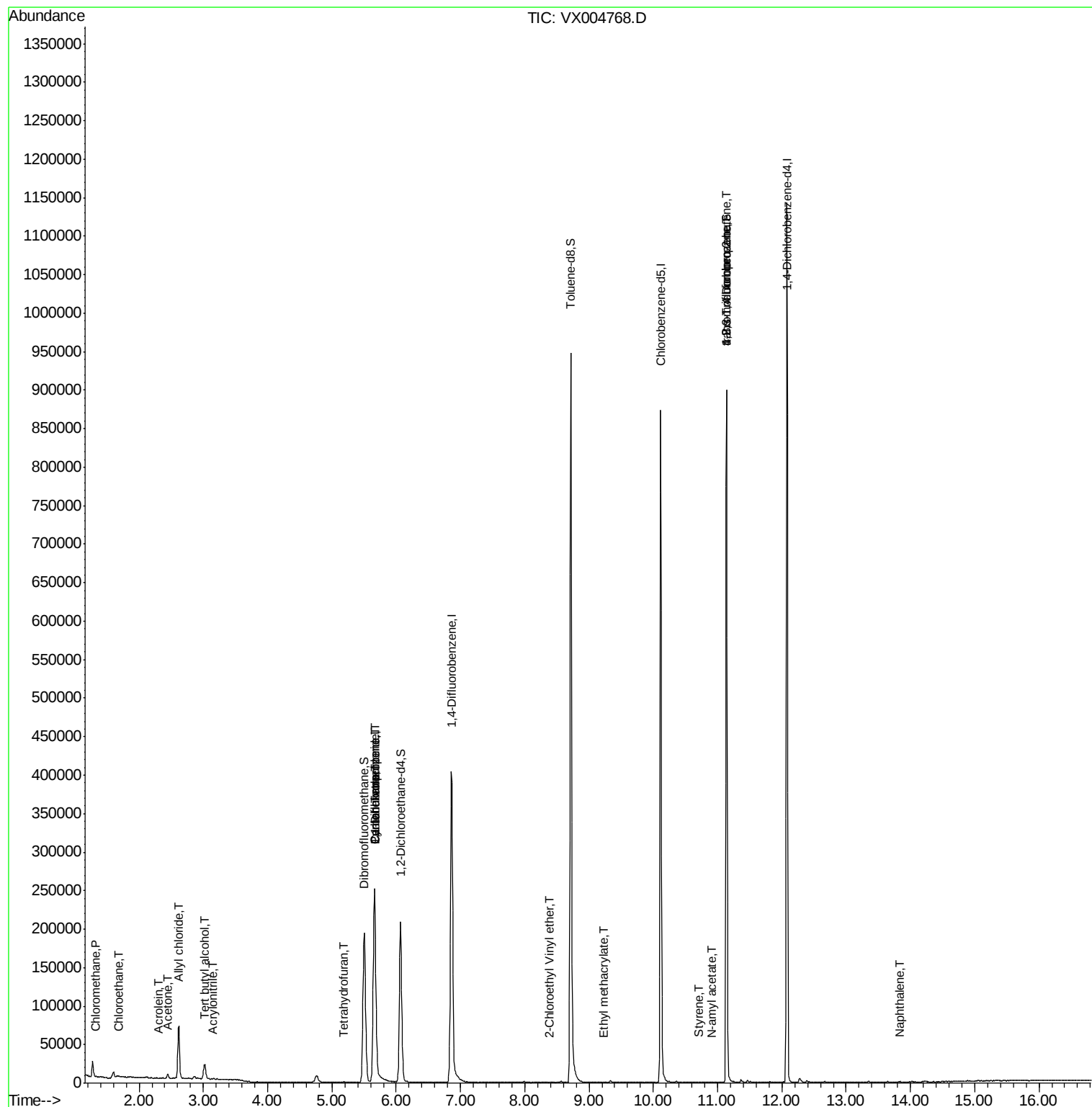
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	923	0.207	ug/l	100
6) Chloroethane	1.70	64	7093	0.830	ug/l #	60
11) Tert butyl alcohol	3.02	59	12657	11.780	ug/l #	82
13) Acrolein	2.30	56	228	0.298	ug/l #	16
14) Allyl chloride	2.61	41	6828	1.074	ug/l #	65
15) Acrylonitrile	3.15	53	480	0.203	ug/l #	60
16) Acetone	2.45	43	5875	2.619	ug/l	91
20) Methylene Chloride	2.85	84	1527	Below Cal	#	92
29) Tetrahydrofuran	5.18	42	891	0.434	ug/l #	58
31) Cyclohexane	5.66	56	5044	1.032	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	17543	3.482	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23431	4.424	ug/l #	15
56) Ethyl methacrylate	9.24	69	20	2.865	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.38	63	20	14.248	ug/l #	45
70) Styrene	10.71	104	168	2.154	ug/l #	87
74) N-amyl acetate	10.91	43	104	1.760	ug/l #	40
76) 1,2,3-Trichloropropane	11.14	75	111372	20.970	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	299	Below Cal		89
81) trans-1,4-Dichloro-2-buten	11.14	75	111372	56.906	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	381	Below Cal		87
95) Naphthalene	13.84	128	691	0.754	ug/l	95

(#) = 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: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

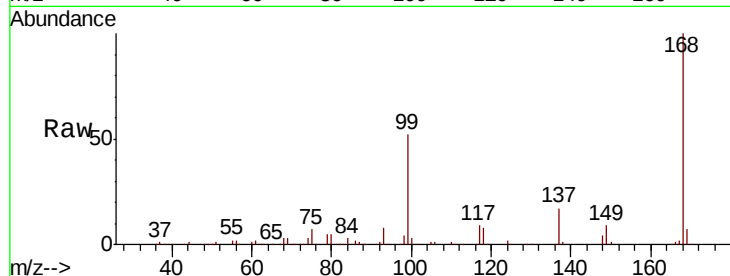
FB-1-SEP18

Tot Ion:168 Resp: 268992

Ion Ratio Lower Upper

168 100

99 52.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

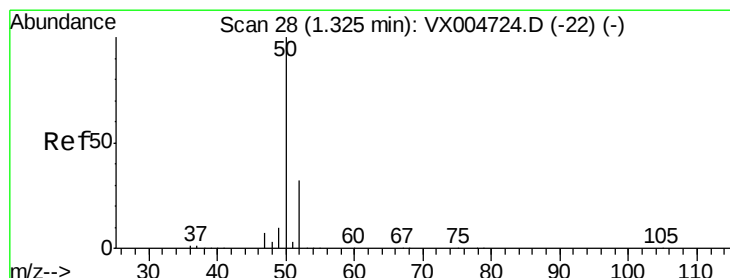
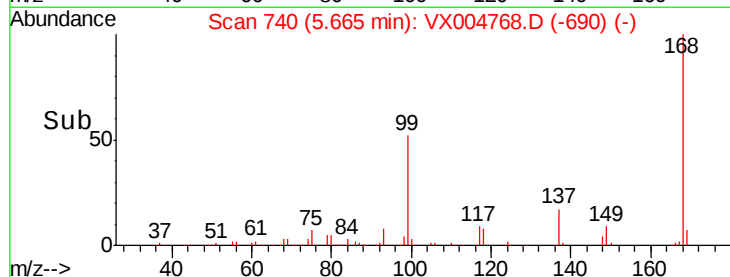
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX004768.D

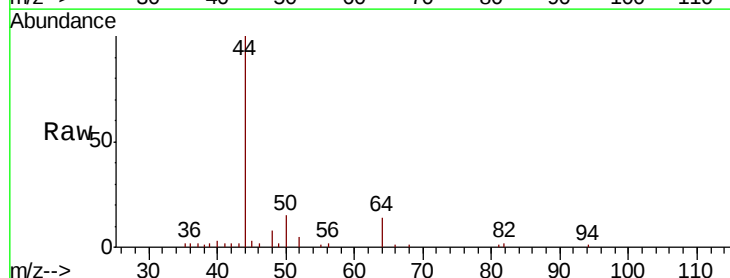
Acq: 27 Sep 2018 12:36

Tgt Ion: 50 Resp: 923

Ion Ratio Lower Upper

50 100

52 32.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

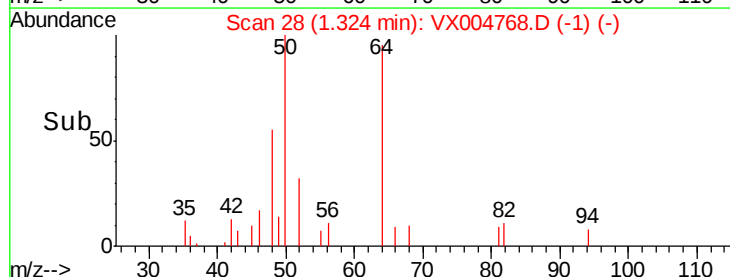
400

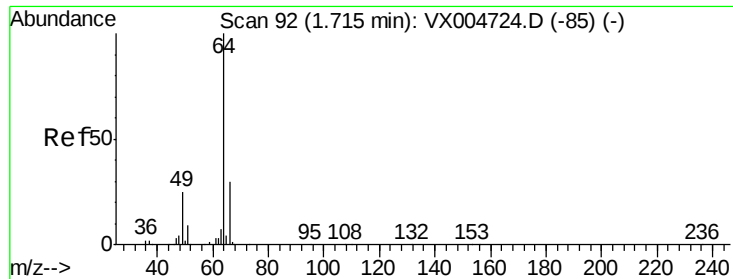
200

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: 0.830 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

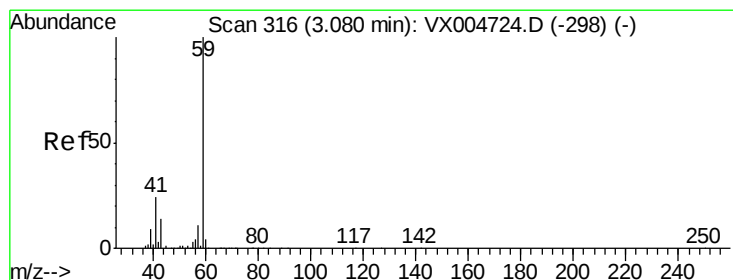
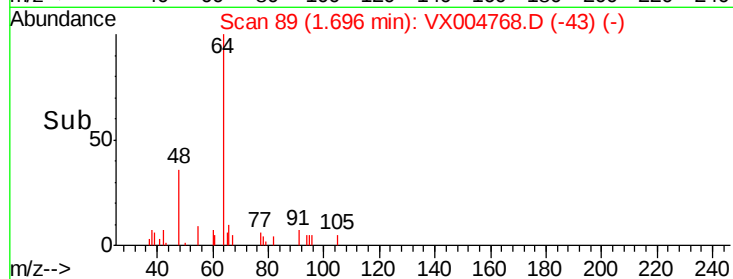
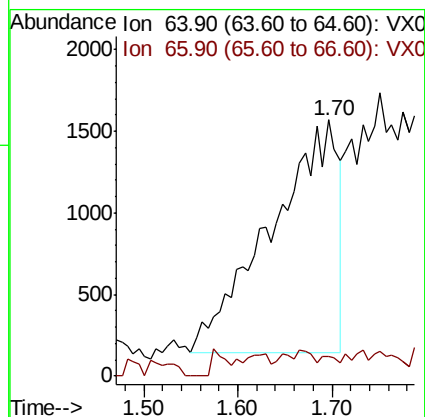
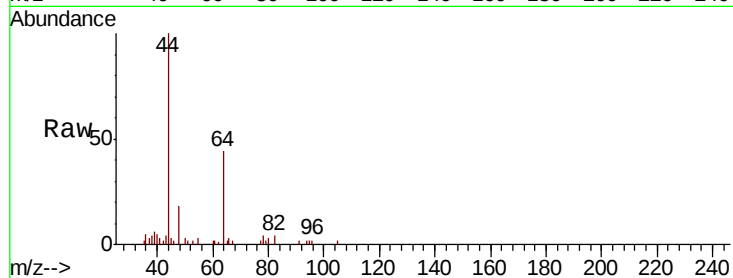
FB-1-SEP18

Tot Ion: 64 Resp: 7093

Ion Ratio Lower Upper

64 100

66 8.6 24.6 36.8#



#11

Tert butyl alcohol

Concen: 11.780 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004768.D

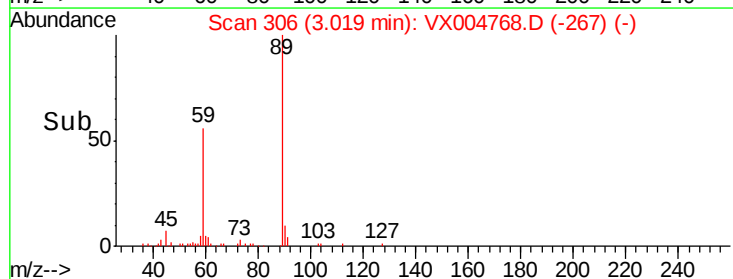
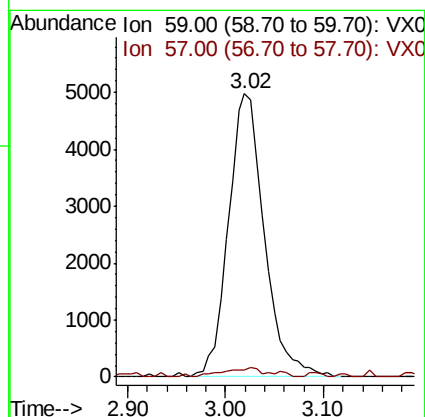
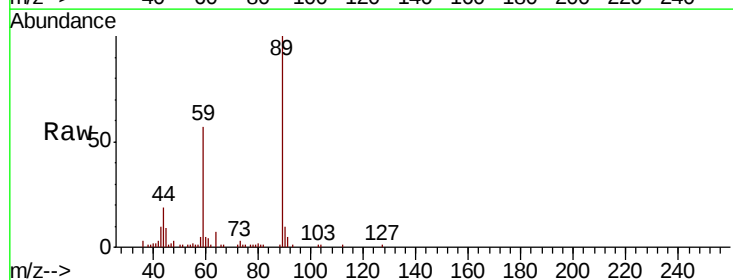
Acq: 27 Sep 2018 12:36

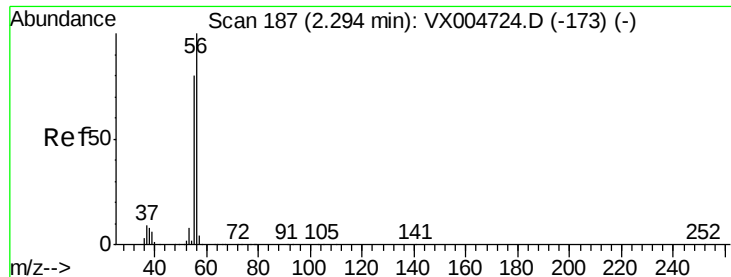
Tgt Ion: 59 Resp: 12657

Ion Ratio Lower Upper

59 100

57 3.5 8.2 12.4#

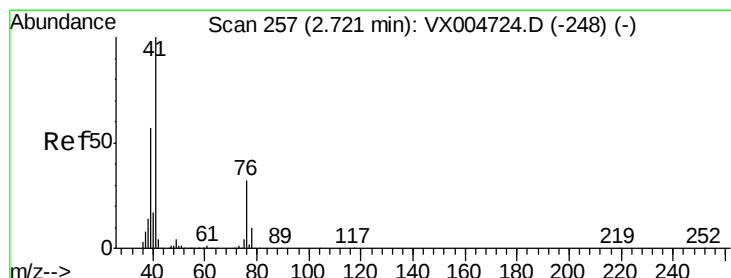
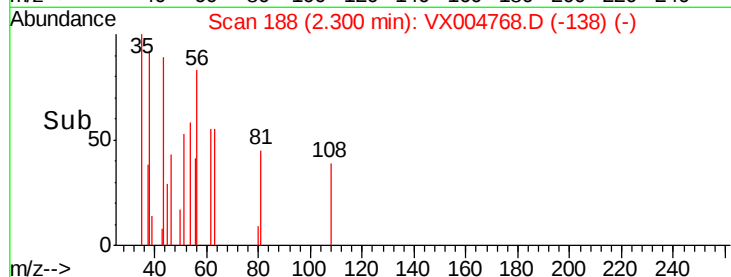
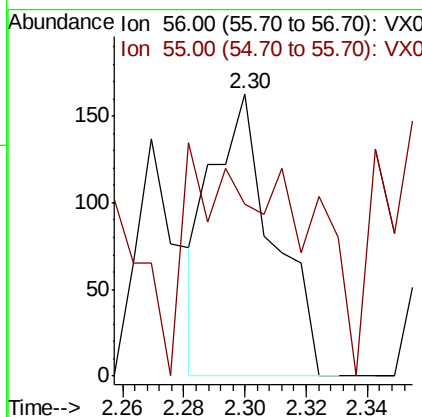
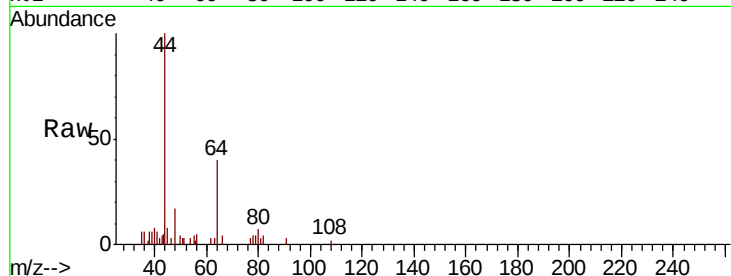




#13
Acrolein
Concen: 0.298 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

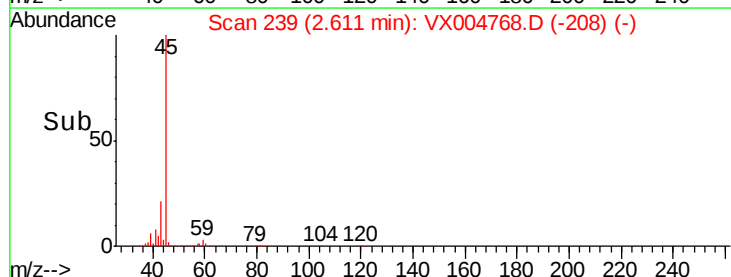
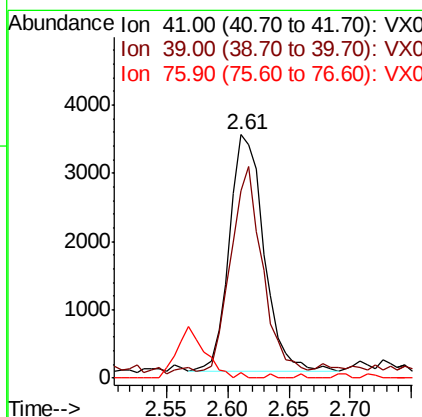
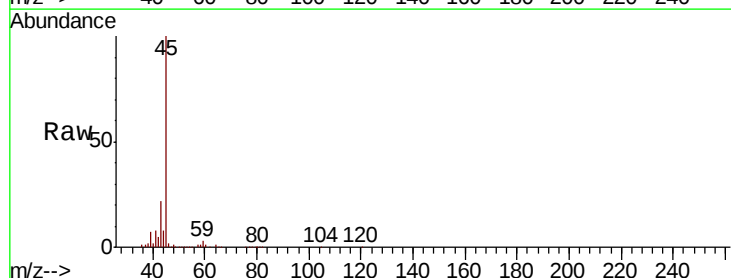
Instrument :
MSVOA_X
ClientSampleId :
FB-1-SEP18

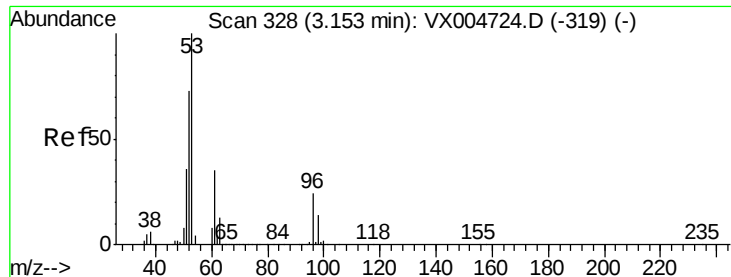
Tot Ion: 56 Resp: 228
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#



#14
Allyl chloride
Concen: 1.074 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.11 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Tgt Ion: 41 Resp: 6828
Ion Ratio Lower Upper
41 100
39 78.0 48.9 73.3#
76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

FB-1-SEP18

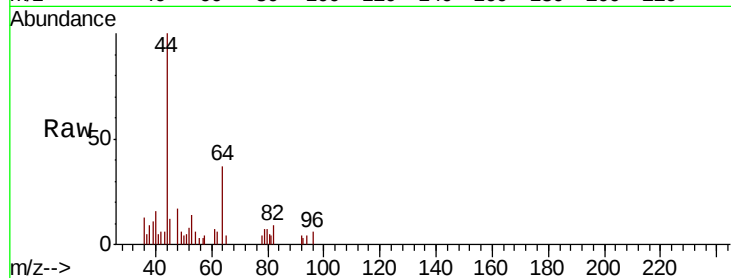
Tot Ion: 53 Resp: 480

Ion Ratio Lower Upper

53 100

52 31.9 65.2 97.8#

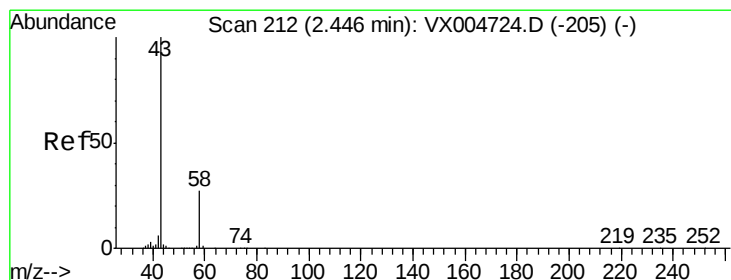
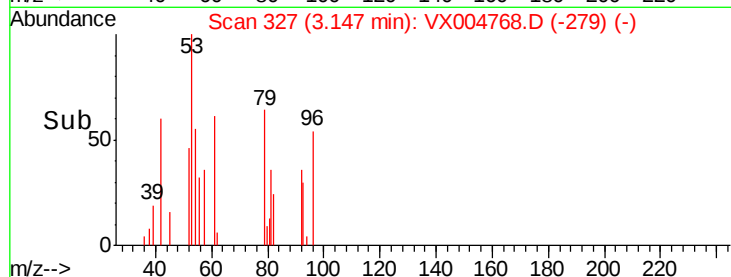
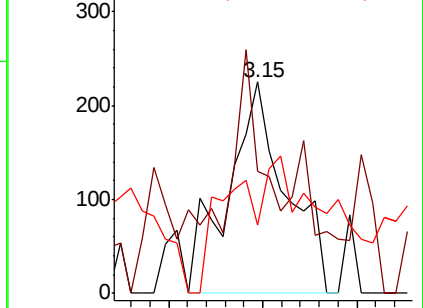
51 38.3 28.2 42.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.619 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004768.D

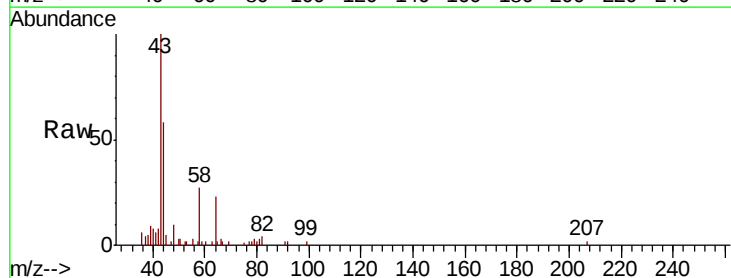
Acq: 27 Sep 2018 12:36

Tgt Ion: 43 Resp: 5875

Ion Ratio Lower Upper

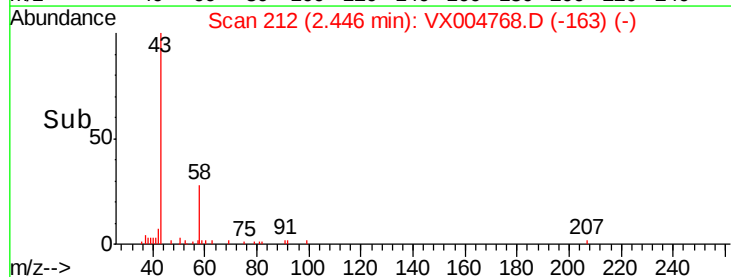
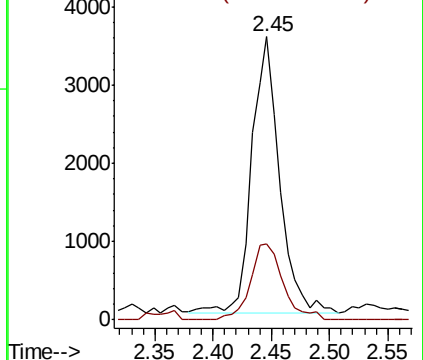
43 100

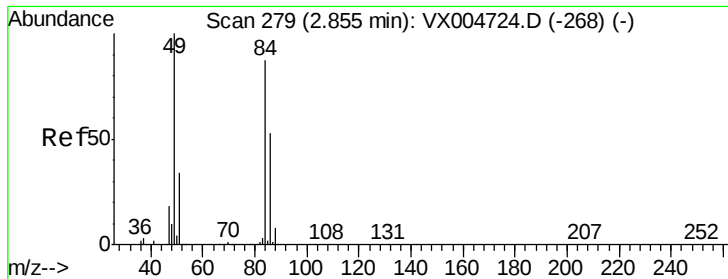
58 27.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

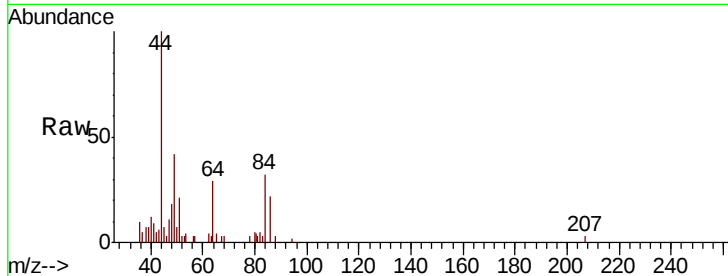




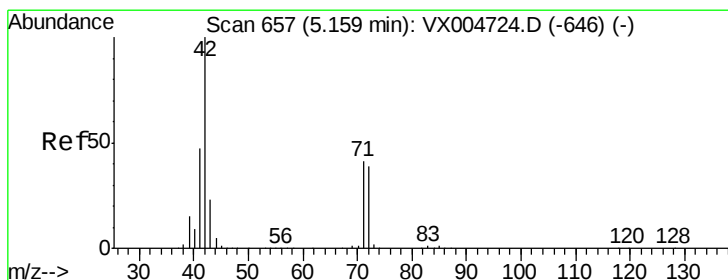
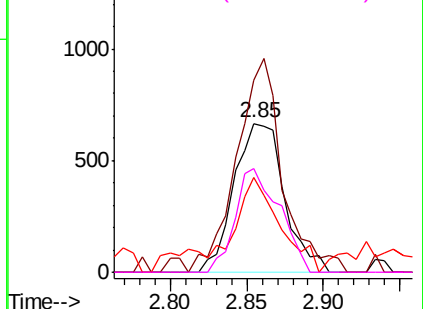
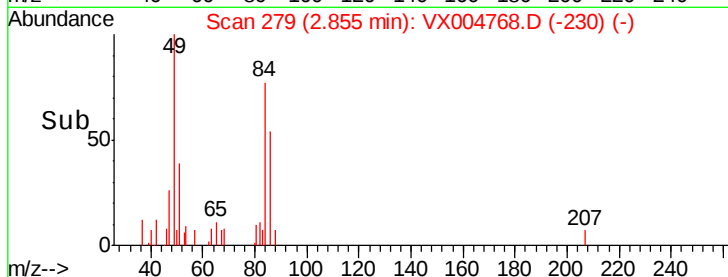
#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Instrument :
MSVOA_X
ClientSampled :
FB-1-SEP18

Tot Ion: 84 Resp: 1527
Ion Ratio Lower Upper
84 100
49 120.2 101.2 151.8
51 51.8 29.5 44.3#
86 69.3 52.3 78.5

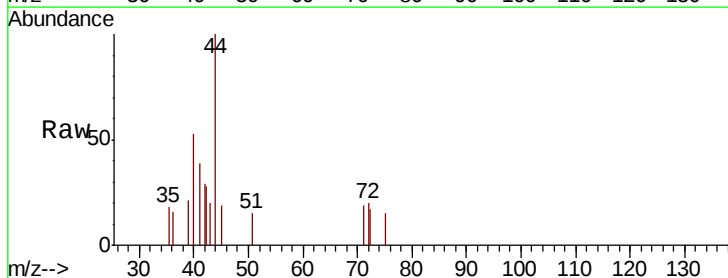


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

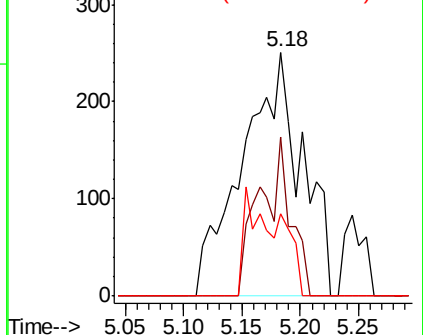
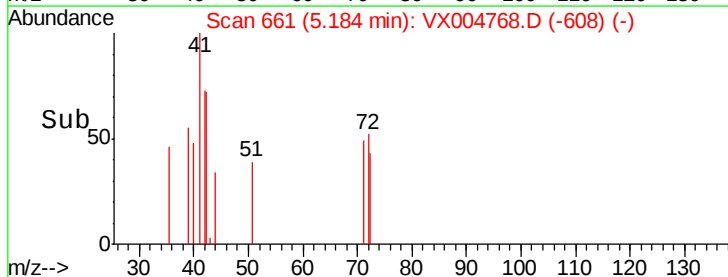


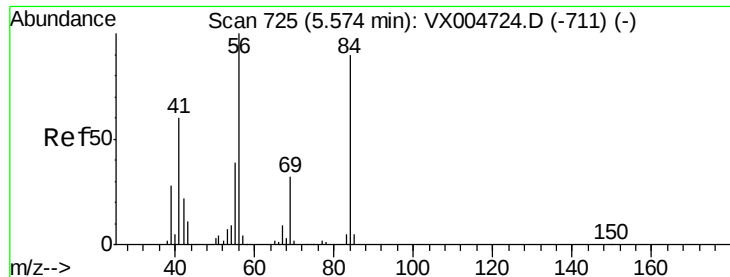
#29
Tetrahydrofuran
Concen: 0.434 ug/l
RT: 5.18 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Tgt Ion: 42 Resp: 891
Ion Ratio Lower Upper
42 100
72 33.7 37.4 56.0#
71 0.0 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

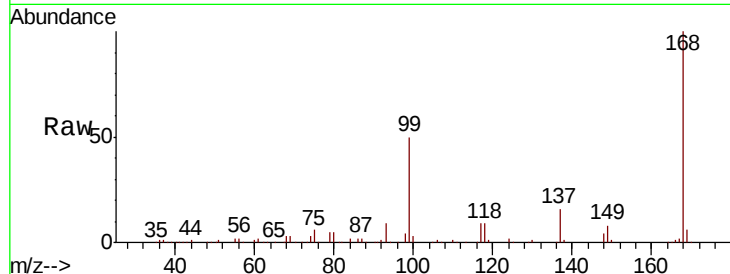




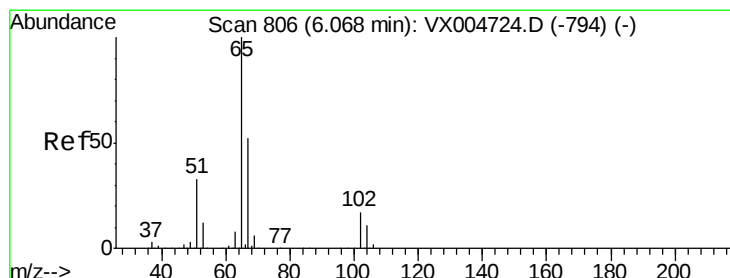
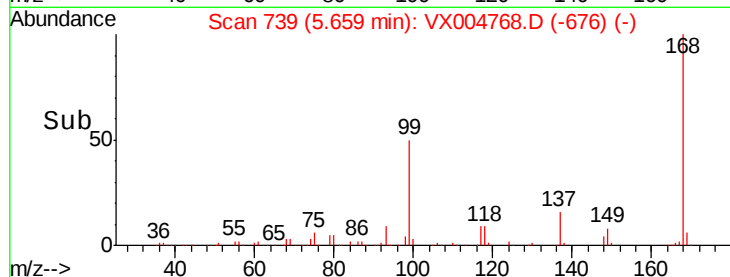
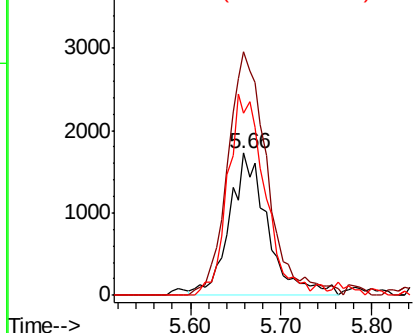
#31
Cyclohexane
Concen: 1.032 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :
FB-1-SEP18

Tot Ion: 56 Resp: 5044
Ion Ratio Lower Upper
56 100
69 171.4 25.4 38.2#
84 128.3 71.4 107.2#

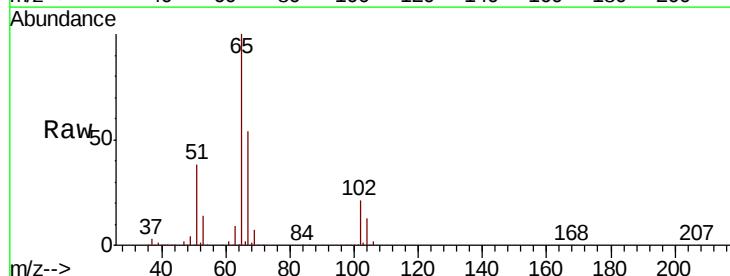


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

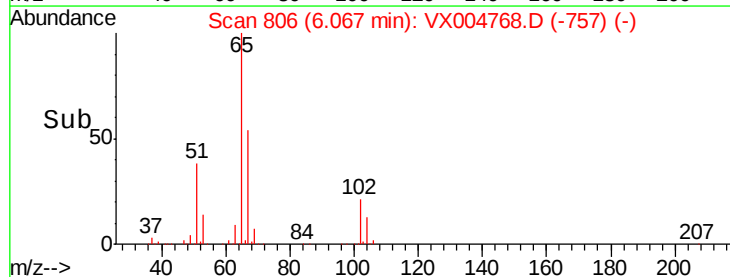
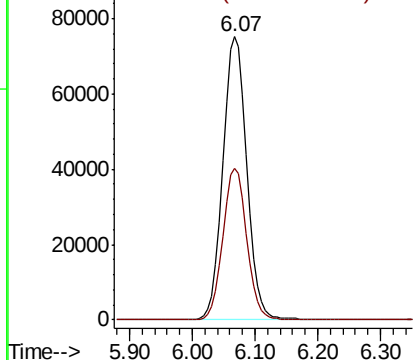


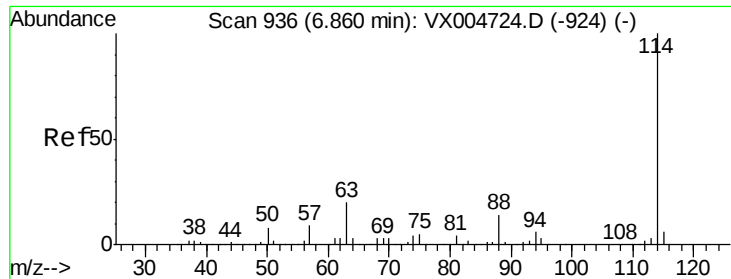
#33
1,2-Dichloroethane-d4
Concen: 51.705 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Tgt Ion: 65 Resp: 198679
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.8



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

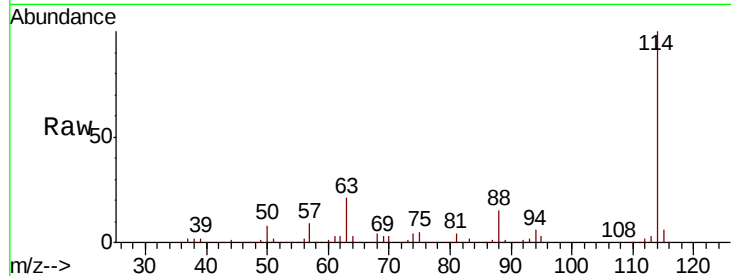




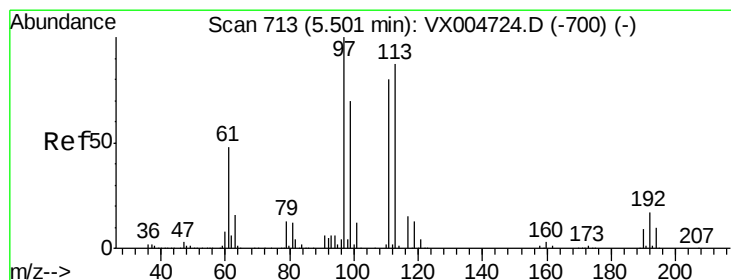
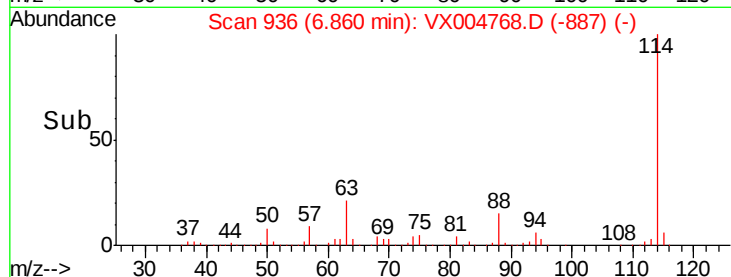
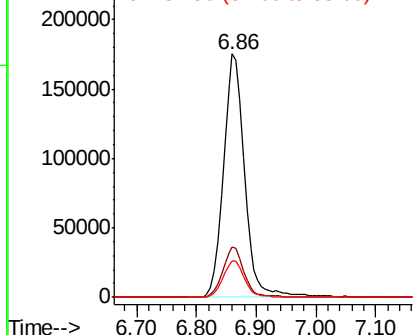
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004768.D
 Acq: 27 Sep 2018 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-1-SEP18

Tot Ion:114 Resp: 435692
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.0
 88 15.1 0.0 30.4

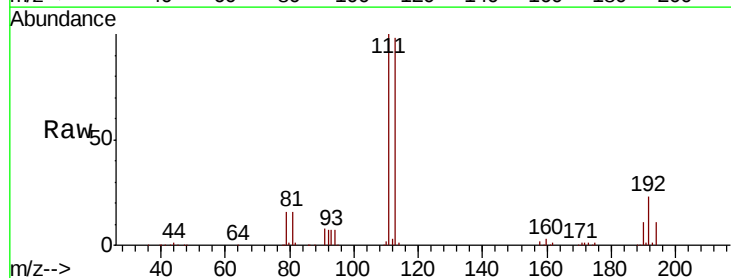


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

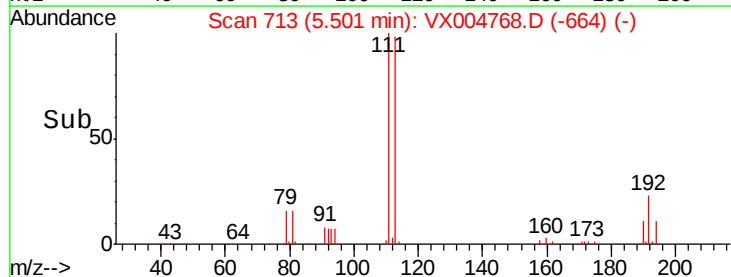
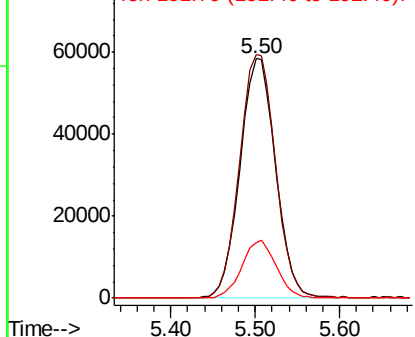


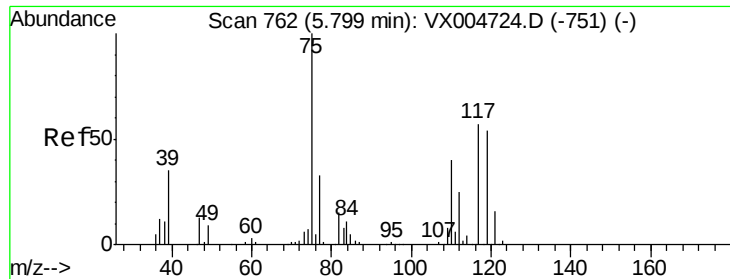
#35
 Dibromofluoromethane
 Concen: 45.209 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004768.D
 Acq: 27 Sep 2018 12:36

Tgt Ion:113 Resp: 166935
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 23.4 19.4 29.2



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





#36

1,1-Dichloropropene

Concen: 3.482 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

FB-1-SEP18

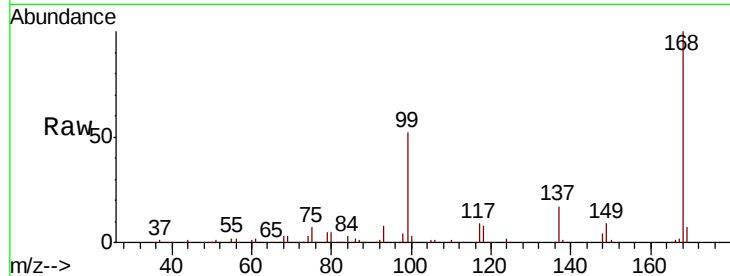
Tot Ion: 75 Resp: 17543

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

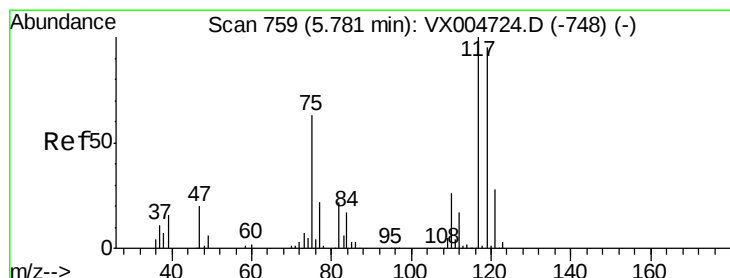
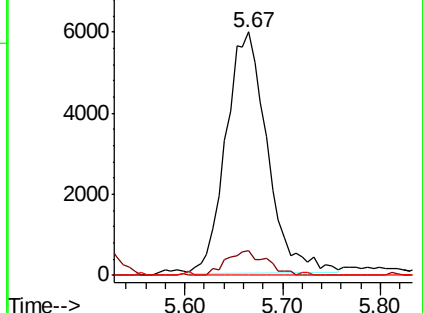
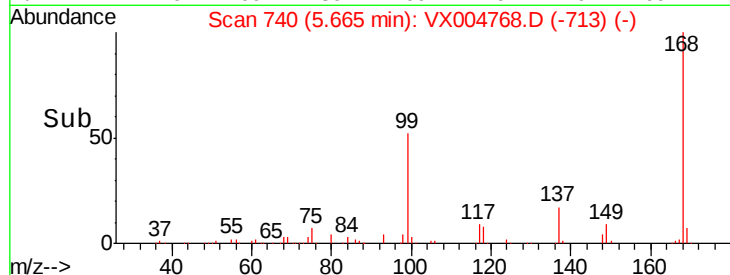
77 0.0 24.6 36.8#



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: 4.424 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

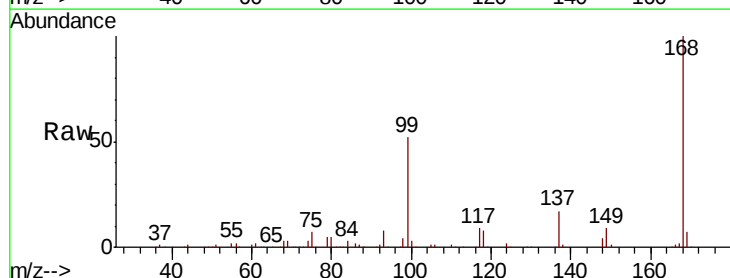
Tgt Ion: 117 Resp: 23431

Ion Ratio Lower Upper

117 100

119 5.4 78.8 118.2#

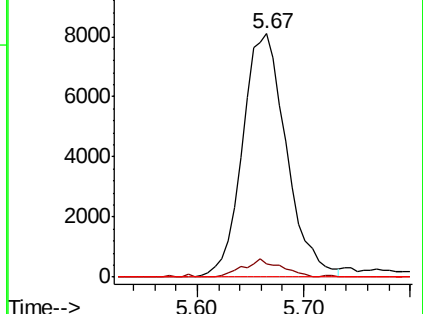
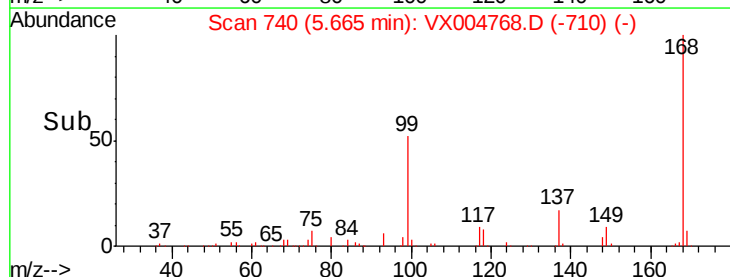
121 0.0 24.9 37.3#

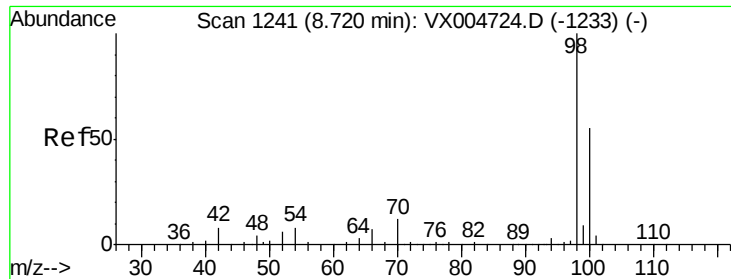


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

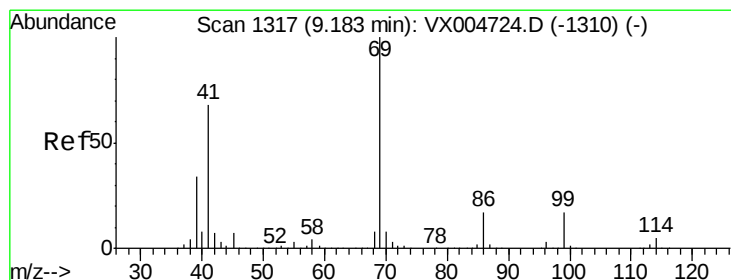
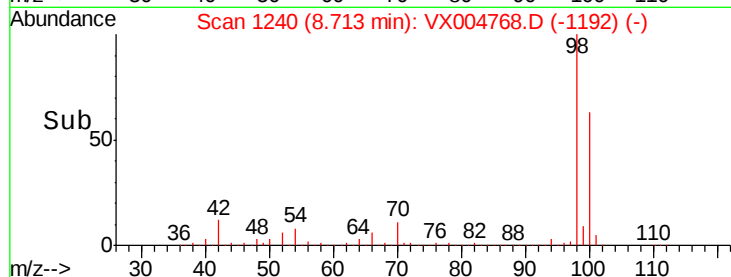
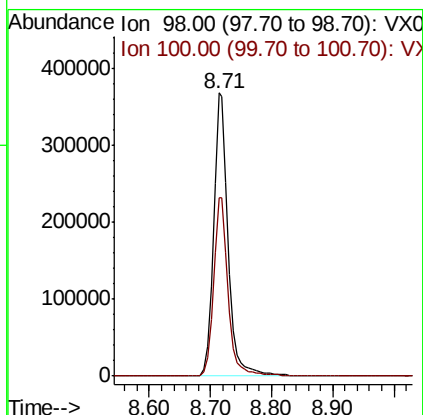
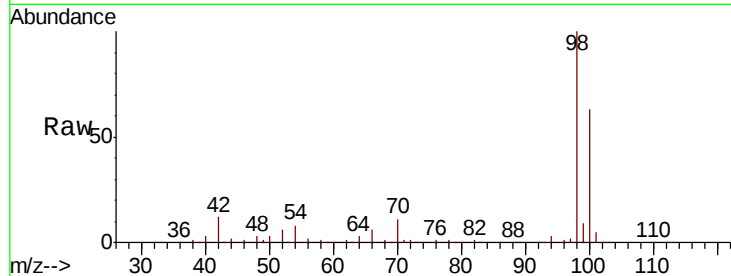




#50
Toluene-d8
Concen: 50.970 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

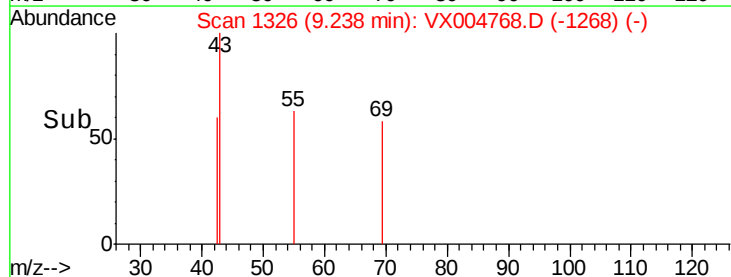
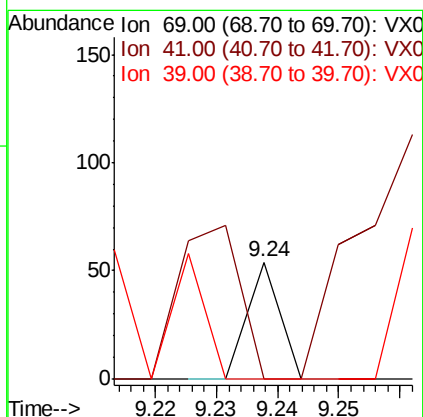
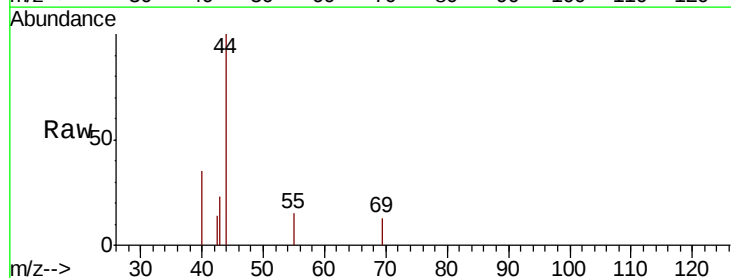
Instrument :
MSVOA_X
ClientSampleId :
FB-1-SEP18

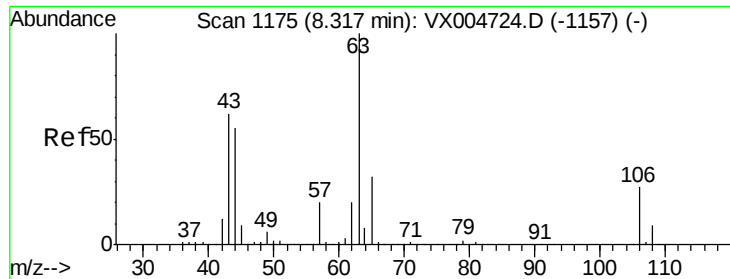
Tot Ion: 98 Resp: 625703
Ion Ratio Lower Upper
98 100
100 63.2 52.9 79.3



#56
Ethyl methacrylate
Concen: 2.865 ug/l
RT: 9.24 min Scan# 1326
Delta R.T. 0.06 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Tgt Ion: 69 Resp: 20
Ion Ratio Lower Upper
69 100
41 245.0 51.0 76.4#
39 0.0 26.1 39.1#

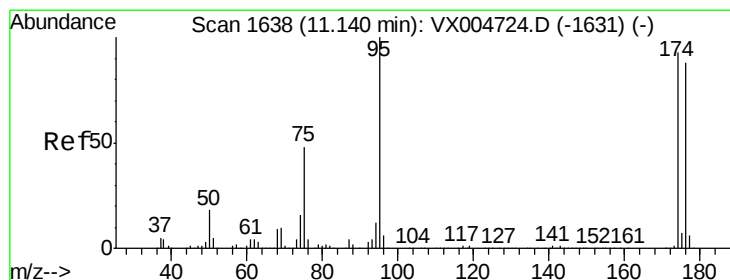
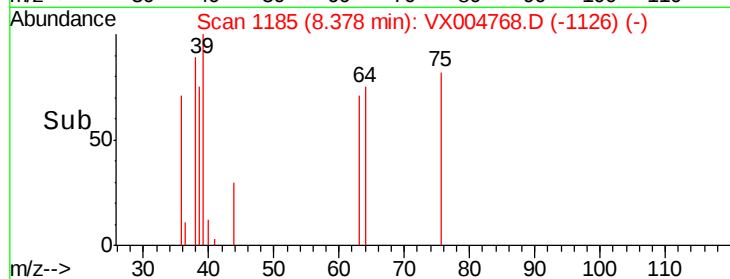
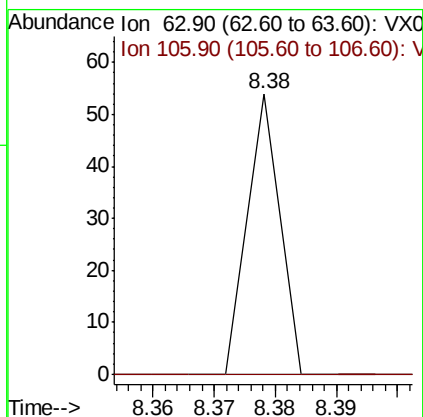
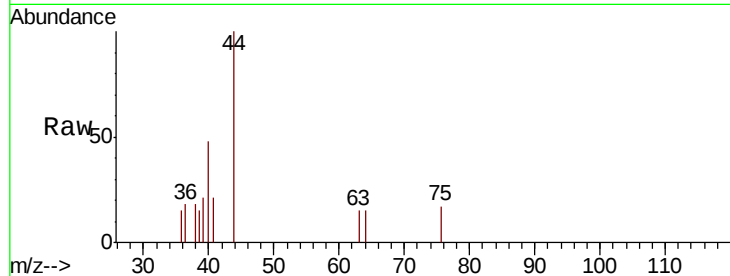




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.248 ug/l
 RT: 8.38 min Scan# 1185
 Delta R.T. 0.06 min
 Lab File: VX004768.D
 Acq: 27 Sep 2018 12:36

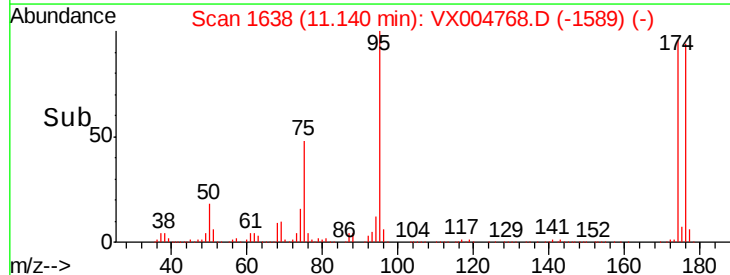
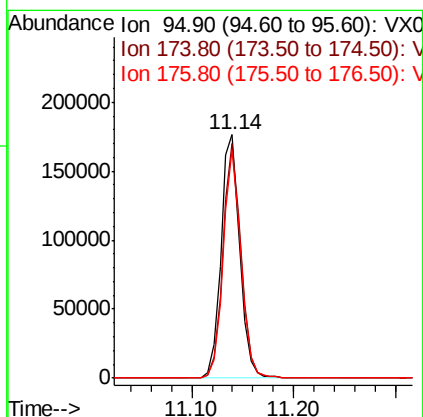
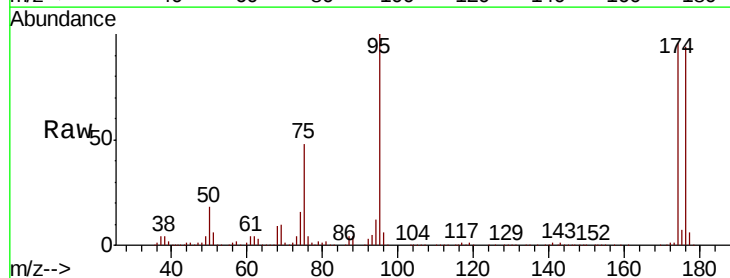
Instrument :
 MSVOA_X
 ClientSampleId :
 FB-1-SEP18

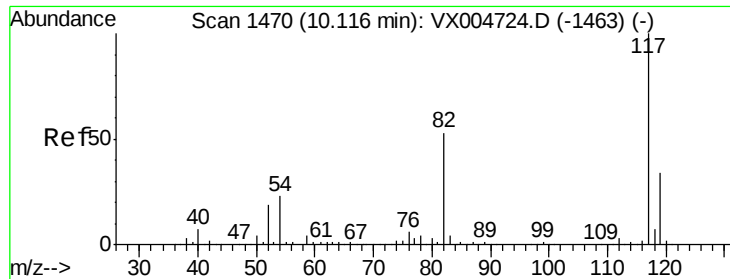
Tot Ion: 63 Resp: 20
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#62
 4-Bromofluorobenzene
 Concen: 51.296 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004768.D
 Acq: 27 Sep 2018 12:36

Tgt Ion: 95 Resp: 226853
 Ion Ratio Lower Upper
 95 100
 174 92.8 0.0 185.2
 176 88.7 0.0 178.6

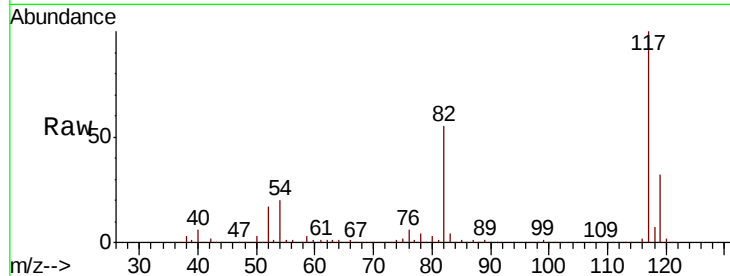




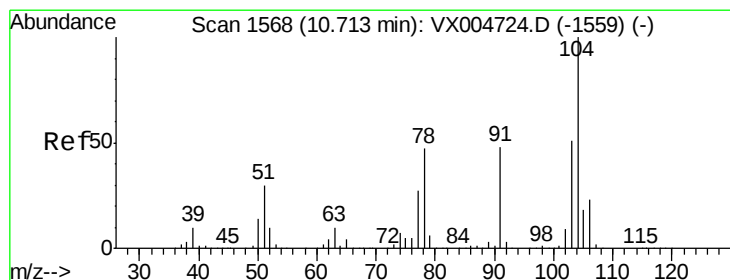
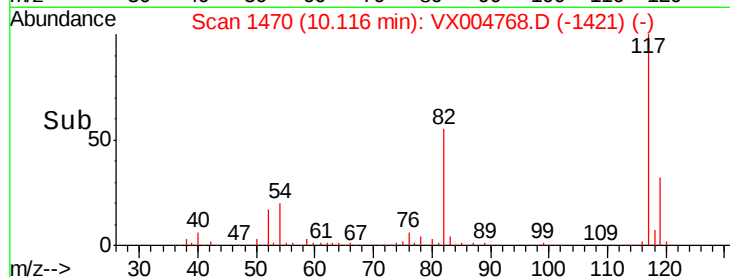
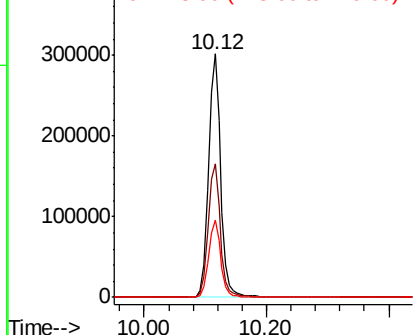
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :
FB-1-SEP18

Tot Ion:117 Resp: 421356
Ion Ratio Lower Upper
117 100
82 54.8 47.8 71.6
119 31.6 29.3 43.9

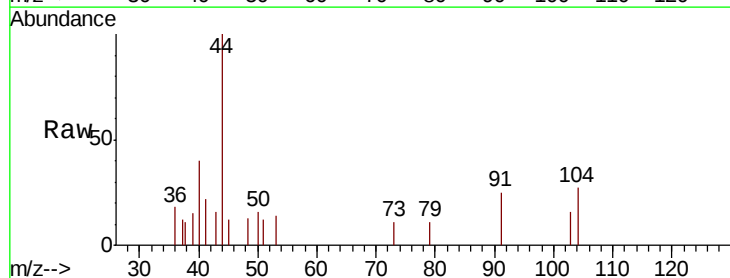


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

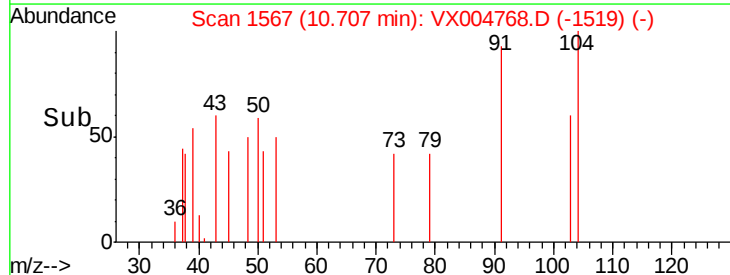
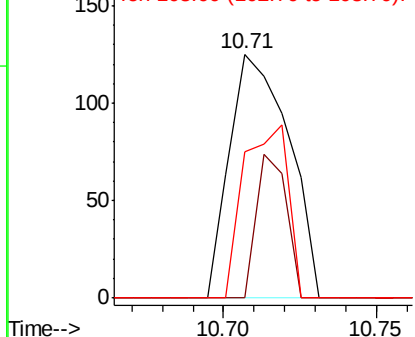


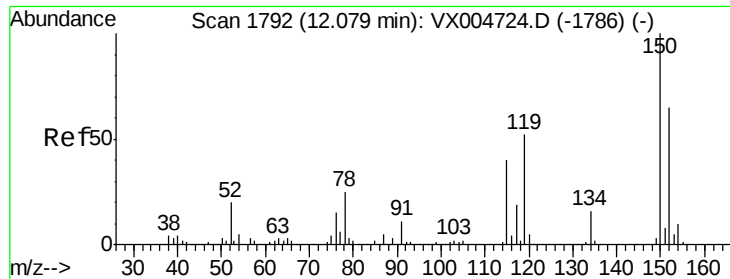
#70
Styrene
Concen: 2.154 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX004768.D
Acq: 27 Sep 2018 12:36

Tgt Ion:104 Resp: 168
Ion Ratio Lower Upper
104 100
78 29.8 37.4 56.0#
103 53.0 43.8 65.6



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: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

FB-1-SEP18

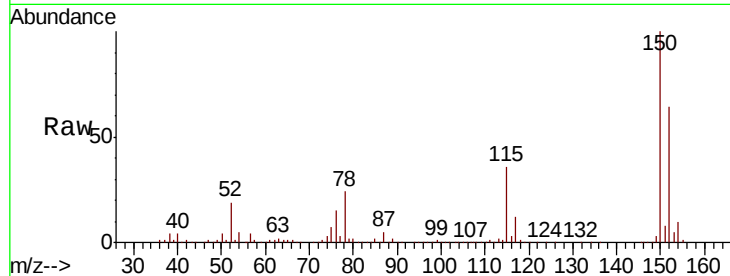
Tot Ion:152 Resp: 236959

Ion Ratio Lower Upper

152 100

115 55.4 39.0 117.0

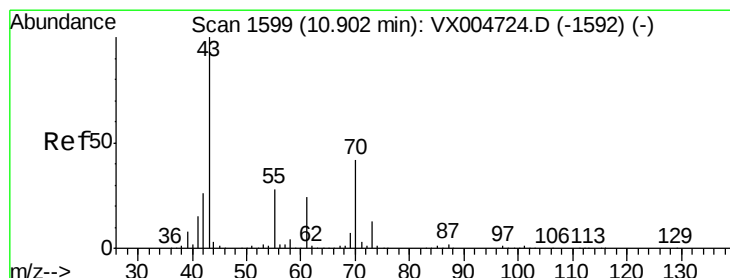
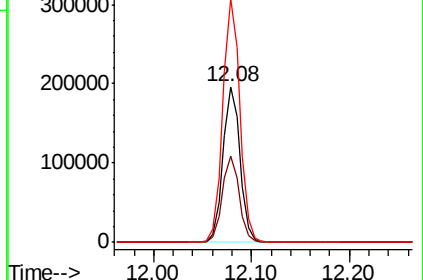
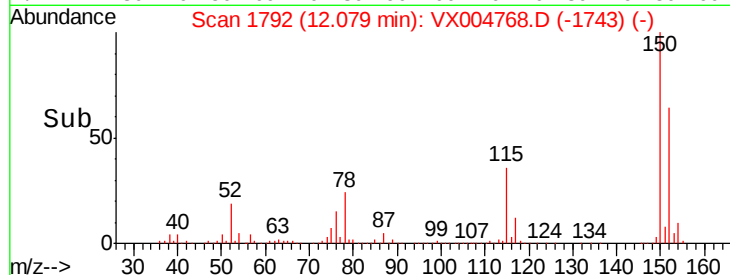
150 157.3 0.0 351.0



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: 1.760 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Tgt Ion: 43 Resp: 104

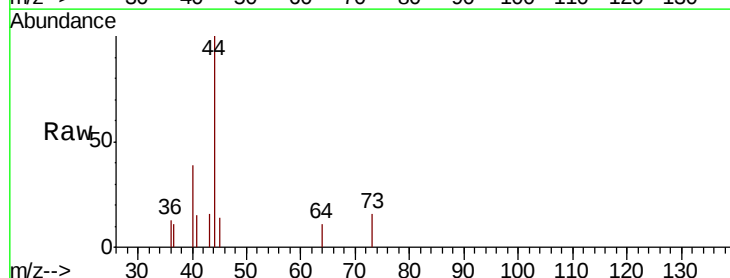
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.8 32.8#

61 0.0 20.6 30.8#

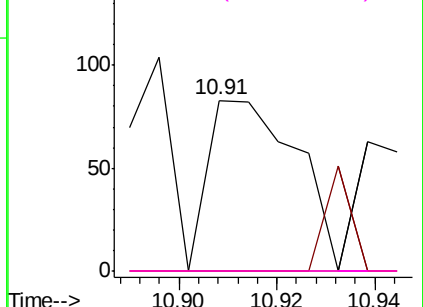
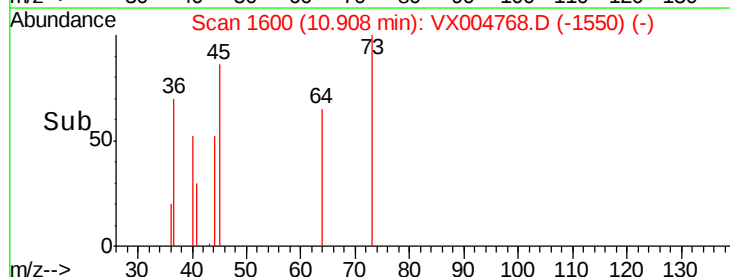


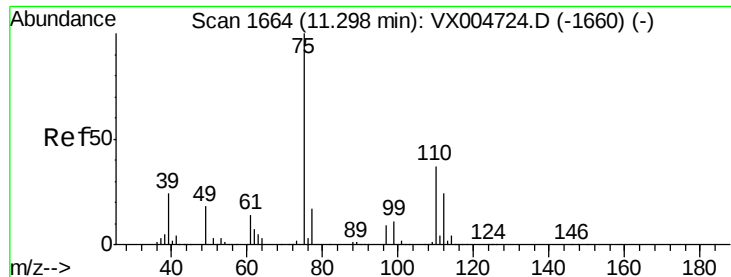
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.970 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

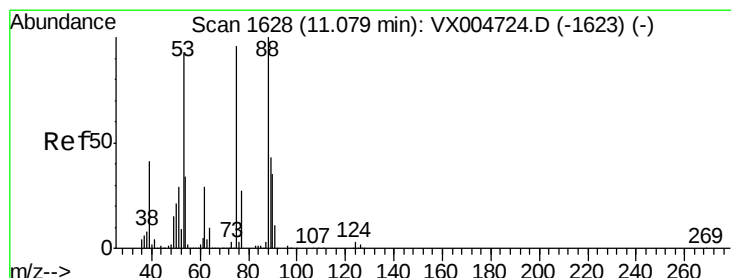
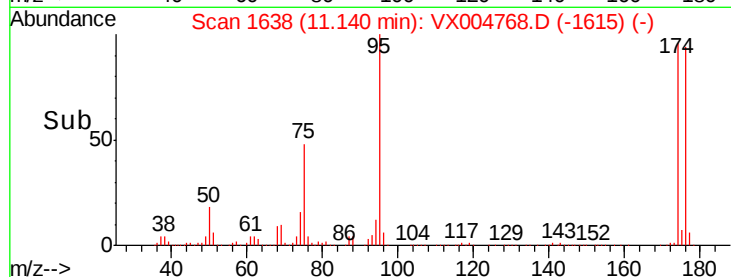
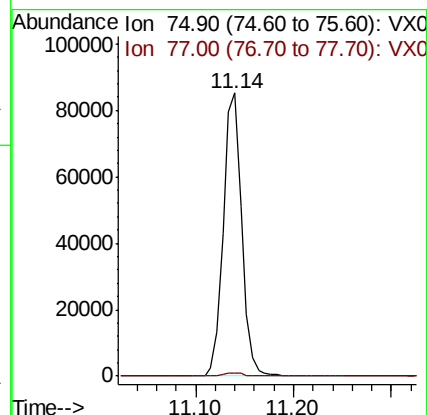
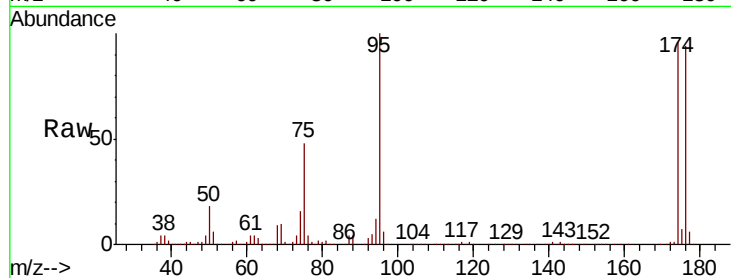
FB-1-SEP18

Tot Ion: 75 Resp: 111372

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.906 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

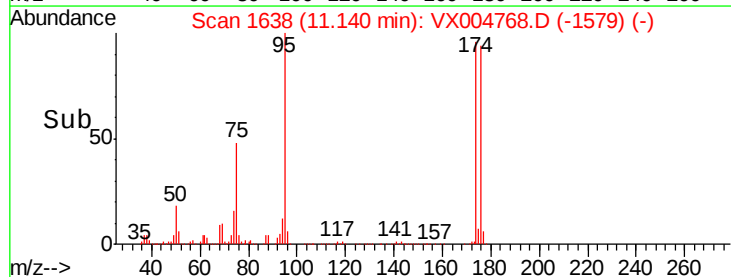
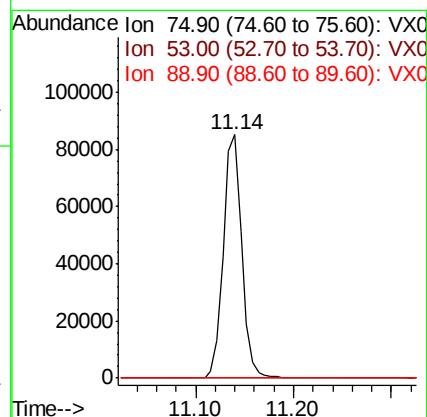
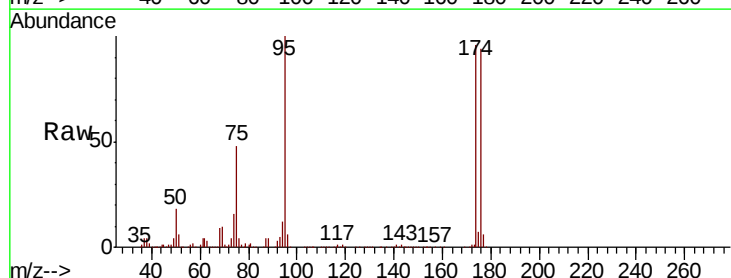
Tgt Ion: 75 Resp: 111372

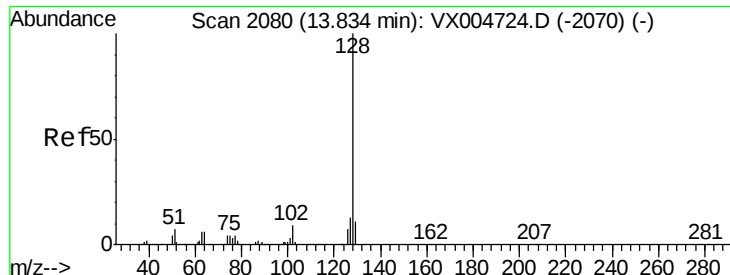
Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.754 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX004768.D

Acq: 27 Sep 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

FB-1-SEP18

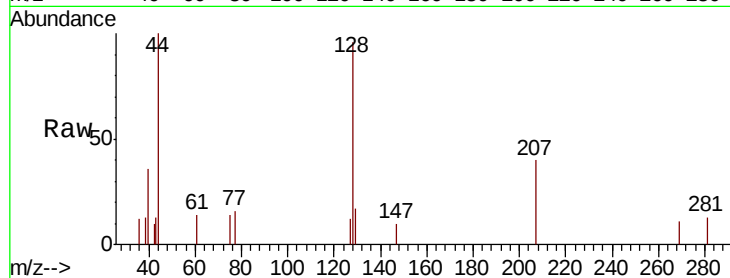
Tot Ion:128 Resp: 691

Ion Ratio Lower Upper

128 100

127 14.6 10.2 15.2

129 8.8 8.6 12.8



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

