

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003116.D
 Acq On : 01 Jul 2018 09:32
 Operator : JC/MD
 Sample : J3799-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-6

Quant Time: Jul 02 05:00:38 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	291265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	410341	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	381621	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226102	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	191981	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
35) Dibromofluoromethane	5.51	113	157126	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	8.72	98	572097	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	11.14	95	215584	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	

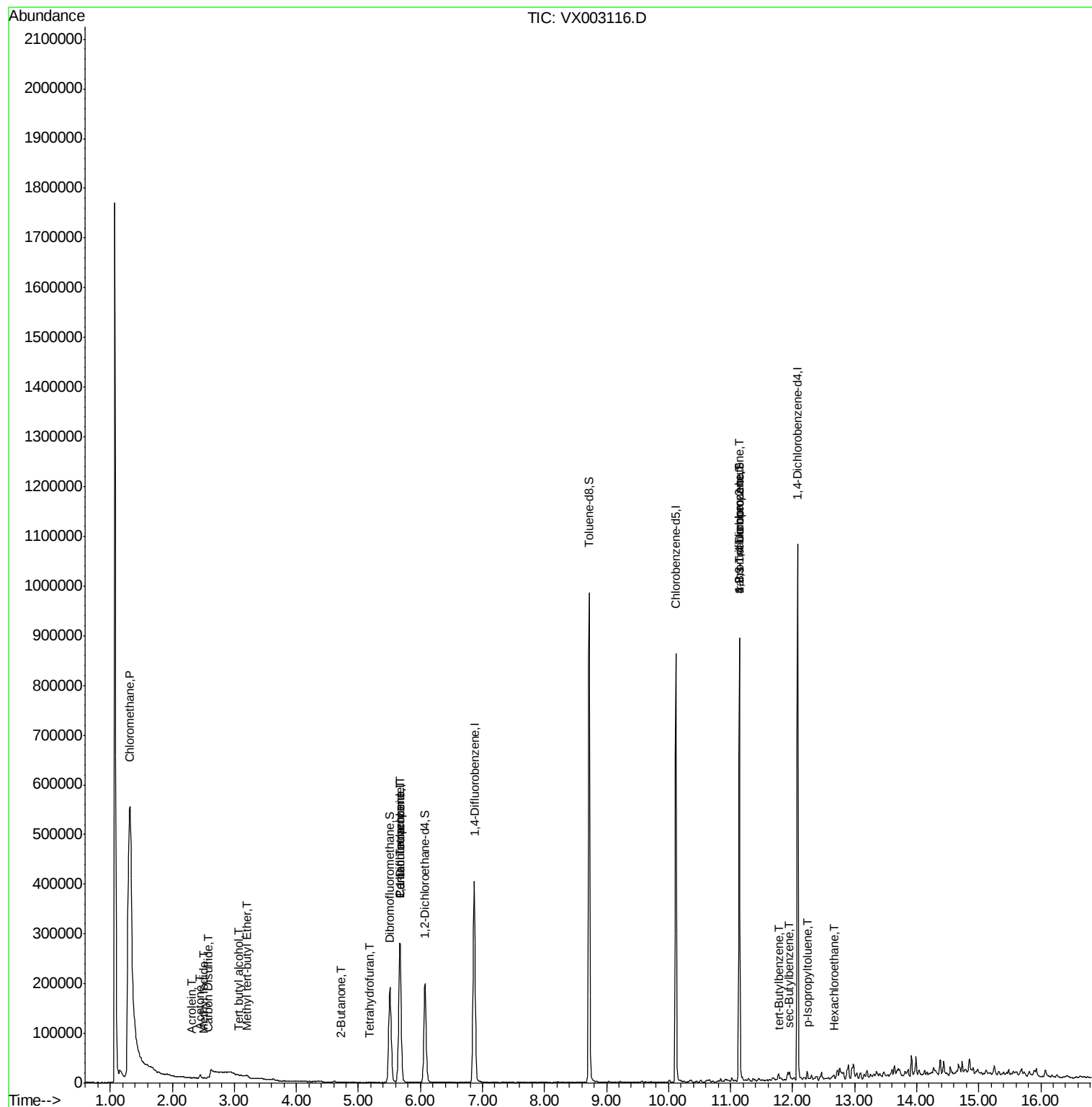
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.06	85	40	Below Cal	#	43
3) Chloromethane	1.32	50	43992	15.47	ug/l	# 47
5) Bromomethane	1.66	94	1240	Below Cal		81
10) Methyl Iodide	2.51	142	1337	6.58	ug/l	# 94
11) Tert butyl alcohol	3.07	59	1485	1.85	ug/l	# 58
13) Acrolein	2.30	56	270	4.83	ug/l	# 14
16) Acetone	2.45	43	7541	4.52	ug/l	97
17) Carbon Disulfide	2.57	76	2828	0.37	ug/l	95
19) Methyl tert-butyl Ether	3.21	73	4025	0.39	ug/l	94
25) 2-Butanone	4.71	43	578	0.23	ug/l	# 85
29) Tetrahydrofuran	5.18	42	365	0.23	ug/l	# 52
36) 1,1-Dichloropropene	5.67	75	18910	4.20	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	26443	5.35	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	108307	26.45	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	108307	74.93	ug/l	# 7
83) tert-Butylbenzene	11.77	119	4258	0.34	ug/l	93
85) sec-Butylbenzene	11.95	105	6236	0.41	ug/l	92
86) p-Isopropyltoluene	12.24	119	7214	0.52	ug/l	92
90) Hexachloroethane	12.67	117	562	0.27	ug/l	# 1

(#) = 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: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

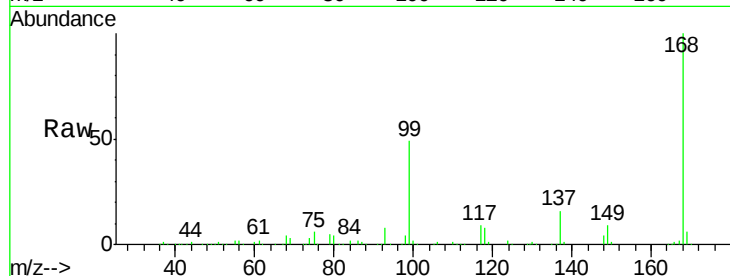
MW-6

Tot Ion:168 Resp: 291265

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

5.67

120000

100000

80000

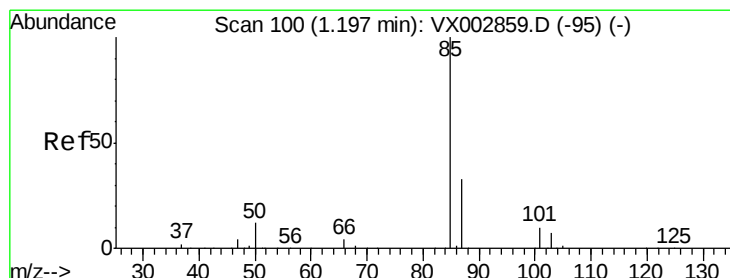
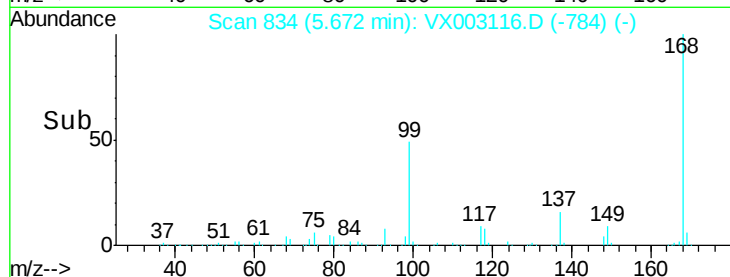
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.06 min Scan# 77

Delta R.T. -0.14 min

Lab File: VX003116.D

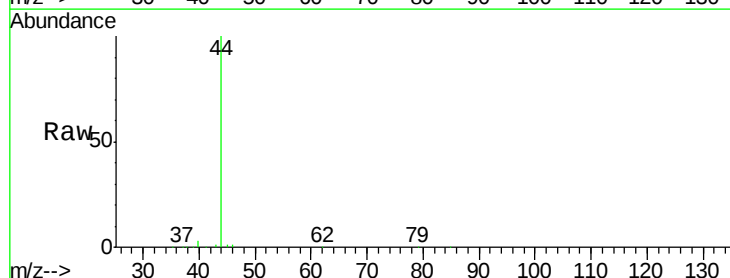
Acq: 01 Jul 2018 09:32

Tgt Ion: 85 Resp: 40

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

80

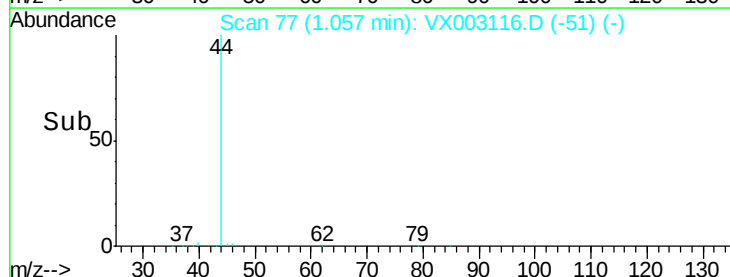
60

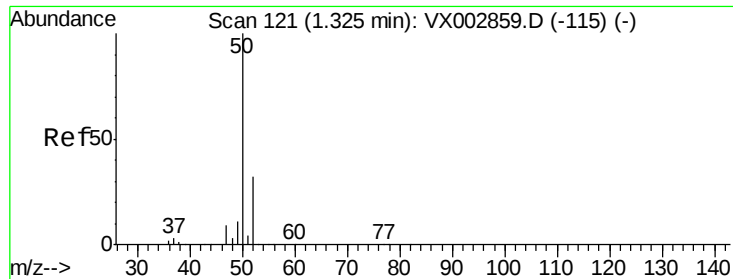
40

20

0

Time-->





#3

Chloromethane

Concen: 15.47 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

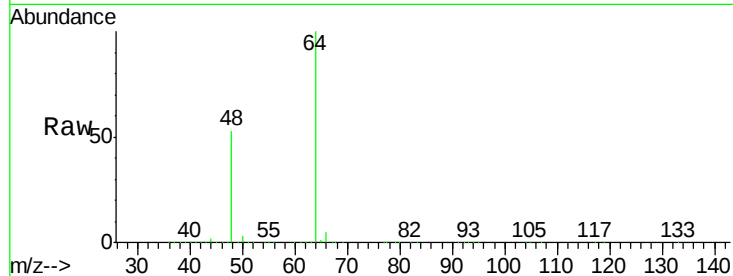
MW-6

Tot Ion: 50 Resp: 43992

Ion Ratio Lower Upper

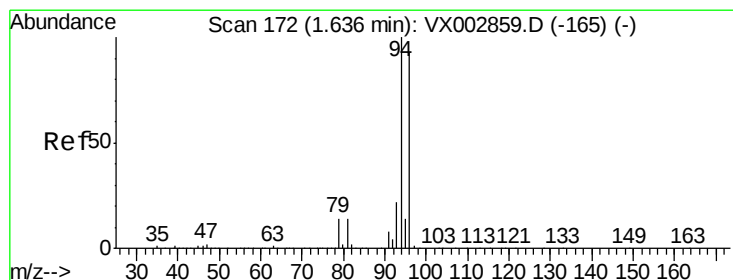
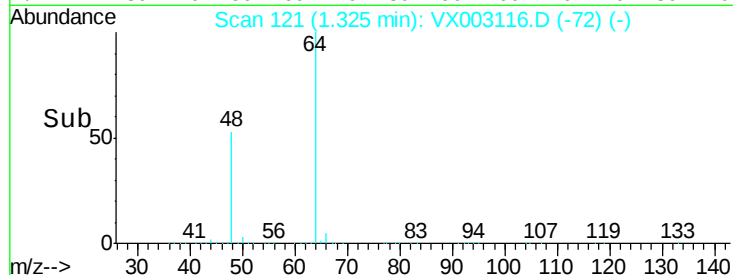
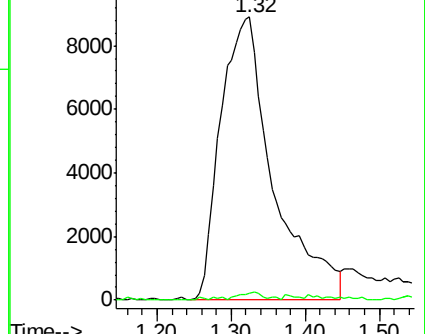
50 100

52 2.5 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: VX003116.D

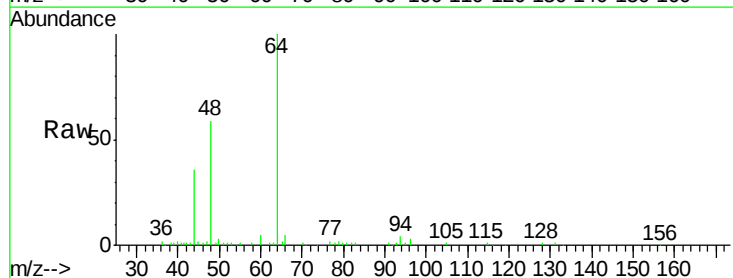
Acq: 01 Jul 2018 09:32

Tgt Ion: 94 Resp: 1240

Ion Ratio Lower Upper

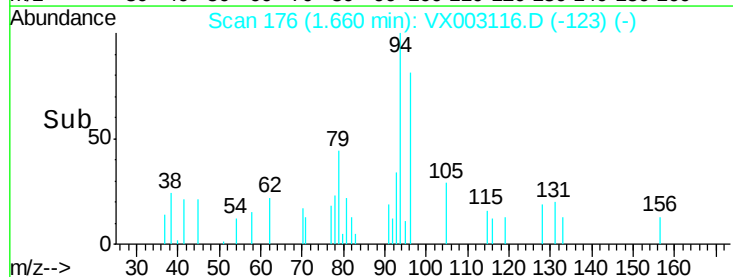
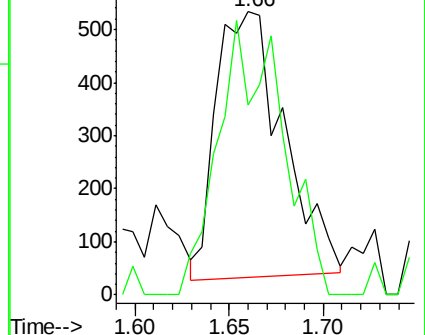
94 100

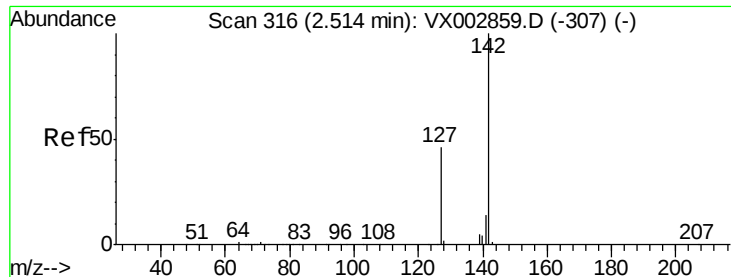
96 74.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

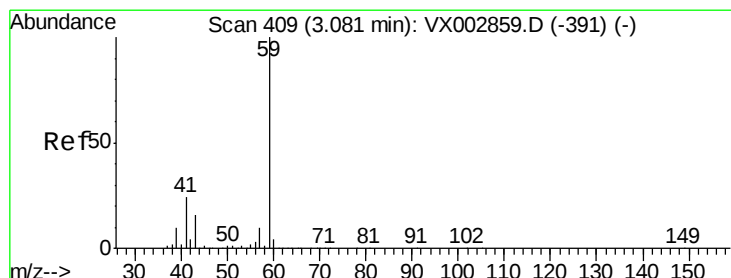
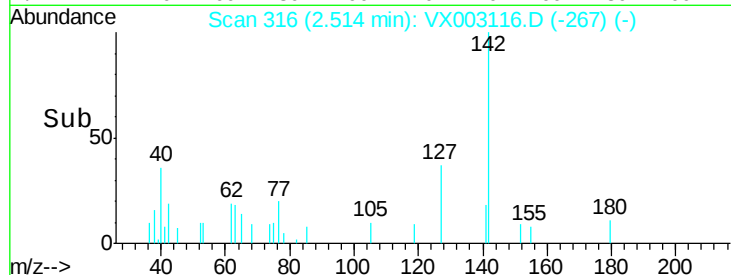
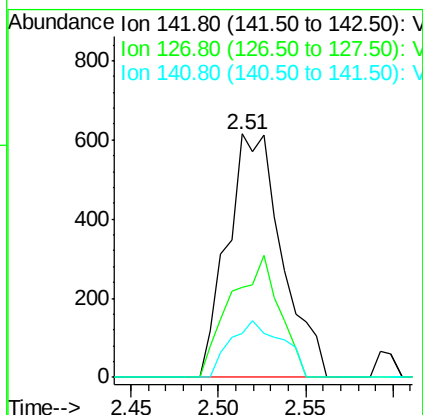
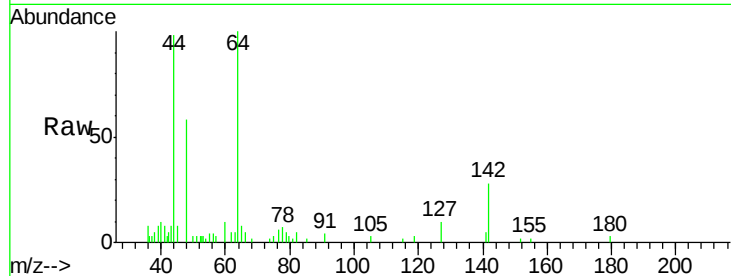




#10
Methvl Iodide
Concen: 6.58 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

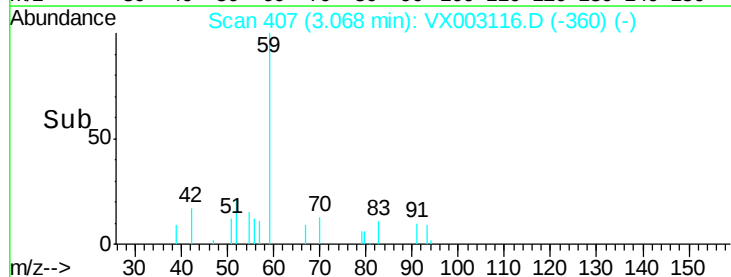
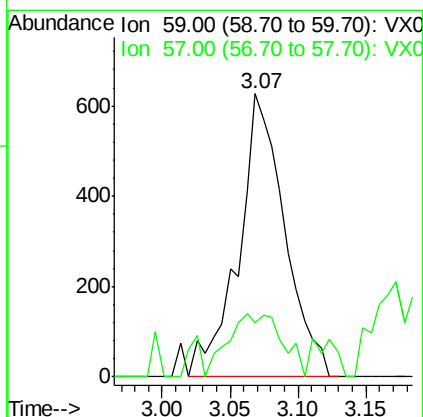
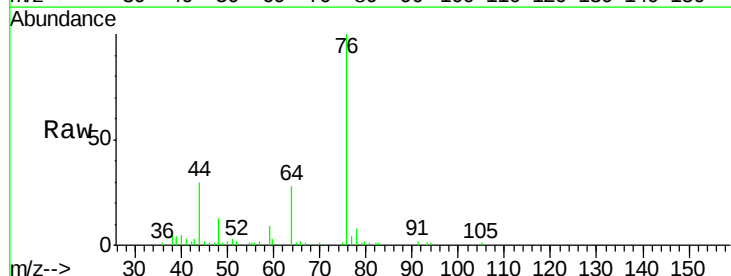
Instrument :
MSVOA_X
ClientSampled :
MW-6

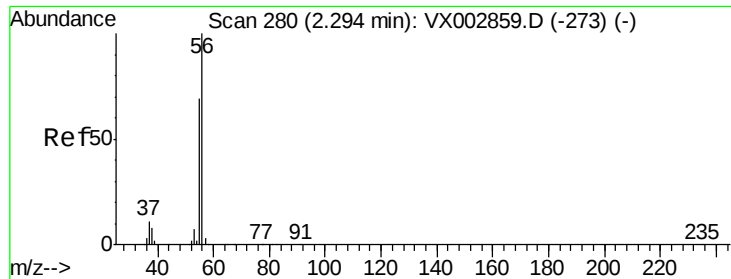
Tot Ion:142 Resp: 1337
Ion Ratio Lower Upper
142 100
127 44.7 36.6 55.0
141 22.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.85 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

Tgt Ion: 59 Resp: 1485
Ion Ratio Lower Upper
59 100
57 25.9 8.2 12.2#





#13

Acrolein

Concen: 4.83 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

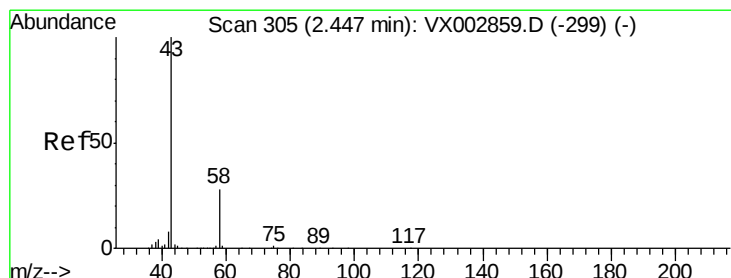
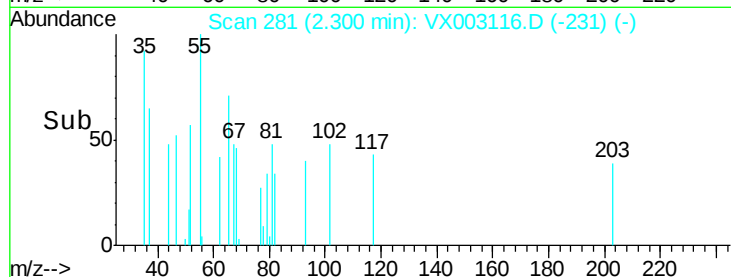
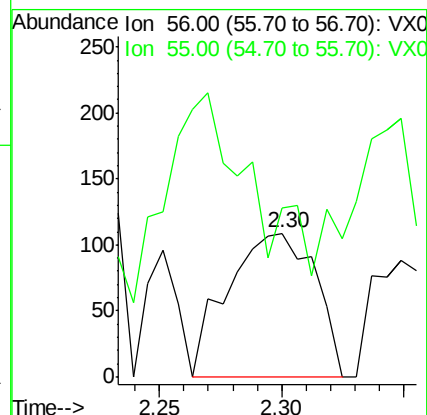
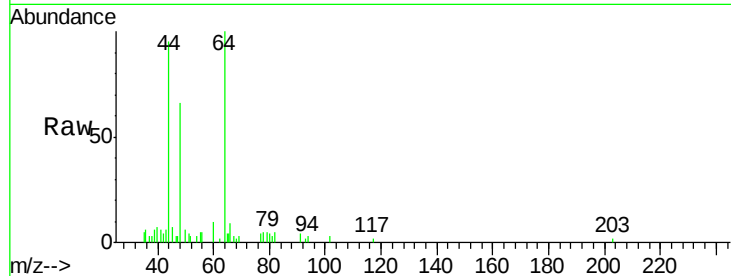
MW-6

Tot Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 4.52 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003116.D

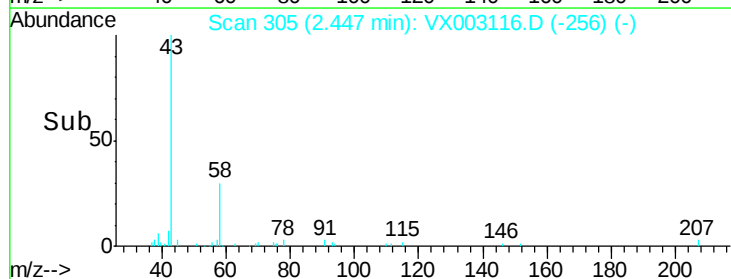
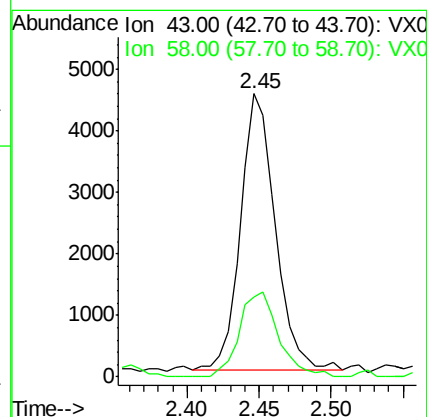
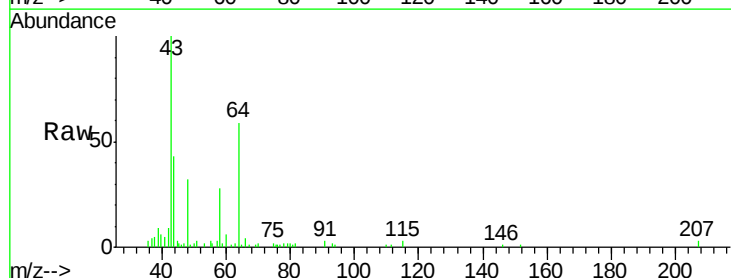
Acq: 01 Jul 2018 09:32

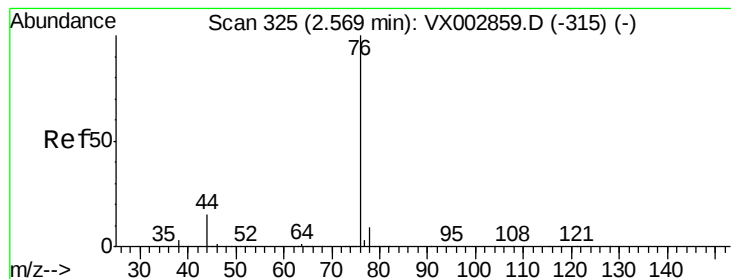
Tgt Ion: 43 Resp: 7541

Ion Ratio Lower Upper

43 100

58 29.0 22.1 33.1





#17

Carbon Disulfide

Concen: 0.37 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

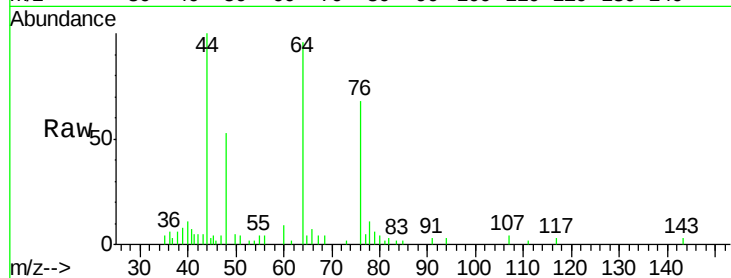
MW-6

Tot Ion: 76 Resp: 2828

Ion Ratio Lower Upper

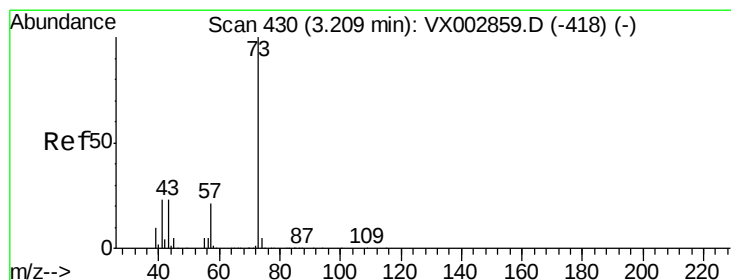
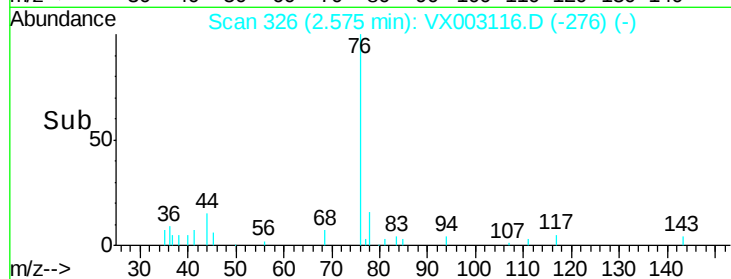
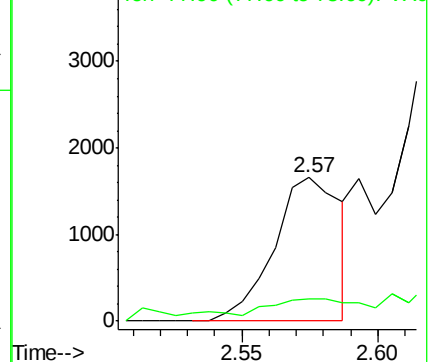
76 100

78 10.3 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.39 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX003116.D

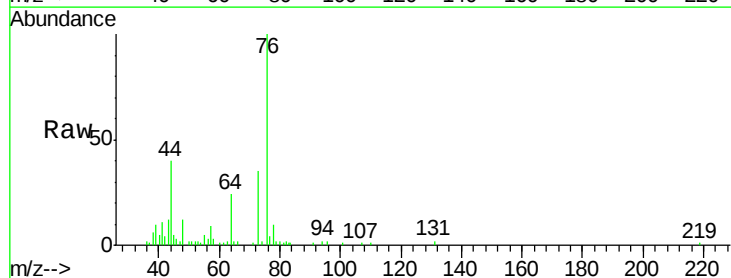
Acq: 01 Jul 2018 09:32

Tgt Ion: 73 Resp: 4025

Ion Ratio Lower Upper

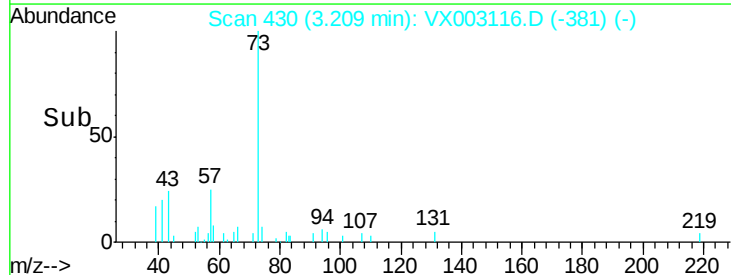
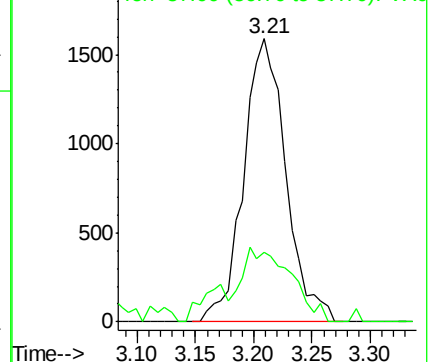
73 100

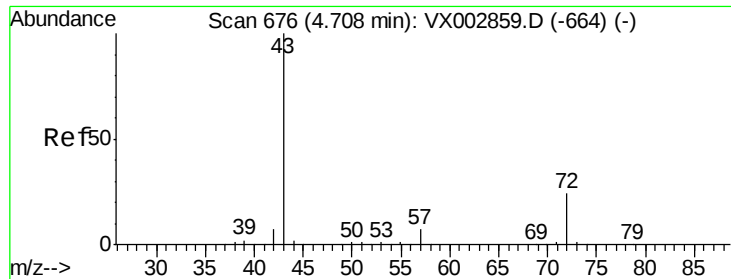
57 24.7 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 0.23 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampled :

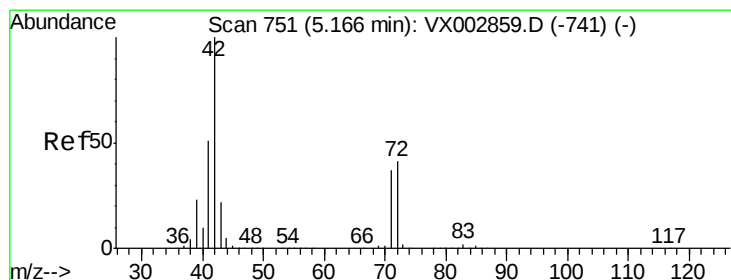
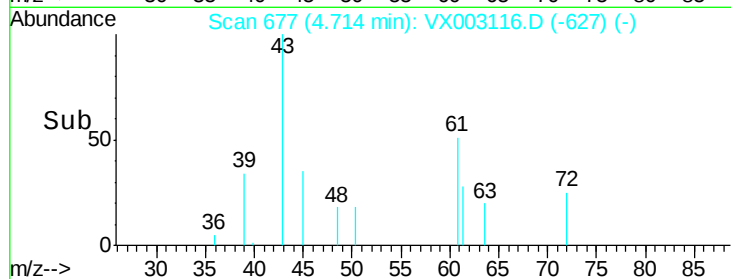
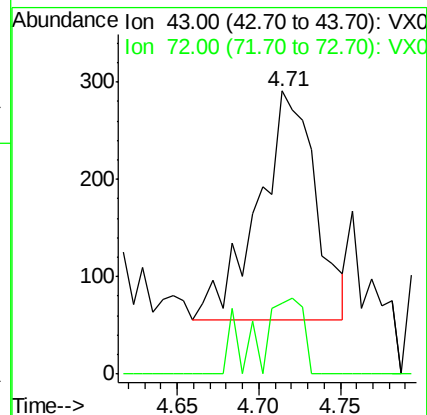
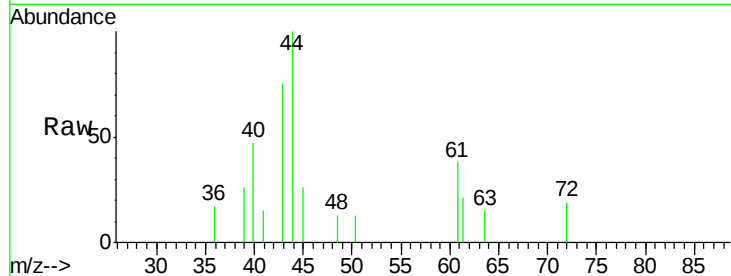
MW-6

Tot Ion: 43 Resp: 578

Ion Ratio Lower Upper

43 100

72 30.5 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.23 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

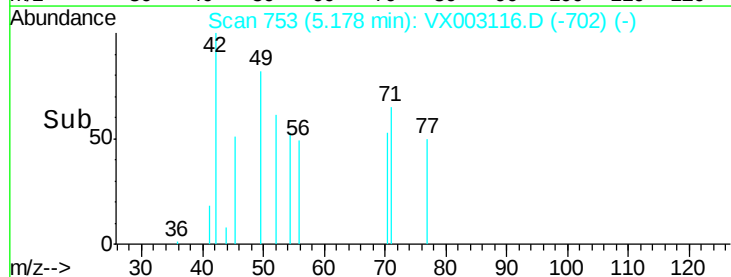
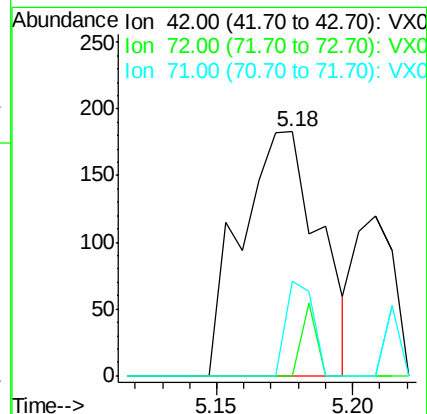
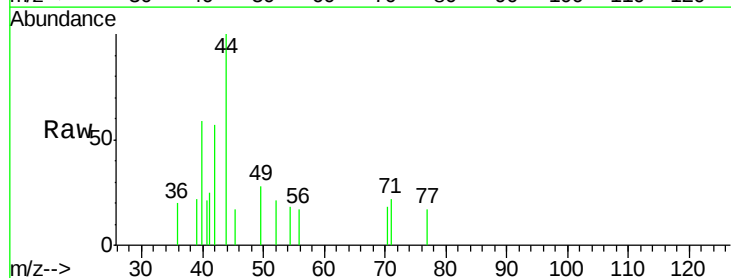
Tgt Ion: 42 Resp: 365

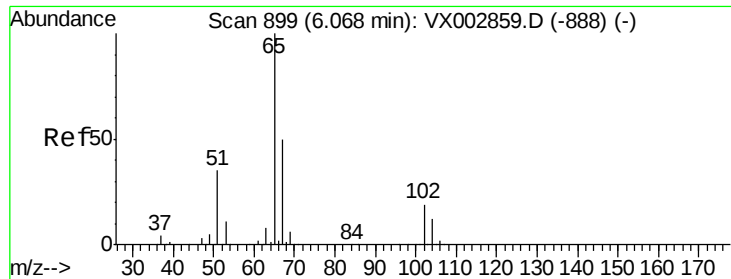
Ion Ratio Lower Upper

42 100

72 5.5 32.0 48.0#

71 13.4 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: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

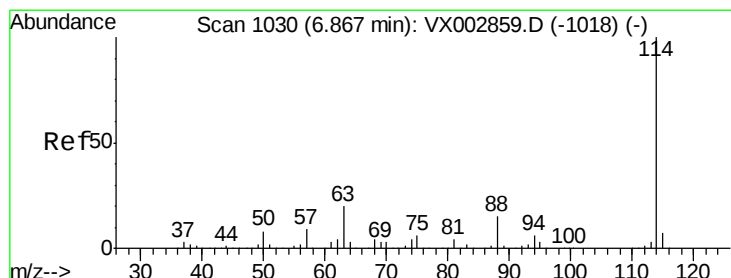
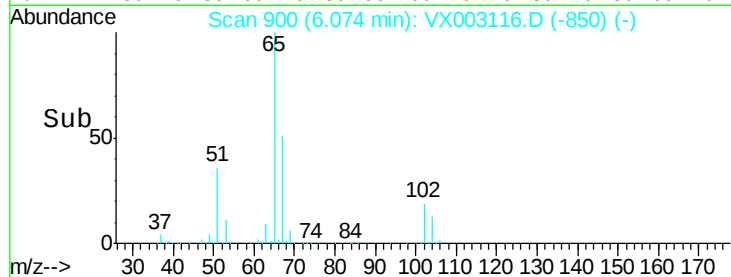
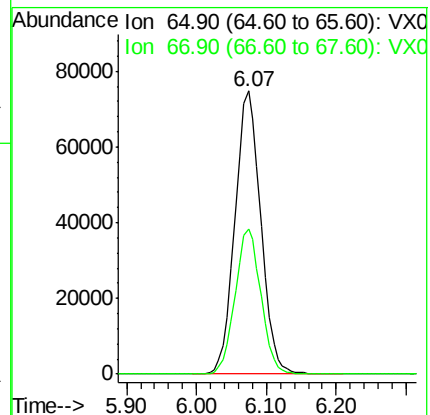
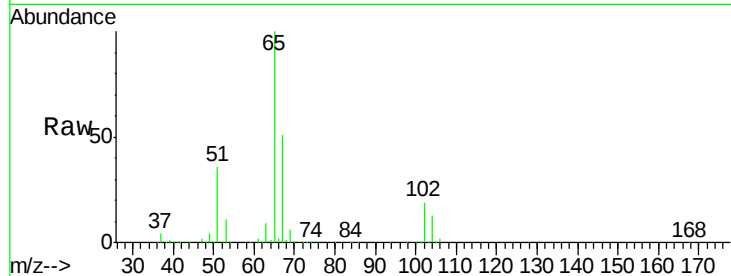
MW-6

Tot Ion: 65 Resp: 191981

Ion Ratio Lower Upper

65 100

67 51.3 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: VX003116.D

Acq: 01 Jul 2018 09:32

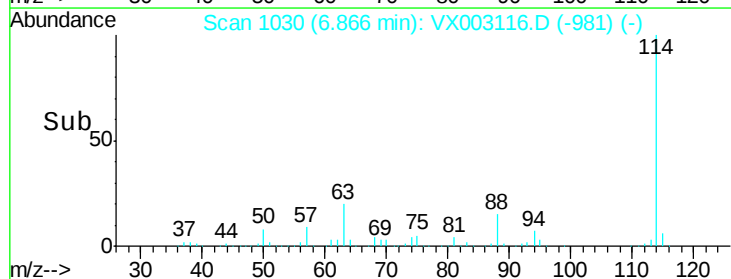
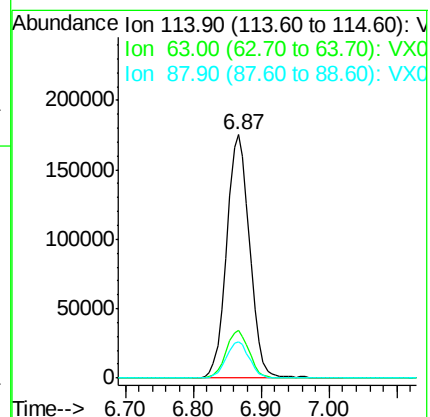
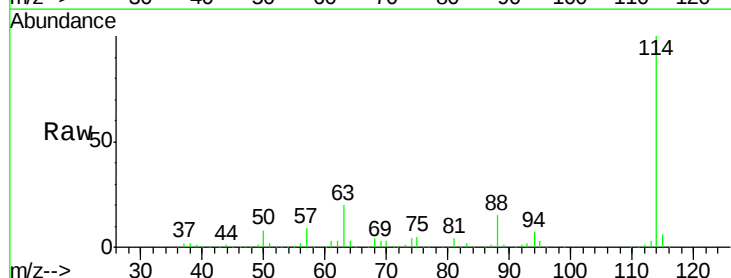
Tgt Ion: 114 Resp: 410341

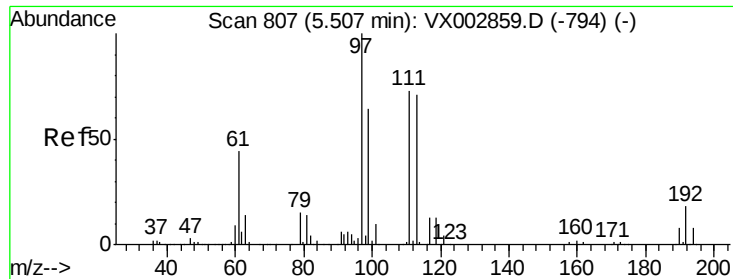
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

88 15.0 0.0 30.0

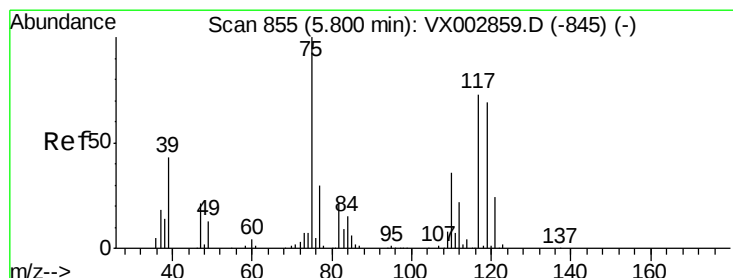
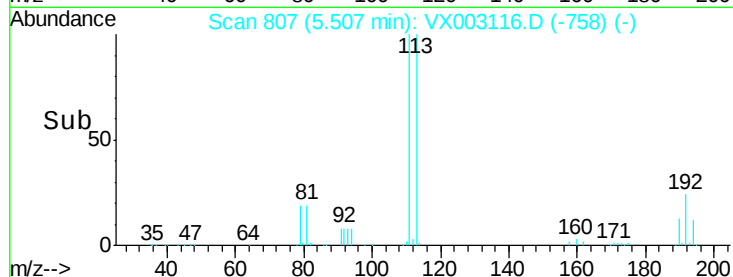
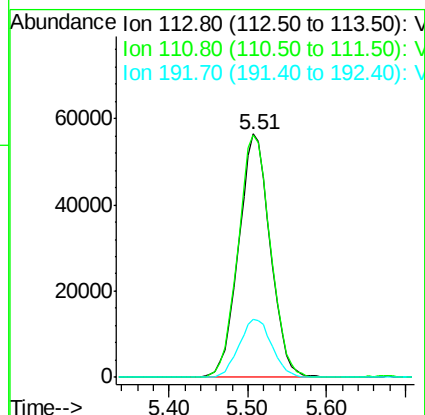
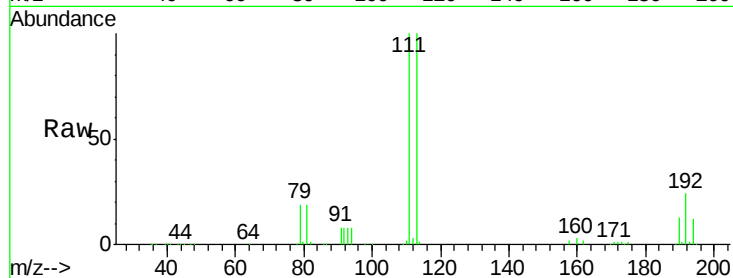




#35
Dibromofluoromethane
Concen: 48.35 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

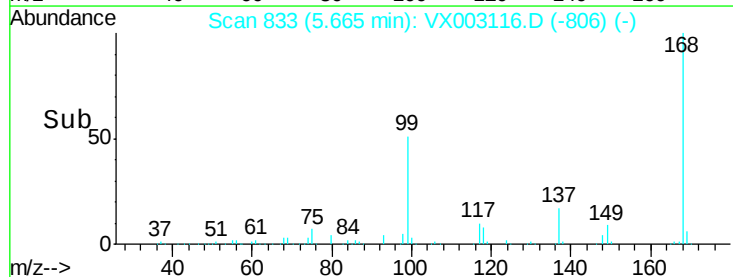
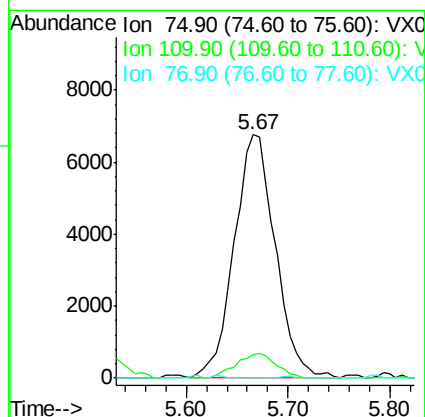
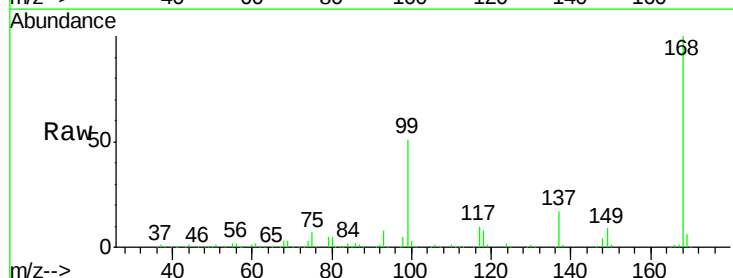
Instrument :
MSVOA_X
ClientSampleId :
MW-6

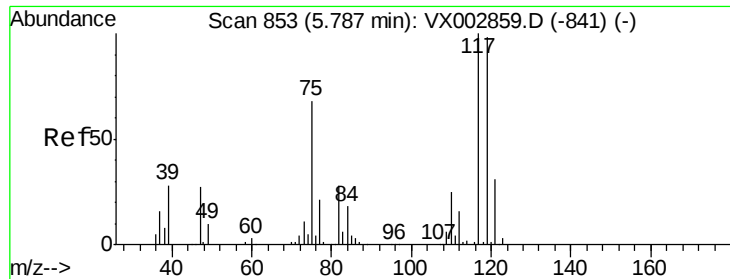
Tot Ion:113 Resp: 157126
Ion Ratio Lower Upper
113 100
111 101.8 81.4 122.0
192 24.8 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.20 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

Tgt Ion: 75 Resp: 18910
Ion Ratio Lower Upper
75 100
110 9.9 18.1 54.4#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.35 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampled :

MW-6

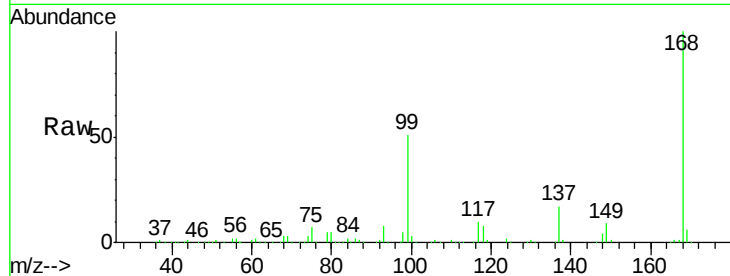
Tot Ion:117 Resp: 26443

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.0#

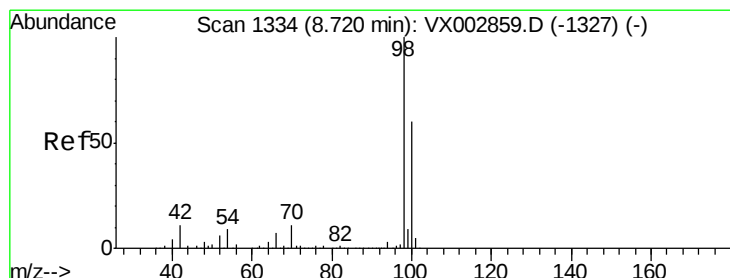
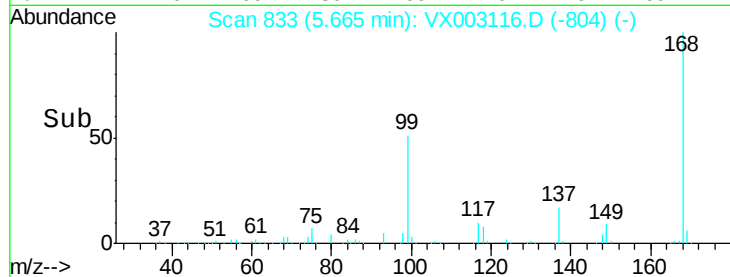
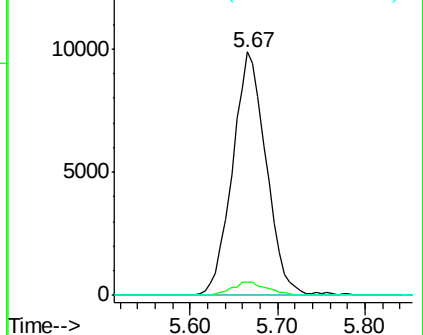
121 0.0 24.4 36.6#



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: 48.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003116.D

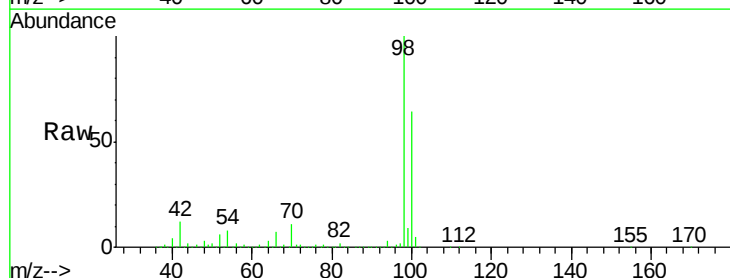
Acq: 01 Jul 2018 09:32

Tgt Ion: 98 Resp: 572097

Ion Ratio Lower Upper

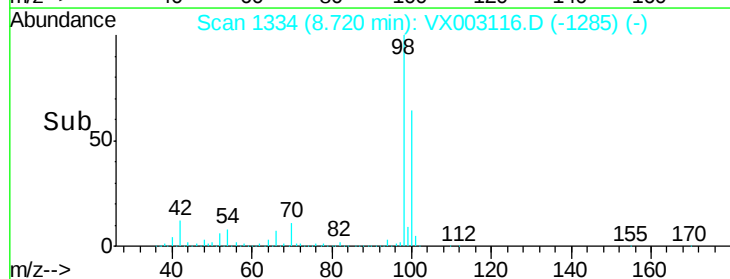
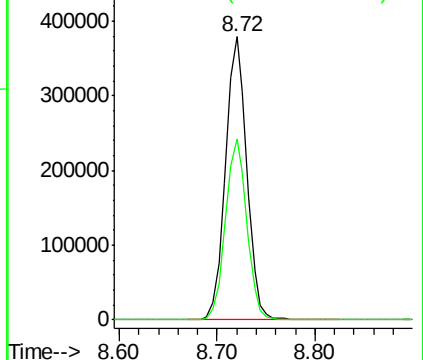
98 100

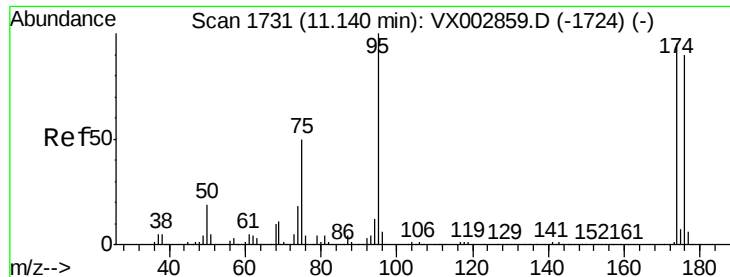
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

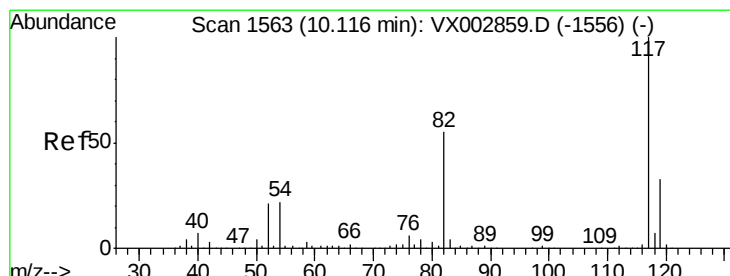
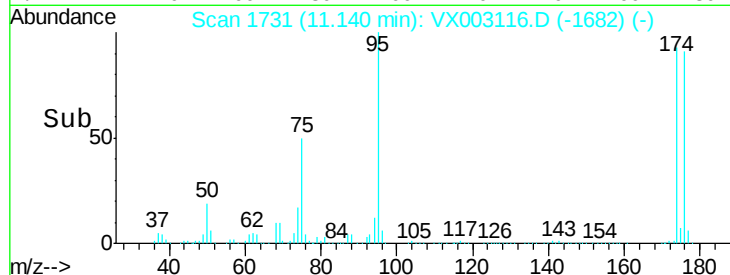
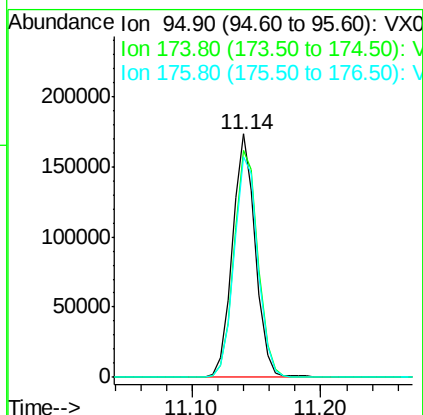
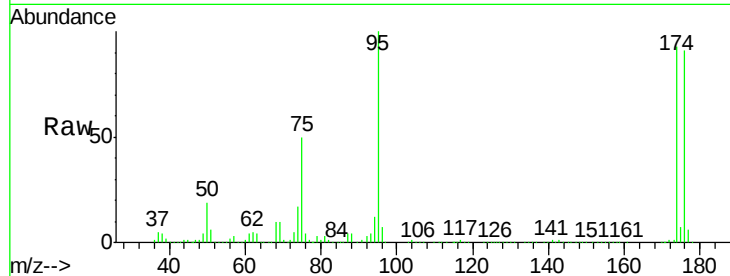




#62
4-Bromofluorobenzene
Concen: 47.11 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

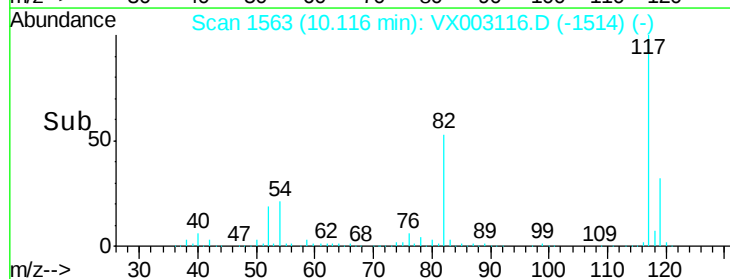
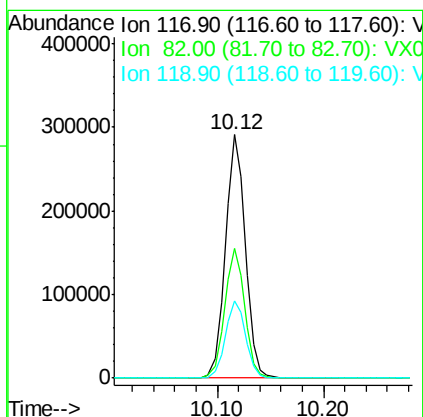
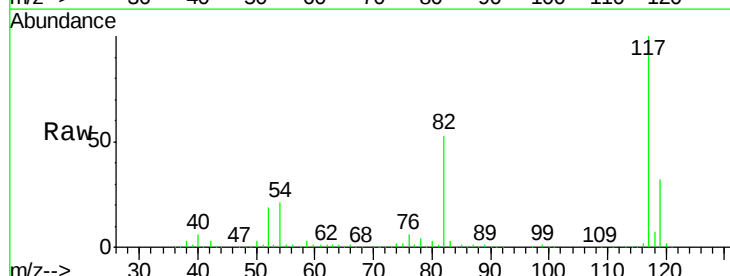
Instrument :
MSVOA_X
ClientSampleId :
MW-6

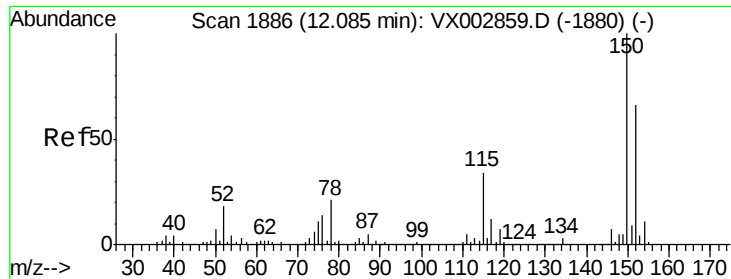
Tot Ion: 95 Resp: 215584
Ion Ratio Lower Upper
95 100
174 97.5 0.0 187.4
176 94.2 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003116.D
Acq: 01 Jul 2018 09:32

Tgt Ion: 117 Resp: 381621
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

MW-6

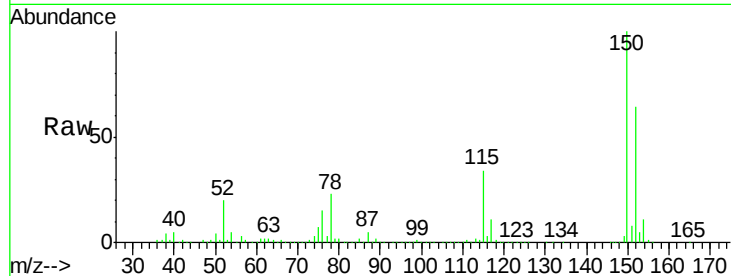
Tot Ion:152 Resp: 226102

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

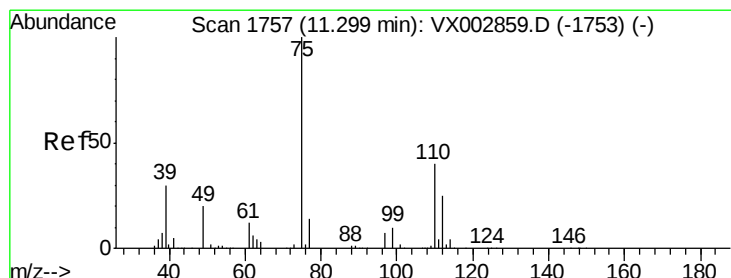
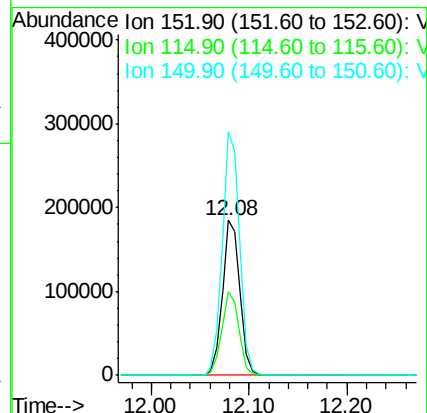
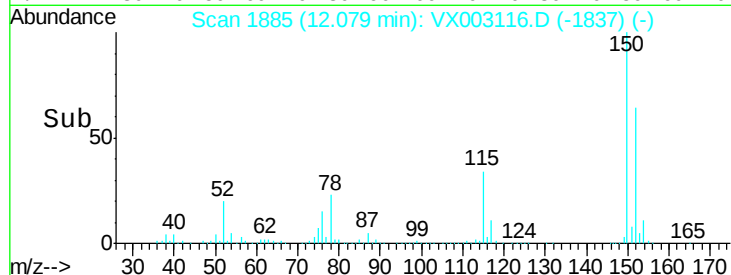
150 157.2 0.0 347.2



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: 26.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003116.D

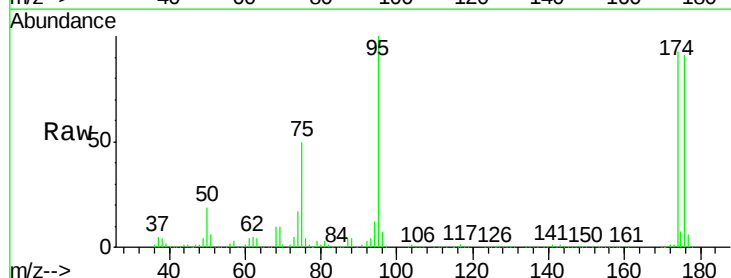
Acq: 01 Jul 2018 09:32

Tgt Ion: 75 Resp: 108307

Ion Ratio Lower Upper

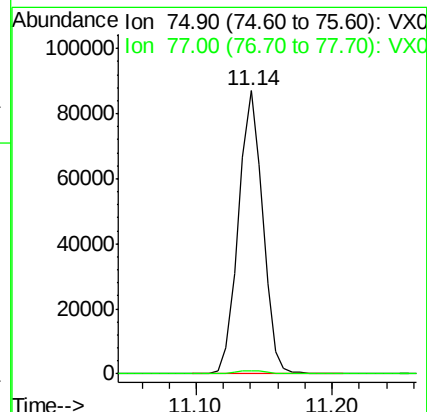
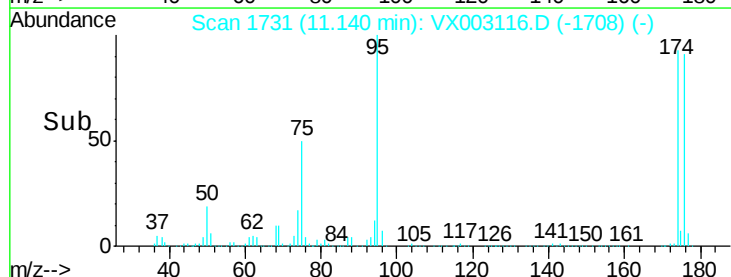
75 100

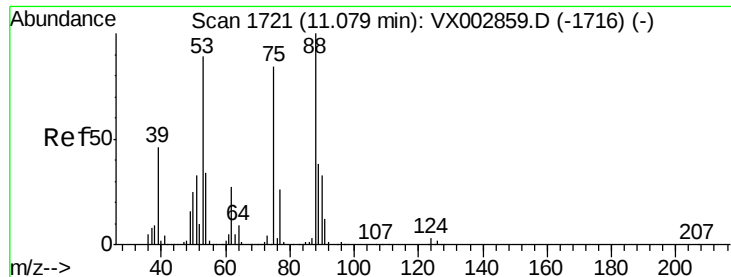
77 1.5 22.8 68.3#



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: 74.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

MW-6

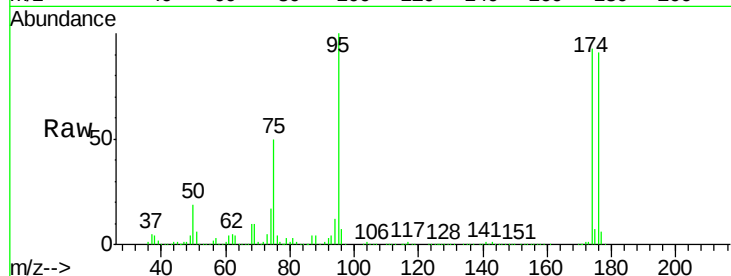
Tot Ion: 75 Resp: 108307

Ion Ratio Lower Upper

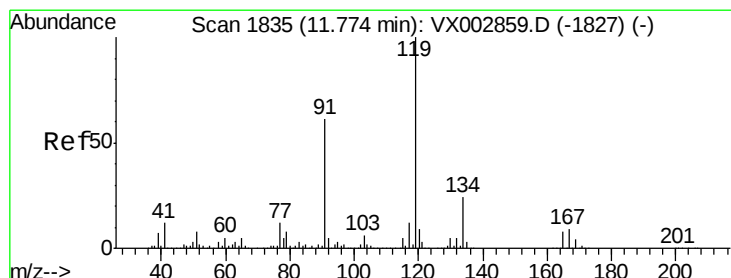
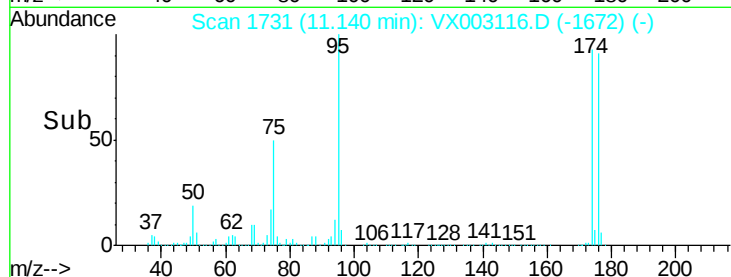
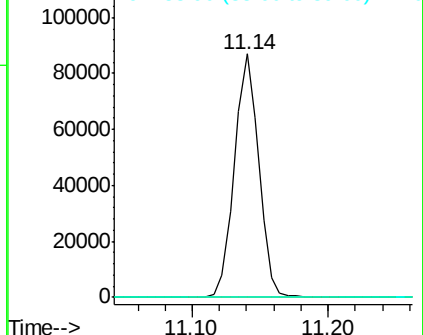
75 100

53 0.1 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



#83

tert-Butylbenzene

Concen: 0.34 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

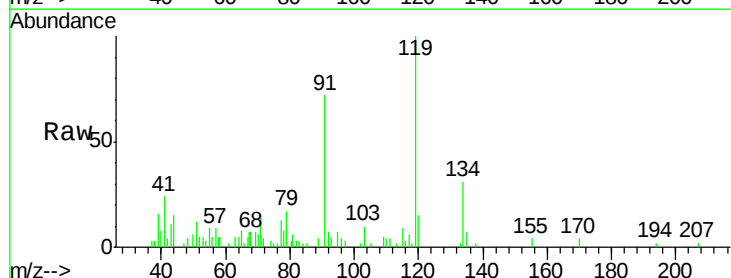
Tgt Ion: 119 Resp: 4258

Ion Ratio Lower Upper

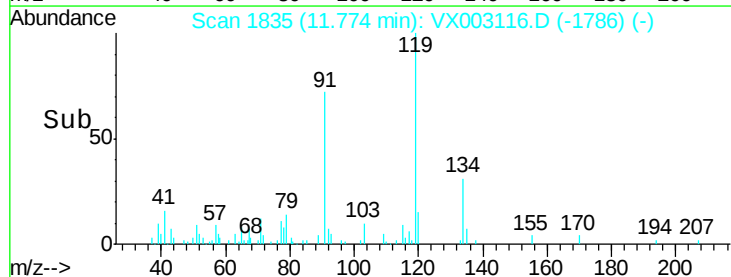
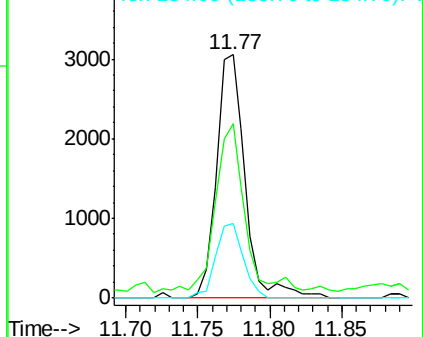
119 100

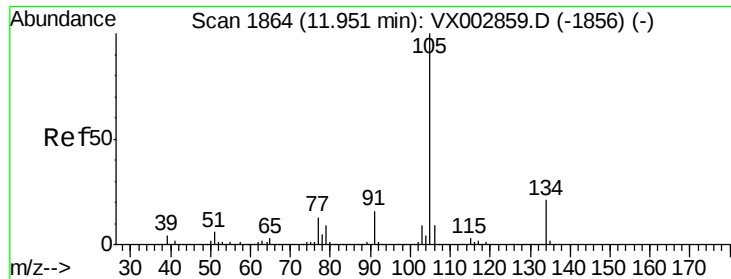
91 64.1 30.3 90.9

134 29.6 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VX0
Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 0.41 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampled :

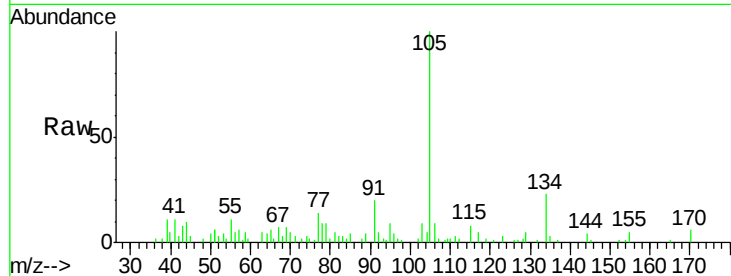
MW-6

Tot Ion:105 Resp: 6236

Ion Ratio Lower Upper

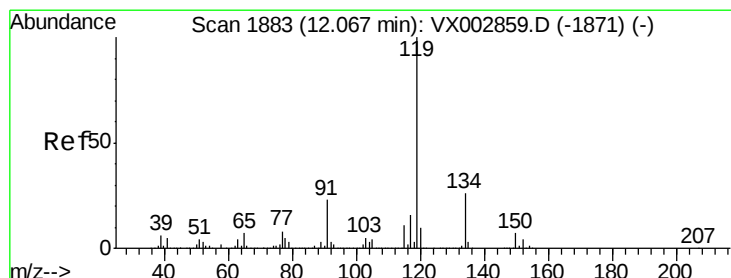
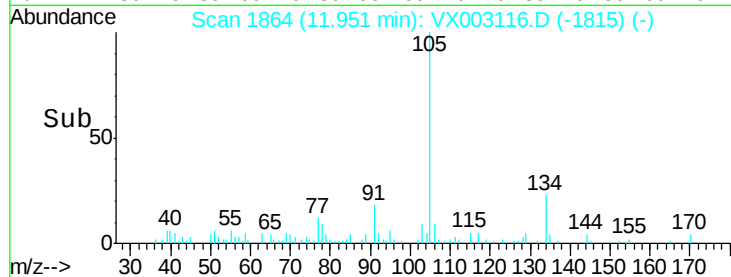
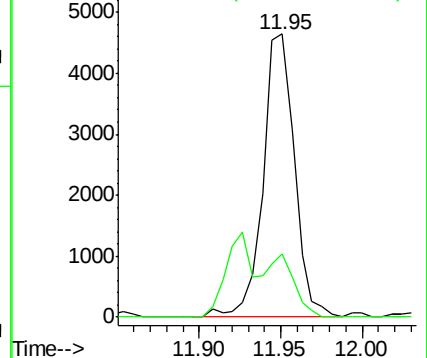
105 100

134 17.2 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.52 ug/l

RT: 12.24 min Scan# 1911

Delta R.T. 0.17 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

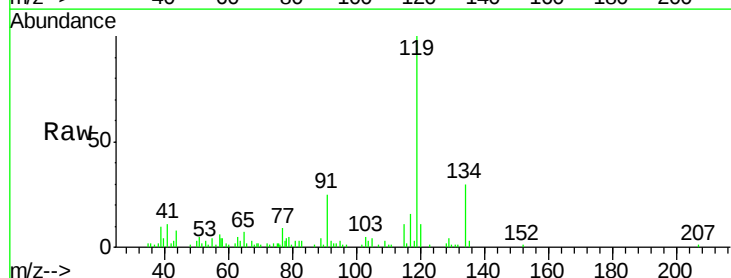
Tgt Ion:119 Resp: 7214

Ion Ratio Lower Upper

119 100

134 32.0 13.4 40.1

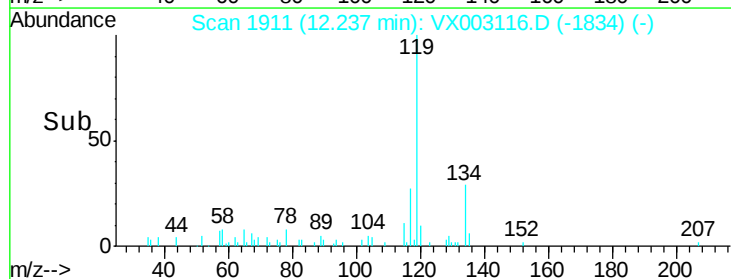
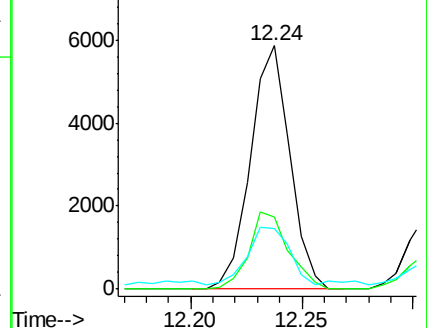
91 26.0 11.9 35.7

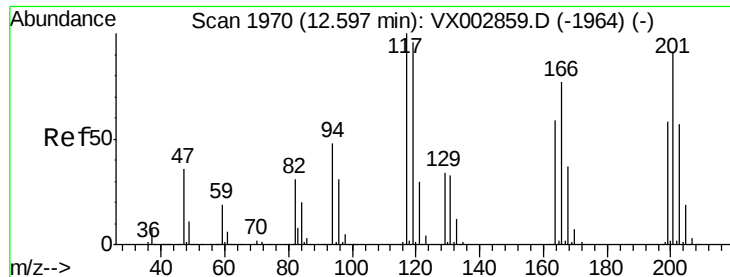


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: 0.27 ug/l

RT: 12.67 min Scan# 1982

Delta R.T. 0.07 min

Lab File: VX003116.D

Acq: 01 Jul 2018 09:32

Instrument :

MSVOA_X

ClientSampleId :

MW-6

Tot Ion:117 Resp: 562

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

