

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041218\
 Data File : VX000807.D
 Acq On : 12 Apr 2018 17:23
 Operator : JC/MD
 Sample : J2312-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 F-4-09-18

Quant Time: Apr 13 06:55:32 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	276581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	362412	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	325483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204201	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	158895	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	
35) Dibromofluoromethane	5.51	113	130647	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	8.73	98	493647	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
62) 4-Bromofluorobenzene	11.15	95	187843	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

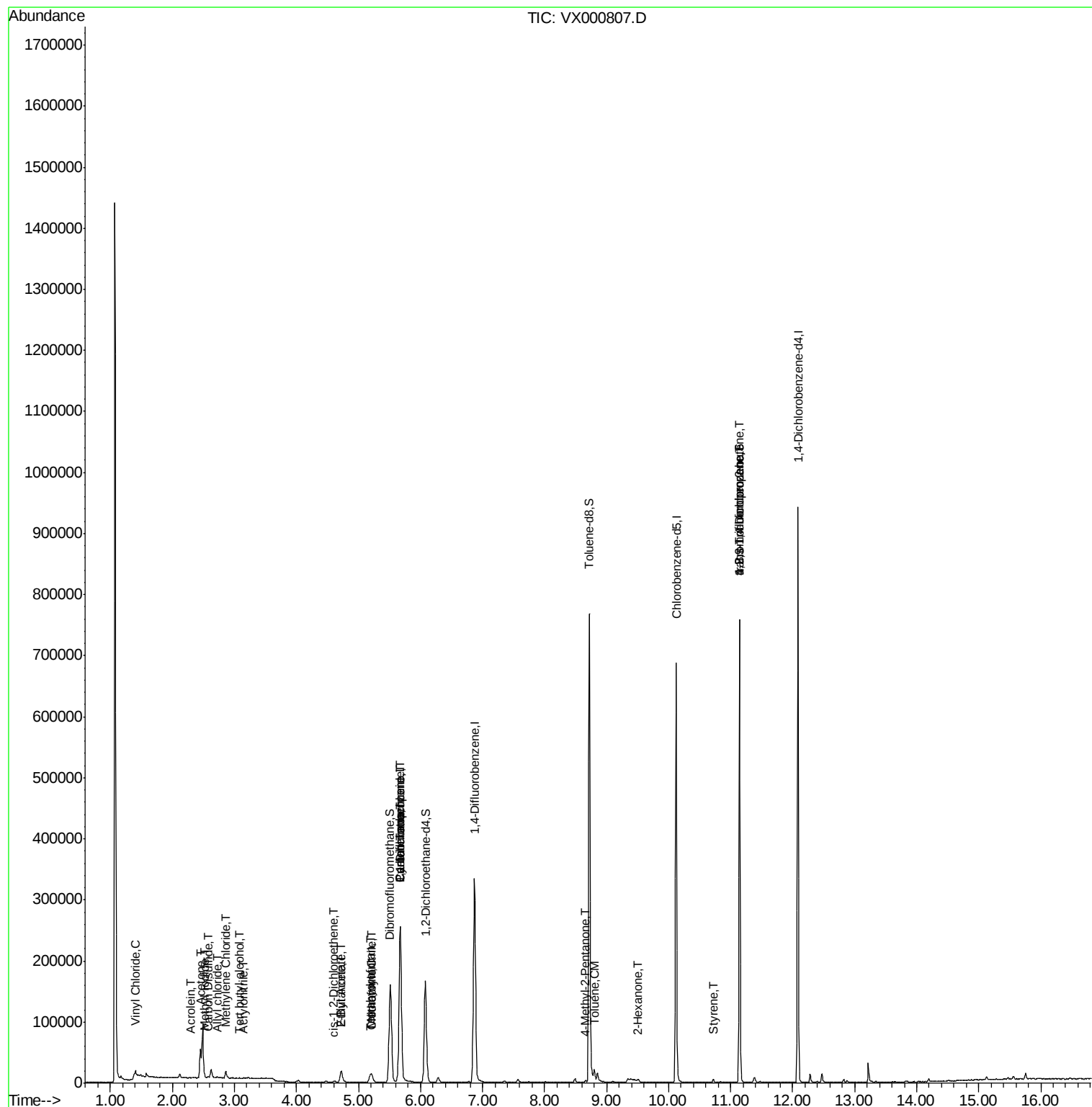
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	4629	1.54	ug/l #	75
5) Bromomethane	1.62	94	92	Below Cal	#	2
10) Methyl Iodide	2.53	142	277	8.34	ug/l #	83
11) Tert butyl alcohol	3.09	59	312	0.50	ug/l #	1
13) Acrolein	2.29	56	160	0.53	ug/l #	62
14) Allyl chloride	2.71	41	1381	0.29	ug/l #	52
15) Acrylonitrile	3.14	53	317	0.24	ug/l #	28
16) Acetone	2.45	43	49824	41.43	ug/l	98
17) Carbon Disulfide	2.57	76	2947	0.38	ug/l #	95
20) Methylene Chloride	2.86	84	4770	1.71	ug/l	93
25) 2-Butanone	4.72	43	33411	16.82	ug/l	100
27) cis-1,2-Dichloroethene	4.61	96	1053	0.33	ug/l	82
29) Tetrahydrofuran	5.18	42	7821	6.20	ug/l	98
30) Chloroform	5.22	83	2197	0.43	ug/l	95
31) Cyclohexane	5.67	56	4795	1.04	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16135	4.04	ug/l #	49
37) Ethyl Acetate	4.72	43	33411	8.57	ug/l #	68
38) Carbon Tetrachloride	5.68	117	23124	5.18	ug/l #	15
41) Methacrylonitrile	5.20	41	6178	2.74	ug/l #	48
51) 4-Methyl-2-Pentanone	8.66	43	1085	0.28	ug/l	95
52) Toluene	8.79	92	1711	0.23	ug/l	94
59) 2-Hexanone	9.51	43	773	0.26	ug/l	90
70) Styrene	10.72	104	2069	0.24	ug/l	93
76) 1,2,3-Trichloropropane	11.15	75	92021	26.13	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	92021	71.88	ug/l #	11

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

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Instrument :
MSVOA_X
ClientSampleId :
F-4-09-18

Quant Time: Apr 13 06:55:32 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 10 15:49:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

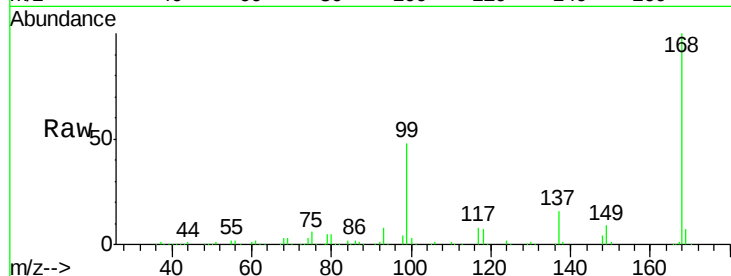
F-4-09-18

Tgt Ion:168 Resp: 276581

Ion Ratio Lower Upper

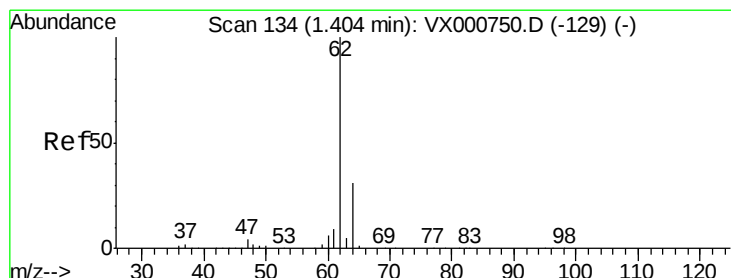
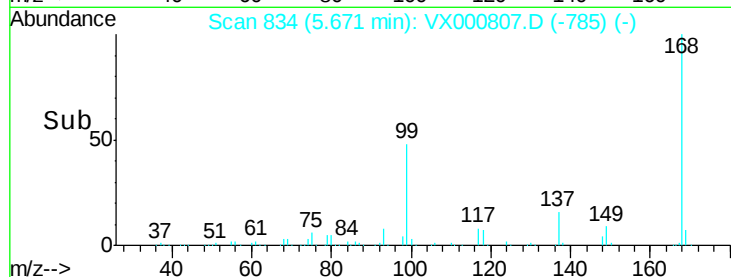
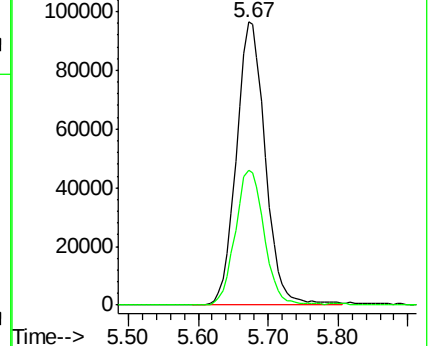
168 100

99 47.8 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.54 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX000807.D

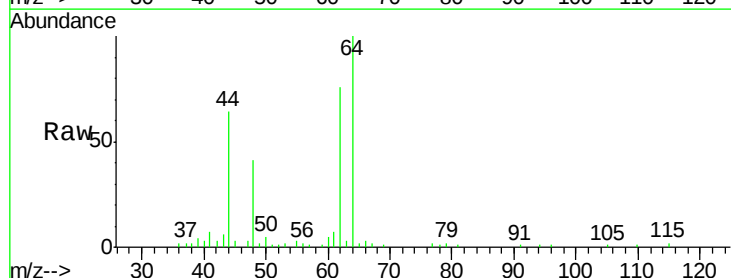
Acq: 12 Apr 2018 17:23

Tgt Ion: 62 Resp: 4629

Ion Ratio Lower Upper

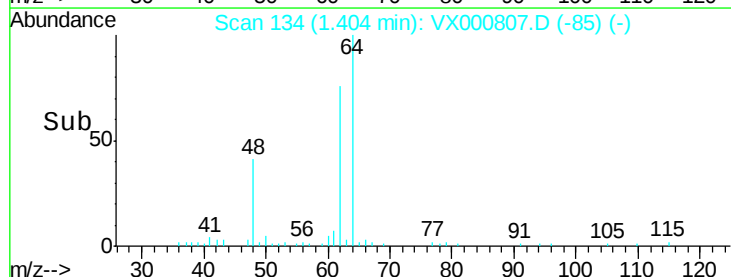
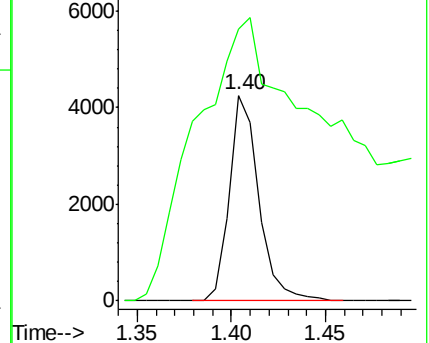
62 100

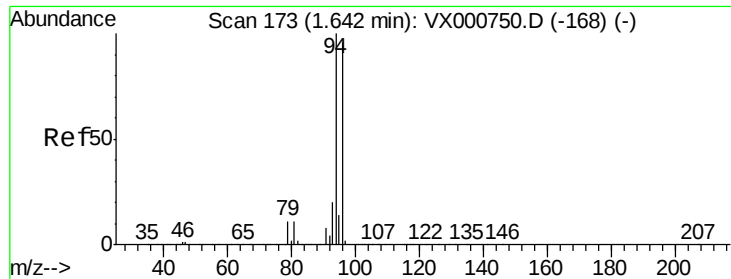
64 44.6 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.02 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

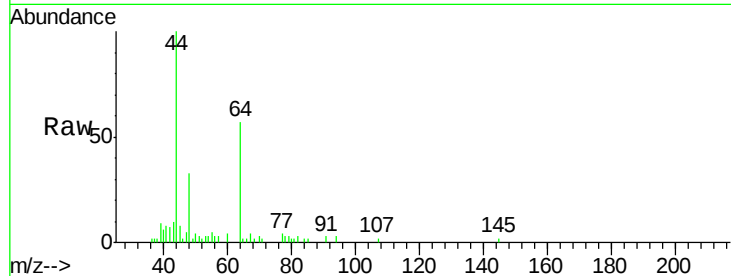
F-4-09-18

Tgt Ion: 94 Resp: 92

Ion Ratio Lower Upper

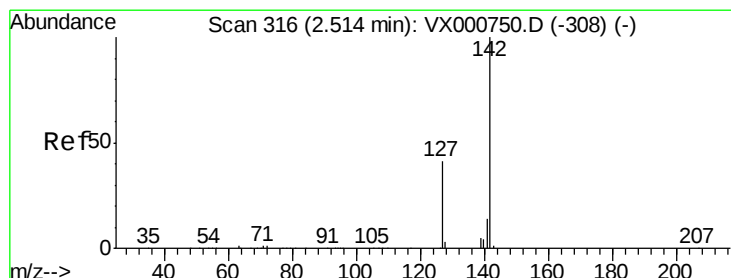
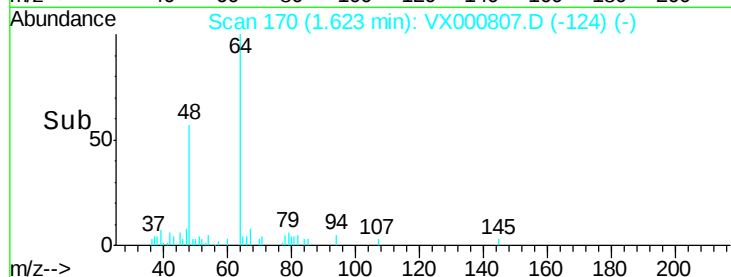
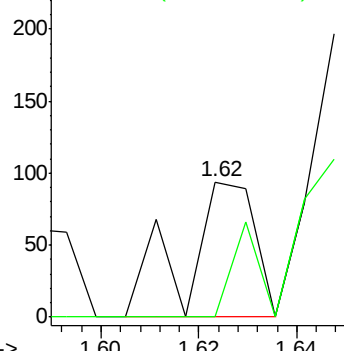
94 100

96 0.0 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 8.34 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

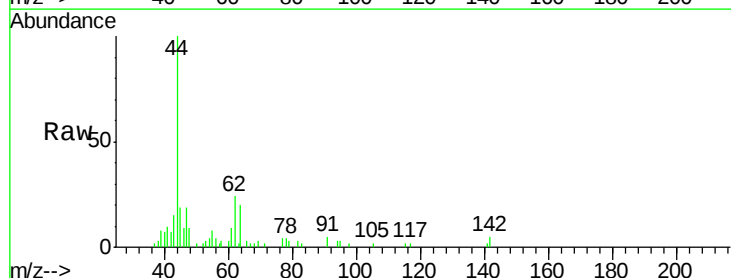
Tgt Ion: 142 Resp: 277

Ion Ratio Lower Upper

142 100

127 27.8 32.6 49.0#

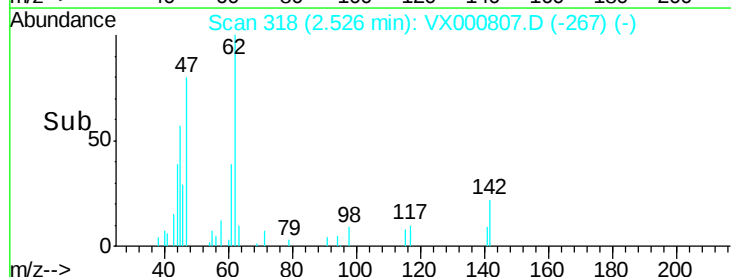
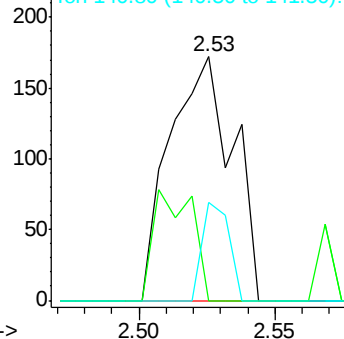
141 17.0 11.5 17.3

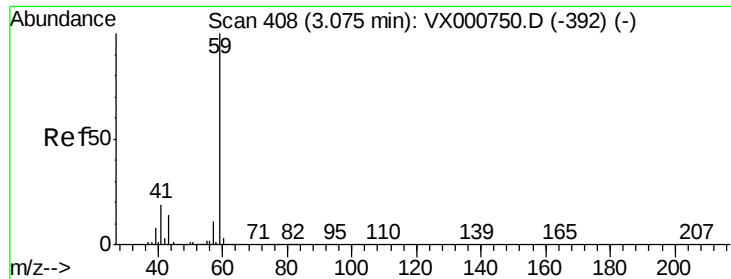


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

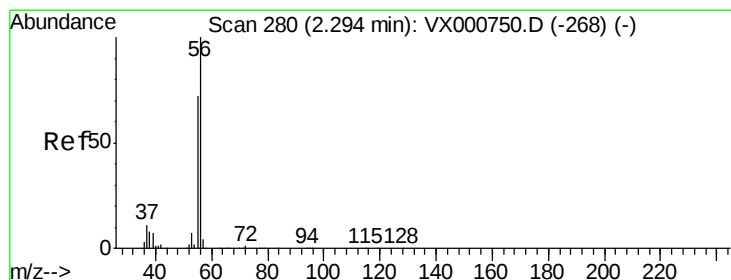
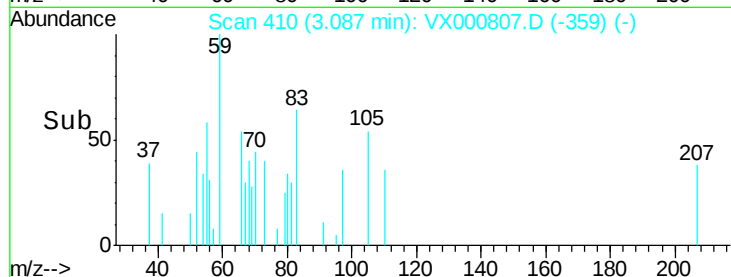
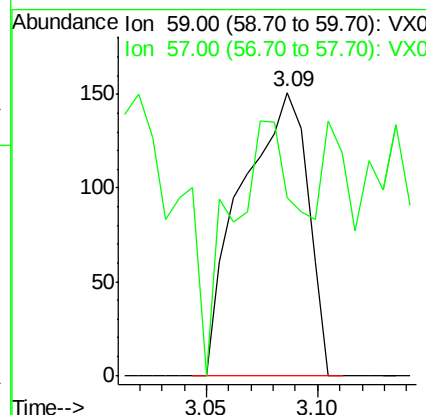
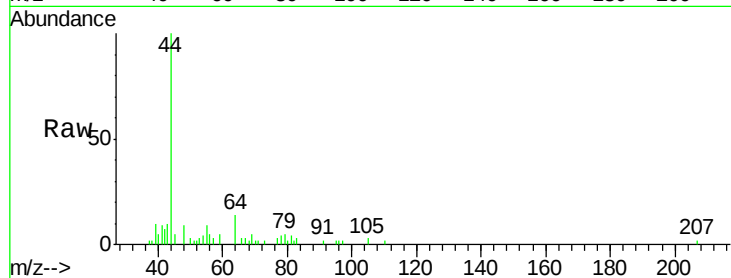




#11
Tert butyl alcohol
Concen: 0.50 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

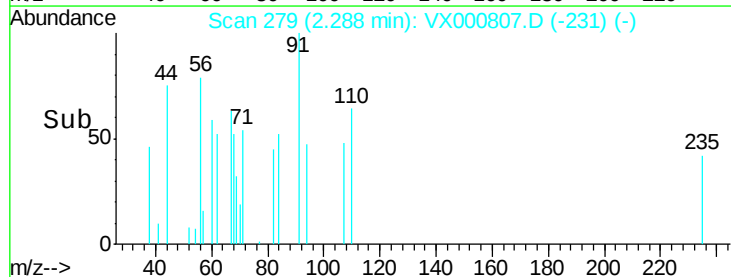
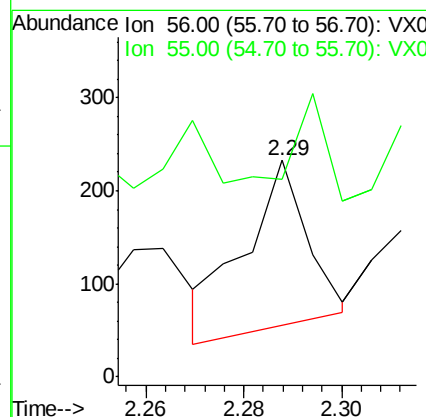
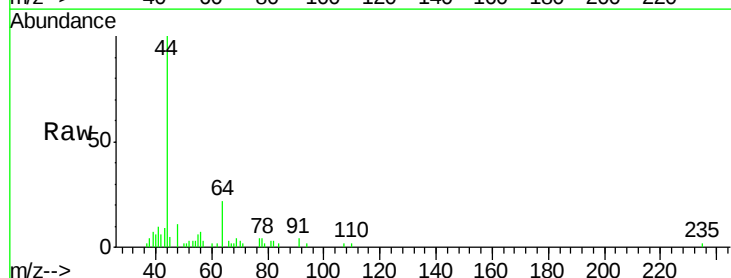
Instrument :
MSVOA_X
ClientSampleId :
F-4-09-18

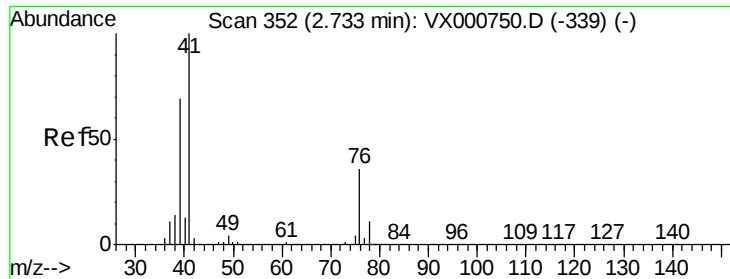
Tgt Ion: 59 Resp: 312
Ion Ratio Lower Upper
59 100
57 93.6 8.4 12.6#



#13
Acrolein
Concen: 0.53 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Tgt Ion: 56 Resp: 160
Ion Ratio Lower Upper
56 100
55 41.3 58.7 88.1#

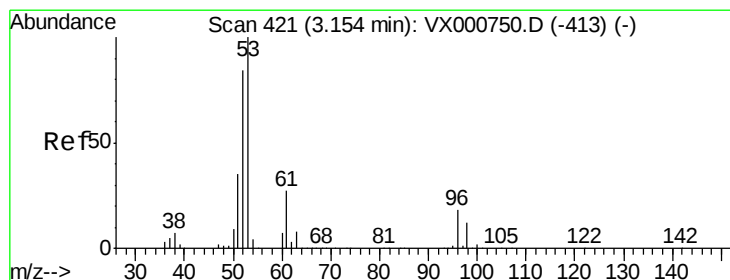
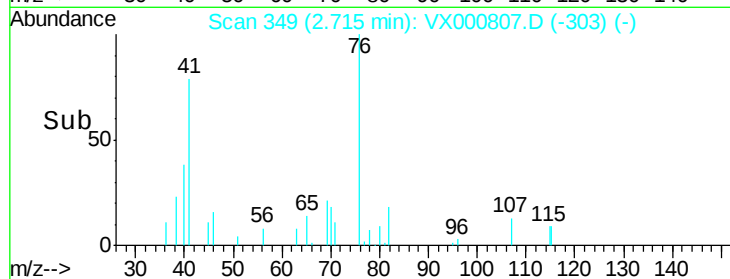
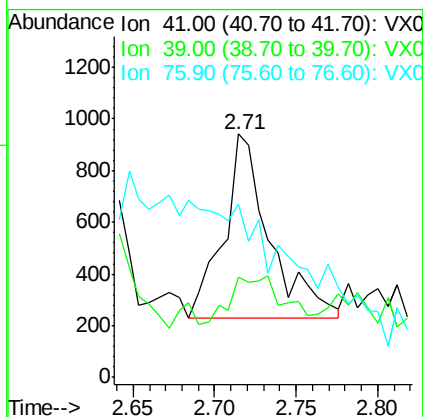
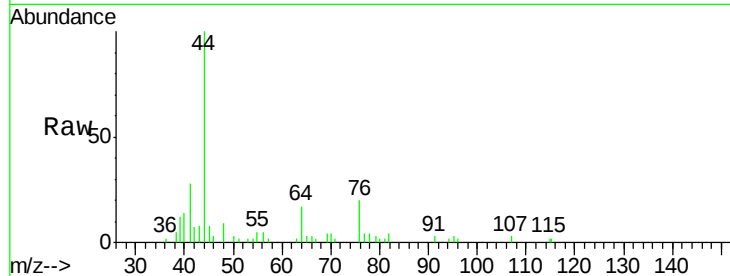




#14
 Allyl chloride
 Concen: 0.29 ug/l
 RT: 2.71 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX000807.D
 Acq: 12 Apr 2018 17:23

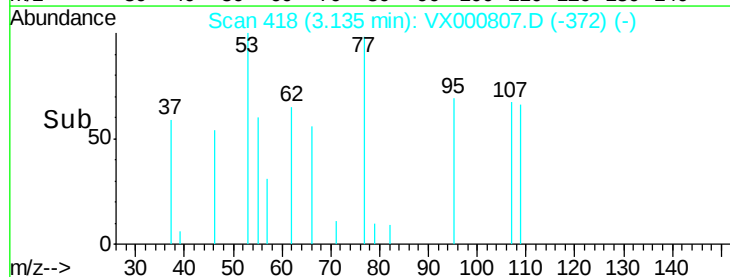
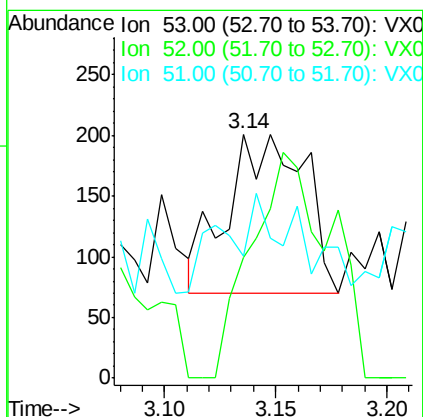
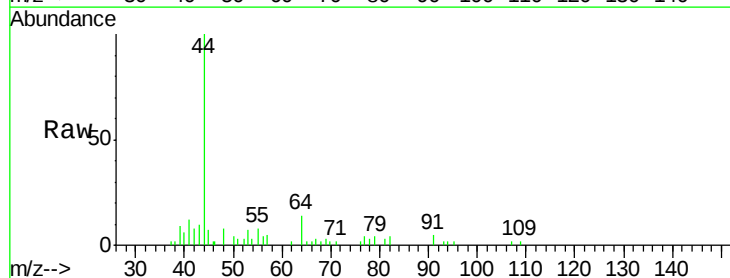
Instrument :
 MSVOA_X
 ClientSampled :
 F-4-09-18

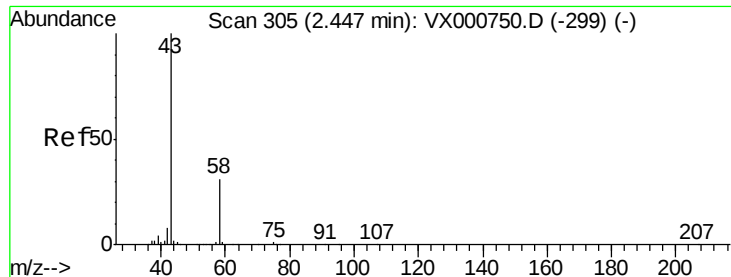
Tgt Ion: 41 Resp: 1381
 Ion Ratio Lower Upper
 41 100
 39 31.1 51.5 77.3#
 76 0.0 26.5 39.7#



#15
 Acrylonitrile
 Concen: 0.24 ug/l
 RT: 3.14 min Scan# 418
 Delta R.T. -0.02 min
 Lab File: VX000807.D
 Acq: 12 Apr 2018 17:23

Tgt Ion: 53 Resp: 317
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.5 99.7#
 51 21.5 28.8 43.2#





#16

Acetone

Concen: 41.43 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

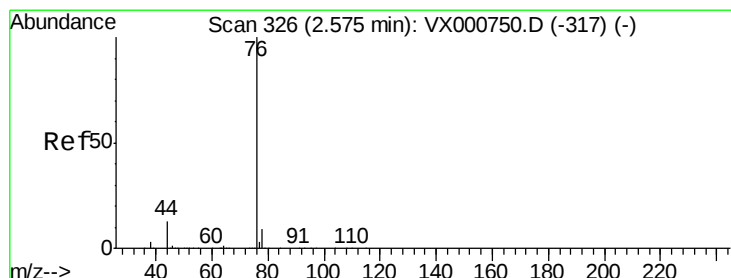
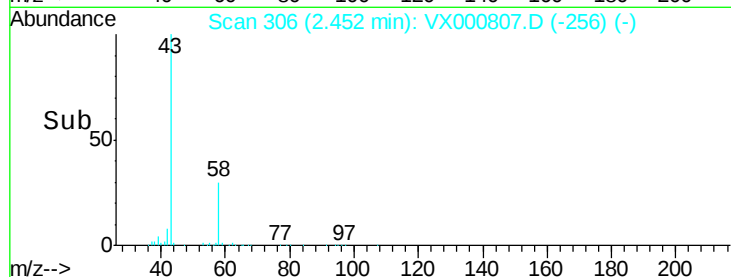
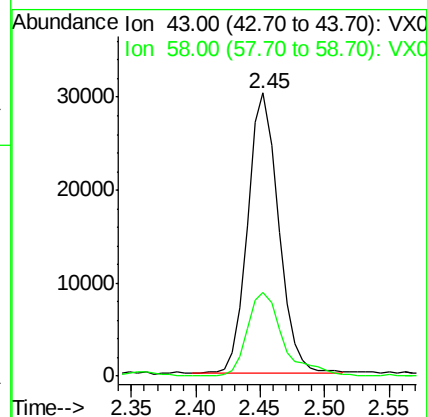
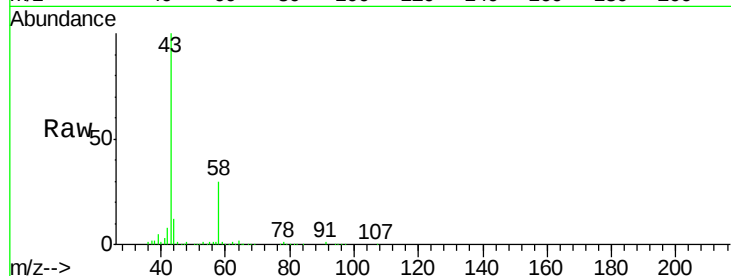
F-4-09-18

Tgt Ion: 43 Resp: 49824

Ion Ratio Lower Upper

43 100

58 29.9 24.6 37.0



#17

Carbon Disulfide

Concen: 0.38 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX000807.D

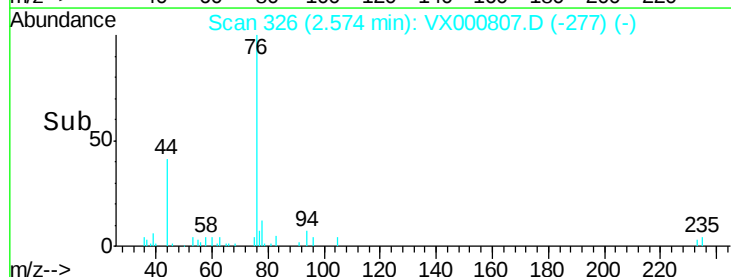
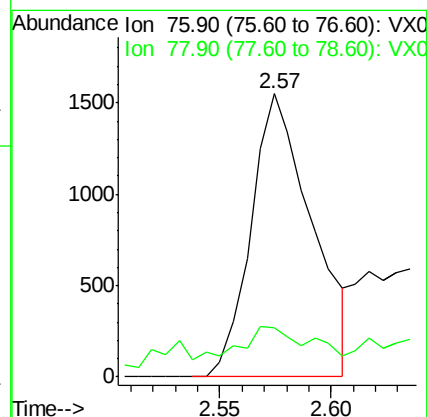
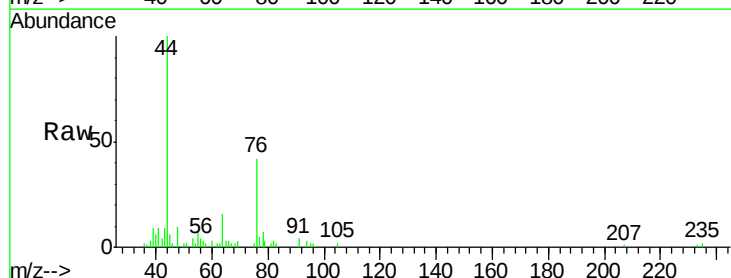
Acq: 12 Apr 2018 17:23

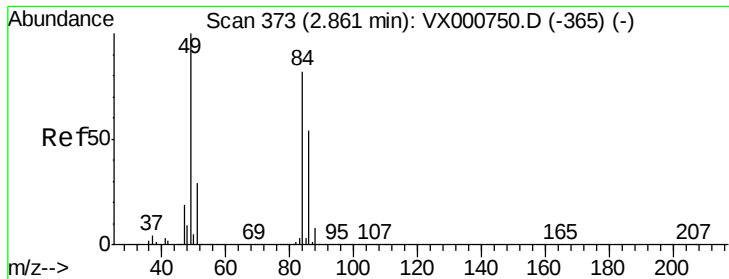
Tgt Ion: 76 Resp: 2947

Ion Ratio Lower Upper

76 100

78 11.3 7.4 11.2#





#20

Methylene Chloride

Concen: 1.71 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampled :

F-4-09-18

Tgt Ion: 84 Resp: 4770

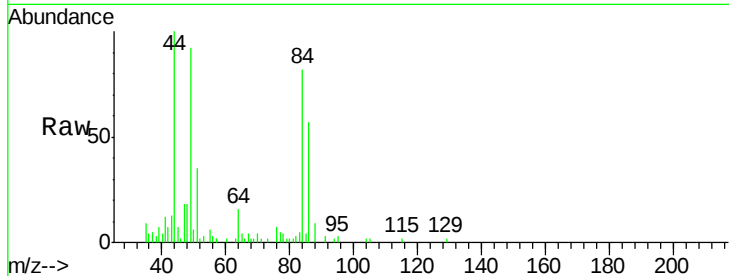
Ion Ratio Lower Upper

84 100

49 112.1 98.1 147.1

51 39.9 28.9 43.3

86 69.4 52.7 79.1

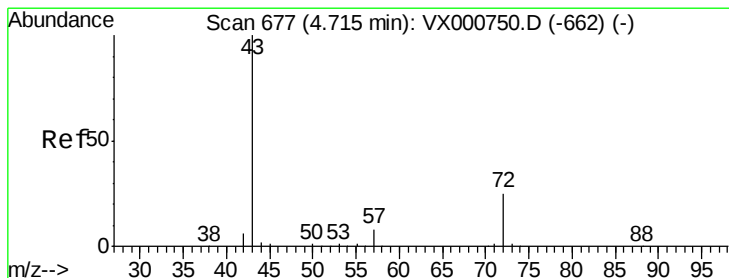
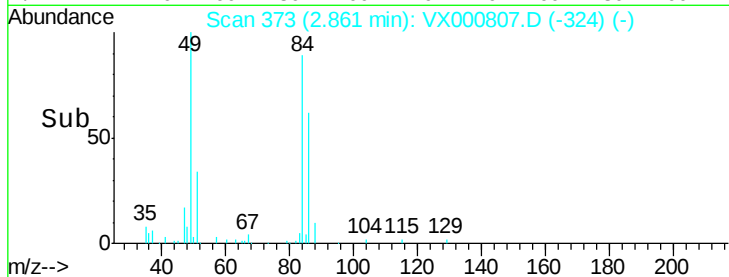
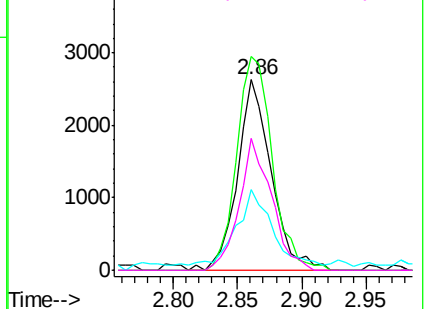


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 16.82 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000807.D

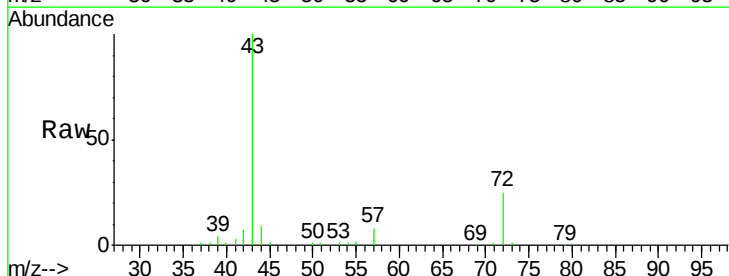
Acq: 12 Apr 2018 17:23

Tgt Ion: 43 Resp: 33411

Ion Ratio Lower Upper

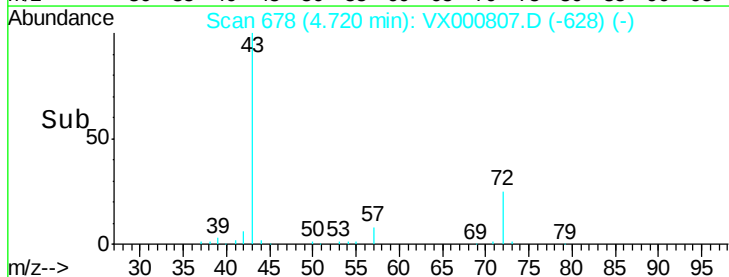
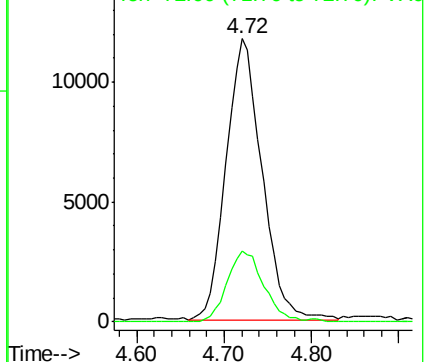
43 100

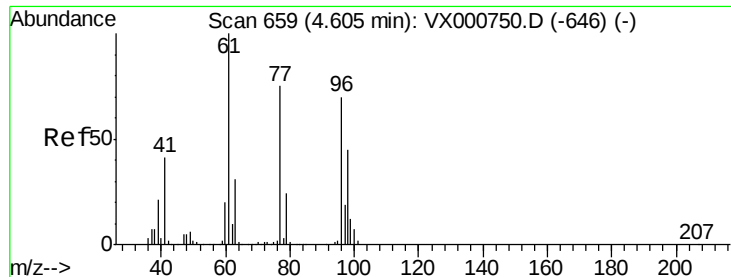
72 25.3 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.33 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampled :

F-4-09-18

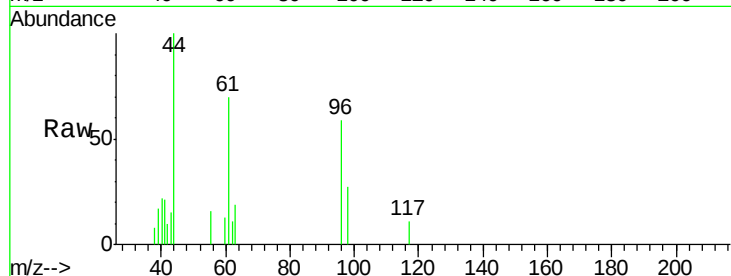
Tgt Ion: 96 Resp: 1053

Ion Ratio Lower Upper

96 100

61 115.0 0.0 292.4

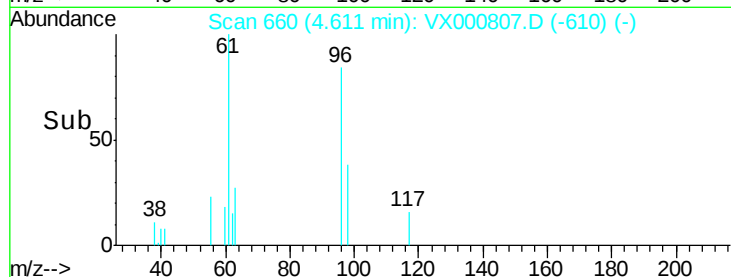
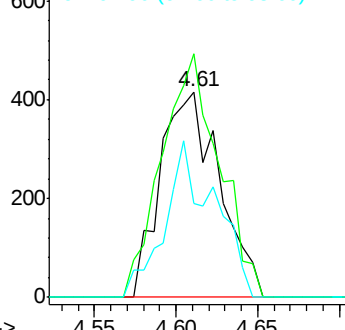
98 63.2 0.0 130.2



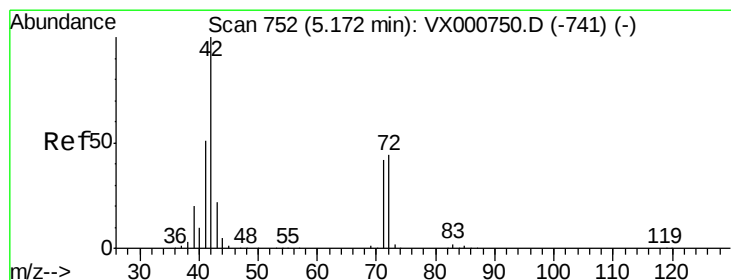
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#29

Tetrahydrofuran

Concen: 6.20 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

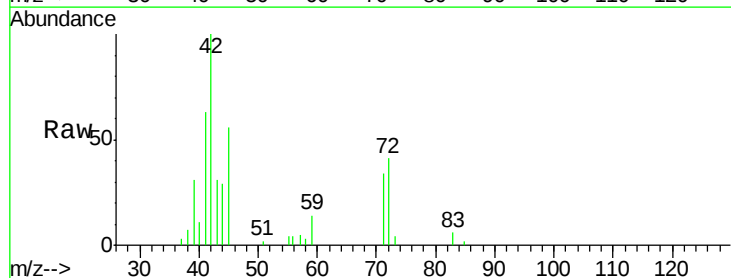
Tgt Ion: 42 Resp: 7821

Ion Ratio Lower Upper

42 100

72 41.3 35.1 52.7

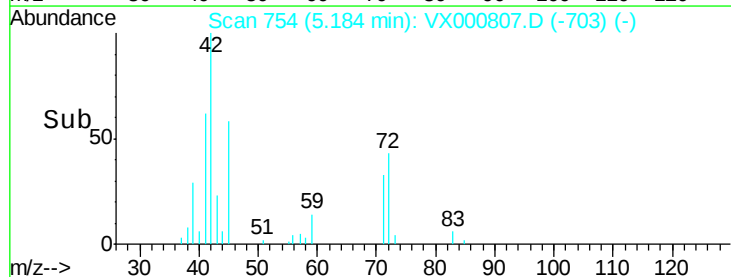
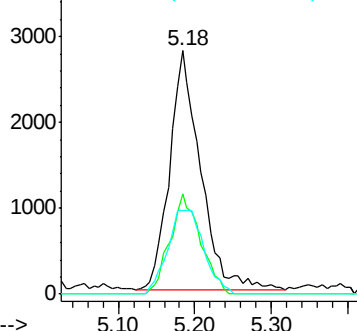
71 41.0 32.8 49.2

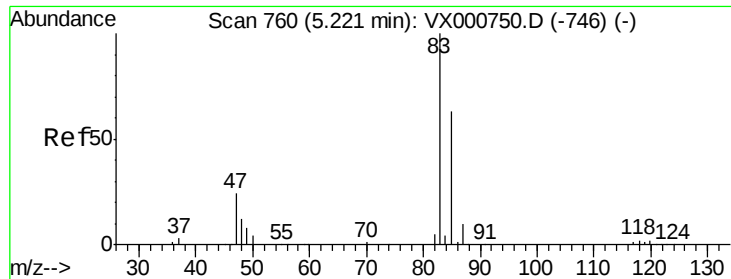


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

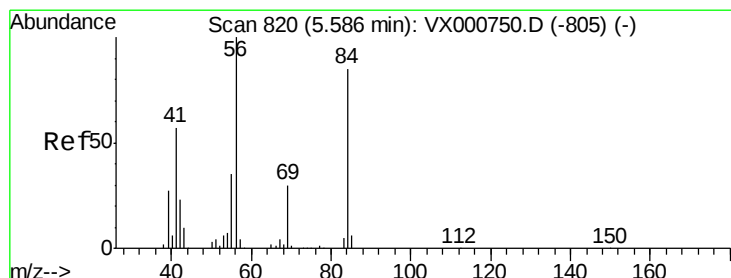
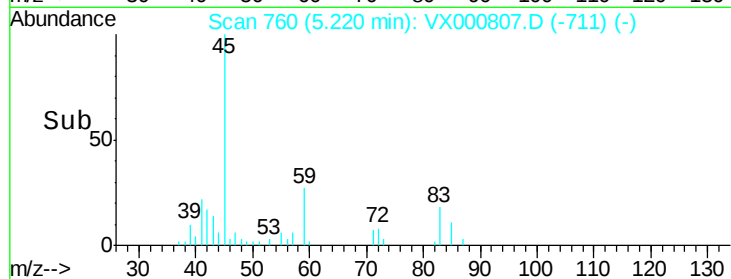
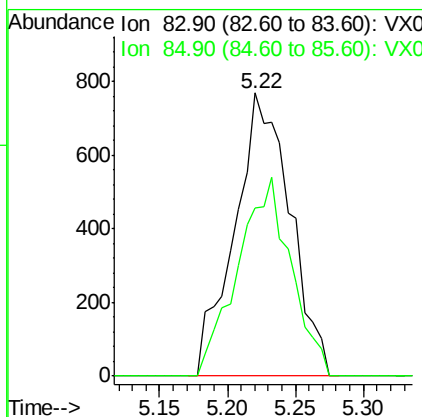
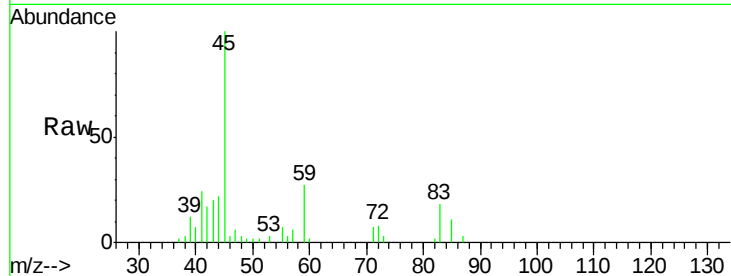




#30
Chloroform
Concen: 0.43 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

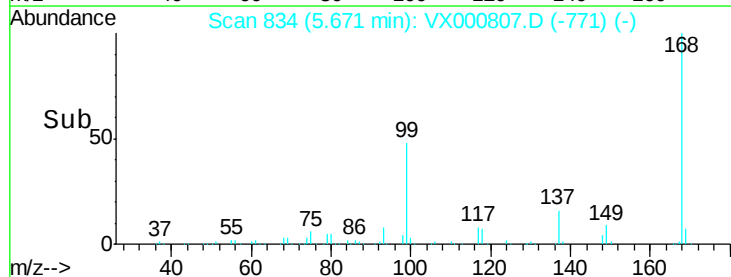
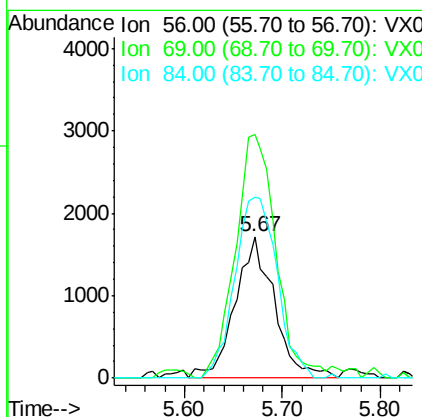
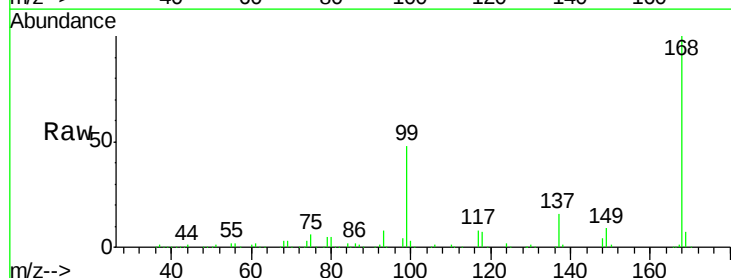
Instrument :
MSVOA_X
ClientSampleId :
F-4-09-18

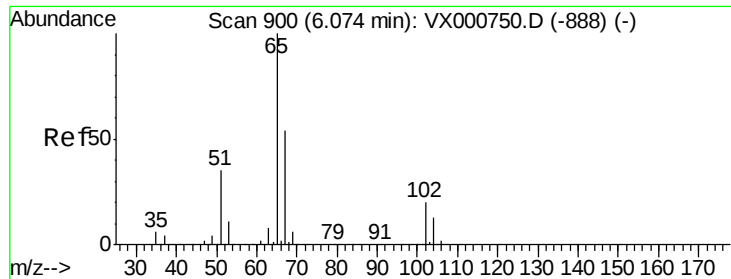
Tgt Ion: 83 Resp: 2197
Ion Ratio Lower Upper
83 100
85 59.3 50.7 76.1



#31
Cyclohexane
Concen: 1.04 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Tgt Ion: 56 Resp: 4795
Ion Ratio Lower Upper
56 100
69 169.0 24.2 36.4#
84 127.6 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 45.56 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampled :

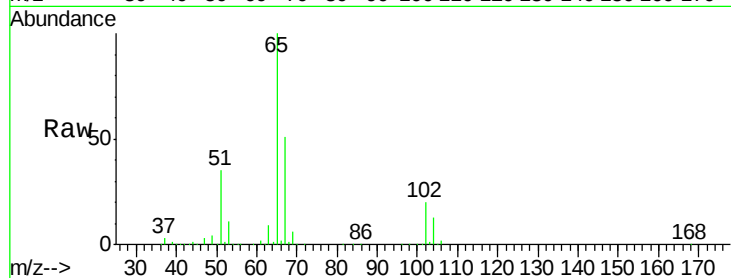
F-4-09-18

Tgt Ion: 65 Resp: 158895

Ion Ratio Lower Upper

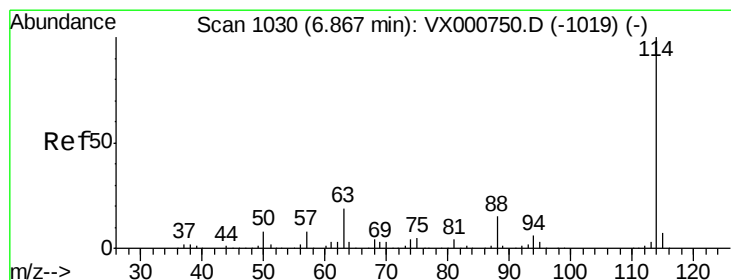
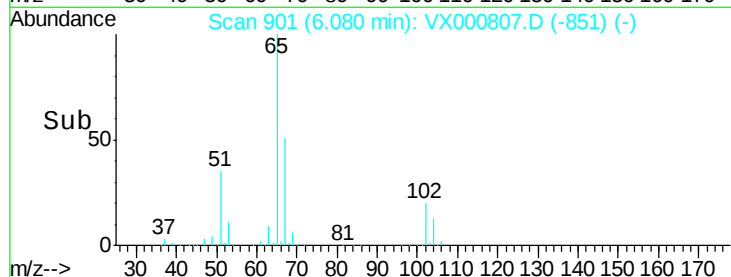
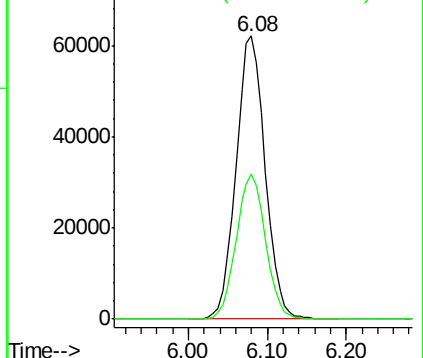
65 100

67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

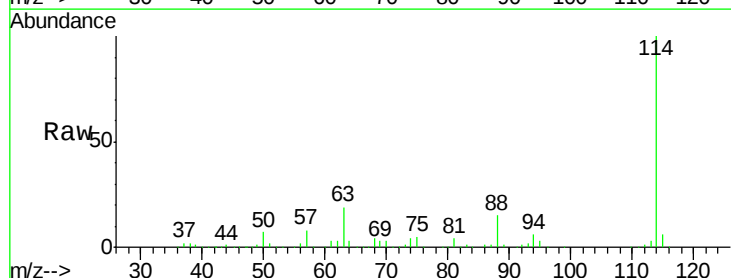
Tgt Ion: 114 Resp: 362412

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

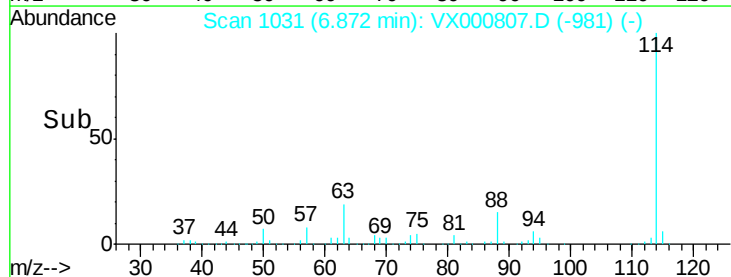
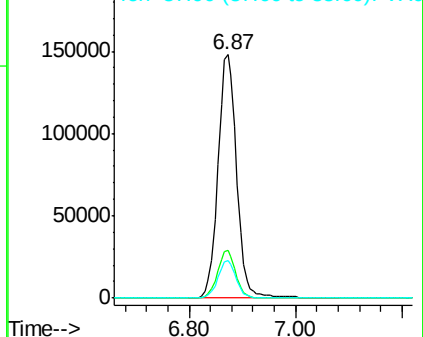
88 15.4 0.0 31.0

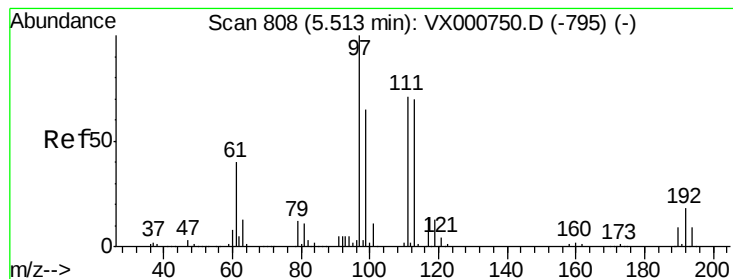


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.79 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

F-4-09-18

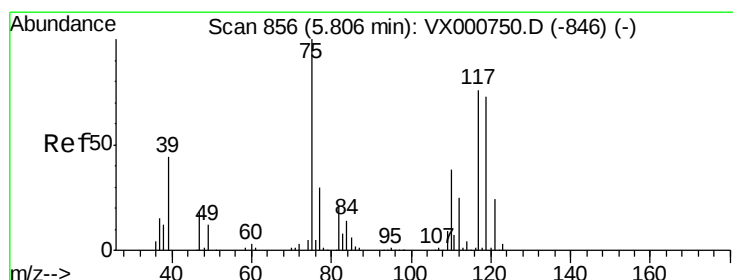
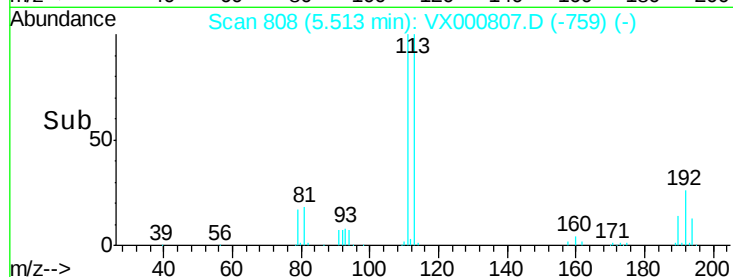
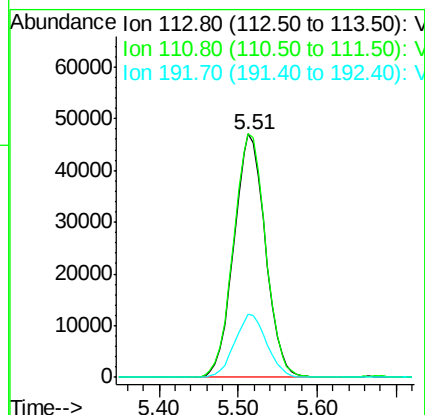
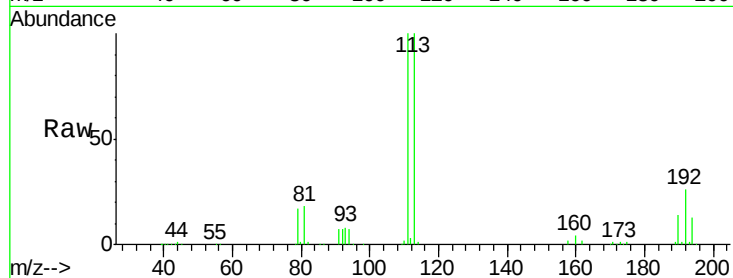
Tgt Ion:113 Resp: 130647

Ion Ratio Lower Upper

113 100

111 101.9 81.5 122.3

192 26.4 20.4 30.6



#36

1,1-Dichloropropene

Concen: 4.04 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

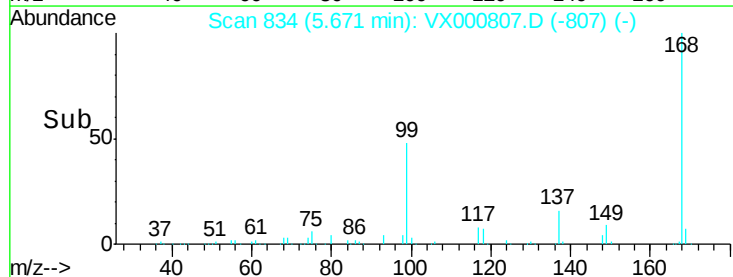
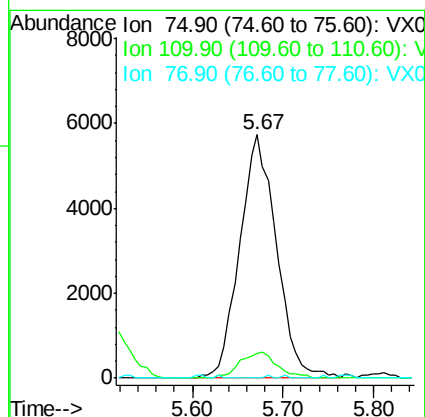
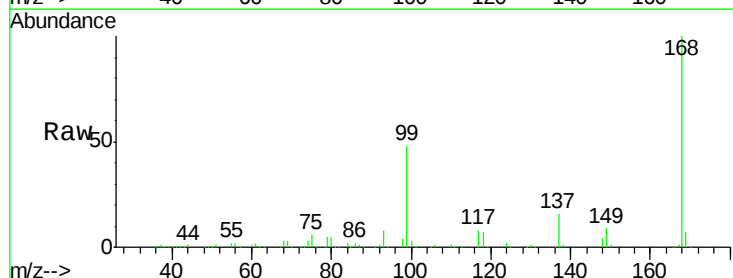
Tgt Ion: 75 Resp: 16135

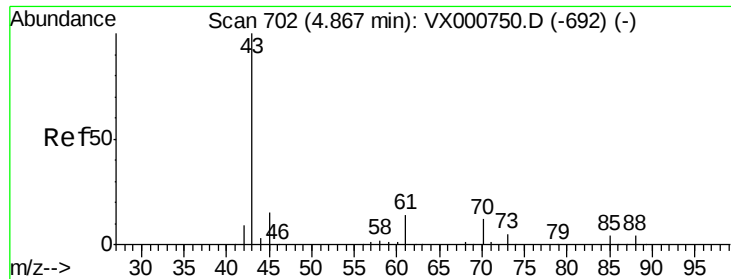
Ion Ratio Lower Upper

75 100

110 10.8 19.2 57.6#

77 0.1 25.4 38.2#





#37

Ethyl Acetate

Concen: 8.57 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.15 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

F-4-09-18

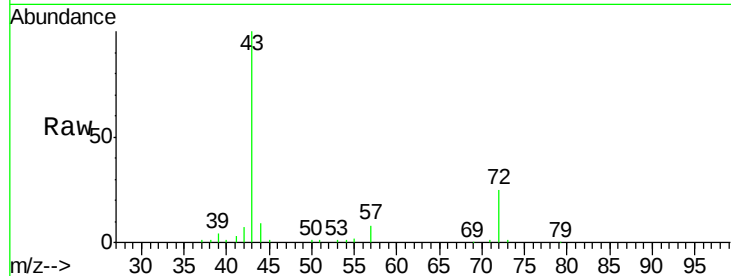
Tgt Ion: 43 Resp: 33411

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

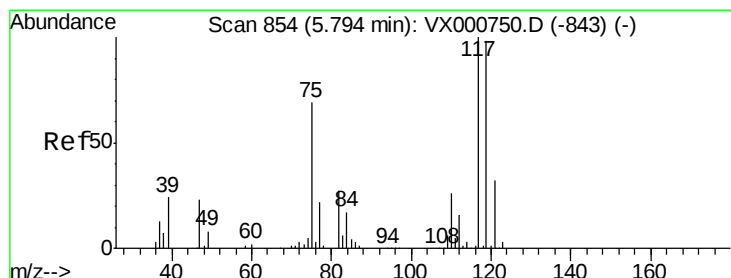
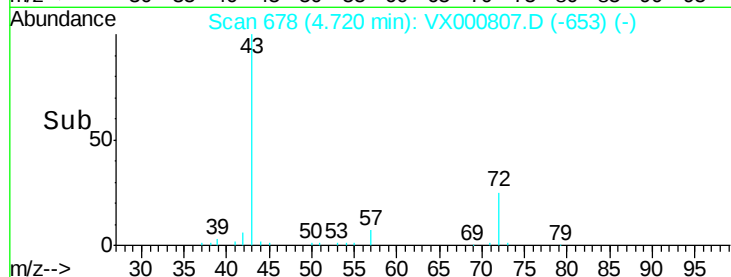
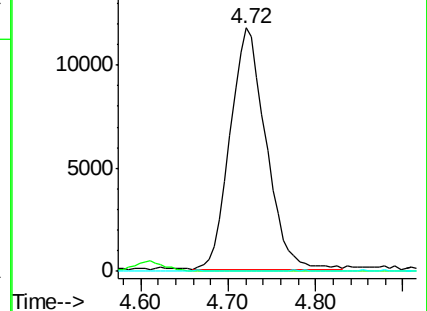
70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

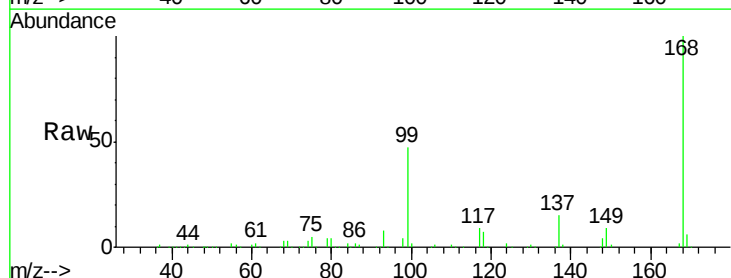
Tgt Ion: 117 Resp: 23124

Ion Ratio Lower Upper

117 100

119 4.6 78.4 117.6#

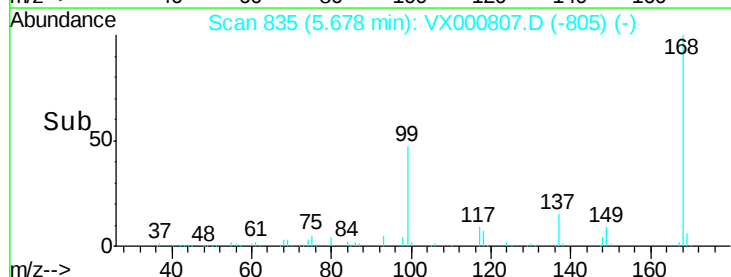
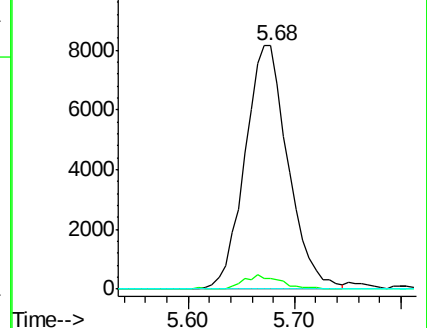
121 0.0 25.4 38.0#

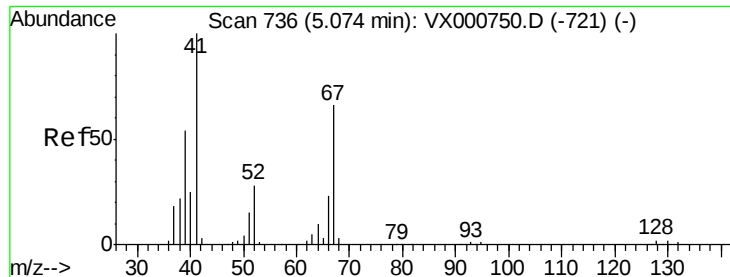


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

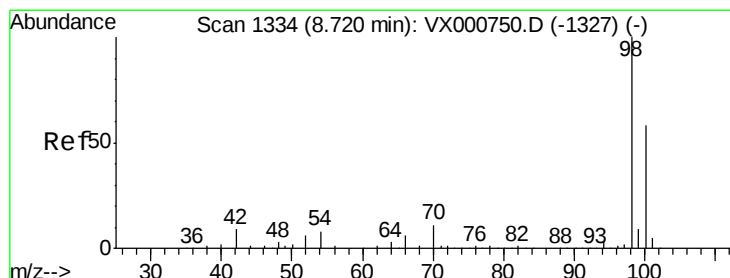
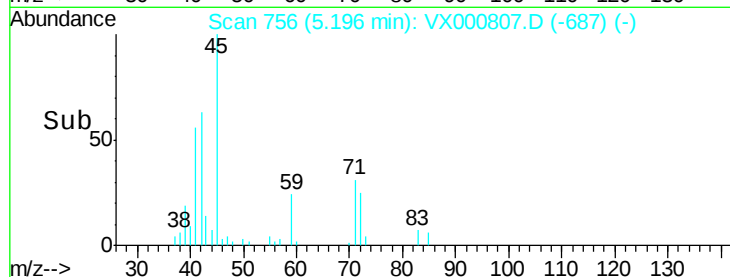
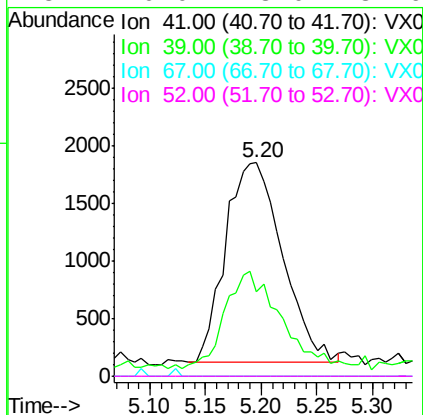
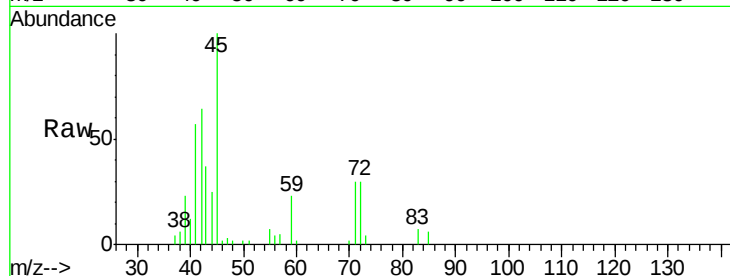




#41
Methacrylonitrile
Concen: 2.74 ug/l
RT: 5.20 min Scan# 756
Delta R.T. 0.12 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

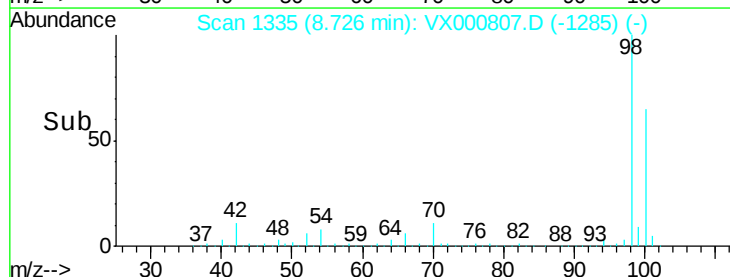
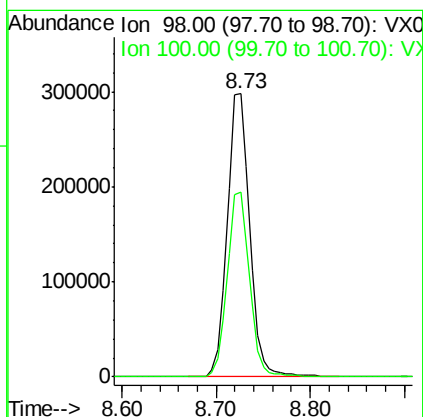
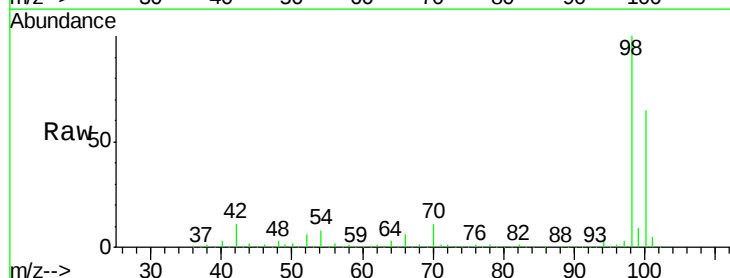
Instrument :
MSVOA_X
ClientSampled :
F-4-09-18

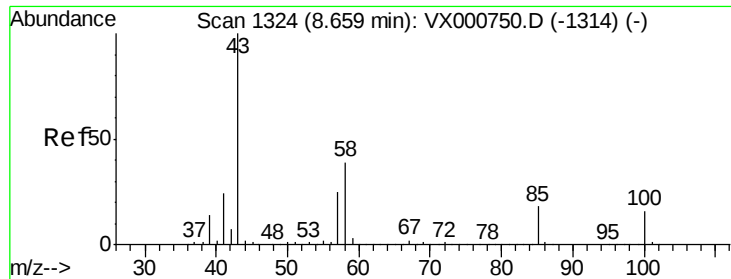
Tgt Ion:	41	Resp:	6178
Ion	Ratio	Lower	Upper
41	100		
39	48.3	44.9	67.3
67	0.0	54.7	82.1#
52	0.0	23.0	34.6#



#50
Toluene-d8
Concen: 47.48 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. 0.01 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Tgt Ion:	98	Resp:	493647
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.6	79.0





#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampled :

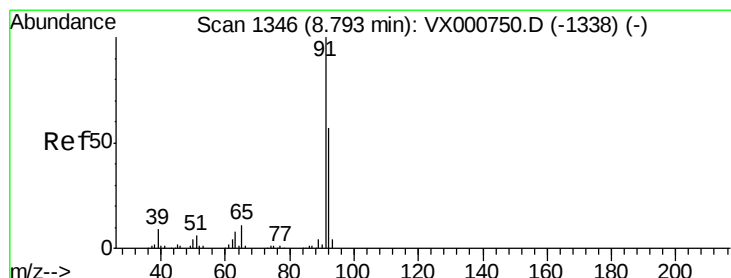
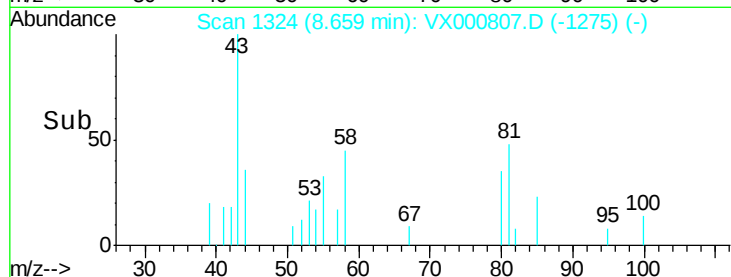
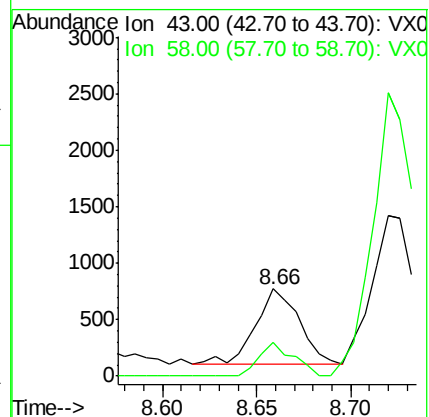
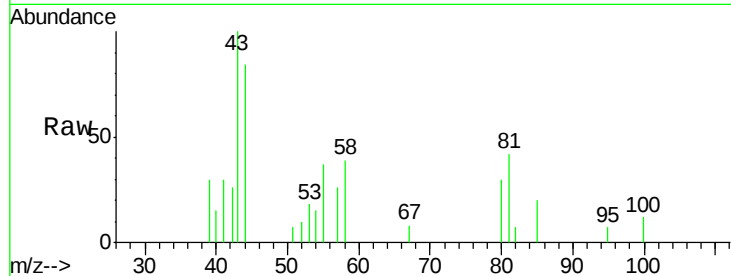
F-4-09-18

Tgt Ion: 43 Resp: 1085

Ion Ratio Lower Upper

43 100

58 34.7 30.3 45.5



#52

Toluene

Concen: 0.23 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000807.D

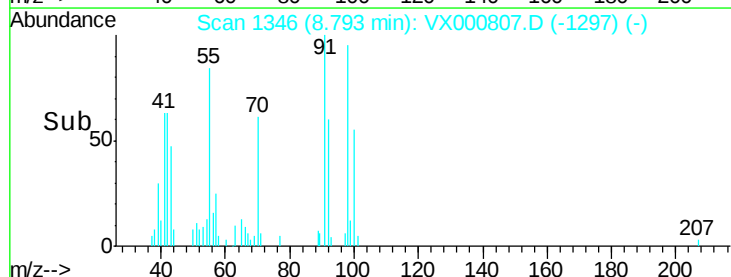
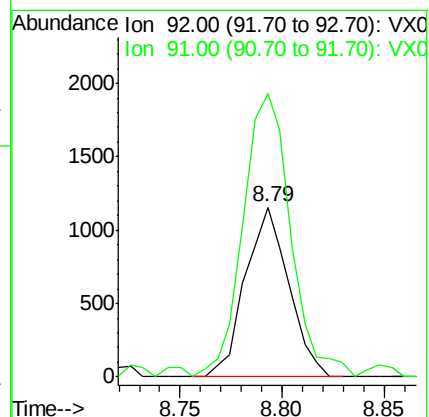
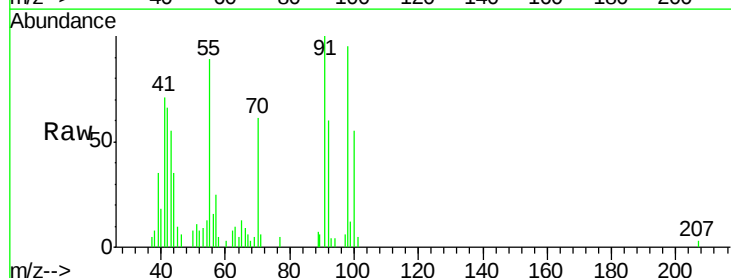
Acq: 12 Apr 2018 17:23

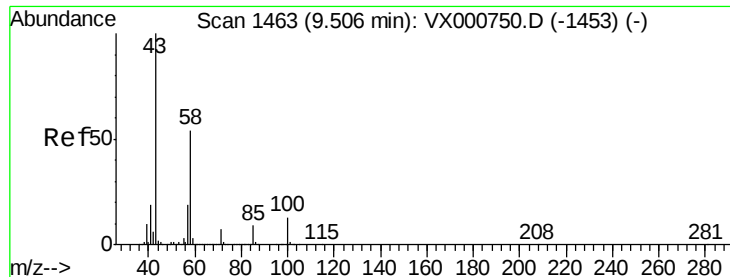
Tgt Ion: 92 Resp: 1711

Ion Ratio Lower Upper

92 100

91 182.4 139.0 208.4

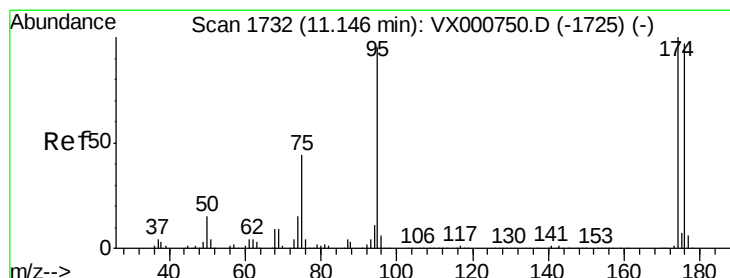
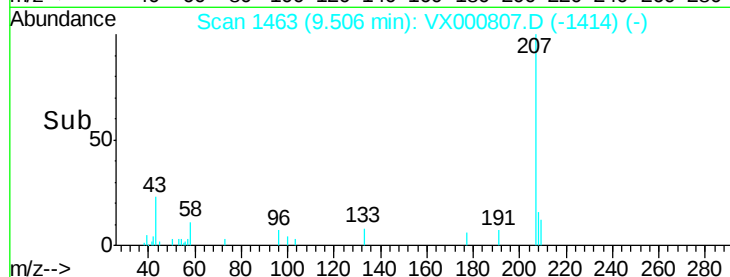
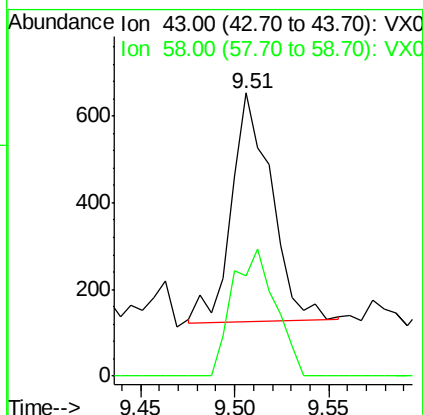
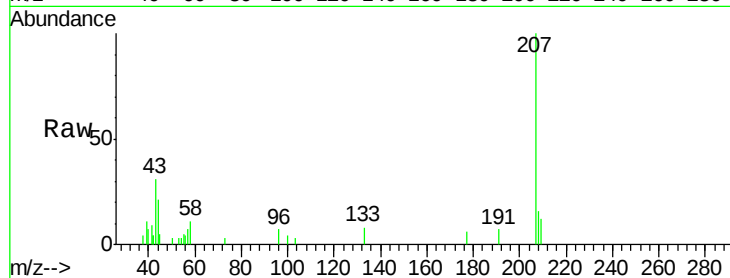




#59
2-Hexanone
Concen: 0.26 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. -0.00 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

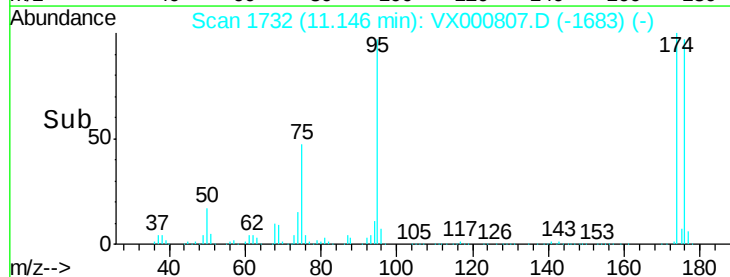
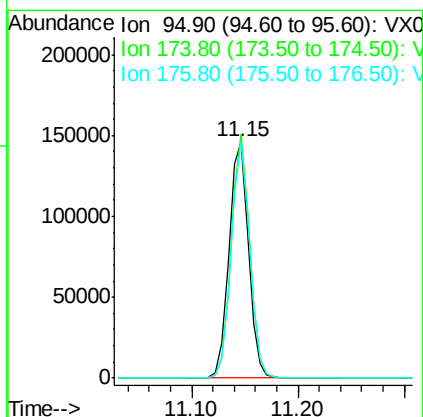
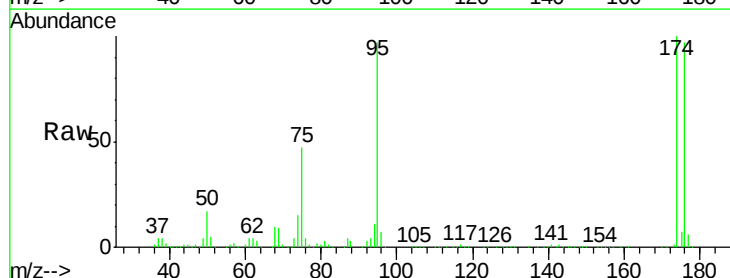
Instrument :
MSVOA_X
ClientSampled :
F-4-09-18

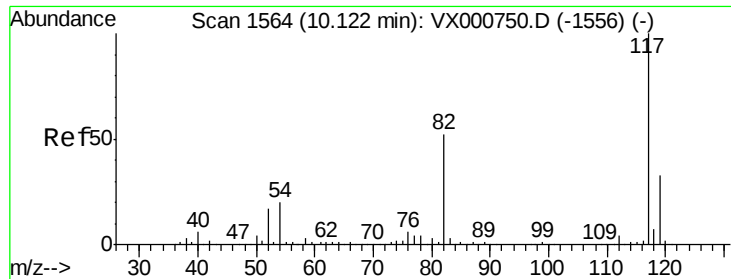
Tgt Ion: 43 Resp: 773
Ion Ratio Lower Upper
43 100
58 59.9 26.5 79.5



#62
4-Bromofluorobenzene
Concen: 43.67 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Tgt Ion: 95 Resp: 187843
Ion Ratio Lower Upper
95 100
174 98.3 0.0 198.4
176 95.5 0.0 194.4

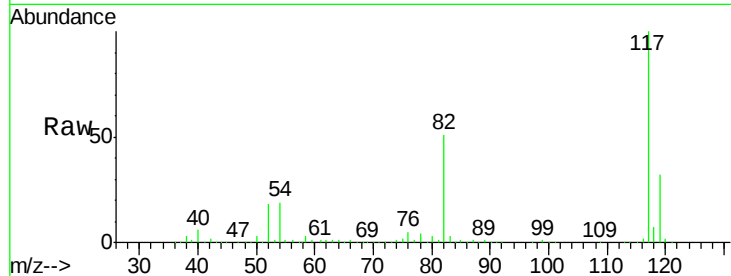




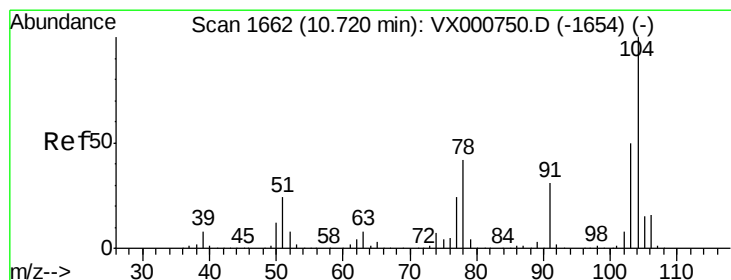
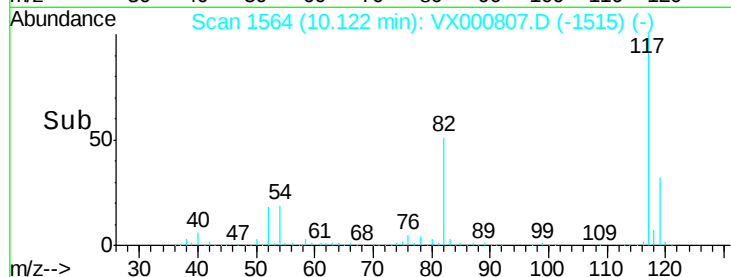
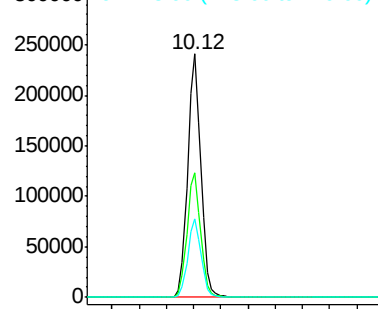
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Instrument :
MSVOA_X
ClientSampled :
F-4-09-18

Tgt Ion:117 Resp: 325483
Ion Ratio Lower Upper
117 100
82 51.3 41.9 62.9
119 32.2 26.0 39.0

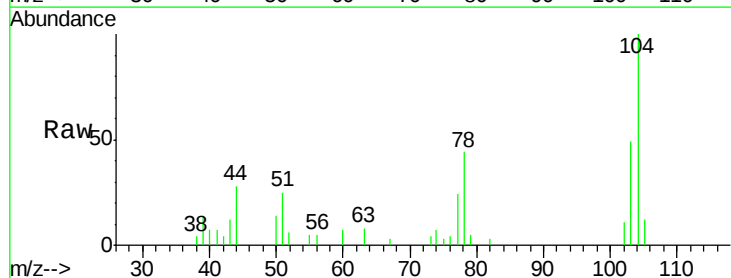


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

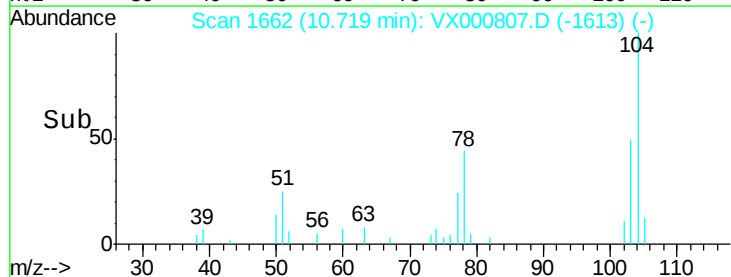
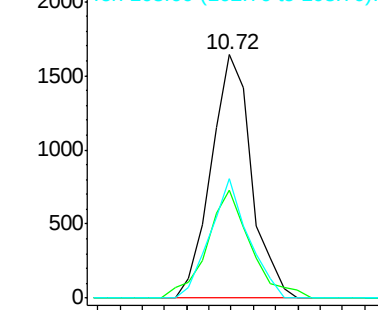


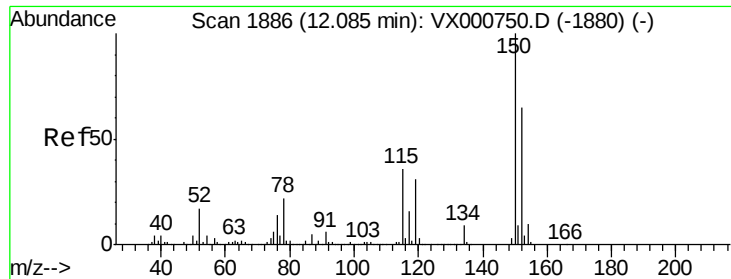
#70
Styrene
Concen: 0.24 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VX000807.D
Acq: 12 Apr 2018 17:23

Tgt Ion:104 Resp: 2069
Ion Ratio Lower Upper
104 100
78 47.9 39.0 58.6
103 46.6 44.1 66.1



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: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

F-4-09-18

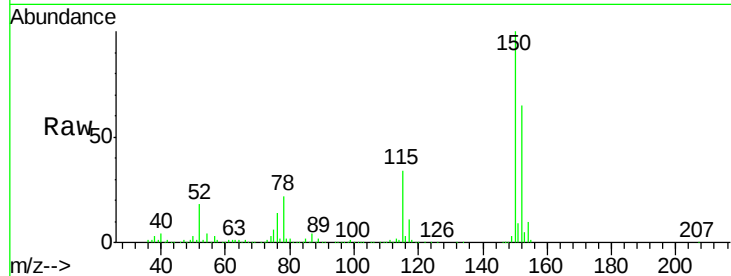
Tgt Ion:152 Resp: 204201

Ion Ratio Lower Upper

152 100

115 52.8 37.9 113.7

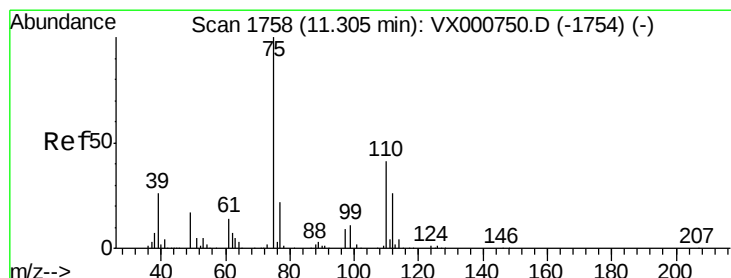
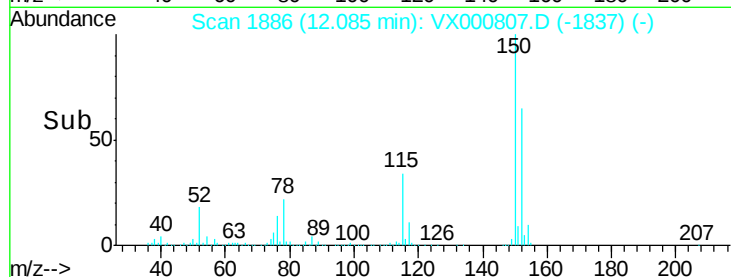
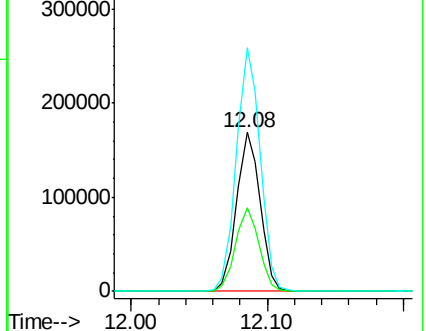
150 154.6 0.0 348.0



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



#76

1,2,3-Trichloropropane

Concen: 26.13 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000807.D

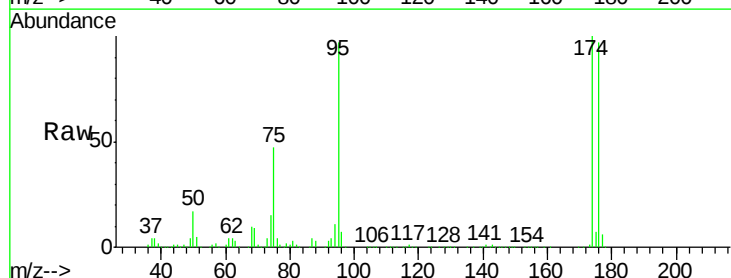
Acq: 12 Apr 2018 17:23

Tgt Ion: 75 Resp: 92021

Ion Ratio Lower Upper

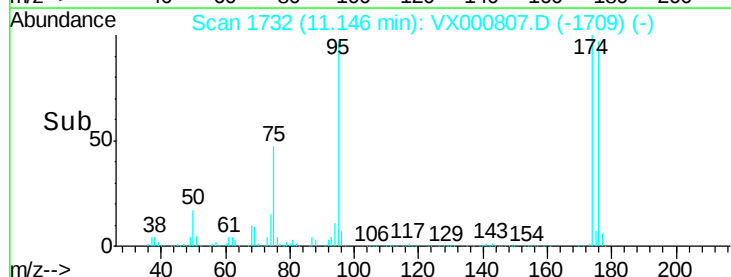
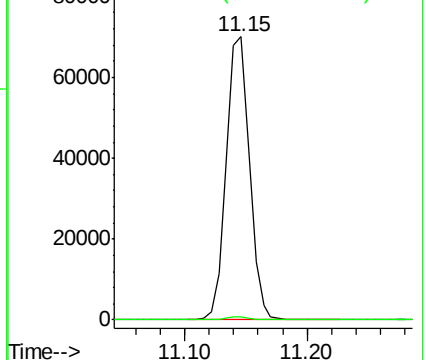
75 100

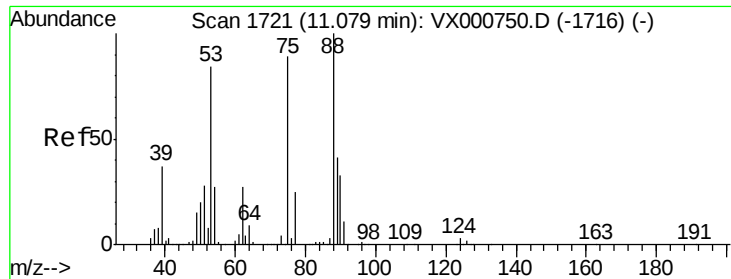
77 1.2 20.5 61.5#



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: 71.88 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000807.D

Acq: 12 Apr 2018 17:23

Instrument :

MSVOA_X

ClientSampleId :

F-4-09-18

Tgt Ion: 75 Resp: 92021

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#

