

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003109.D
 Acq On : 01 Jul 2018 06:26
 Operator : JC/MD
 Sample : J3799-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19

Quant Time: Jul 02 04:58:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	370545	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194690	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	173654	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
35) Dibromofluoromethane	5.51	113	141877	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	8.72	98	518029	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	11.14	95	180804	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	

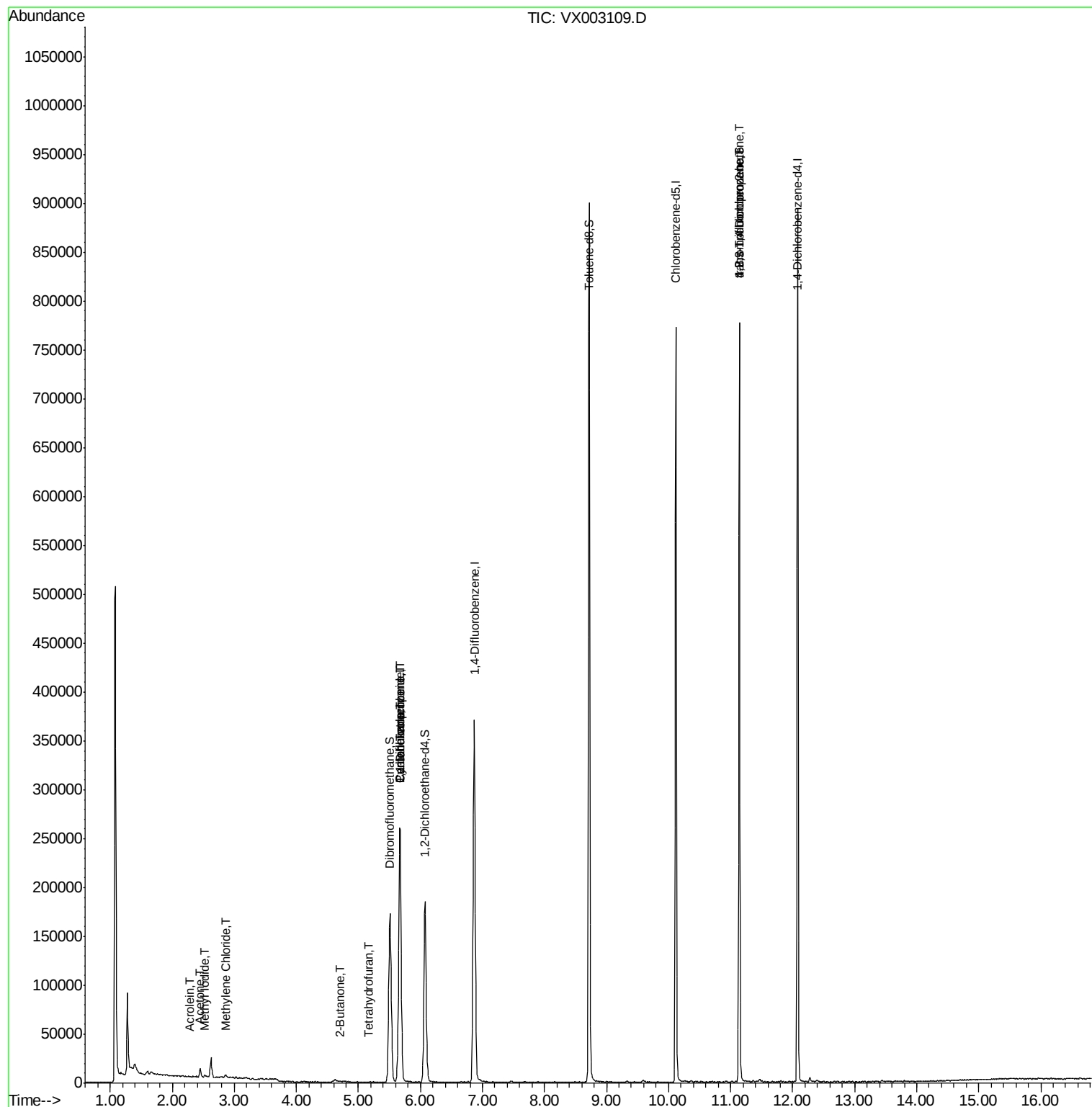
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	57	Below Cal	#	1
3) Chloromethane	1.32	50	1240	Below Cal		96
5) Bromomethane	1.66	94	1954	Below Cal		99
6) Chloroethane	1.72	64	542	Below Cal	#	46
10) Methyl Iodide	2.52	142	2101	6.84	ug/l	95
13) Acrolein	2.28	56	102	4.48	ug/l	# 14
16) Acetone	2.45	43	9327	6.12	ug/l	92
20) Methylene Chloride	2.87	84	1112	0.37	ug/l	# 81
25) 2-Butanone	4.71	43	713	0.31	ug/l	98
29) Tetrahydrofuran	5.17	42	365	0.25	ug/l	# 57
31) Cyclohexane	5.66	56	5276	1.14	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17228	4.24	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23431	5.25	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	91599	25.97	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91599	73.66	ug/l	# 7

(#) = 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. 0.01 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

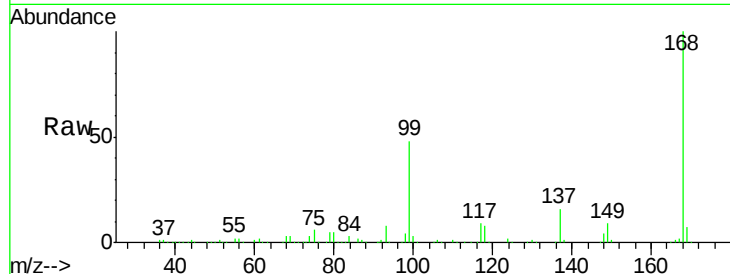
MW-19

Tot Ion:168 Resp: 266454

Ion Ratio Lower Upper

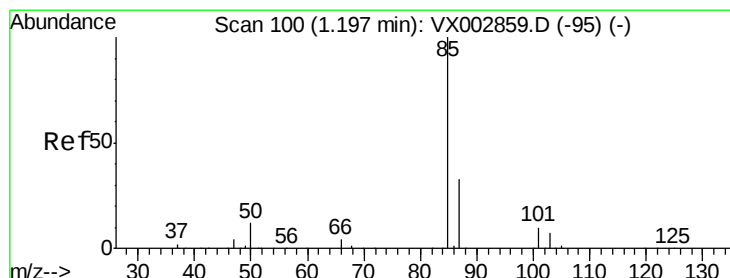
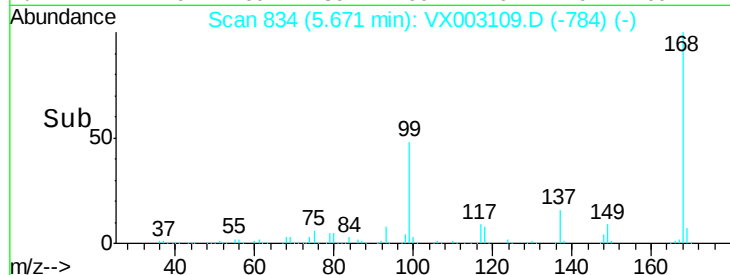
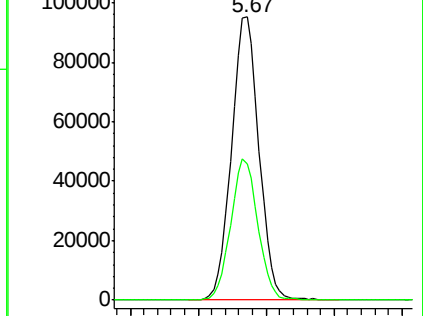
168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003109.D

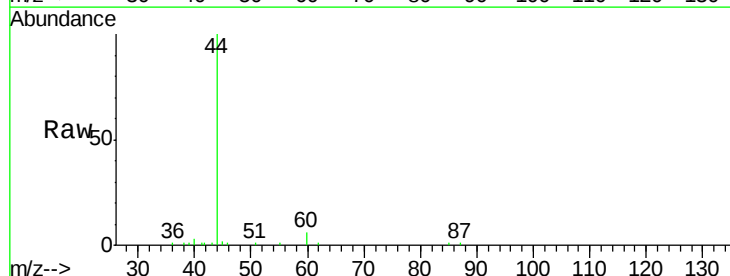
Acq: 01 Jul 2018 06:26

Tgt Ion: 85 Resp: 57

Ion Ratio Lower Upper

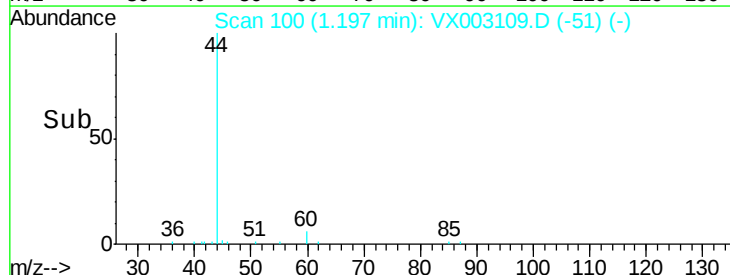
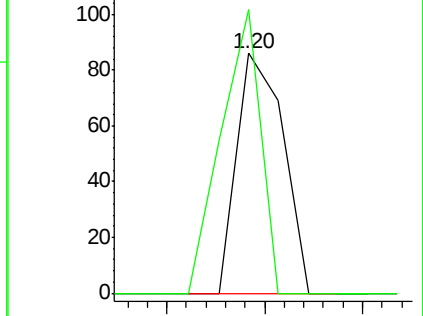
85 100

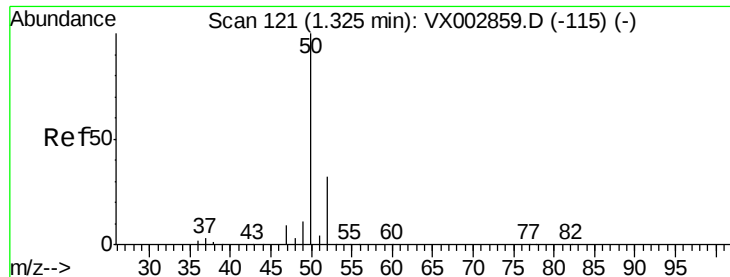
87 118.6 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

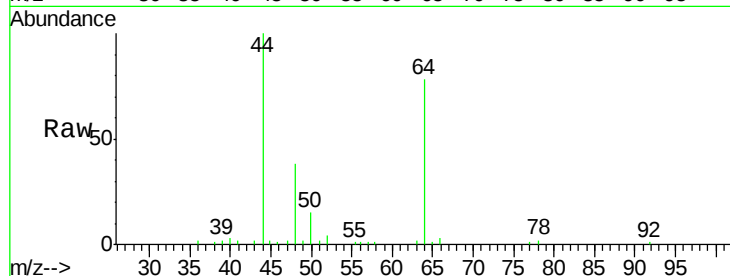
MW-19

Tot Ion: 50 Resp: 1240

Ion Ratio Lower Upper

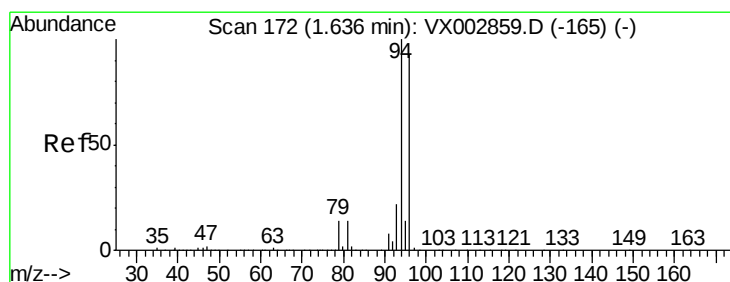
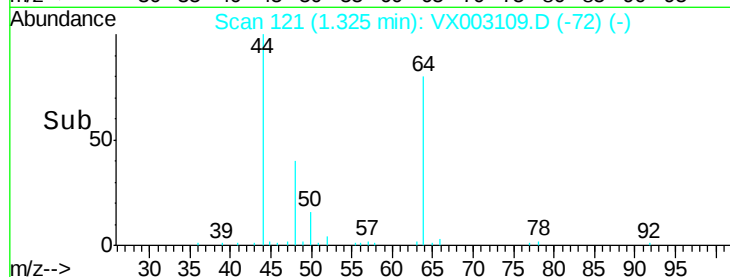
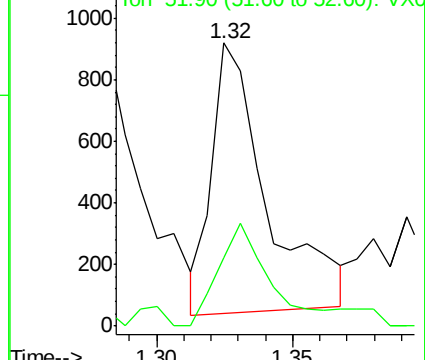
50 100

52 29.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003109.D

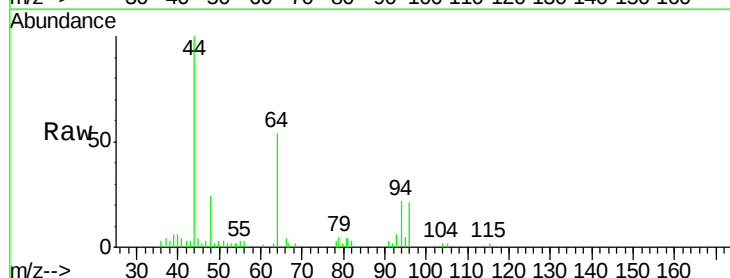
Acq: 01 Jul 2018 06:26

Tgt Ion: 94 Resp: 1954

Ion Ratio Lower Upper

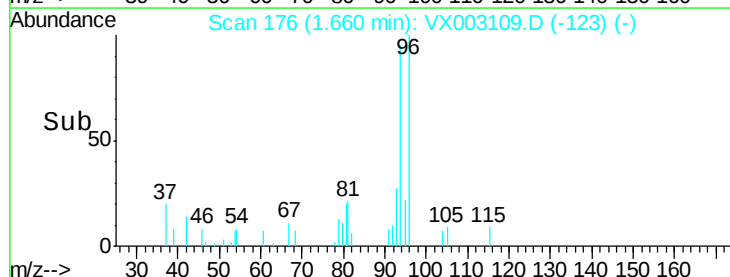
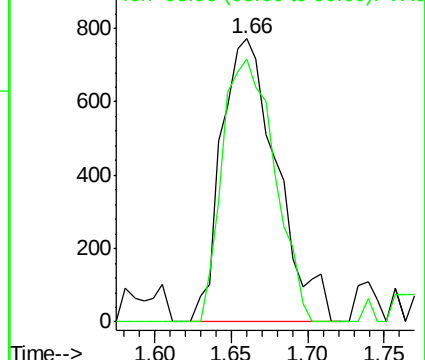
94 100

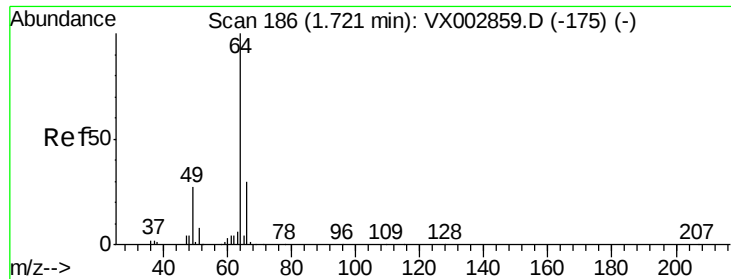
96 93.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

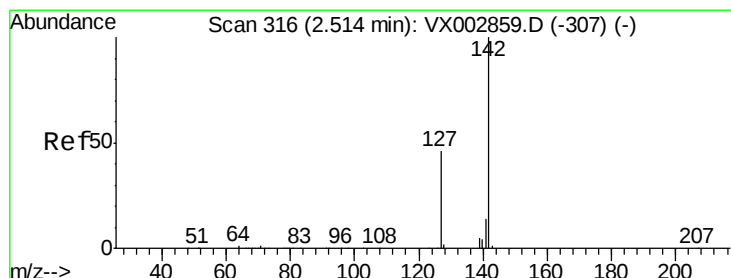
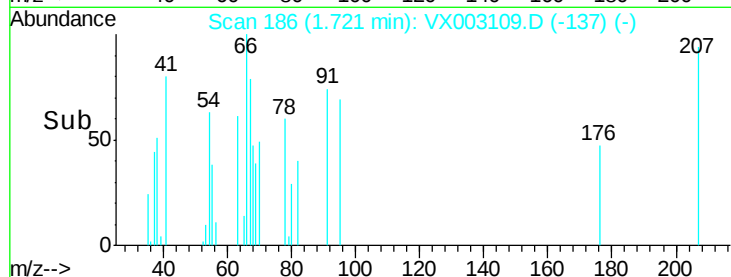
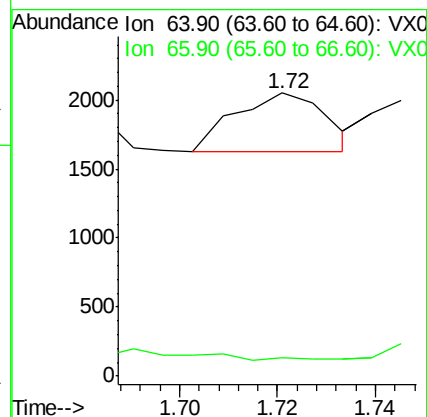
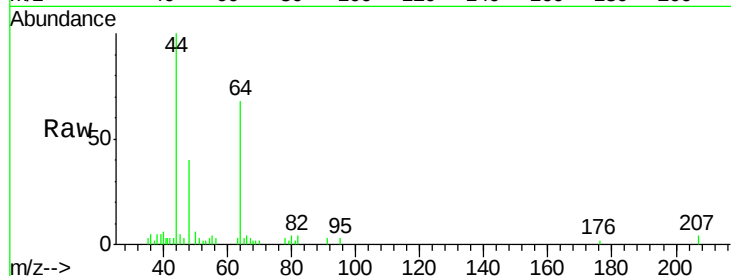
MW-19

Tot Ion: 64 Resp: 542

Ion Ratio Lower Upper

64 100

66 1.9 25.5 38.3#



#10

Methyl Iodide

Concen: 6.84 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

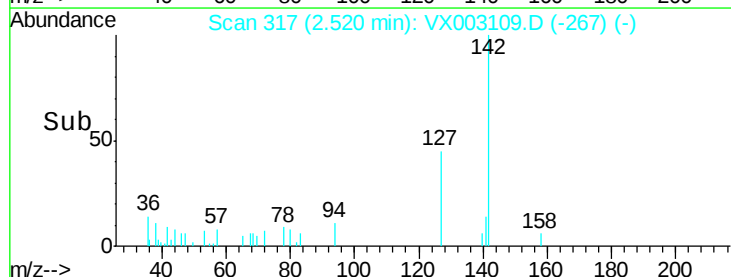
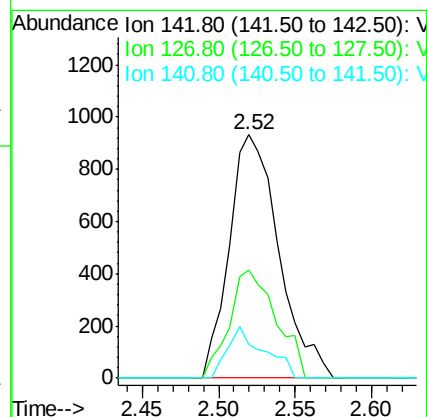
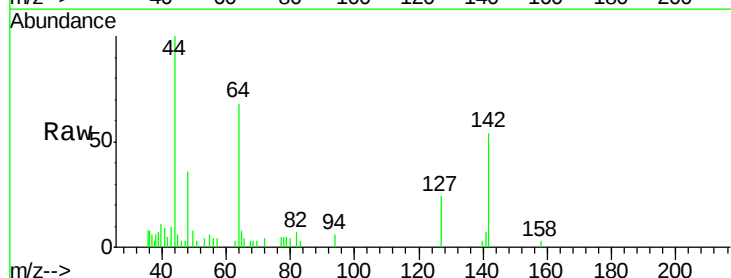
Tgt Ion:142 Resp: 2101

Ion Ratio Lower Upper

142 100

127 41.9 36.6 55.0

141 15.5 11.3 16.9

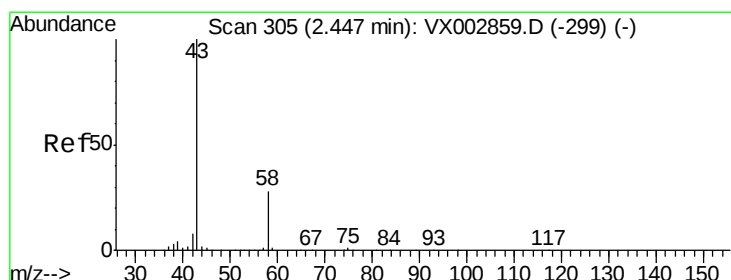
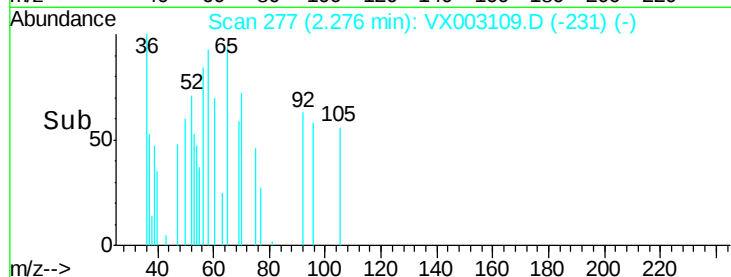
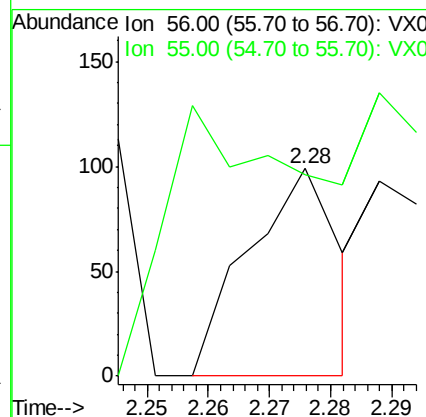
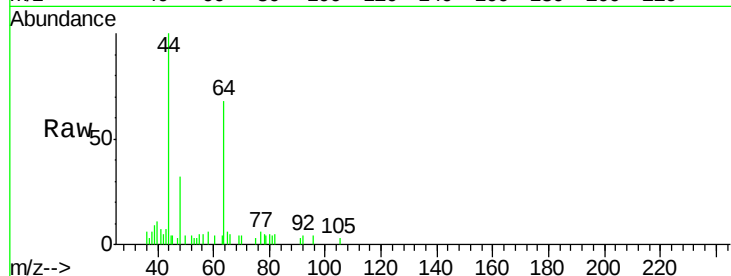




#13
Acrolein
Concen: 4.48 ug/l
RT: 2.28 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

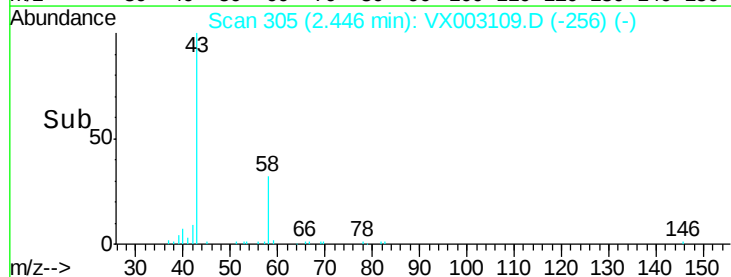
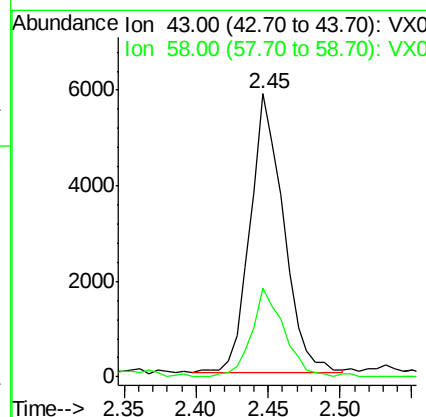
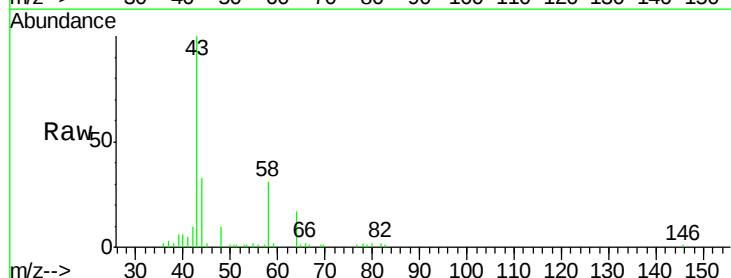
Instrument :
MSVOA_X
ClientSampled :
MW-19

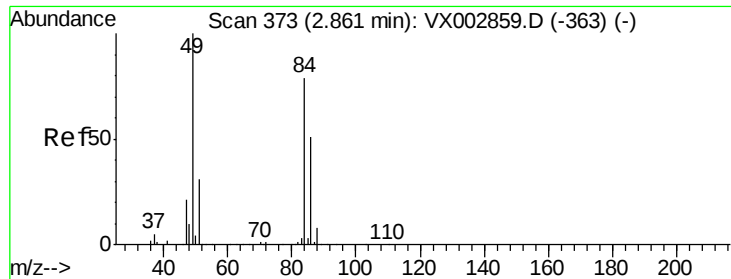
Tot Ion: 56 Resp: 102
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 6.12 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.00 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

Tgt Ion: 43 Resp: 9327
Ion Ratio Lower Upper
43 100
58 31.8 22.1 33.1





#20

Methylene Chloride

Concen: 0.37 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

MW-19

Tot Ion: 84 Resp: 1112

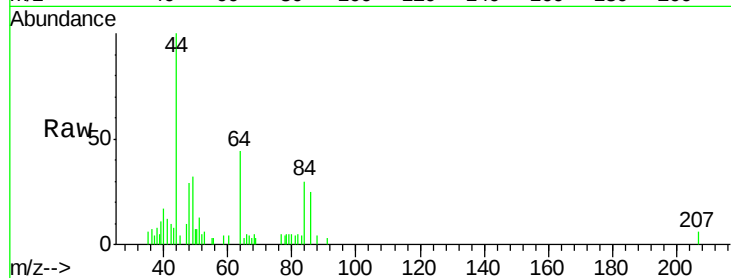
Ion Ratio Lower Upper

84 100

49 107.6 107.8 161.6#

51 43.7 32.8 49.2

86 83.1 52.5 78.7#

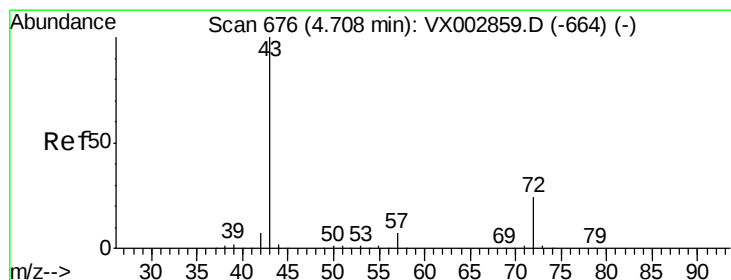
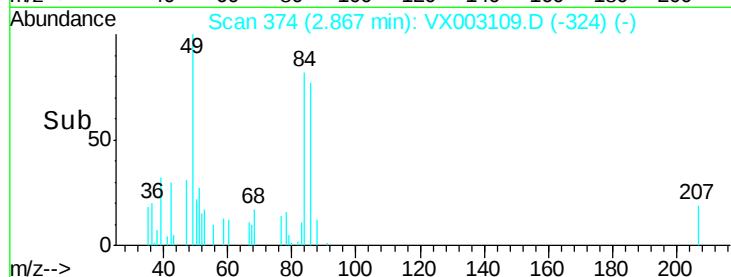
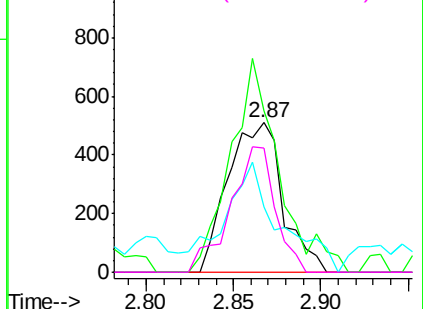


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.31 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX003109.D

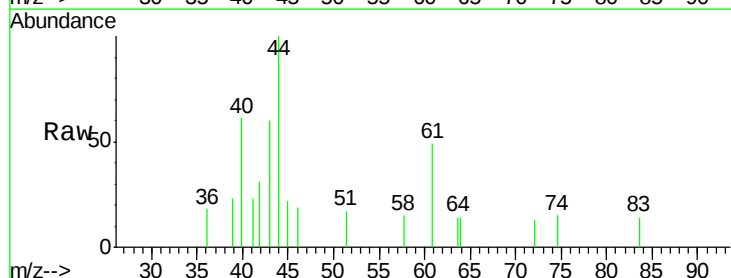
Acq: 01 Jul 2018 06:26

Tgt Ion: 43 Resp: 713

Ion Ratio Lower Upper

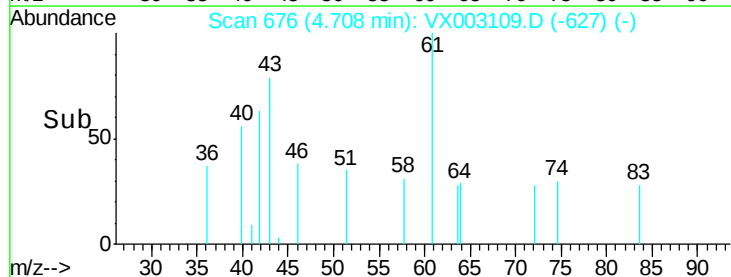
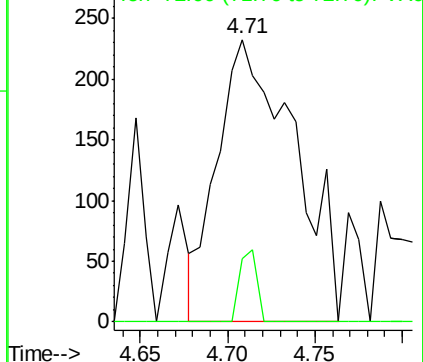
43 100

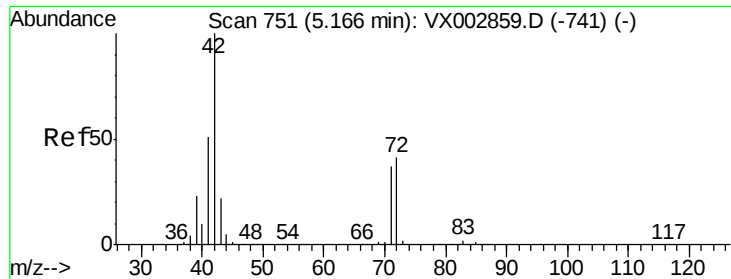
72 22.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

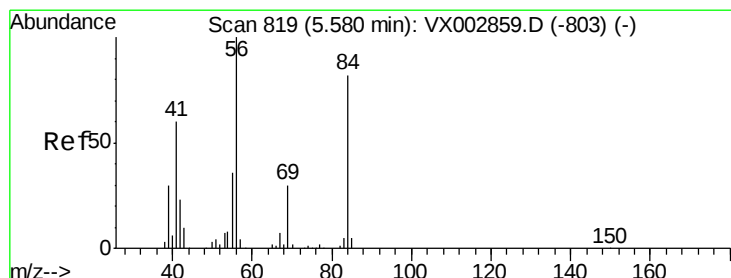
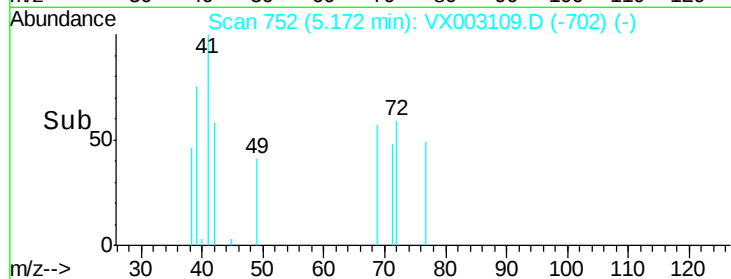
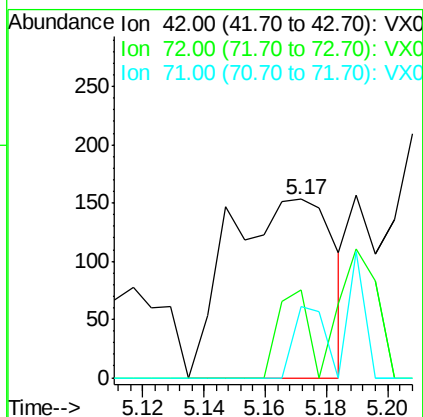
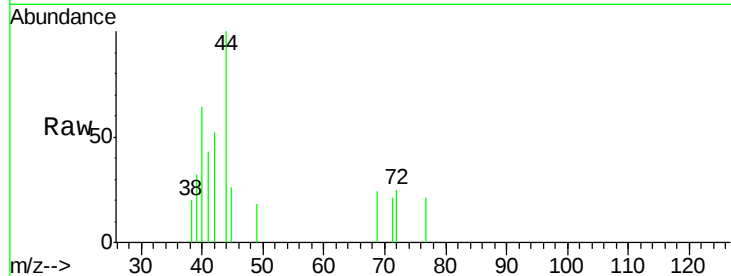




#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

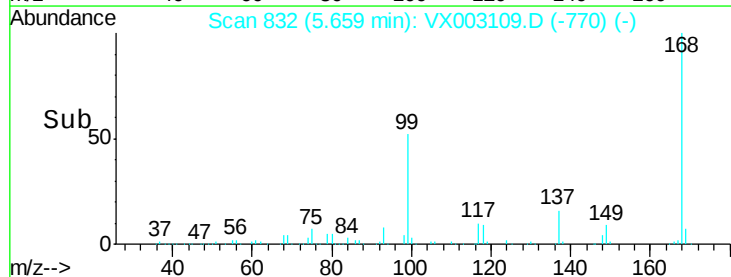
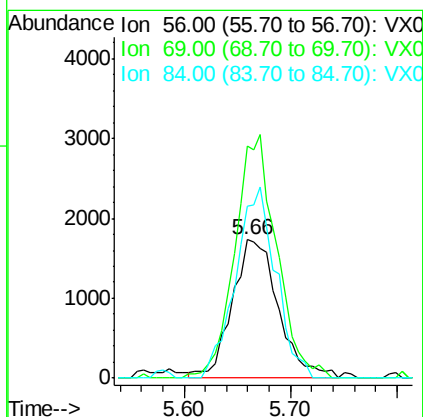
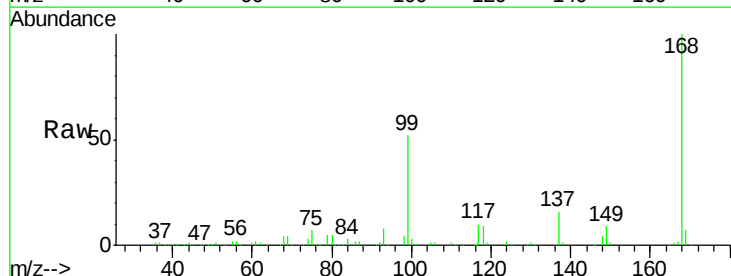
Instrument :
MSVOA_X
ClientSampled :
MW-19

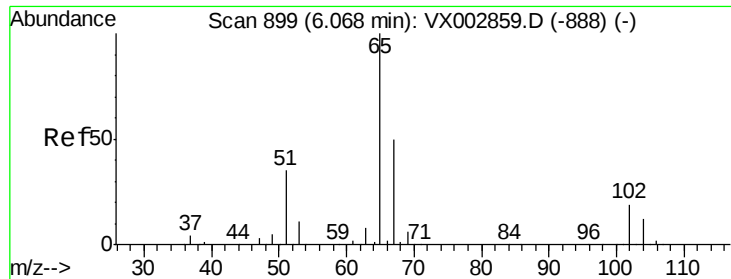
Tot Ion: 42 Resp: 365
Ion Ratio Lower Upper
42 100
72 14.0 32.0 48.0#
71 11.8 30.1 45.1#



#31
Cyclohexane
Concen: 1.14 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

Tgt Ion: 56 Resp: 5276
Ion Ratio Lower Upper
56 100
69 167.2 23.7 35.5#
84 123.9 64.1 96.1#

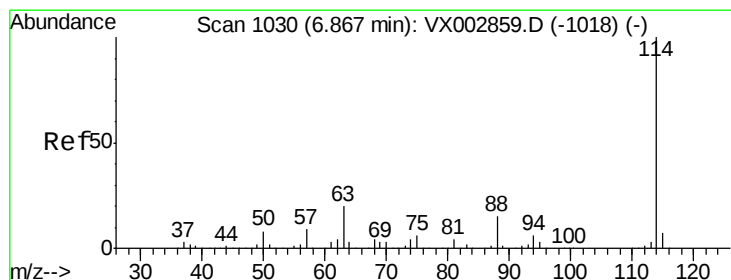
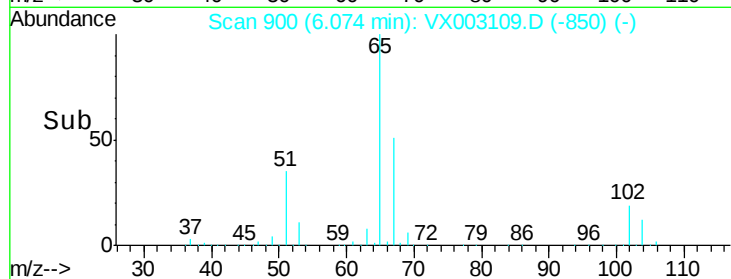
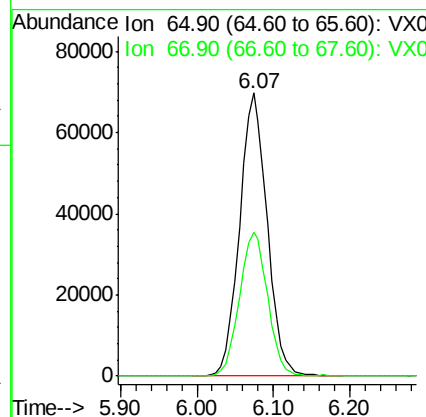
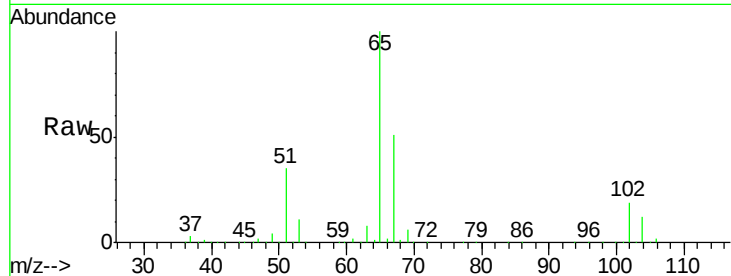




#33
 1,2-Dichloroethane-d4
 Concen: 47.15 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003109.D
 Acq: 01 Jul 2018 06:26

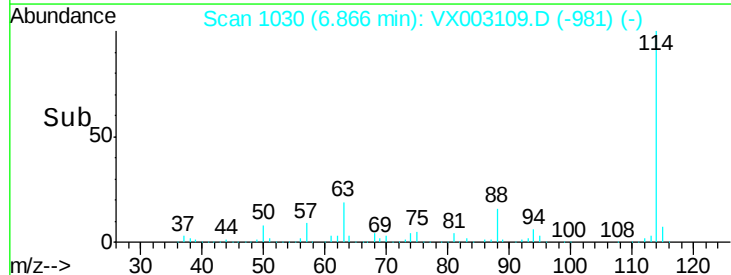
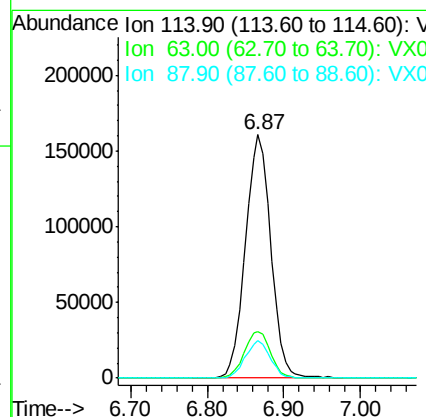
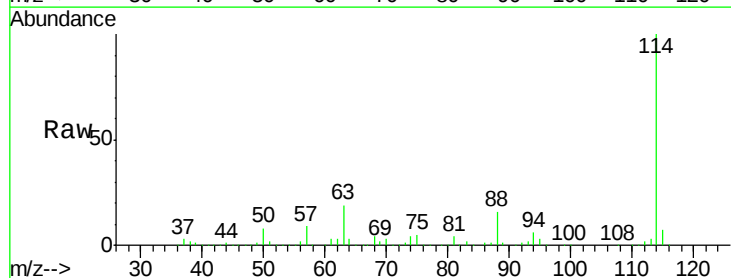
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19

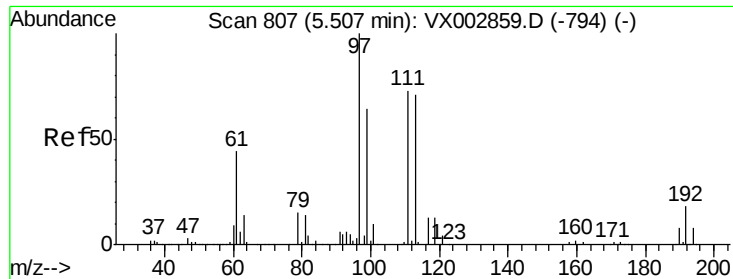
Tot Ion: 65 Resp: 173654
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003109.D
 Acq: 01 Jul 2018 06:26

Tgt Ion: 114 Resp: 370545
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 41.4
 88 15.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.35 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

MW-19

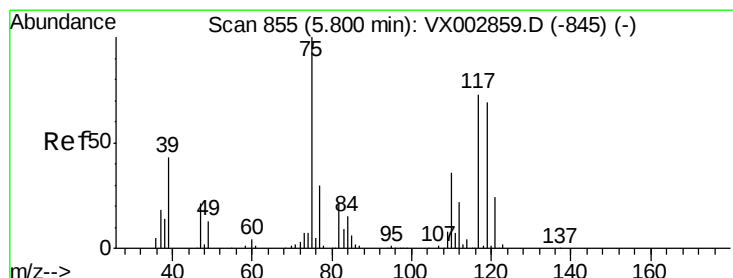
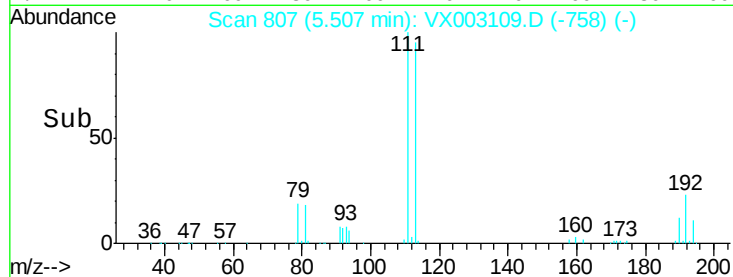
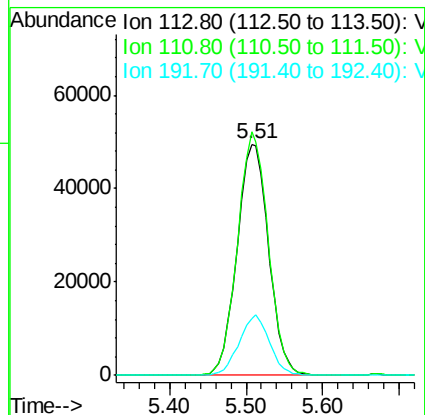
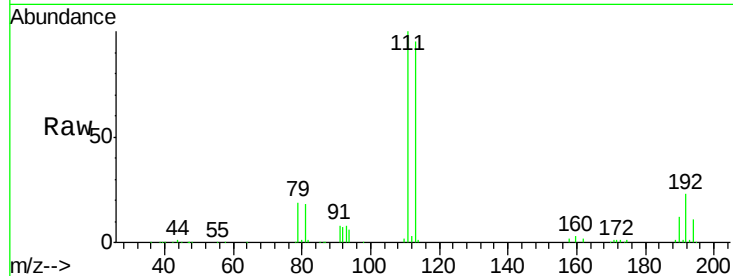
Tot Ion:113 Resp: 141877

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

192 25.0 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.24 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

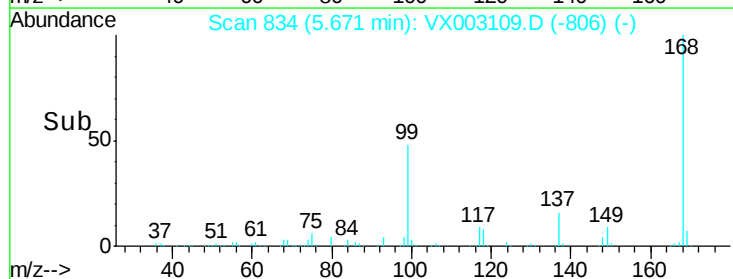
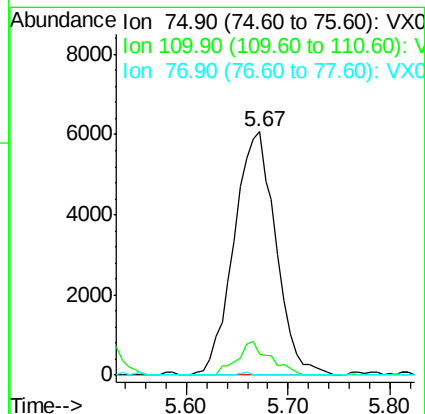
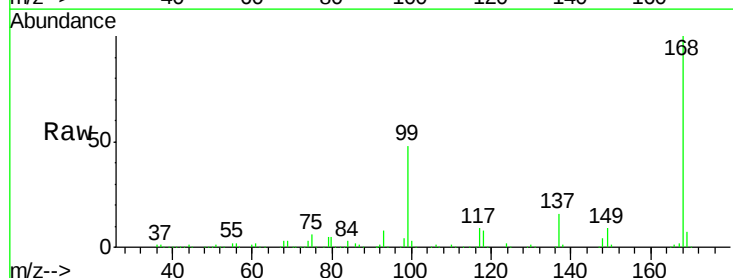
Tgt Ion: 75 Resp: 17228

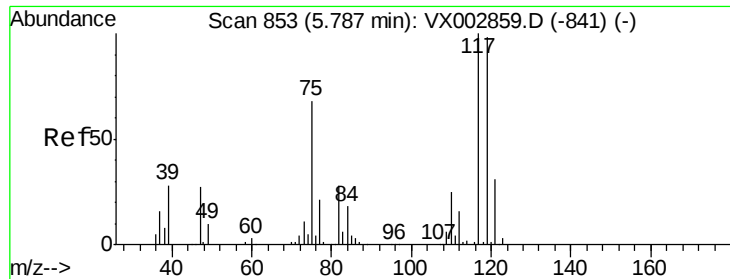
Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.4#

77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

MW-19

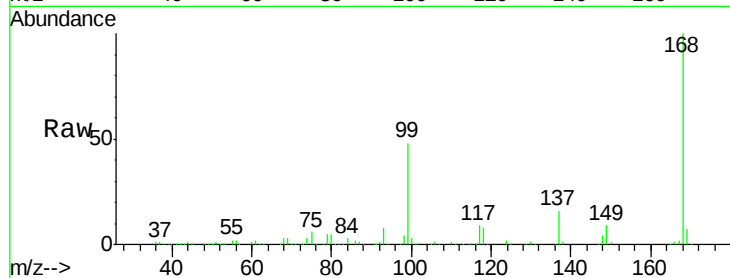
Tot Ion:117 Resp: 23431

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

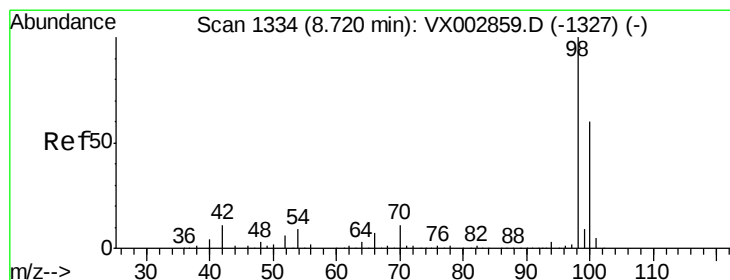
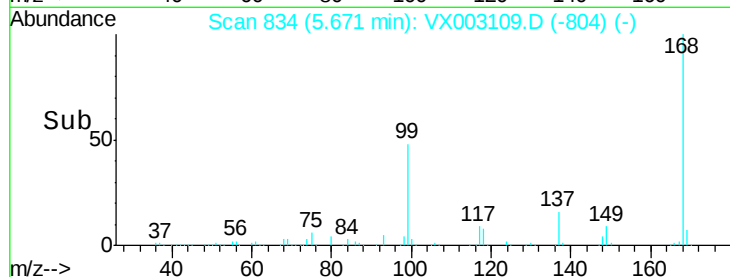
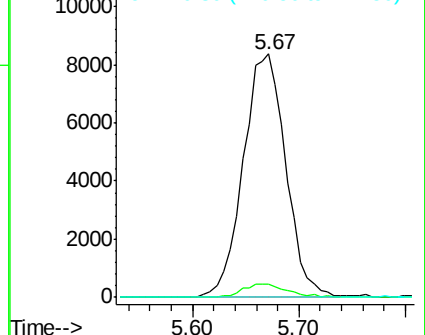
121 0.0 24.4 36.6#



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: 48.34 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003109.D

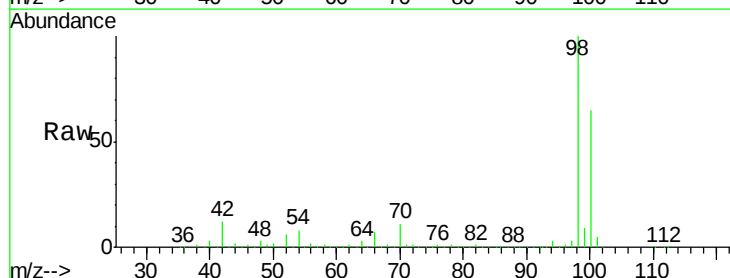
Acq: 01 Jul 2018 06:26

Tgt Ion: 98 Resp: 518029

Ion Ratio Lower Upper

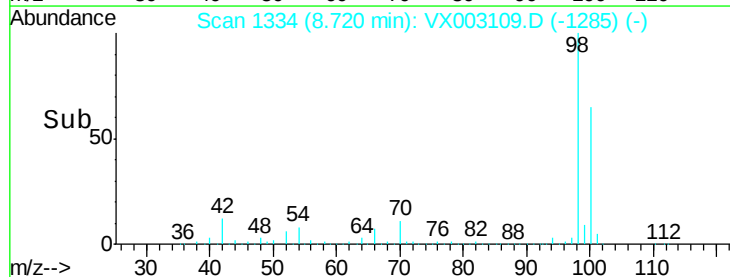
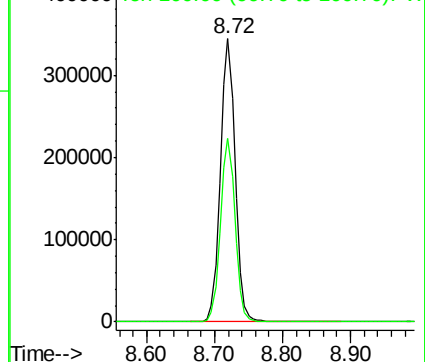
98 100

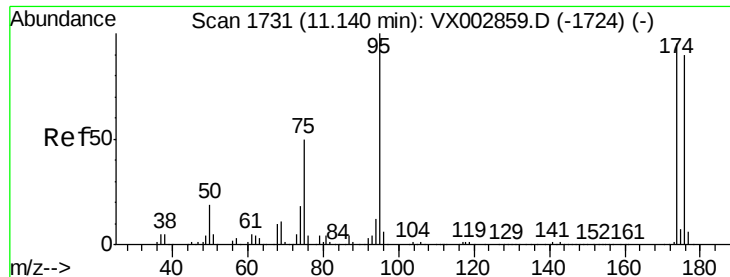
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

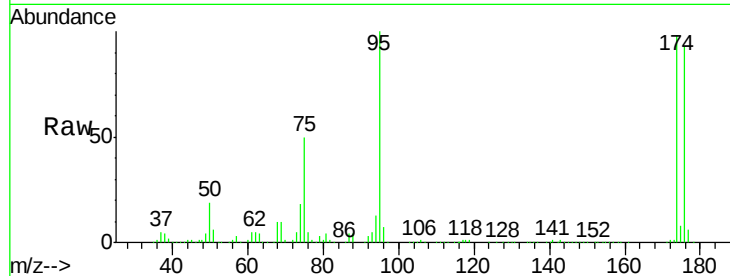




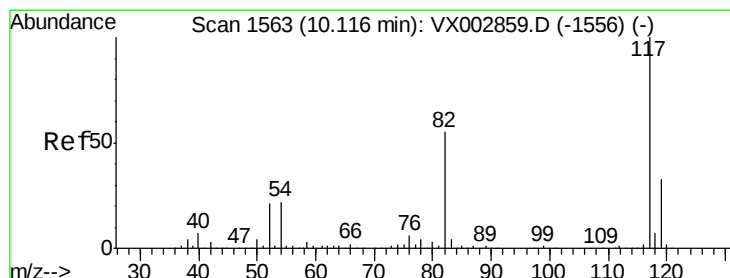
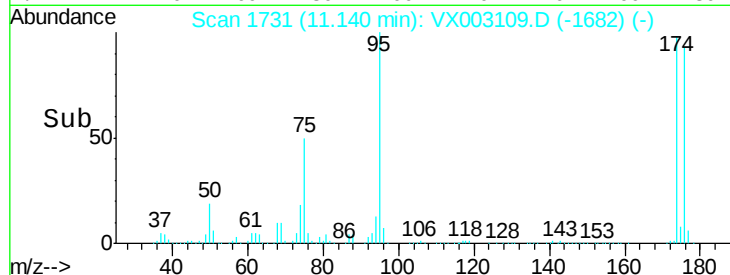
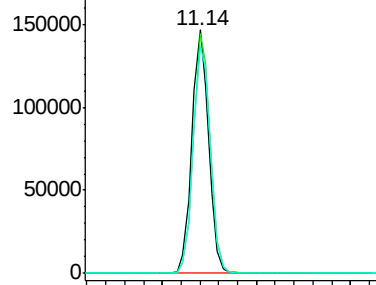
#62
4-Bromofluorobenzene
Concen: 43.75 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

Instrument :
MSVOA_X
ClientSampleId :
MW-19

Tot Ion: 95 Resp: 180804
Ion Ratio Lower Upper
95 100
174 98.7 0.0 187.4
176 95.9 0.0 181.0

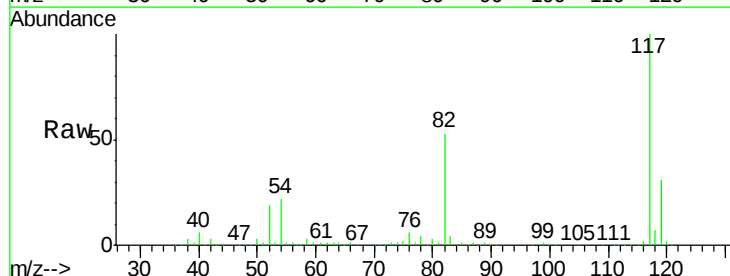


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

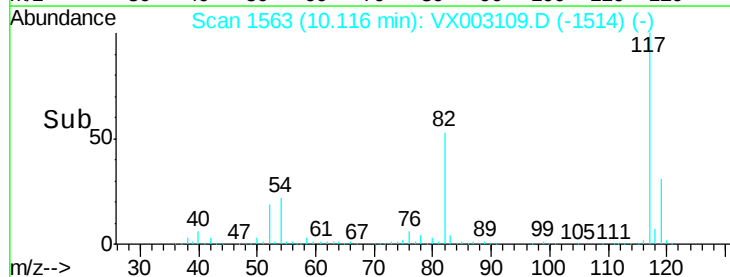
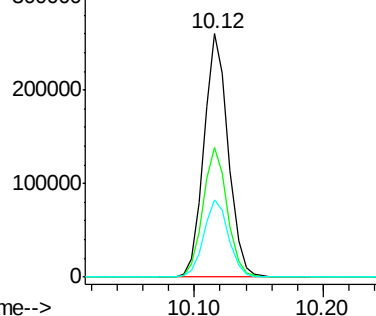


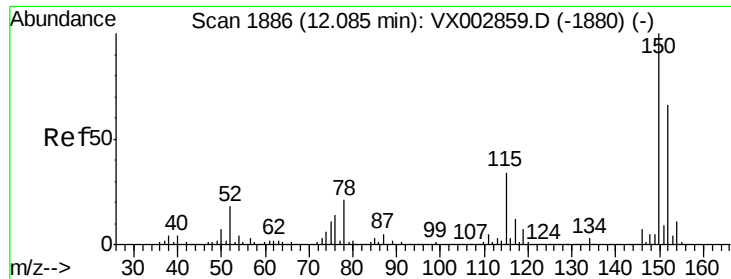
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003109.D
Acq: 01 Jul 2018 06:26

Tgt Ion: 117 Resp: 342769
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 31.5 25.8 38.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampled :

MW-19

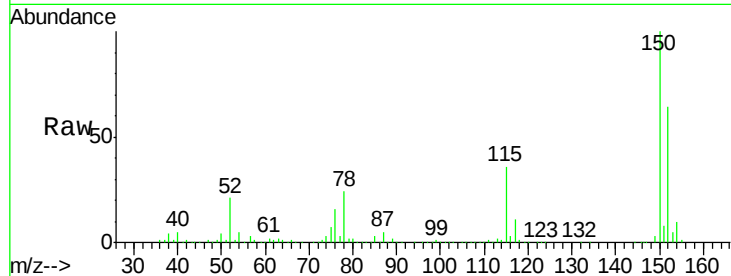
Tot Ion:152 Resp: 194690

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

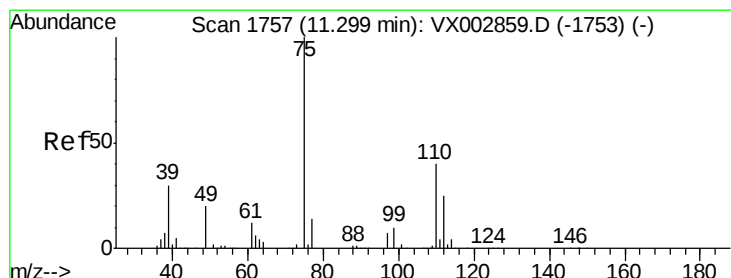
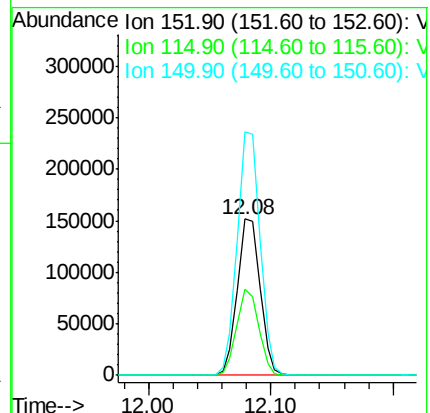
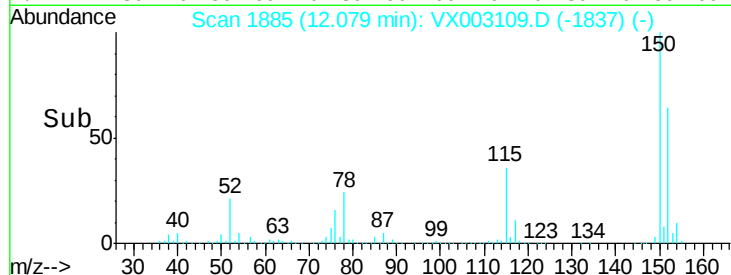
150 156.2 0.0 347.2



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: 25.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003109.D

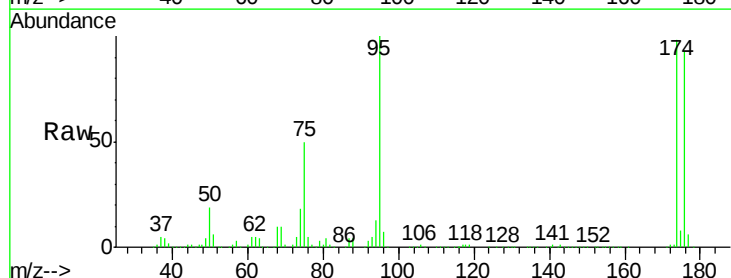
Acq: 01 Jul 2018 06:26

Tgt Ion: 75 Resp: 91599

Ion Ratio Lower Upper

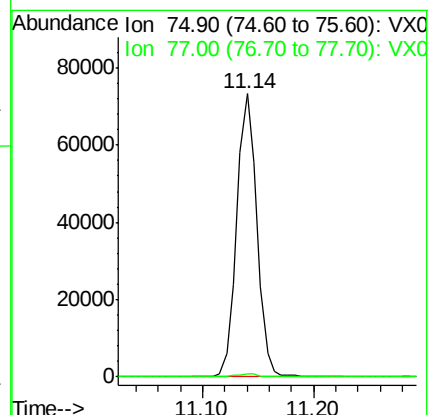
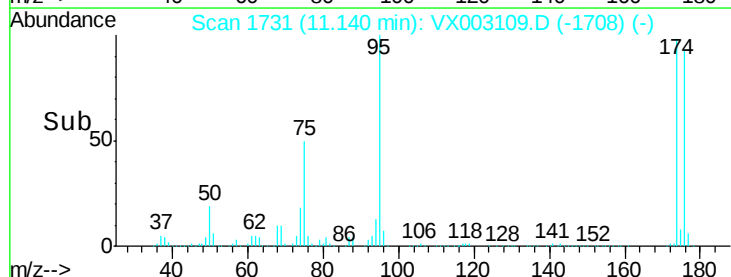
75 100

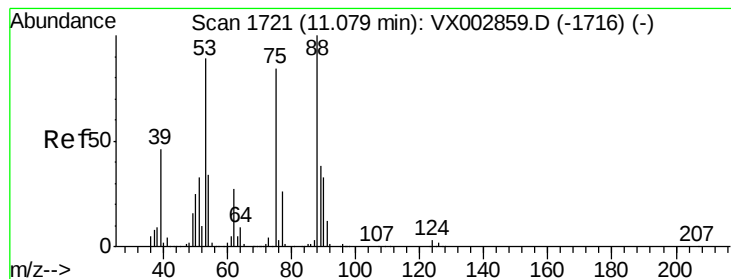
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003109.D

Acq: 01 Jul 2018 06:26

Instrument :

MSVOA_X

ClientSampleId :

MW-19

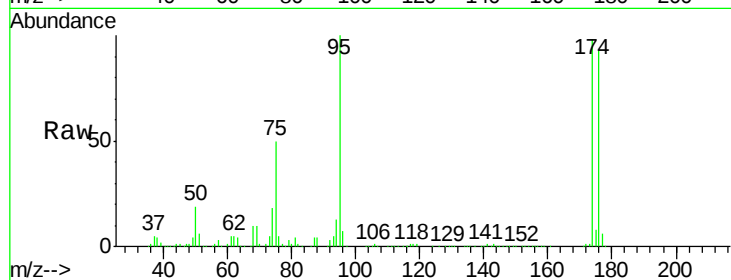
Tot Ion: 75 Resp: 91599

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

