

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030719\
 Data File : VX007885.D
 Acq On : 07 Mar 2019 15:51
 Operator : JC/SP
 Sample : K1659-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T5-UV(POST-HYPO)RE

Quant Time: Mar 08 04:43:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	60235	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	6.83	114	28533	50.00	ug/l	-0.03
63) Chlorobenzene-d5	10.11	117	128920	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117843	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.02	65	2448	3.85	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	7.70%	
35) Dibromofluoromethane	5.45	113	1588	8.70	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	17.40%	
50) Toluene-d8	8.70	98	136800	204.09	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	408.18%	
62) 4-Bromofluorobenzene	11.13	95	90450	384.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	769.76%	

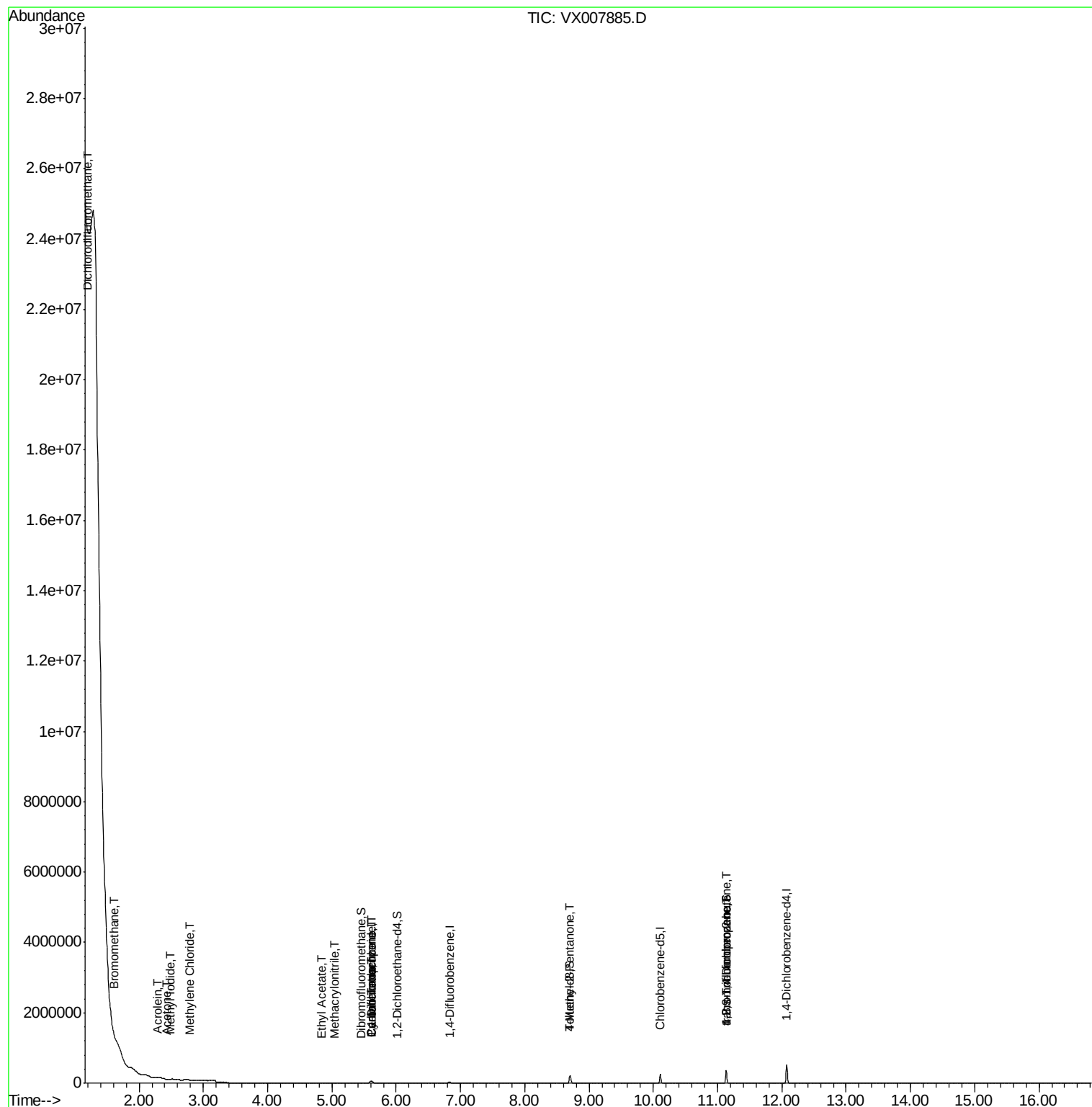
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	572	1.112	ug/l #	42
5) Bromomethane	1.61	94	2422	6.859	ug/l	93
10) Methyl Iodide	2.48	142	10541	13.975	ug/l	96
13) Acrolein	2.28	56	19	1.776	ug/l #	1
16) Acetone	2.44	43	160	0.435	ug/l #	43
17) Carbon Disulfide	2.50	76	309	Below Cal	#	1
20) Methylene Chloride	2.79	84	228	0.390	ug/l #	41
31) Cyclohexane	5.61	56	974	0.998	ug/l #	1
36) 1,1-Dichloropropene	5.61	75	3896	15.080	ug/l #	48
37) Ethyl Acetate	4.84	43	68	0.222	ug/l #	68
38) Carbon Tetrachloride	5.61	117	5128	20.907	ug/l #	16
41) Methacrylonitrile	5.04	41	46	0.275	ug/l #	50
51) 4-Methyl-2-Pentanone	8.70	43	663	2.272	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	41685	16.857	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	41685	53.884	ug/l #	11

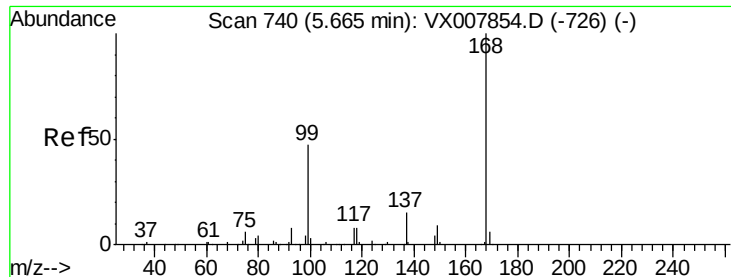
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 731

Delta R.T. -0.05 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

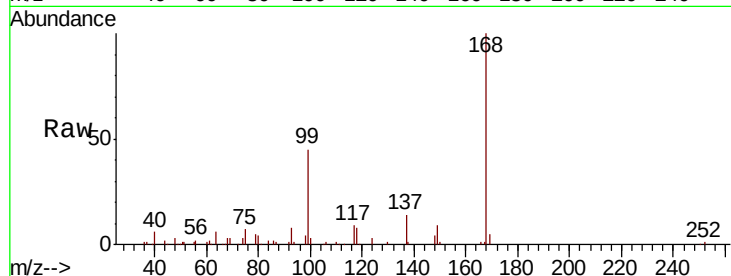
M1-T5-UV(POST-HYPO)RE

Tgt Ion:168 Resp: 60235

Ion Ratio Lower Upper

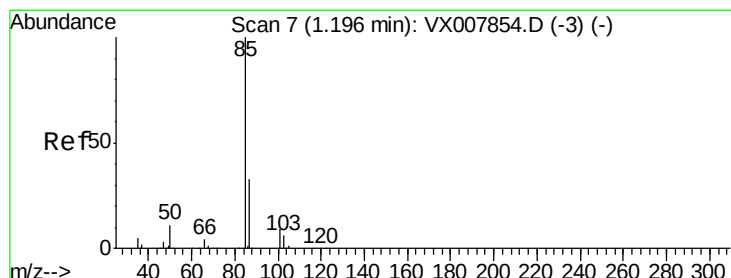
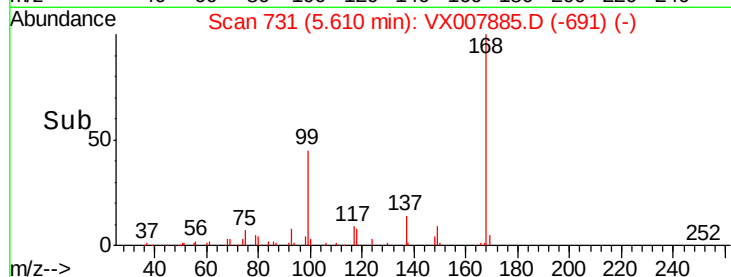
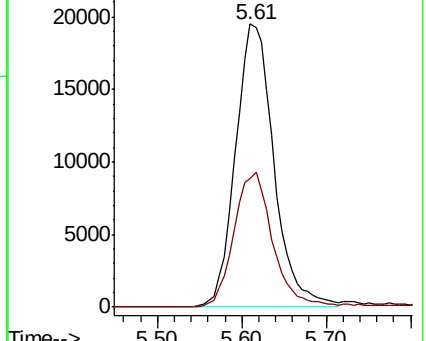
168 100

99 45.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.112 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007885.D

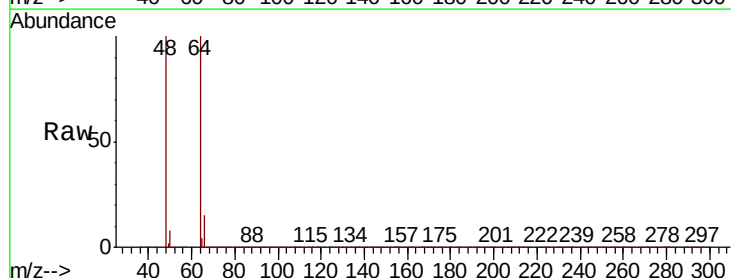
Acq: 07 Mar 2019 15:51

Tgt Ion: 85 Resp: 572

Ion Ratio Lower Upper

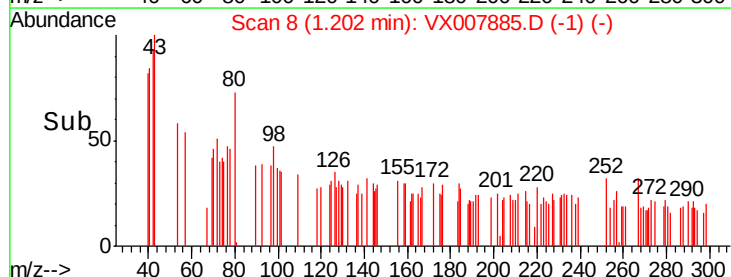
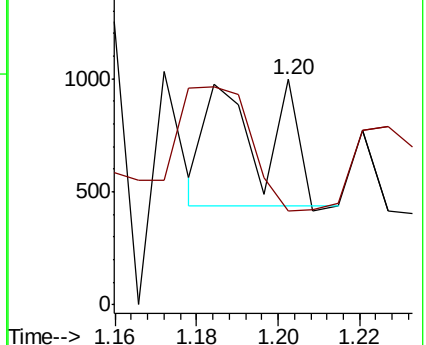
85 100

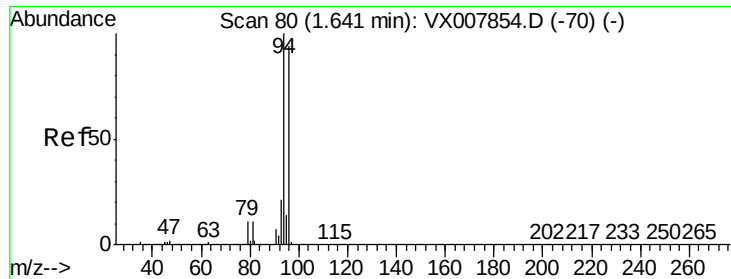
87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 6.859 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.03 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

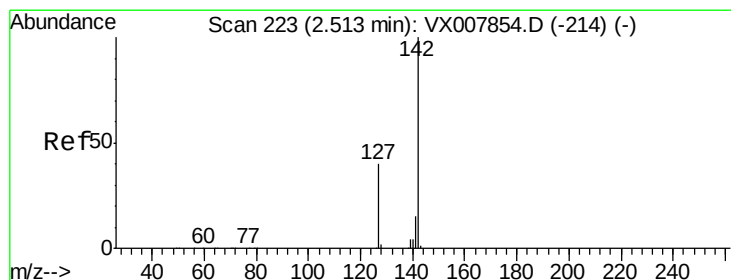
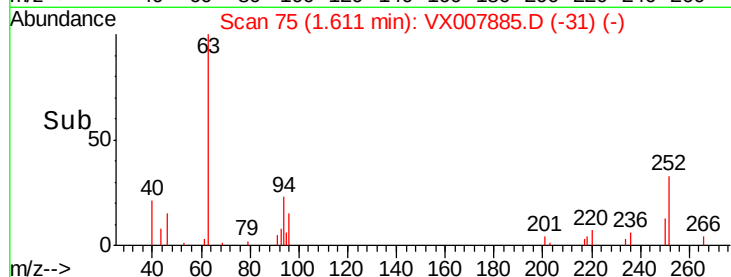
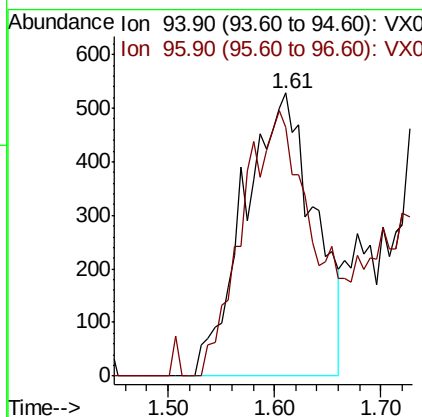
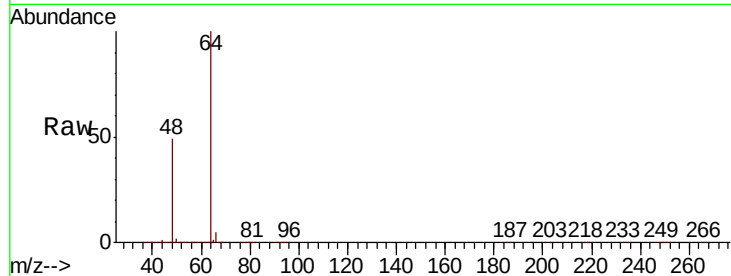
M1-T5-UV(POST-HYPO)RE

Tgt Ion: 94 Resp: 2422

Ion Ratio Lower Upper

94 100

96 88.1 75.5 113.3



#10

Methyl Iodide

Concen: 13.975 ug/l

RT: 2.48 min Scan# 217

Delta R.T. -0.04 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

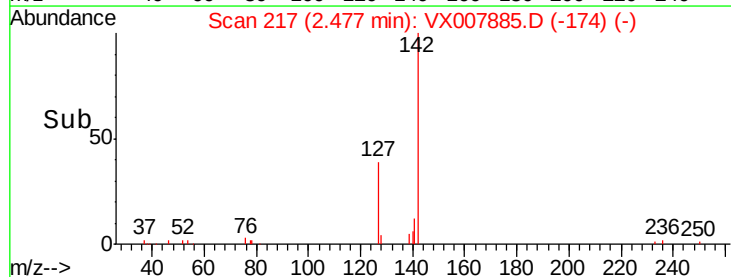
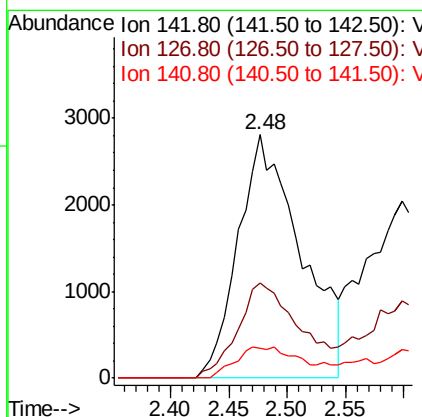
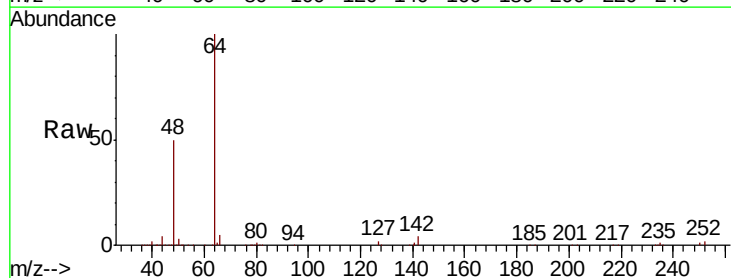
Tgt Ion: 142 Resp: 10541

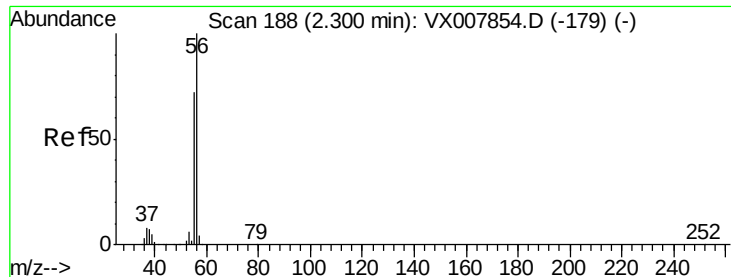
Ion Ratio Lower Upper

142 100

127 38.0 32.1 48.1

141 12.5 11.4 17.2





#13

Acrolein

Concen: 1.776 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

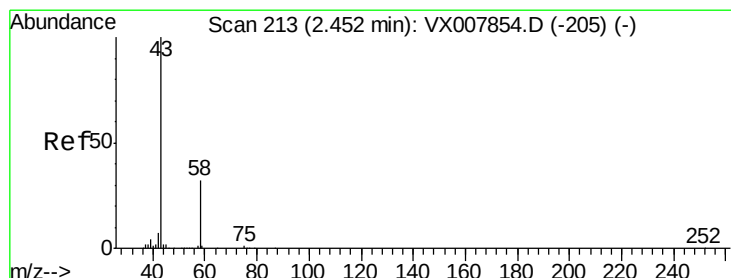
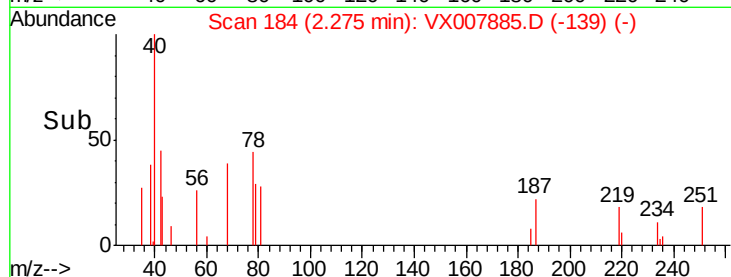
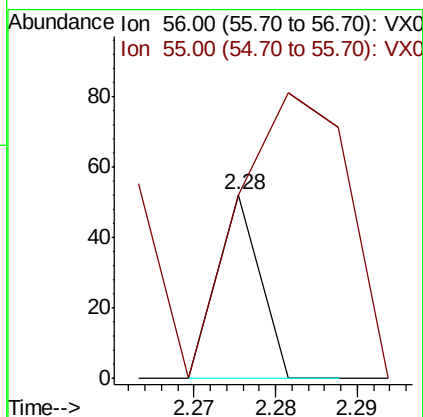
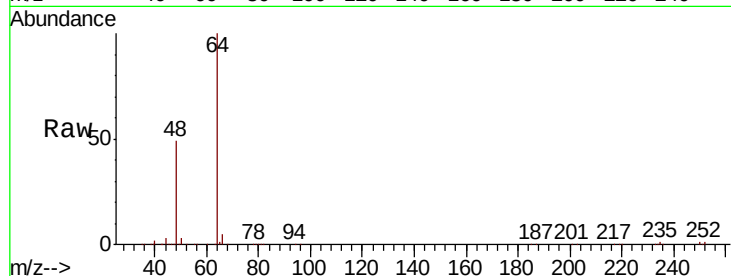
M1-T5-UV(POST-HYPO)RE

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 394.7 57.8 86.6#



#16

Acetone

Concen: 0.435 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX007885.D

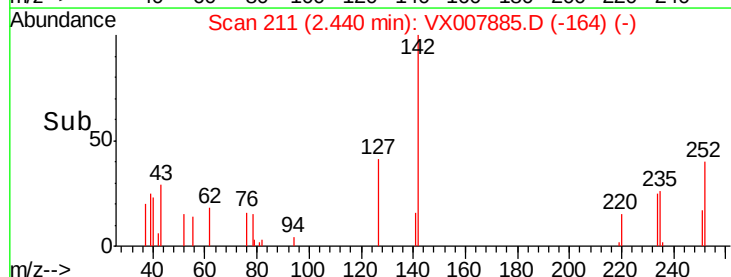
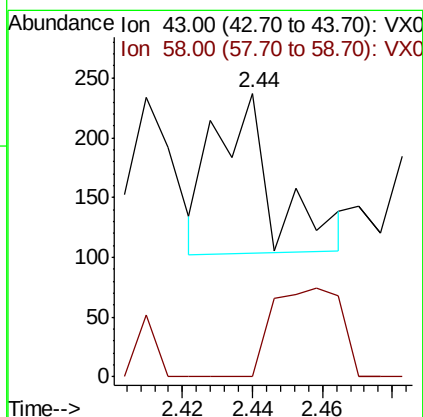
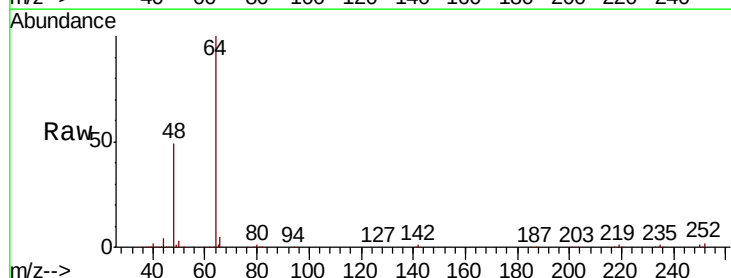
Acq: 07 Mar 2019 15:51

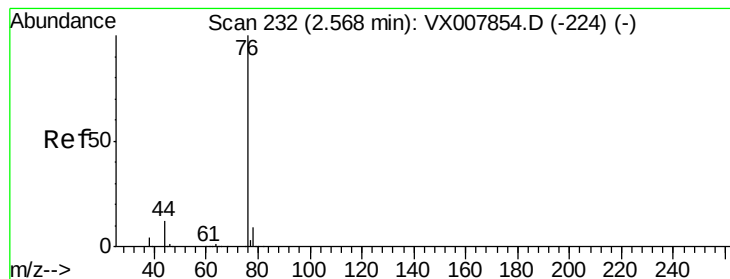
Tgt Ion: 43 Resp: 160

Ion Ratio Lower Upper

43 100

58 0.0 25.5 38.3#





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.50 min Scan# 221

Delta R.T. -0.07 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

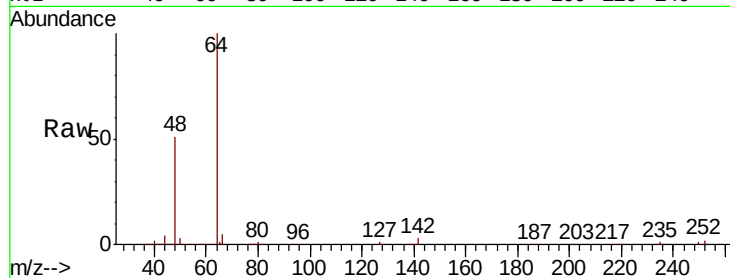
M1-T5-UV(POST-HYPO)RE

Tgt Ion: 76 Resp: 309

Ion Ratio Lower Upper

76 100

78 53.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.50

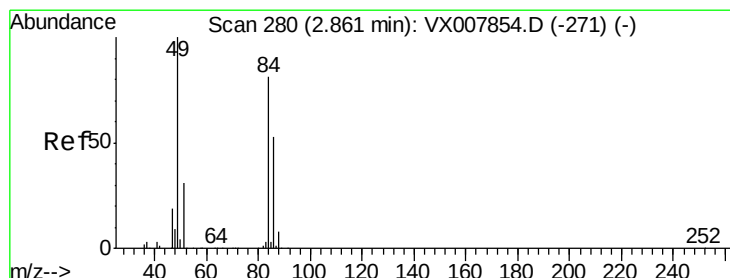
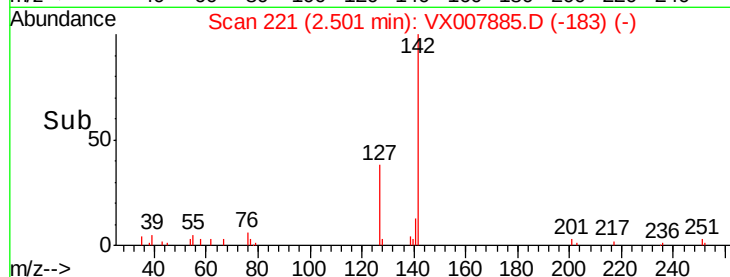
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 0.390 ug/l

RT: 2.79 min Scan# 268

Delta R.T. -0.07 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Tgt Ion: 84 Resp: 228

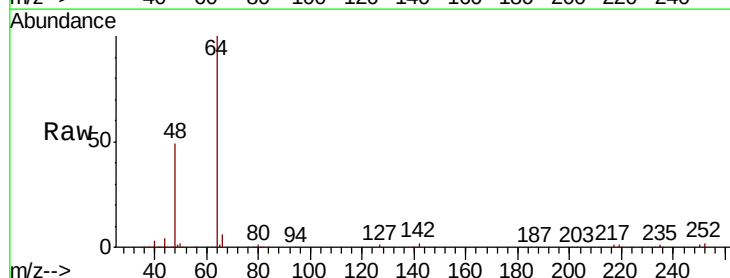
Ion Ratio Lower Upper

84 100

49 62.1 99.3 148.9#

51 18.9 31.3 46.9#

86 0.0 52.6 79.0#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

500

400

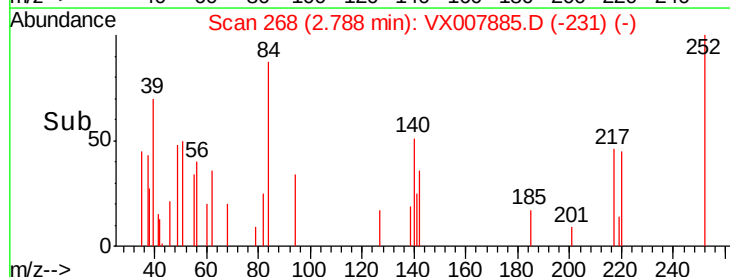
300

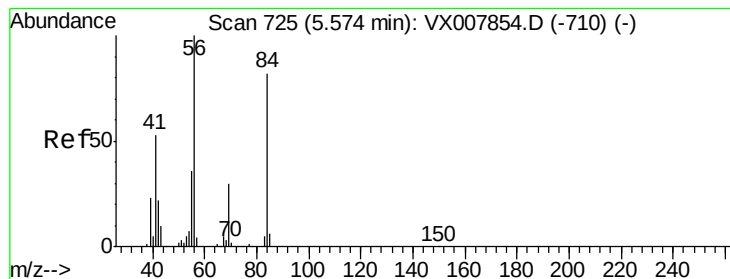
200

100

0

Time-->





#31

Cyclohexane

Concen: 0.998 ug/l

RT: 5.61 min Scan# 731

Delta R.T. 0.04 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE

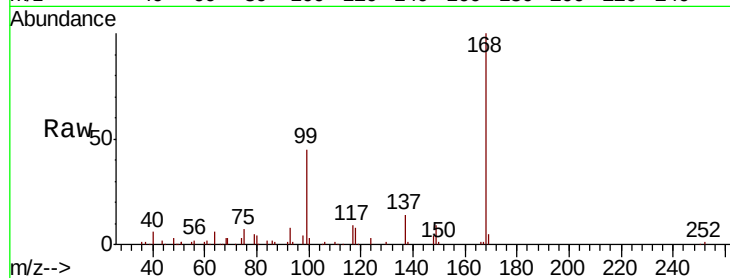
Tgt Ion: 56 Resp: 974

Ion Ratio Lower Upper

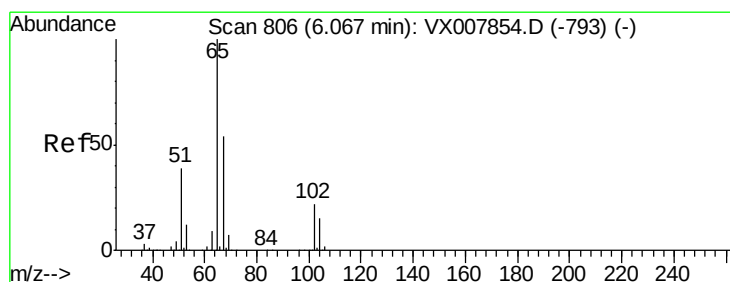
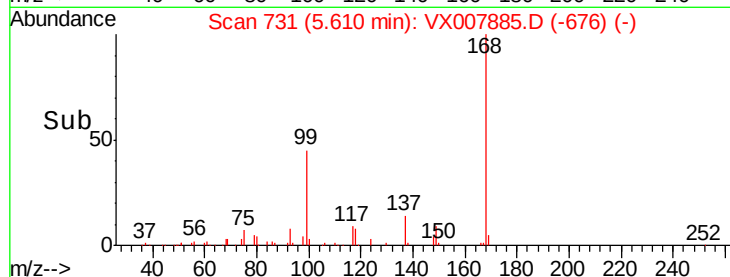
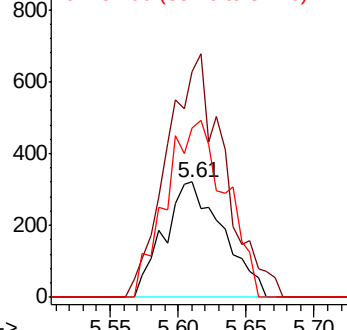
56 100

69 195.3 24.0 36.0#

84 146.4 65.3 97.9#



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: 3.853 ug/l

RT: 6.02 min Scan# 798

Delta R.T. -0.05 min

Lab File: VX007885.D

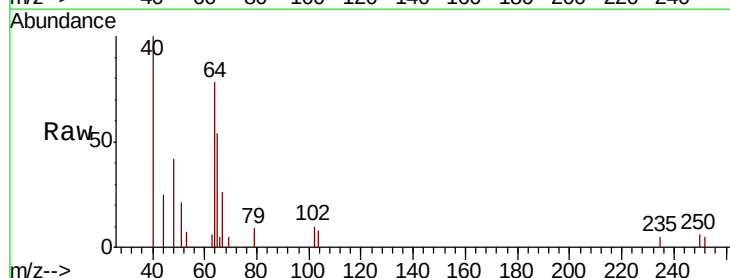
Acq: 07 Mar 2019 15:51

Tgt Ion: 65 Resp: 2448

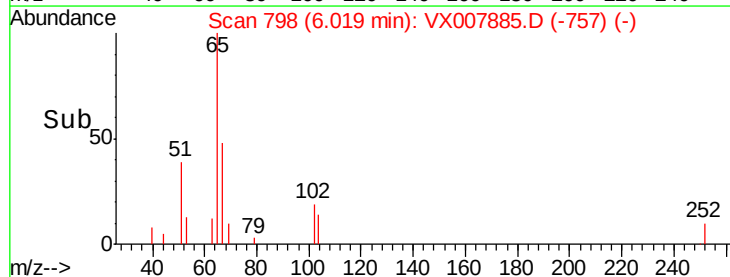
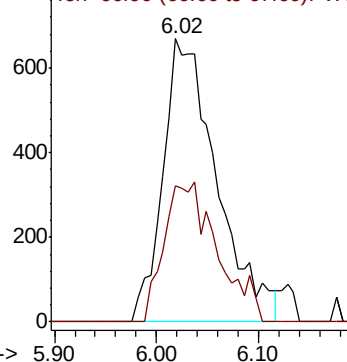
Ion Ratio Lower Upper

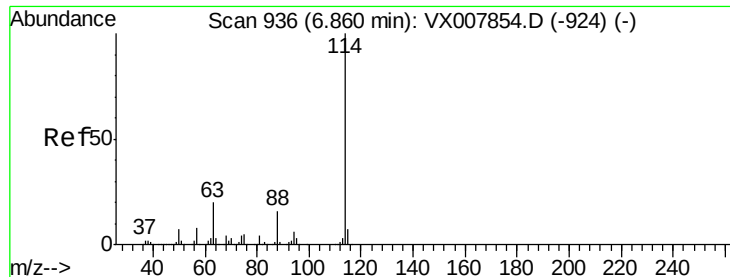
65 100

67 48.9 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

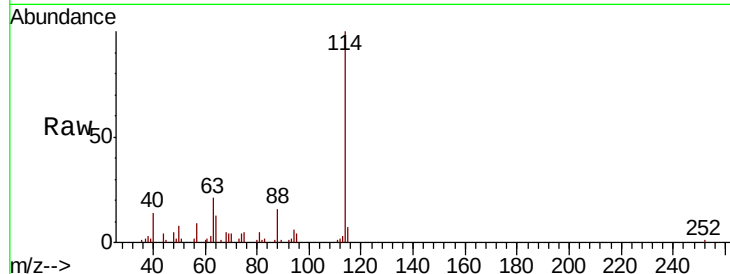




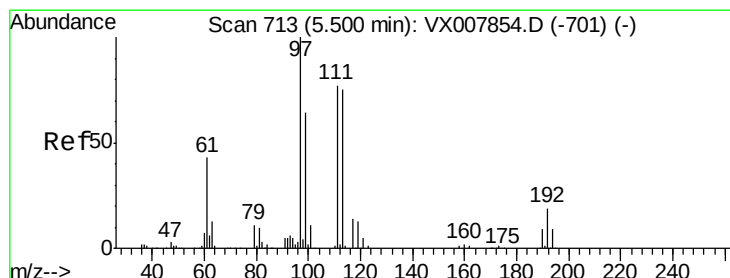
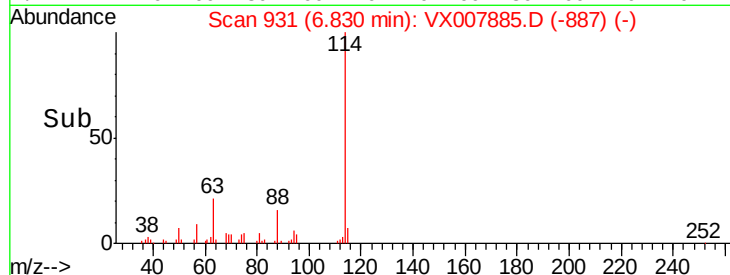
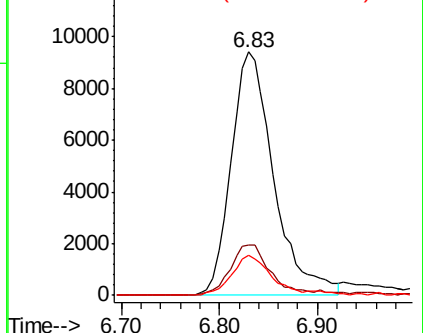
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 931
 Delta R.T. -0.03 min
 Lab File: VX007885.D
 Acq: 07 Mar 2019 15:51

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Tgt Ion:114 Resp: 28533
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 39.8
 88 16.4 0.0 31.4

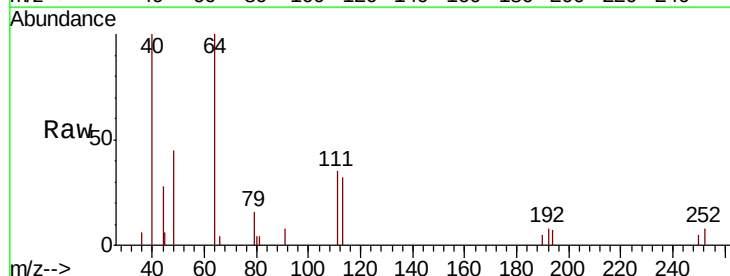


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

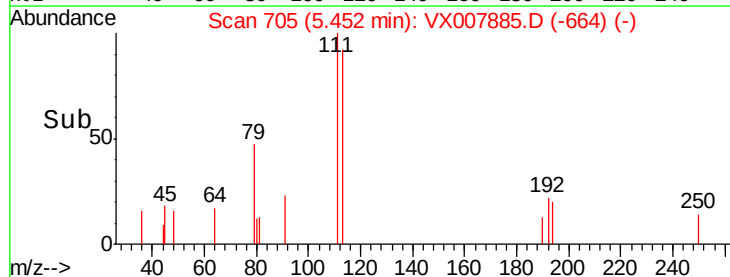
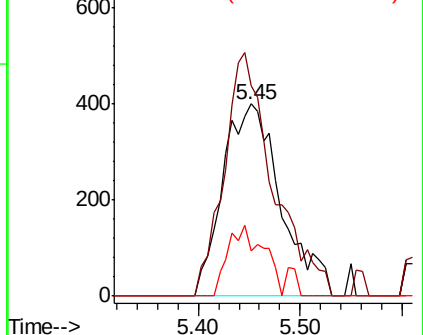


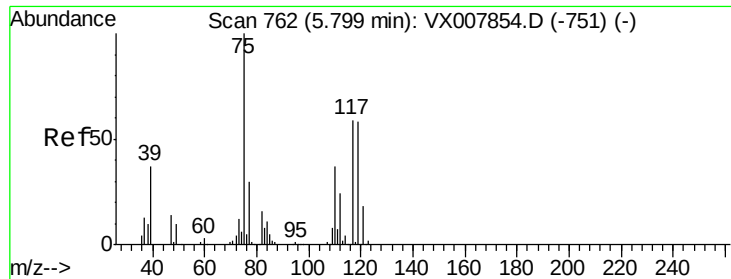
#35
 Dibromofluoromethane
 Concen: 8.701 ug/l
 RT: 5.45 min Scan# 705
 Delta R.T. -0.05 min
 Lab File: VX007885.D
 Acq: 07 Mar 2019 15:51

Tgt Ion:113 Resp: 1588
 Ion Ratio Lower Upper
 113 100
 111 106.3 81.4 122.0
 192 22.8 19.4 29.0



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: 15.080 ug/l

RT: 5.61 min Scan# 731

Delta R.T. -0.19 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE

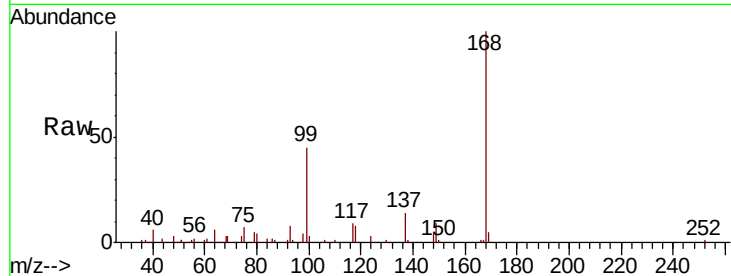
Tgt Ion: 75 Resp: 3896

Ion Ratio Lower Upper

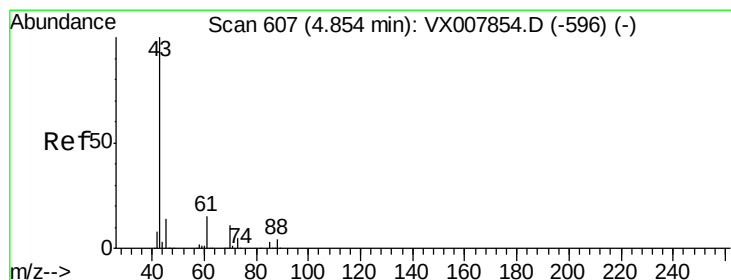
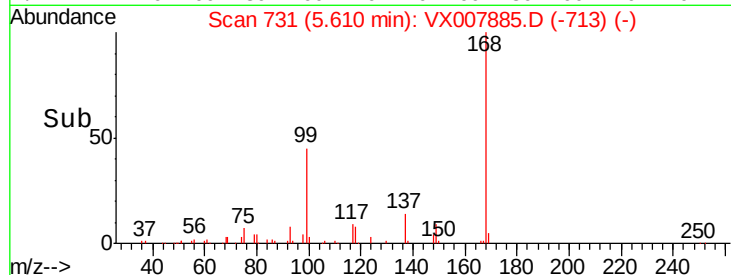
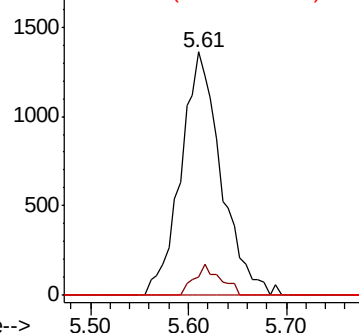
75 100

110 8.2 18.4 55.0#

77 0.0 25.0 37.4#



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



#37

Ethyl Acetate

Concen: 0.222 ug/l

RT: 4.84 min Scan# 604

Delta R.T. -0.02 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

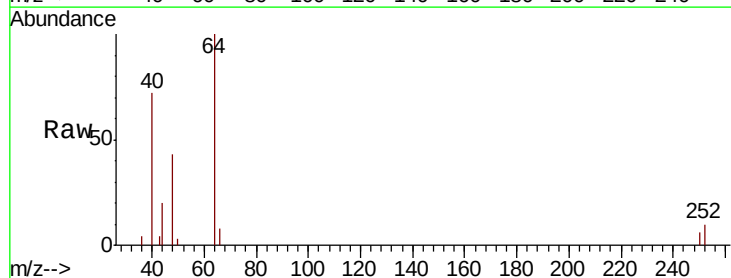
Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

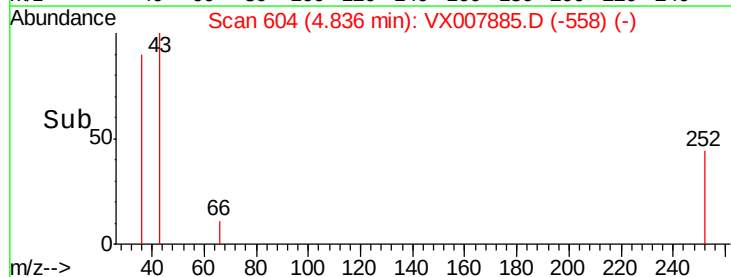
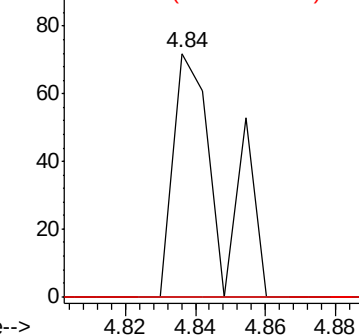
43 100

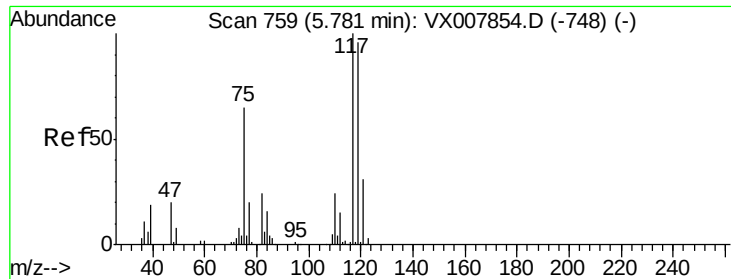
61 0.0 11.3 16.9#

70 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 20.907 ug/l

RT: 5.61 min Scan# 731

Delta R.T. -0.17 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE

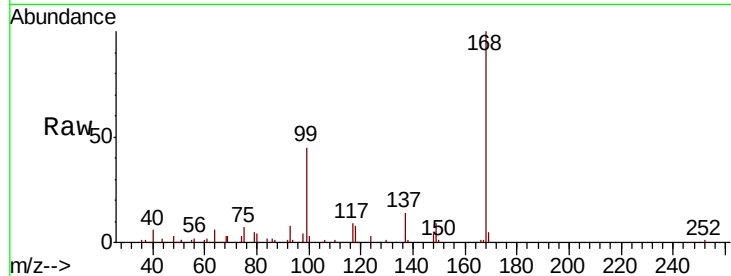
Tgt Ion:117 Resp: 5128

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

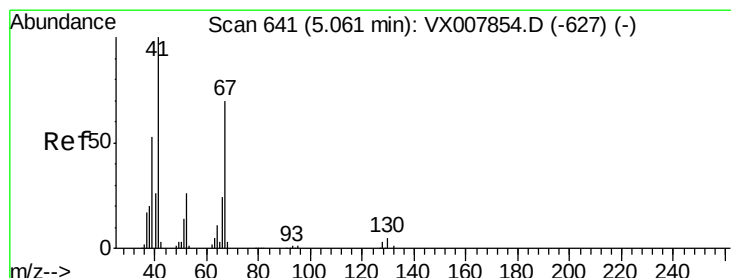
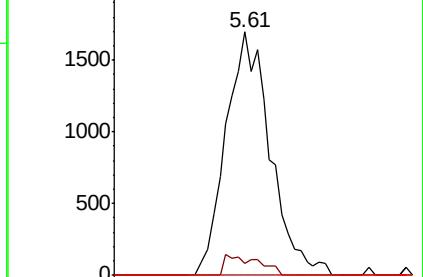
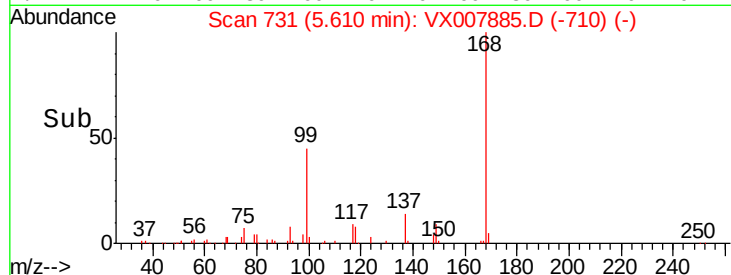
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.275 ug/l

RT: 5.04 min Scan# 638

Delta R.T. -0.02 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Tgt Ion: 41 Resp: 46

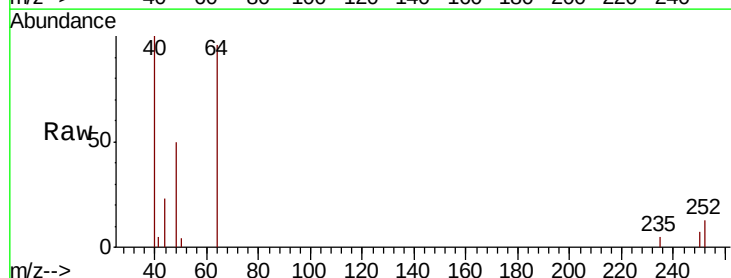
Ion Ratio Lower Upper

41 100

39 50.0 41.6 62.4

67 0.0 55.8 83.6#

52 0.0 21.7 32.5#

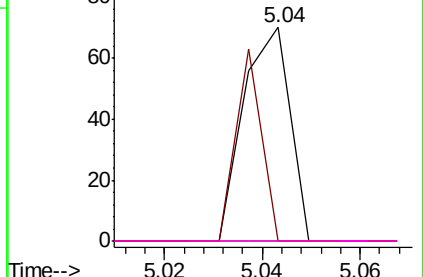
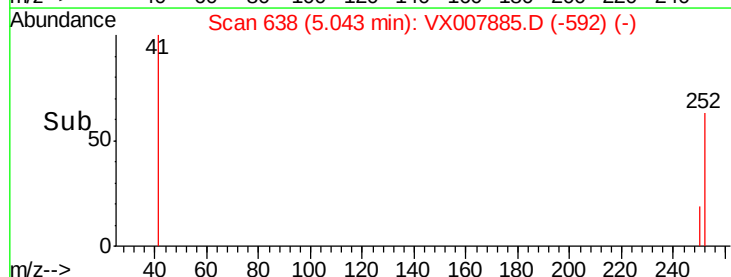


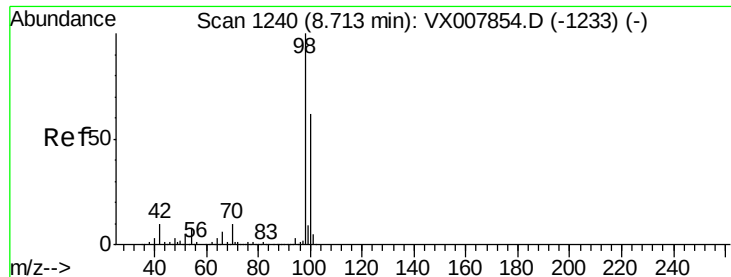
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 204.088 ug/l

RT: 8.70 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

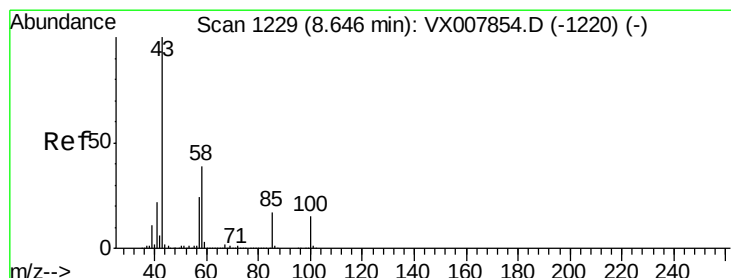
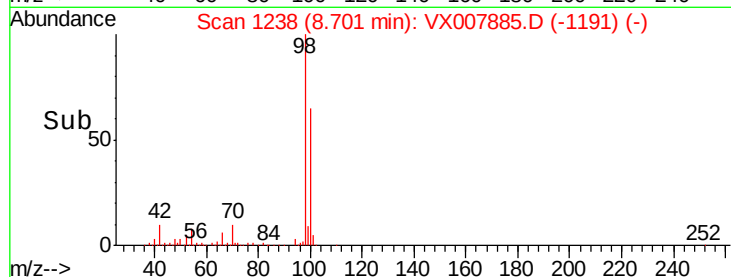
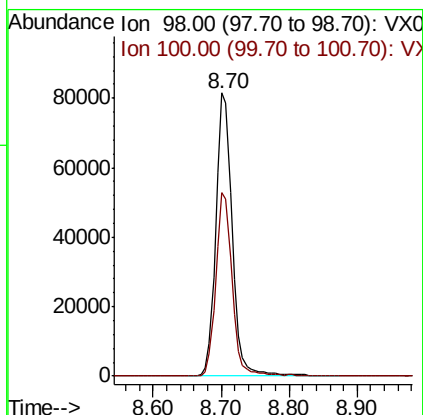
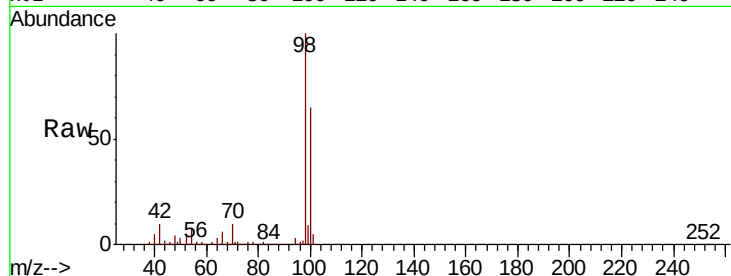
M1-T5-UV(POST-HYPO)RE

Tgt Ion: 98 Resp: 136800

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 2.272 ug/l

RT: 8.70 min Scan# 1238

Delta R.T. 0.05 min

Lab File: VX007885.D

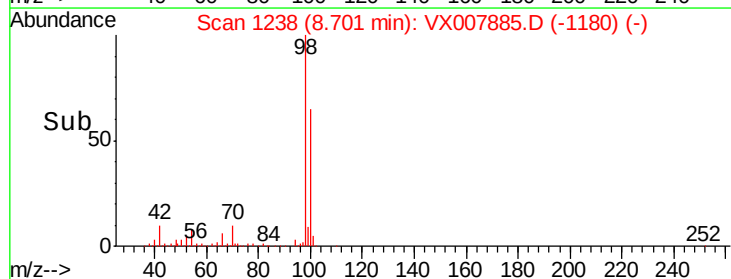
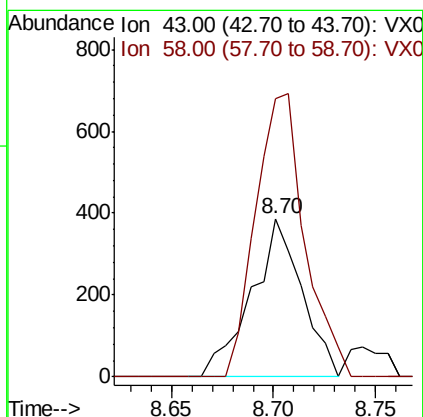
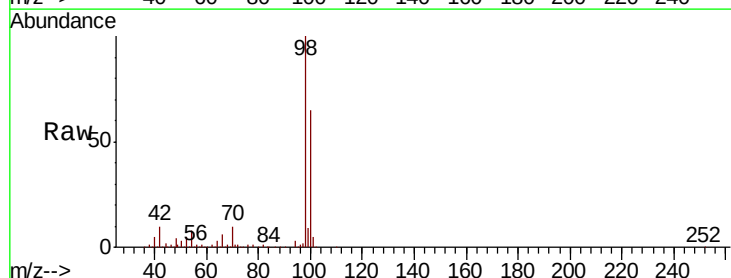
Acq: 07 Mar 2019 15:51

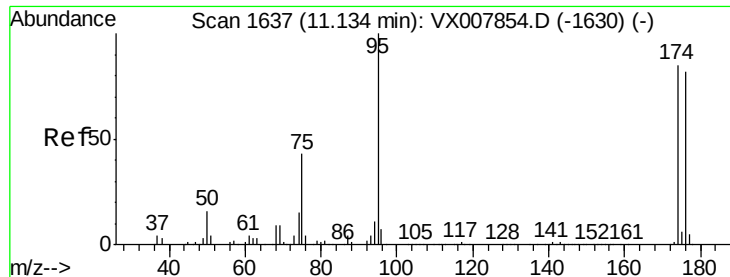
Tgt Ion: 43 Resp: 663

Ion Ratio Lower Upper

43 100

58 174.7 31.3 46.9#





#62

4-Bromofluorobenzene

Concen: 384.879 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE

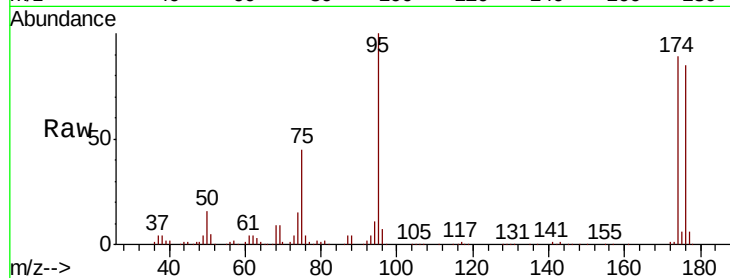
Tgt Ion: 95 Resp: 90450

Ion Ratio Lower Upper

95 100

174 92.7 0.0 182.8

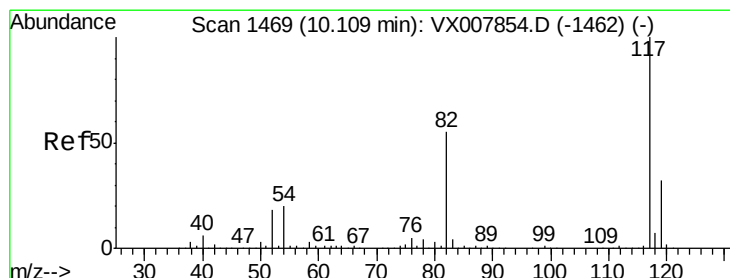
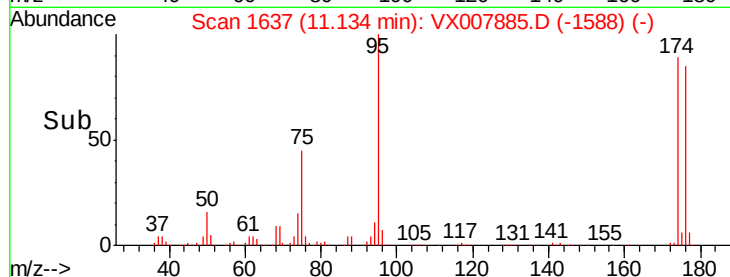
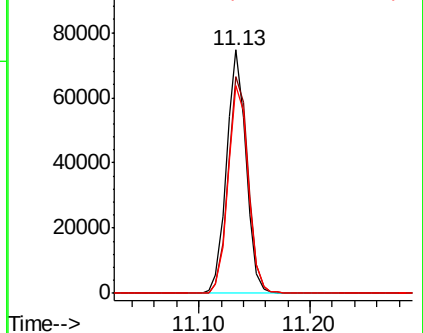
176 88.5 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX007885.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007885.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007885.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

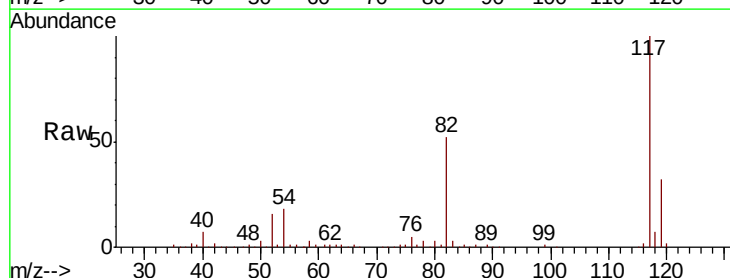
Tgt Ion: 117 Resp: 128920

Ion Ratio Lower Upper

117 100

82 51.8 44.3 66.5

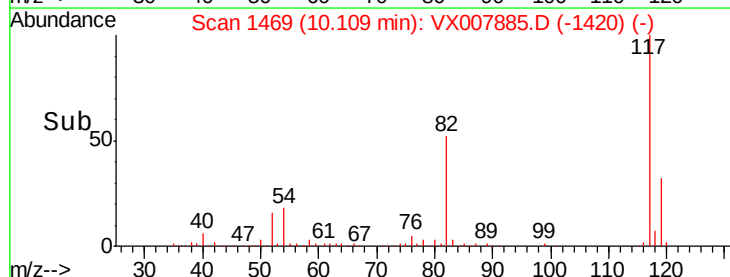
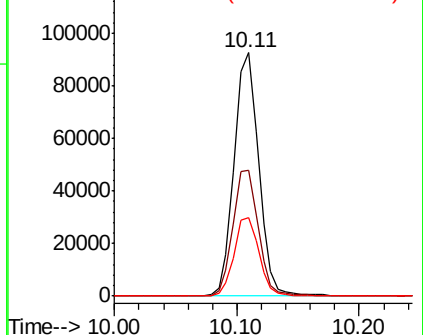
119 32.3 25.3 37.9

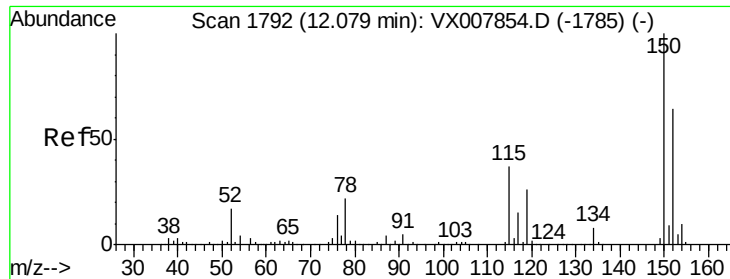


Abundance Ion 116.90 (116.60 to 117.60): VX007885.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX007885.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX007885.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007885.D

Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE

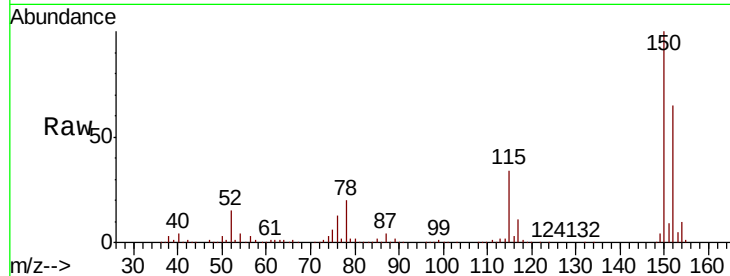
Tgt Ion:152 Resp: 117843

Ion Ratio Lower Upper

152 100

115 54.4 38.6 115.7

150 155.3 0.0 348.4

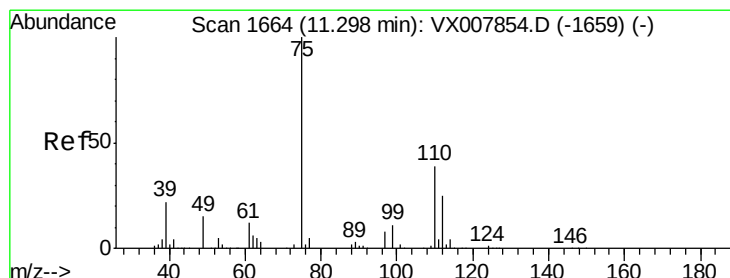
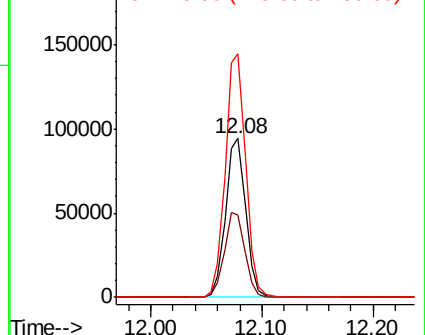
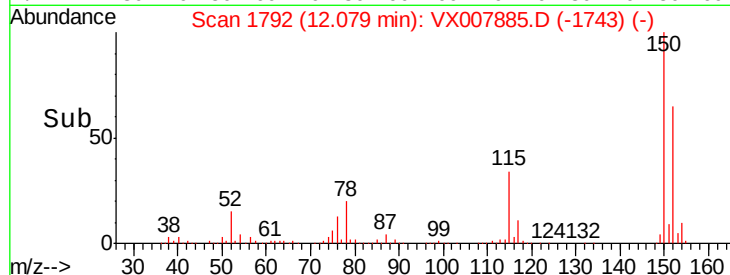


Abundance

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: 16.857 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007885.D

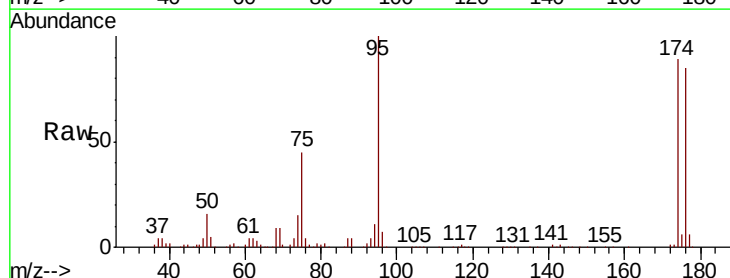
Acq: 07 Mar 2019 15:51

Tgt Ion: 75 Resp: 41685

Ion Ratio Lower Upper

75 100

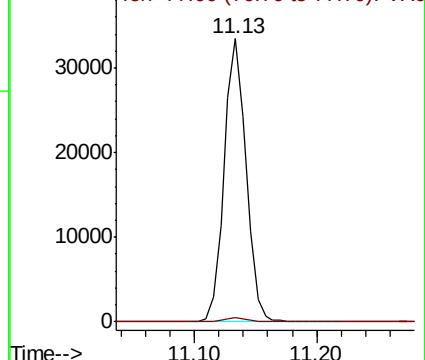
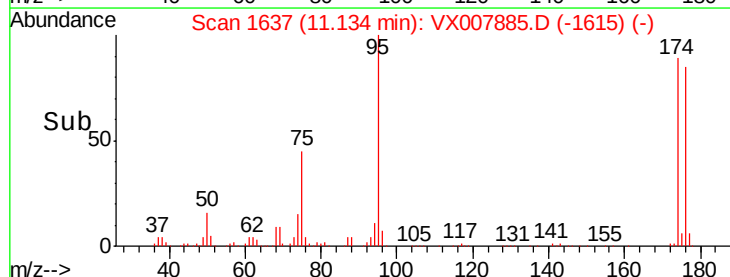
77 1.4 18.9 56.7#

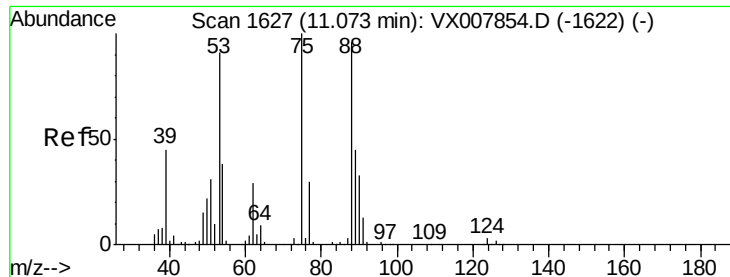


Abundance

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: 53.884 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007885.D

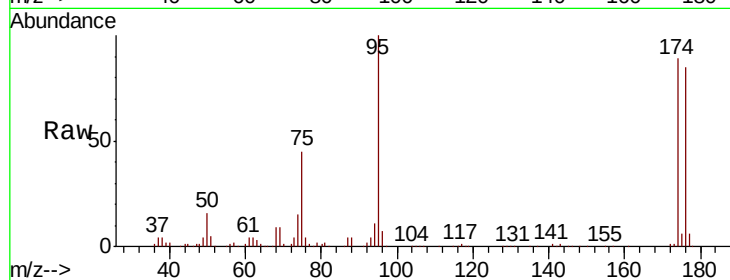
Acq: 07 Mar 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

M1-T5-UV(POST-HYPO)RE



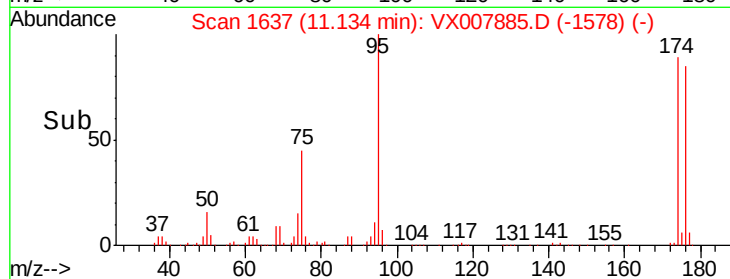
Tgt Ion: 75 Resp: 41685

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

