

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX051718\
 Data File : VX001801.D
 Acq On : 17 May 2018 20:01
 Operator : JC/MD
 Sample : J2853-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

Quant Time: May 18 04:00:49 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	444623	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	371435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	200345	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	237002	55.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.82%	
35) Dibromofluoromethane	5.51	113	200492	53.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.86%	
50) Toluene-d8	8.72	98	701063	52.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	11.15	95	210628	43.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.06%	

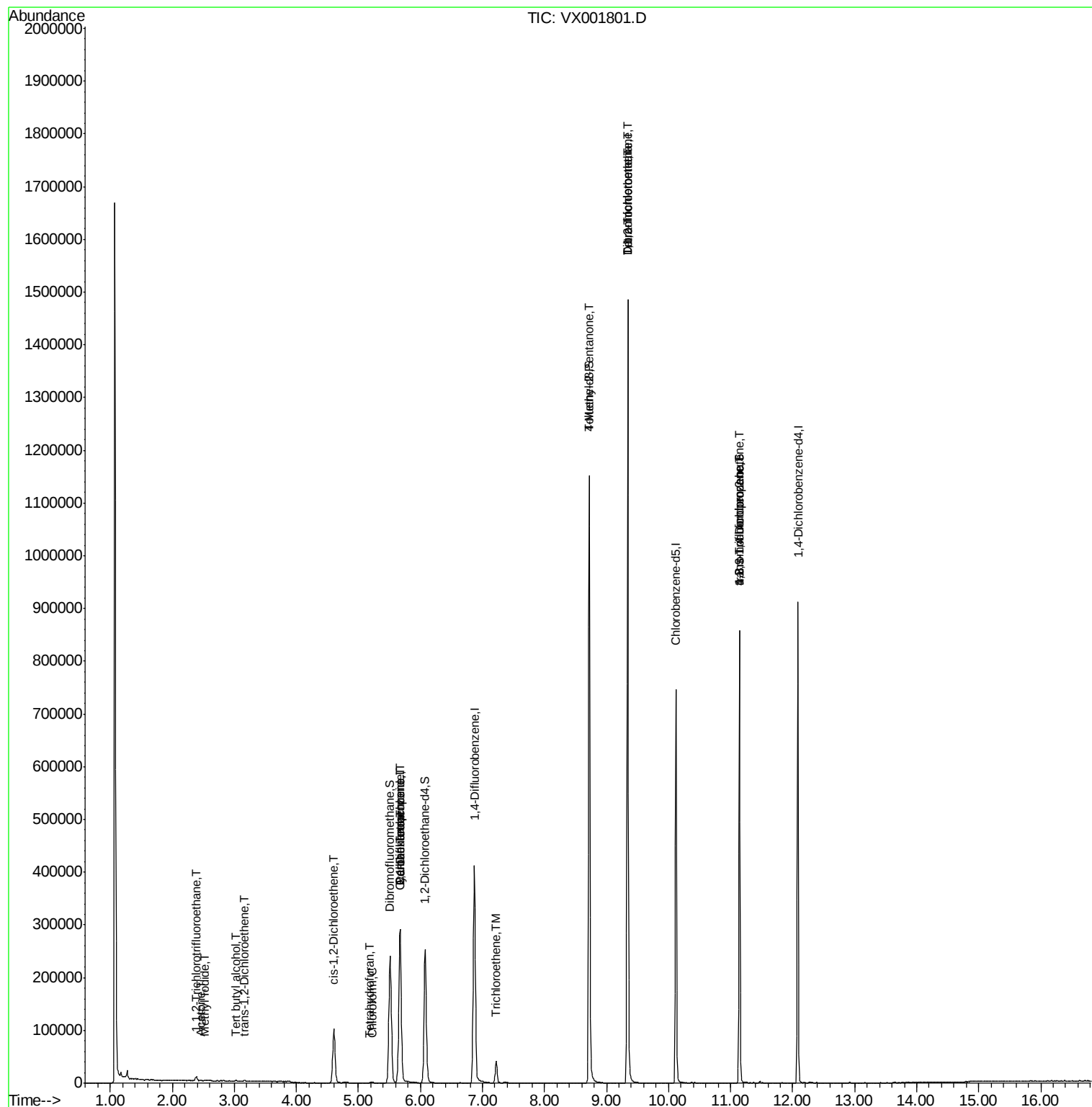
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	497	Below Cal	#	69
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3245	1.00	ug/l	98
10) Methyl Iodide	2.52	142	847	0.28	ug/l	# 90
11) Tert butyl alcohol	3.03	59	804	1.07	ug/l	# 78
16) Acetone	2.46	43	674	0.40	ug/l	89
21) trans-1,2-Dichloroethene	3.16	96	692	0.20	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	65778	16.79	ug/l	91
29) Tetrahydrofuran	5.18	42	370	0.22	ug/l	# 33
30) Chloroform	5.22	83	1386	0.22	ug/l	87
31) Cyclohexane	5.66	56	4916	0.92	ug/l	# 16
36) 1,1-Dichloropropene	5.67	75	18177	3.55	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	26171	4.88	ug/l	# 16
44) Trichloroethene	7.22	130	17464	3.73	ug/l	100
51) 4-Methyl-2-Pentanone	8.72	43	2817	0.53	ug/l	# 1
55) 1,1,2-Trichloroethane	9.34	97	2209	0.60	ug/l	# 1
60) Dibromochloromethane	9.34	129	267380	70.49	ug/l	# 11
64) Tetrachloroethene	9.34	164	323555	66.92	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	99314	26.07	ug/l	# 39
81) trans-1,4-Dichloro-2-buten	11.14	75	99314	75.86	ug/l	# 10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

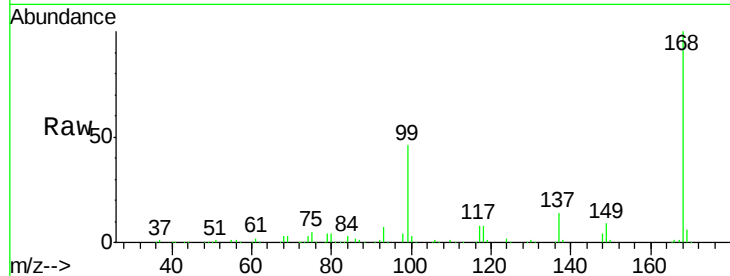
ST008MW026-180507

Tgt Ion:168 Resp: 316231

Ion Ratio Lower Upper

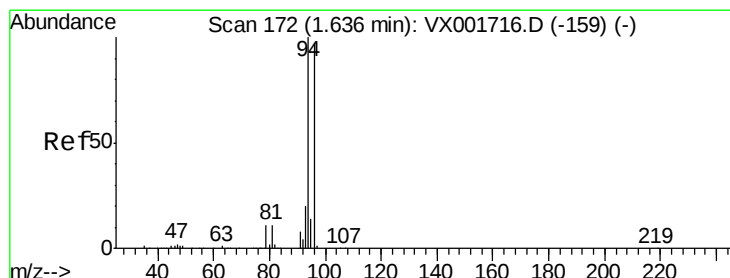
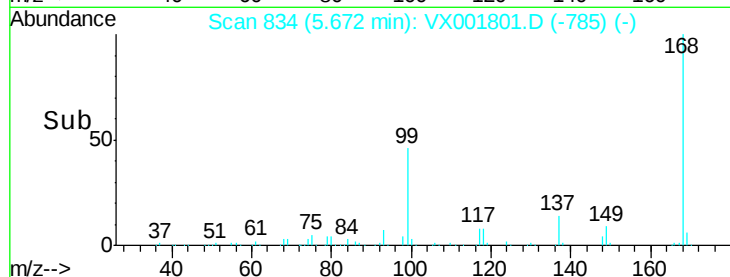
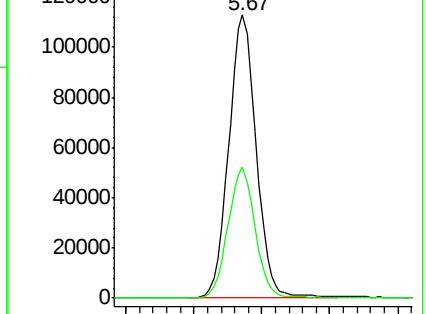
168 100

99 46.1 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX001801.D

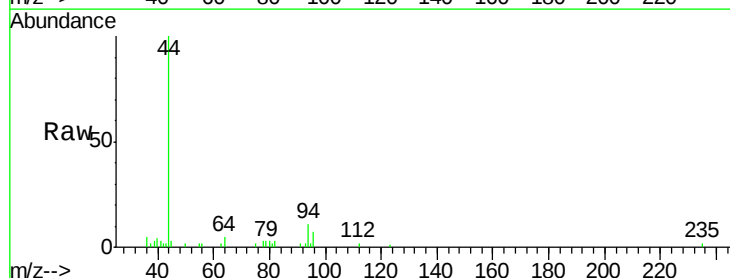
Acq: 17 May 2018 20:01

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

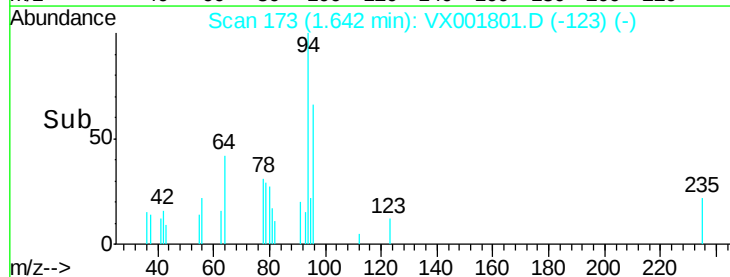
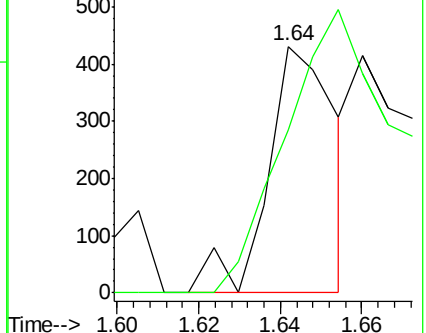
94 100

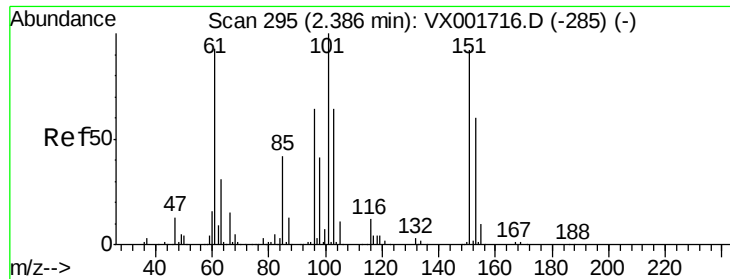
96 65.9 77.4 116.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.00 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

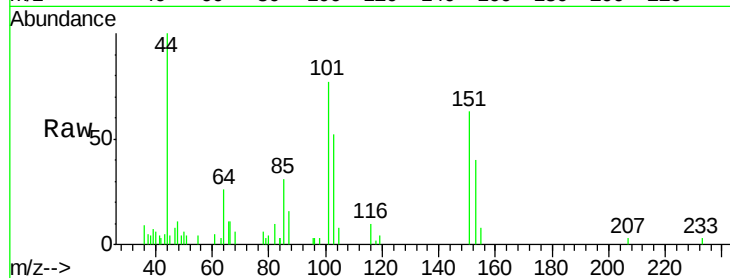
Tgt Ion:101 Resp: 3245

Ion Ratio Lower Upper

101 100

85 41.3 33.7 50.5

151 89.4 73.0 109.6

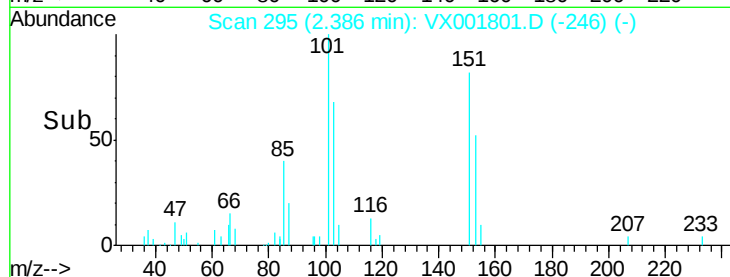


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V

Time--> 2.30 2.35 2.40 2.45

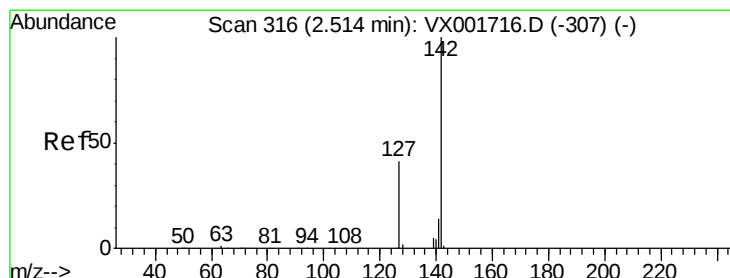


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V

Time--> 2.30 2.35 2.40 2.45



#10

Methyl Iodide

Concen: 0.28 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

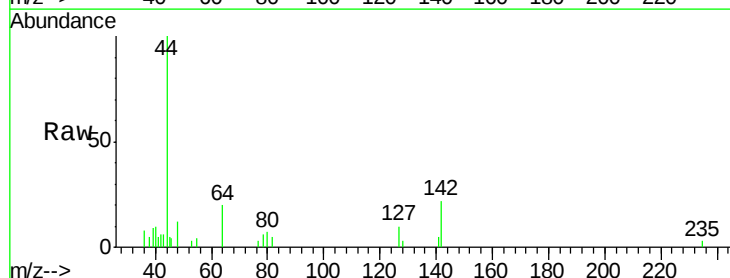
Tgt Ion:142 Resp: 847

Ion Ratio Lower Upper

142 100

127 46.6 32.5 48.7

141 9.9 11.4 17.0#

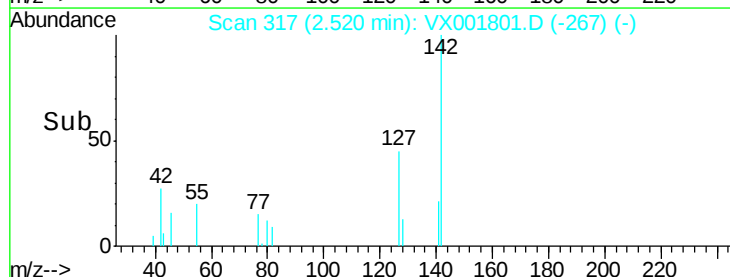


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time--> 2.45 2.50 2.55 2.60

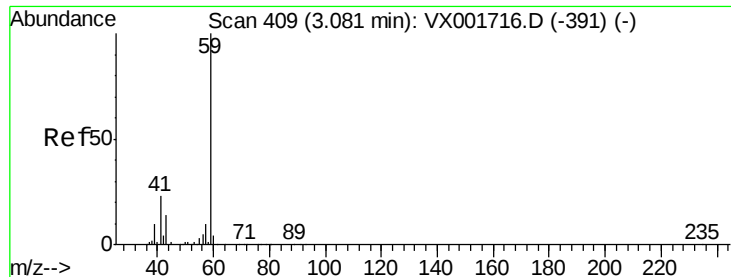


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time--> 2.45 2.50 2.55 2.60

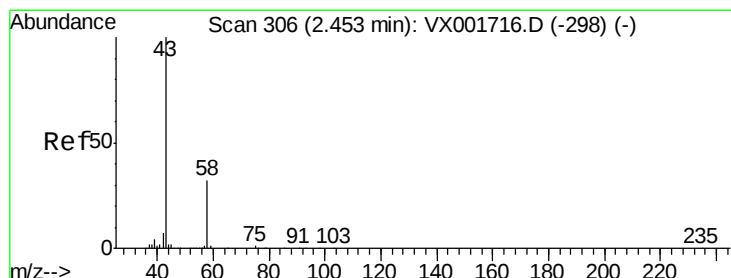
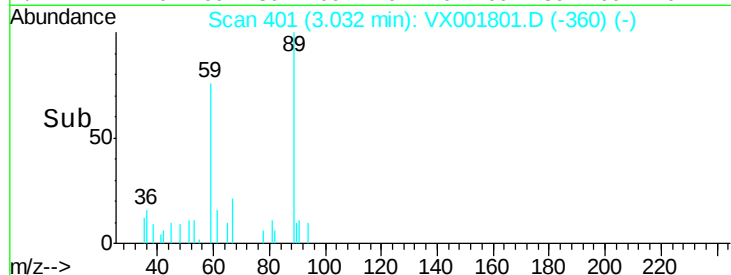
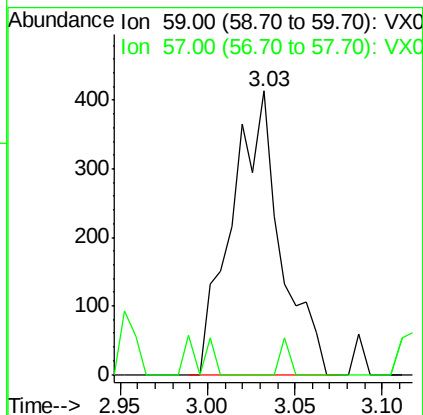
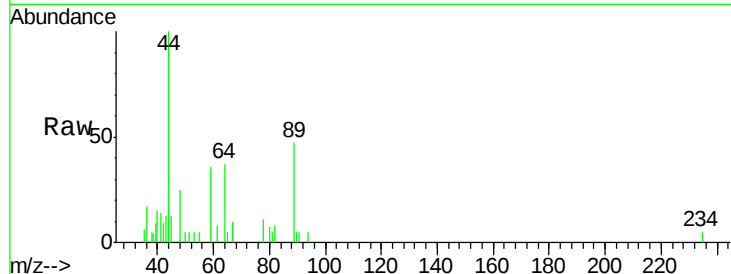


#11

Tert butyl alcohol
 Concen: 1.07 ug/l
 RT: 3.03 min Scan# 401
 Delta R.T. -0.05 min
 Lab File: VX001801.D
 Acq: 17 May 2018 20:01

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

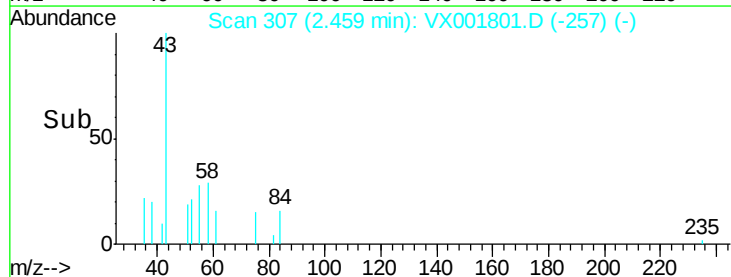
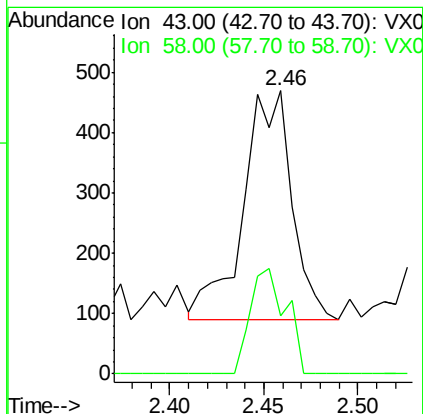
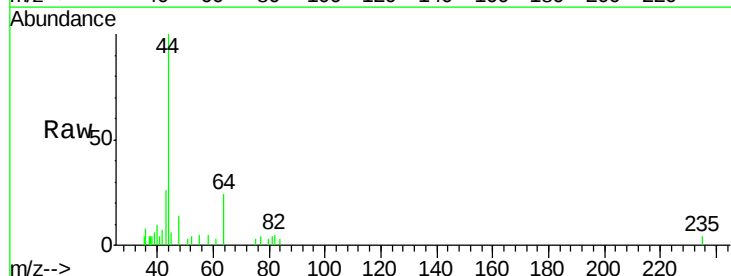
Tgt Ion: 59 Resp: 804
 Ion Ratio Lower Upper
 59 100
 57 2.4 8.5 12.7#

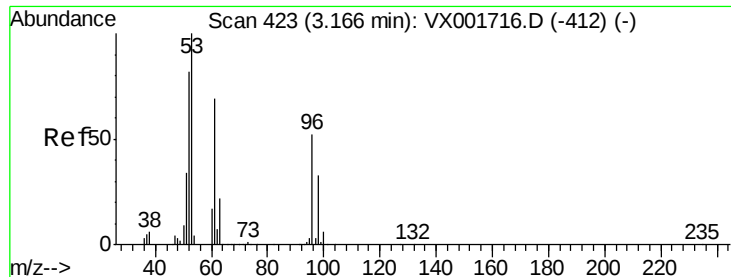


#16

Acetone
 Concen: 0.40 ug/l
 RT: 2.46 min Scan# 307
 Delta R.T. 0.01 min
 Lab File: VX001801.D
 Acq: 17 May 2018 20:01

Tgt Ion: 43 Resp: 674
 Ion Ratio Lower Upper
 43 100
 58 25.4 25.3 37.9





#21

trans-1,2-Dichloroethene

Concen: 0.20 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

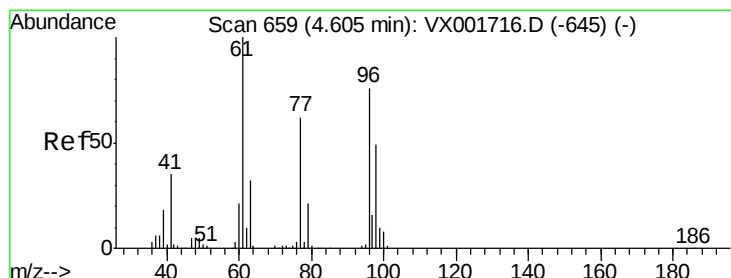
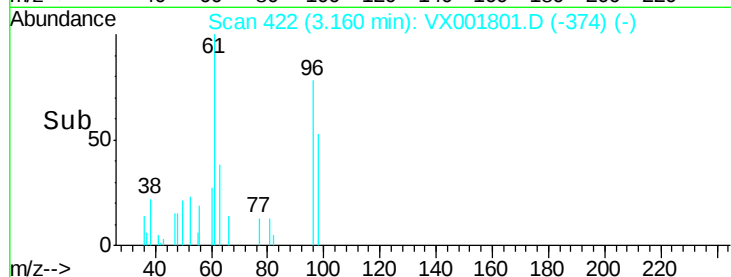
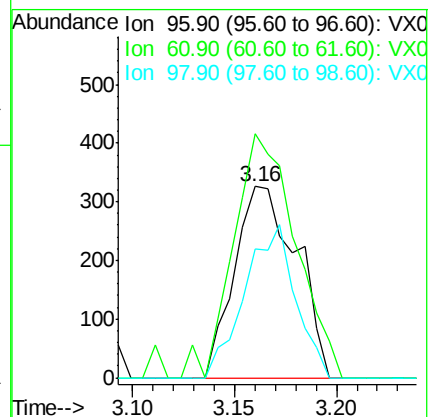
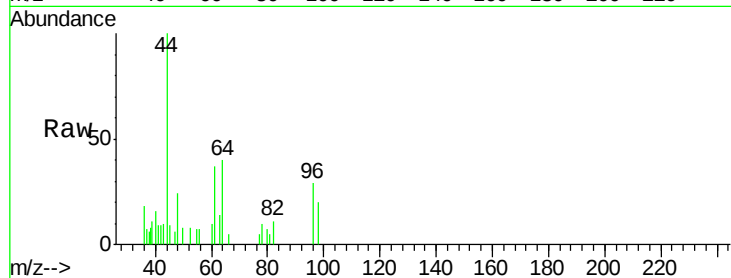
Tgt Ion: 96 Resp: 692

Ion Ratio Lower Upper

96 100

61 127.6 105.8 158.8

98 67.2 50.2 75.4



#27

cis-1,2-Dichloroethene

Concen: 16.79 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

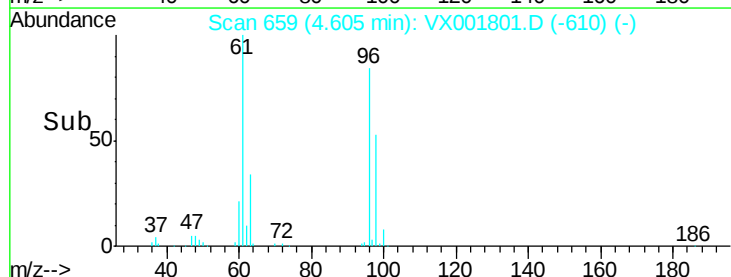
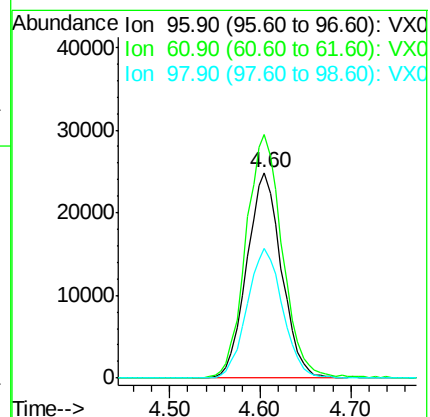
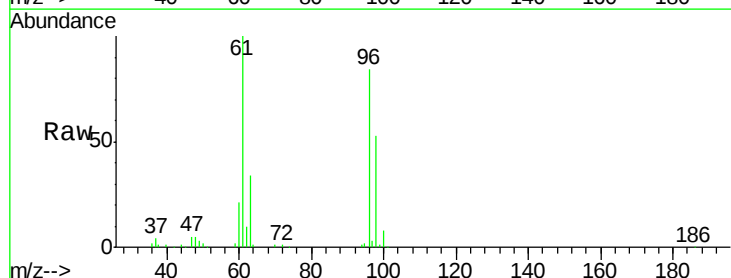
Tgt Ion: 96 Resp: 65778

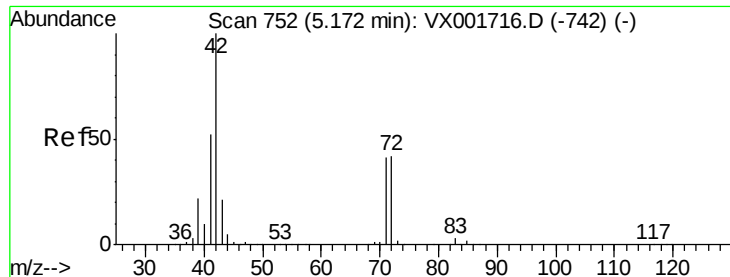
Ion Ratio Lower Upper

96 100

61 124.1 0.0 280.4

98 64.9 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.22 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

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ClientSampleId :

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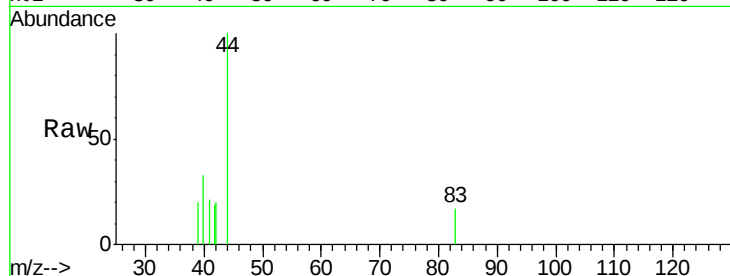
Tgt Ion: 42 Resp: 370

Ion Ratio Lower Upper

42 100

72 0.0 35.4 53.2#

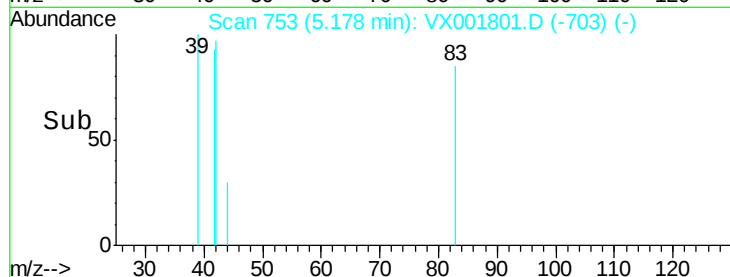
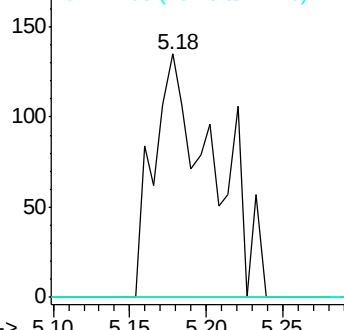
71 0.0 33.2 49.8#



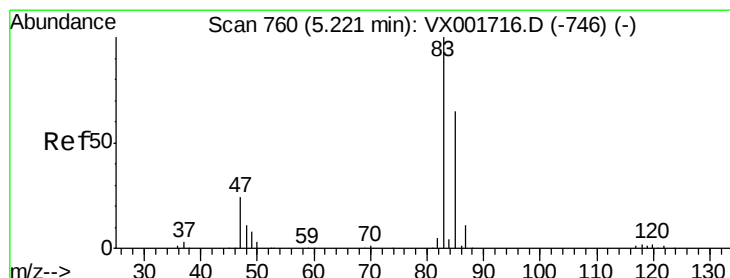
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#30

Chloroform

Concen: 0.22 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX001801.D

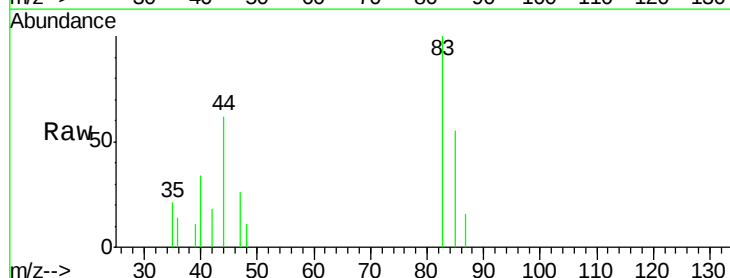
Acq: 17 May 2018 20:01

Tgt Ion: 83 Resp: 1386

Ion Ratio Lower Upper

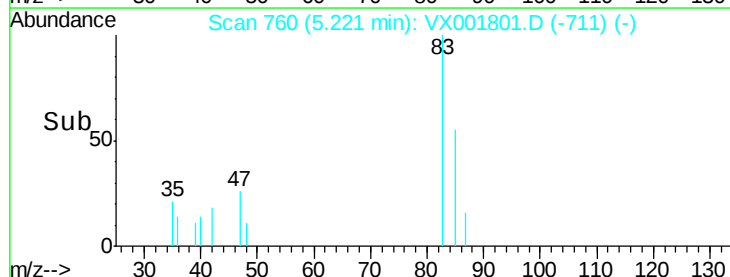
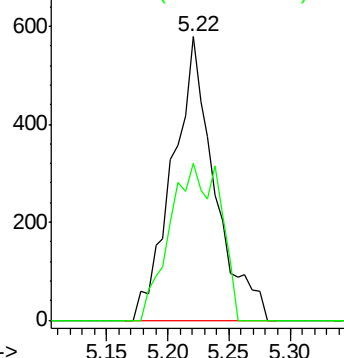
83 100

85 55.4 52.3 78.5

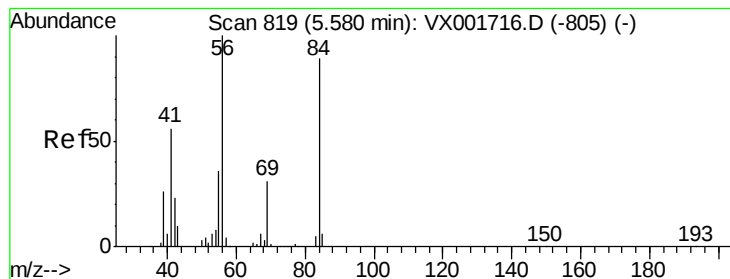


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#31

Cyclohexane

Concen: 0.92 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

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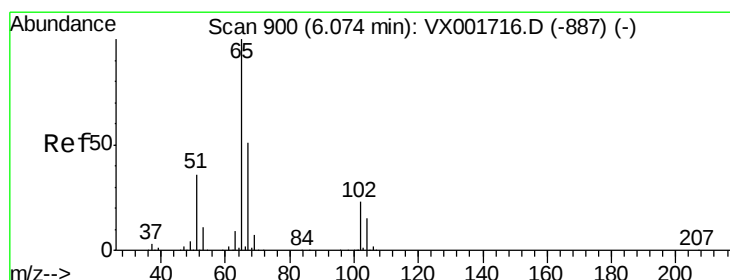
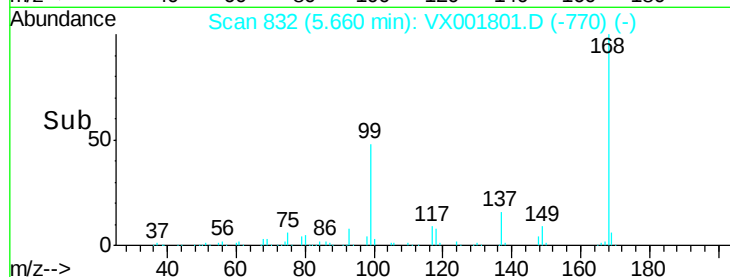
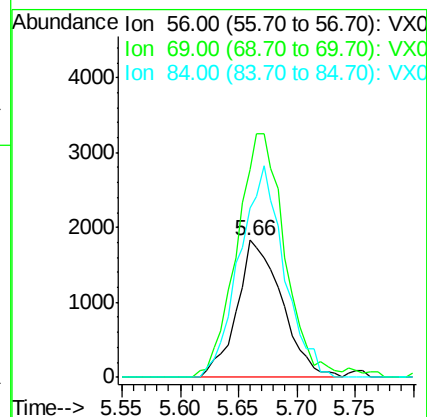
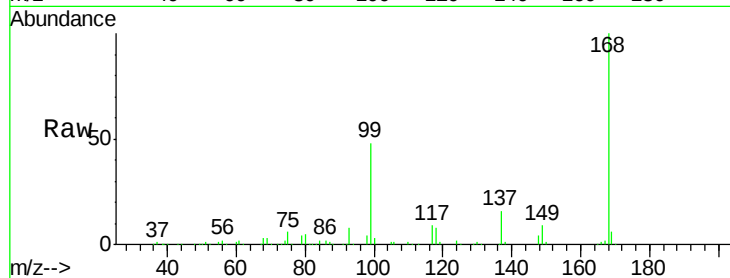
Tgt Ion: 56 Resp: 4916

Ion Ratio Lower Upper

56 100

69 151.9 25.0 37.6#

84 123.4 71.0 106.4#



#33

1,2-Dichloroethane-d4

Concen: 55.91 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001801.D

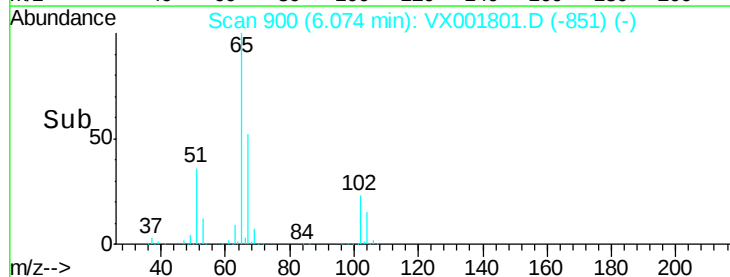
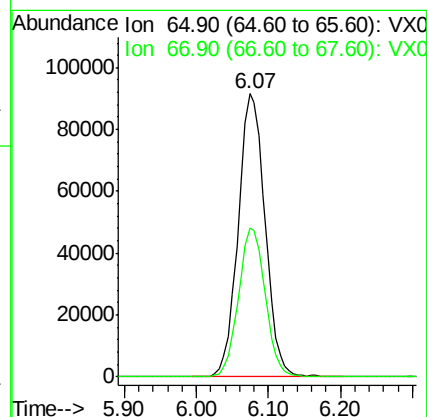
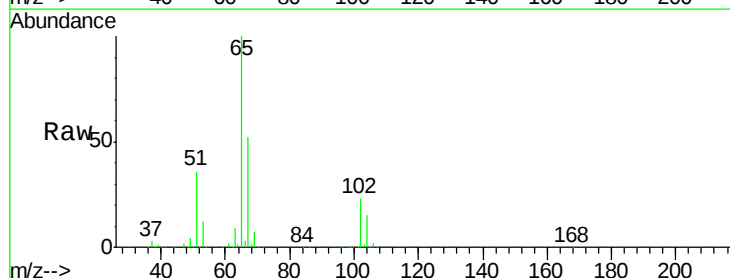
Acq: 17 May 2018 20:01

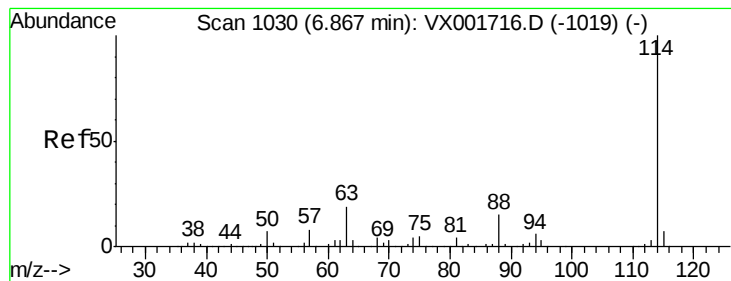
Tgt Ion: 65 Resp: 237002

Ion Ratio Lower Upper

65 100

67 52.4 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

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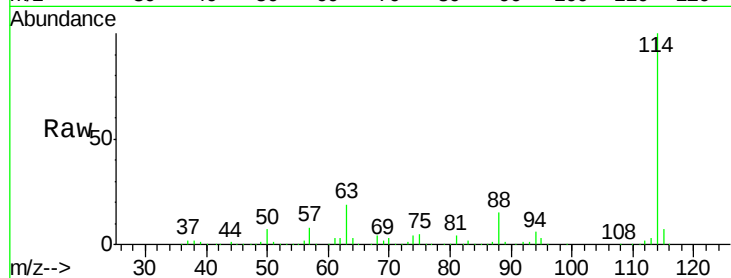
Tgt Ion:114 Resp: 444623

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.0

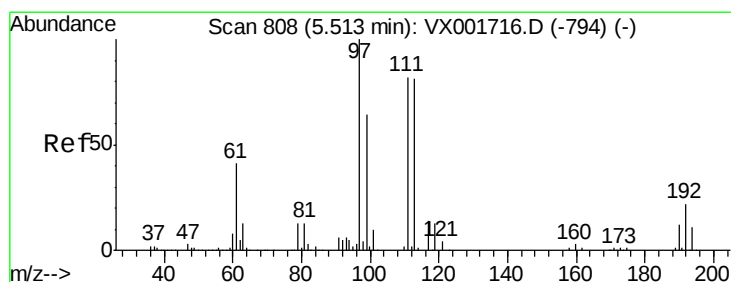
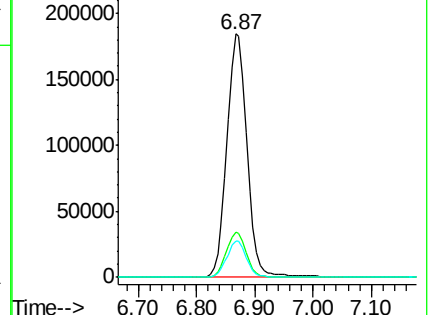
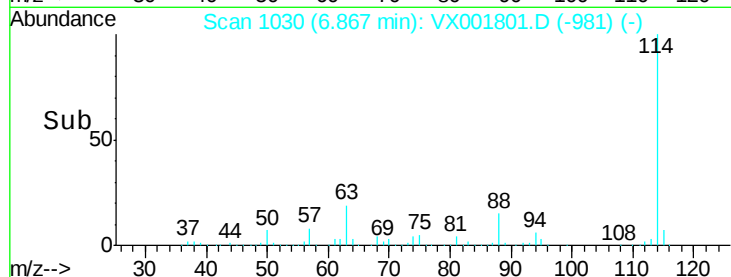
88 14.8 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.43 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

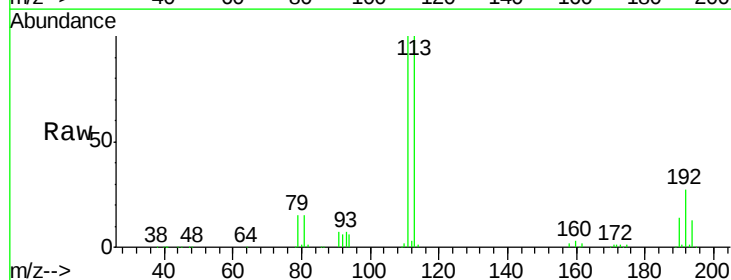
Tgt Ion:113 Resp: 200492

Ion Ratio Lower Upper

113 100

111 101.3 82.0 123.0

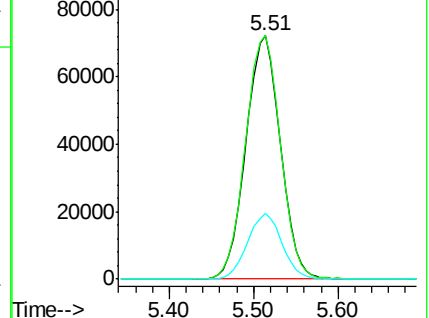
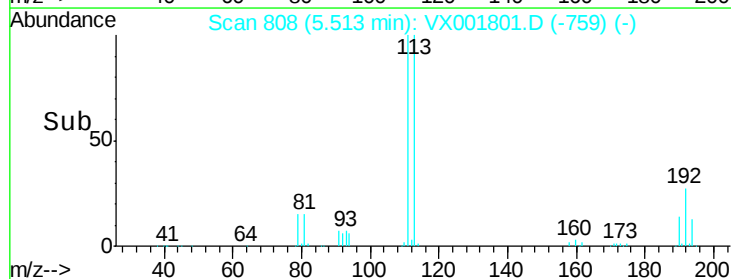
192 27.0 21.6 32.4

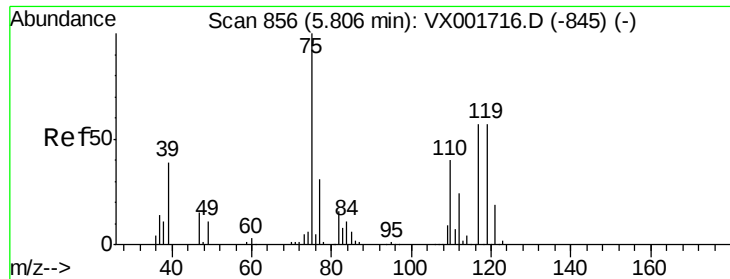


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

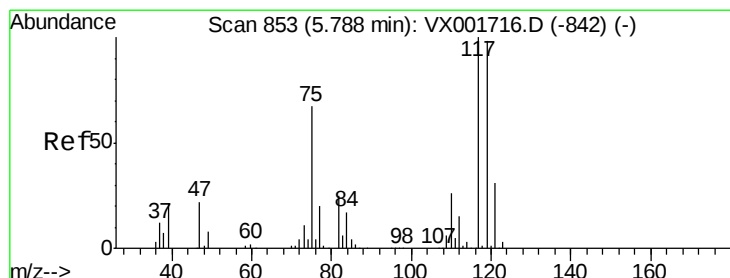
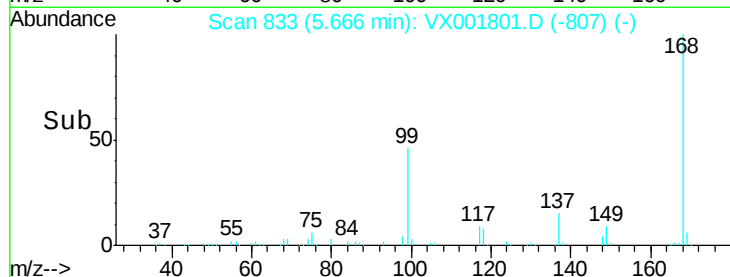
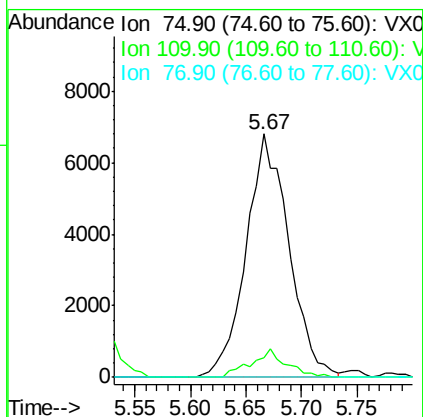
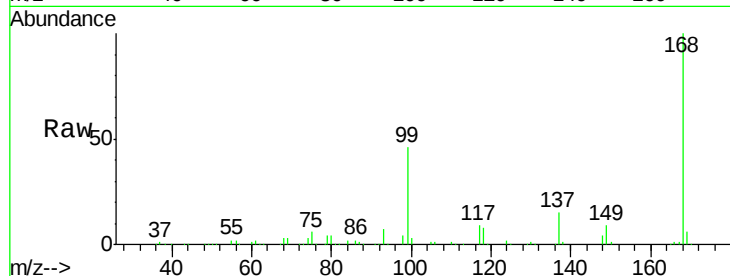




#36
 1,1-Dichloropropene
 Concen: 3.55 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001801.D
 Acq: 17 May 2018 20:01

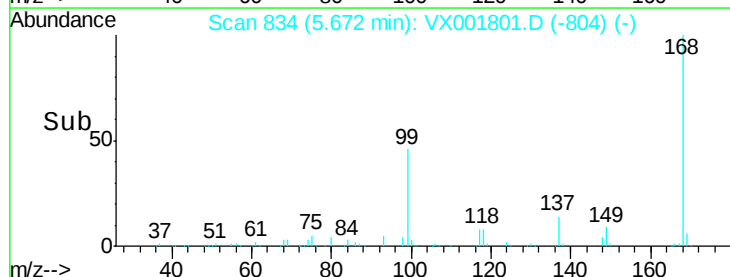
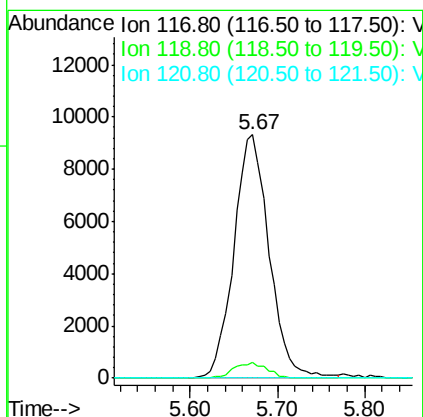
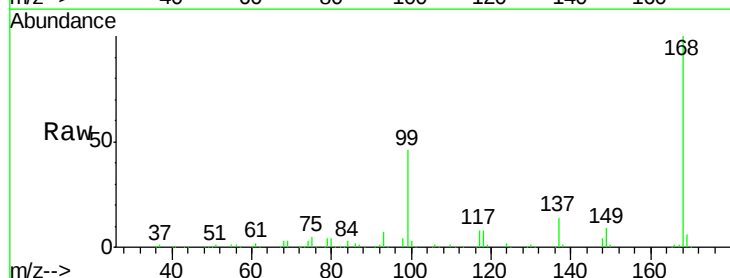
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW026-180507

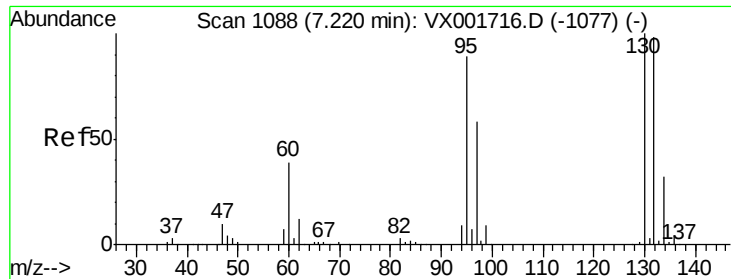
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	19.1	57.1#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 4.88 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX001801.D
 Acq: 17 May 2018 20:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.6	116.4#
121	0.0	24.6	36.8#





#44

Trichloroethene

Concen: 3.73 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

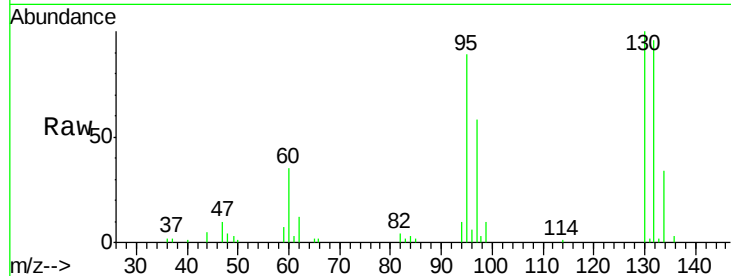
ST008MW026-180507

Tgt Ion:130 Resp: 17464

Ion Ratio Lower Upper

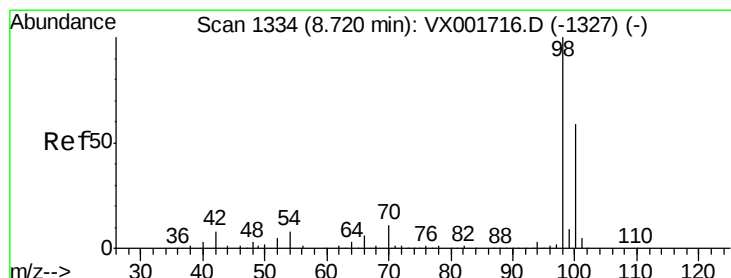
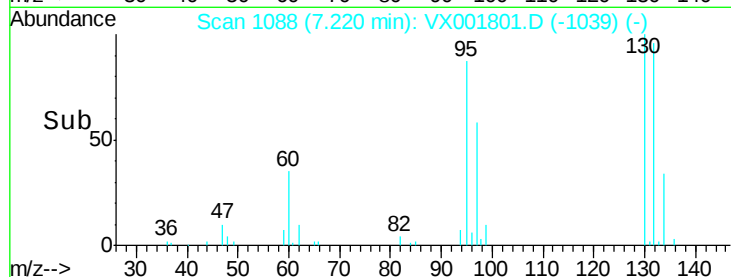
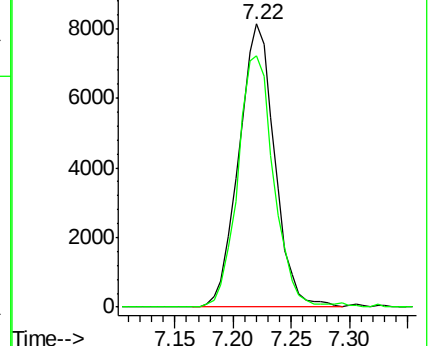
130 100

95 88.8 0.0 177.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.17 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001801.D

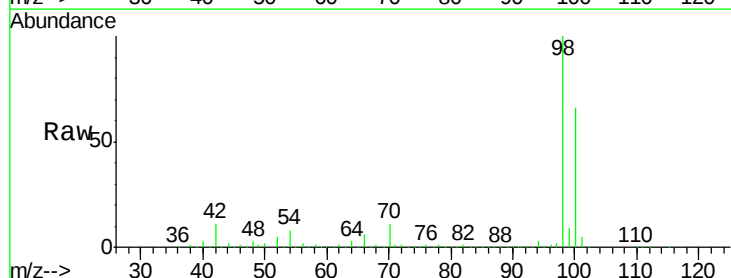
Acq: 17 May 2018 20:01

Tgt Ion: 98 Resp: 701063

Ion Ratio Lower Upper

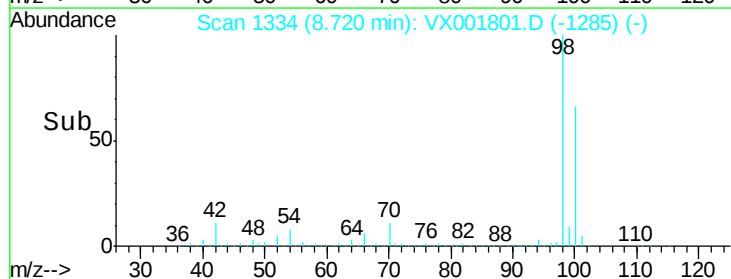
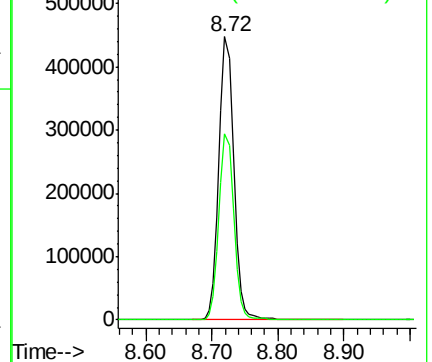
98 100

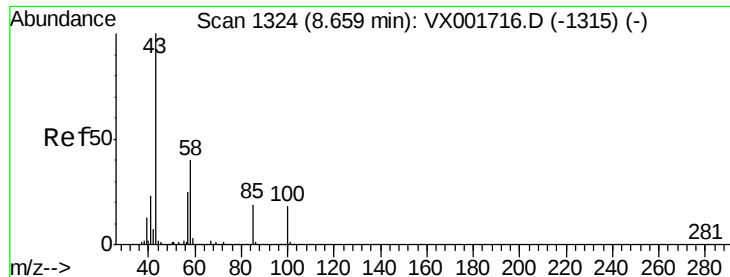
100 66.2 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.06 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

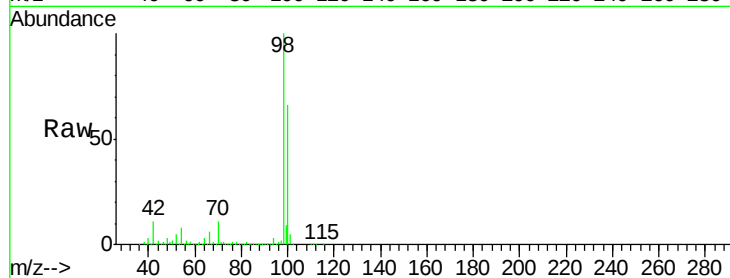
ST008MW026-180507

Tgt Ion: 43 Resp: 2817

Ion Ratio Lower Upper

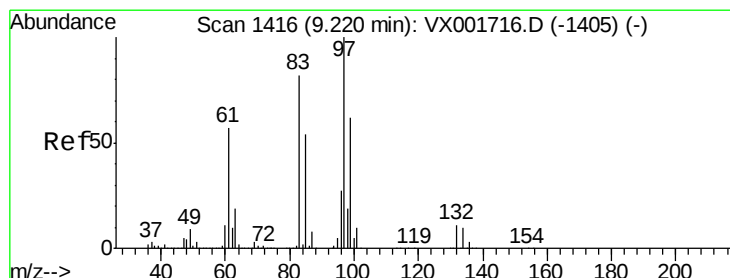
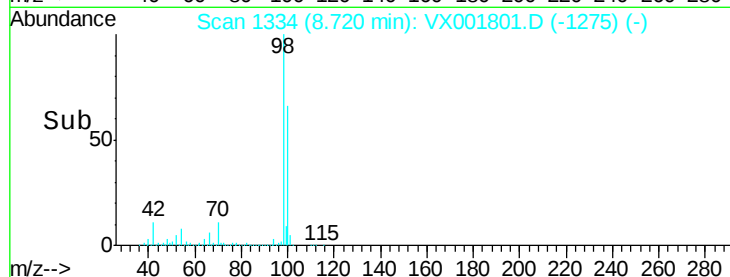
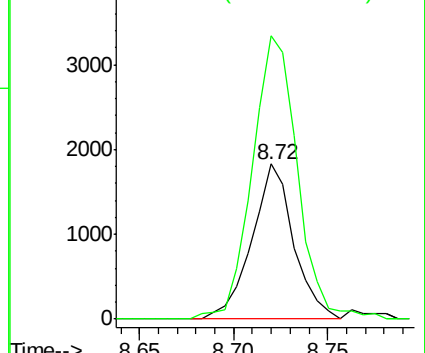
43 100

58 197.2 31.4 47.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.60 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.12 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Tgt Ion: 97 Resp: 2209

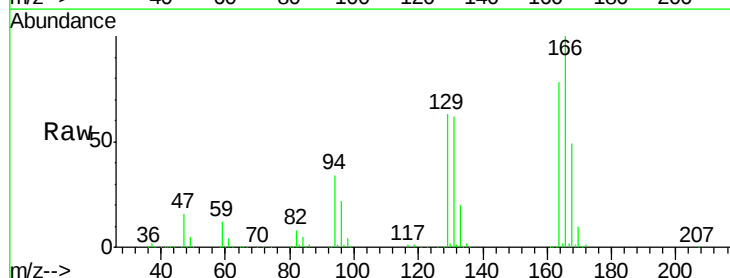
Ion Ratio Lower Upper

97 100

83 273.7 65.8 98.8#

85 32.9 43.4 65.0#

99 18.4 49.8 74.6#

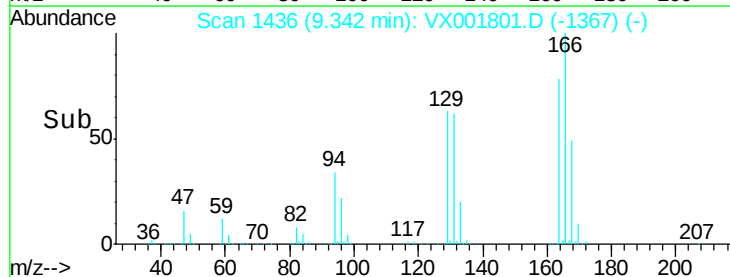
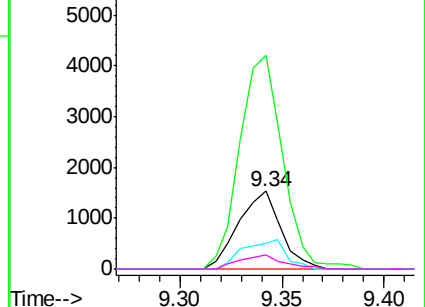


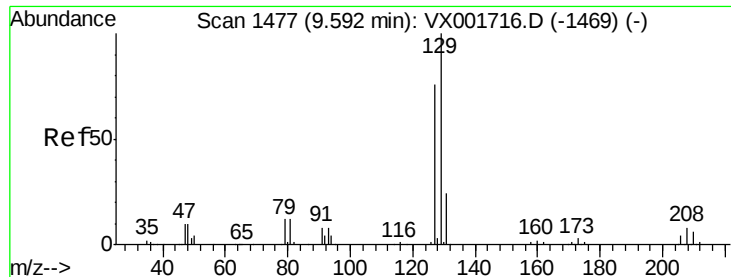
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0





#60

Dibromochloromethane

Concen: 70.49 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

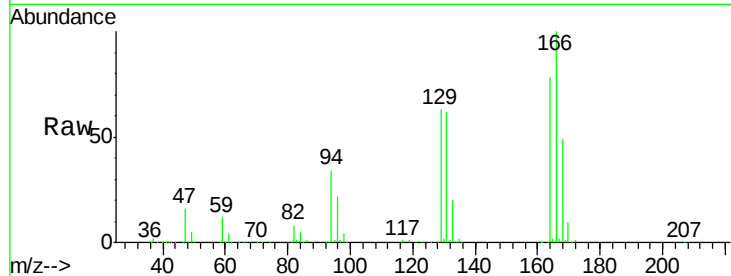
ST008MW026-180507

Tgt Ion:129 Resp: 267380

Ion Ratio Lower Upper

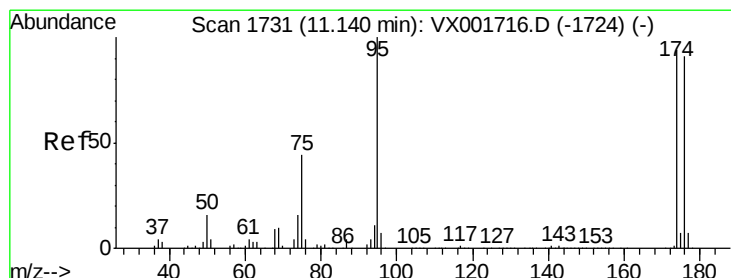
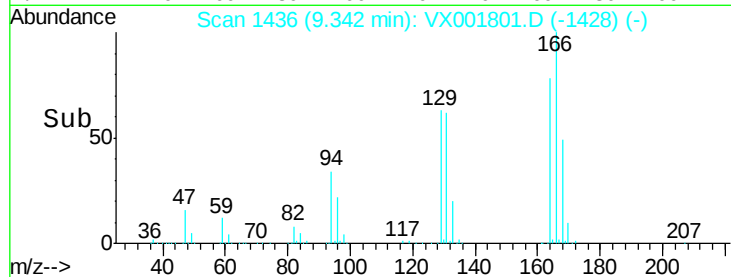
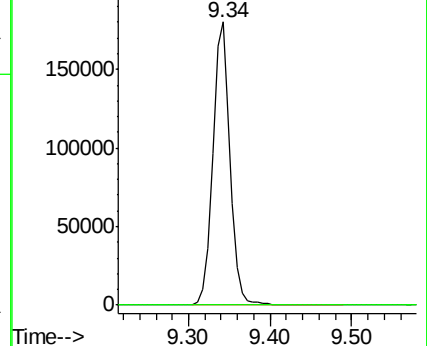
129 100

127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.53 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.01 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

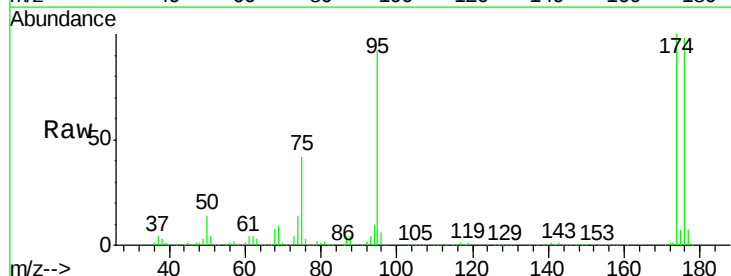
Tgt Ion: 95 Resp: 210628

Ion Ratio Lower Upper

95 100

174 103.4 0.0 201.8

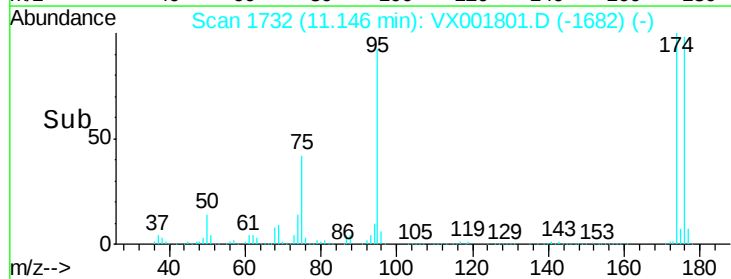
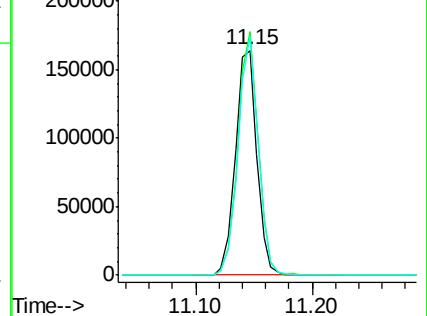
176 99.8 0.0 196.8

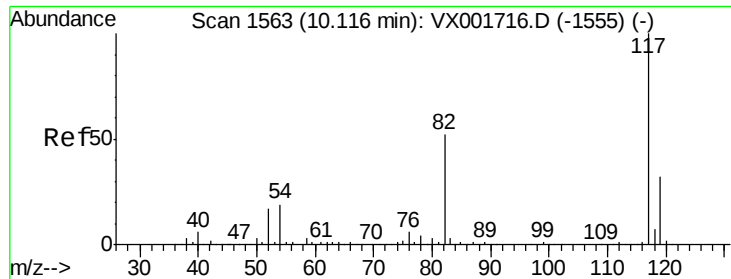


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

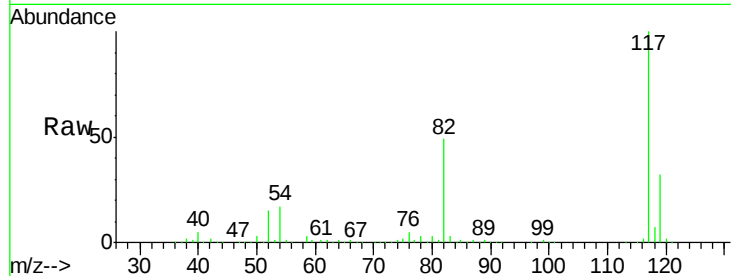
Tgt Ion:117 Resp: 371435

Ion Ratio Lower Upper

117 100

82 48.8 41.4 62.2

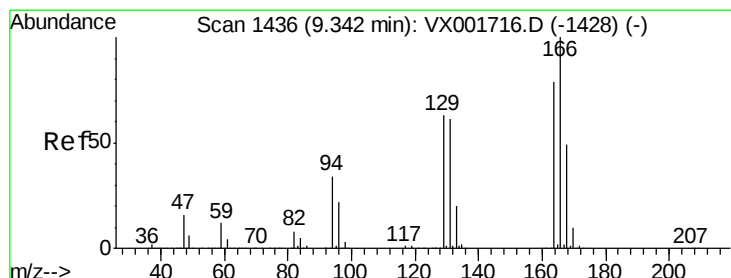
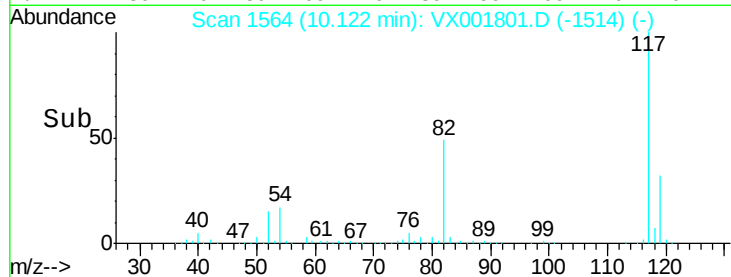
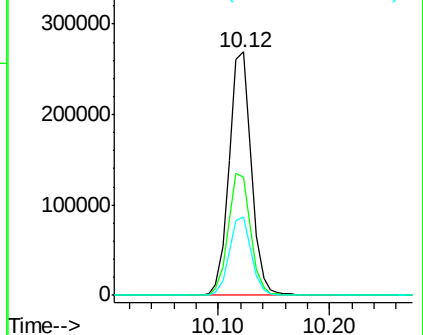
119 32.0 25.6 38.4



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



#64

Tetrachloroethene

Concen: 66.92 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Tgt Ion:164 Resp: 323555

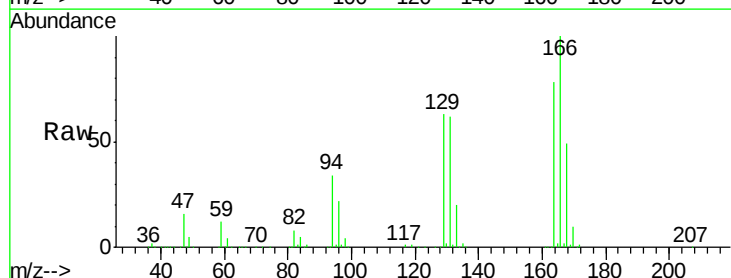
Ion Ratio Lower Upper

164 100

166 128.2 101.8 152.8

129 80.4 63.8 95.6

131 79.4 62.2 93.2

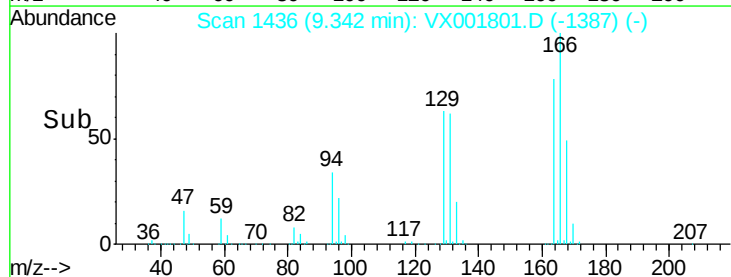
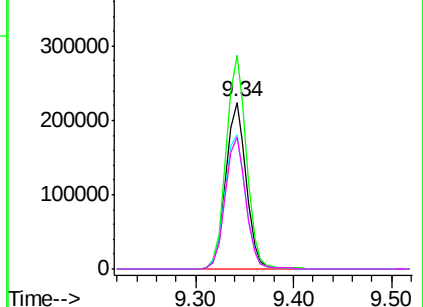


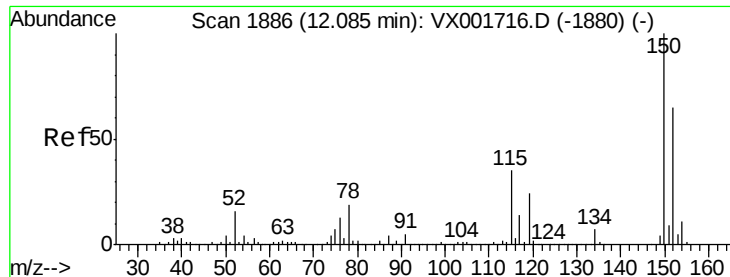
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

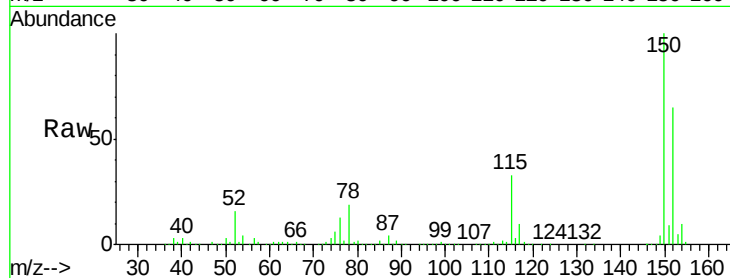
Tgt Ion:152 Resp: 200345

Ion Ratio Lower Upper

152 100

115 51.5 37.4 112.2

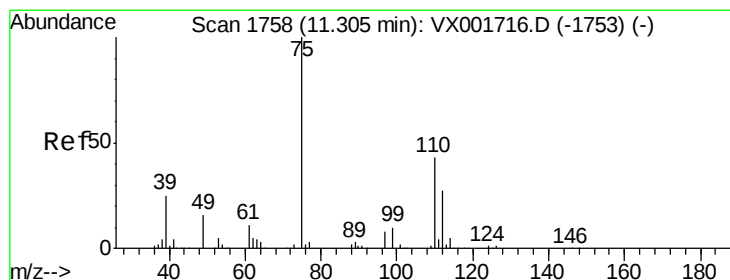
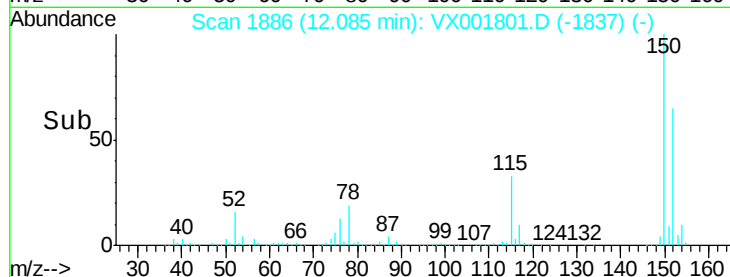
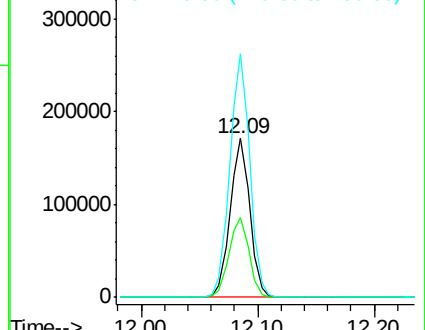
150 155.5 0.0 344.8



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: 26.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001801.D

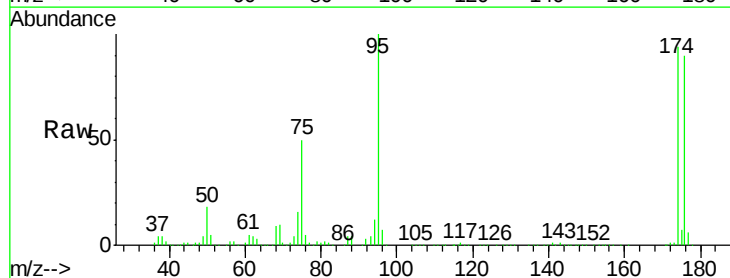
Acq: 17 May 2018 20:01

Tgt Ion: 75 Resp: 99314

Ion Ratio Lower Upper

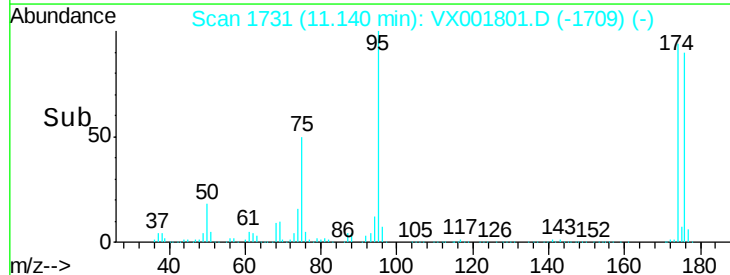
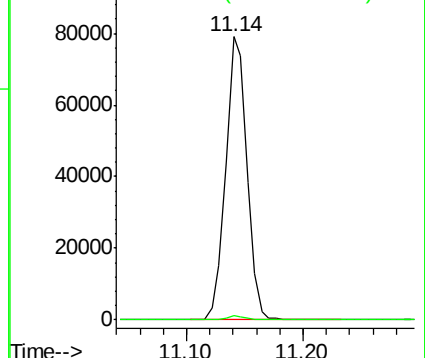
75 100

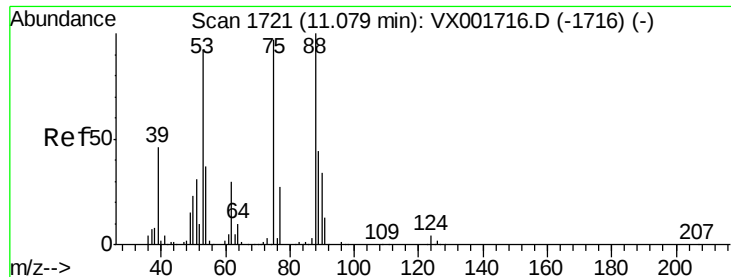
77 1.3 18.9 56.7#



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: 75.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001801.D

Acq: 17 May 2018 20:01

Instrument :

MSVOA_X

ClientSampleId :

ST008MW026-180507

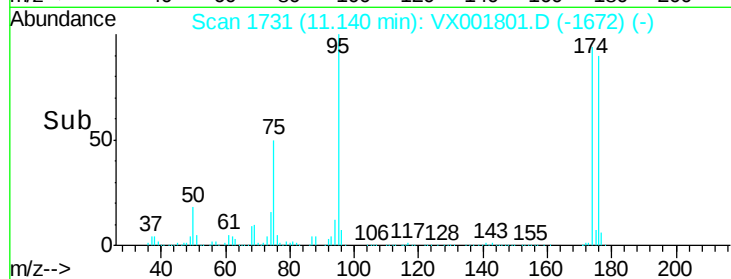
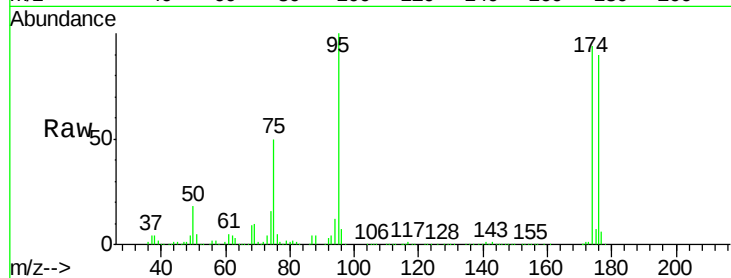
Tgt Ion: 75 Resp: 99314

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.2#

89 0.0 38.8 58.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

