

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009783.D
 Acq On : 22 May 2019 06:10
 Operator : JC/SP
 Sample : K2953-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-17D_R2

Quant Time: May 22 07:14:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	173577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	278514	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	249748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	108336	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	117753	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	5.50	113	85721	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
50) Toluene-d8	8.71	98	352589	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
62) 4-Bromofluorobenzene	11.13	95	117667	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

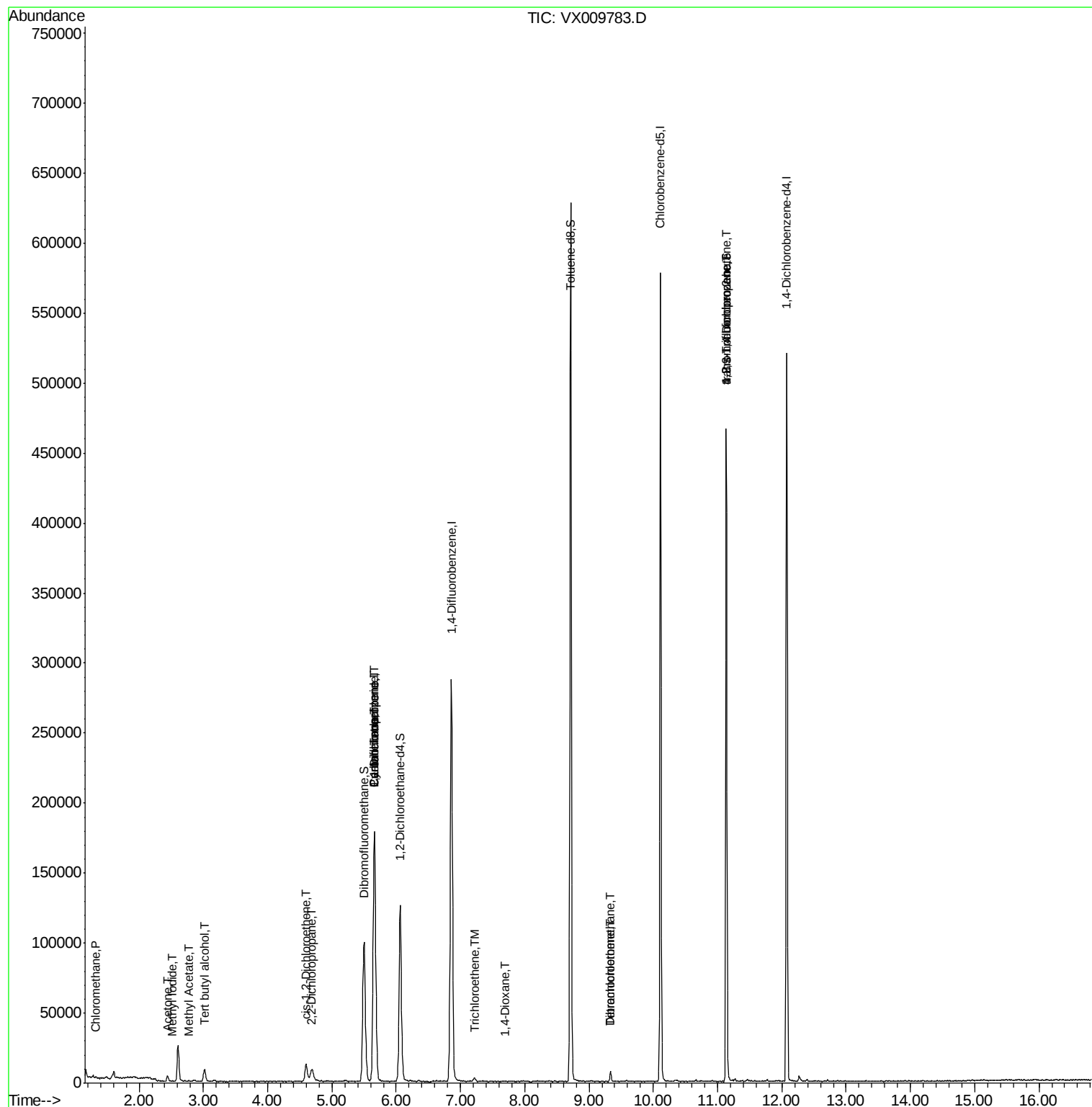
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1044	0.478	ug/l #	82
10) Methyl Iodide	2.51	142	19	4.603	ug/l #	42
11) Tert butyl alcohol	3.02	59	5804	10.582	ug/l #	81
16) Acetone	2.44	43	4625	3.635	ug/l	99
18) Methyl Acetate	2.77	43	668	0.221	ug/l #	73
26) 2,2-Dichloropropane	4.68	77	908	0.324	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	7685	3.645	ug/l	89
28) Bromochloromethane	5.02	49	64	Below Cal	#	20
31) Cyclohexane	5.66	56	4077	1.164	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13812	5.336	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16650	7.080	ug/l #	15
44) Trichloroethene	7.21	130	1077	0.556	ug/l	98
49) 1,4-Dioxane	7.70	88	19	0.327	ug/l #	1
60) Dibromochloromethane	9.34	129	1315	0.678	ug/l #	11
64) Tetrachloroethene	9.34	164	1440	0.841	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	61251	24.374	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61251	62.363	ug/l #	10

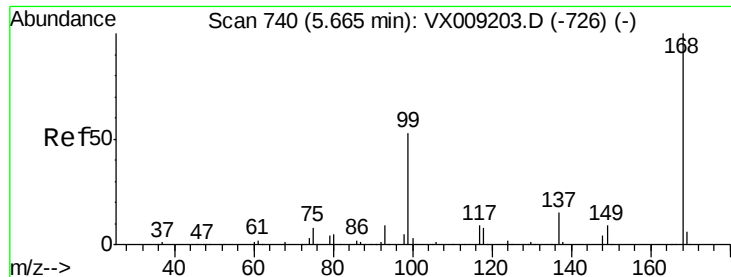
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

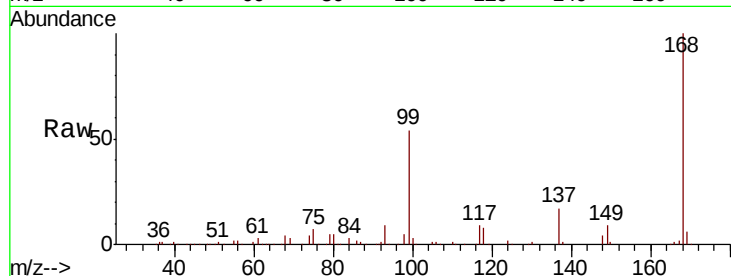
MW-17D_R2

Tot Ion:168 Resp: 173577

Ion Ratio Lower Upper

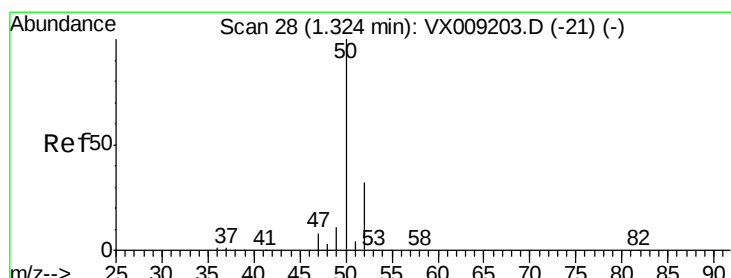
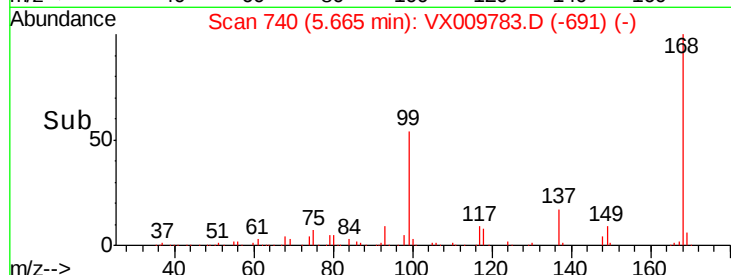
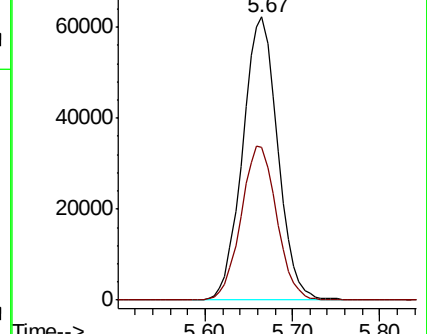
168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.478 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009783.D

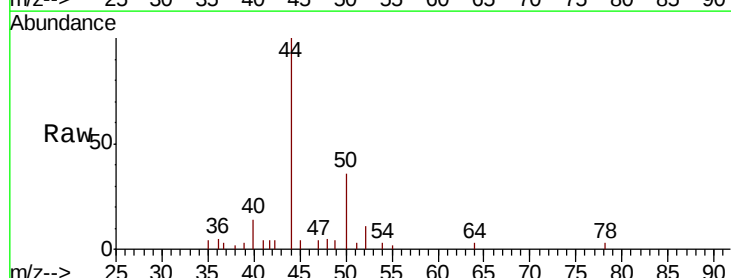
Acq: 22 May 2019 06:10

Tgt Ion: 50 Resp: 1044

Ion Ratio Lower Upper

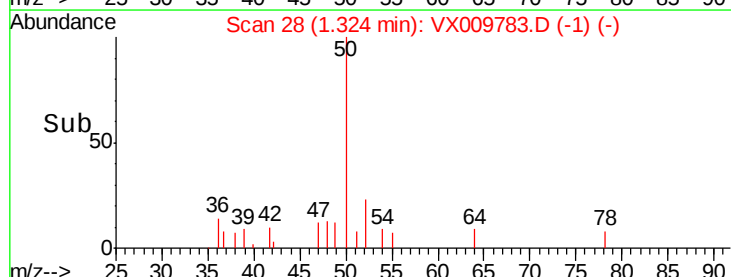
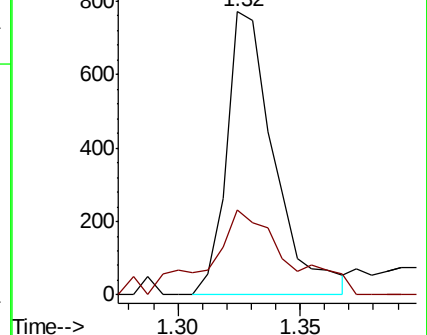
50 100

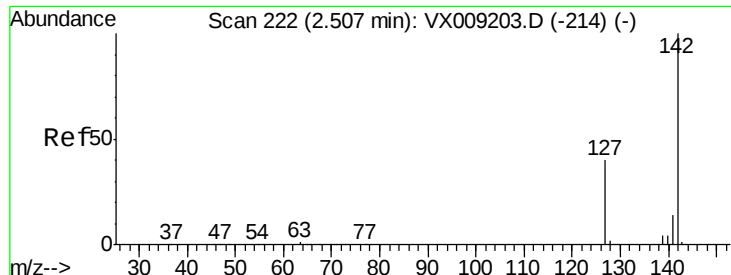
52 22.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

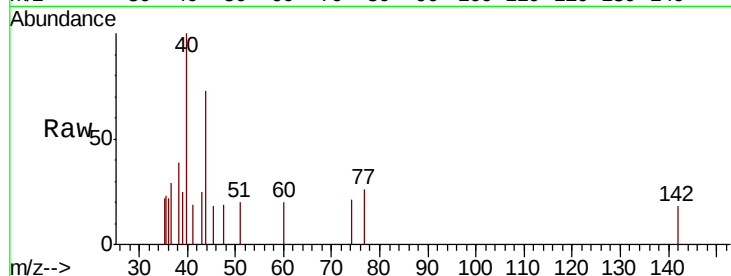




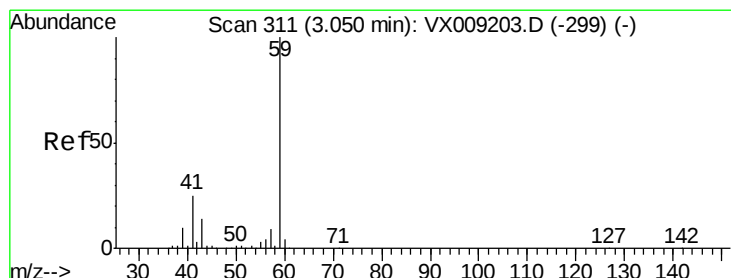
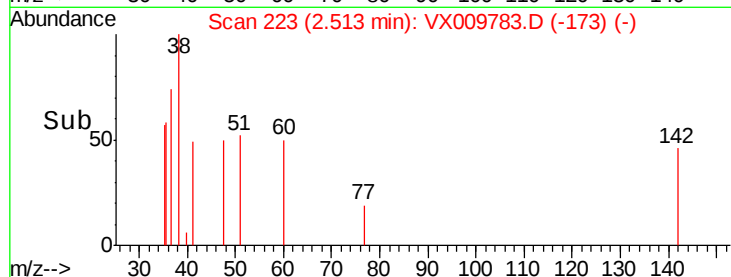
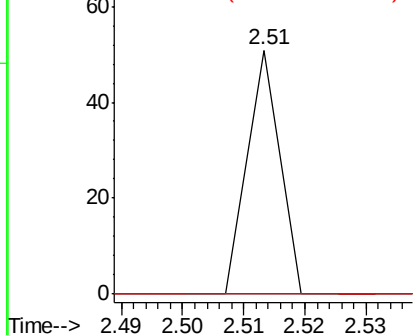
#10
Methvl Iodide
Concen: 4.603 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009783.D
Acq: 22 May 2019 06:10

Instrument :
MSVOA_X
ClientSampleId :
MW-17D_R2

Tot Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

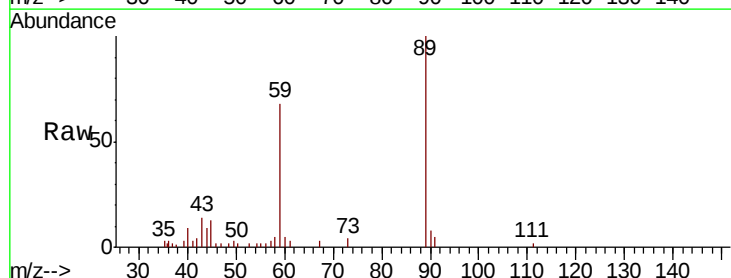


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

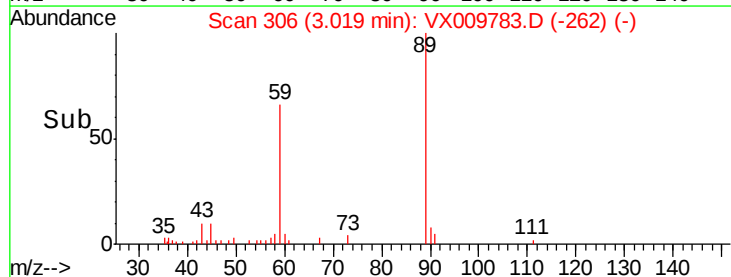
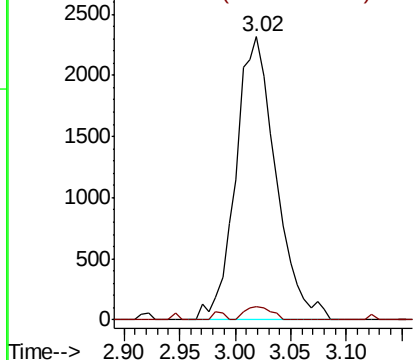


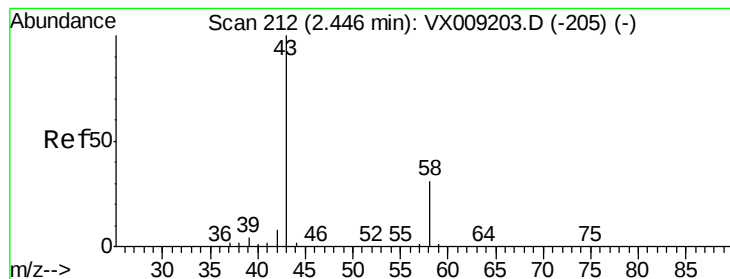
#11
Tert butyl alcohol
Concen: 10.582 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009783.D
Acq: 22 May 2019 06:10

Tgt Ion: 59 Resp: 5804
Ion Ratio Lower Upper
59 100
57 3.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 3.635 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampled :

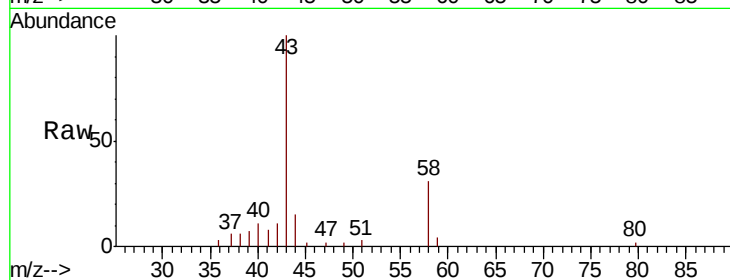
MW-17D_R2

Tot Ion: 43 Resp: 4625

Ion Ratio Lower Upper

43 100

58 31.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

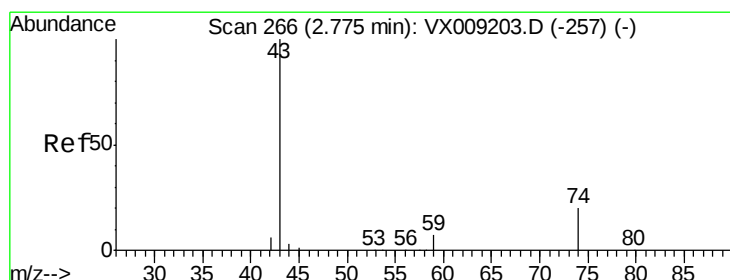
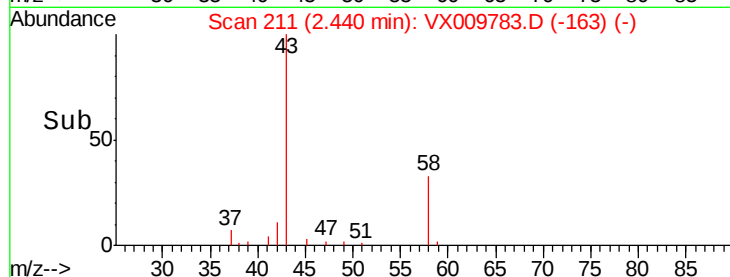
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX009783.D

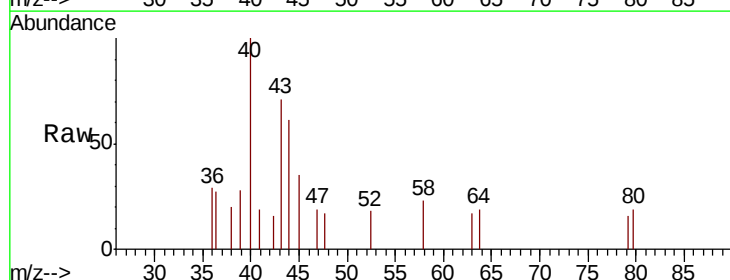
Acq: 22 May 2019 06:10

Tgt Ion: 43 Resp: 668

Ion Ratio Lower Upper

43 100

74 7.8 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.77

250

200

150

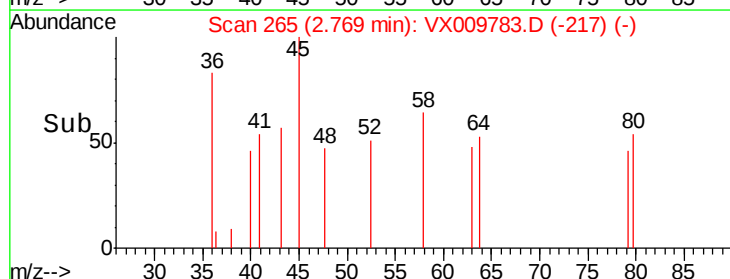
100

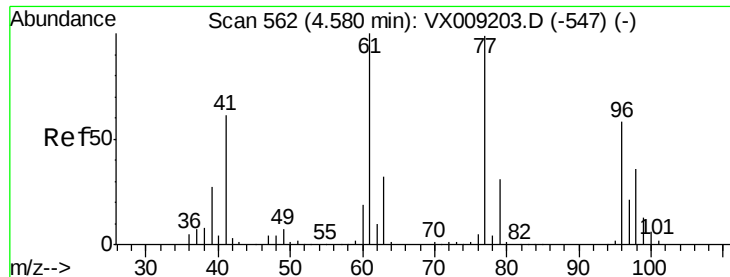
50

0

Time-->

2.70 2.75 2.80





#26

2,2-Dichloropropane

Concen: 0.324 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.10 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampled :

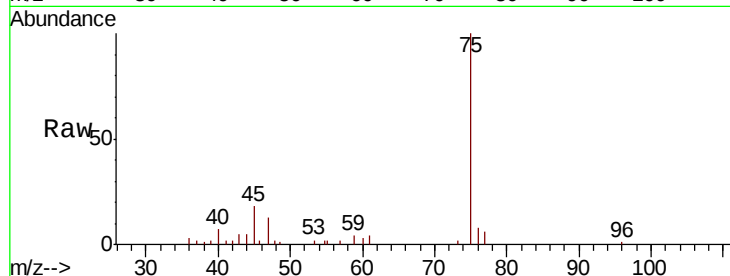
MW-17D_R2

Tot Ion: 77 Resp: 908

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.4#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.68

250

200

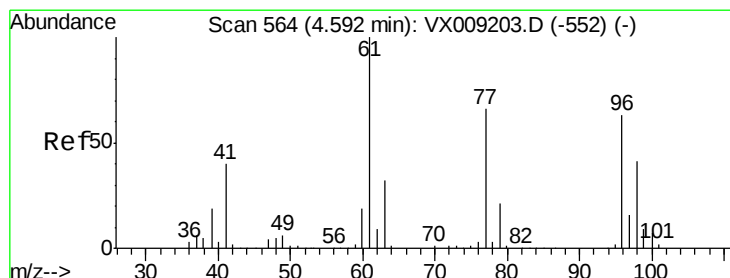
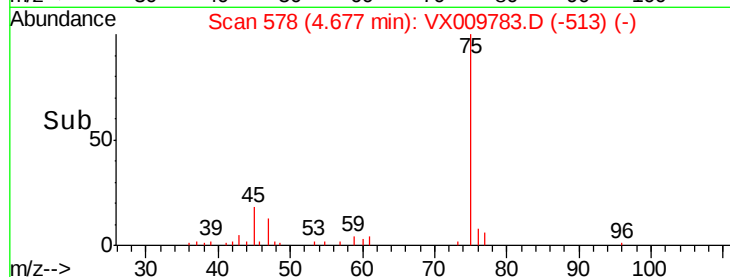
150

100

50

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 3.645 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

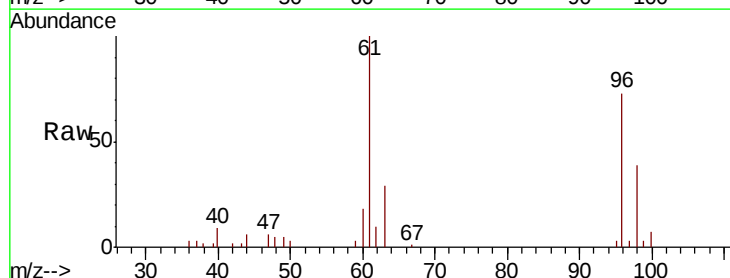
Tgt Ion: 96 Resp: 7685

Ion Ratio Lower Upper

96 100

61 140.9 0.0 324.0

98 65.3 0.0 130.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

4.59

5000

4000

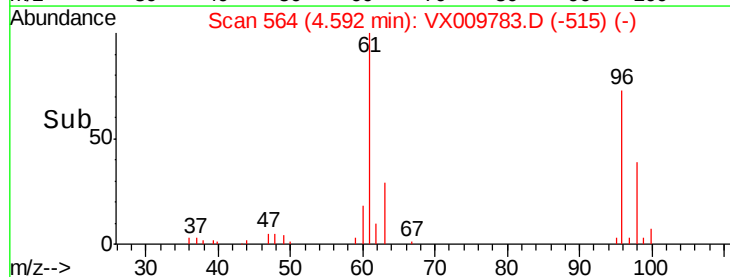
3000

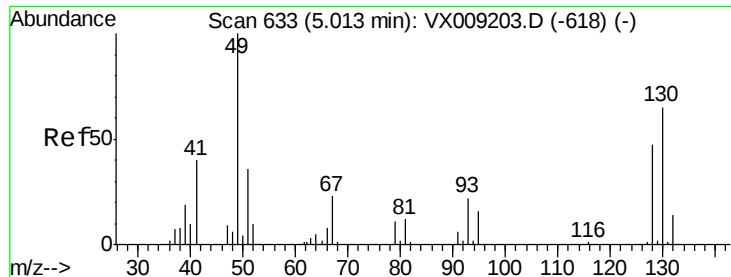
2000

1000

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

MW-17D_R2

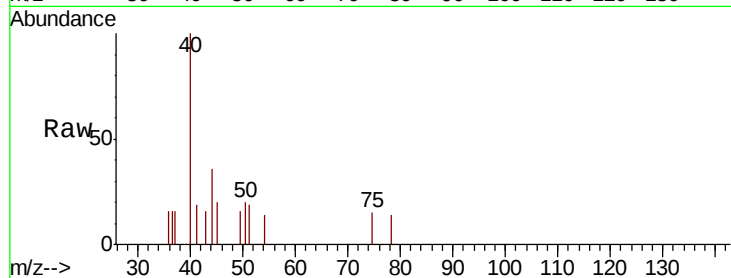
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

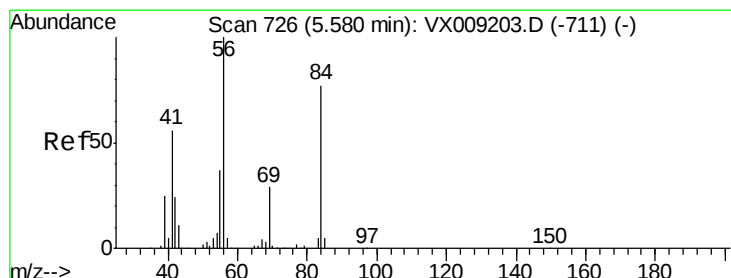
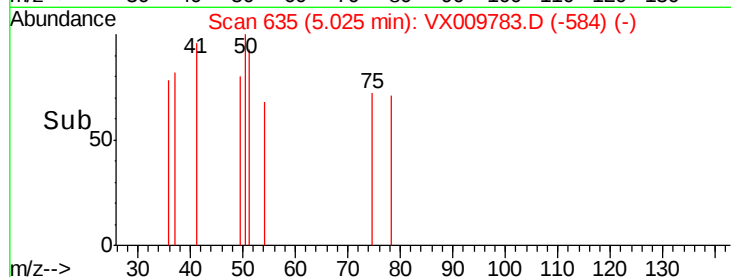
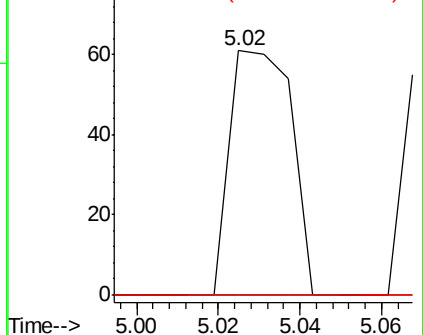
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.164 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

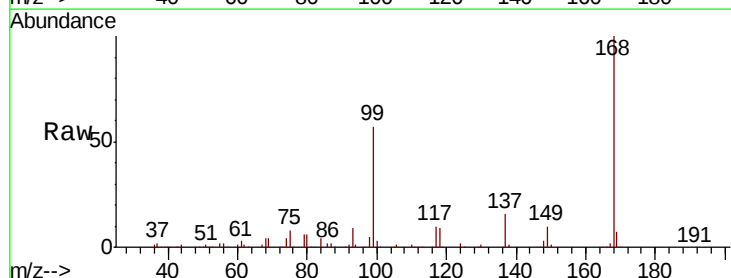
Tgt Ion: 56 Resp: 4077

Ion Ratio Lower Upper

56 100

69 146.6 23.4 35.0#

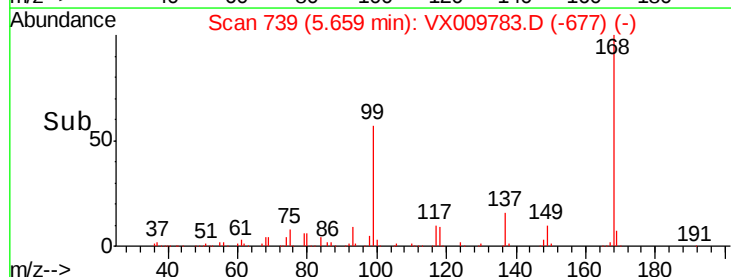
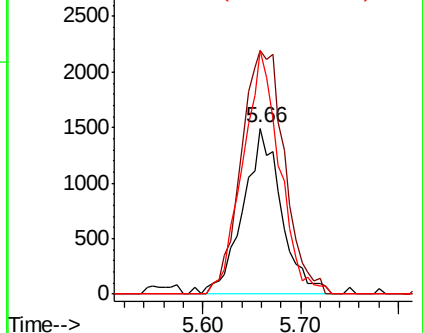
84 146.7 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.695 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

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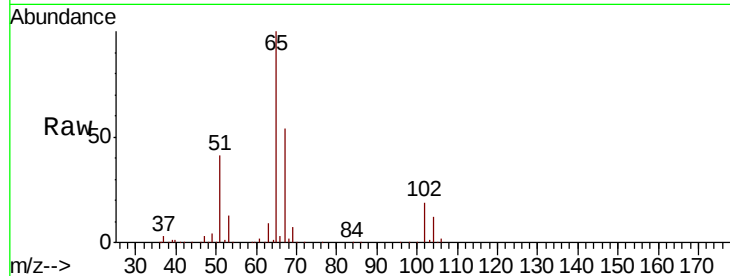
MW-17D_R2

Tot Ion: 65 Resp: 117753

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

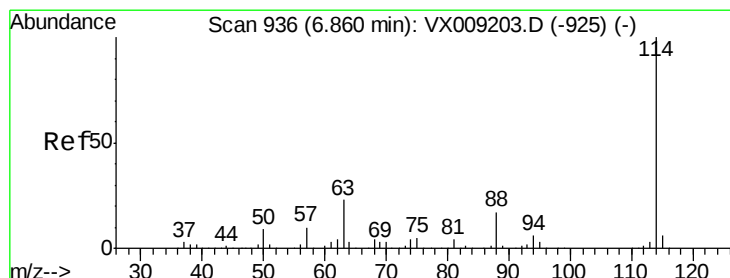
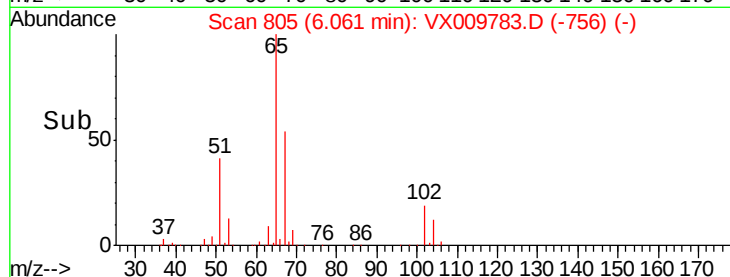
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Tgt Ion: 114 Resp: 278514

Ion Ratio Lower Upper

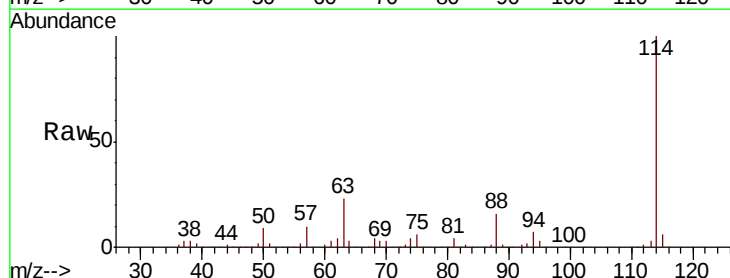
114 100

63 23.3

88 16.3

0.0 45.6

0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

150000

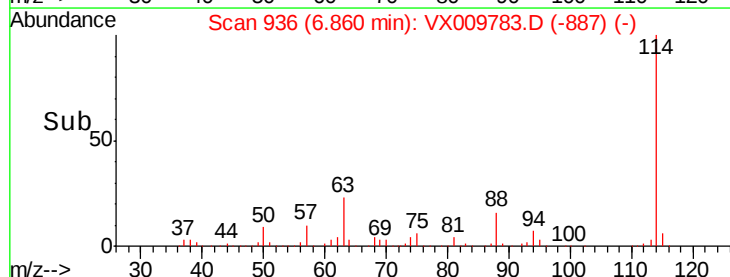
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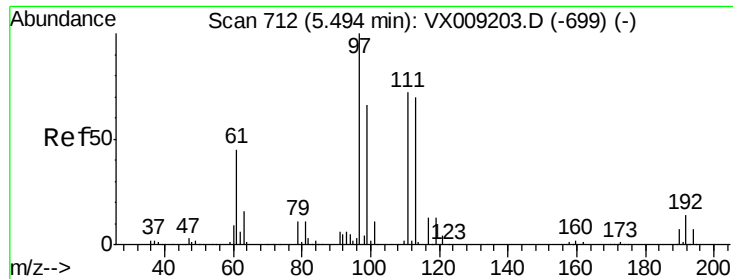
50000

0

Time-->

6.70 6.80 6.90 7.00

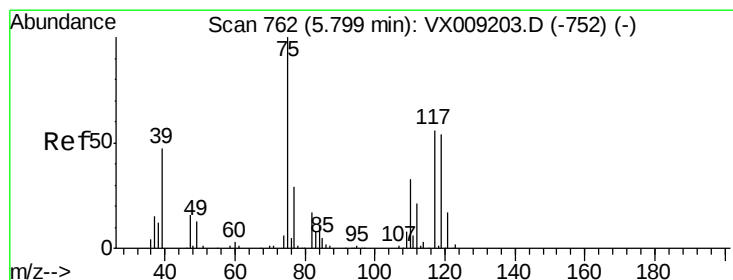
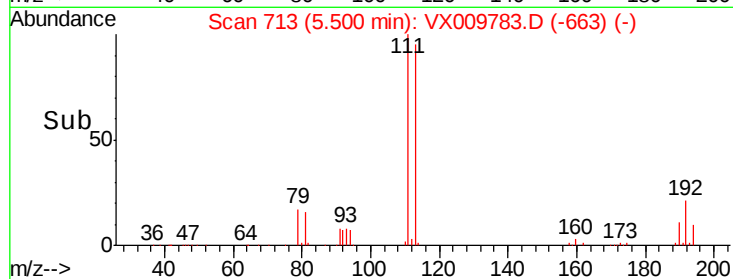
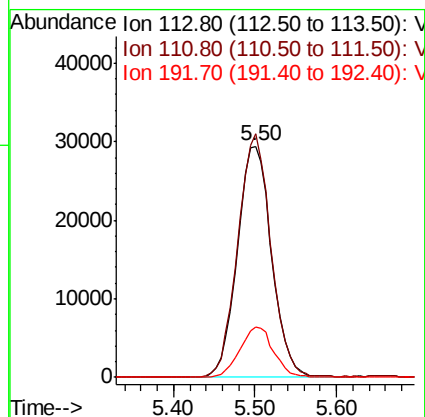
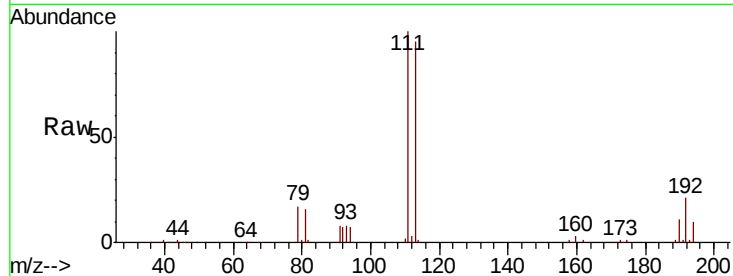




#35
 Dibromofluoromethane
 Concen: 48.960 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009783.D
 Acq: 22 May 2019 06:10

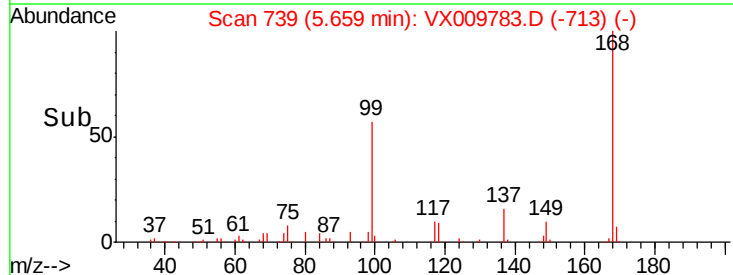
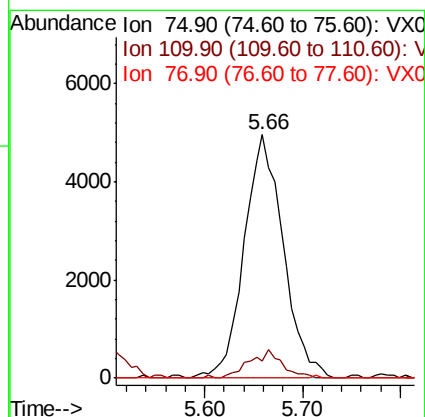
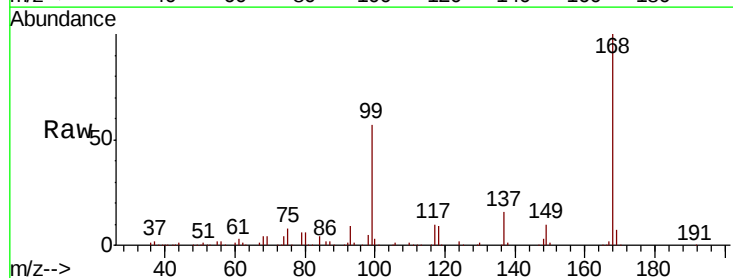
Instrument :
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 MW-17D_R2

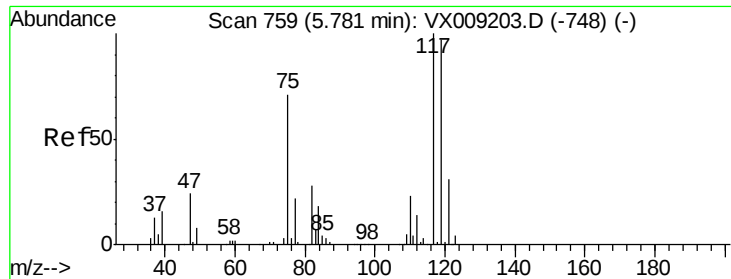
Tot Ion:113 Resp: 85721
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.8 124.2
 192 21.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.336 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009783.D
 Acq: 22 May 2019 06:10

Tgt Ion: 75 Resp: 13812
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.080 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

MW-17D_R2

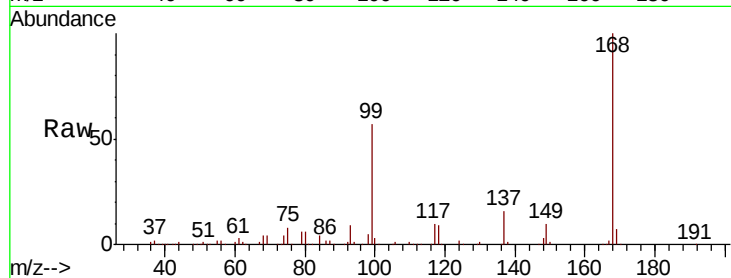
Tot Ion:117 Resp: 16650

Ion Ratio Lower Upper

117 100

119 4.0 77.5 116.3#

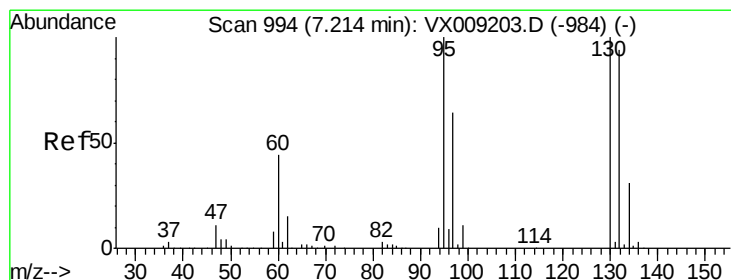
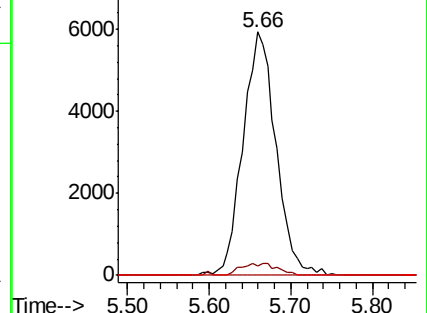
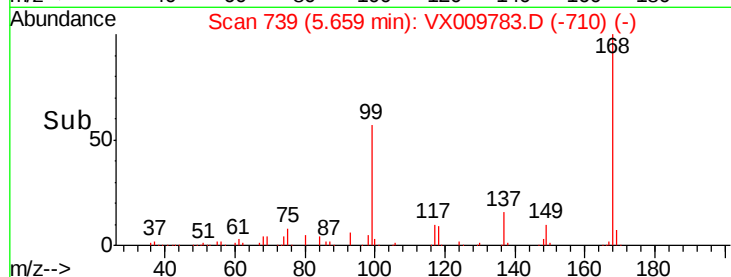
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.556 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009783.D

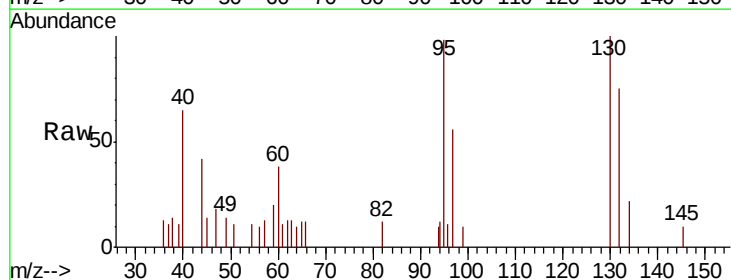
Acq: 22 May 2019 06:10

Tgt Ion:130 Resp: 1077

Ion Ratio Lower Upper

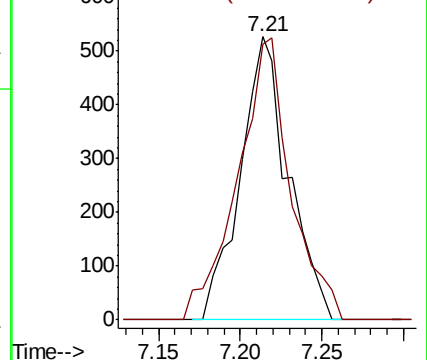
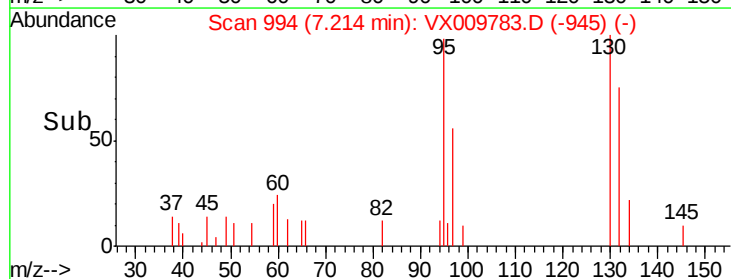
130 100

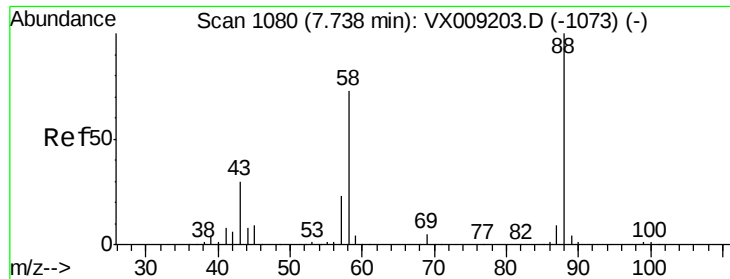
95 97.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.327 ug/l

RT: 7.70 min Scan# 1074

Delta R.T. -0.04 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

MW-17D_R2

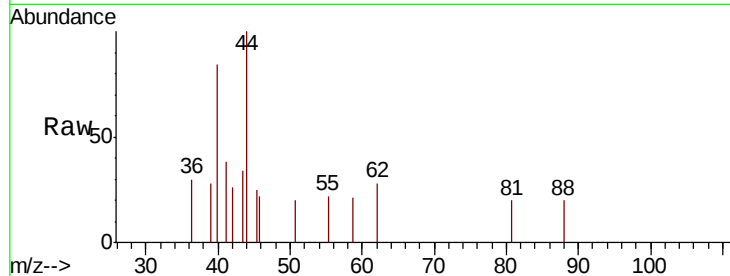
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 636.8 28.6 42.8#

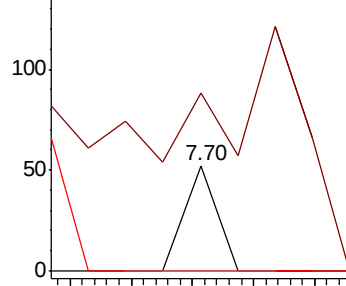
58 0.0 61.7 92.5#



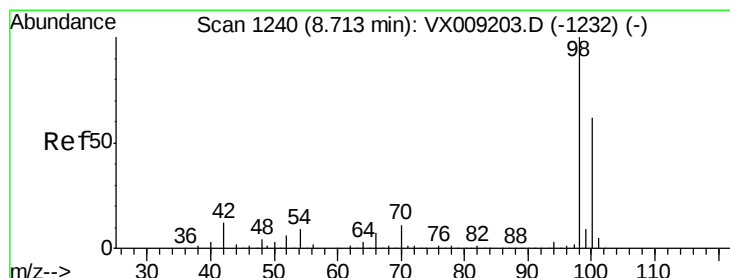
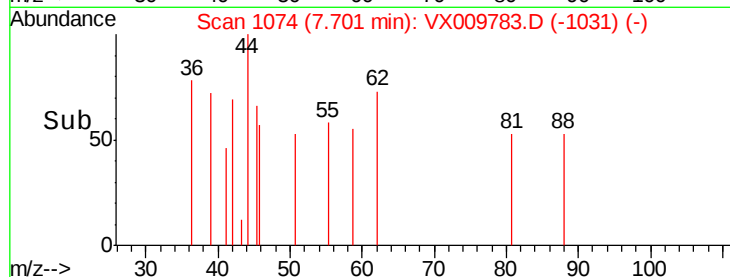
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.881 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009783.D

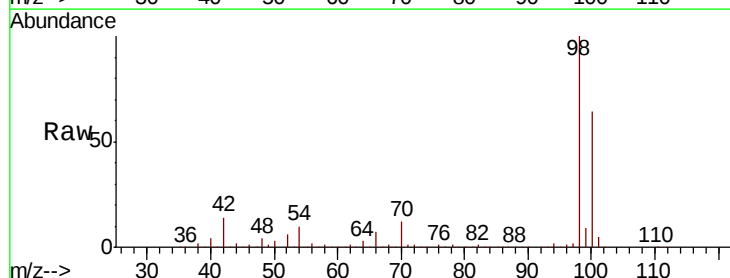
Acq: 22 May 2019 06:10

Tgt Ion: 98 Resp: 352589

Ion Ratio Lower Upper

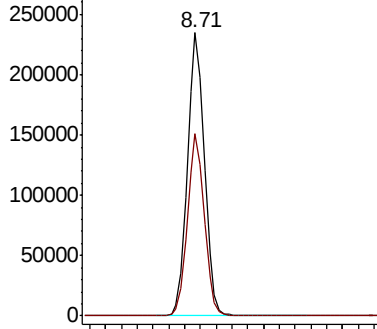
98 100

100 63.9 51.2 76.8

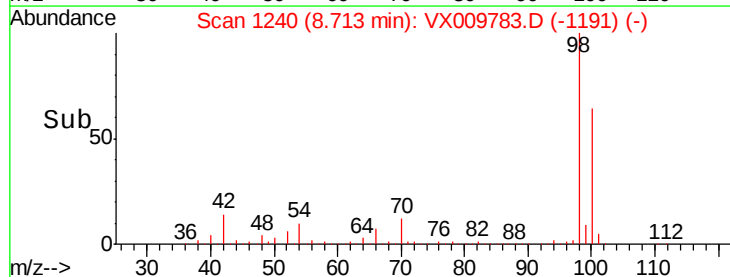


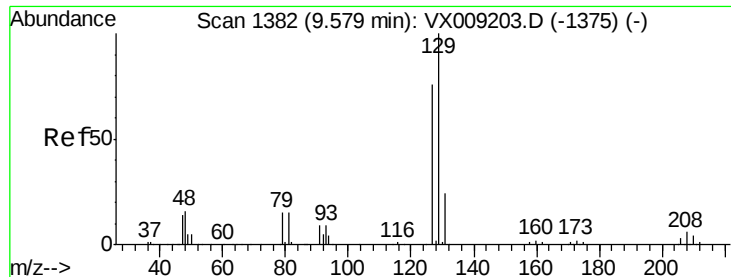
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#60

Dibromochloromethane

Concen: 0.678 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

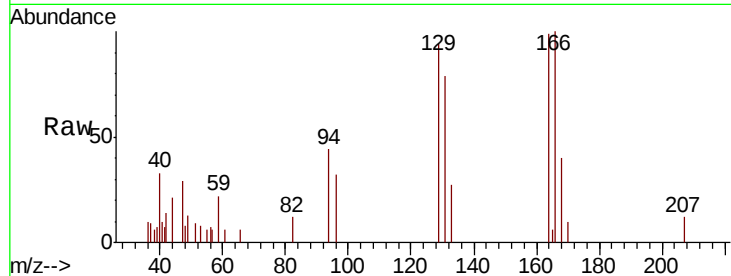
MW-17D_R2

Tot Ion:129 Resp: 1315

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

800

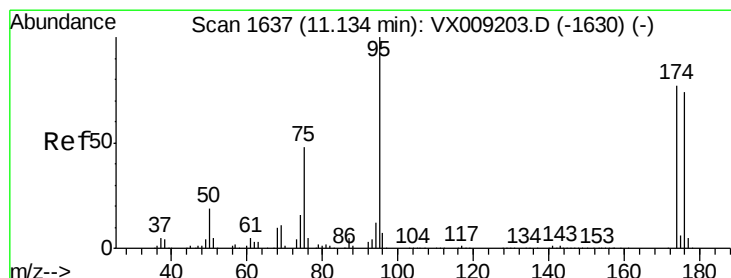
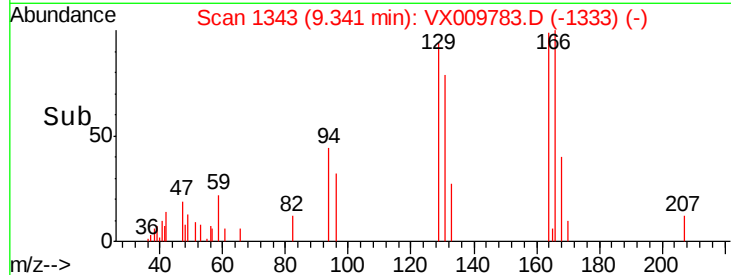
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.812 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

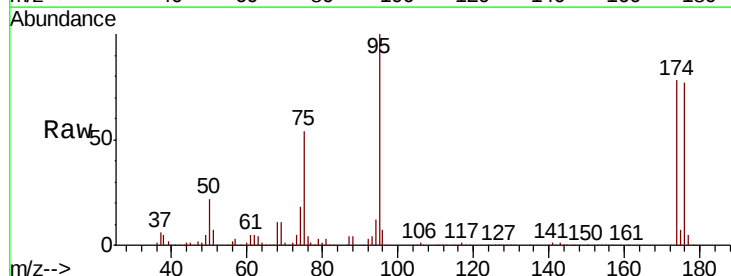
Tgt Ion: 95 Resp: 117667

Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

176 80.4 0.0 159.2



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

11.13

100000

80000

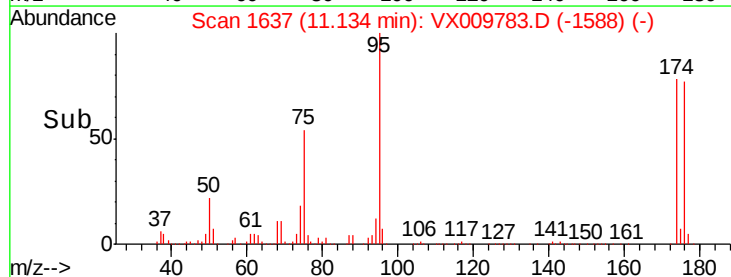
60000

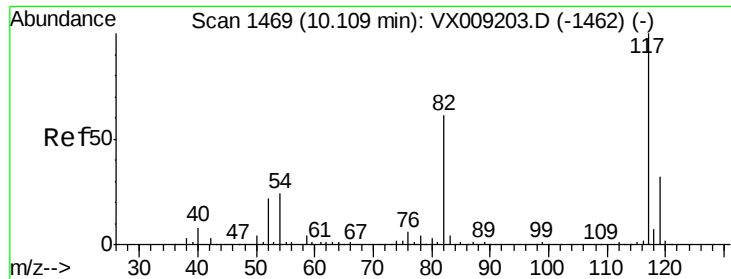
40000

20000

0

Time-->

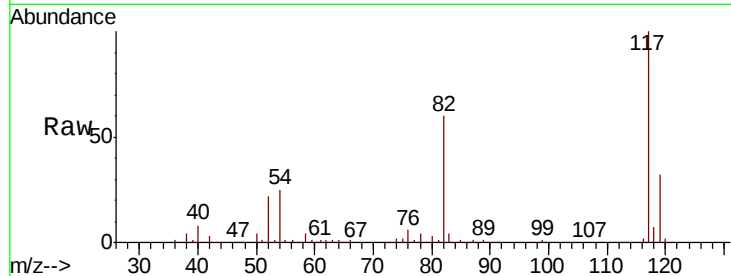




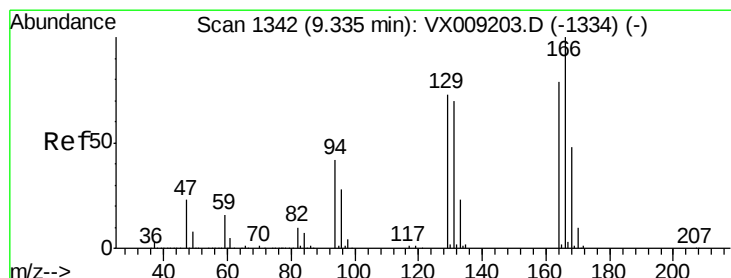
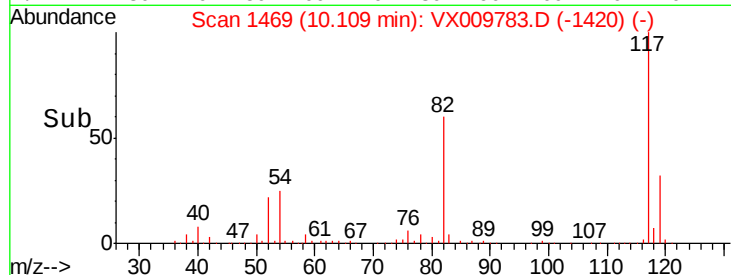
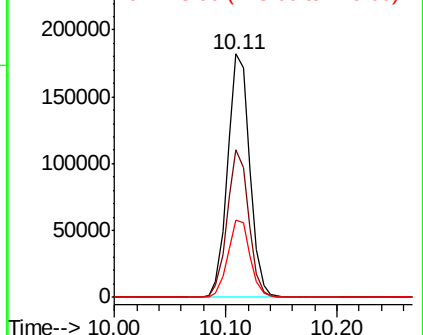
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009783.D
Acq: 22 May 2019 06:10

Instrument :
MSVOA_X
ClientSampleId :
MW-17D_R2

Tot Ion:117 Resp: 249748
Ion Ratio Lower Upper
117 100
82 60.4 48.8 73.2
119 31.9 25.8 38.6

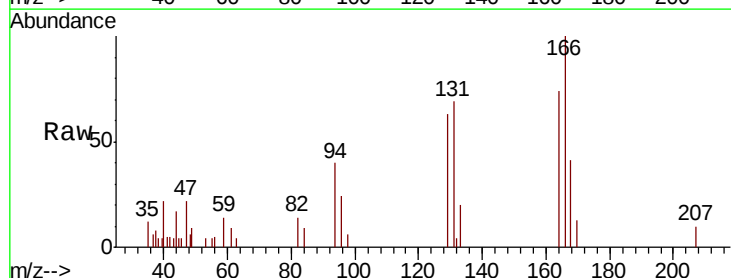


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

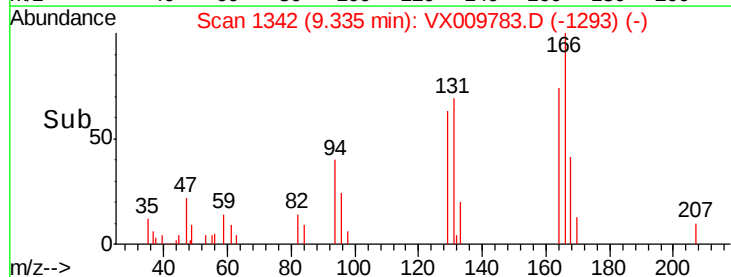
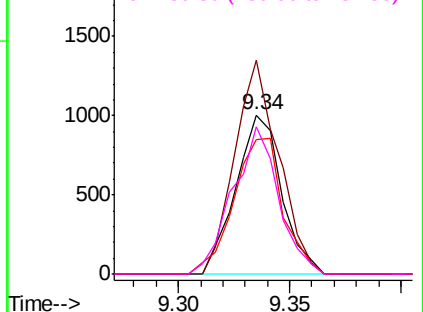


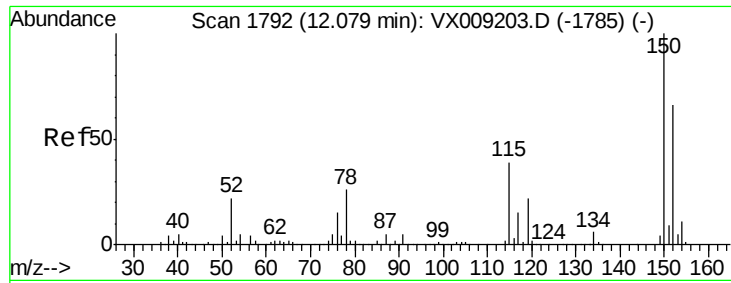
#64
Tetrachloroethene
Concen: 0.841 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009783.D
Acq: 22 May 2019 06:10

Tgt Ion:164 Resp: 1440
Ion Ratio Lower Upper
164 100
166 134.4 101.2 151.8
129 84.6 74.3 111.5
131 92.6 71.0 106.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

MW-17D_R2

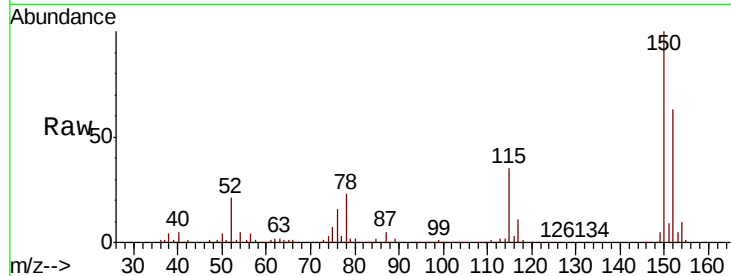
Tot Ion:152 Resp: 108336

Ion Ratio Lower Upper

152 100

115 57.7 41.2 123.6

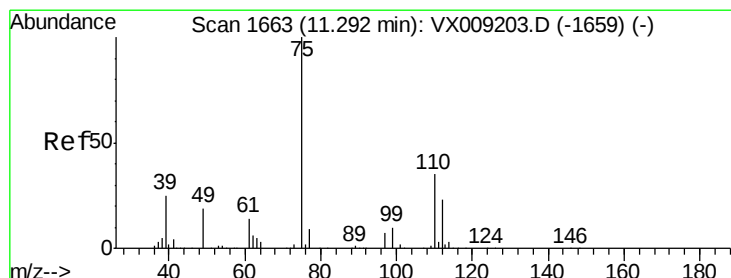
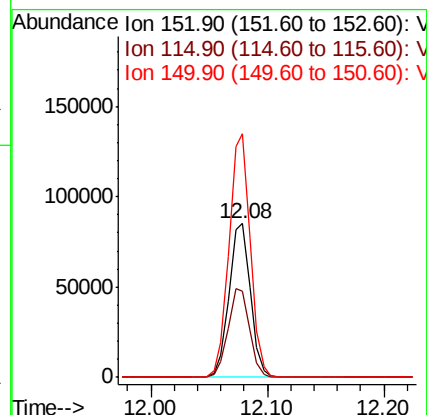
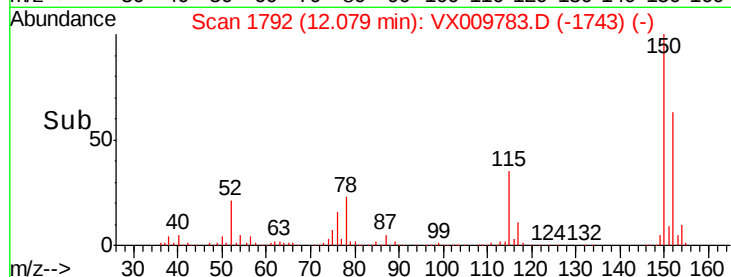
150 156.5 0.0 346.4



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: 24.374 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009783.D

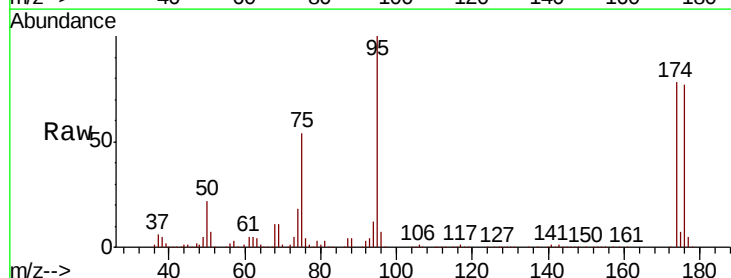
Acq: 22 May 2019 06:10

Tgt Ion: 75 Resp: 61251

Ion Ratio Lower Upper

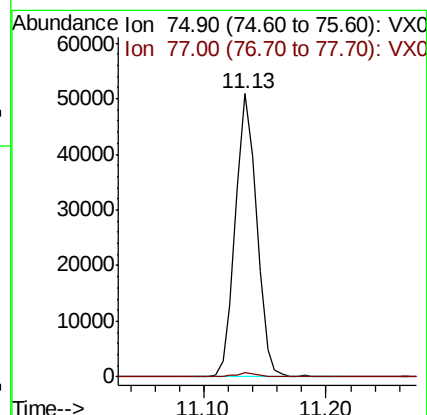
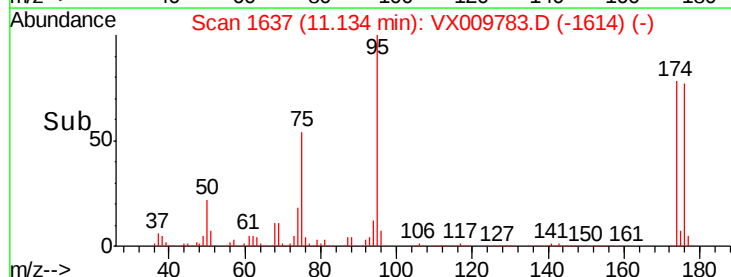
75 100

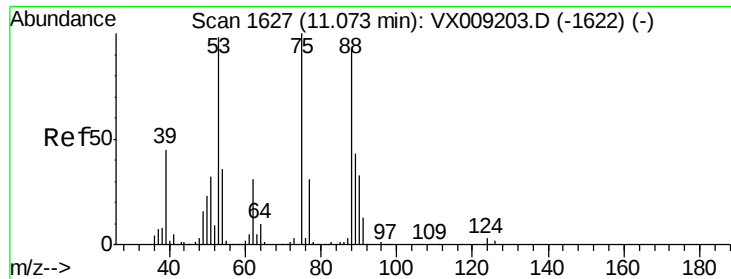
77 1.4 22.1 66.1#



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: 62.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009783.D

Acq: 22 May 2019 06:10

Instrument :

MSVOA_X

ClientSampleId :

MW-17D_R2

Tot Ion: 75 Resp: 61251

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

