

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX032919\
 Data File : VX008546.D
 Acq On : 29 Mar 2019 16:13
 Operator : JC/SP
 Sample : K2088-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-104

Quant Time: Mar 29 23:45:33 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	5.67	168	225448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	374576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	318684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129502	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	155947	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
35) Dibromofluoromethane	5.50	113	114431	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
50) Toluene-d8	8.71	98	469500	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
62) 4-Bromofluorobenzene	11.13	95	155686	43.02	ug/l	0.00
Spiked Amount			Recovery	=	86.04%	

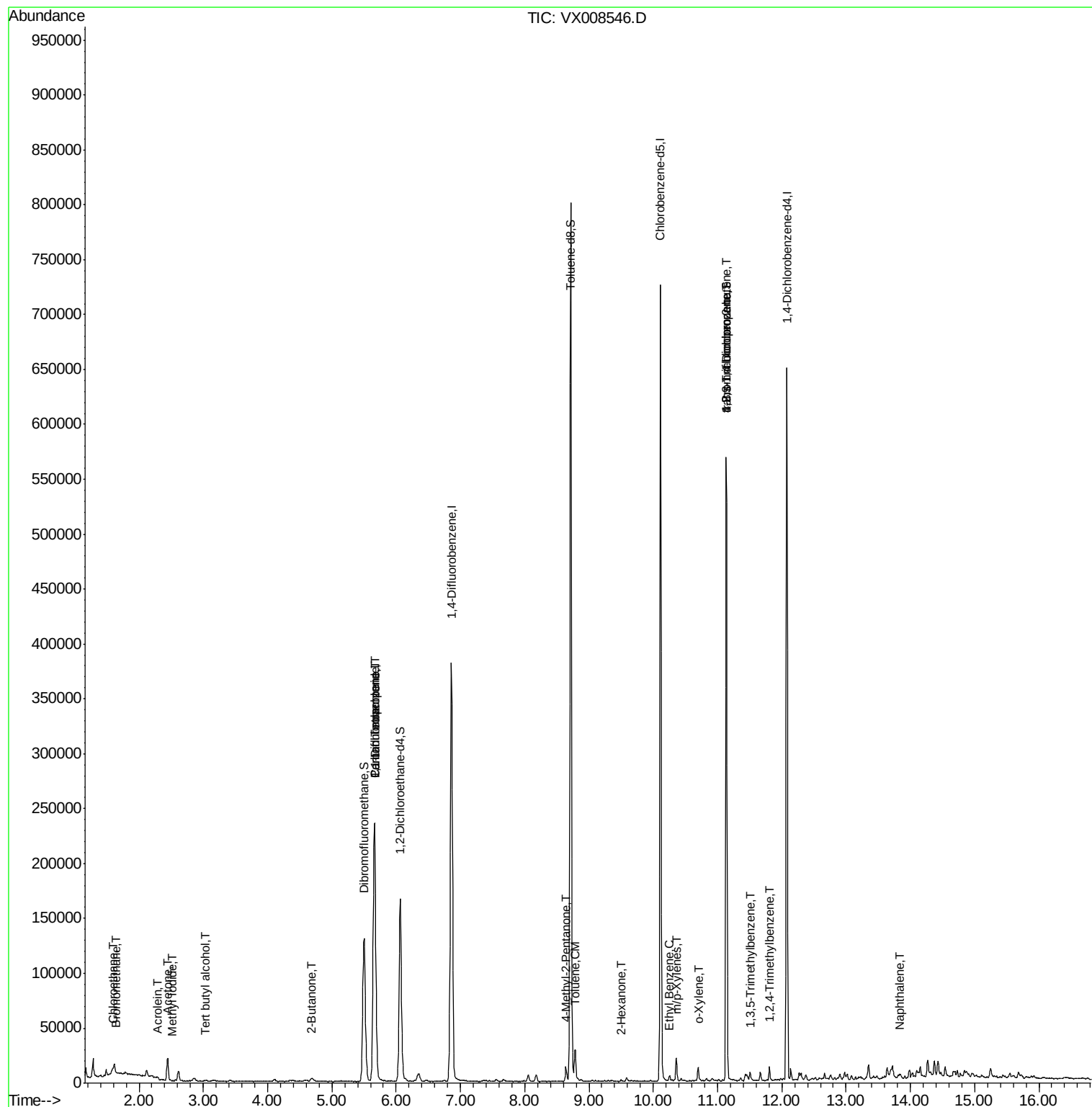
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	596	Below Cal		89
5) Bromomethane	1.64	94	317	1.965	ug/l	85
6) Chloroethane	1.59	64	8043	3.659	ug/l #	58
10) Methyl Iodide	2.53	142	290	4.237	ug/l #	80
11) Tert butyl alcohol	3.04	59	1171	1.546	ug/l #	80
13) Acrolein	2.29	56	590	1.073	ug/l	87
16) Acetone	2.45	43	22735	12.727	ug/l	95
17) Carbon Disulfide	2.57	76	1318	Below Cal	#	86
20) Methylene Chloride	2.85	84	1102	Below Cal	#	88
21) trans-1,2-Dichloroethene	3.16	96	45	Below Cal	#	13
25) 2-Butanone	4.69	43	5645	1.971	ug/l	95
36) 1,1-Dichloropropene	5.67	75	18890	4.730	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22447	6.735	ug/l #	16
51) 4-Methyl-2-Pentanone	8.64	43	8647	1.609	ug/l	100
52) Toluene	8.78	92	9694	1.356	ug/l	100
59) 2-Hexanone	9.50	43	891	0.214	ug/l	94
67) Ethyl Benzene	10.25	91	2773	0.212	ug/l	95
68) m/p-Xylenes	10.36	106	4678	0.983	ug/l	98
69) o-Xylene	10.70	106	2645	0.573	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	79454	20.637	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	2889	0.324	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	79454	66.099	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	4844	0.538	ug/l	95
95) Naphthalene	13.83	128	2310	0.219	ug/l #	89

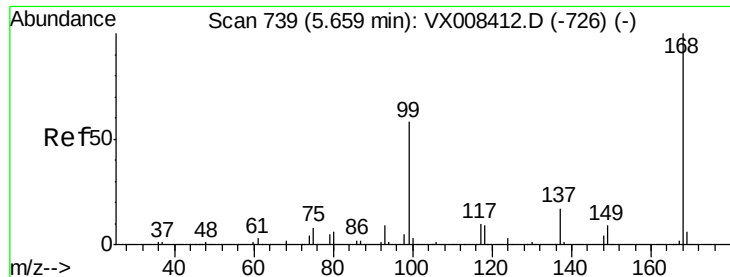
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

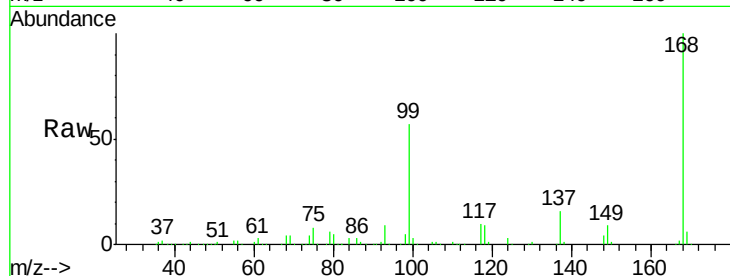
MW-104

Tgt Ion:168 Resp: 225448

Ion Ratio Lower Upper

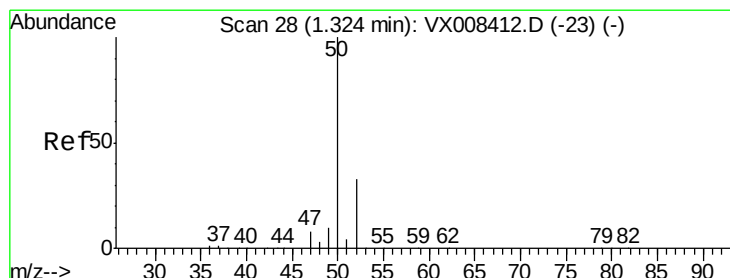
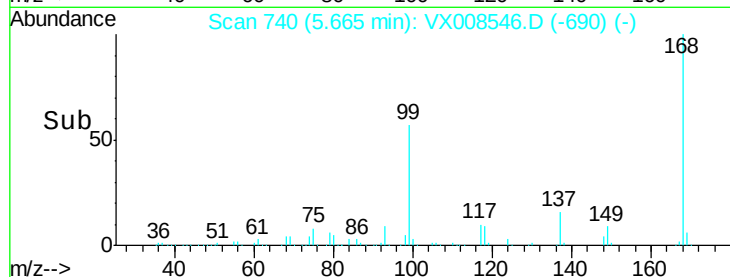
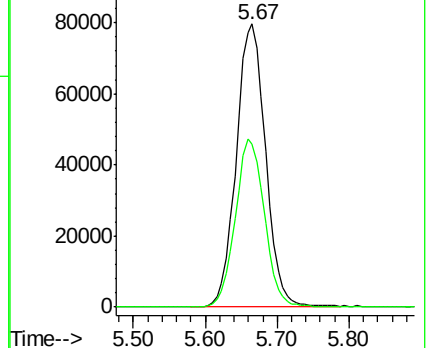
168 100

99 57.4 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008546.D

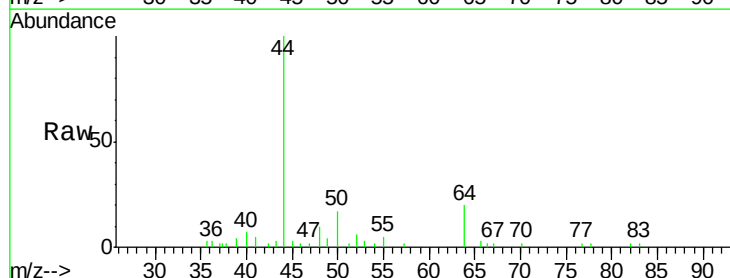
Acq: 29 Mar 2019 16:13

Tgt Ion: 50 Resp: 596

Ion Ratio Lower Upper

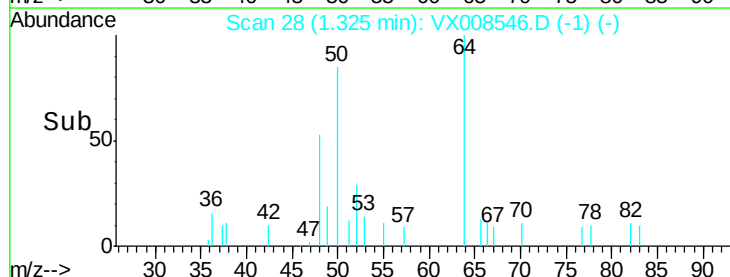
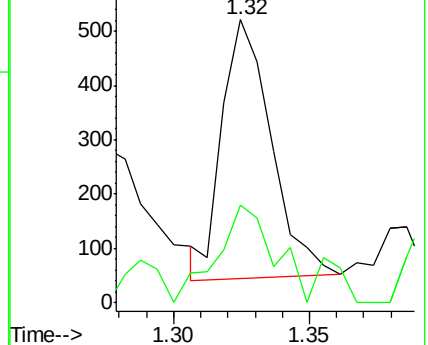
50 100

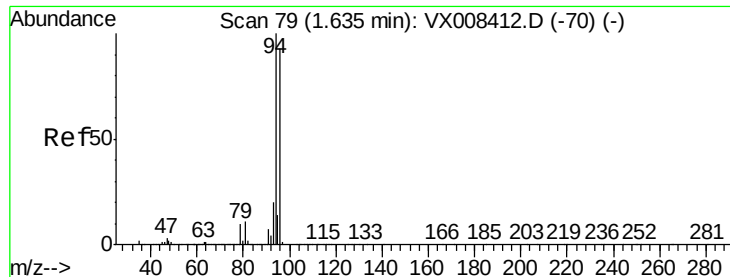
52 26.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.965 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampled :

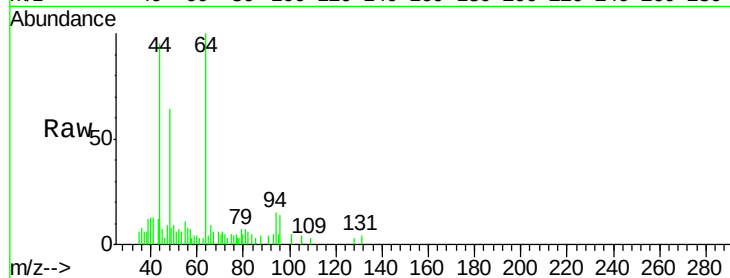
MW-104

Tgt Ion: 94 Resp: 317

Ion Ratio Lower Upper

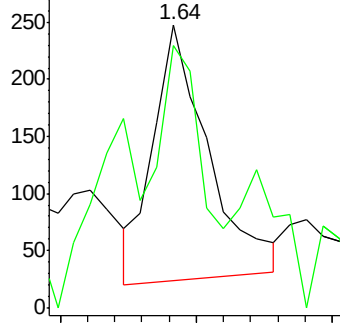
94 100

96 79.1 74.8 112.2

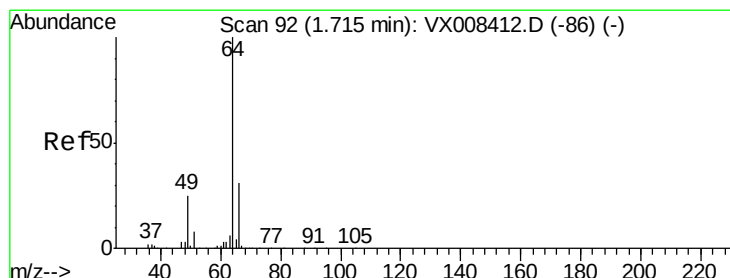
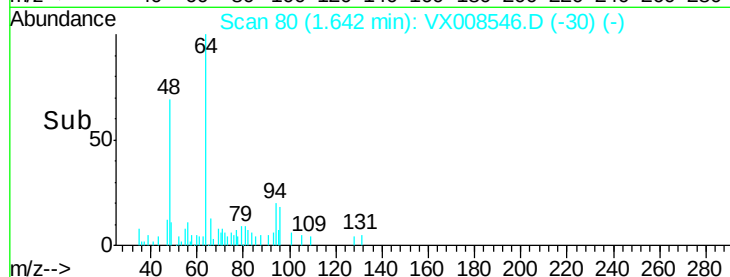


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 3.659 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX008546.D

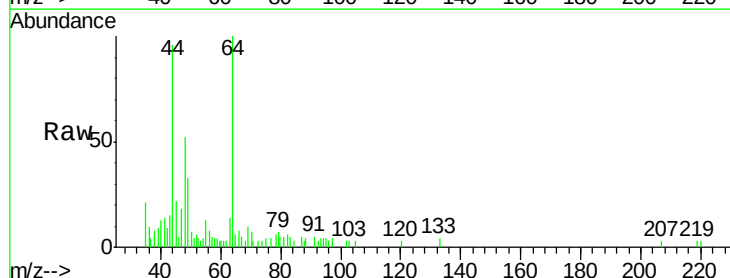
Acq: 29 Mar 2019 16:13

Tgt Ion: 64 Resp: 8043

Ion Ratio Lower Upper

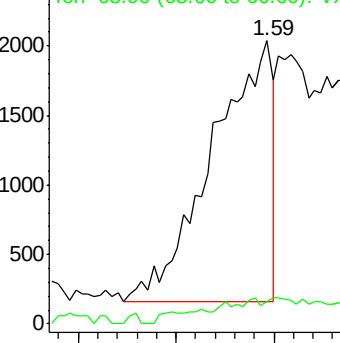
64 100

66 8.3 25.1 37.7#

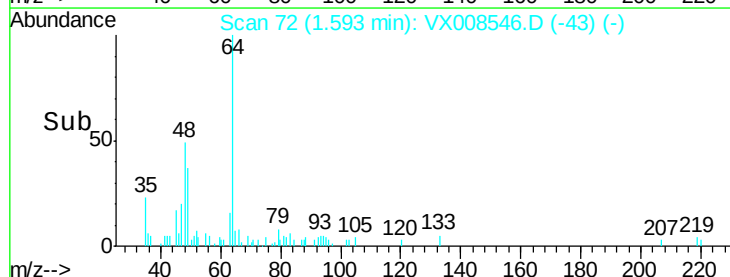


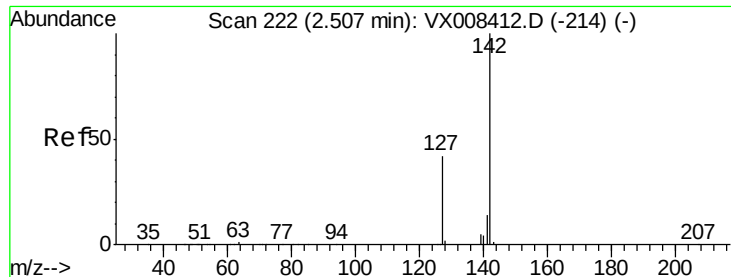
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

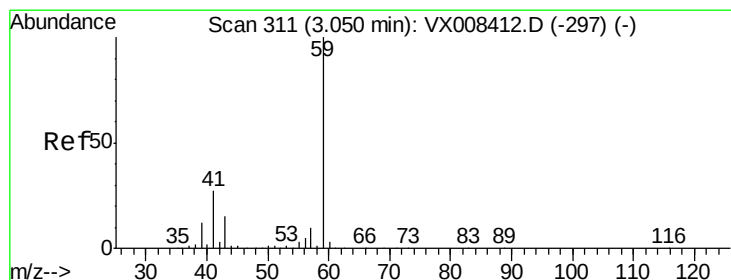
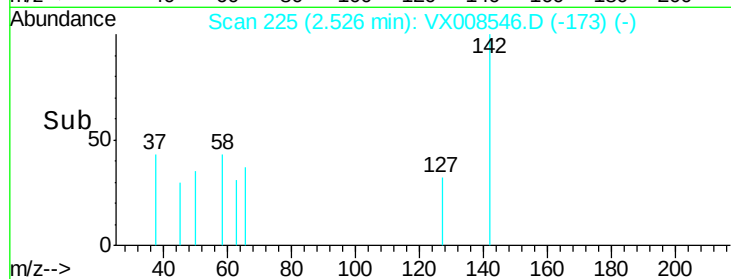
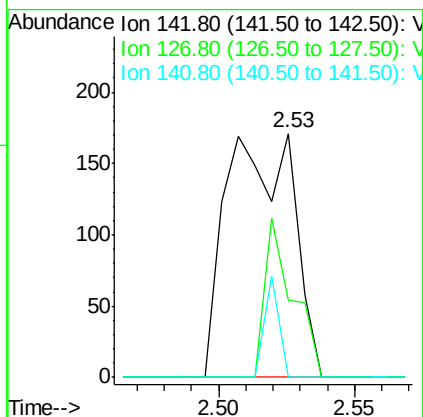
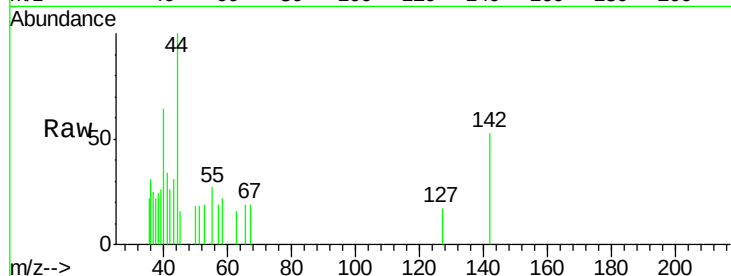




#10
Methyl Iodide
Concen: 4.237 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

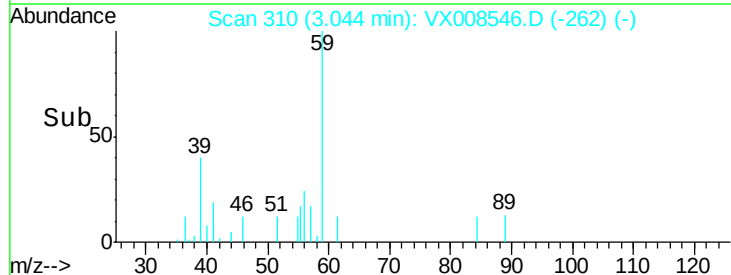
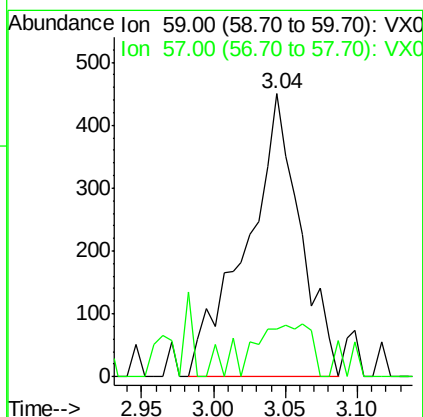
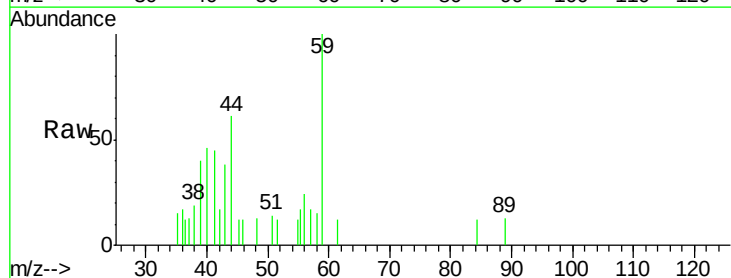
Instrument :
MSVOA_X
ClientSampleId :
MW-104

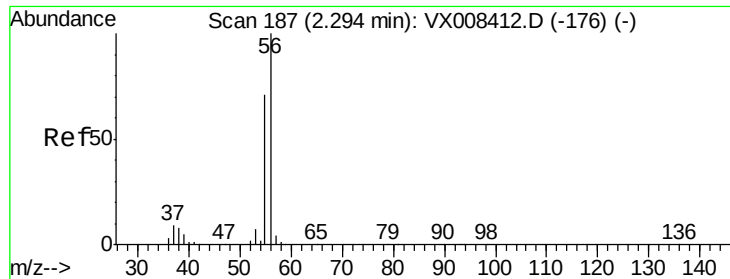
Tgt Ion: 142 Resp: 290
Ion Ratio Lower Upper
142 100
127 27.6 33.6 50.4#
141 9.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.546 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 59 Resp: 1171
Ion Ratio Lower Upper
59 100
57 17.8 8.2 12.4#





#13

Acrolein

Concen: 1.073 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

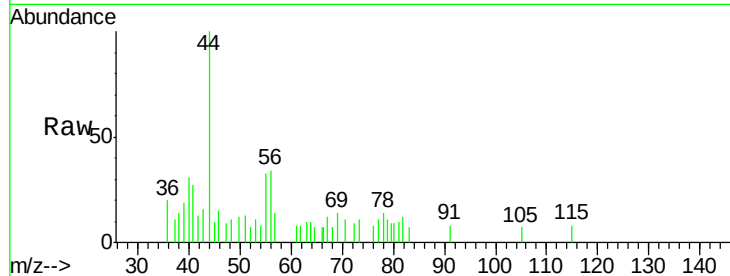
MW-104

Tgt Ion: 56 Resp: 590

Ion Ratio Lower Upper

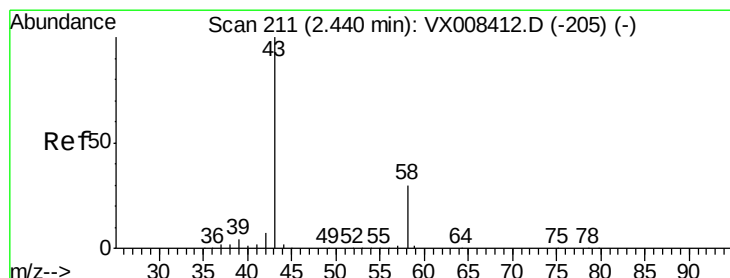
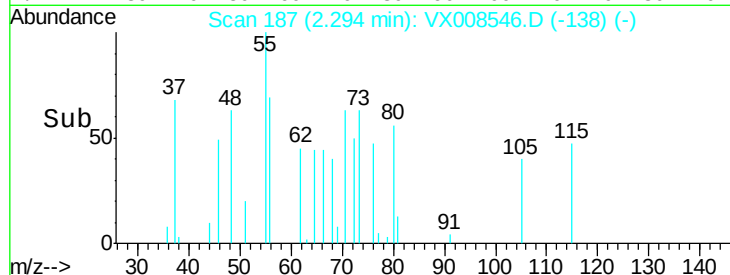
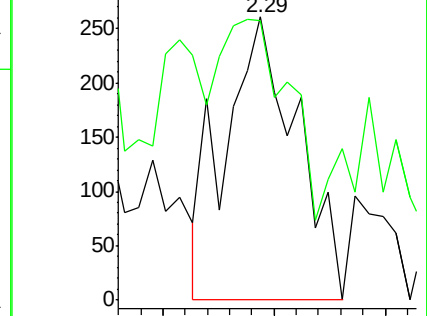
56 100

55 59.7 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 12.727 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX008546.D

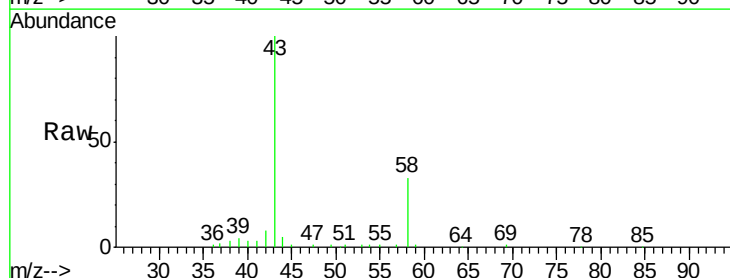
Acq: 29 Mar 2019 16:13

Tgt Ion: 43 Resp: 22735

Ion Ratio Lower Upper

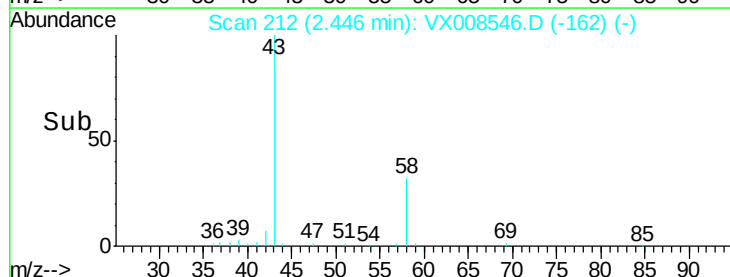
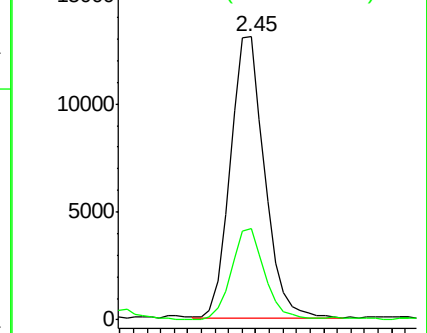
43 100

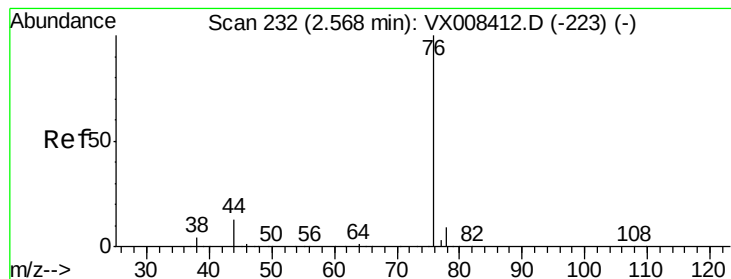
58 32.7 24.2 36.2



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: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

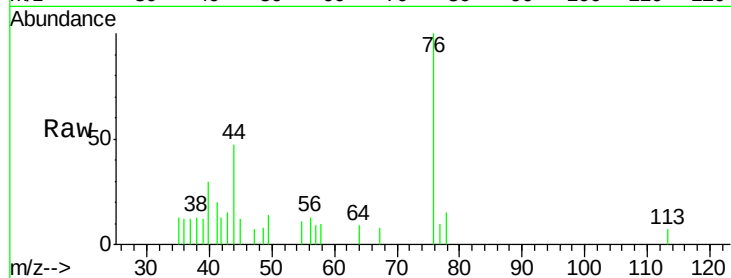
MW-104

Tgt Ion: 76 Resp: 1318

Ion Ratio Lower Upper

76 100

78 14.6 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

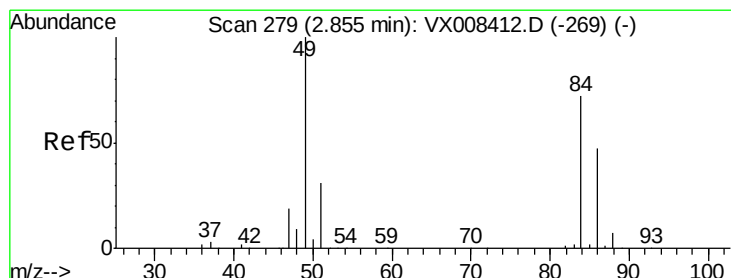
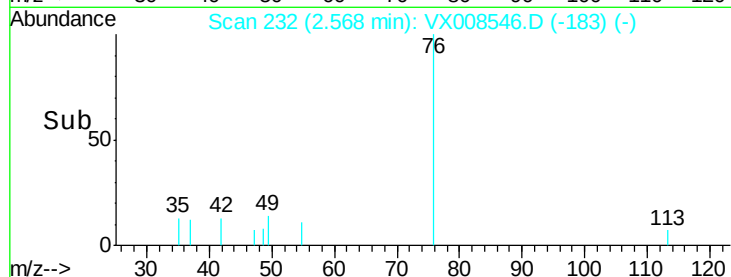
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Tgt Ion: 84 Resp: 1102

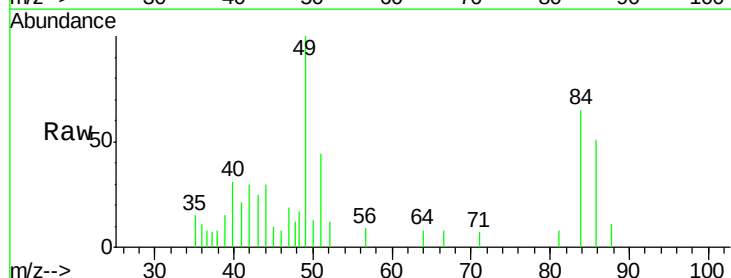
Ion Ratio Lower Upper

84 100

49 139.6 110.6 165.8

51 67.1 33.9 50.9#

86 78.5 52.2 78.2#



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

1000

800

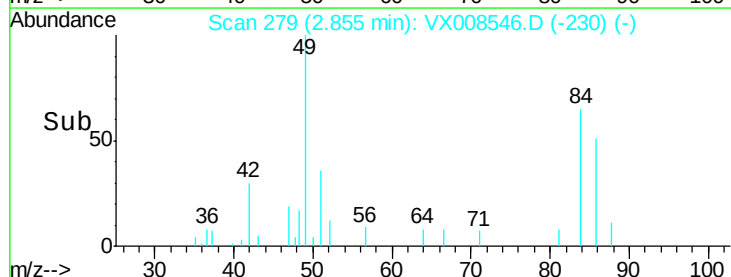
600

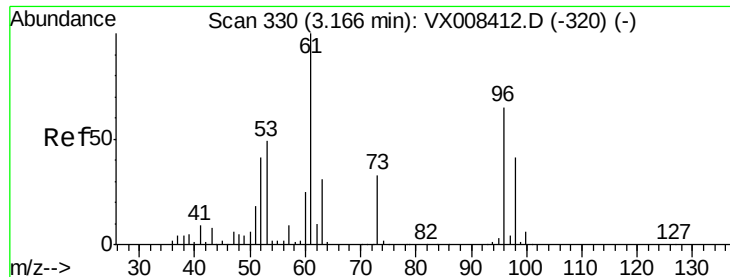
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampled :

MW-104

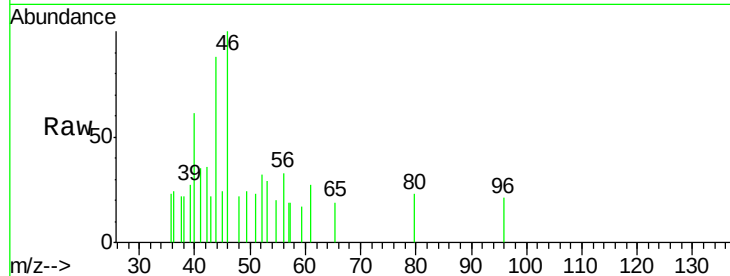
Tgt Ion: 96 Resp: 45

Ion Ratio Lower Upper

96 100

61 38.1 122.6 184.0#

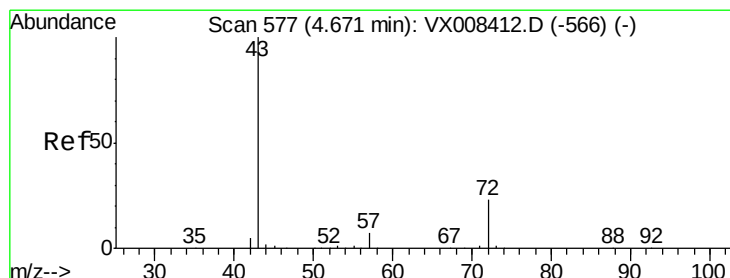
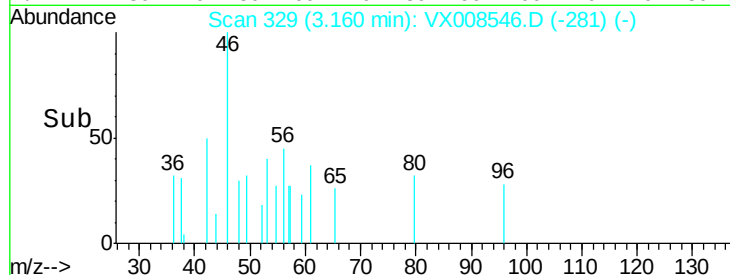
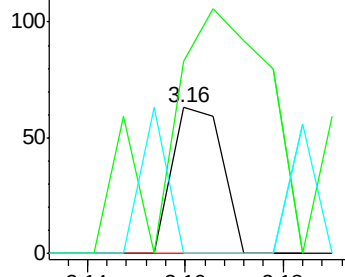
98 0.0 50.9 76.3#



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



#25

2-Butanone

Concen: 1.971 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008546.D

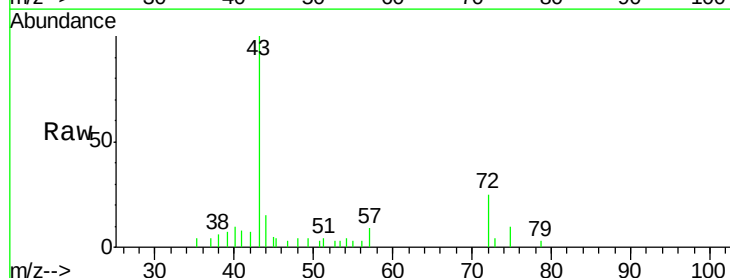
Acq: 29 Mar 2019 16:13

Tgt Ion: 43 Resp: 5645

Ion Ratio Lower Upper

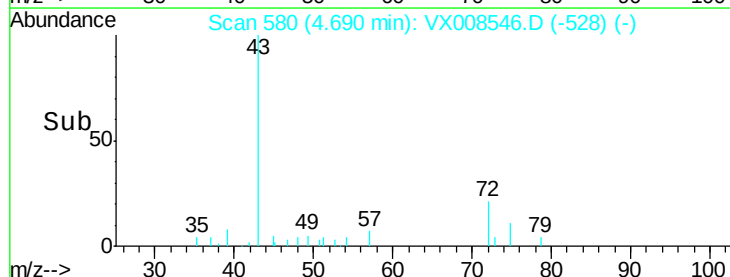
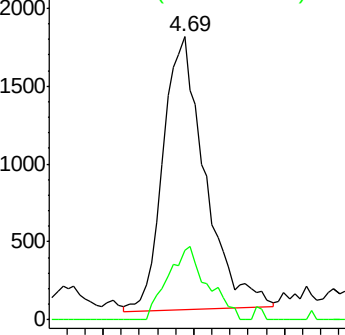
43 100

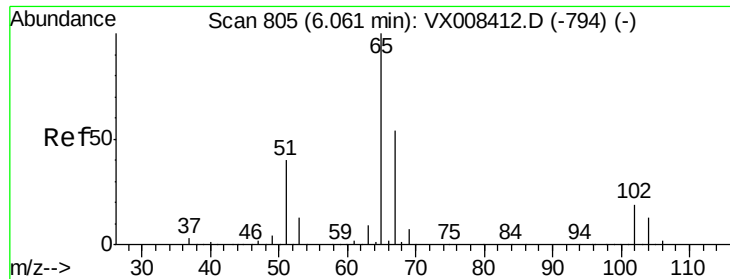
72 25.8 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.627 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

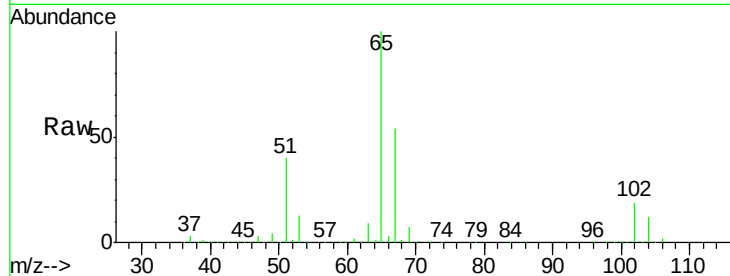
MW-104

Tgt Ion: 65 Resp: 155947

Ion Ratio Lower Upper

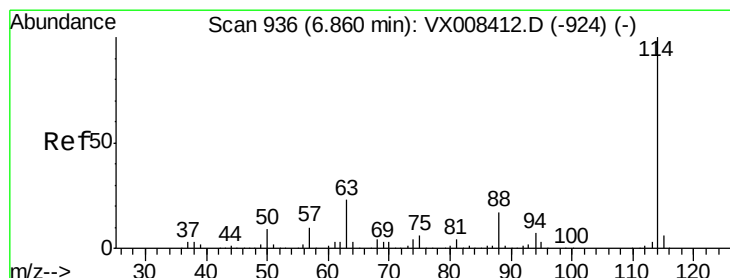
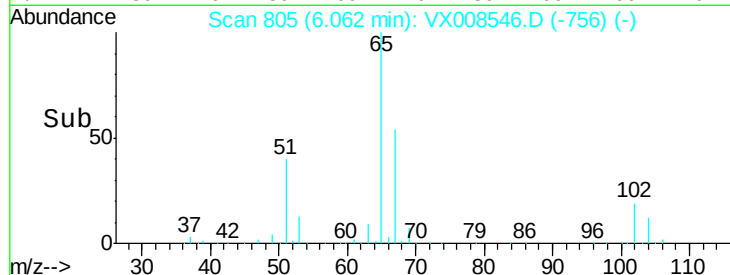
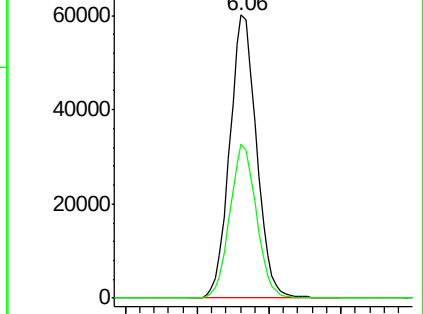
65 100

67 54.1 0.0 109.4



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

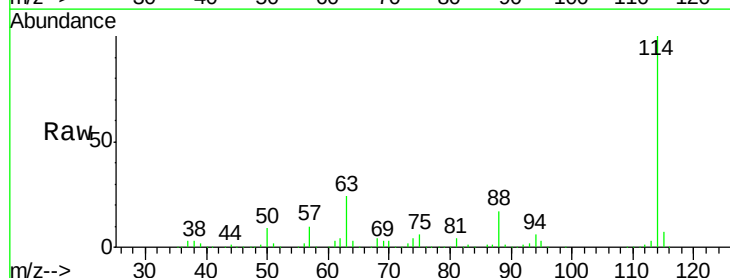
Tgt Ion: 114 Resp: 374576

Ion Ratio Lower Upper

114 100

63 24.0 0.0 46.4

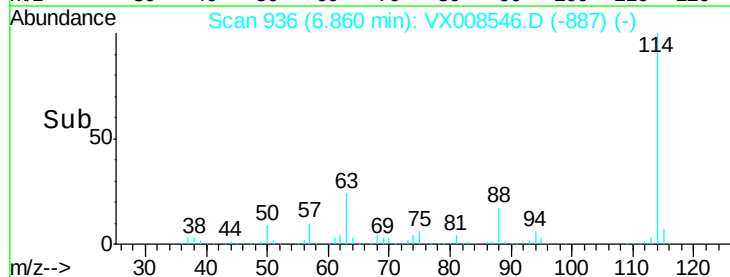
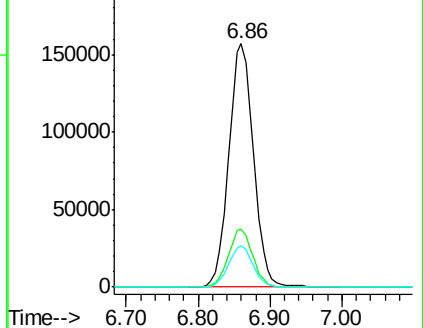
88 17.2 0.0 33.2

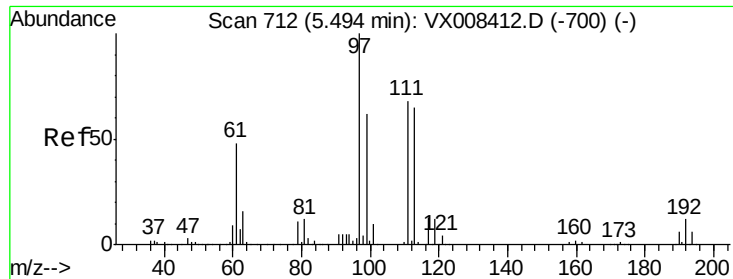


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

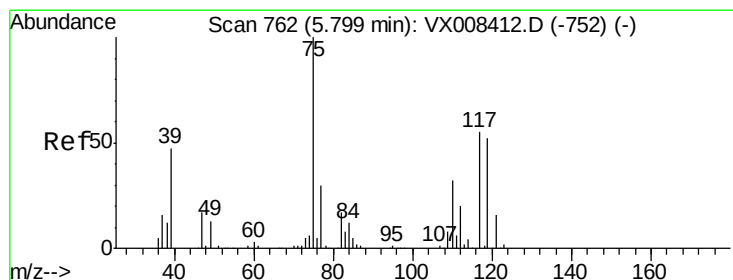
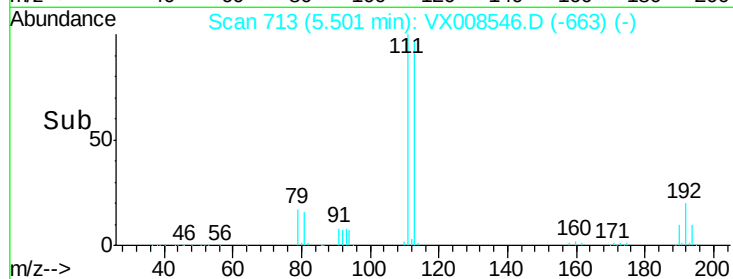
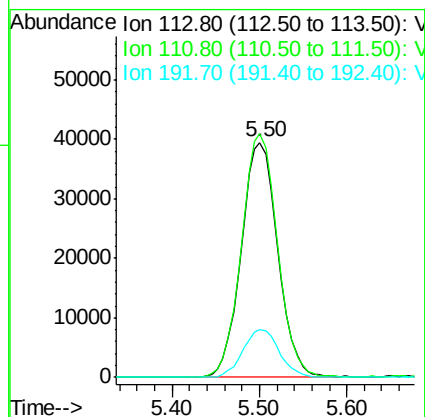
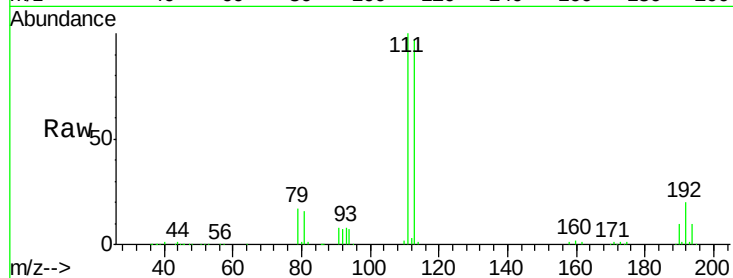




#35
 Dibromofluoromethane
 Concen: 46.852 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008546.D
 Acq: 29 Mar 2019 16:13

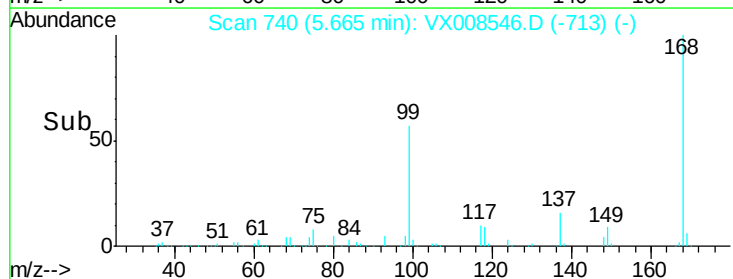
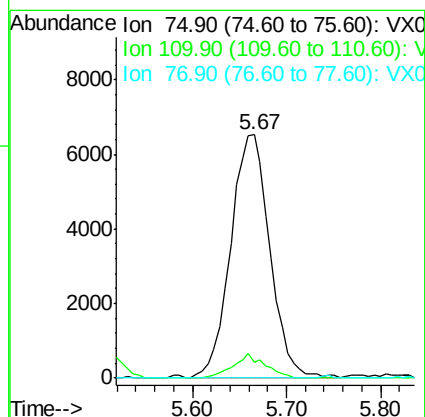
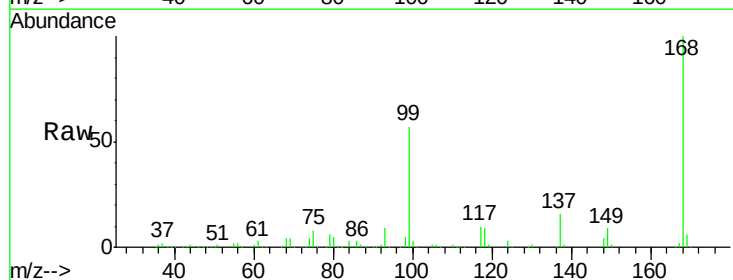
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-104

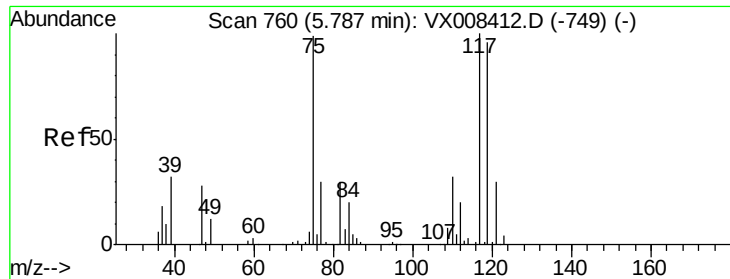
Tgt Ion:113 Resp: 114431
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.0 124.4
 192 20.2 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.730 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008546.D
 Acq: 29 Mar 2019 16:13

Tgt Ion: 75 Resp: 18890
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.6 49.7#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.735 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampled :

MW-104

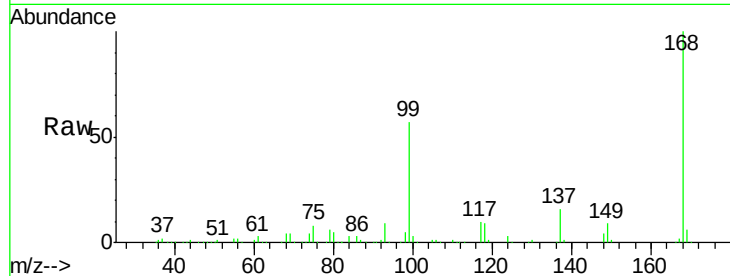
Tgt Ion:117 Resp: 22447

Ion Ratio Lower Upper

117 100

119 5.7 76.7 115.1#

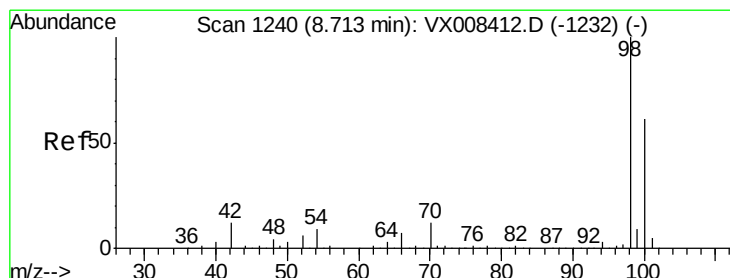
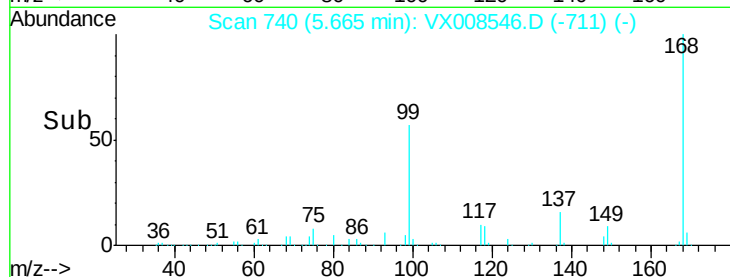
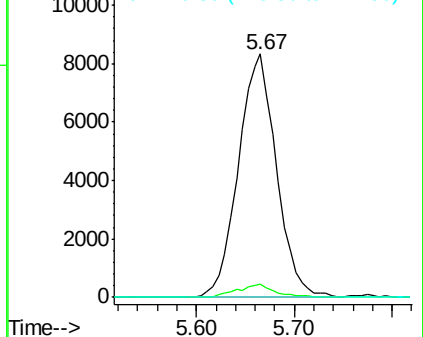
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 48.074 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008546.D

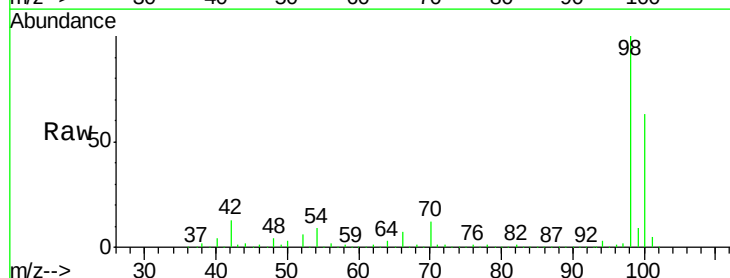
Acq: 29 Mar 2019 16:13

Tgt Ion: 98 Resp: 469500

Ion Ratio Lower Upper

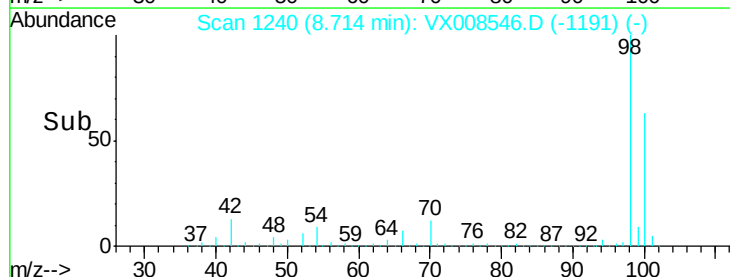
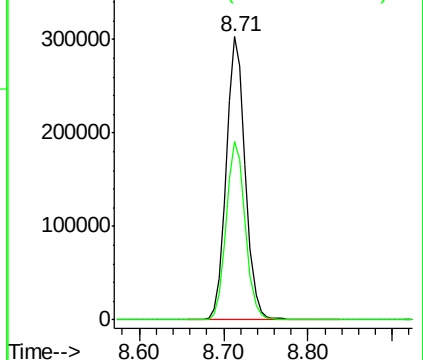
98 100

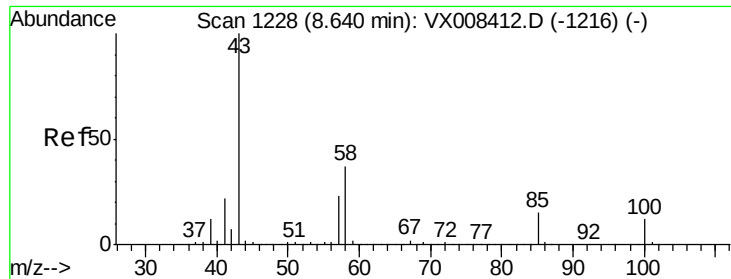
100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

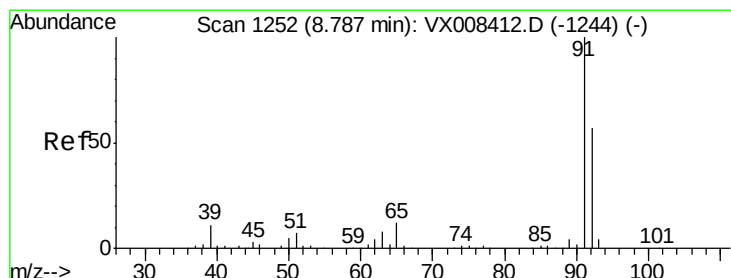
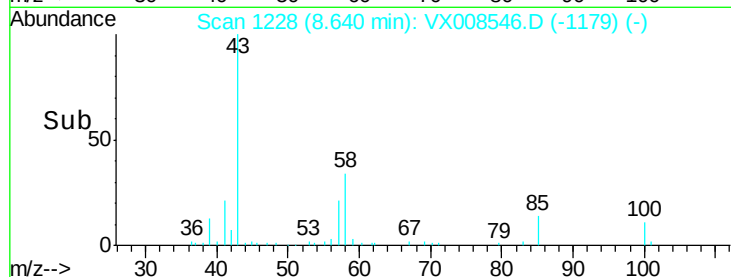
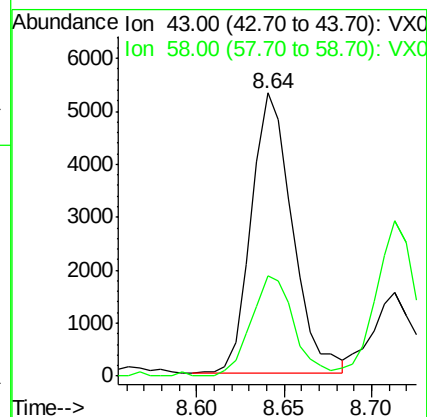
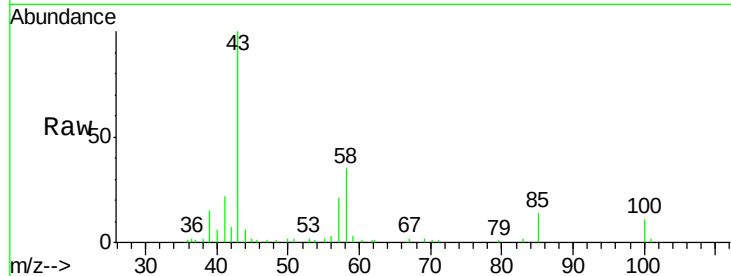
MW-104

Tgt Ion: 43 Resp: 8647

Ion Ratio Lower Upper

43 100

58 37.1 29.8 44.8



#52

Toluene

Concen: 1.356 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008546.D

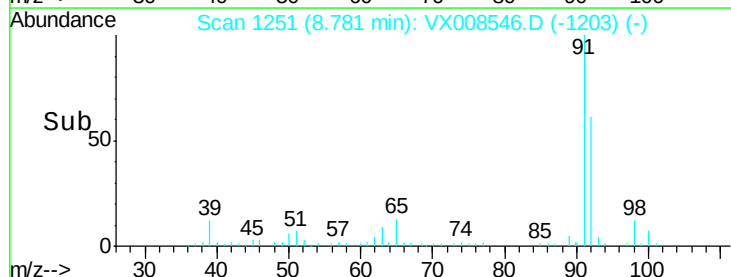
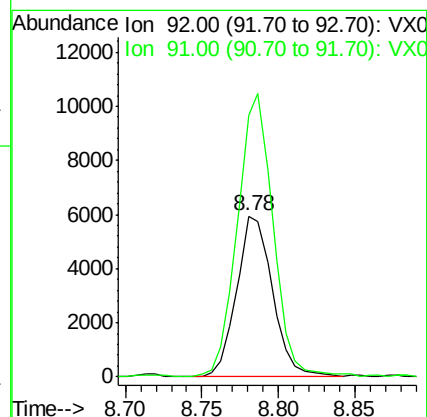
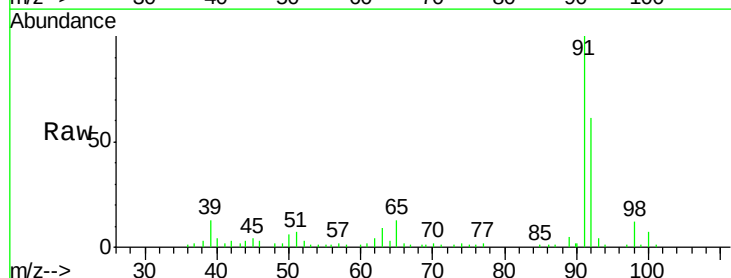
Acq: 29 Mar 2019 16:13

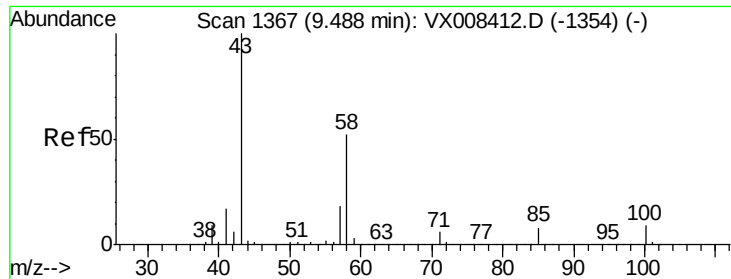
Tgt Ion: 92 Resp: 9694

Ion Ratio Lower Upper

92 100

91 174.7 140.2 210.4





#59

2-Hexanone

Concen: 0.214 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampled :

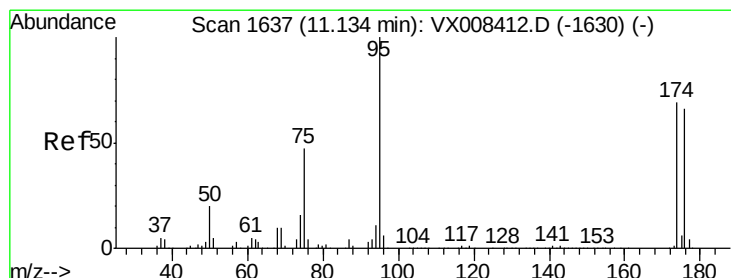
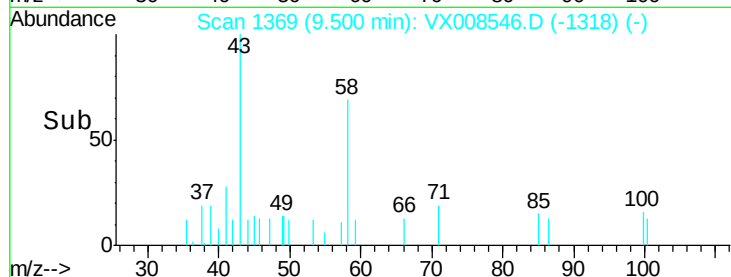
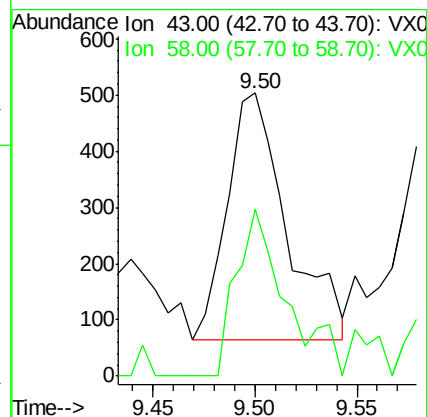
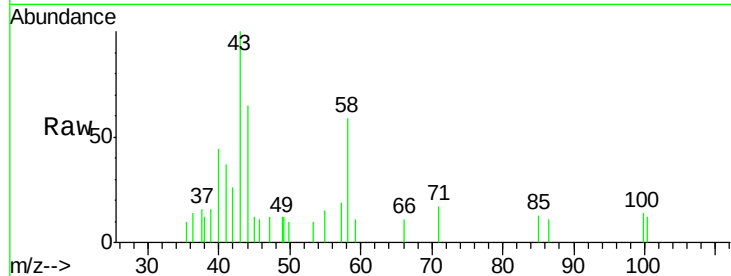
MW-104

Tgt Ion: 43 Resp: 891

Ion Ratio Lower Upper

43 100

58 56.7 26.3 78.9



#62

4-Bromofluorobenzene

Concen: 43.019 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

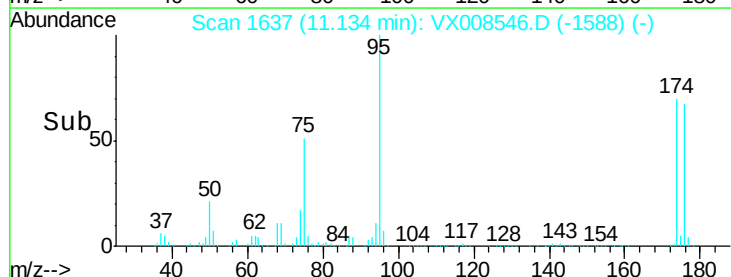
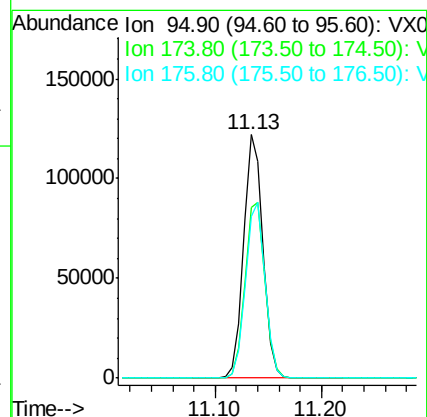
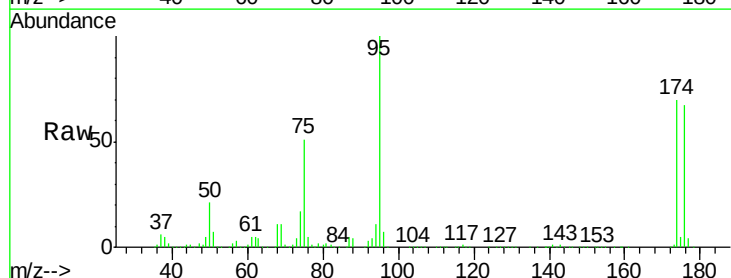
Tgt Ion: 95 Resp: 155686

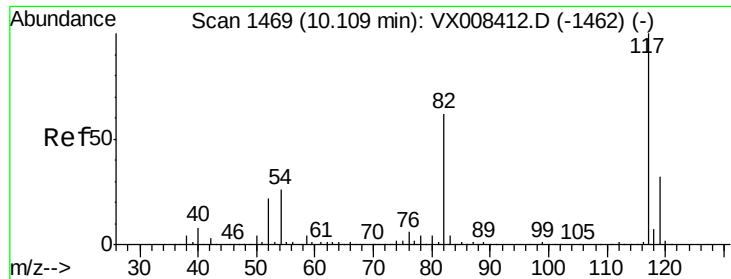
Ion Ratio Lower Upper

95 100

174 74.5 0.0 147.2

176 73.2 0.0 142.4

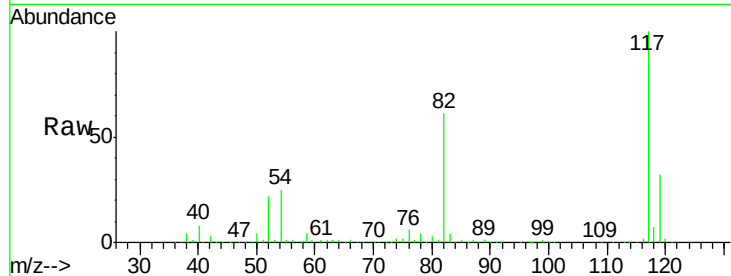




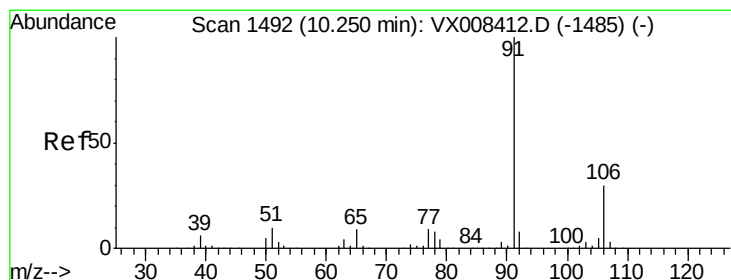
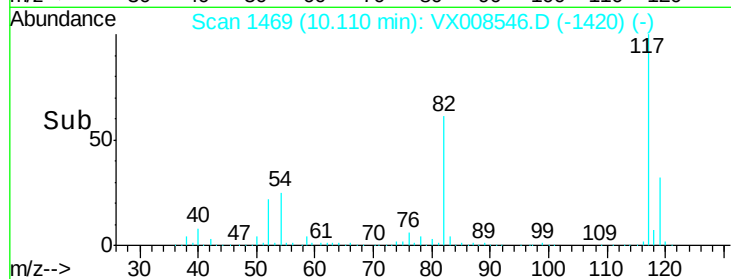
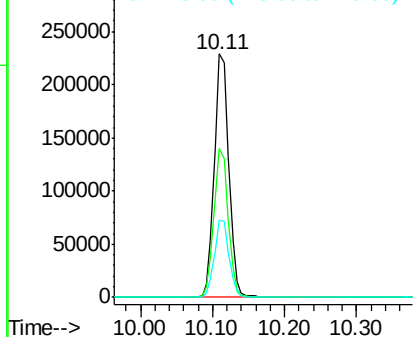
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_X
ClientSampled :
MW-104

Tgt Ion: 117 Resp: 318684
Ion Ratio Lower Upper
117 100
82 61.1 49.4 74.2
119 31.8 25.4 38.0

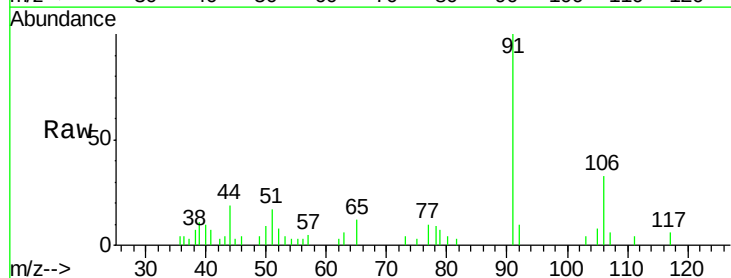


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

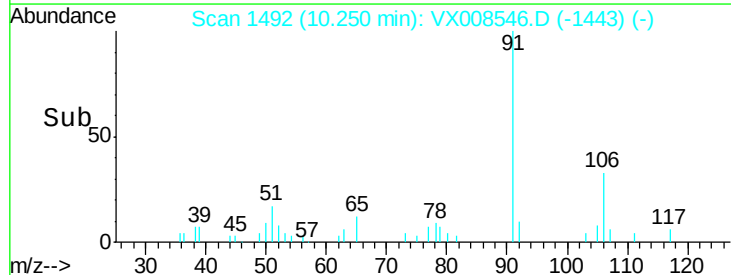
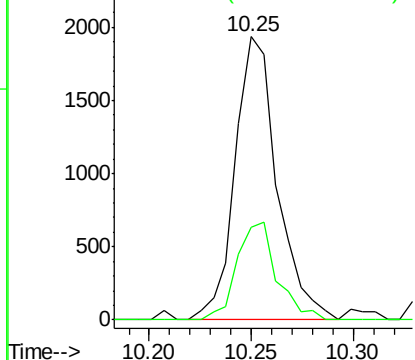


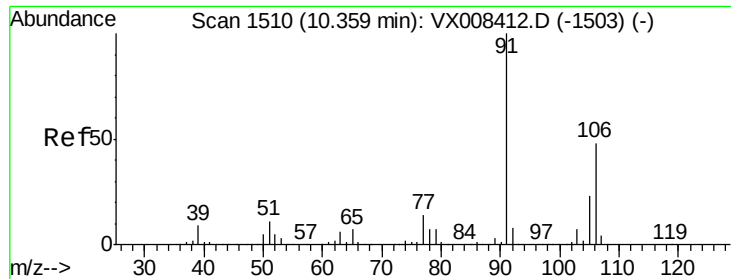
#67
Ethyl Benzene
Concen: 0.212 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 91 Resp: 2773
Ion Ratio Lower Upper
91 100
106 32.7 24.0 36.0



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

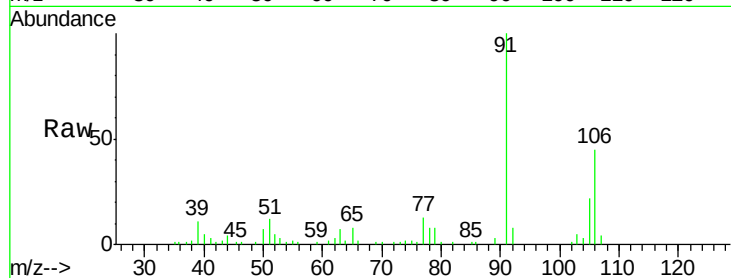




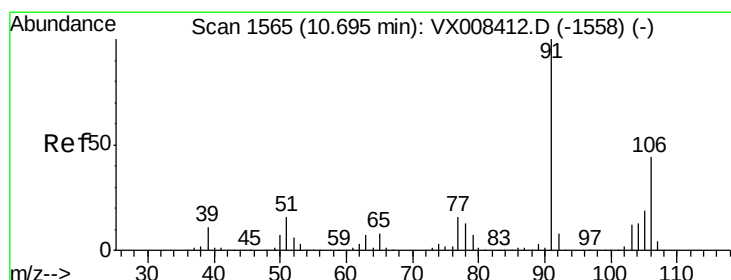
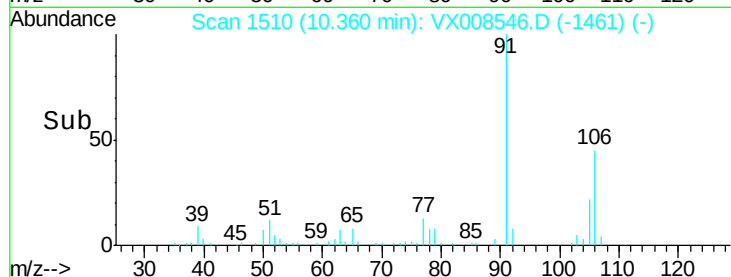
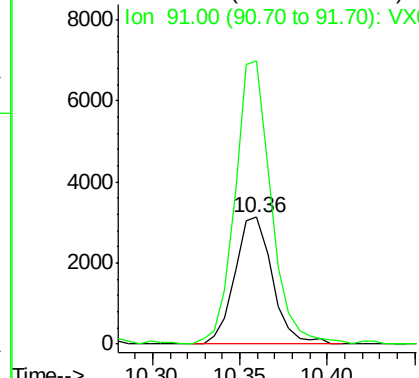
#68
m/p-Xylenes
Concen: 0.983 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_X
ClientSampled :
MW-104

Tgt Ion:106 Resp: 4678
Ion Ratio Lower Upper
106 100
91 213.6 168.6 253.0

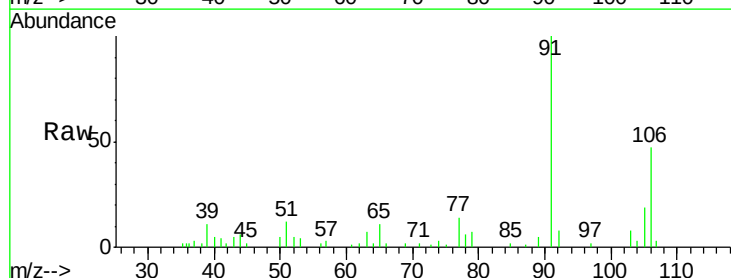


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

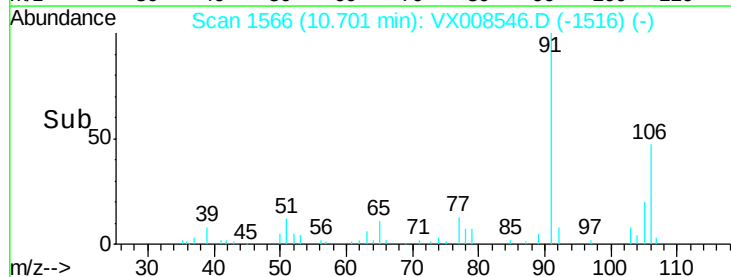
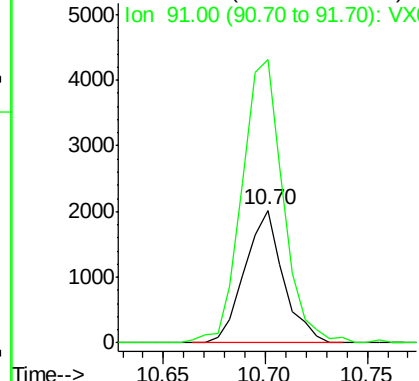


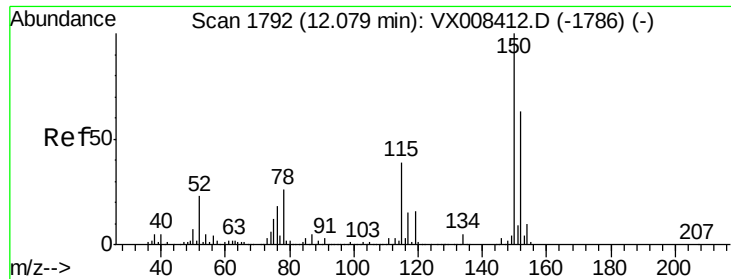
#69
o-Xylene
Concen: 0.573 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008546.D
Acq: 29 Mar 2019 16:13

Tgt Ion:106 Resp: 2645
Ion Ratio Lower Upper
106 100
91 228.8 111.4 334.2



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: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

MW-104

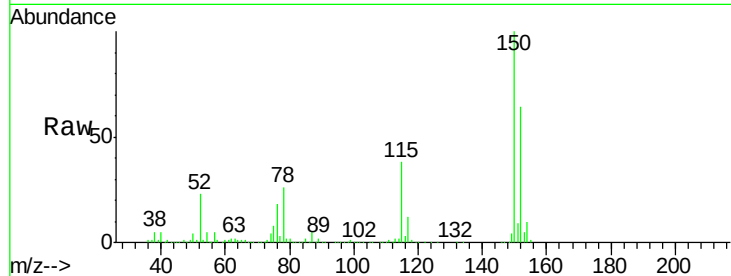
Tgt Ion:152 Resp: 129502

Ion Ratio Lower Upper

152 100

115 60.7 43.5 130.5

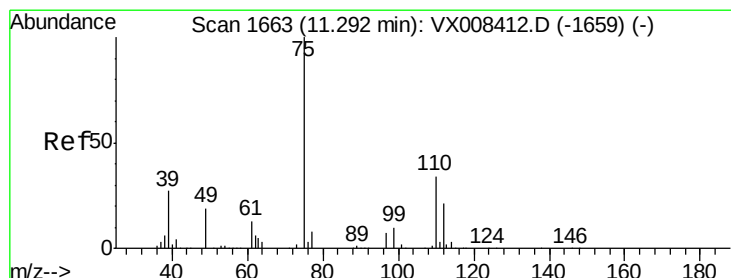
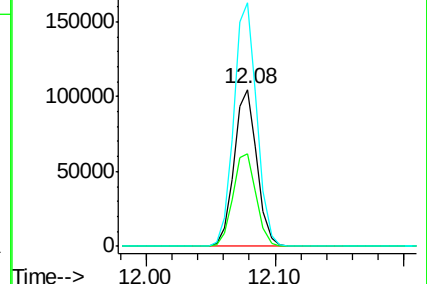
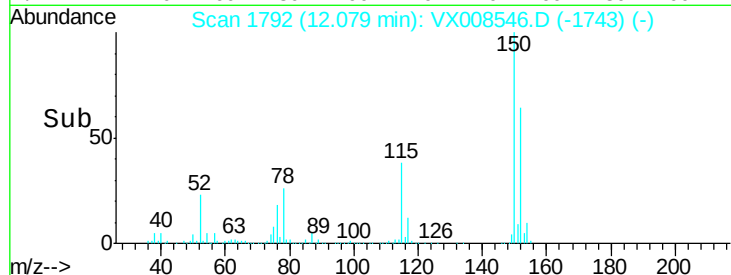
150 157.4 0.0 348.8



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: 20.637 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008546.D

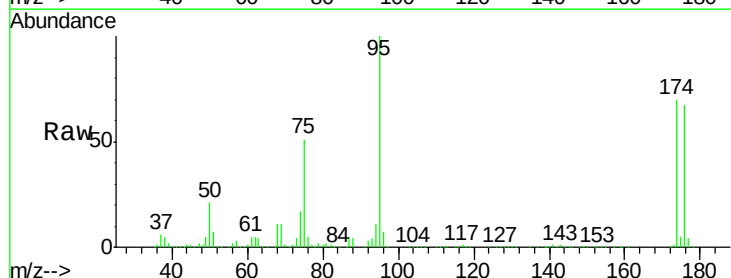
Acq: 29 Mar 2019 16:13

Tgt Ion: 75 Resp: 79454

Ion Ratio Lower Upper

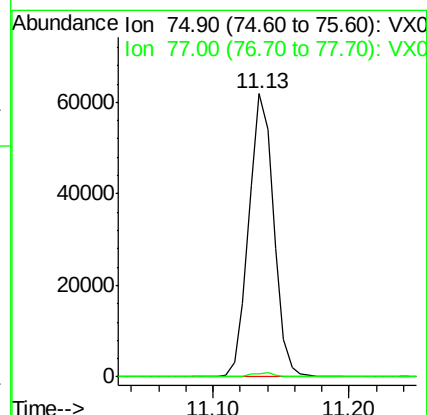
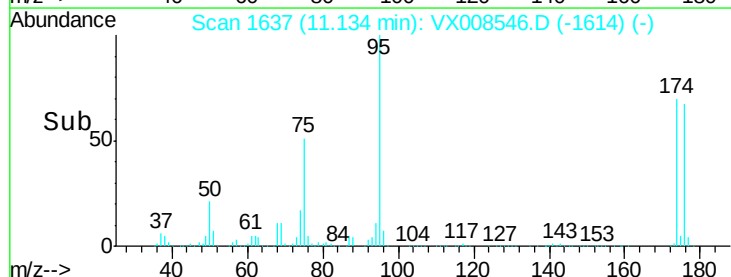
75 100

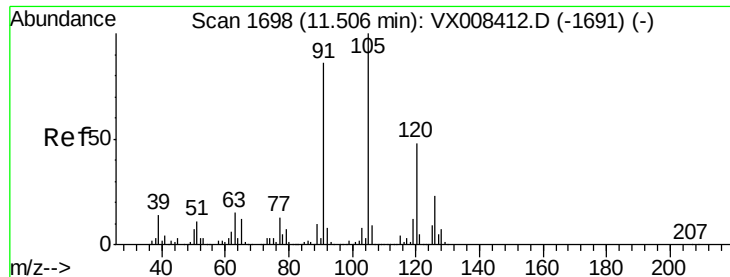
77 1.5 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.324 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_X

ClientSampled :

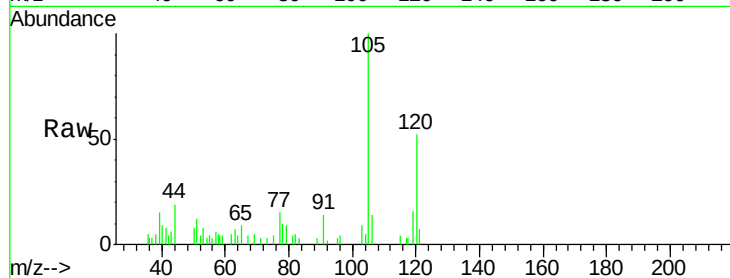
MW-104

Tgt Ion:105 Resp: 2889

Ion Ratio Lower Upper

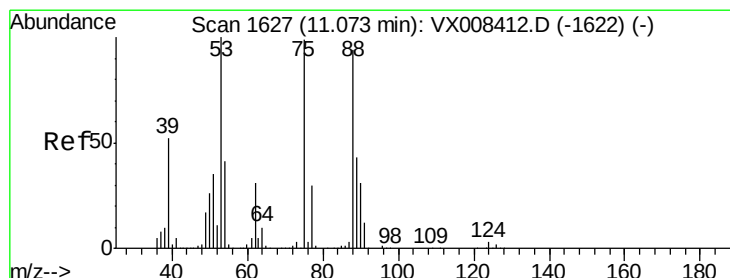
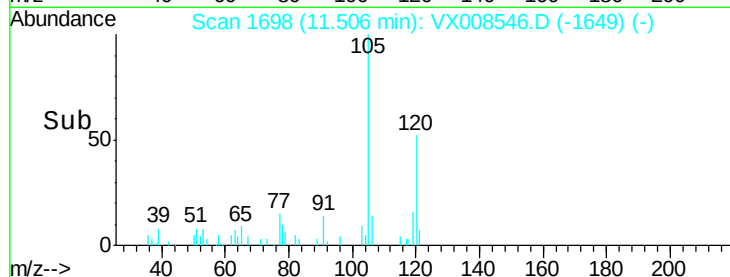
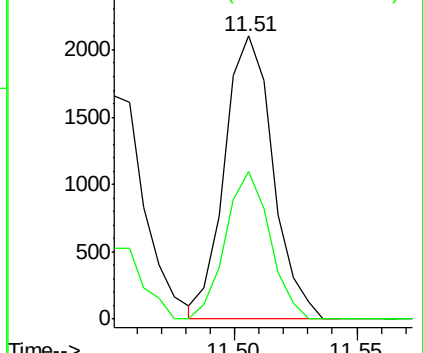
105 100

120 47.5 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.099 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008546.D

Acq: 29 Mar 2019 16:13

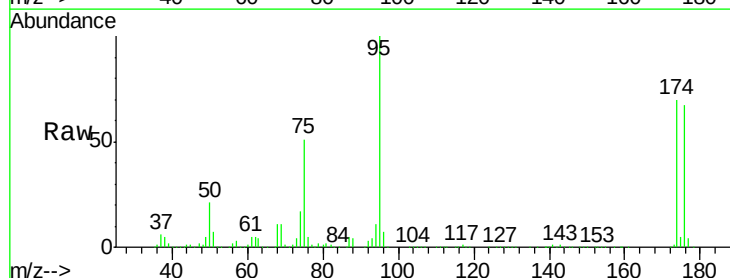
Tgt Ion: 75 Resp: 79454

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

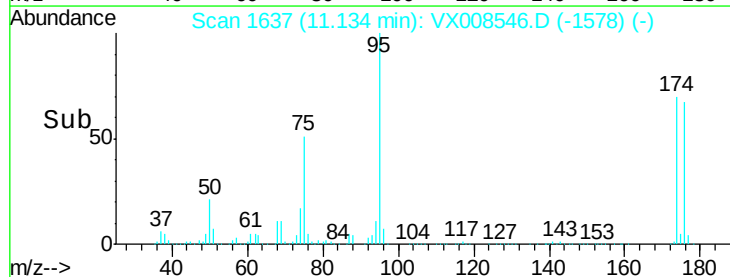
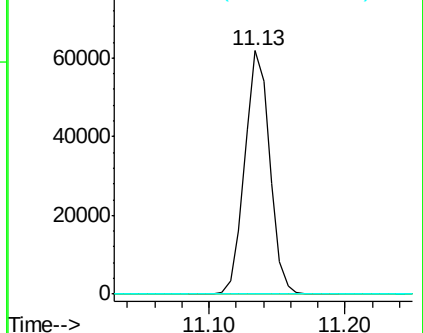
89 0.0 34.6 52.0#

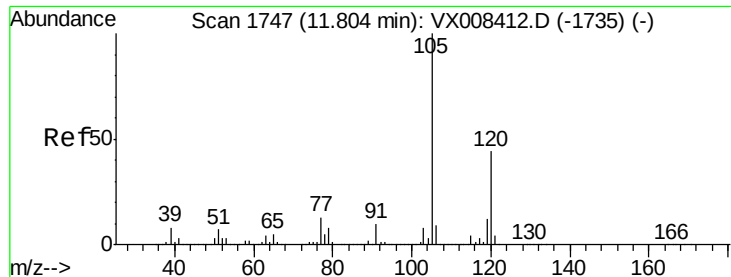


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

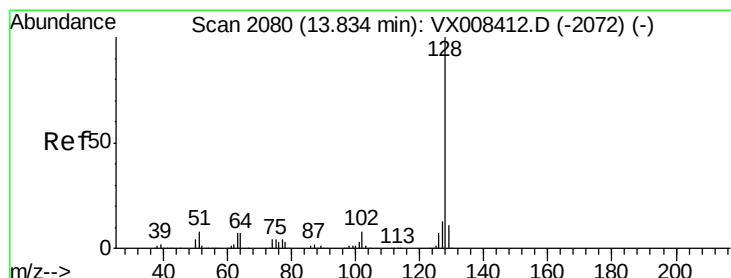
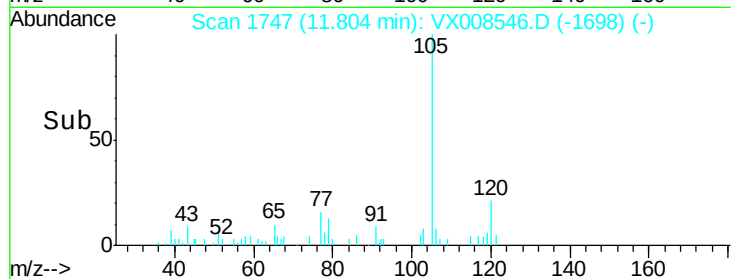
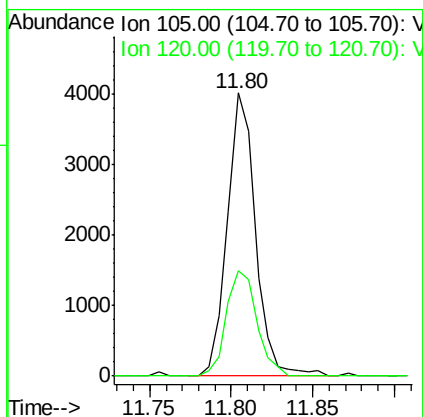
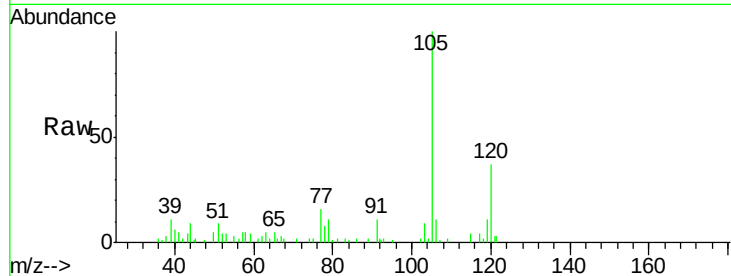




#84
 1,2,4-Trimethylbenzene
 Concen: 0.538 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX008546.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-104

Tgt Ion:105 Resp: 4844
 Ion Ratio Lower Upper
 105 100
 120 40.2 21.6 65.0



#95
 Naphthalene
 Concen: 0.219 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX008546.D
 Acq: 29 Mar 2019 16:13

Tgt Ion:128 Resp: 2310
 Ion Ratio Lower Upper
 128 100
 127 16.1 10.4 15.6#
 129 16.2 8.7 13.1#

