

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012922.D
 Acq On : 09 Oct 2019 05:05
 Operator : JC/SP
 Sample : K5154-26
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101D

Quant Time: Oct 09 05:59:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	186076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	312464	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	268554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109320	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	120471	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	5.49	113	93134	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
50) Toluene-d8	8.71	98	365133	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	11.14	95	128709	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	

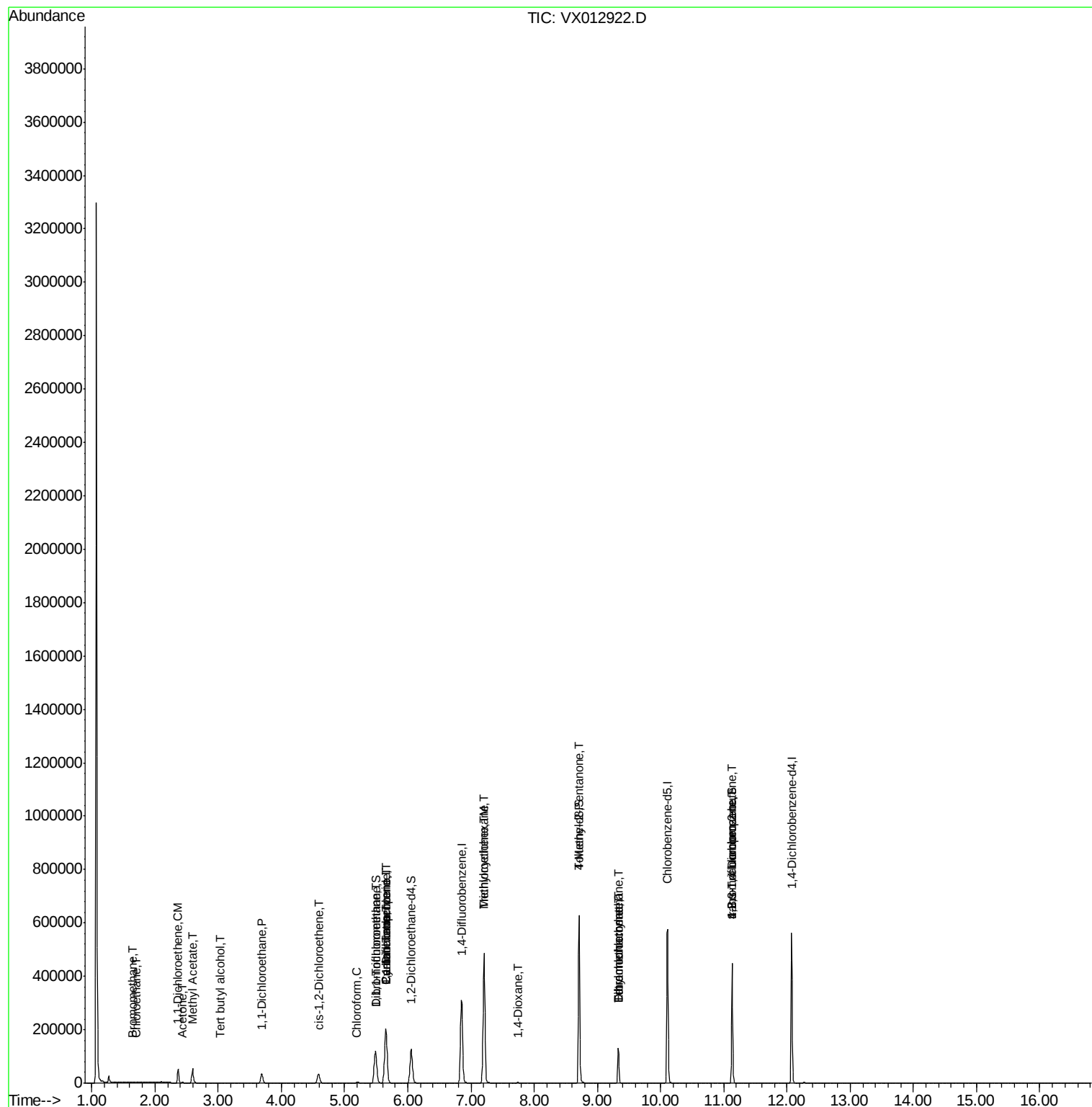
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	271	0.306	ug/l #	66
6) Chloroethane	1.70	64	1679	1.648	ug/l #	43
11) Tert butyl alcohol	3.03	59	919	1.491	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	17221	9.158	ug/l	97
16) Acetone	2.44	43	3389	2.765	ug/l	95
18) Methyl Acetate	2.59	43	14503	4.991	ug/l #	51
24) 1,1-Dichloroethane	3.69	63	38189	10.579	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	21898	9.426	ug/l	89
28) Bromochloromethane	5.18	49	57	Below Cal	#	13
30) Chloroform	5.19	83	3395	0.917	ug/l #	67
31) Cyclohexane	5.65	56	3973	1.177	ug/l #	1
32) 1,1,1-Trichloroethane	5.48	97	11689	3.724	ug/l	98
36) 1,1-Dichloropropene	5.65	75	14998	5.459	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19667	7.355	ug/l #	18
39) Methylcyclohexane	7.20	83	2251	0.676	ug/l #	1
44) Trichloroethene	7.21	130	188967	83.985	ug/l	96
49) 1,4-Dioxane	7.74	88	1650	59.777	ug/l	93
51) 4-Methyl-2-Pentanone	8.71	43	1489	0.484	ug/l #	1
56) Ethyl methacrylate	9.33	69	35	1.841	ug/l #	1
60) Dibromochloromethane	9.33	129	24628	12.230	ug/l #	10
64) Tetrachloroethene	9.33	164	25213	13.536	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	63146	26.043	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	63146	65.582	ug/l #	10

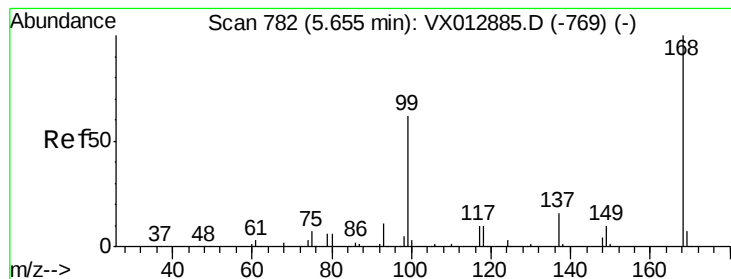
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

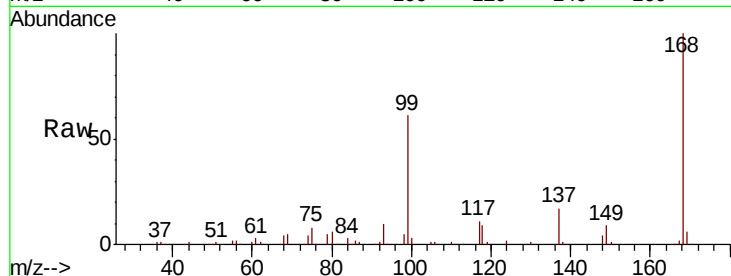
MW-101D

Tot Ion:168 Resp: 186076

Ion Ratio Lower Upper

168 100

99 60.8 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

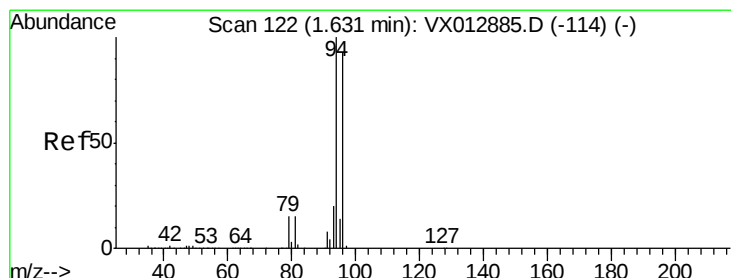
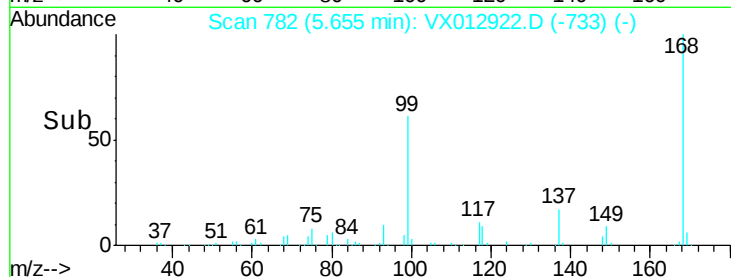
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.306 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012922.D

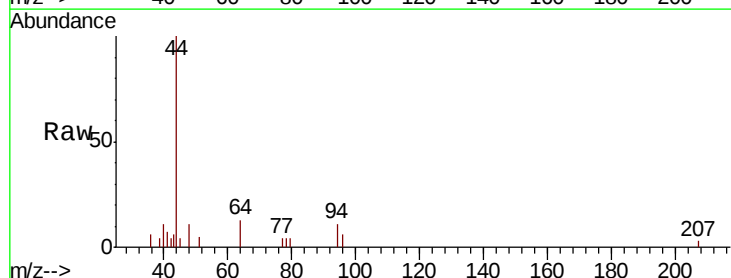
Acq: 09 Oct 2019 05:05

Tgt Ion: 94 Resp: 271

Ion Ratio Lower Upper

94 100

96 61.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

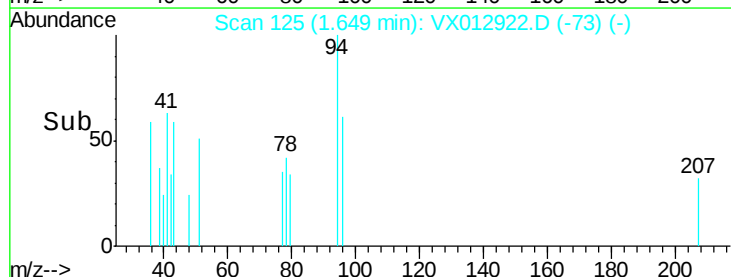
150

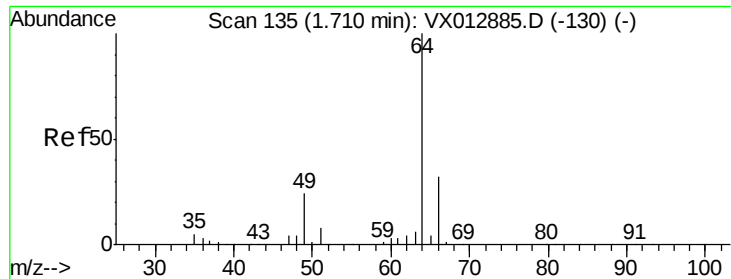
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 1.648 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

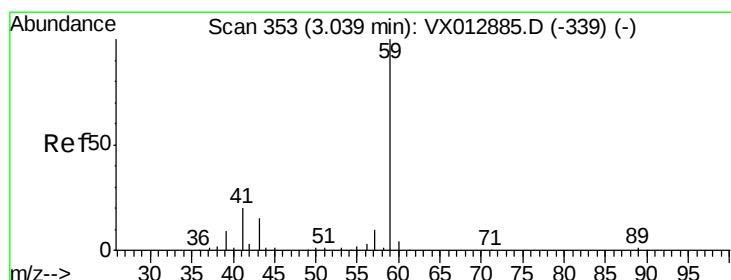
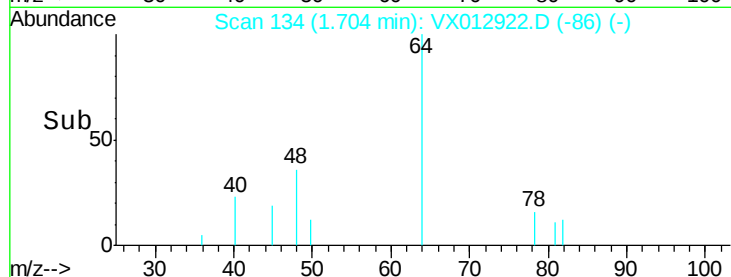
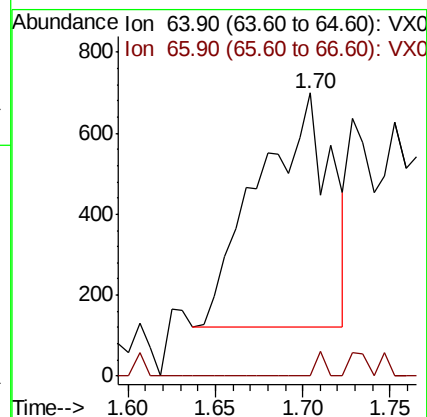
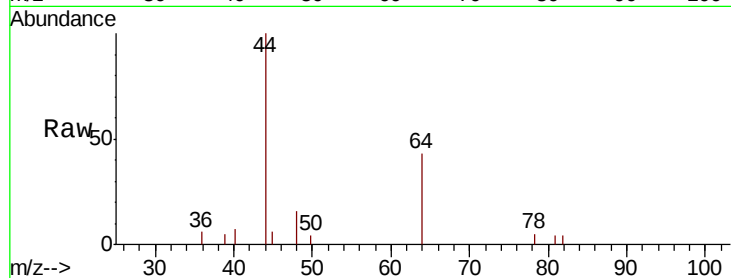
MW-101D

Tot Ion: 64 Resp: 1679

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 1.491 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012922.D

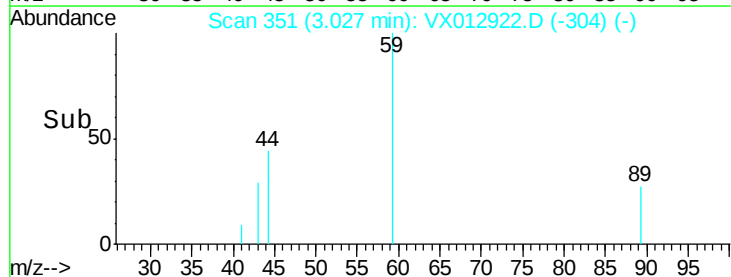
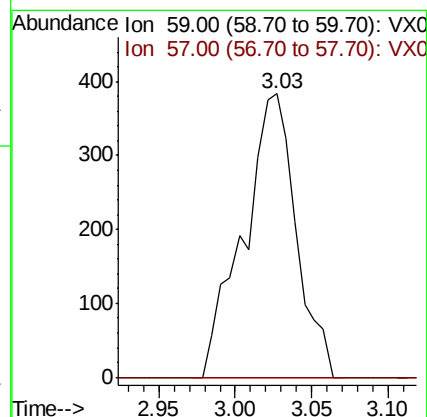
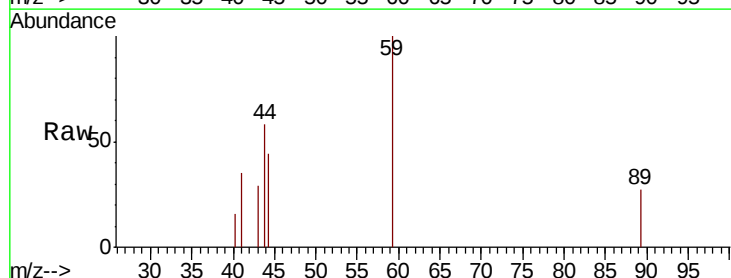
Acq: 09 Oct 2019 05:05

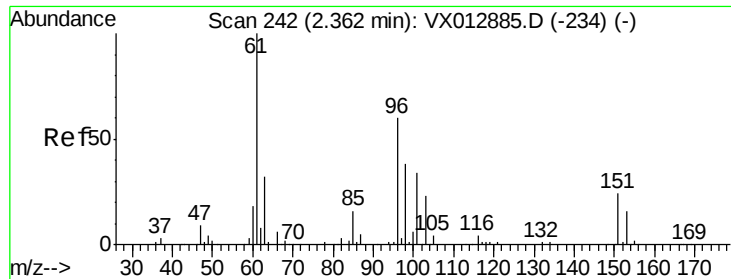
Tgt Ion: 59 Resp: 919

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 9.158 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampled :

MW-101D

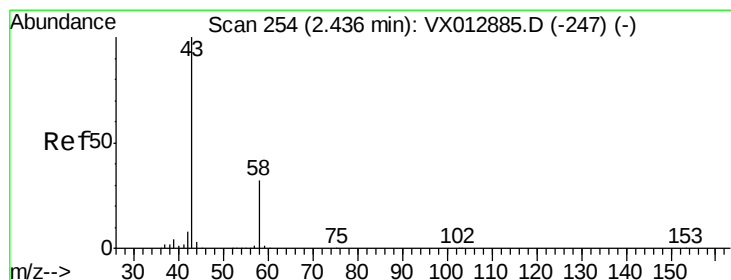
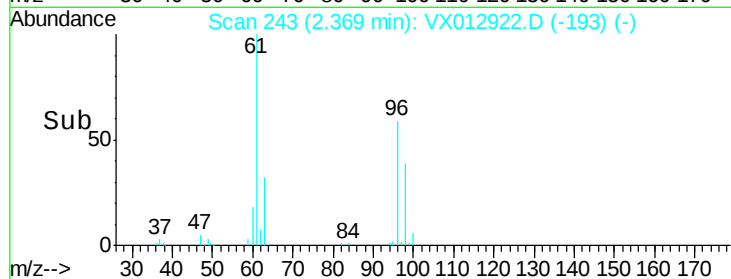
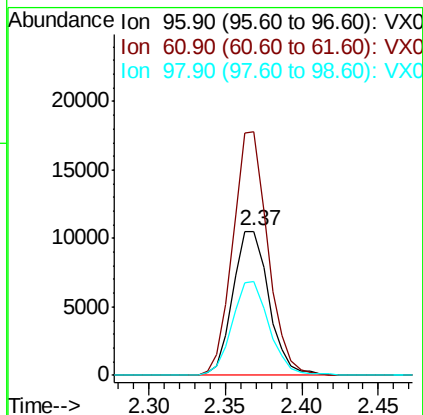
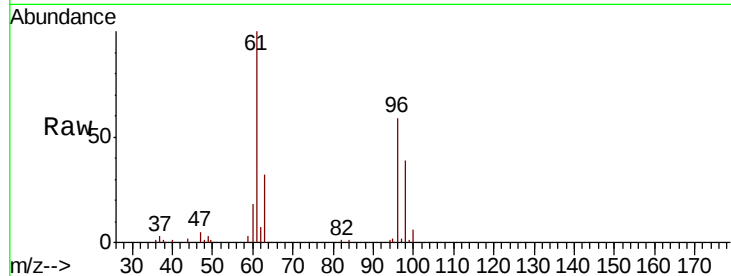
Tot Ion: 96 Resp: 17221

Ion Ratio Lower Upper

96 100

61 168.6 132.2 198.4

98 65.4 50.5 75.7



#16

Acetone

Concen: 2.765 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012922.D

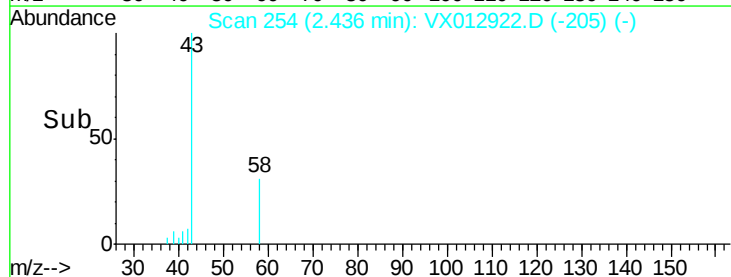
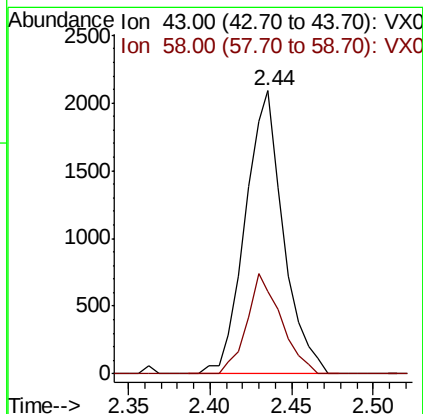
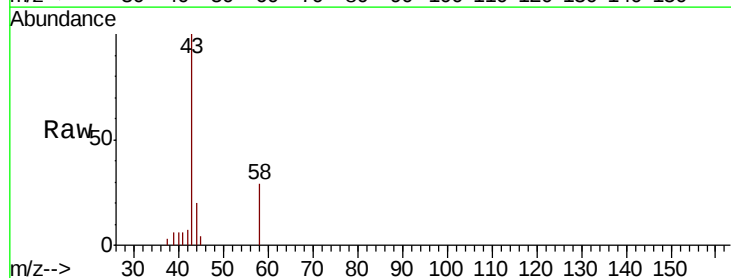
Acq: 09 Oct 2019 05:05

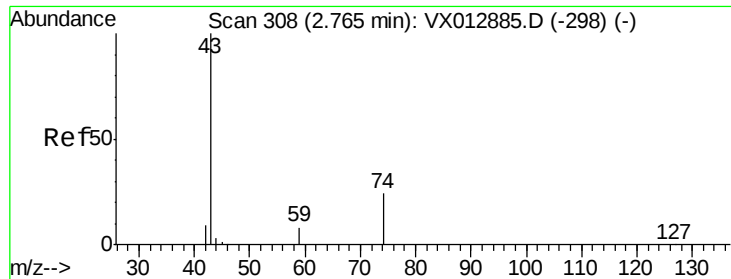
Tgt Ion: 43 Resp: 3389

Ion Ratio Lower Upper

43 100

58 29.0 25.4 38.2

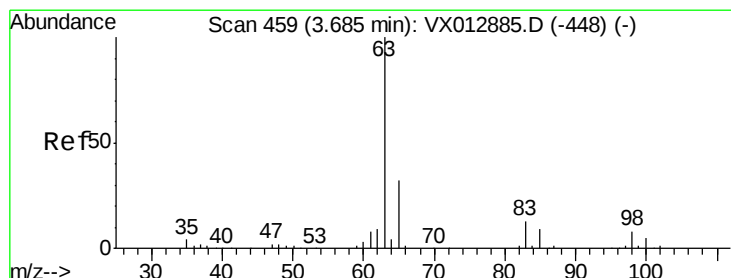
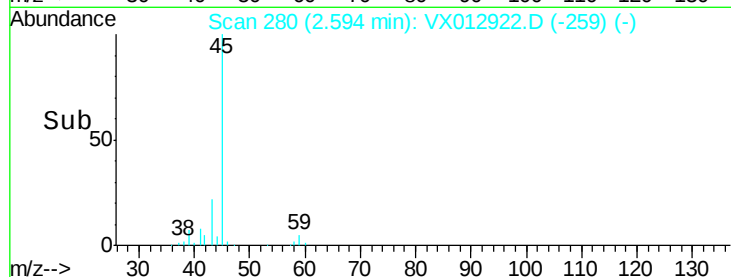
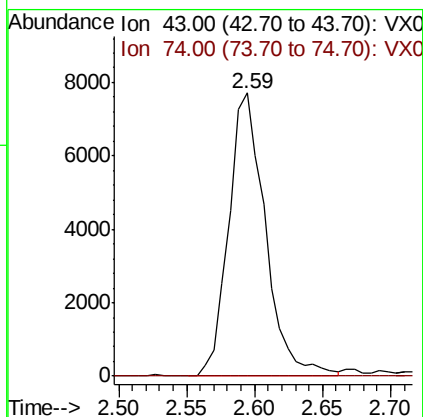
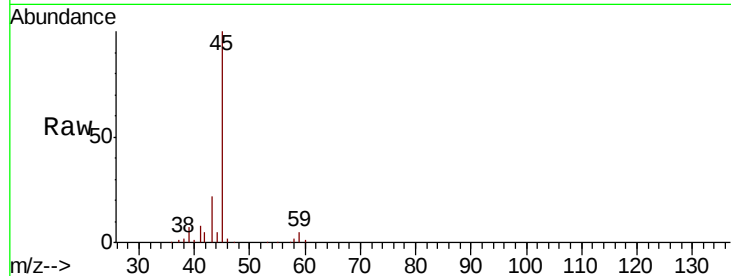




#18
Methvl Acetate
Concen: 4.991 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

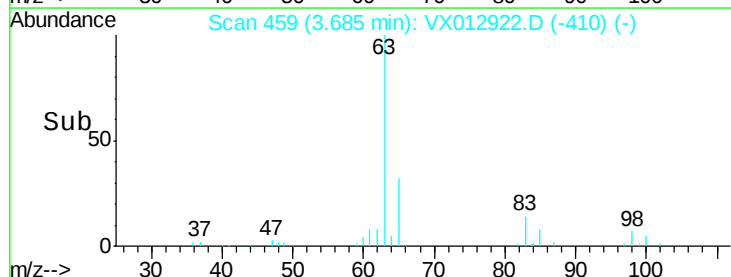
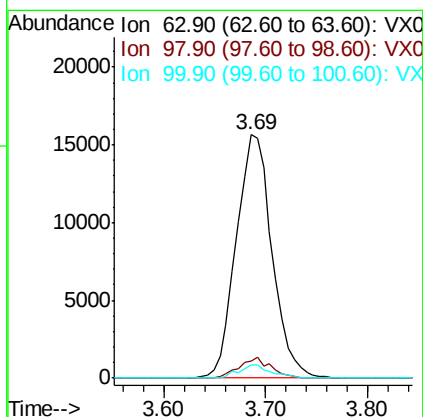
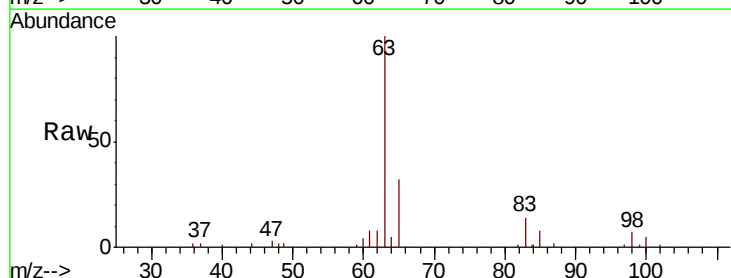
Instrument :
MSVOA_X
ClientSampleId :
MW-101D

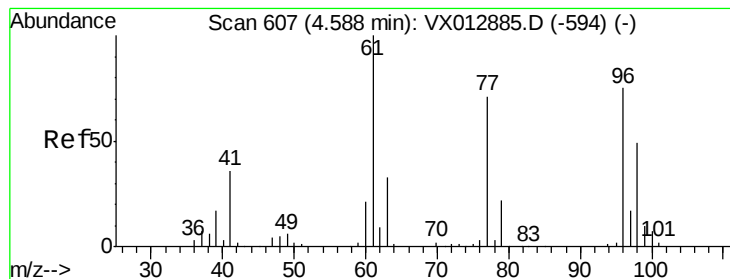
Tot Ion: 43 Resp: 14503
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#24
1,1-Dichloroethane
Concen: 10.579 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Tgt Ion: 63 Resp: 38189
Ion Ratio Lower Upper
63 100
98 7.0 3.9 11.5
100 5.4 2.3 6.9





#27

cis-1,2-Dichloroethene

Concen: 9.426 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampled :

MW-101D

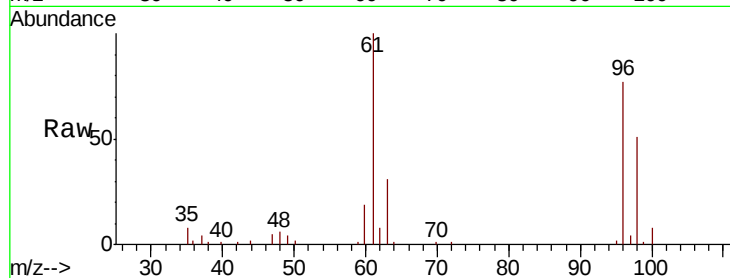
Tot Ion: 96 Resp: 21898

Ion Ratio Lower Upper

96 100

61 126.8 0.0 290.6

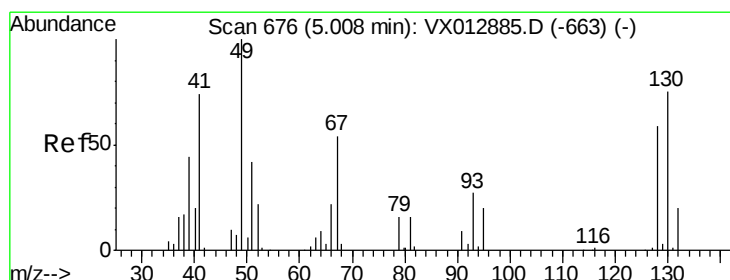
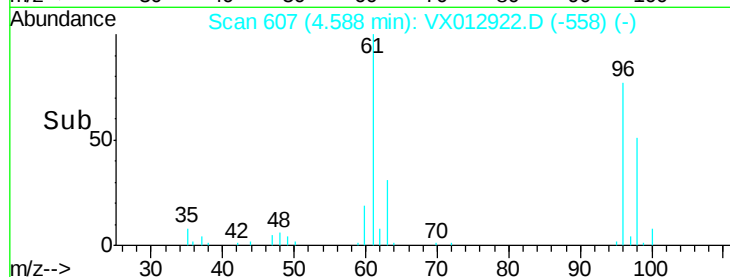
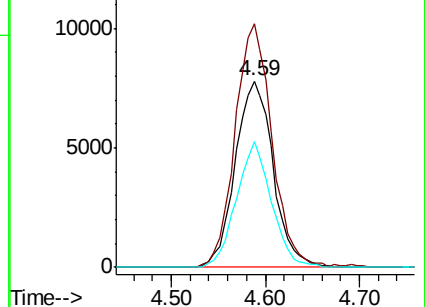
98 62.2 0.0 128.8



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



#28

Bromochloromethane

Concen: Below Cal

RT: 5.18 min Scan# 704

Delta R.T. 0.17 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

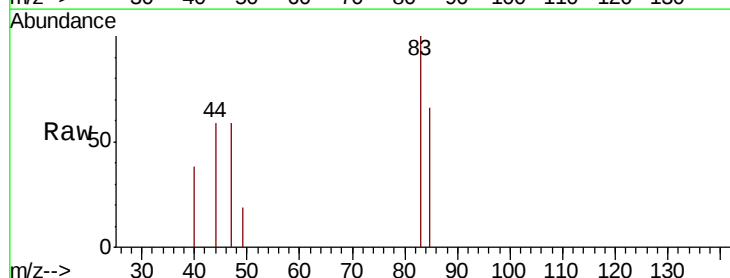
Tgt Ion: 49 Resp: 57

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

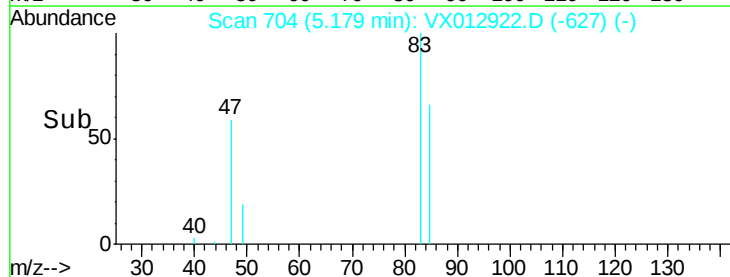
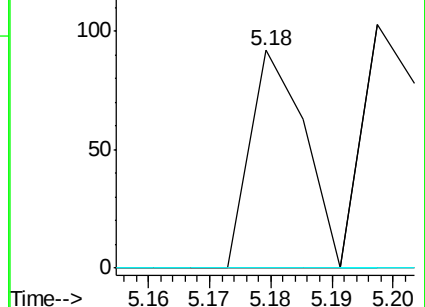
130 0.0 62.1 93.1#

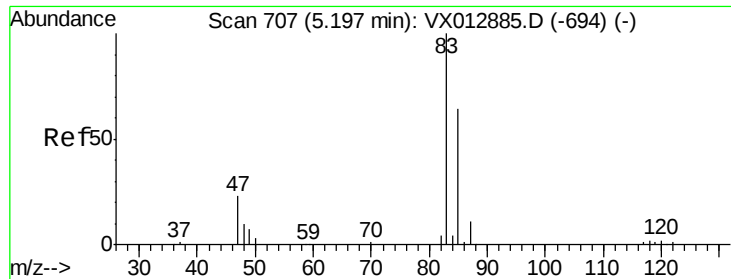


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

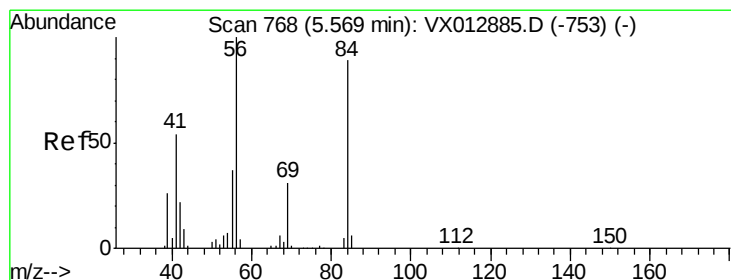
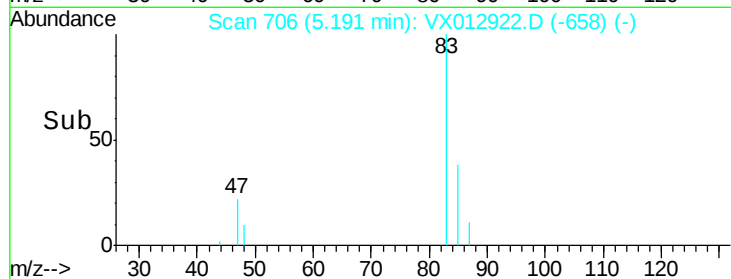
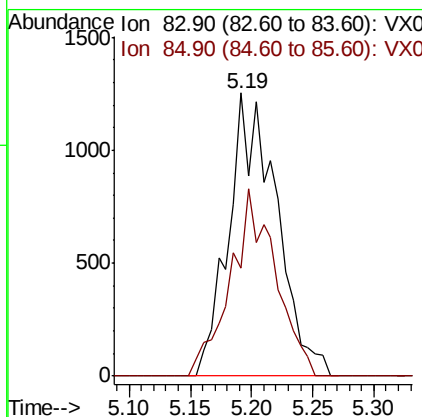
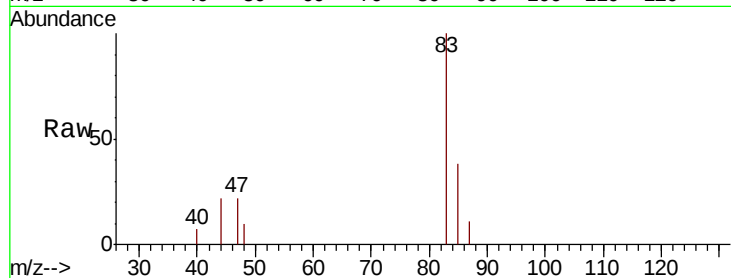




#30
Chloroform
Concen: 0.917 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

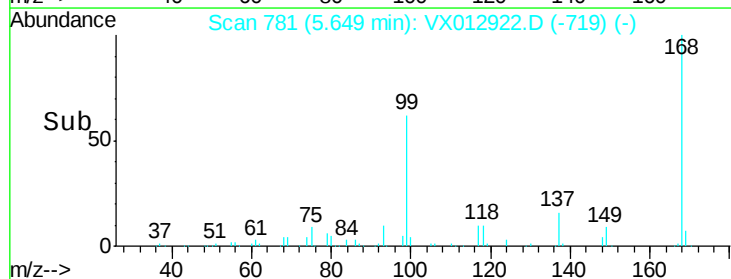
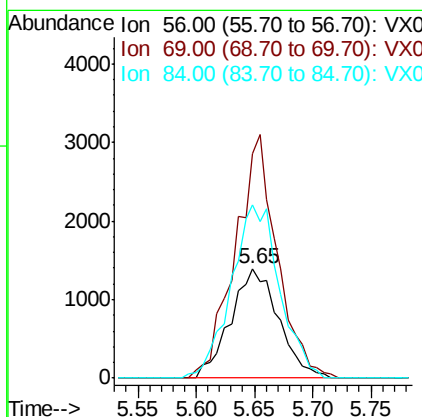
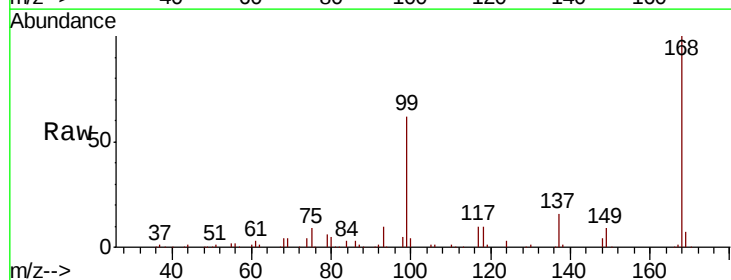
Instrument :
MSVOA_X
ClientSampled :
MW-101D

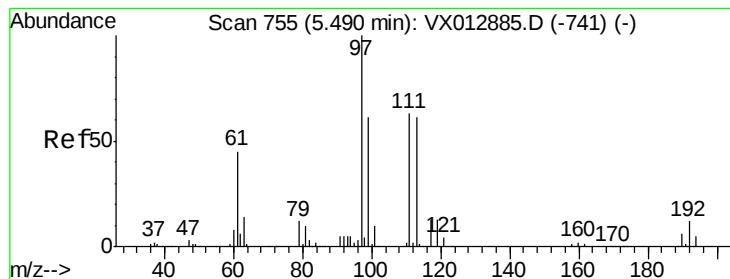
Tot Ion: 83 Resp: 3395
Ion Ratio Lower Upper
83 100
85 38.1 51.5 77.3#



#31
Cyclohexane
Concen: 1.177 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Tgt Ion: 56 Resp: 3973
Ion Ratio Lower Upper
56 100
69 204.8 25.2 37.8#
84 158.2 71.3 106.9#





#32

1,1,1-Trichloroethane

Concen: 3.724 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

MW-101D

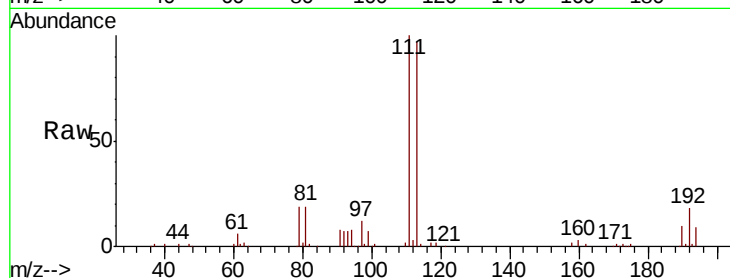
Tot Ion: 97 Resp: 11689

Ion Ratio Lower Upper

97 100

99 64.6 52.3 78.5

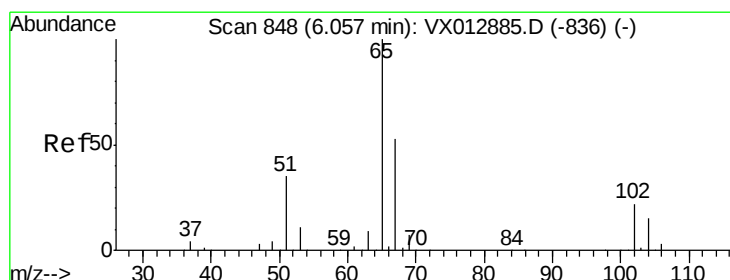
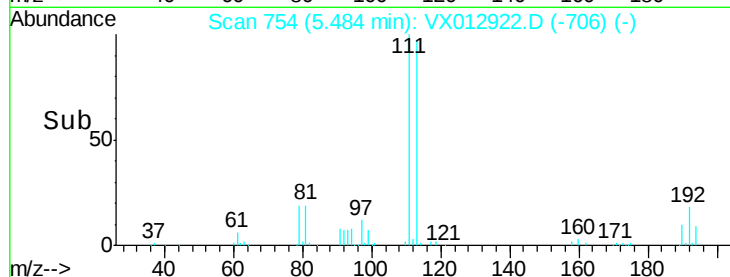
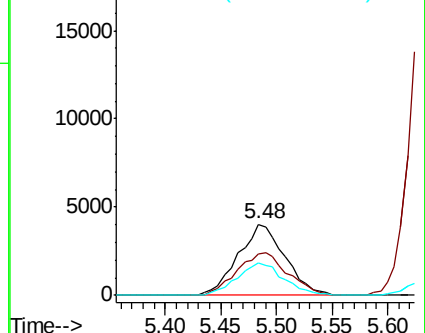
61 45.3 35.0 52.4



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.800 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012922.D

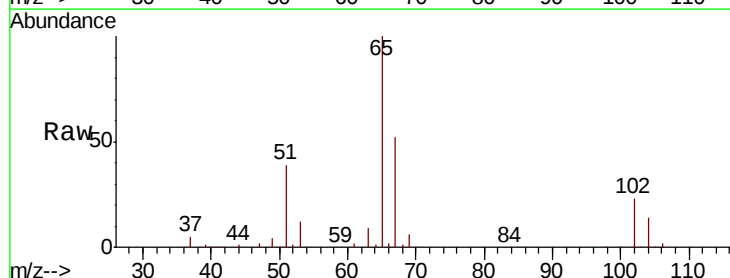
Acq: 09 Oct 2019 05:05

Tgt Ion: 65 Resp: 120471

Ion Ratio Lower Upper

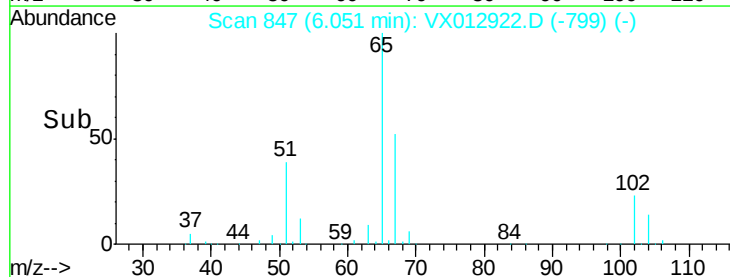
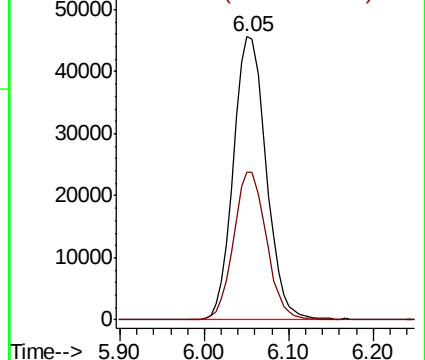
65 100

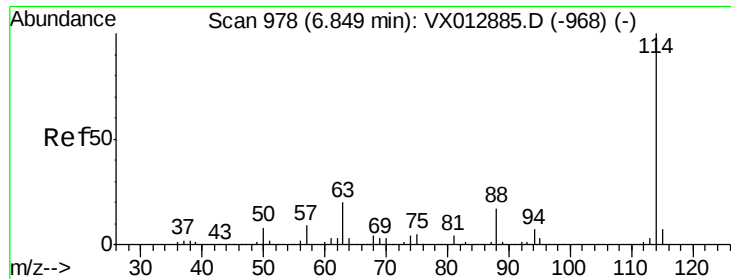
67 52.2 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

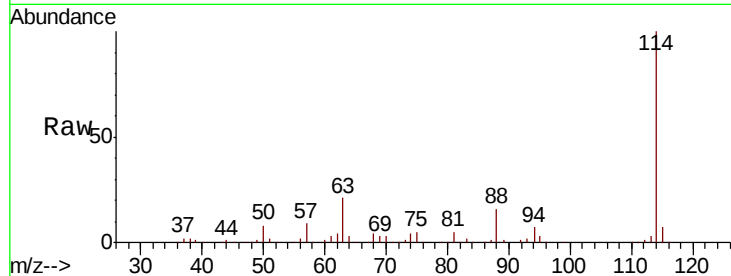




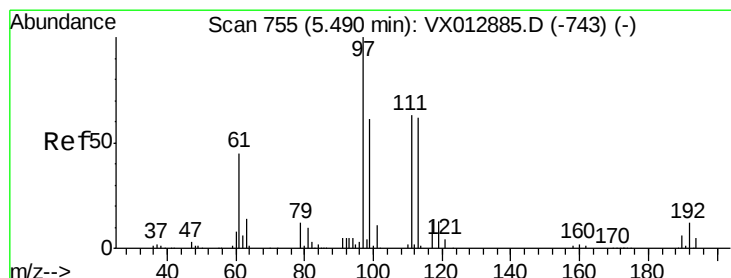
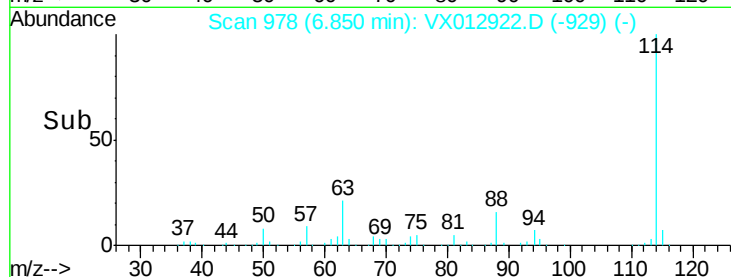
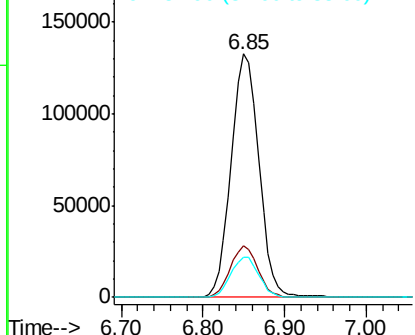
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012922.D
 Acq: 09 Oct 2019 05:05

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-101D

Tot Ion:114 Resp: 312464
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.8
 88 16.4 0.0 33.8

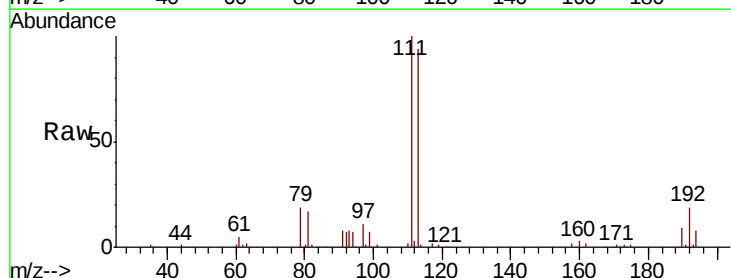


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

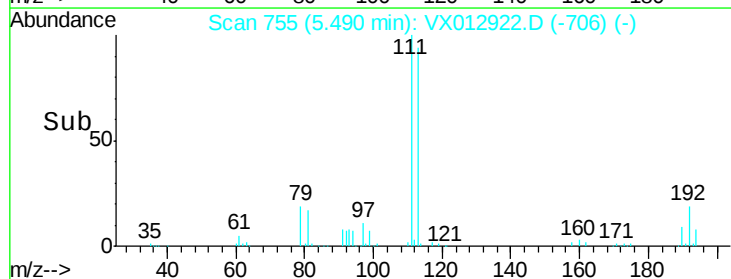
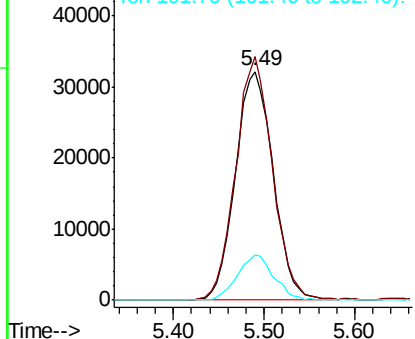


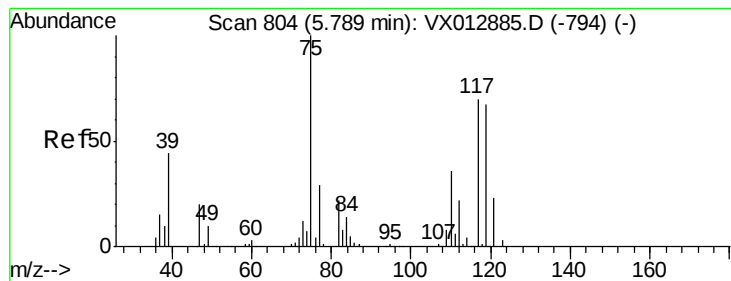
#35
 Dibromofluoromethane
 Concen: 51.932 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012922.D
 Acq: 09 Oct 2019 05:05

Tgt Ion:113 Resp: 93134
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.2 124.8
 192 18.9 15.4 23.2



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: 5.459 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

MW-101D

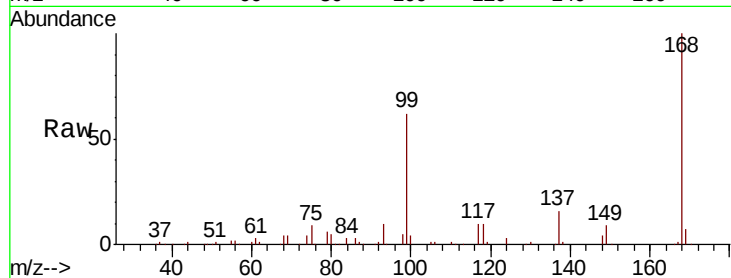
Tot Ion: 75 Resp: 14998

Ion Ratio Lower Upper

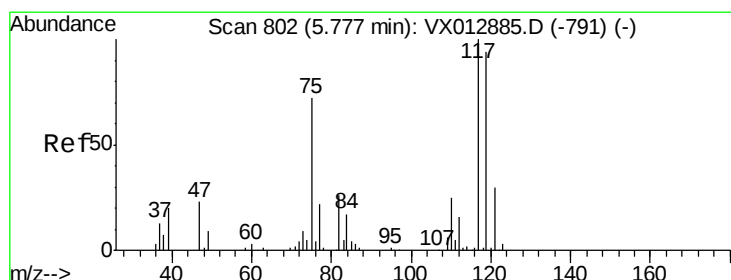
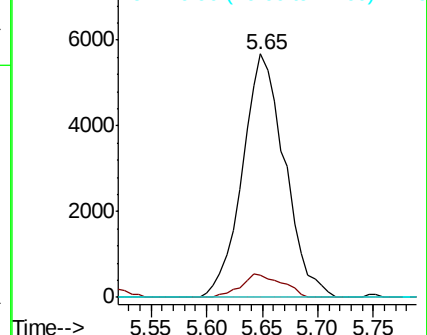
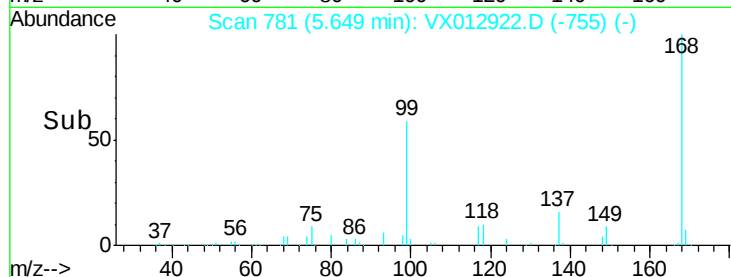
75 100

110 9.2 17.6 52.9#

77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX012922.D (-755) (-)



#38

Carbon Tetrachloride

Concen: 7.355 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

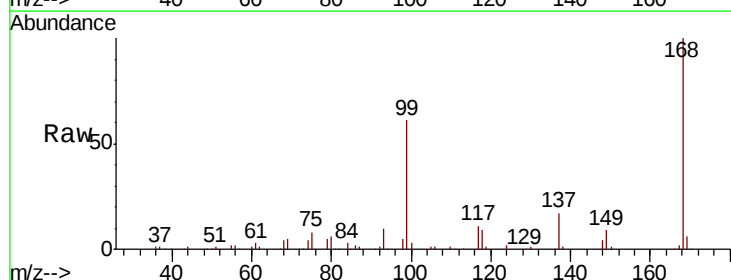
Tgt Ion: 117 Resp: 19667

Ion Ratio Lower Upper

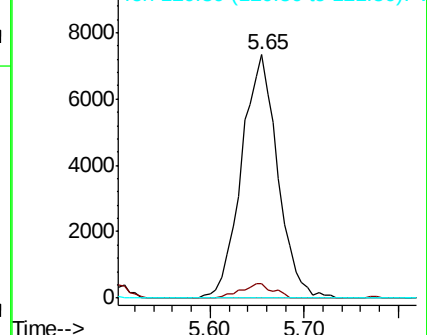
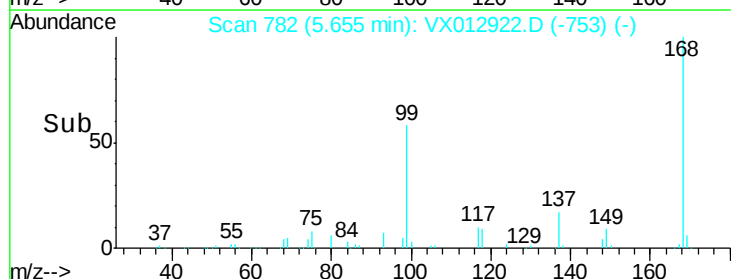
117 100

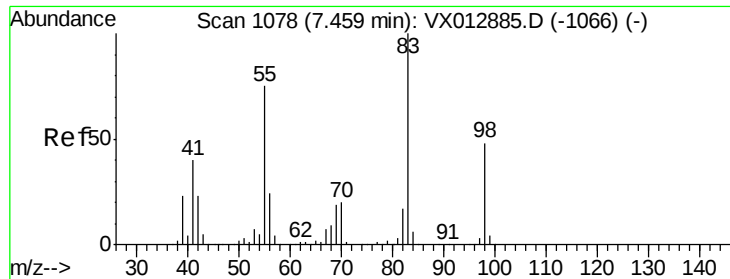
119 5.9 74.5 111.7#

121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): VX012922.D (-753) (-)

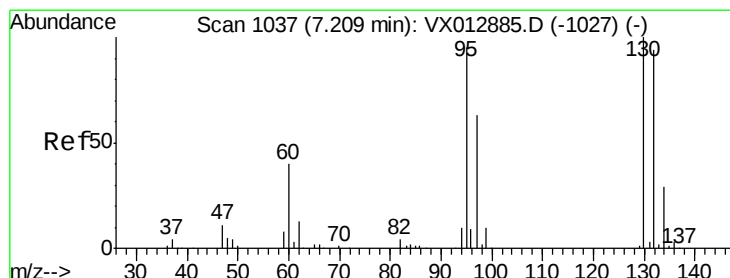
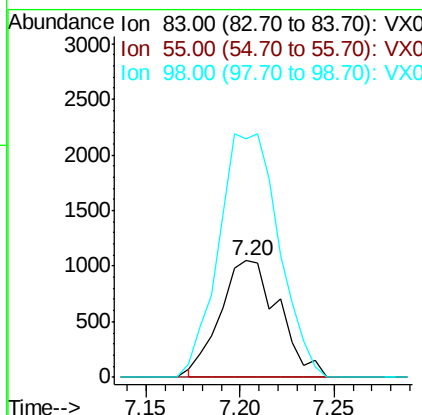
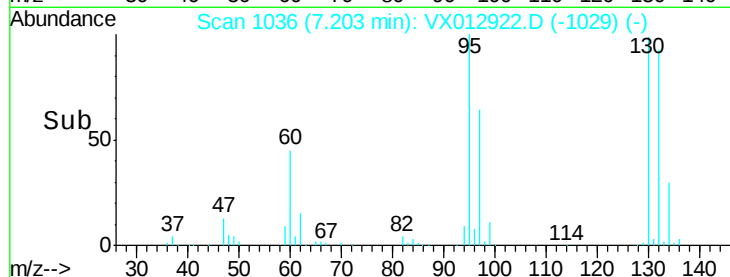
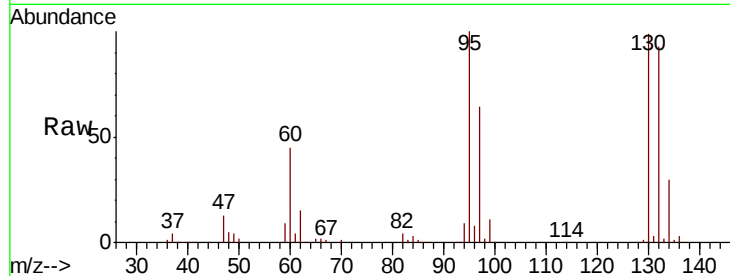




#39
Methvlcvclohexane
Concen: 0.676 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.26 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

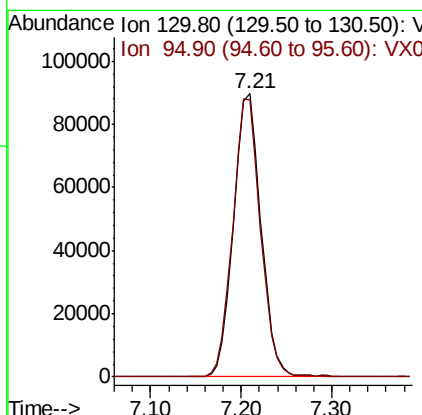
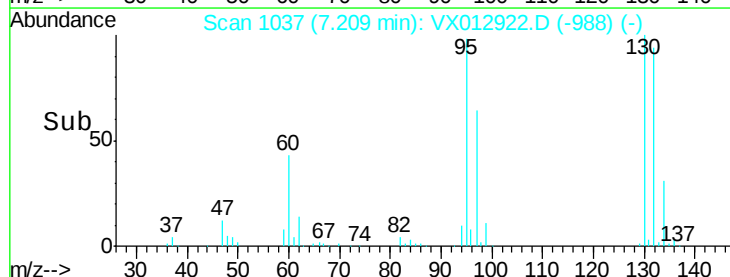
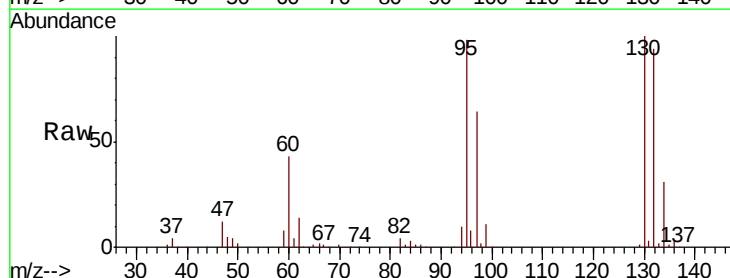
Instrument :
MSVOA_X
ClientSampled :
MW-101D

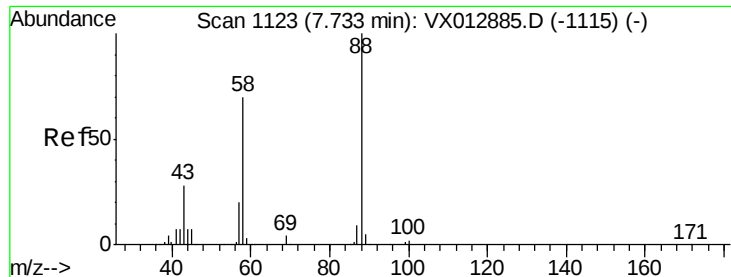
Tot Ion: 83 Resp: 2251
Ion Ratio Lower Upper
83 100
55 0.0 60.2 90.4#
98 204.7 38.5 57.7#



#44
Trichloroethene
Concen: 83.985 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Tgt Ion:130 Resp: 188967
Ion Ratio Lower Upper
130 100
95 98.0 0.0 189.2

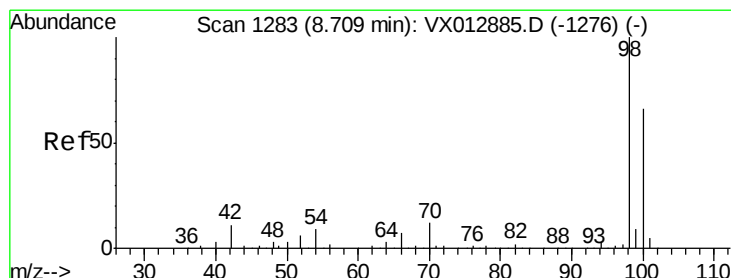
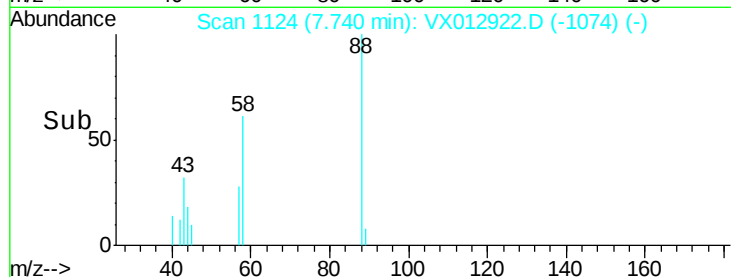
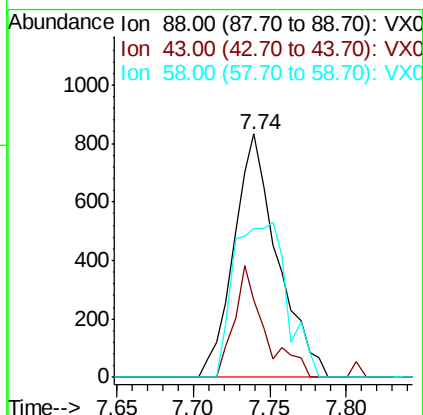
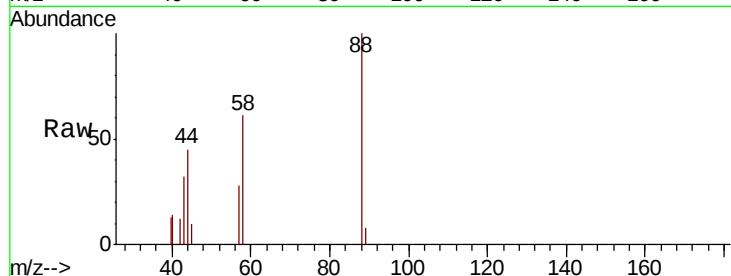




#49
1,4-Dioxane
Concen: 59.777 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

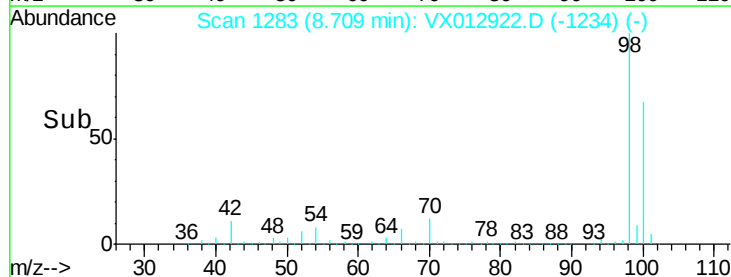
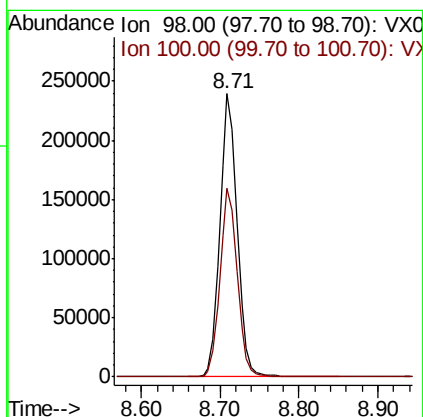
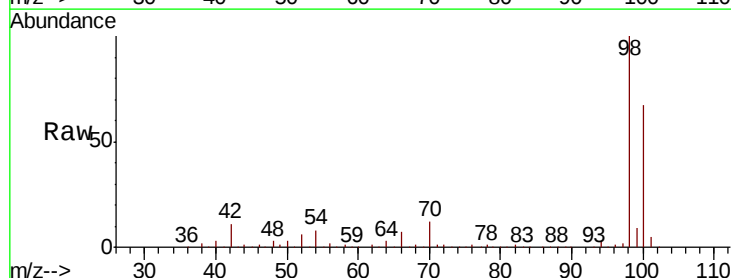
Instrument :
MSVOA_X
ClientSampled :
MW-101D

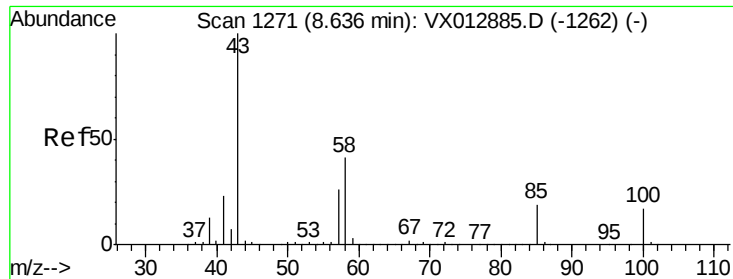
Tot Ion: 88 Resp: 1650
Ion Ratio Lower Upper
88 100
43 31.8 25.0 37.6
58 77.5 55.4 83.2



#50
Toluene-d8
Concen: 52.202 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Tgt Ion: 98 Resp: 365133
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.484 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampled :

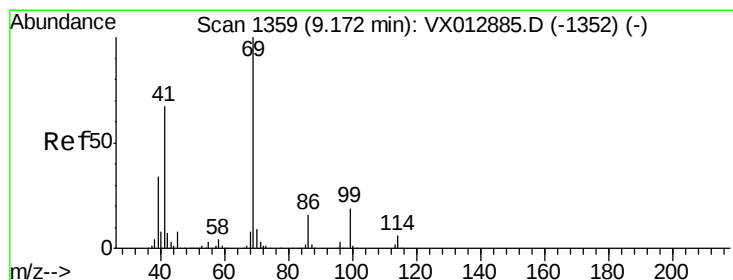
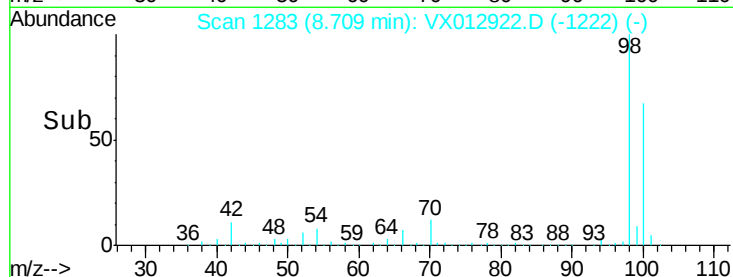
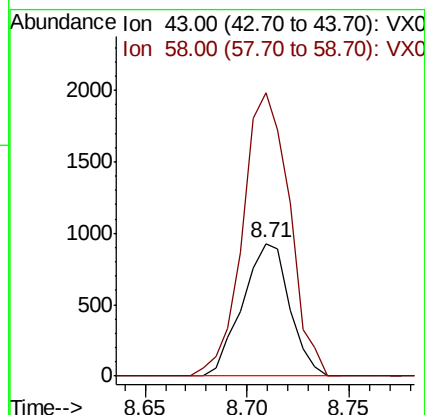
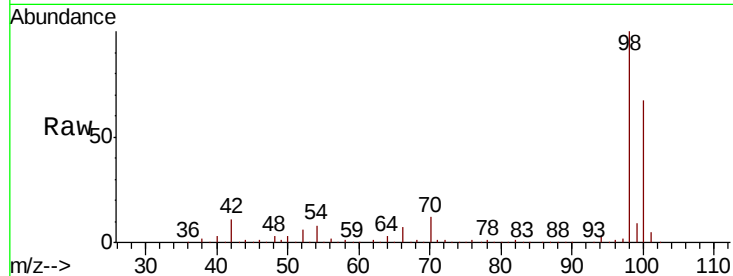
MW-101D

Tot Ion: 43 Resp: 1489

Ion Ratio Lower Upper

43 100

58 212.2 32.4 48.6#



#56

Ethyl methacrylate

Concen: 1.841 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.16 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

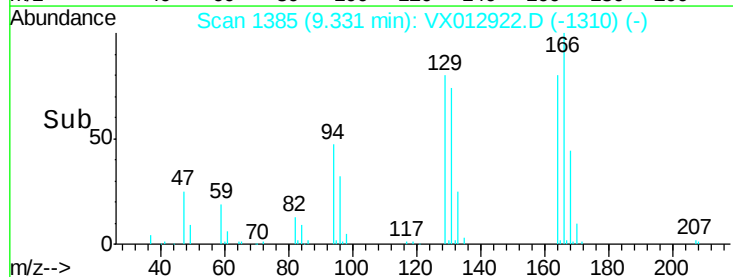
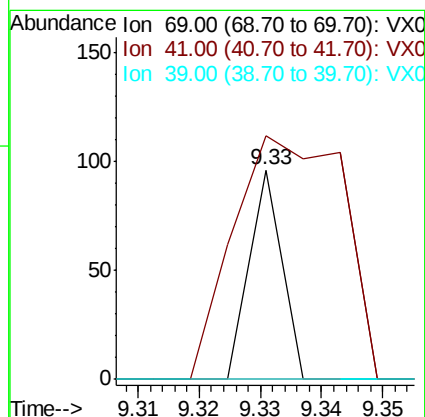
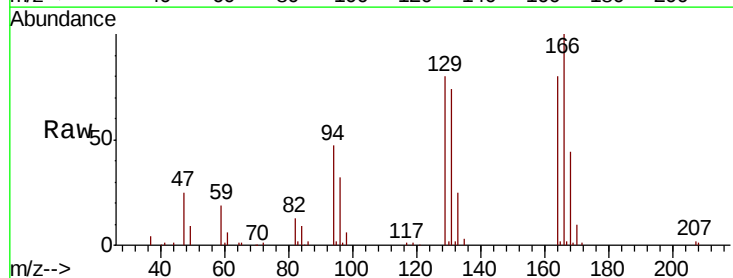
Tgt Ion: 69 Resp: 35

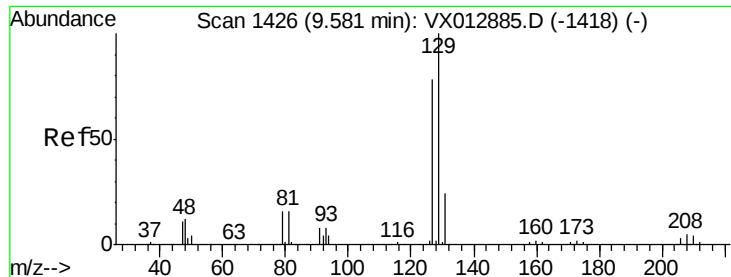
Ion Ratio Lower Upper

69 100

41 397.1 52.1 78.1#

39 0.0 27.8 41.8#





#60

Dibromochloromethane

Concen: 12.230 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

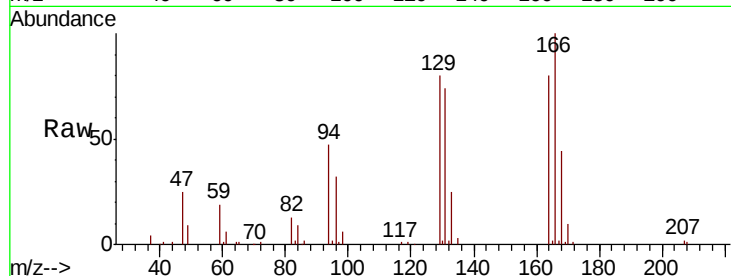
MW-101D

Tot Ion:129 Resp: 24628

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

15000

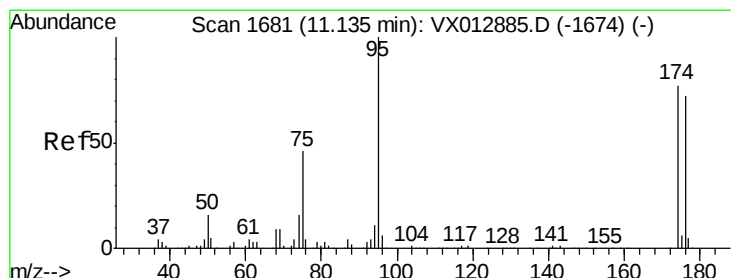
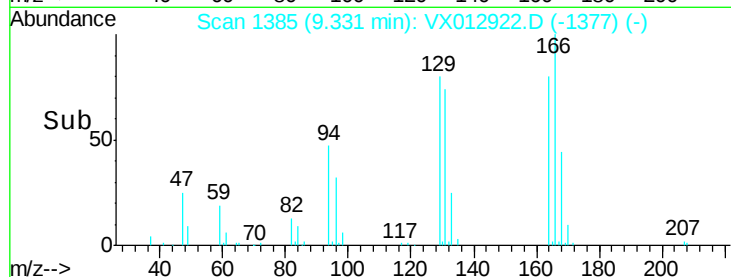
10000

5000

0

Time-->

9.25 9.30 9.35 9.40 9.45



#62

4-Bromofluorobenzene

Concen: 47.358 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

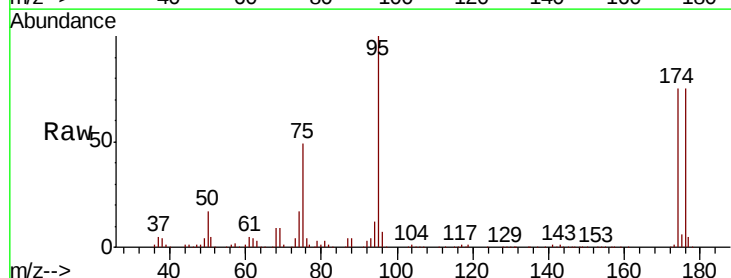
Tgt Ion: 95 Resp: 128709

Ion Ratio Lower Upper

95 100

174 71.4 0.0 143.4

176 69.4 0.0 136.0



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

11.14

120000

100000

80000

60000

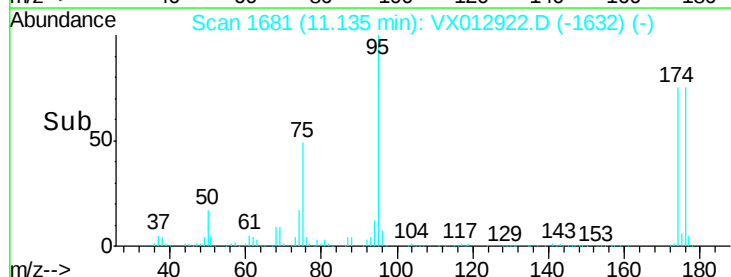
40000

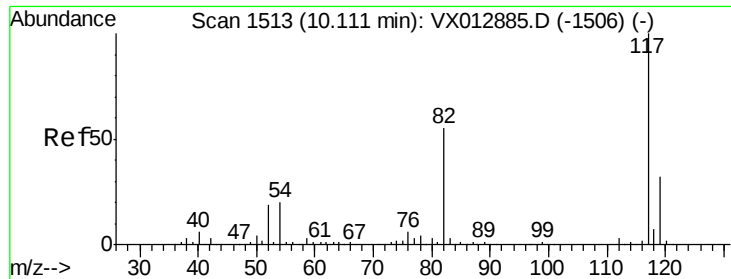
20000

0

Time-->

11.10 11.15 11.20

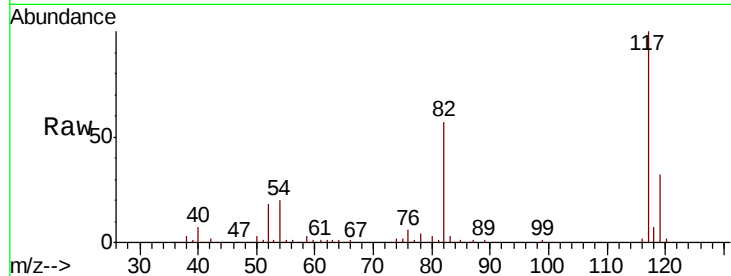




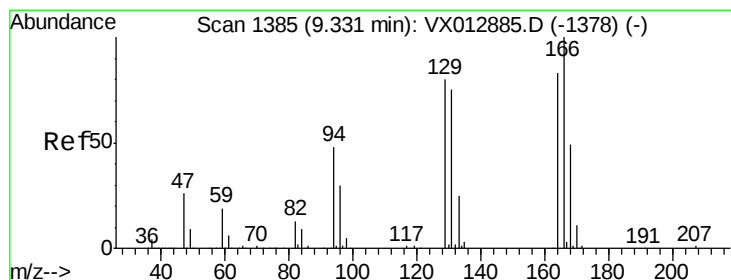
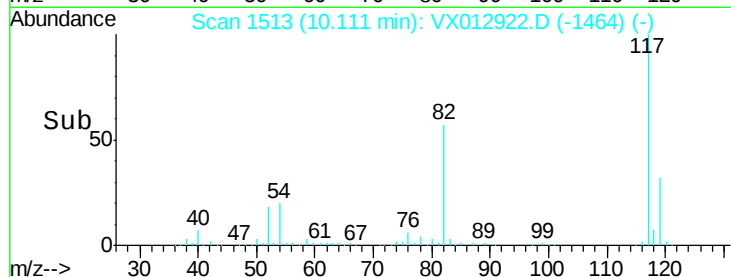
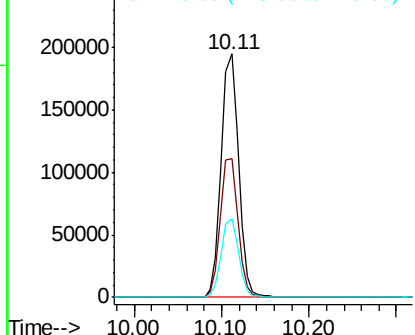
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Instrument :
MSVOA_X
ClientSampled :
MW-101D

Tot Ion:117 Resp: 268554
Ion Ratio Lower Upper
117 100
82 57.1 44.1 66.1
119 32.3 25.8 38.8

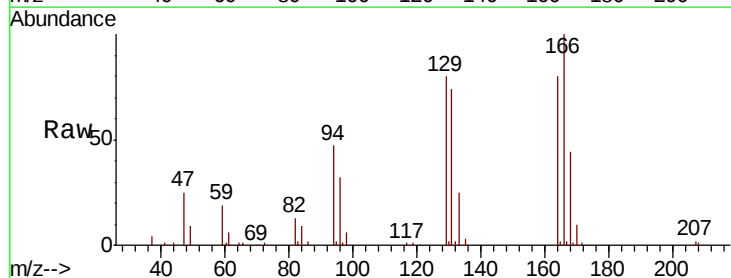


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

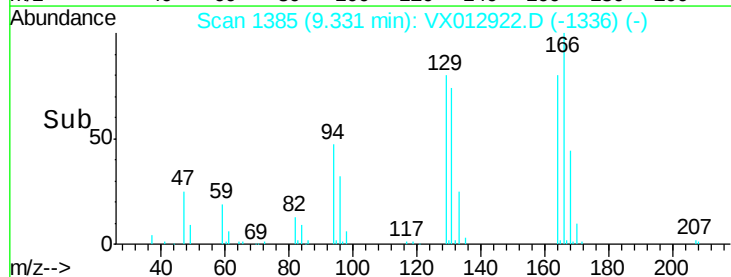
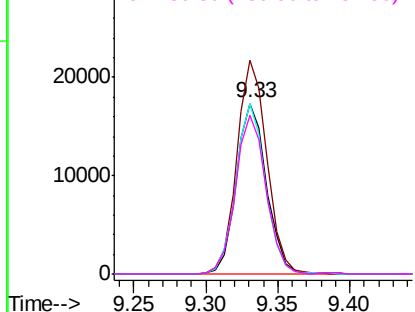


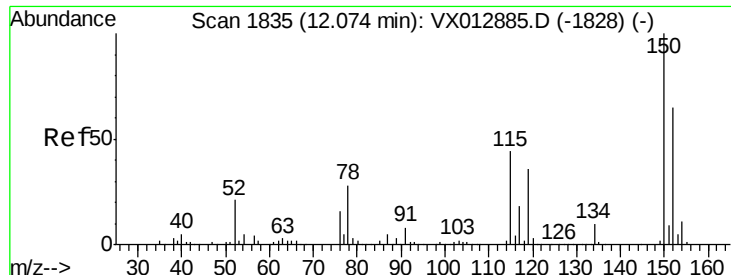
#64
Tetrachloroethene
Concen: 13.536 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012922.D
Acq: 09 Oct 2019 05:05

Tgt Ion:164 Resp: 25213
Ion Ratio Lower Upper
164 100
166 125.4 96.9 145.3
129 99.9 77.9 116.9
131 93.4 72.7 109.1



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

MW-101D

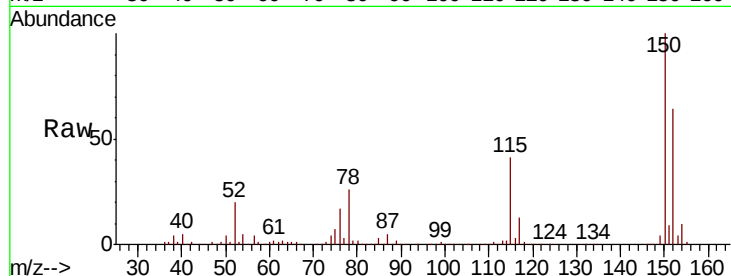
Tot Ion:152 Resp: 109320

Ion Ratio Lower Upper

152 100

115 63.4 44.5 133.5

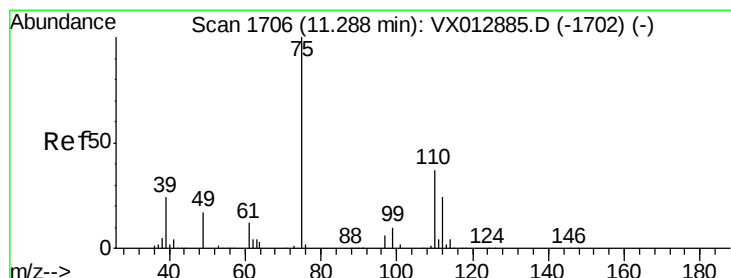
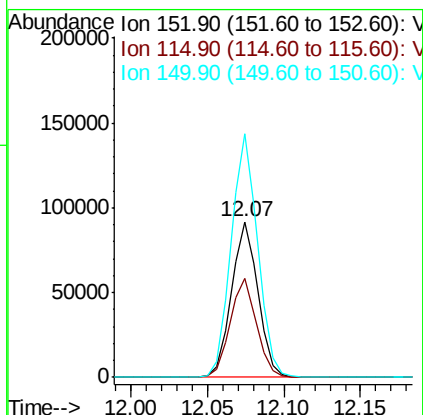
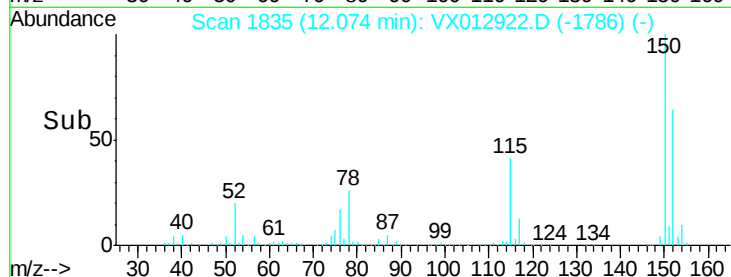
150 157.1 0.0 353.4



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: 26.043 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012922.D

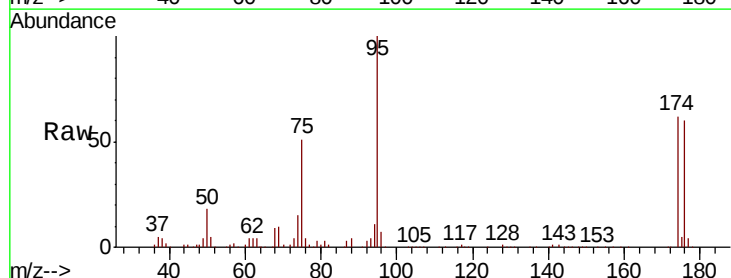
Acq: 09 Oct 2019 05:05

Tgt Ion: 75 Resp: 63146

Ion Ratio Lower Upper

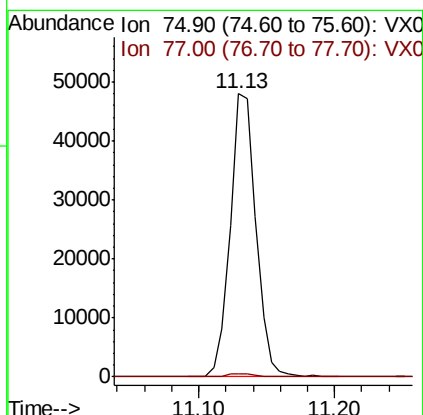
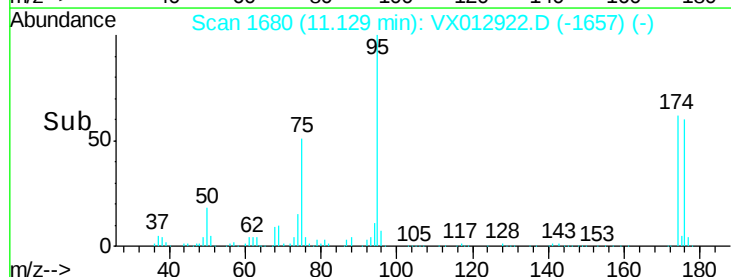
75 100

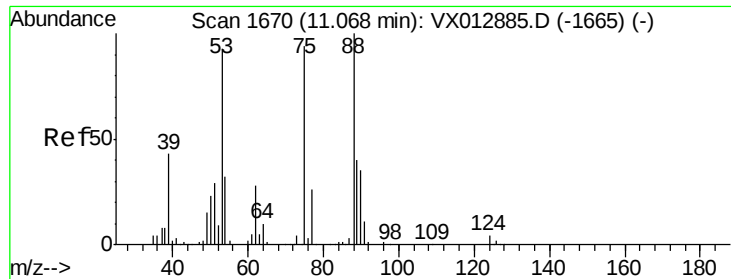
77 1.3 22.9 68.8#



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: 65.582 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012922.D

Acq: 09 Oct 2019 05:05

Instrument :

MSVOA_X

ClientSampleId :

MW-101D

Tot Ion: 75 Resp: 63146

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

