

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032619\
 Data File : VX008463.D
 Acq On : 26 Mar 2019 18:45
 Operator : JC/SP
 Sample : K2059-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

Quant Time: Mar 27 01:53:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	236572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399301	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138632	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	167896	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
35) Dibromofluoromethane	5.50	113	123577	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	8.71	98	500819	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.13	95	167352	43.38	ug/l	0.00
Spiked Amount			Recovery	=	86.76%	

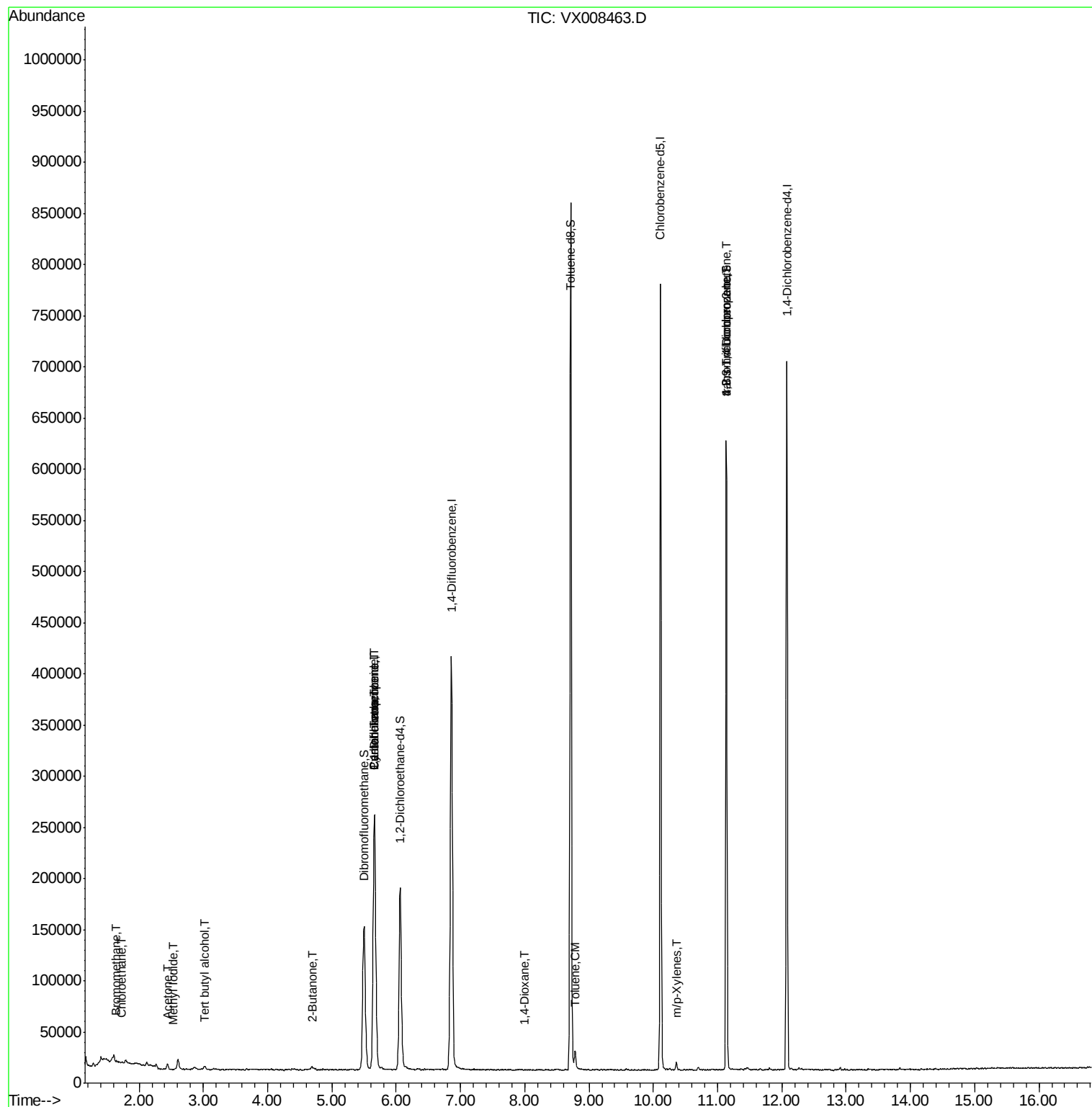
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	243	Below Cal	#	74
5) Bromomethane	1.65	94	100	1.855	ug/l #	17
6) Chloroethane	1.73	64	539	0.234	ug/l #	51
10) Methyl Iodide	2.53	142	44	4.145	ug/l #	42
11) Tert butyl alcohol	3.01	59	2043	2.571	ug/l #	72
16) Acetone	2.44	43	5355	2.857	ug/l	96
17) Carbon Disulfide	2.57	76	1289	Below Cal	#	68
20) Methylene Chloride	2.86	84	967	Below Cal	#	88
21) trans-1,2-Dichloroethene	3.17	96	112	Below Cal	#	39
25) 2-Butanone	4.70	43	730	0.243	ug/l #	52
31) Cyclohexane	5.66	56	5668	0.986	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20686	4.859	ug/l #	51
38) Carbon Tetrachloride	5.66	117	23060	6.490	ug/l #	16
49) 1,4-Dioxane	7.99	88	19	0.216	ug/l #	1
52) Toluene	8.79	92	6049	0.794	ug/l	99
68) m/p-Xylenes	10.36	106	1436	0.283	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	85592	20.768	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85592	66.516	ug/l #	9

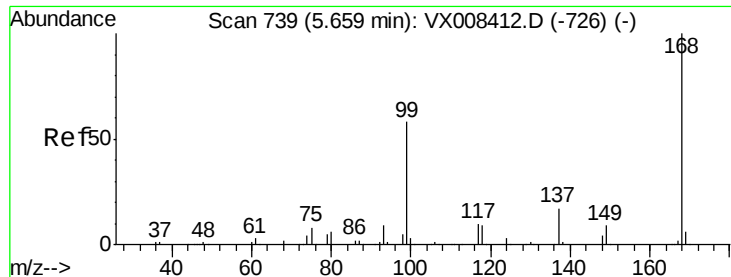
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

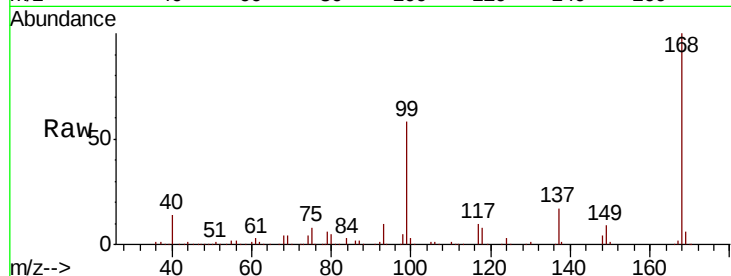
MW-5

Tot Ion:168 Resp: 236572

Ion Ratio Lower Upper

168 100

99 58.2 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

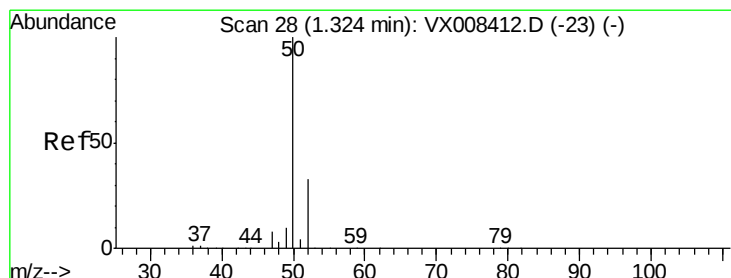
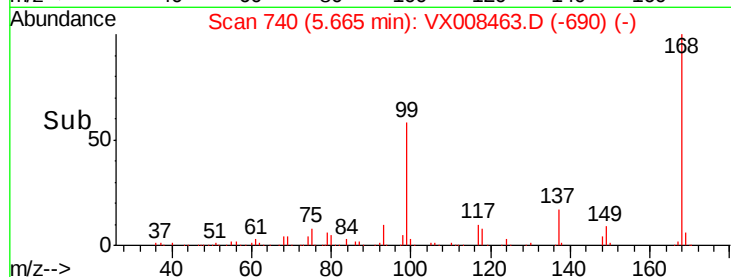
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008463.D

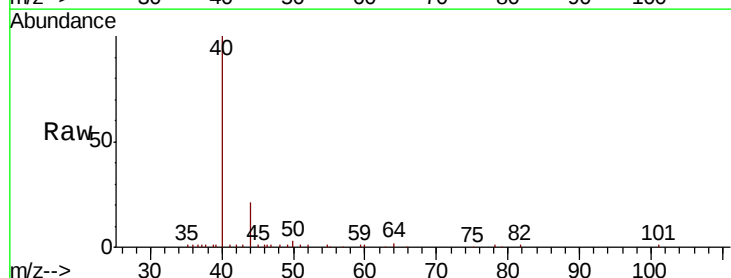
Acq: 26 Mar 2019 18:45

Tgt Ion: 50 Resp: 243

Ion Ratio Lower Upper

50 100

52 47.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

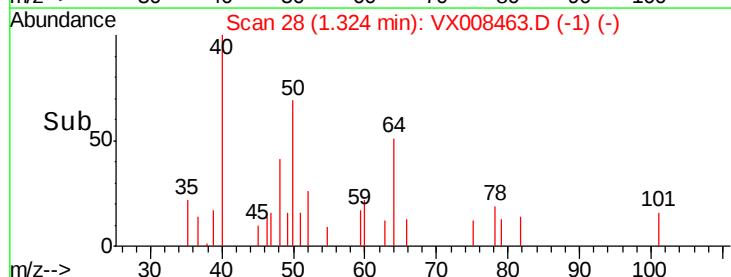
200

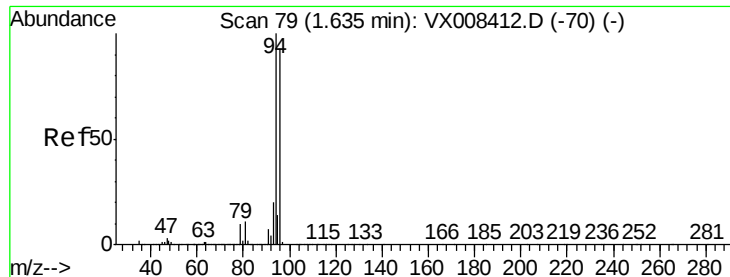
100

0

Time-->

1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 1.855 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampled :

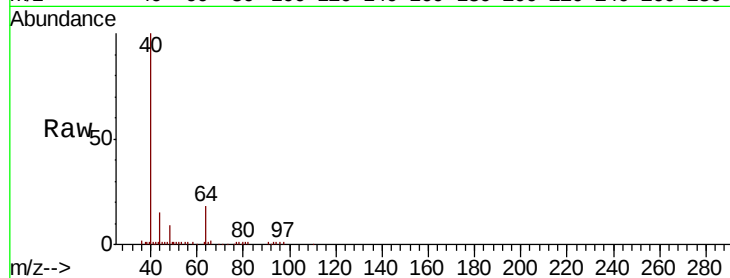
MW-5

Tot Ion: 94 Resp: 100

Ion Ratio Lower Upper

94 100

96 173.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1.65

1.65

1.65

1.65

1.65

1.65

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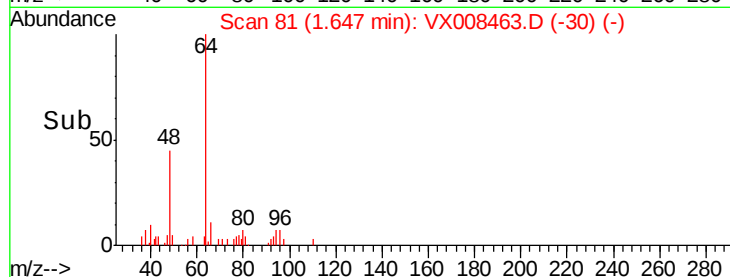
1.65

1.65

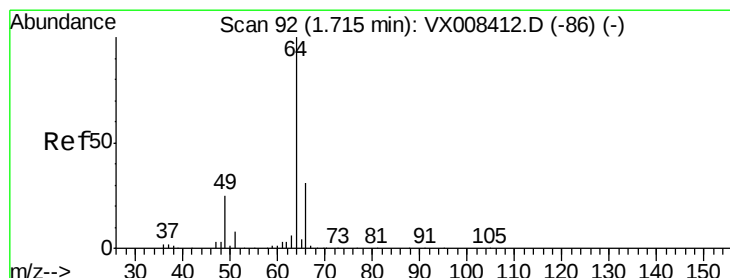
1.65

1.65

1.65



Time-->



#6

Chloroethane

Concen: 0.234 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008463.D

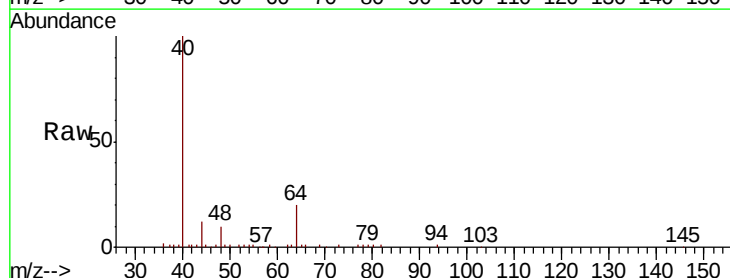
Acq: 26 Mar 2019 18:45

Tgt Ion: 64 Resp: 539

Ion Ratio Lower Upper

64 100

66 4.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

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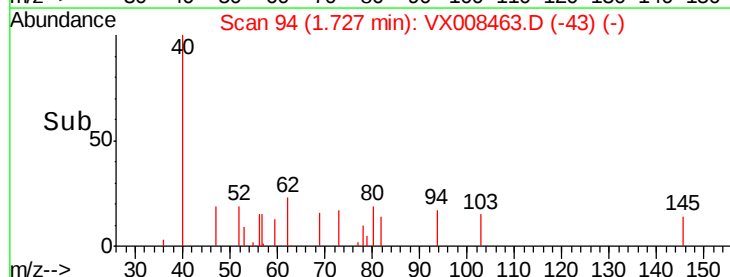
1.73

1.73

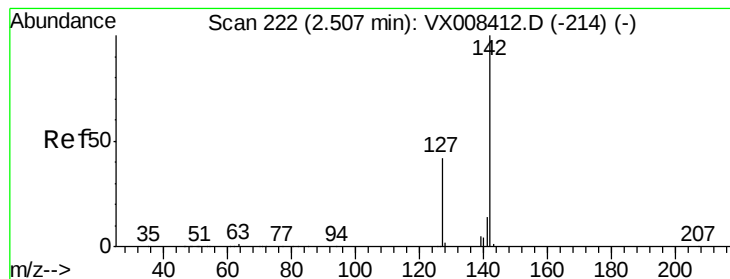
1.73

1.73

1.73



Time-->



#10

Methvl Iodide

Concen: 4.145 ug/l

RT: 2.53 min Scan# 226

Delta R.T. 0.02 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

MW-5

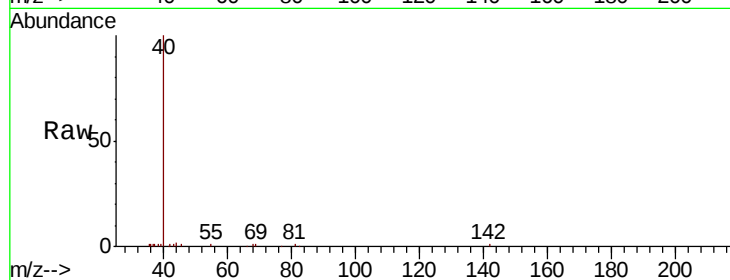
Tot Ion:142 Resp: 44

Ion Ratio Lower Upper

142 100

127 0.0 33.6 50.4#

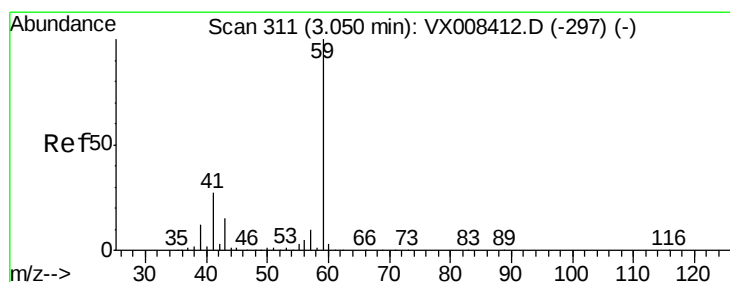
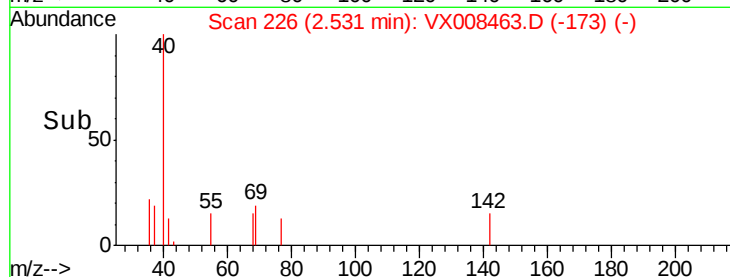
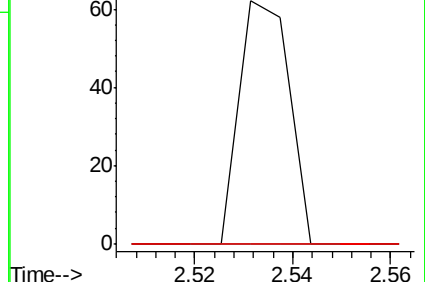
141 0.0 11.3 16.9#



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: 2.571 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX008463.D

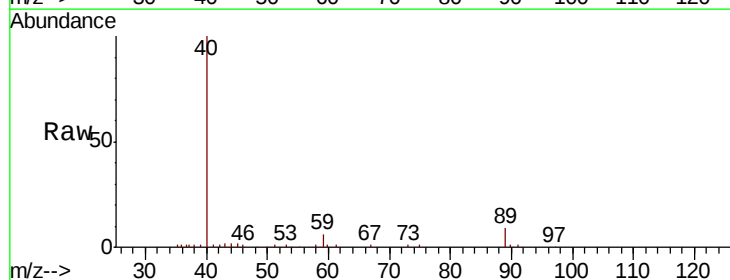
Acq: 26 Mar 2019 18:45

Tgt Ion: 59 Resp: 2043

Ion Ratio Lower Upper

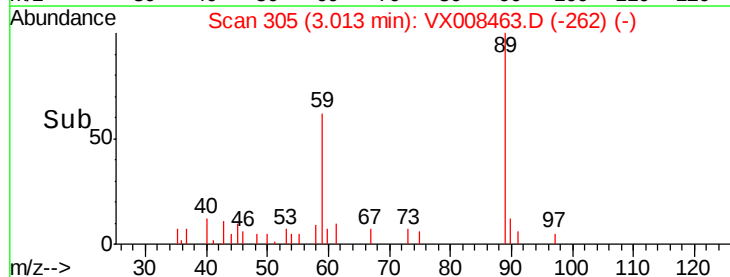
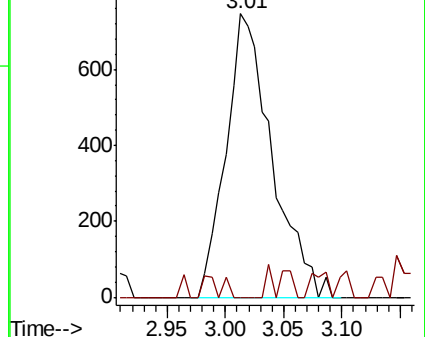
59 100

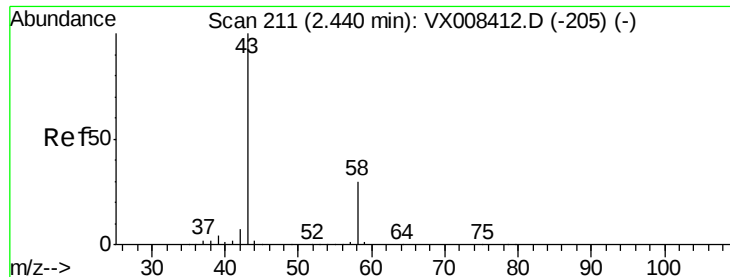
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 2.857 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

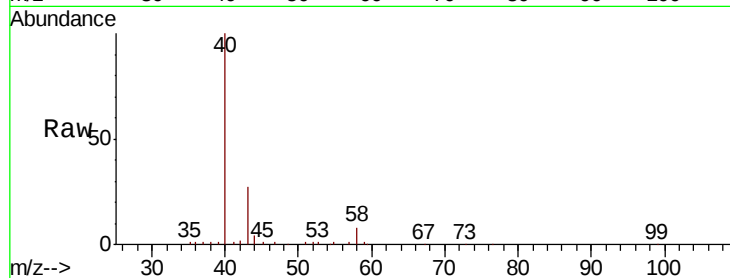
MW-5

Tot Ion: 43 Resp: 5355

Ion Ratio Lower Upper

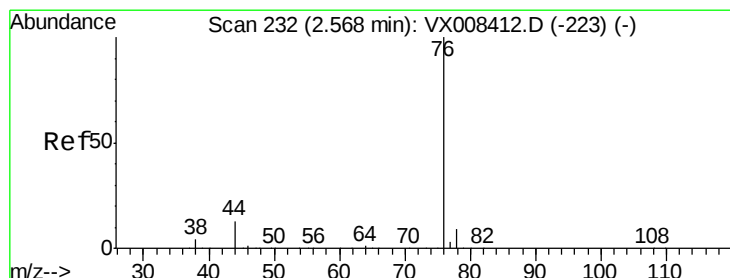
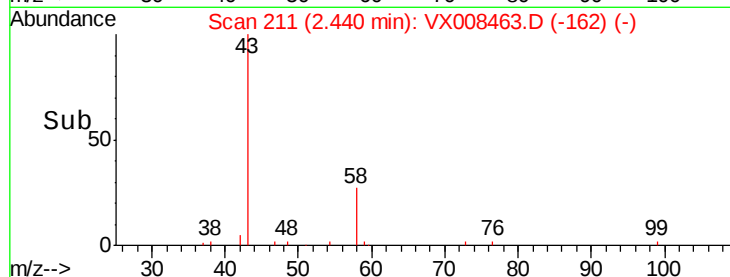
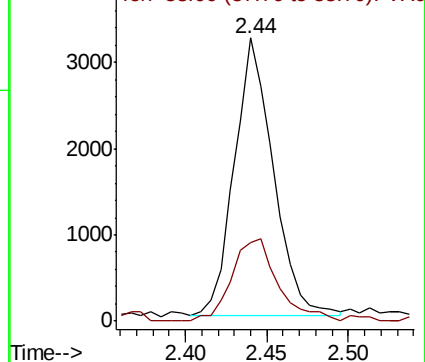
43 100

58 28.1 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008463.D

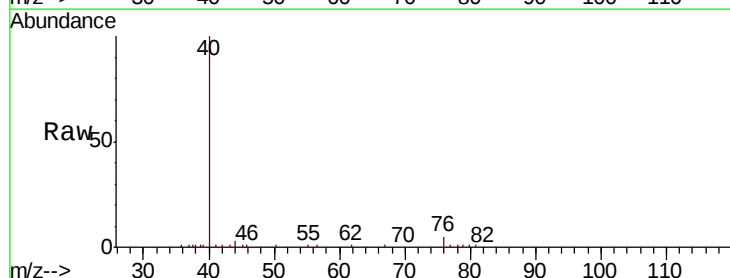
Acq: 26 Mar 2019 18:45

Tgt Ion: 76 Resp: 1289

Ion Ratio Lower Upper

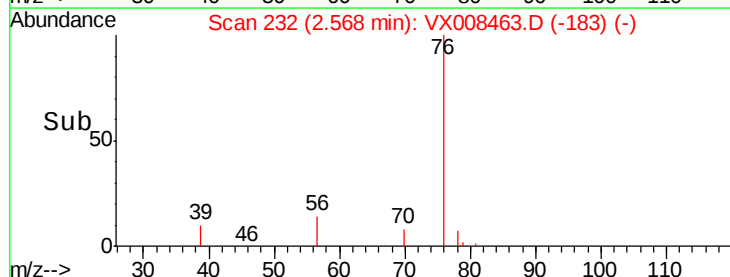
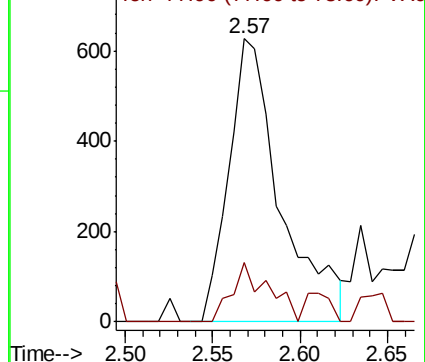
76 100

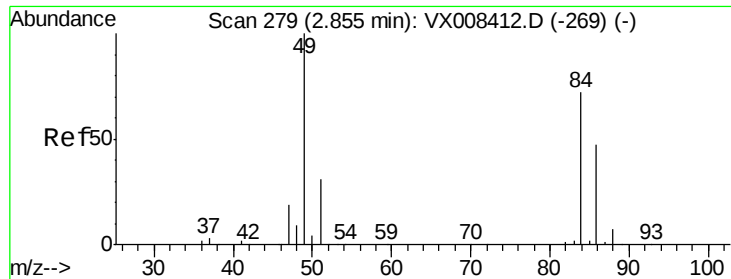
78 20.9 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

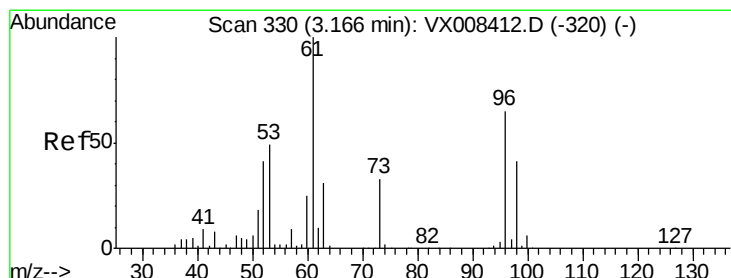
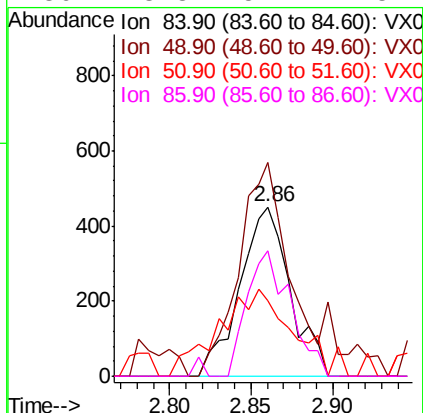
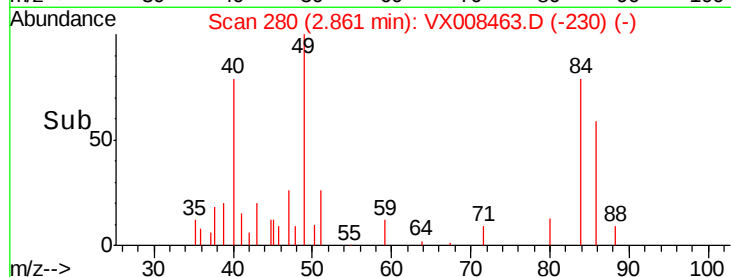
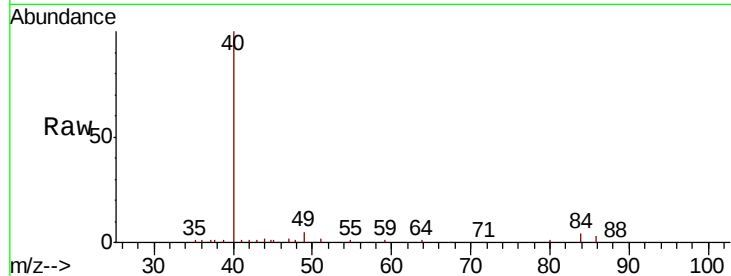




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

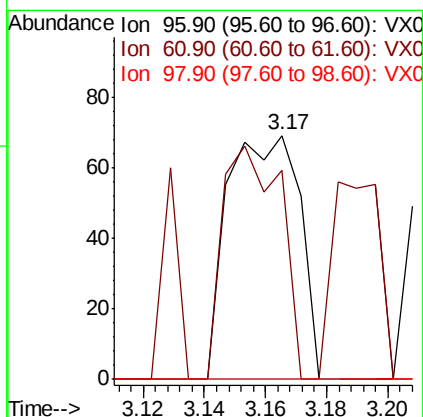
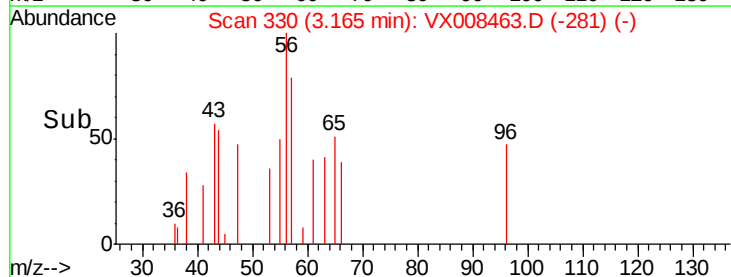
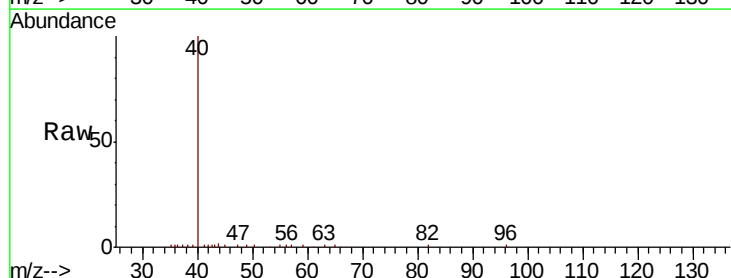
Instrument :
MSVOA_X
ClientSampled :
MW-5

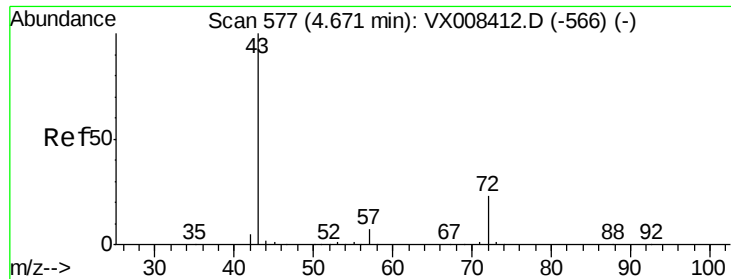
Tot Ion: 84 Resp: 967
Ion Ratio Lower Upper
84 100
49 126.2 110.6 165.8
51 30.4 33.9 50.9#
86 73.8 52.2 78.2



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Tgt Ion: 96 Resp: 112
Ion Ratio Lower Upper
96 100
61 85.5 122.6 184.0#
98 0.0 50.9 76.3#

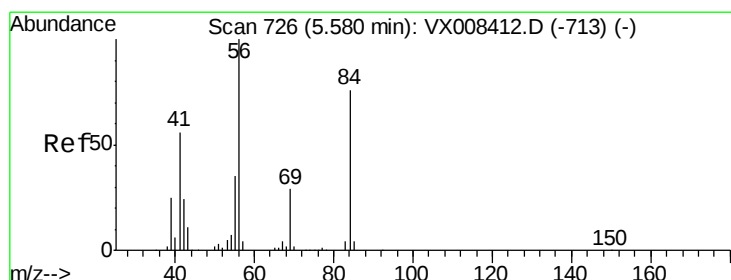
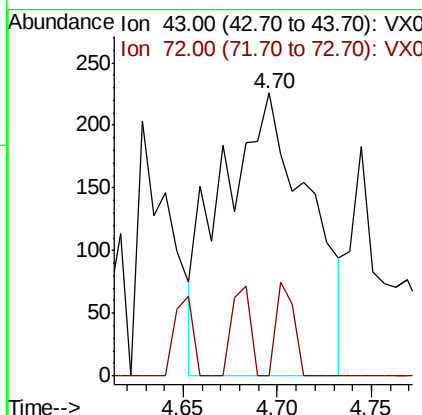
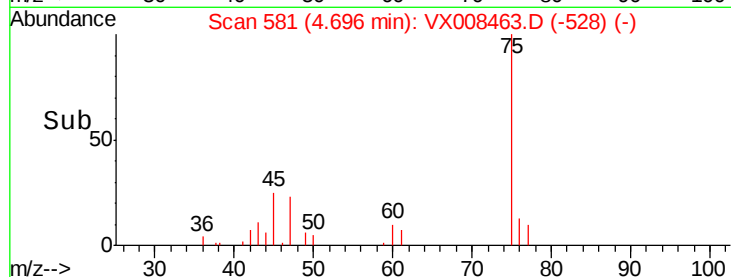
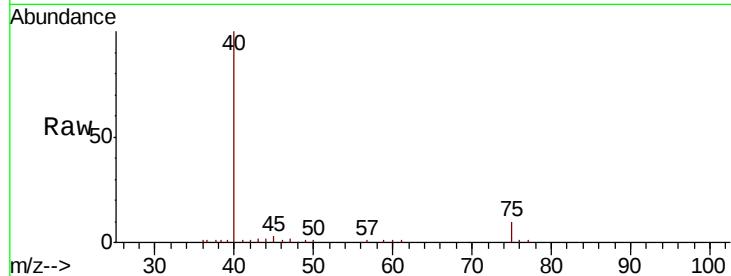




#25
 2-Butanone
 Concen: 0.243 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. 0.02 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

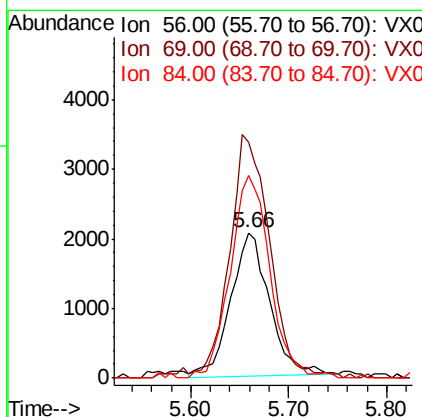
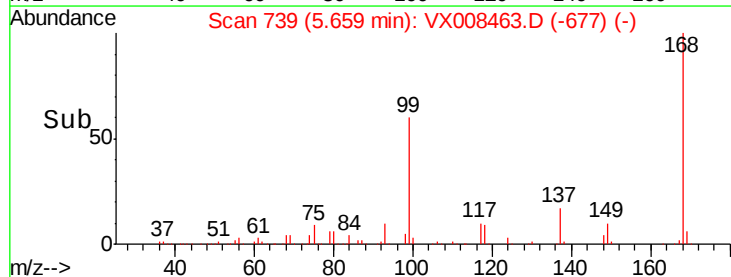
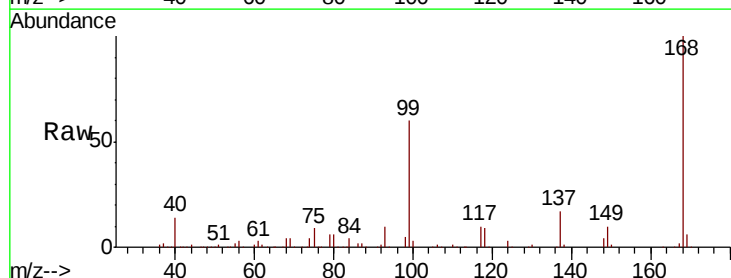
Instrument :
 MSVOA_X
 ClientSampled :
 MW-5

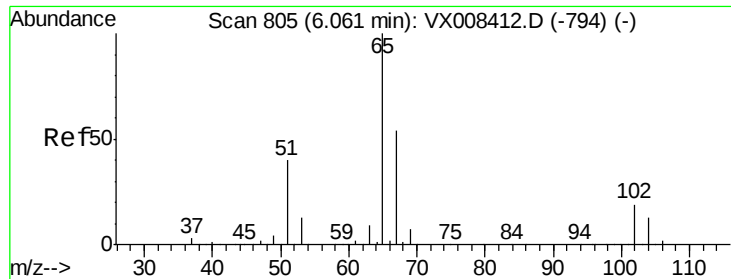
Tot Ion: 43 Resp: 730
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 28.0#



#31
 Cyclohexane
 Concen: 0.986 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

Tgt Ion: 56 Resp: 5668
 Ion Ratio Lower Upper
 56 100
 69 162.8 23.2 34.8#
 84 143.1 60.7 91.1#

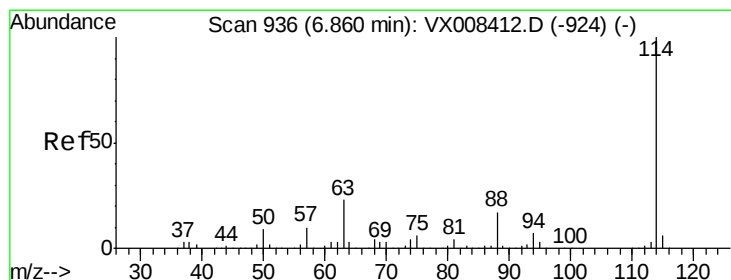
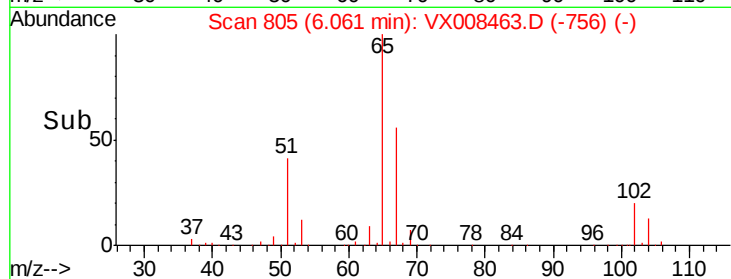
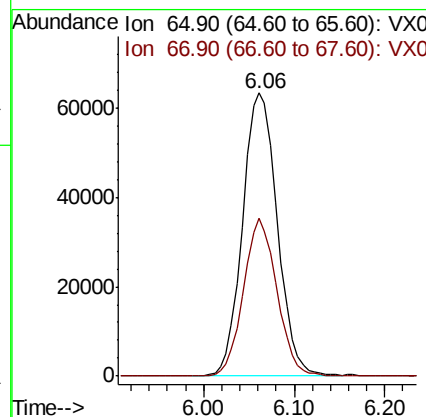
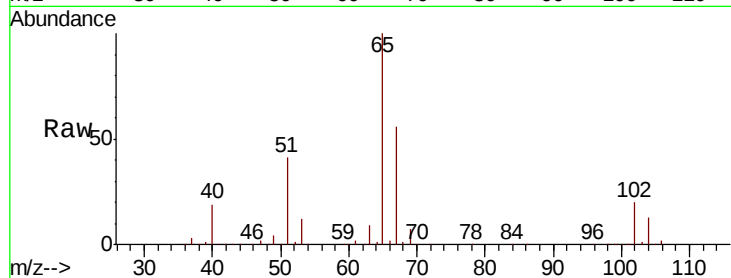




#33
 1,2-Dichloroethane-d4
 Concen: 46.813 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

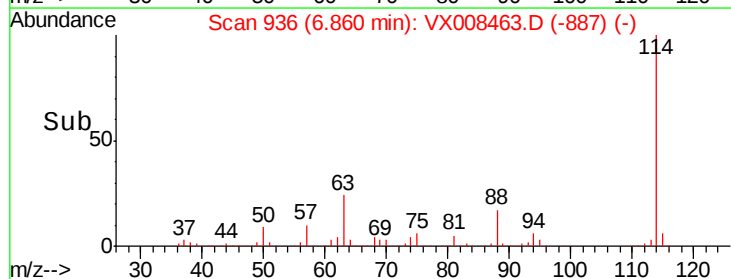
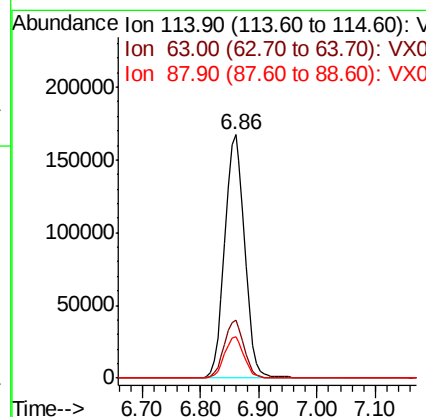
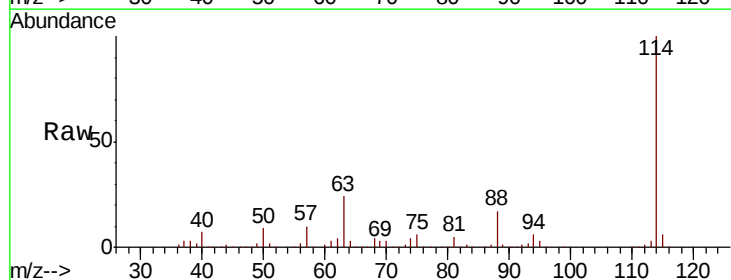
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

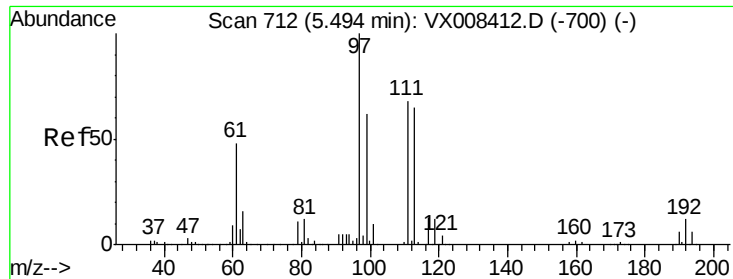
Tot Ion: 65 Resp: 167896
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

Tgt Ion: 114 Resp: 399301
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 46.4
 88 16.9 0.0 33.2

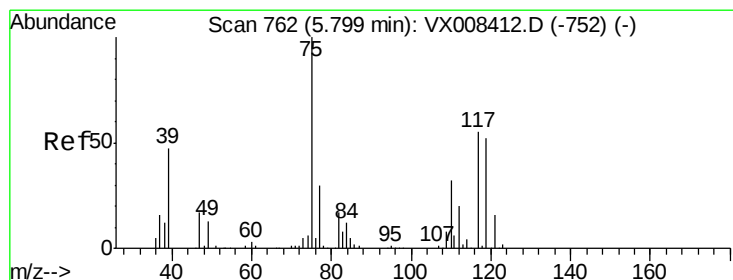
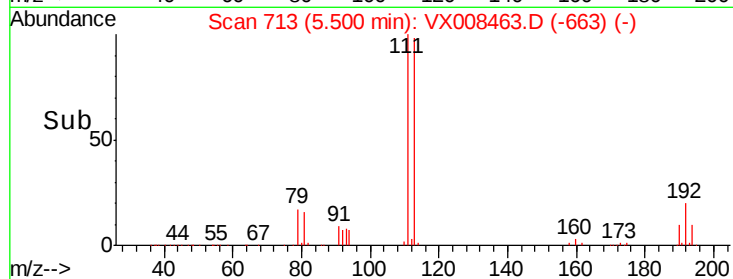
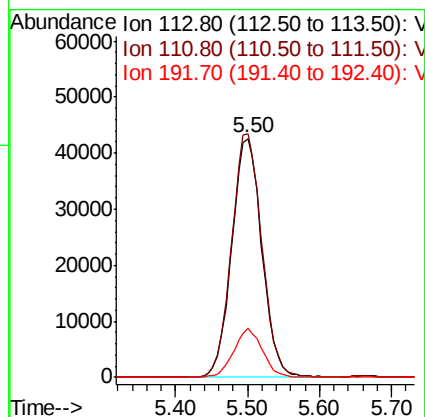
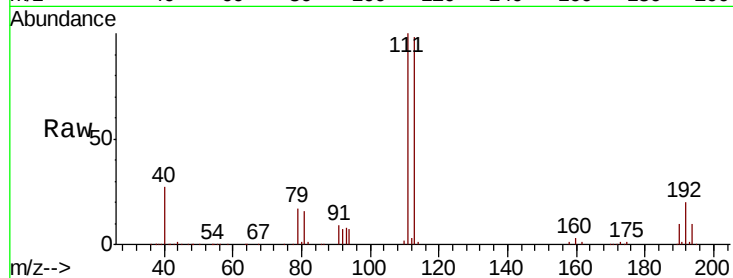




#35
 Dibromofluoromethane
 Concen: 47.463 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

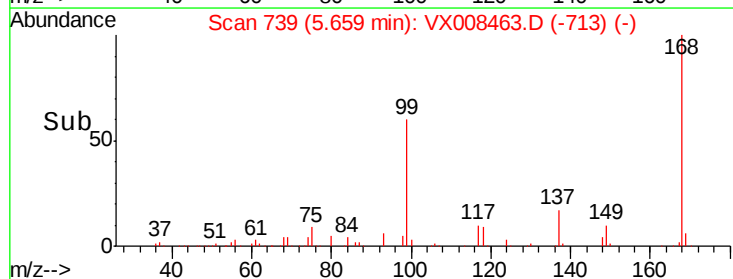
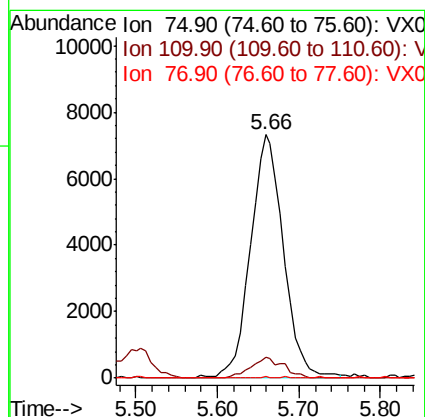
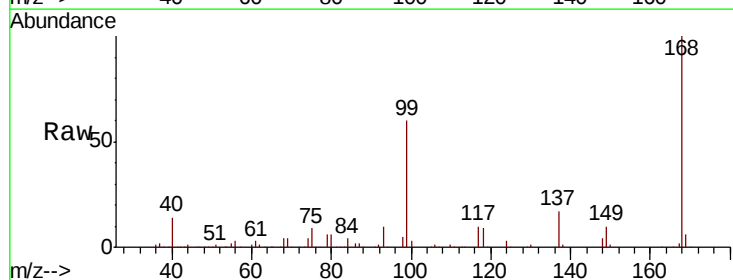
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

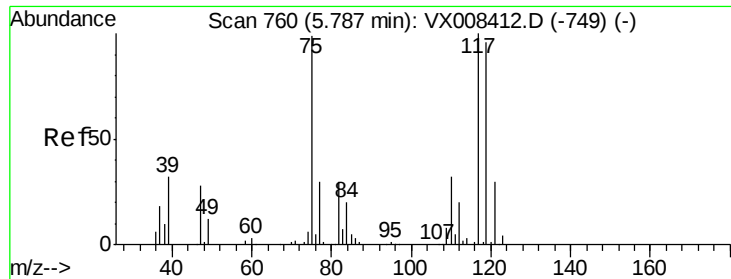
Tot Ion:113 Resp: 123577
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.0 124.4
 192 19.6 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.859 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008463.D
 Acq: 26 Mar 2019 18:45

Tgt Ion: 75 Resp: 20686
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.1 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.490 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampled :

MW-5

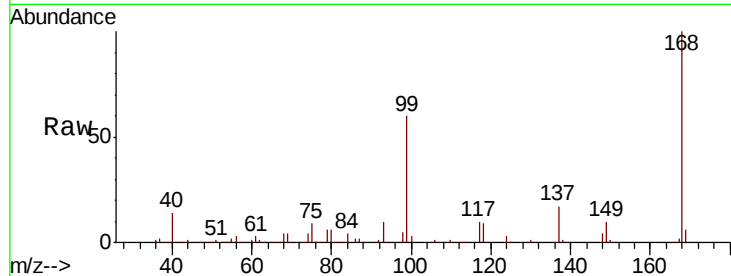
Tot Ion:117 Resp: 23060

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

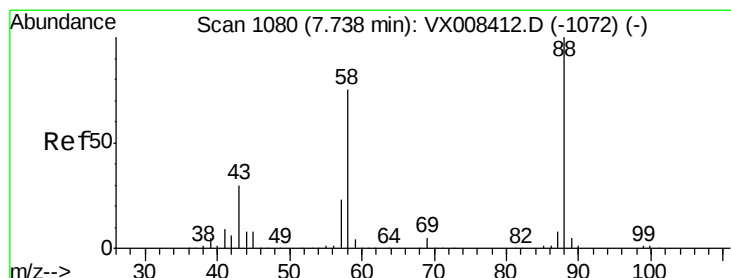
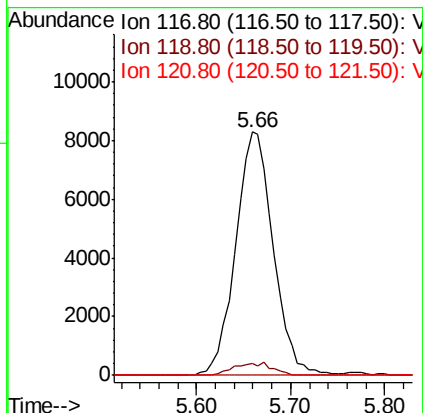
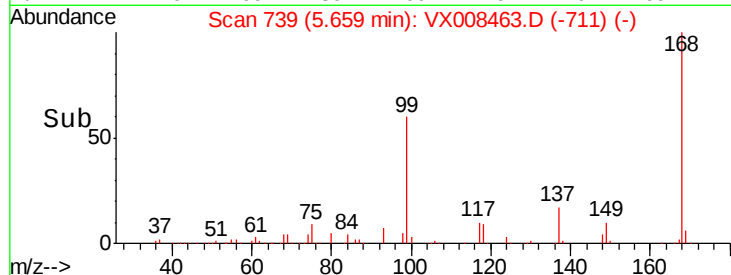
121 0.0 24.3 36.5#



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: 0.216 ug/l

RT: 7.99 min Scan# 1122

Delta R.T. 0.26 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

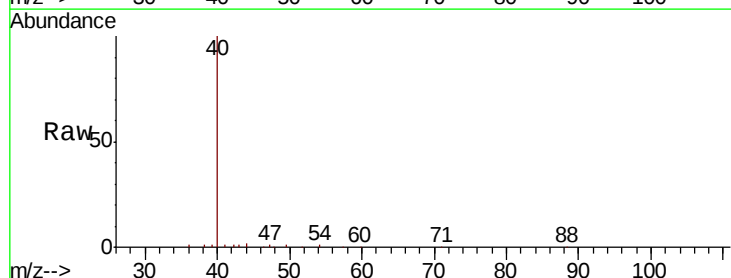
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 505.3 28.6 43.0#

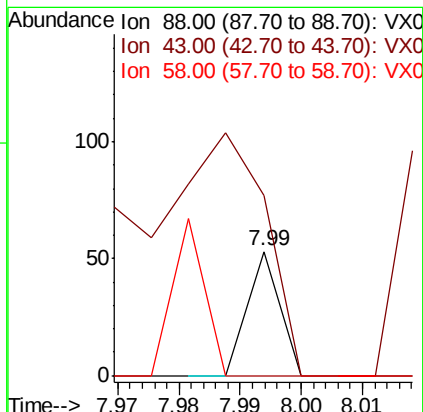
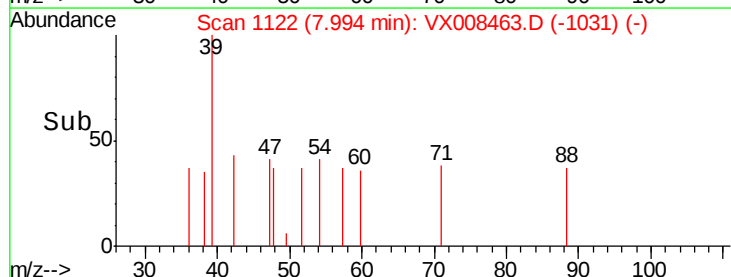
58 126.3 63.0 94.4#

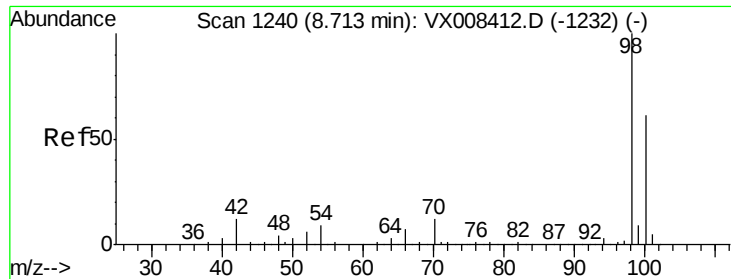


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

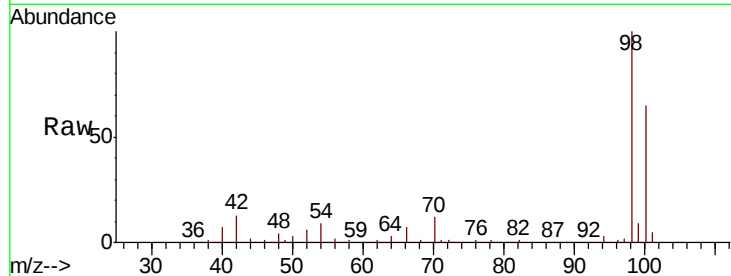




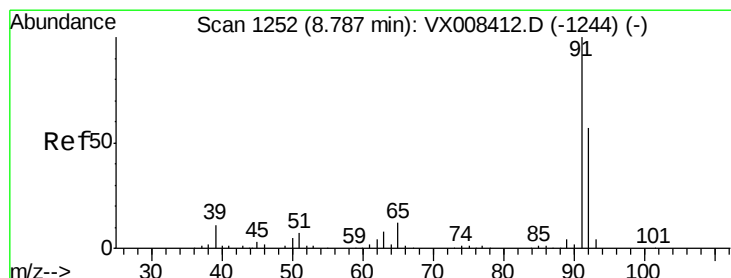
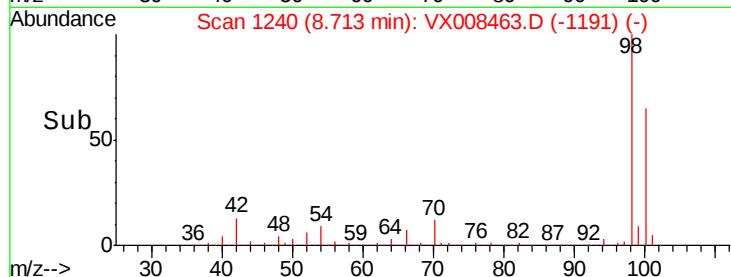
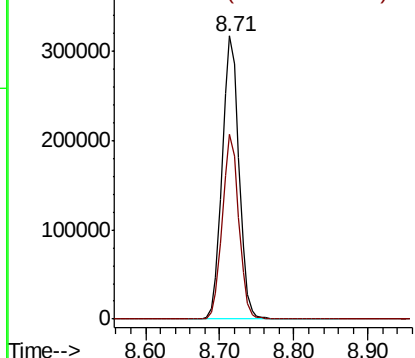
#50
Toluene-d8
Concen: 48.106 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :
MW-5

Tot Ion: 98 Resp: 500819
Ion Ratio Lower Upper
98 100
100 63.6 51.1 76.7

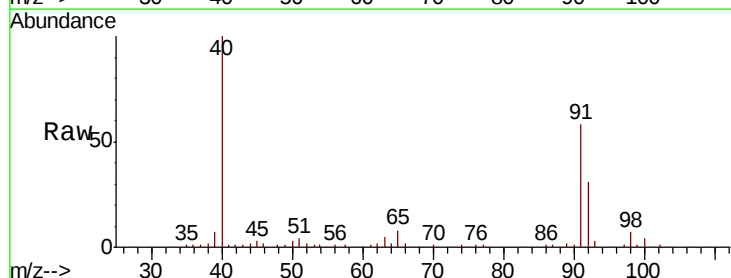


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

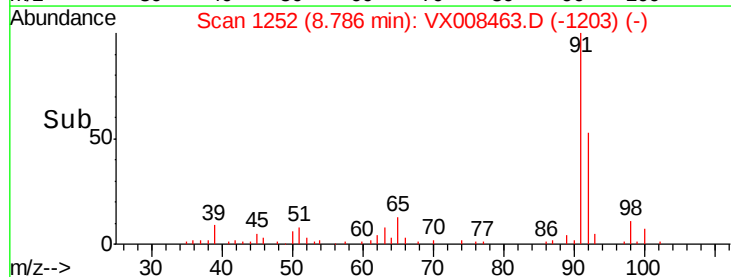
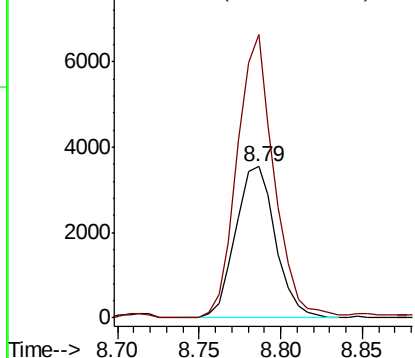


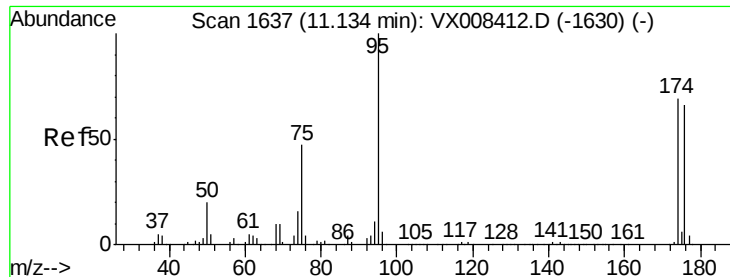
#52
Toluene
Concen: 0.794 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Tgt Ion: 92 Resp: 6049
Ion Ratio Lower Upper
92 100
91 173.5 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VX0
Ion 91.00 (90.70 to 91.70): VX0

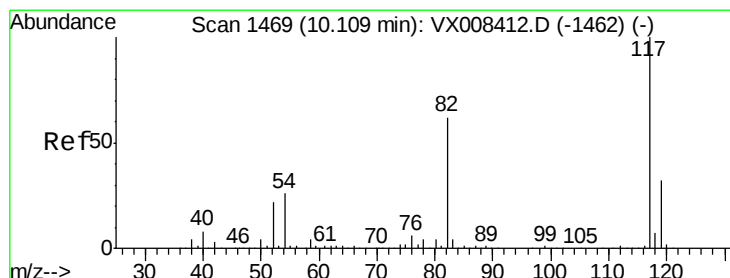
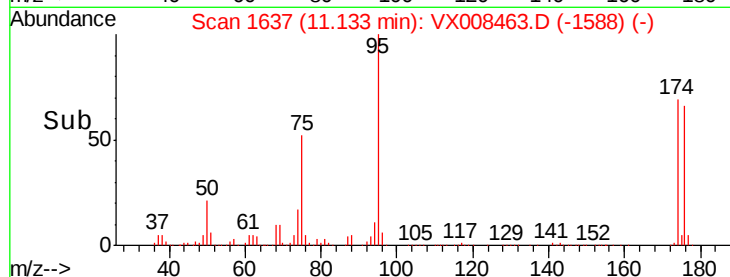
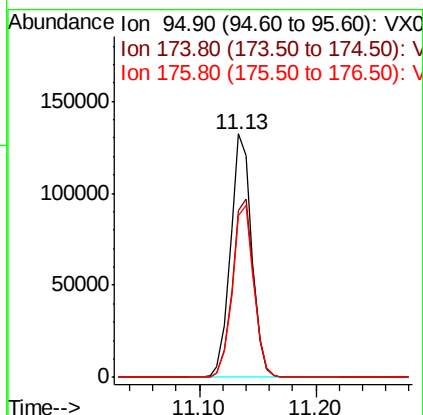
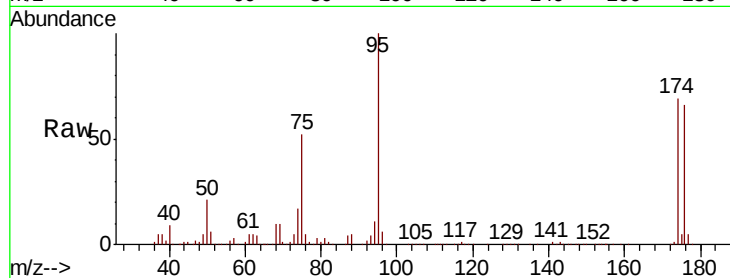




#62
4-Bromofluorobenzene
Concen: 43.379 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

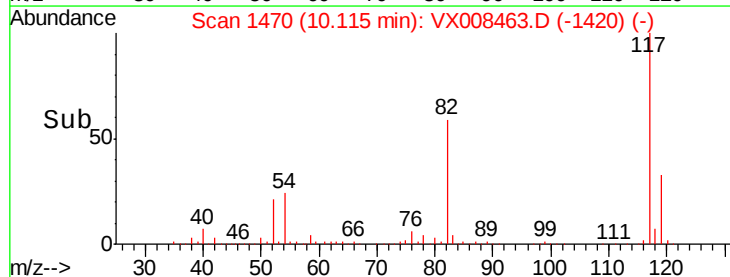
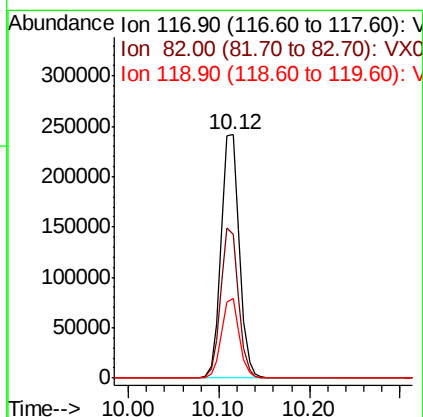
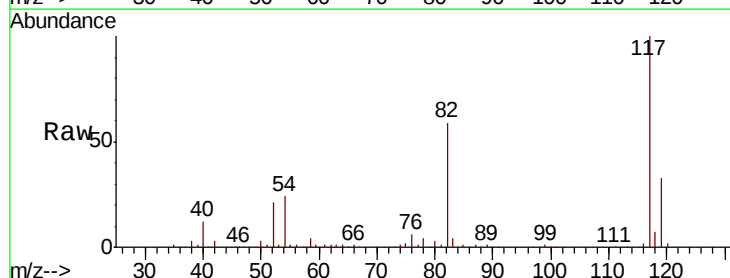
Instrument :
MSVOA_X
ClientSampleId :
MW-5

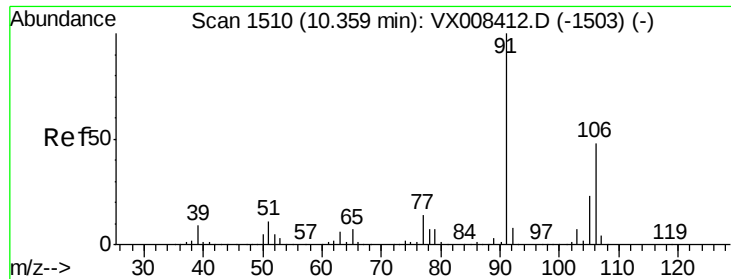
Tot Ion: 95 Resp: 167352
Ion Ratio Lower Upper
95 100
174 74.5 0.0 147.2
176 71.4 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Tgt Ion: 117 Resp: 339898
Ion Ratio Lower Upper
117 100
82 58.9 49.4 74.2
119 32.7 25.4 38.0

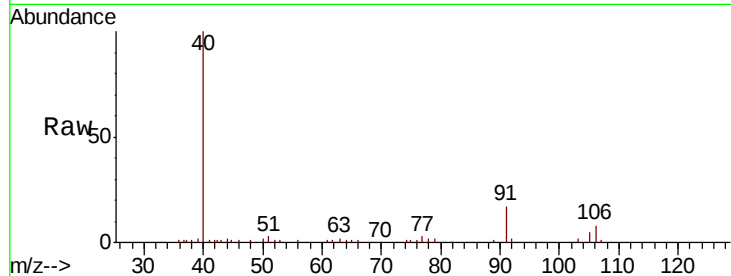




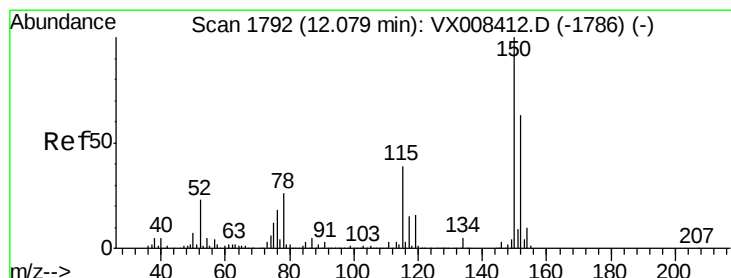
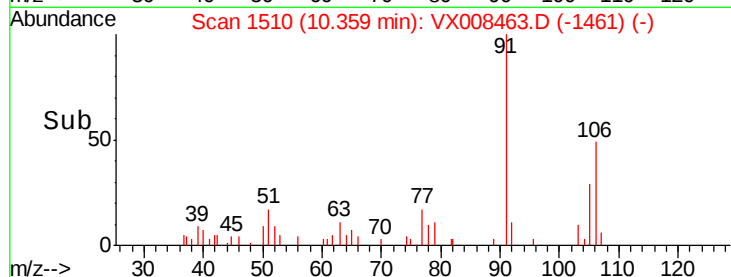
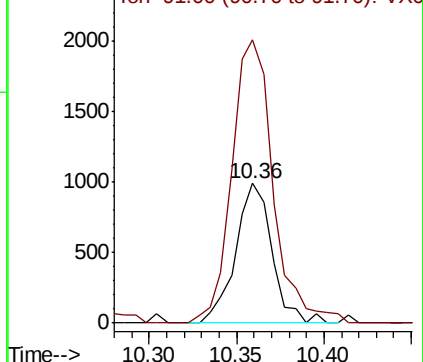
#68
m/p-Xvlenes
Concen: 0.283 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :
MW-5

Tot Ion:106 Resp: 1436
Ion Ratio Lower Upper
106 100
91 229.5 168.6 253.0

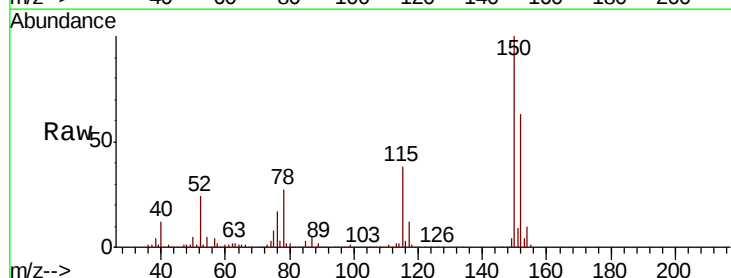


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

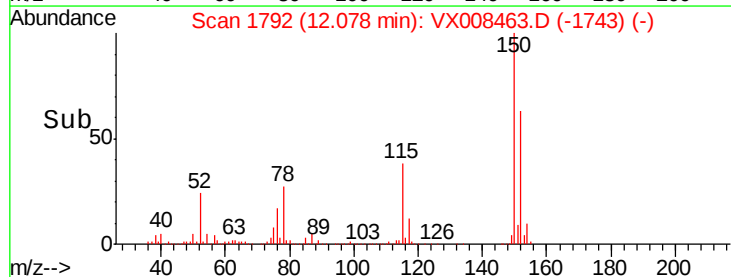
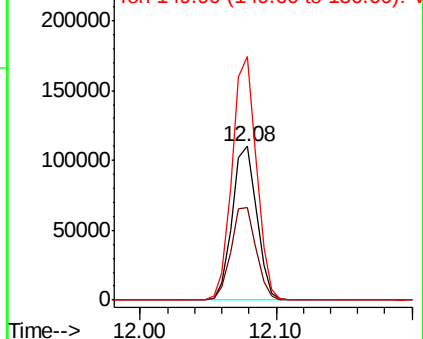


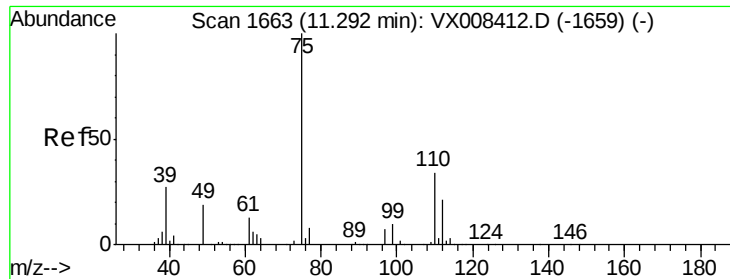
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008463.D
Acq: 26 Mar 2019 18:45

Tgt Ion:152 Resp: 138632
Ion Ratio Lower Upper
152 100
115 61.5 43.5 130.5
150 156.8 0.0 348.8



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: 20.768 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

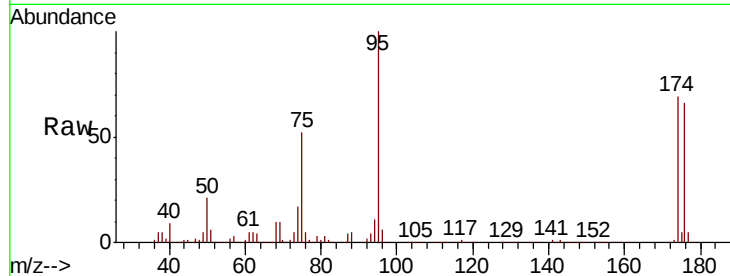
MW-5

Tot Ion: 75 Resp: 85592

Ion Ratio Lower Upper

75 100

77 1.3 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

60000

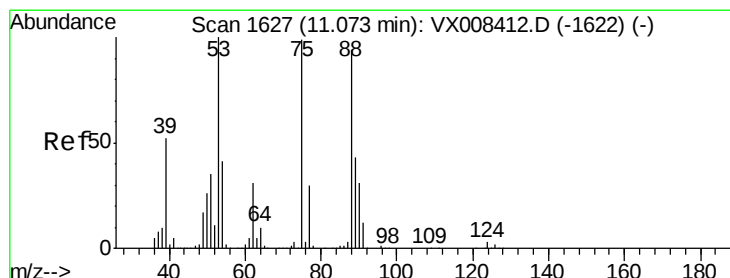
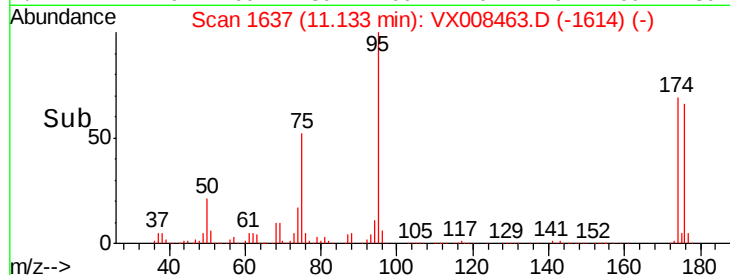
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.516 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008463.D

Acq: 26 Mar 2019 18:45

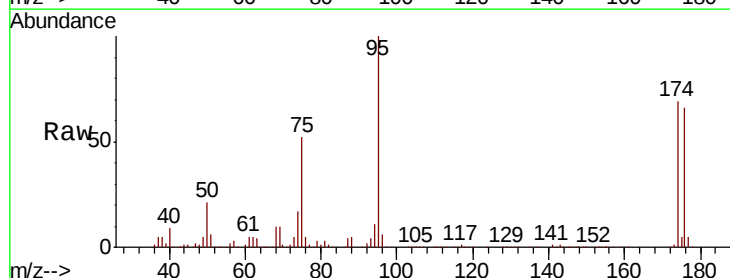
Tgt Ion: 75 Resp: 85592

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#



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

11.13

80000

60000

40000

20000

0

Time-->

11.10 11.20

