

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003107.D
 Acq On : 01 Jul 2018 05:33
 Operator : JC/MD
 Sample : J3800-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14

Quant Time: Jul 02 04:58:15 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	273922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	385041	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	358606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204352	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	180561	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
35) Dibromofluoromethane	5.51	113	147560	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
50) Toluene-d8	8.72	98	534737	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.14	95	190338	44.32	ug/l	0.00
Spiked Amount			Recovery	=	88.64%	

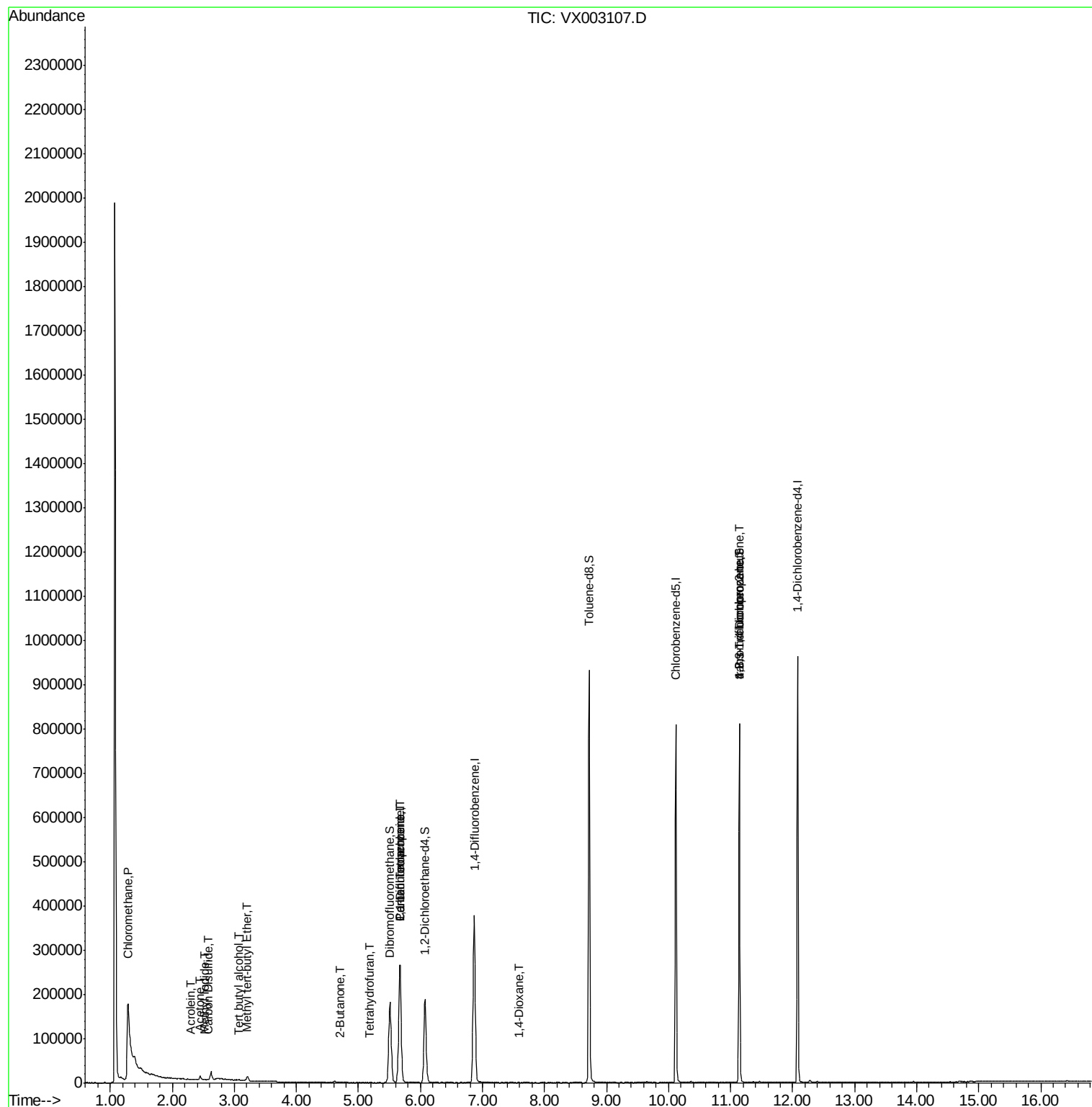
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	79	Below Cal	#	43
3) Chloromethane	1.28	50	10320	2.94	ug/l #	43
5) Bromomethane	1.65	94	1873	Below Cal		90
10) Methyl Iodide	2.51	142	2025	6.80	ug/l #	95
11) Tert butyl alcohol	3.07	59	1464	1.94	ug/l #	71
13) Acrolein	2.29	56	186	4.67	ug/l #	1
16) Acetone	2.45	43	8719	5.56	ug/l	94
17) Carbon Disulfide	2.57	76	2767	0.38	ug/l #	88
19) Methyl tert-butyl Ether	3.21	73	10979	1.13	ug/l #	89
25) 2-Butanone	4.71	43	1089	0.47	ug/l	99
29) Tetrahydrofuran	5.17	42	354	0.24	ug/l #	36
36) 1,1-Dichloropropene	5.67	75	17922	4.24	ug/l #	51
38) Carbon Tetrachloride	5.67	117	24914	5.38	ug/l #	15
49) 1,4-Dioxane	7.59	88	22	0.29	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	96634	26.11	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	96634	74.01	ug/l #	7

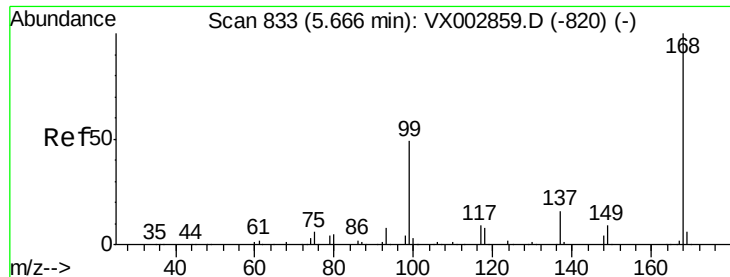
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

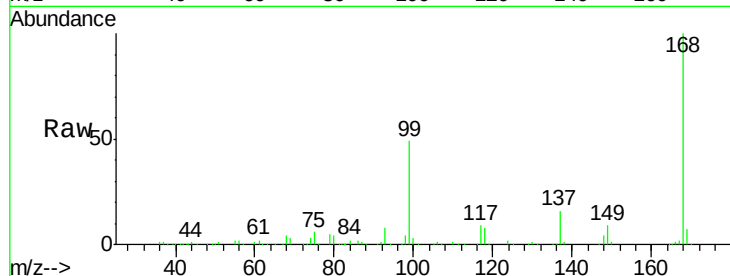
MW-14

Tot Ion:168 Resp: 273922

Ion Ratio Lower Upper

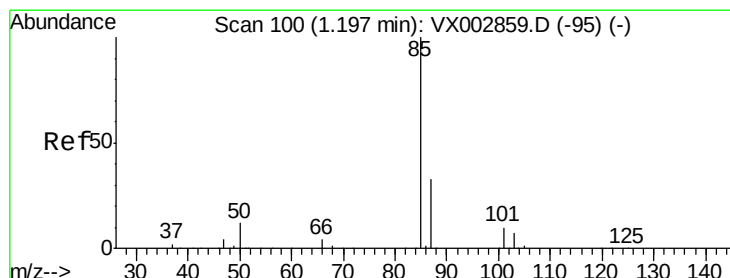
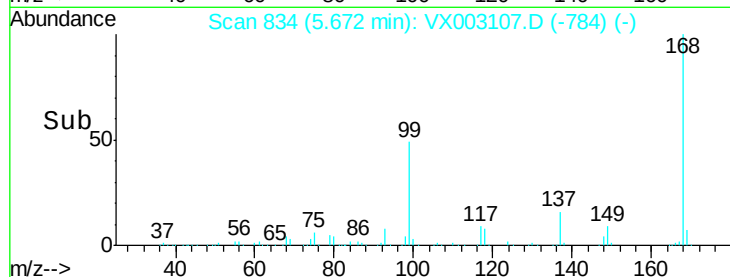
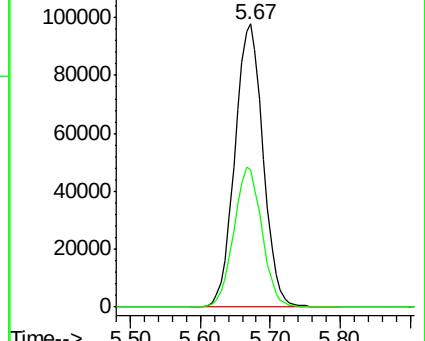
168 100

99 48.6 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: VX003107.D

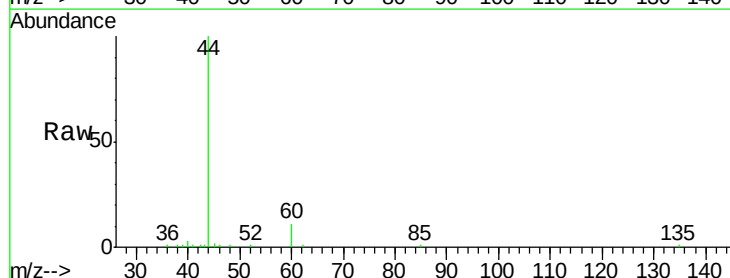
Acq: 01 Jul 2018 05:33

Tgt Ion: 85 Resp: 79

Ion Ratio Lower Upper

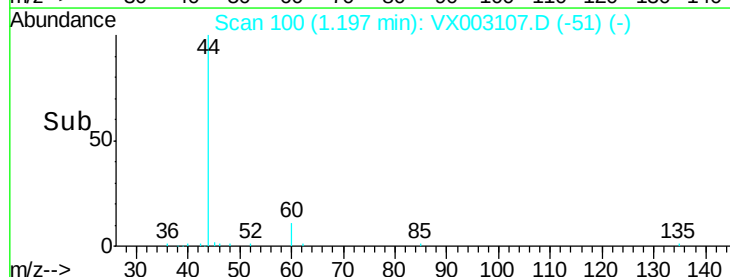
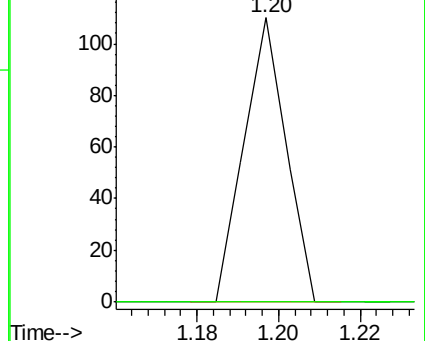
85 100

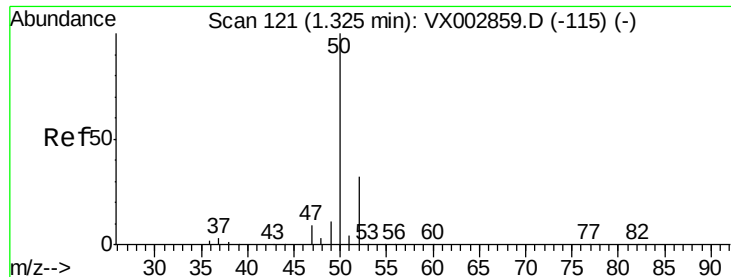
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 2.94 ua/l

RT: 1.28 min Scan# 114

Delta R.T. -0.04 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampleId :

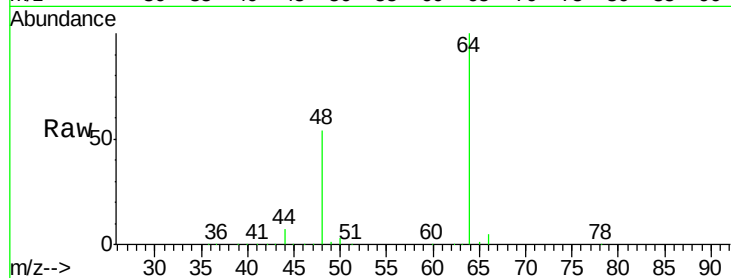
MW-14

Tot Ion: 50 Resp: 10320

Ion Ratio Lower Upper

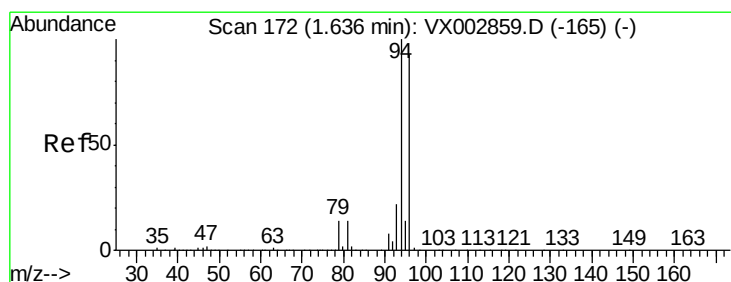
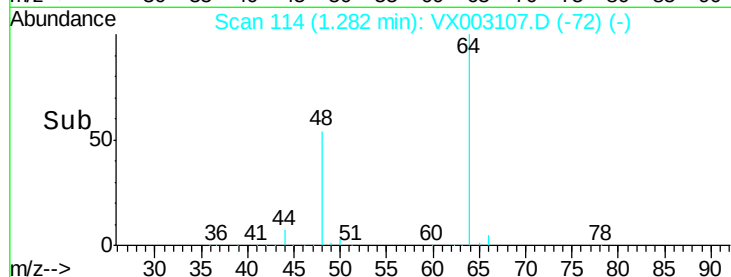
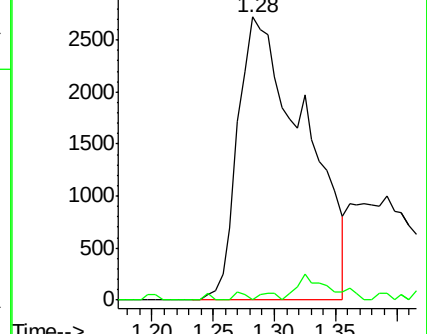
50 100

52 0.0 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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003107.D

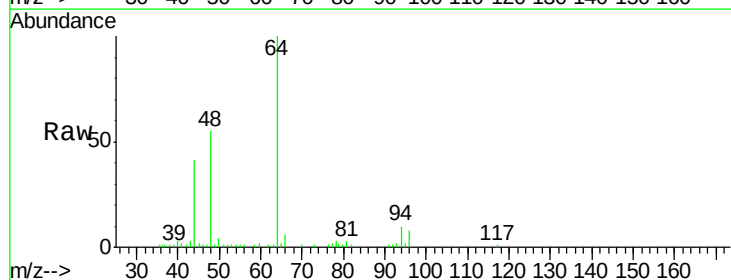
Acq: 01 Jul 2018 05:33

Tgt Ion: 94 Resp: 1873

Ion Ratio Lower Upper

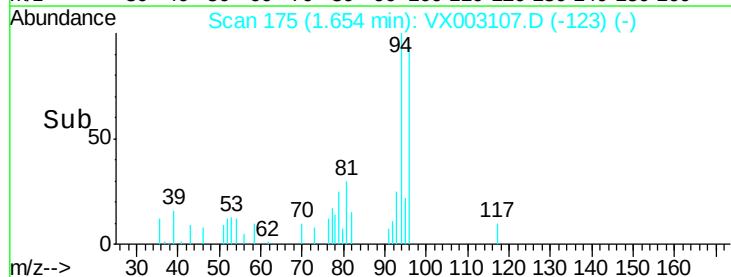
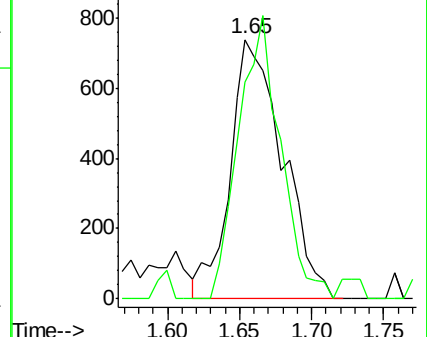
94 100

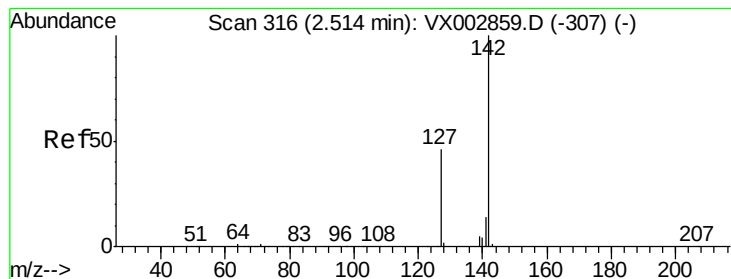
96 83.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methvl Iodide

Concen: 6.80 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

MW-14

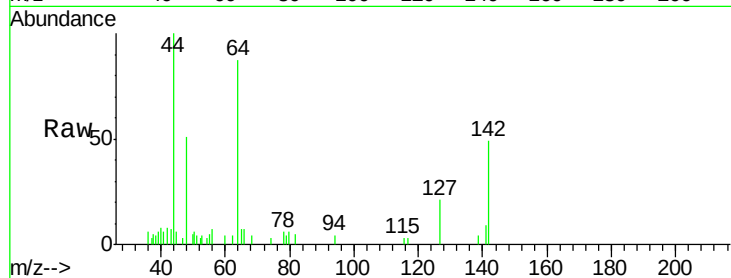
Tot Ion:142 Resp: 2025

Ion Ratio Lower Upper

142 100

127 48.2 36.6 55.0

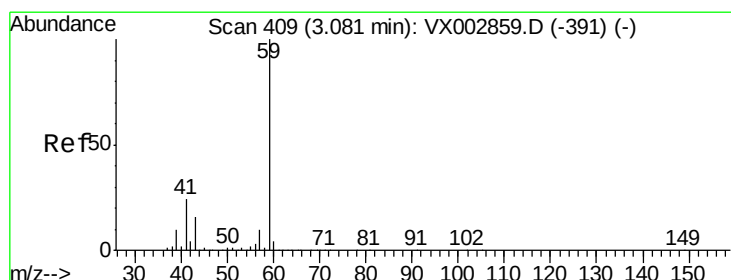
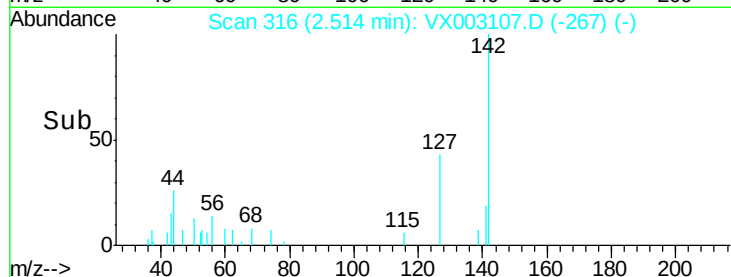
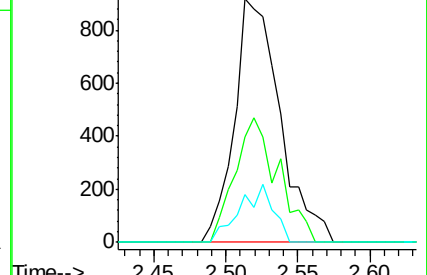
141 17.4 11.3 16.9#



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: 1.94 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX003107.D

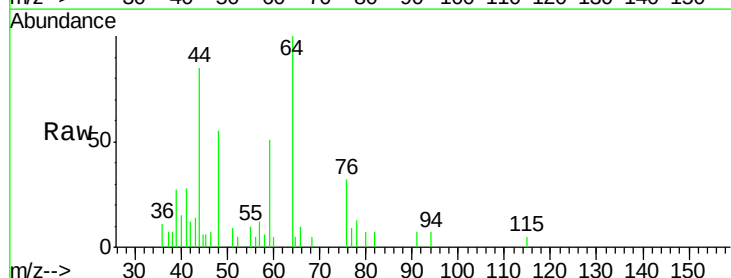
Acq: 01 Jul 2018 05:33

Tgt Ion: 59 Resp: 1464

Ion Ratio Lower Upper

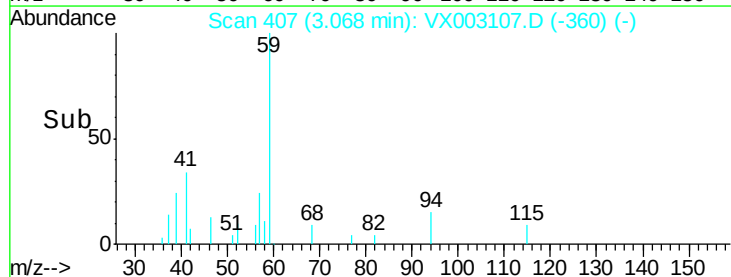
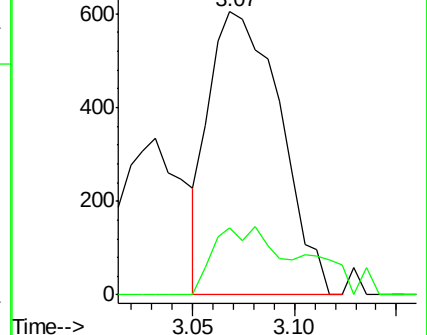
59 100

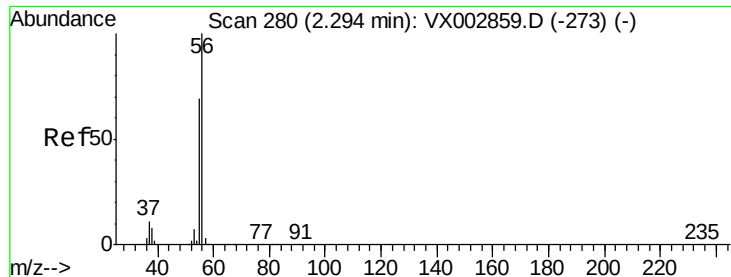
57 21.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.67 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampleId :

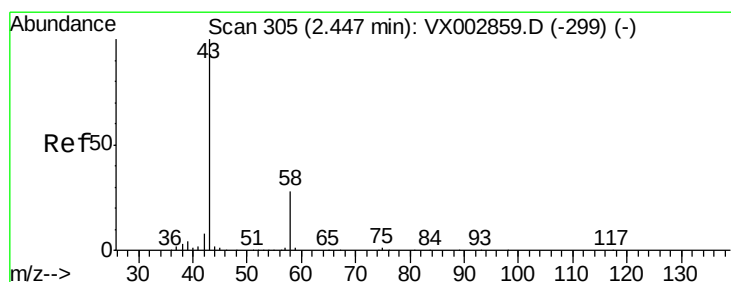
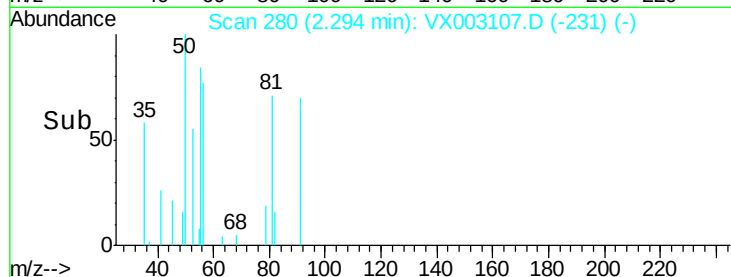
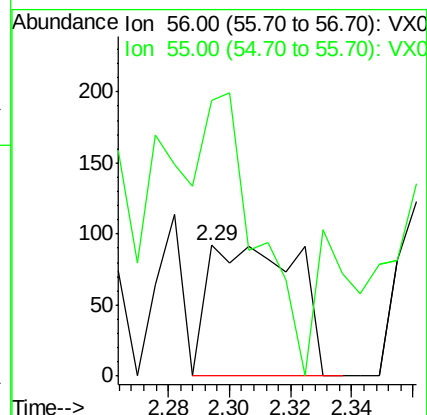
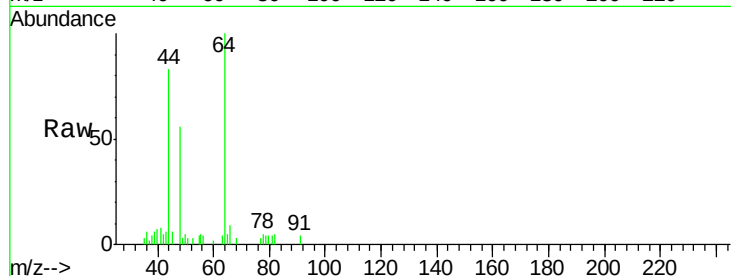
MW-14

Tot Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 215.6 57.0 85.4#



#16

Acetone

Concen: 5.56 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003107.D

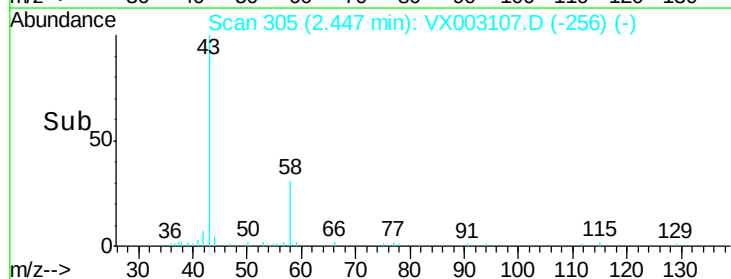
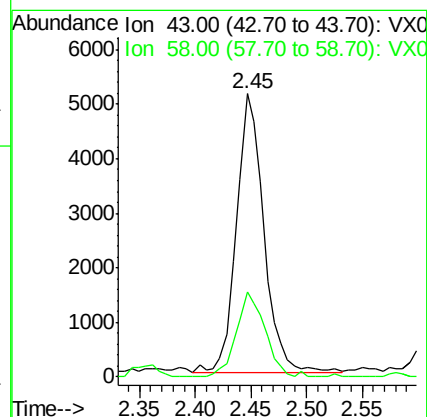
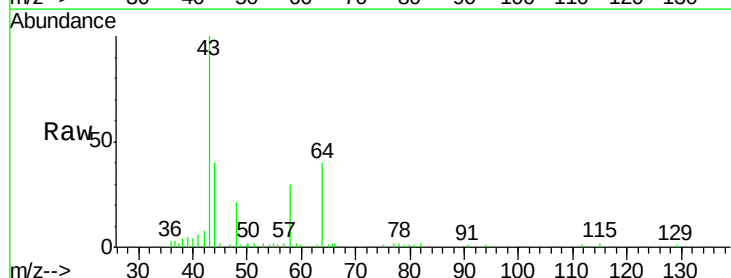
Acq: 01 Jul 2018 05:33

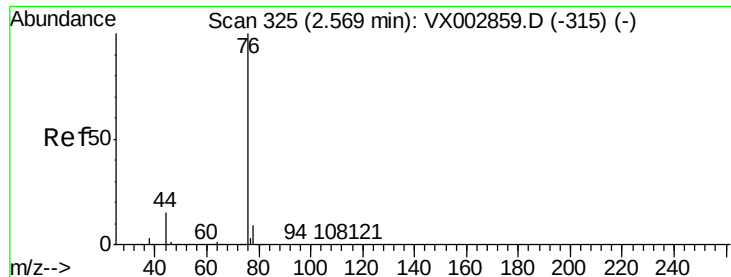
Tgt Ion: 43 Resp: 8719

Ion Ratio Lower Upper

43 100

58 30.6 22.1 33.1





#17

Carbon Disulfide

Concen: 0.38 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

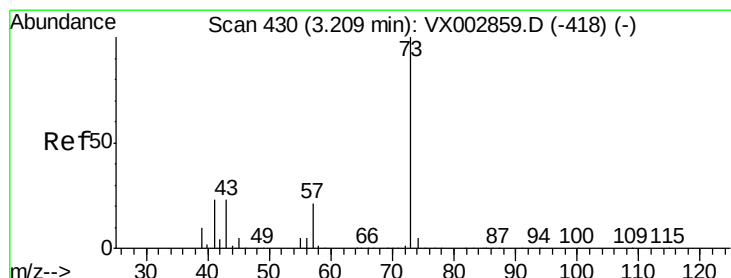
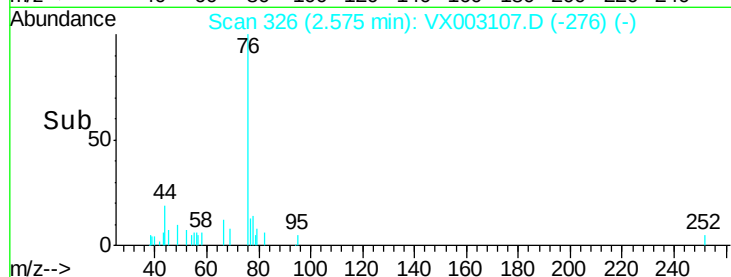
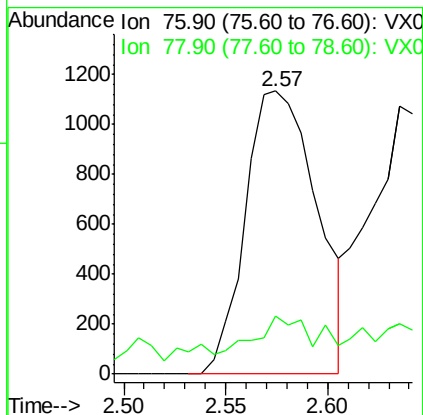
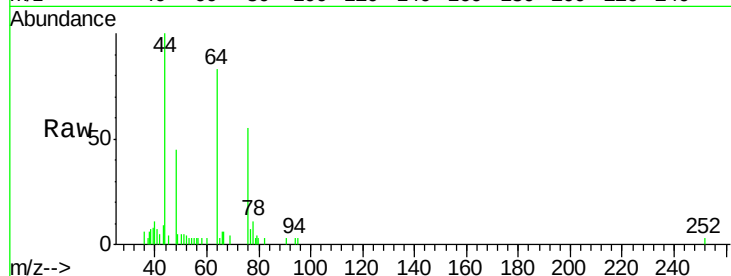
MW-14

Tot Ion: 76 Resp: 2767

Ion Ratio Lower Upper

76 100

78 12.9 6.9 10.3#



#19

Methyl tert-butyl Ether

Concen: 1.13 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.01 min

Lab File: VX003107.D

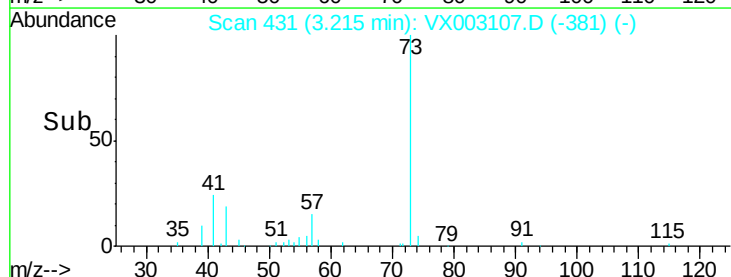
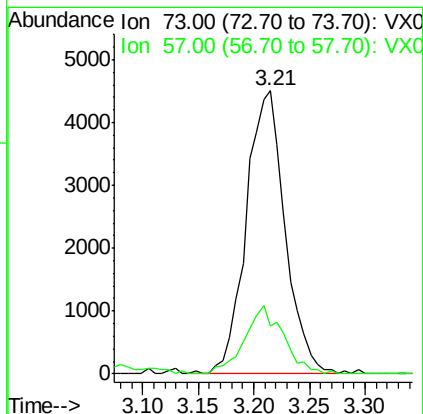
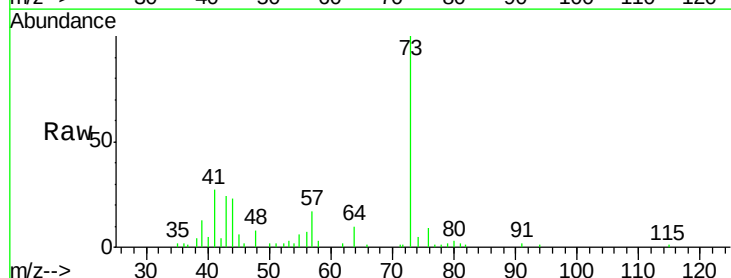
Acq: 01 Jul 2018 05:33

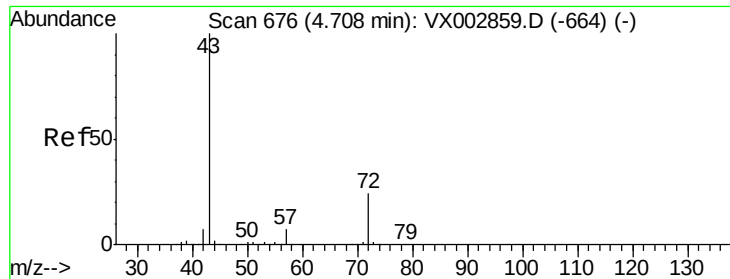
Tgt Ion: 73 Resp: 10979

Ion Ratio Lower Upper

73 100

57 16.8 17.7 26.5#





#25

2-Butanone

Concen: 0.47 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampleId :

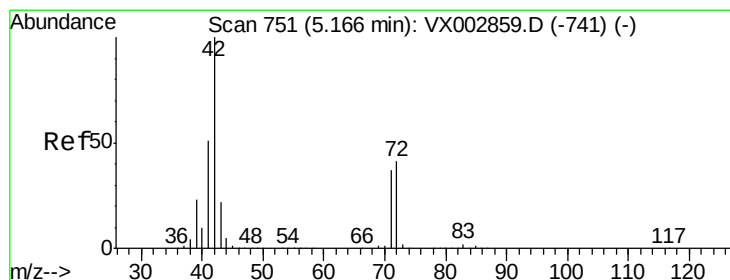
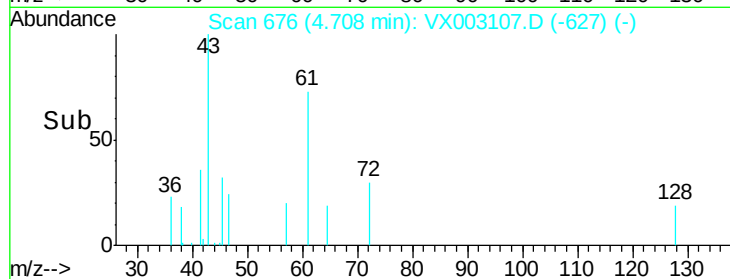
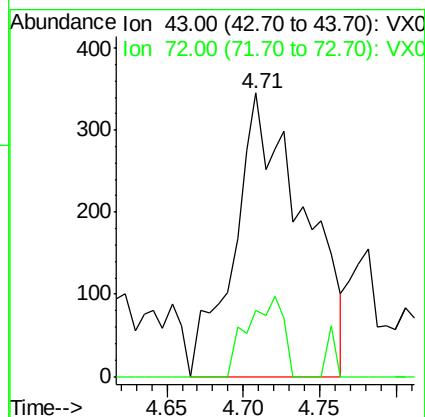
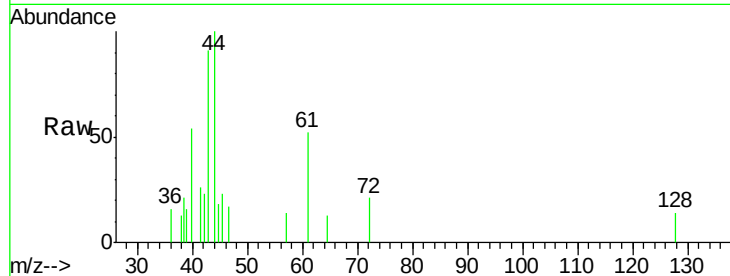
MW-14

Tot Ion: 43 Resp: 1089

Ion Ratio Lower Upper

43 100

72 23.5 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

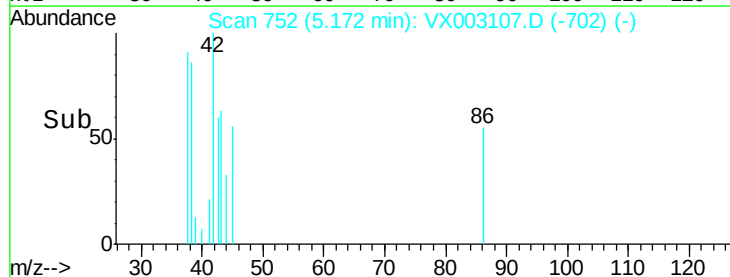
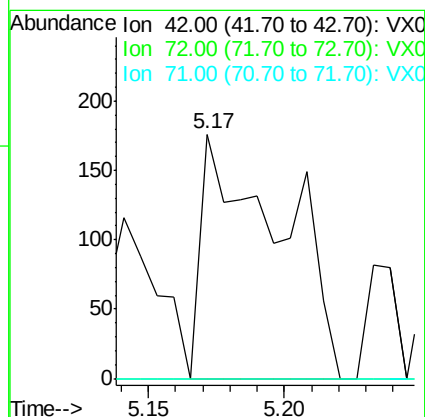
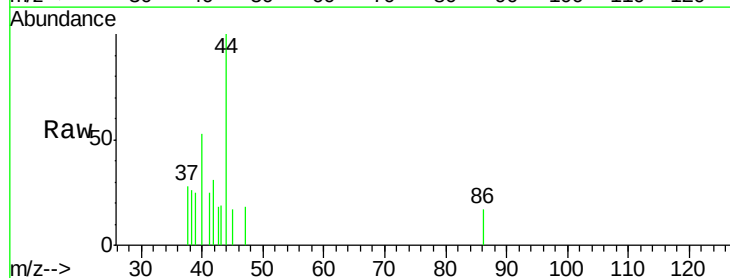
Tgt Ion: 42 Resp: 354

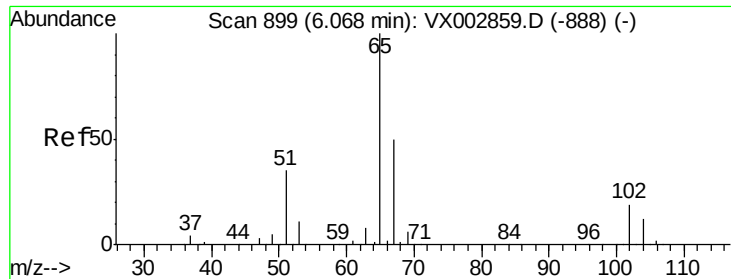
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 0.0 30.1 45.1#

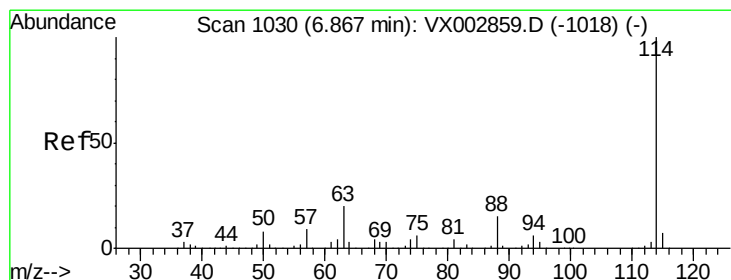
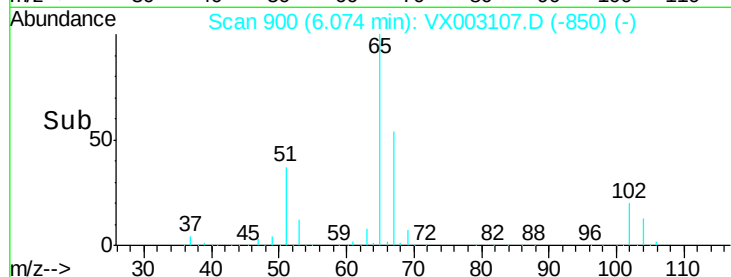
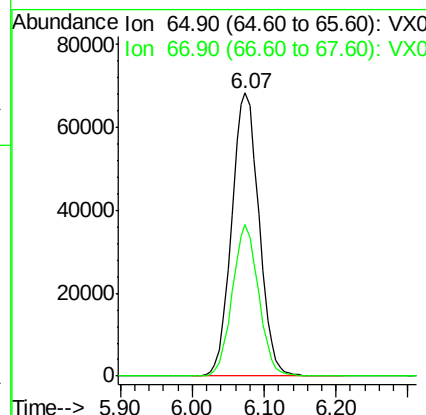
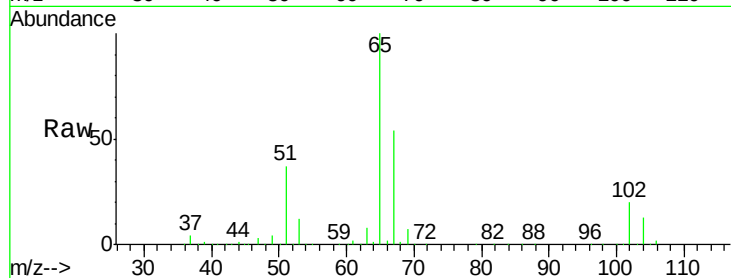




#33
 1,2-Dichloroethane-d4
 Concen: 47.69 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003107.D
 Acq: 01 Jul 2018 05:33

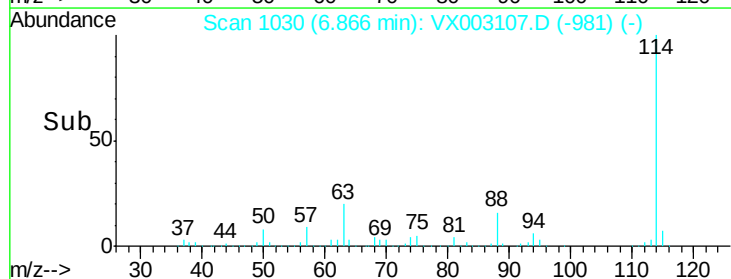
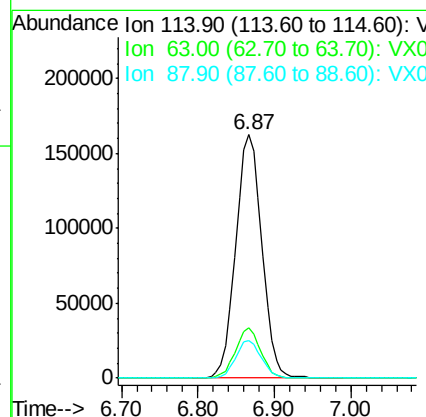
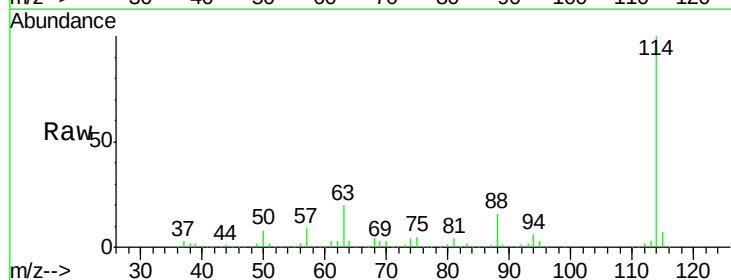
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14

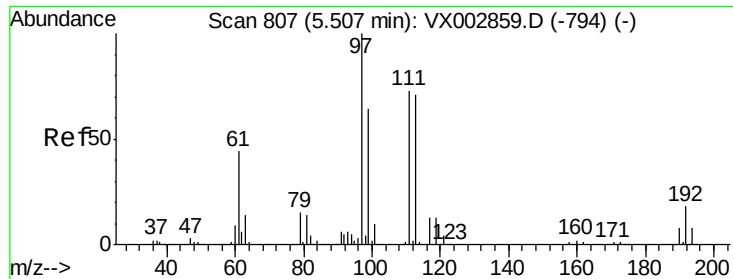
Tot Ion: 65 Resp: 180561
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003107.D
 Acq: 01 Jul 2018 05:33

Tgt Ion: 114 Resp: 385041
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 15.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.39 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampleId :

MW-14

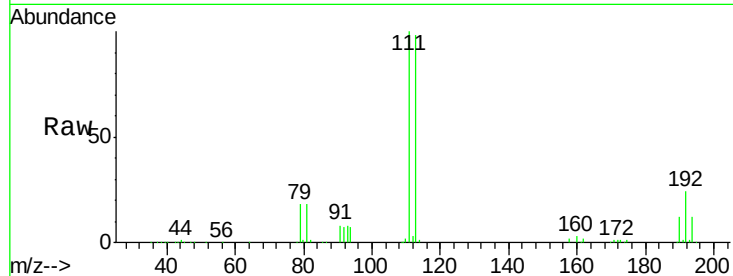
Tot Ion:113 Resp: 147560

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

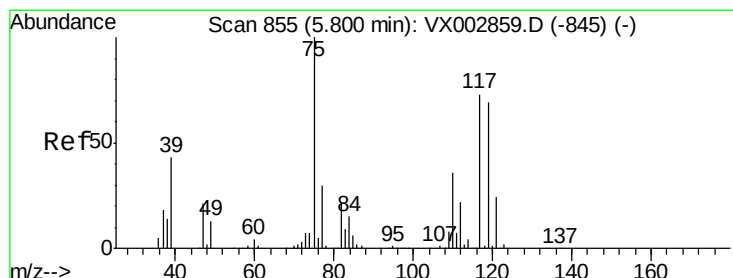
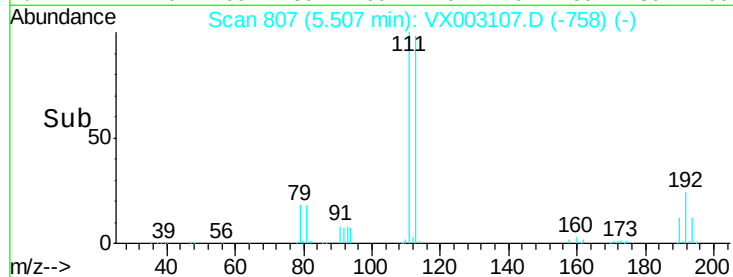
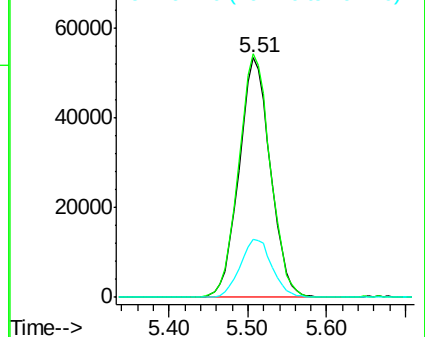
192 24.5 19.1 28.7



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: 4.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

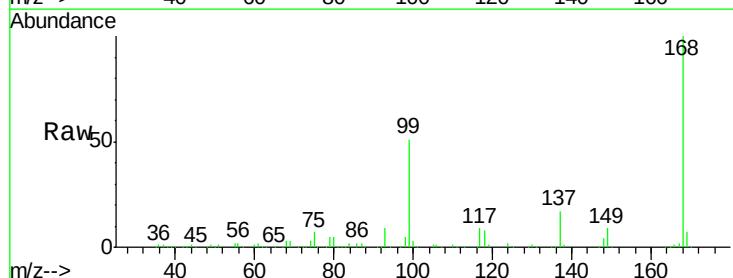
Tgt Ion: 75 Resp: 17922

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.4#

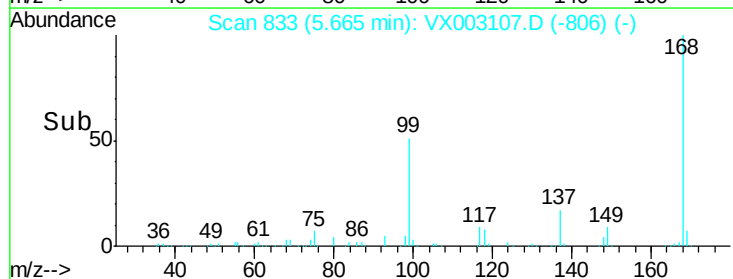
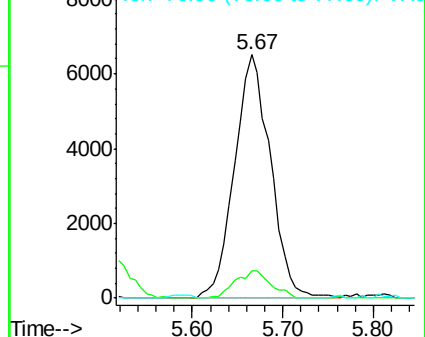
77 0.0 24.3 36.5#

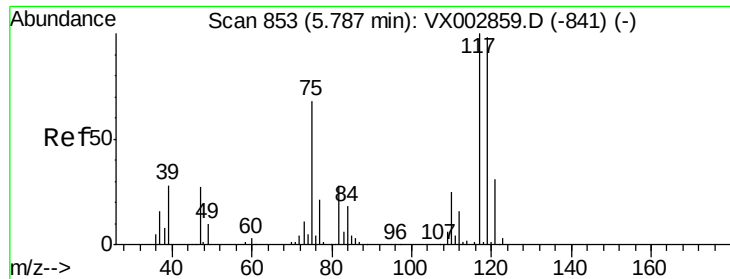


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.38 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

MW-14

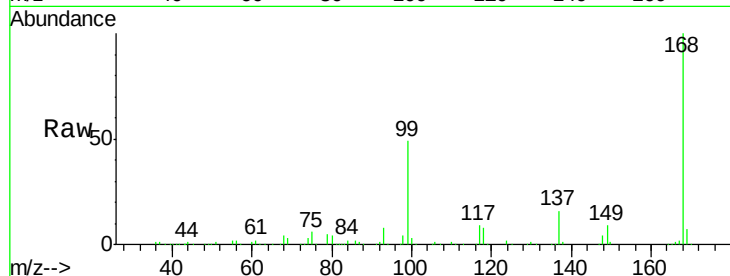
Tot Ion:117 Resp: 24914

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

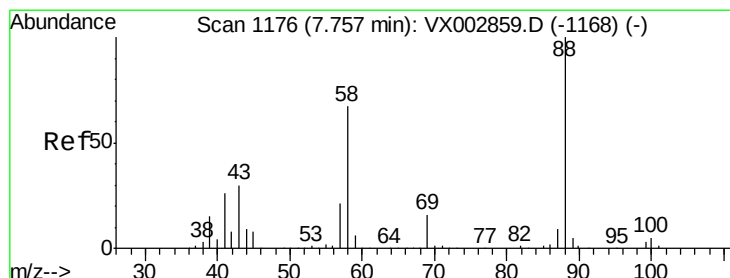
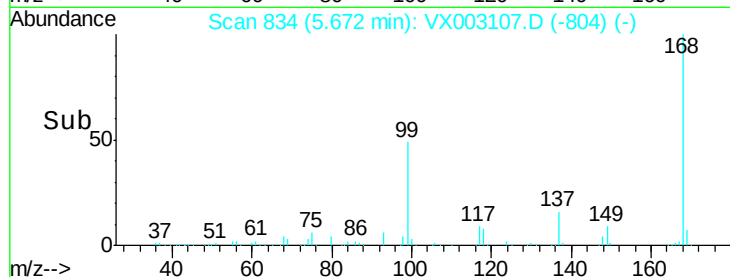
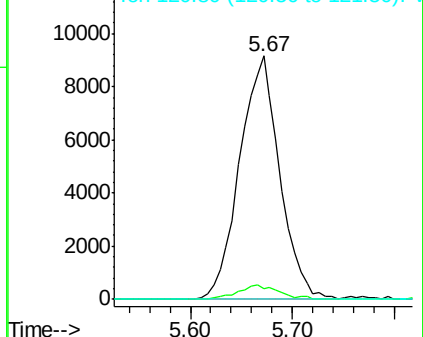
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.29 ug/l

RT: 7.59 min Scan# 1148

Delta R.T. -0.17 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

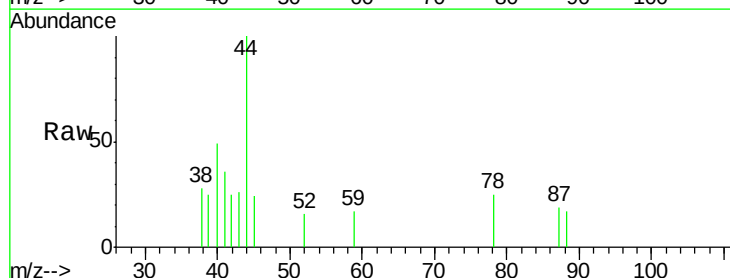
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 2122.7 29.8 44.6#

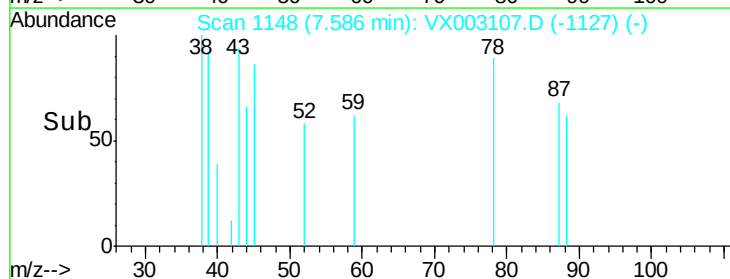
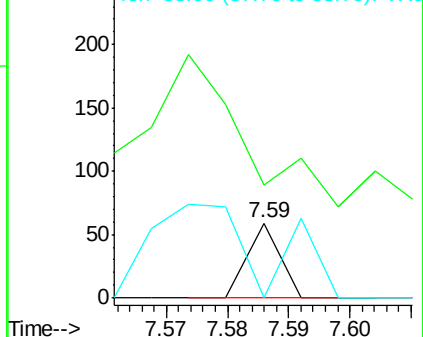
58 440.9 57.1 85.7#

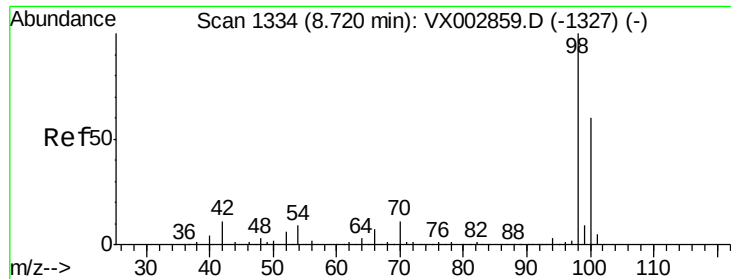


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

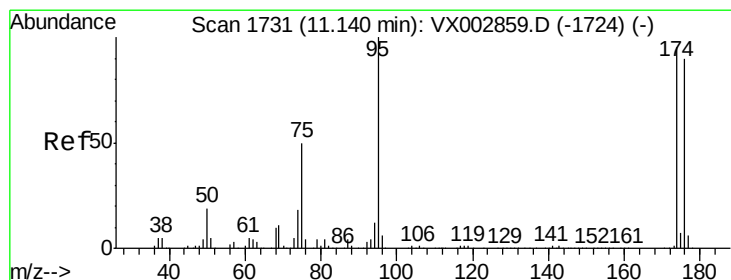
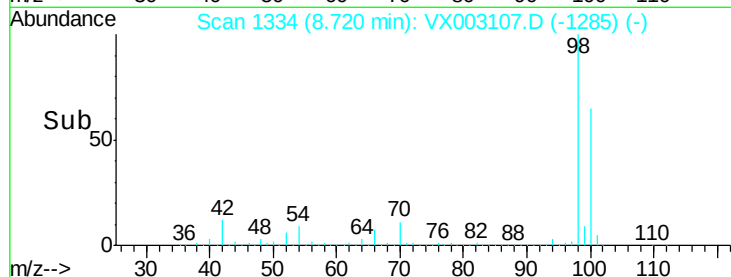
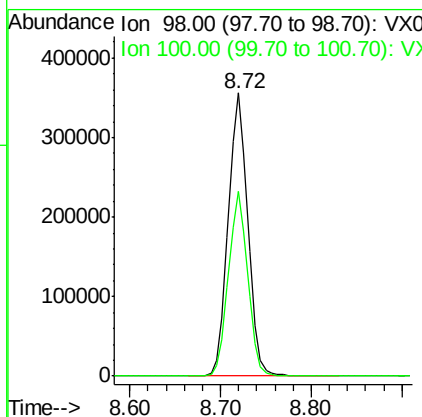
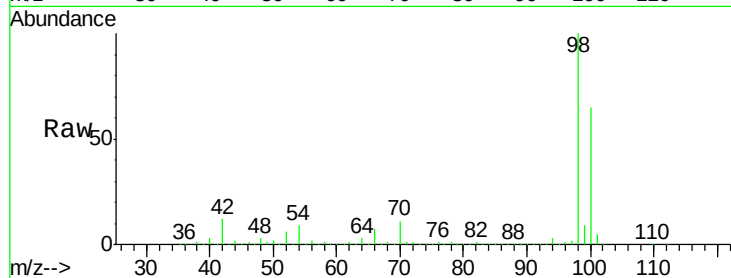




#50
Toluene-d8
Concen: 48.02 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003107.D
Acq: 01 Jul 2018 05:33

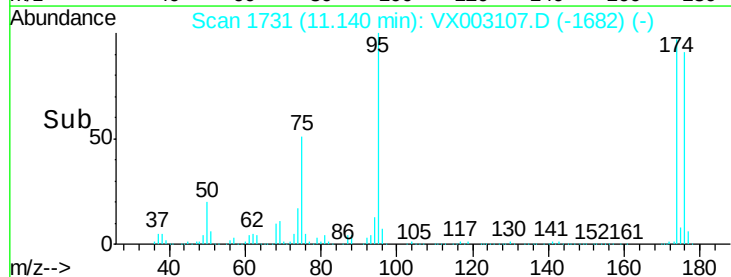
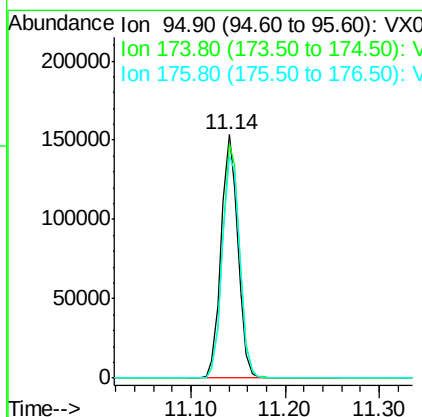
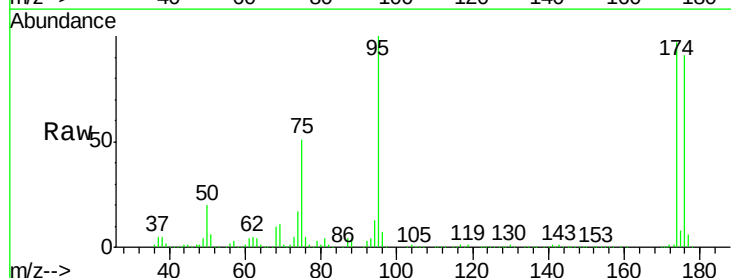
Instrument :
MSVOA_X
ClientSampleId :
MW-14

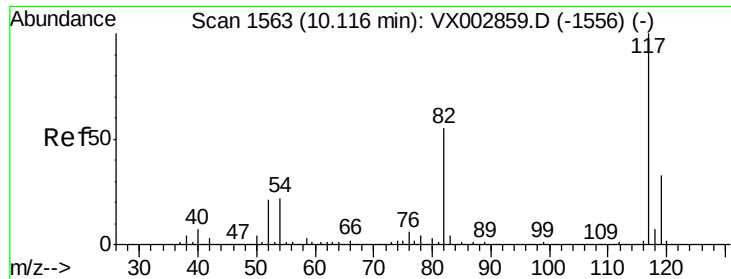
Tot Ion: 98 Resp: 534737
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.32 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003107.D
Acq: 01 Jul 2018 05:33

Tgt Ion: 95 Resp: 190338
Ion Ratio Lower Upper
95 100
174 98.3 0.0 187.4
176 94.9 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

MW-14

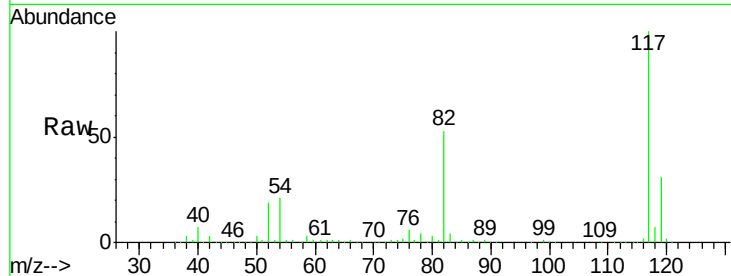
Tot Ion:117 Resp: 358606

Ion Ratio Lower Upper

117 100

82 53.1 45.0 67.4

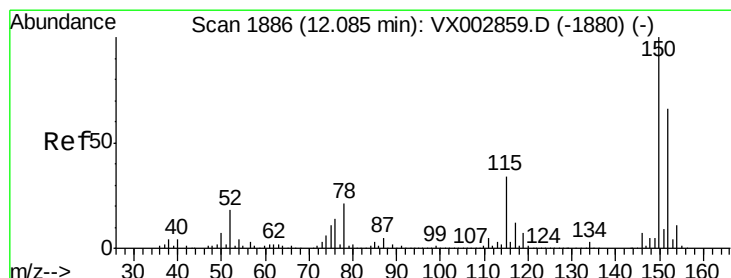
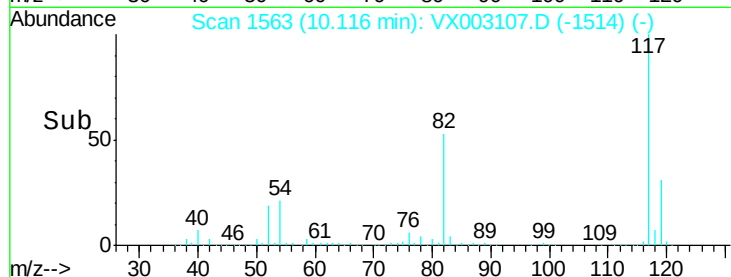
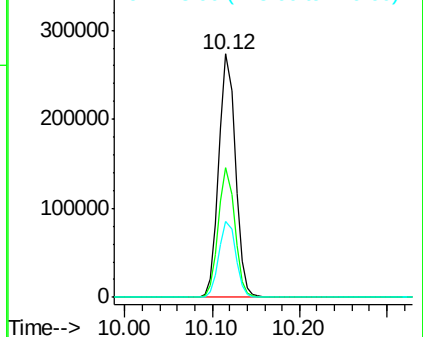
119 31.4 25.8 38.6



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: VX003107.D

Acq: 01 Jul 2018 05:33

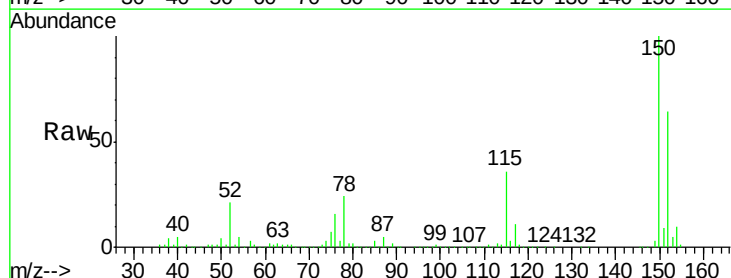
Tgt Ion:152 Resp: 204352

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

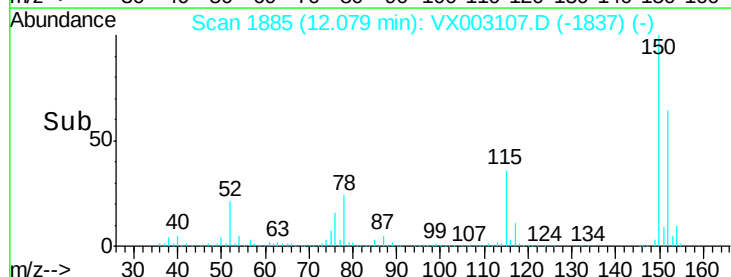
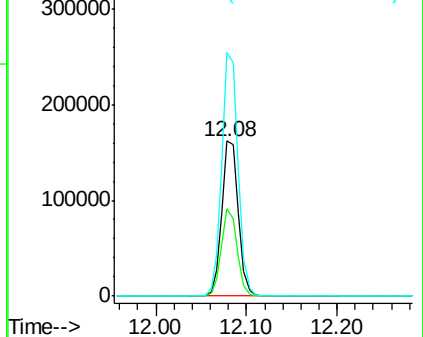
150 155.2 0.0 347.2

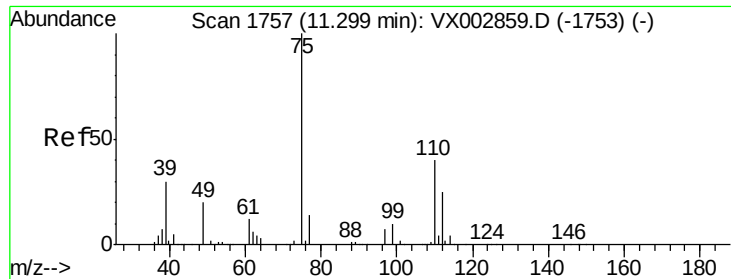


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

Instrument :

MSVOA_X

ClientSampled :

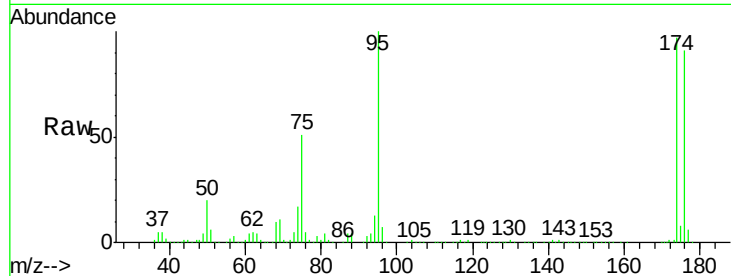
MW-14

Tot Ion: 75 Resp: 96634

Ion Ratio Lower Upper

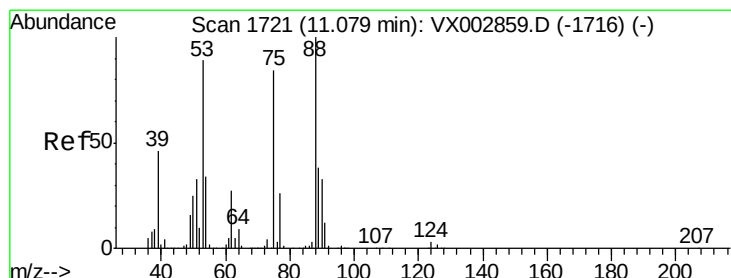
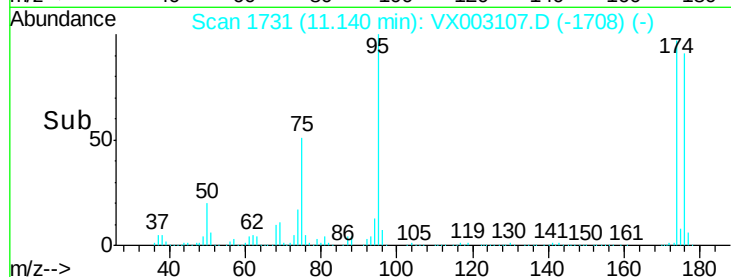
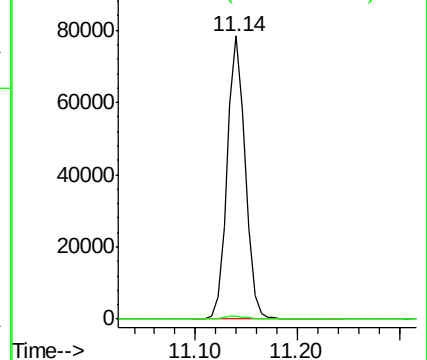
75 100

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: 74.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003107.D

Acq: 01 Jul 2018 05:33

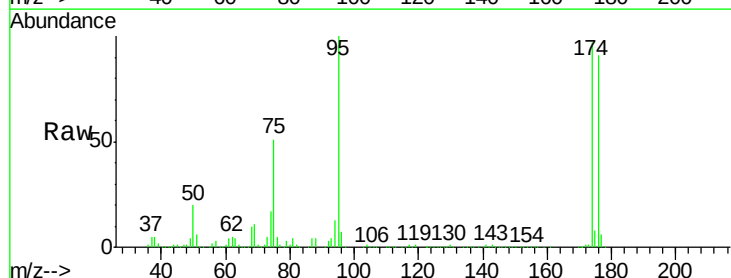
Tgt Ion: 75 Resp: 96634

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

