

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021519\
 Data File : VX007549.D
 Acq On : 14 Feb 2019 16:48
 Operator : JC/SP
 Sample : K1460-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1-20190207

Quant Time: Feb 15 06:08:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	500279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	793090	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	753166	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	379764	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	271838	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
35) Dibromofluoromethane	5.51	113	255736	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	8.71	98	954471	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.13	95	352826	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	

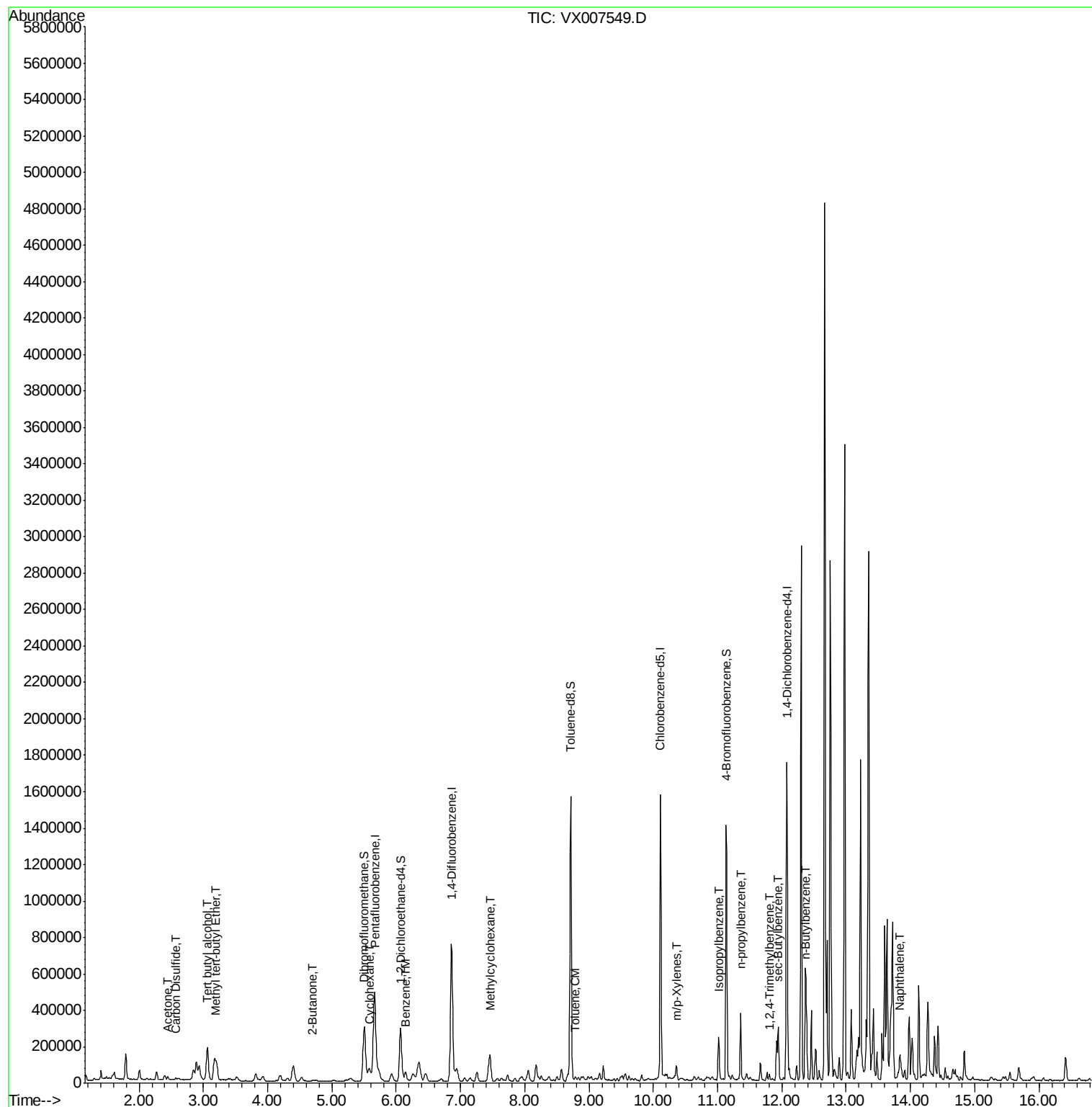
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.06	59	218934	199.227	ug/l	98
16) Acetone	2.45	43	16516	6.790	ug/l	99
17) Carbon Disulfide	2.57	76	11138	2.975	ug/l	95
19) Methyl tert-butyl Ether	3.20	73	101081	6.532	ug/l #	74
25) 2-Butanone	4.70	43	10970	3.169	ug/l #	87
31) Cyclohexane	5.57	56	45923	6.219	ug/l #	95
39) Methylcyclohexane	7.46	83	61360	7.127	ug/l	94
40) Benzene	6.15	78	63204	3.015	ug/l	92
52) Toluene	8.78	92	6104	0.451	ug/l	95
68) m/p-Xylenes	10.36	106	18100	1.720	ug/l	96
73) Isopropylbenzene	11.02	105	124046	4.807	ug/l	98
78) n-propylbenzene	11.36	91	219198	7.746	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	16027	0.748	ug/l	95
85) sec-Butylbenzene	11.94	105	148400	5.866	ug/l	96
89) n-Butylbenzene	12.38	91	190334	9.688	ug/l #	67
95) Naphthalene	13.83	128	82387	3.217	ug/l #	90

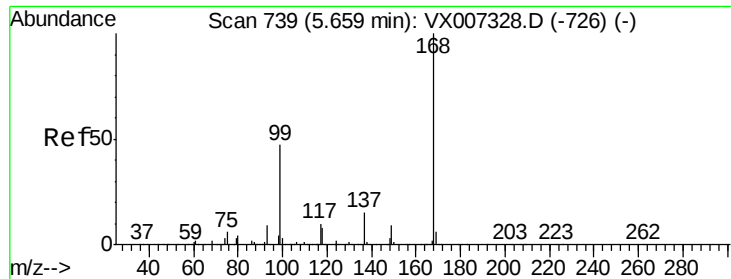
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

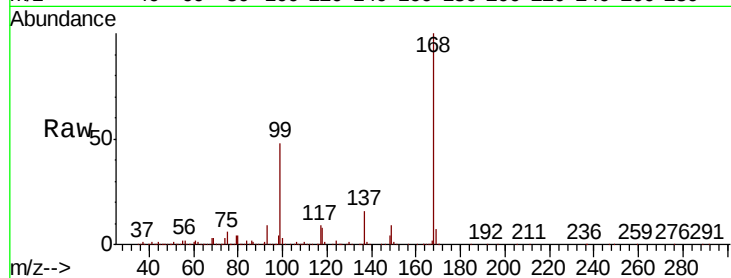
MW-1-20190207

Tot Ion:168 Resp: 500279

Ion Ratio Lower Upper

168 100

99 48.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

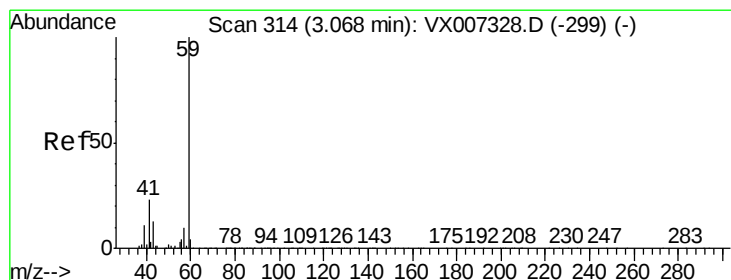
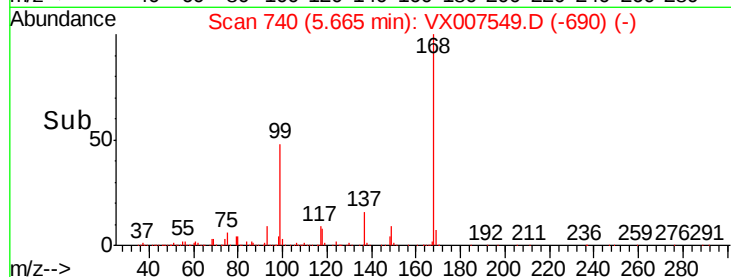
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 199.227 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007549.D

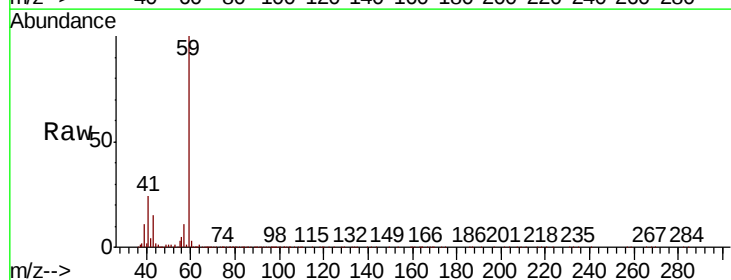
Acq: 14 Feb 2019 16:48

Tgt Ion: 59 Resp: 218934

Ion Ratio Lower Upper

59 100

57 10.8 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.06

100000

80000

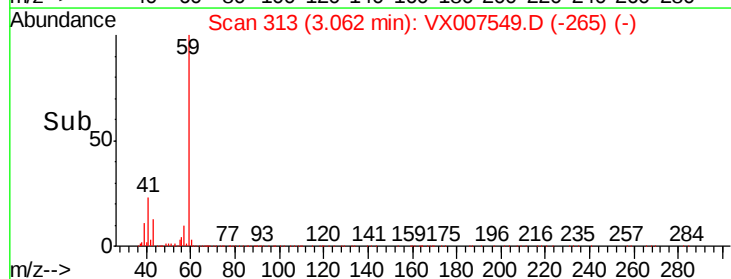
60000

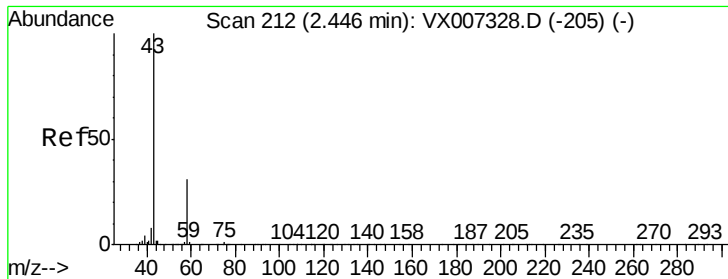
40000

20000

0

Time--> 2.90 3.00 3.10 3.20





#16

Acetone

Concen: 6.790 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

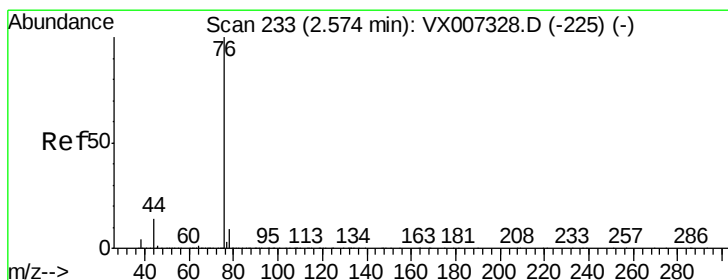
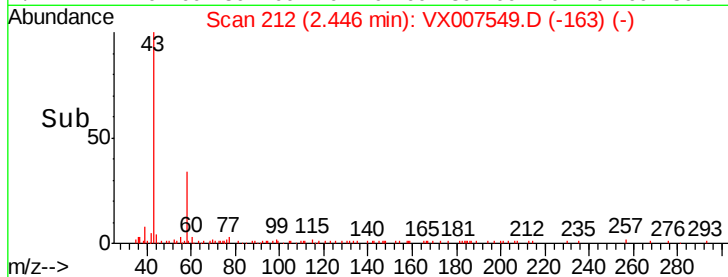
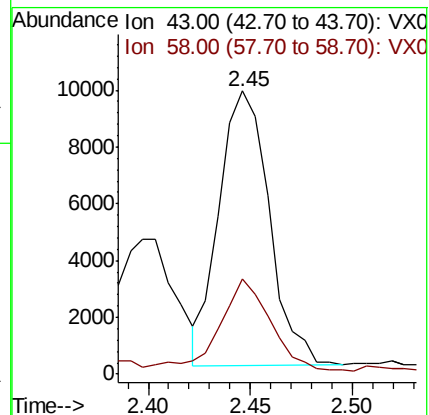
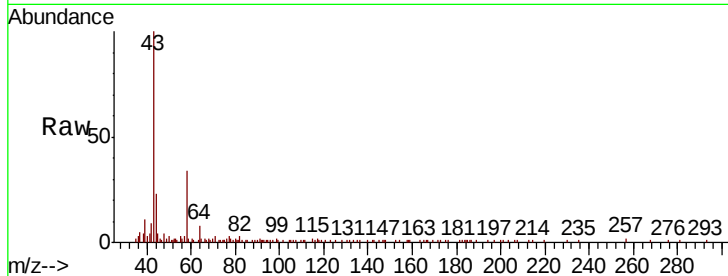
MW-1-20190207

Tot Ion: 43 Resp: 16516

Ion Ratio Lower Upper

43 100

58 31.7 24.9 37.3



#17

Carbon Disulfide

Concen: 2.975 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007549.D

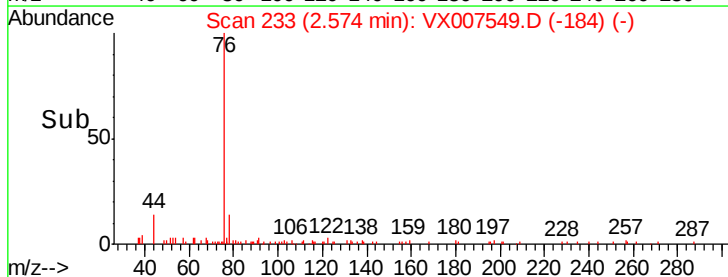
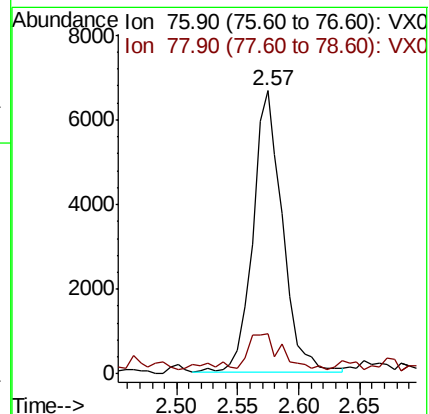
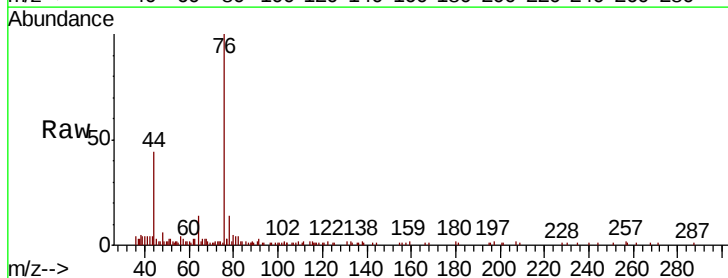
Acq: 14 Feb 2019 16:48

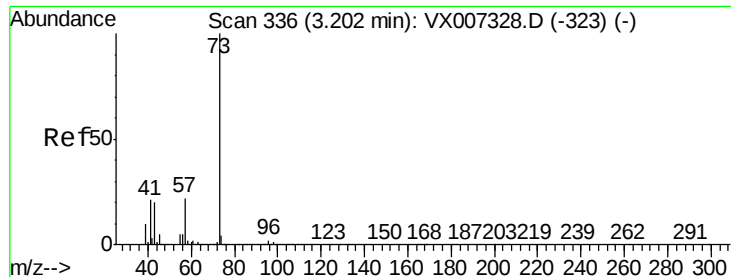
Tgt Ion: 76 Resp: 11138

Ion Ratio Lower Upper

76 100

78 10.7 7.1 10.7





#19

Methyl tert-butyl Ether

Concen: 6.532 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

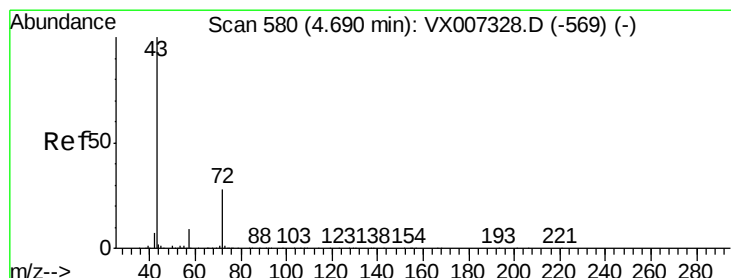
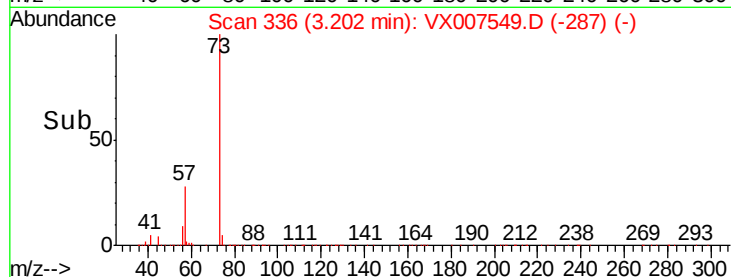
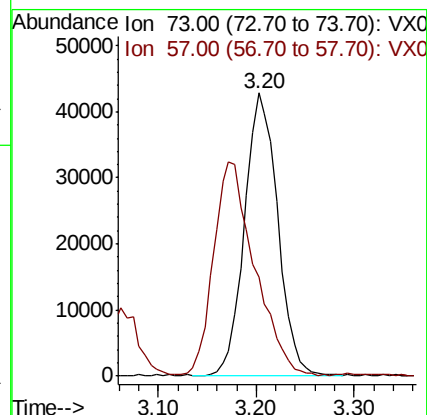
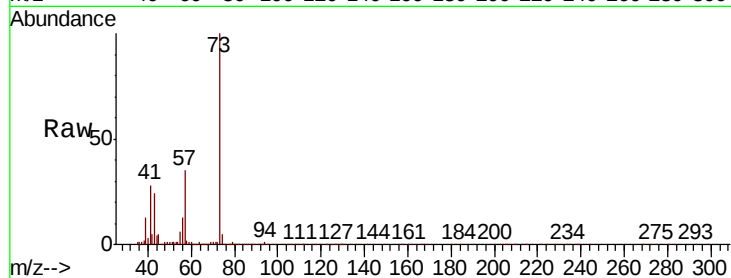
MW-1-20190207

Tot Ion: 73 Resp: 101081

Ion Ratio Lower Upper

73 100

57 34.8 17.8 26.8#



#25

2-Butanone

Concen: 3.169 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007549.D

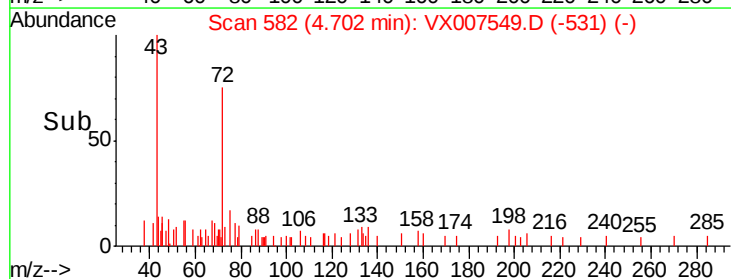
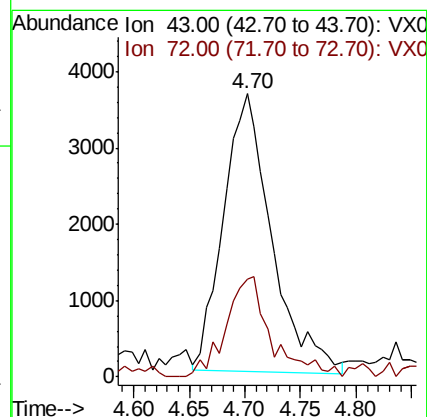
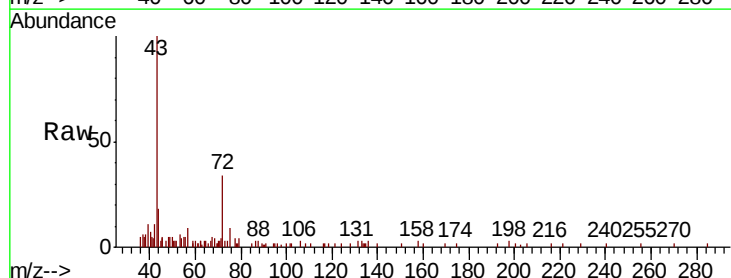
Acq: 14 Feb 2019 16:48

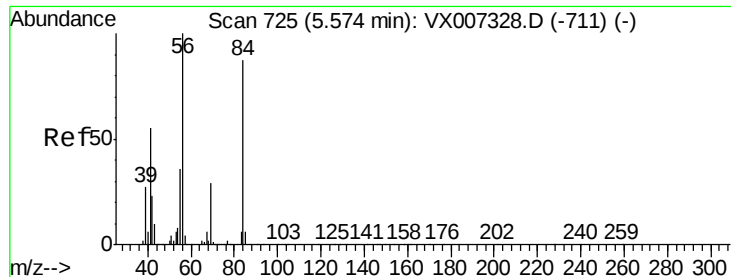
Tgt Ion: 43 Resp: 10970

Ion Ratio Lower Upper

43 100

72 34.4 22.2 33.2#

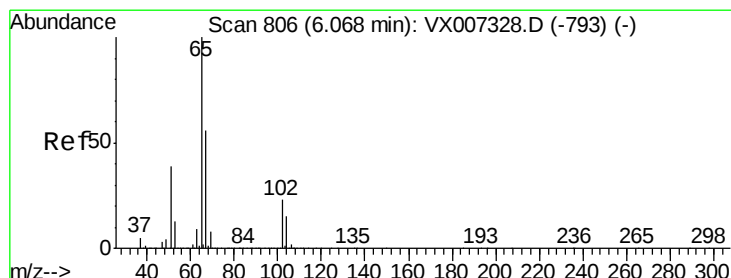
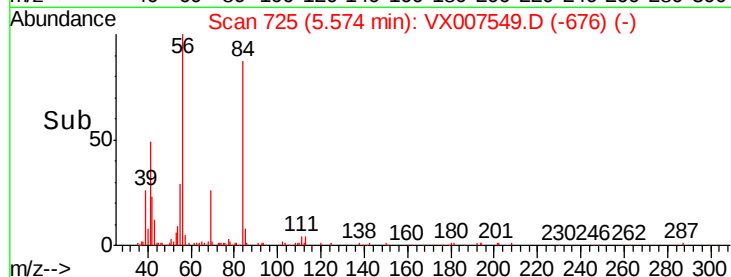
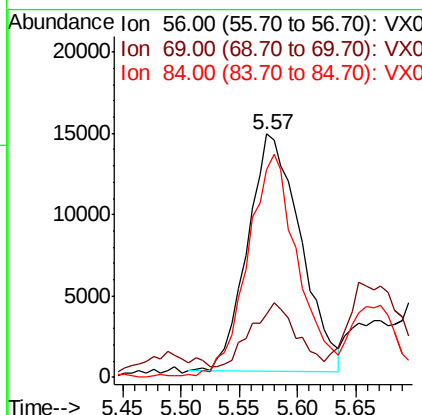
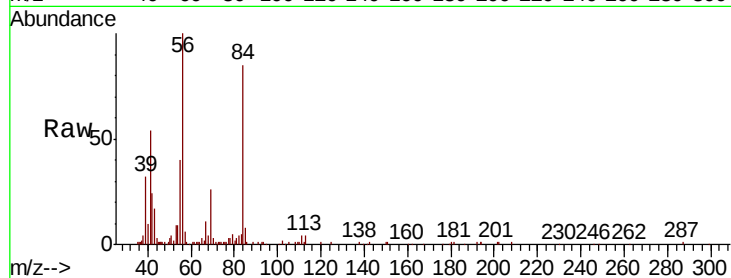




#31
Cyclohexane
Concen: 6.219 ug/l
RT: 5.57 min Scan# 725
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

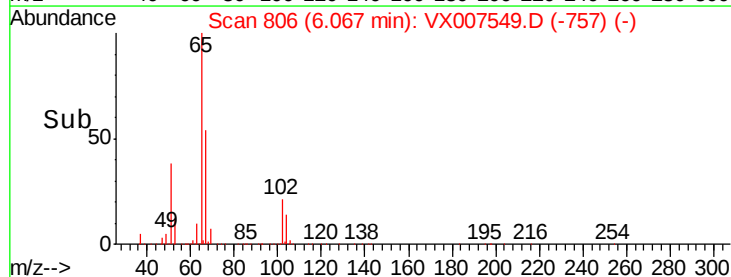
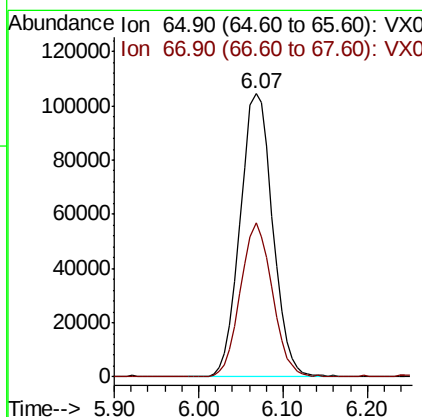
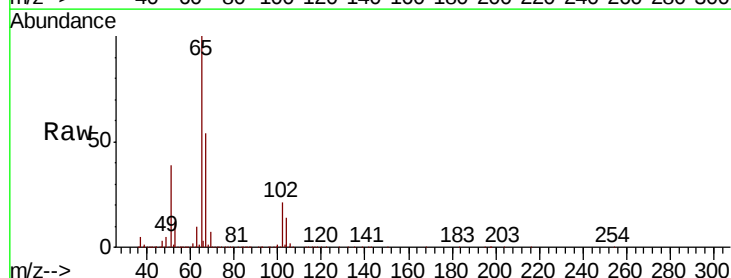
Instrument :
MSVOA_X
ClientSampleId :
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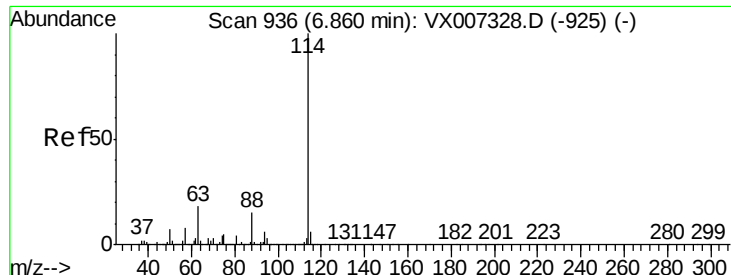
Tot Ion: 56 Resp: 45923
Ion Ratio Lower Upper
56 100
69 20.6 23.0 34.6#
84 85.6 69.8 104.6



#33
1,2-Dichloroethane-d4
Concen: 51.193 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

Tgt Ion: 65 Resp: 271838
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

MW-1-20190207

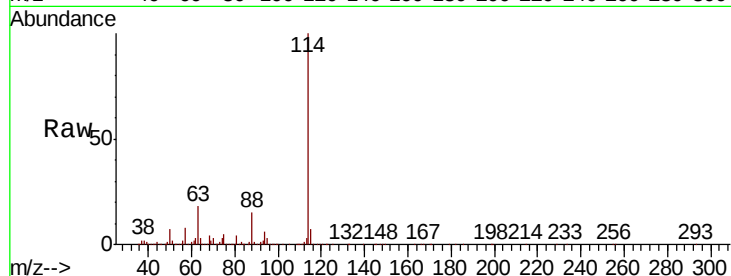
Tot Ion:114 Resp: 793090

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

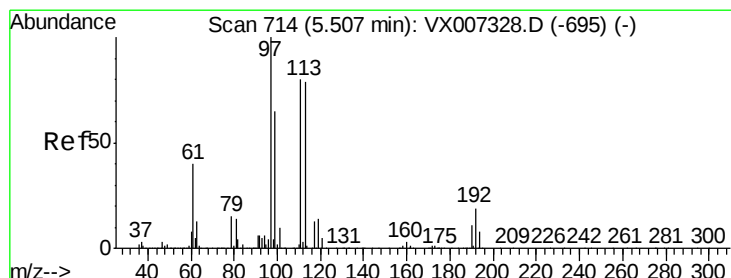
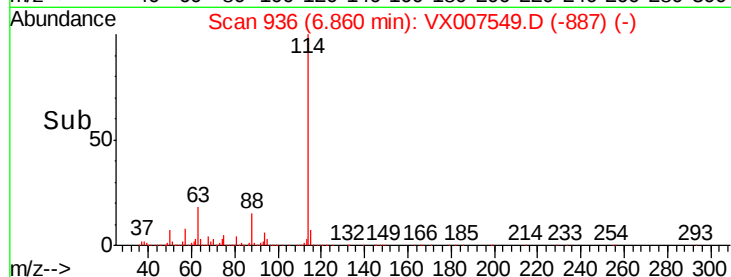
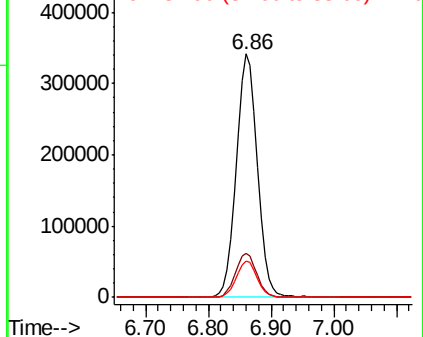
88 14.7 0.0 29.6



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: 49.558 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

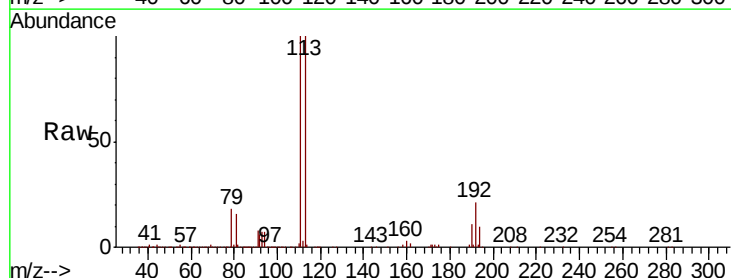
Tgt Ion:113 Resp: 255736

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.8

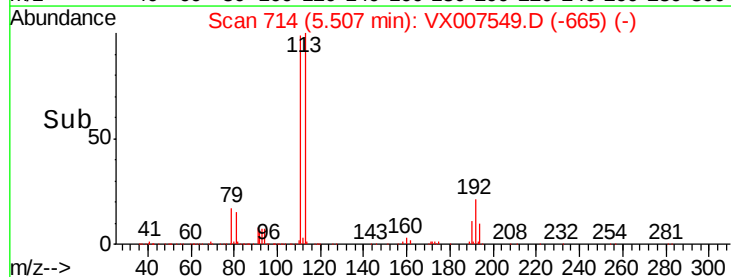
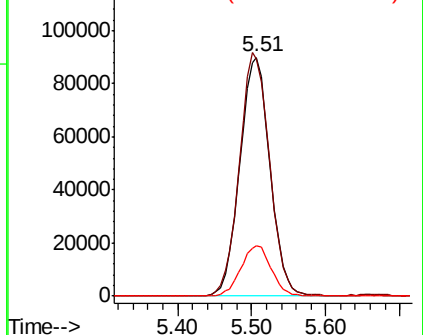
192 21.4 18.5 27.7

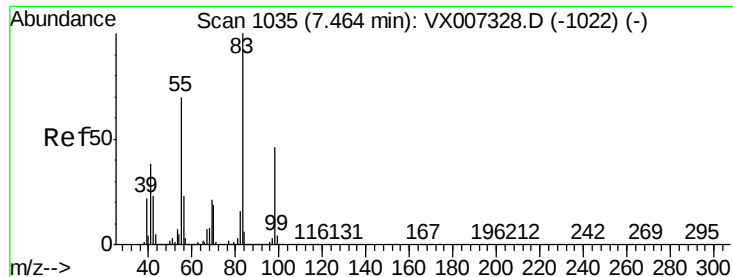


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

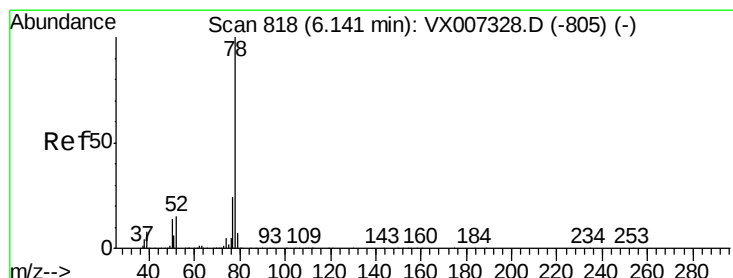
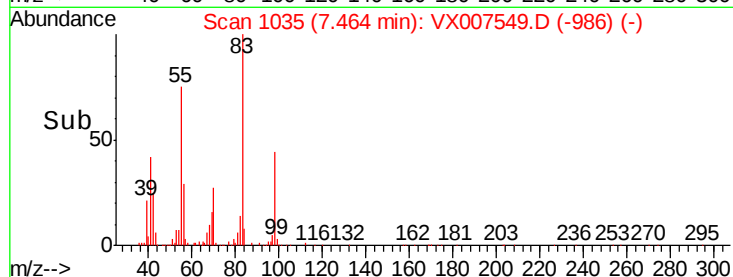
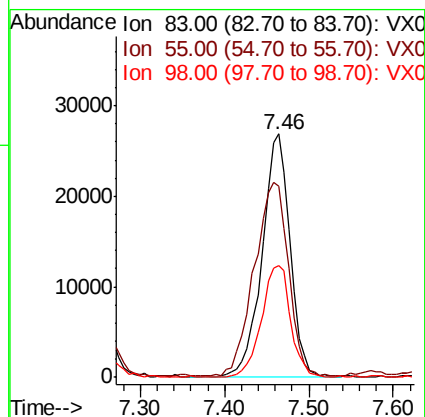
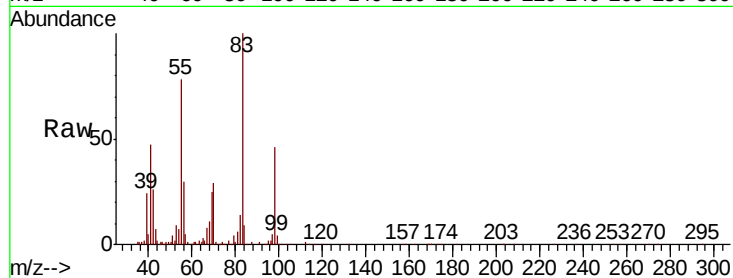




#39
Methvlcvclohexane
Concen: 7.127 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

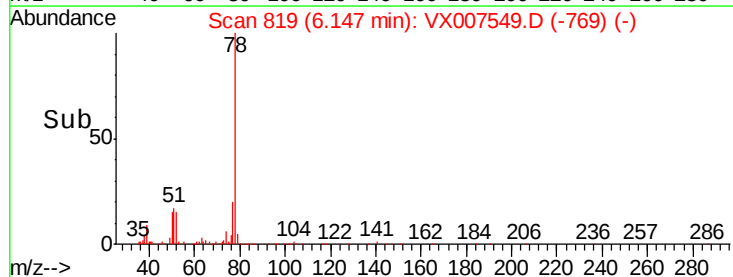
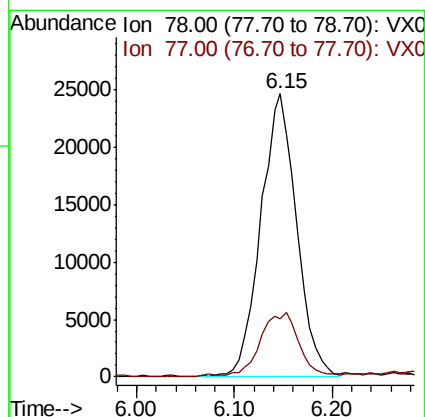
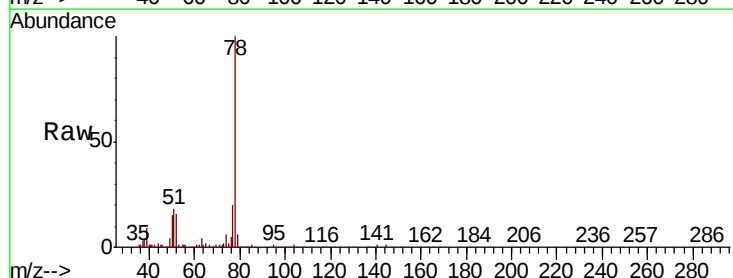
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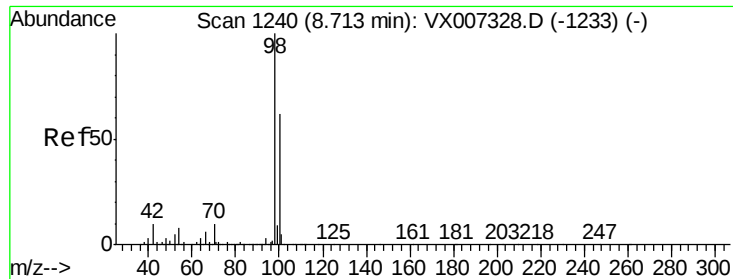
Tot Ion: 83 Resp: 61360
Ion Ratio Lower Upper
83 100
55 77.5 56.2 84.2
98 45.6 36.8 55.2



#40
Benzene
Concen: 3.015 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

Tgt Ion: 78 Resp: 63204
Ion Ratio Lower Upper
78 100
77 20.2 19.3 28.9

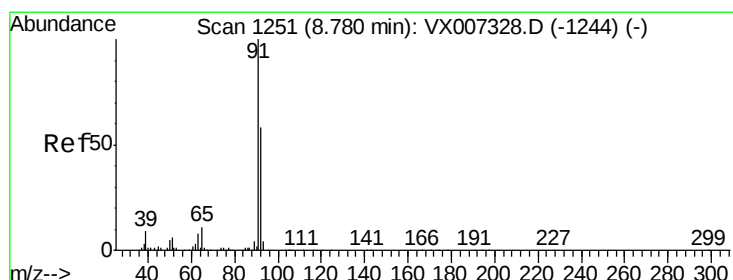
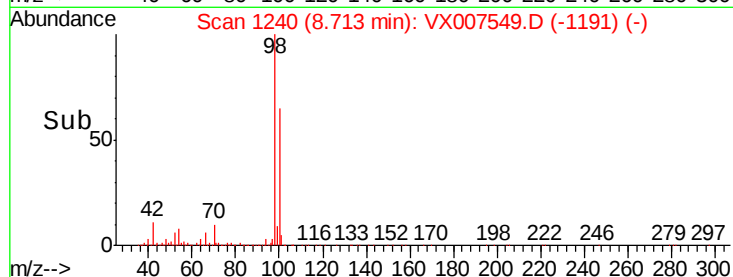
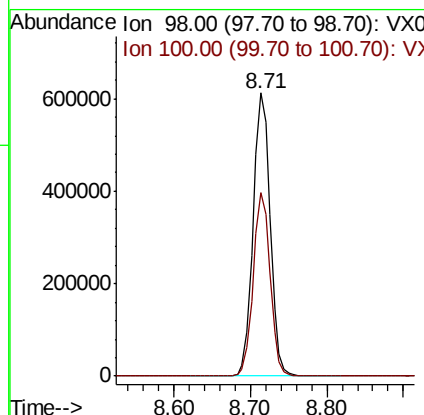
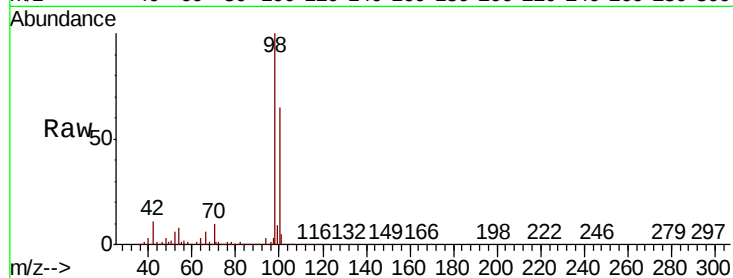




#50
Toluene-d8
Concen: 49.853 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

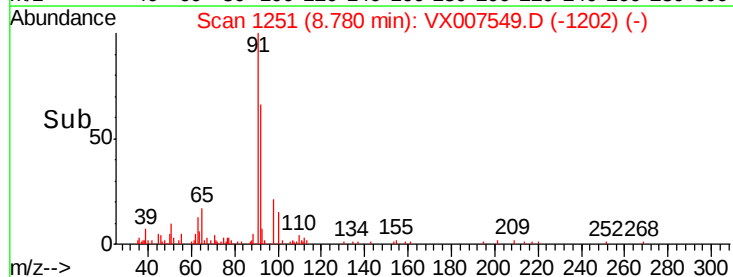
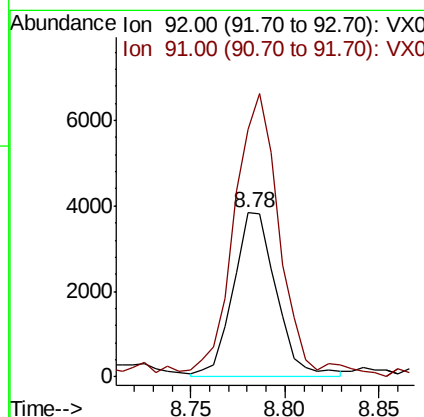
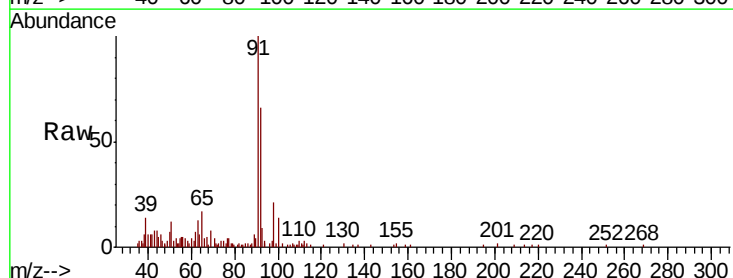
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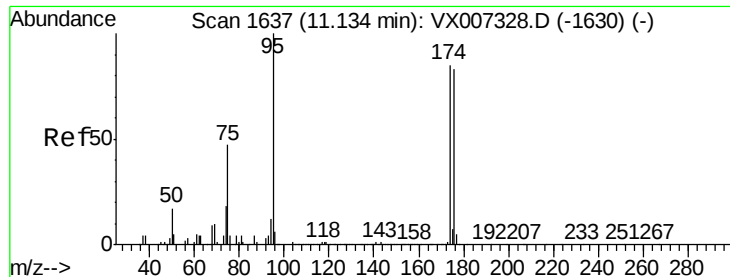
Tot Ion: 98 Resp: 954471
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#52
Toluene
Concen: 0.451 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

Tgt Ion: 92 Resp: 6104
Ion Ratio Lower Upper
92 100
91 167.5 139.1 208.7





#62

4-Bromofluorobenzene

Concen: 50.475 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

MW-1-20190207

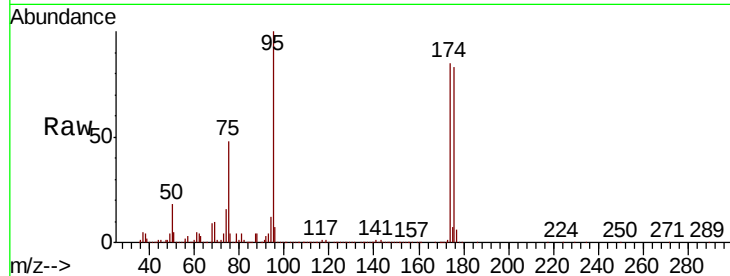
Tot Ion: 95 Resp: 352826

Ion Ratio Lower Upper

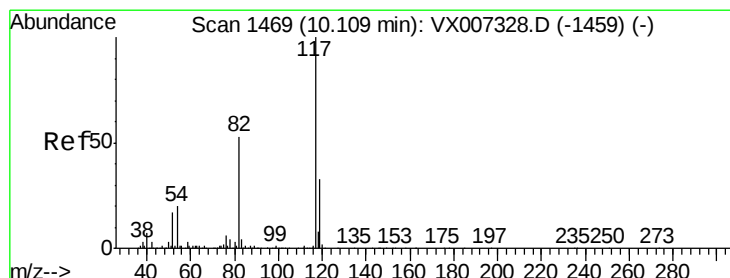
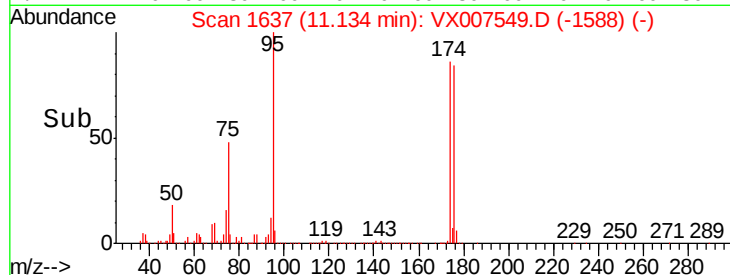
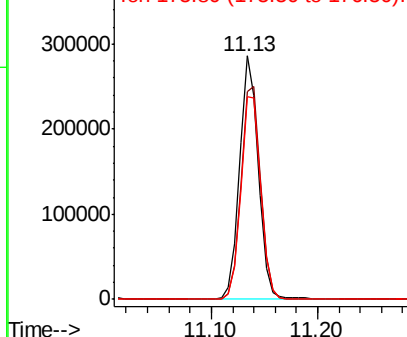
95 100

174 91.9 0.0 189.2

176 88.5 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

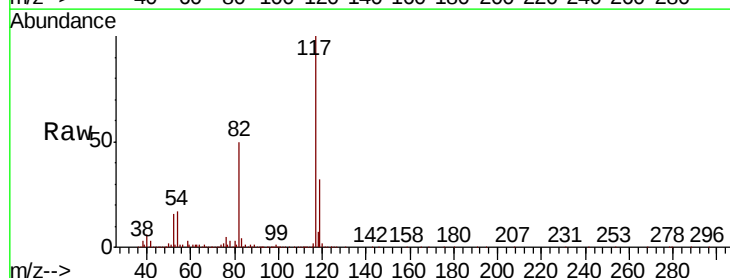
Tgt Ion: 117 Resp: 753166

Ion Ratio Lower Upper

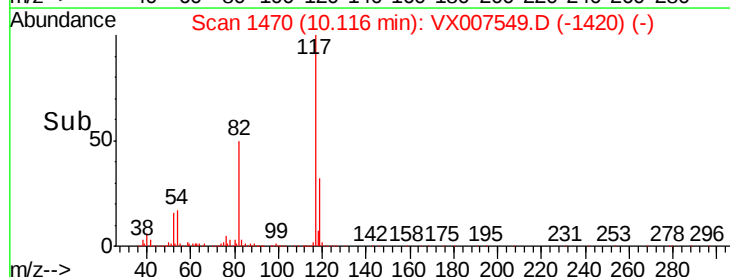
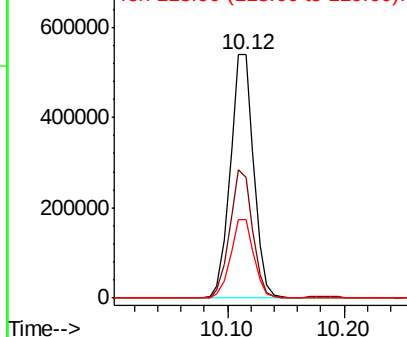
117 100

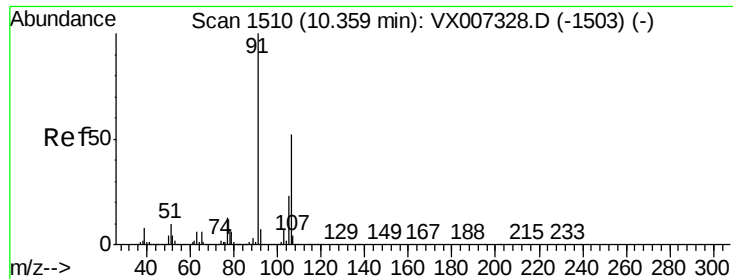
82 49.7 42.1 63.1

119 32.5 26.5 39.7



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





#68

m/p-Xvlenes

Concen: 1.720 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

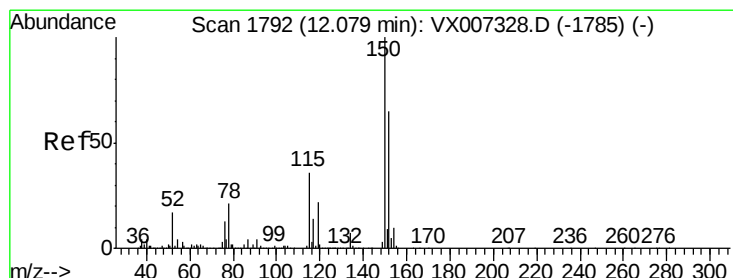
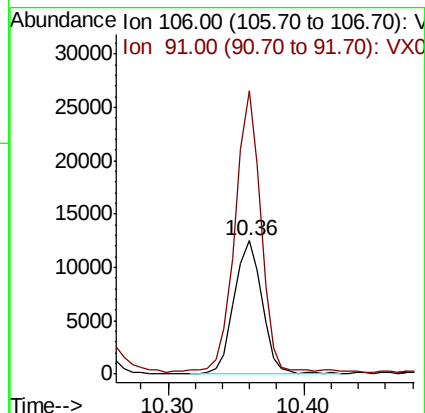
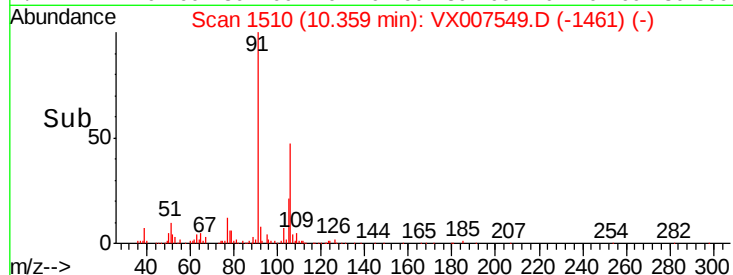
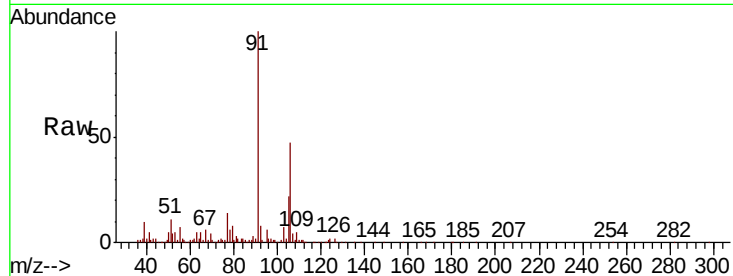
MW-1-20190207

Tot Ion:106 Resp: 18100

Ion Ratio Lower Upper

106 100

91 190.4 156.6 234.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

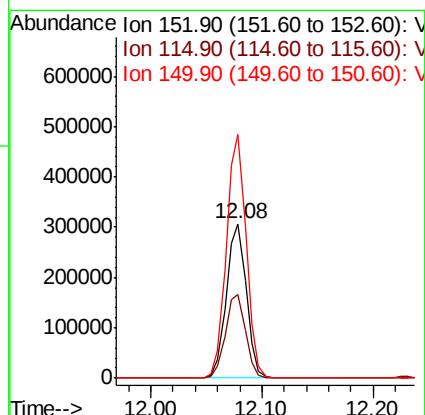
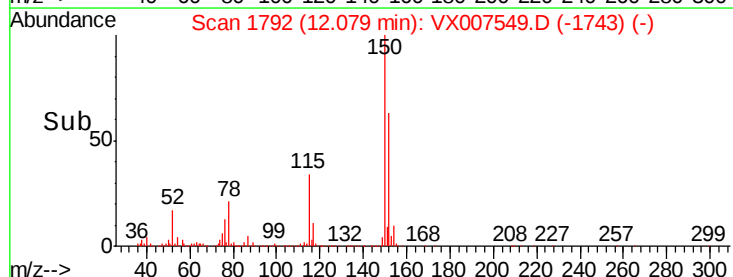
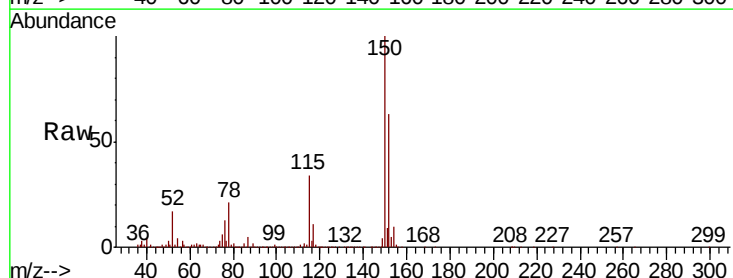
Tgt Ion:152 Resp: 379764

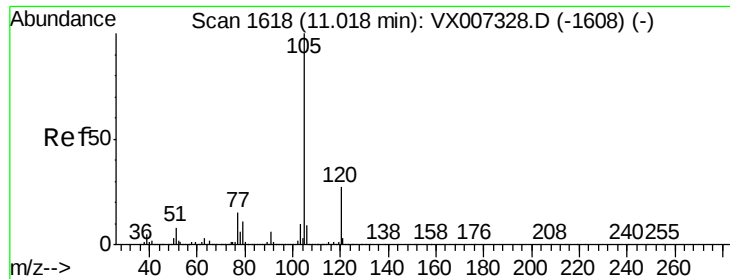
Ion Ratio Lower Upper

152 100

115 55.5 38.0 114.0

150 156.5 0.0 346.4





#73

Isopropylbenzene

Concen: 4.807 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

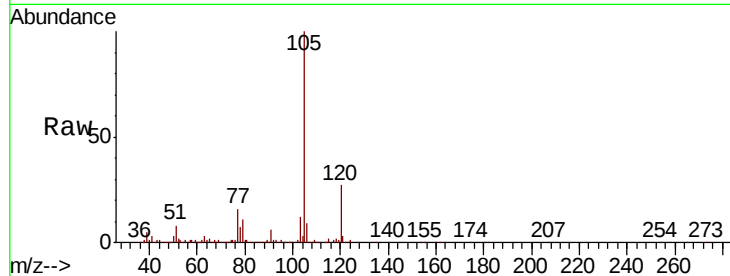
MW-1-20190207

Tot Ion:105 Resp: 124046

Ion Ratio Lower Upper

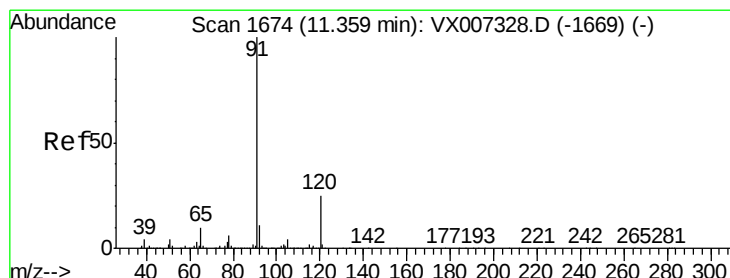
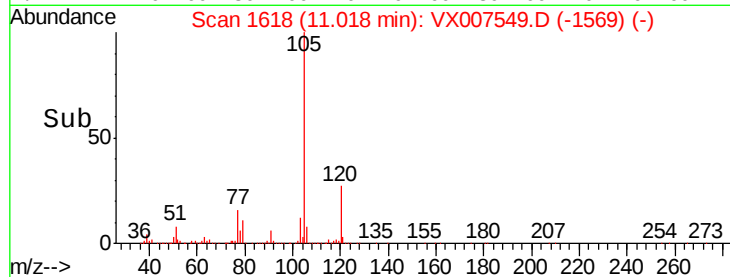
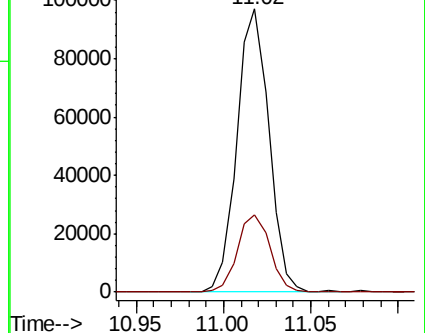
105 100

120 27.9 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 7.746 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007549.D

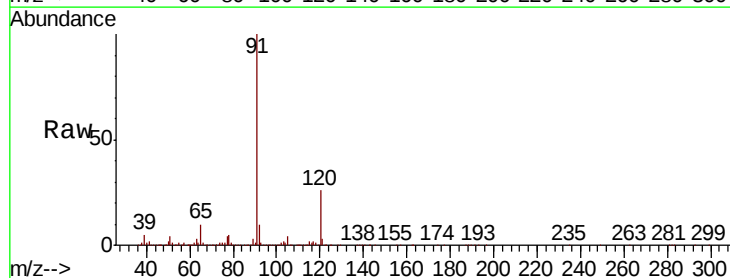
Acq: 14 Feb 2019 16:48

Tgt Ion: 91 Resp: 219198

Ion Ratio Lower Upper

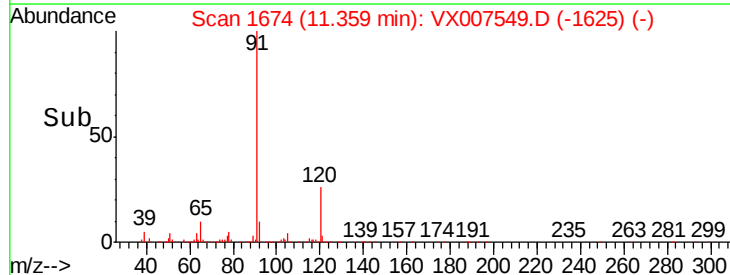
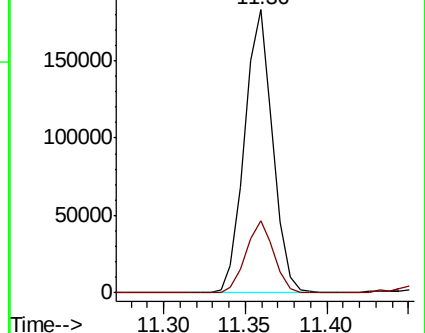
91 100

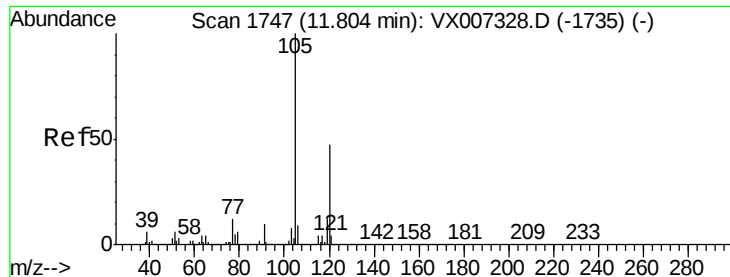
120 25.5 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 0.748 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX007549.D

Acq: 14 Feb 2019 16:48

Instrument :

MSVOA_X

ClientSampleId :

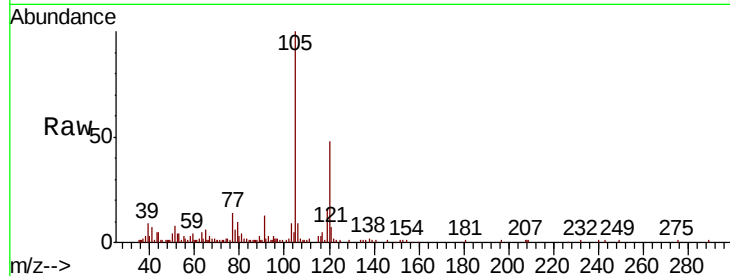
MW-1-20190207

Tot Ion:105 Resp: 16027

Ion Ratio Lower Upper

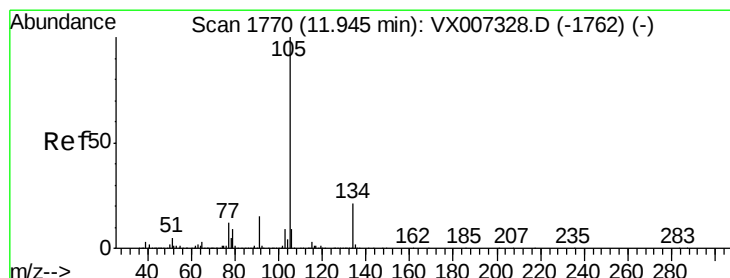
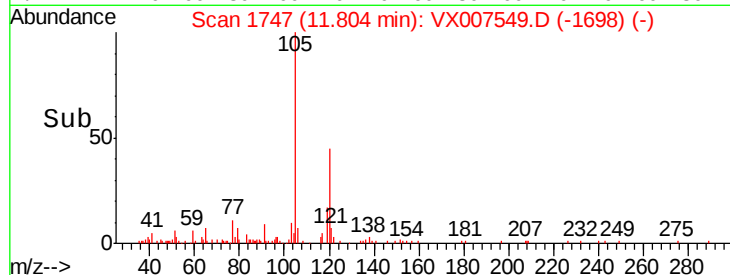
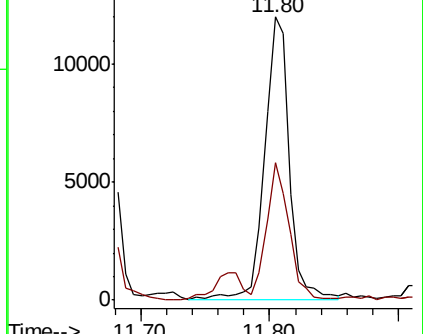
105 100

120 42.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 5.866 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX007549.D

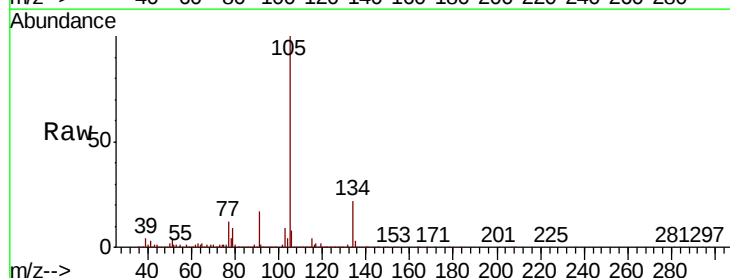
Acq: 14 Feb 2019 16:48

Tgt Ion:105 Resp: 148400

Ion Ratio Lower Upper

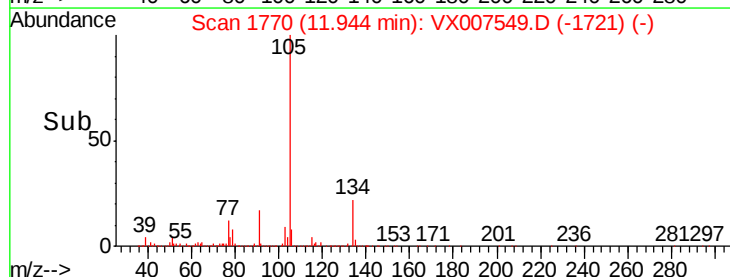
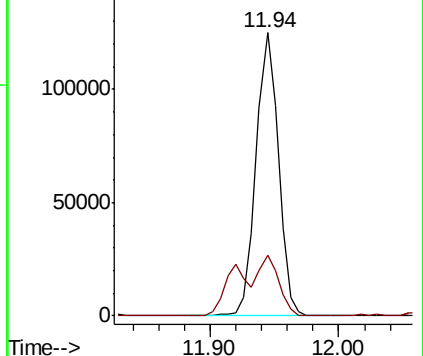
105 100

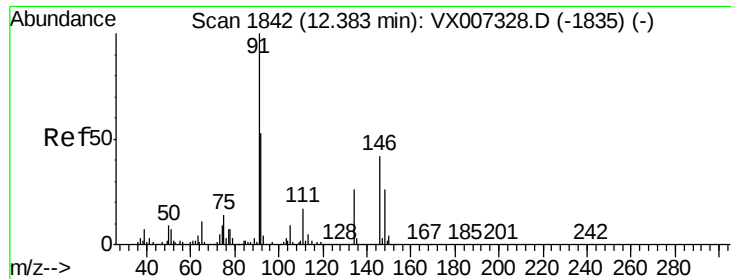
134 19.4 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

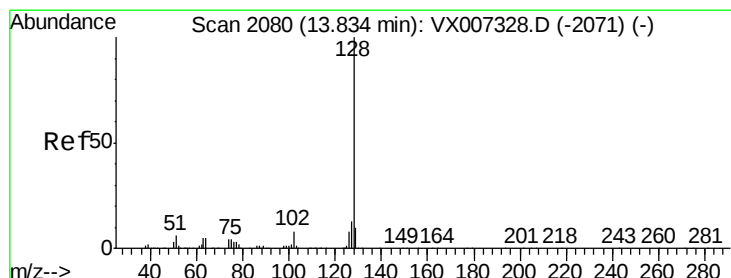
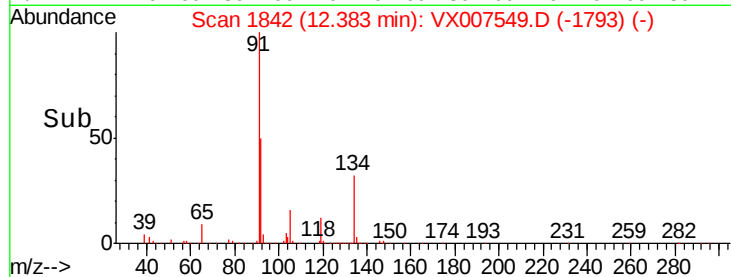
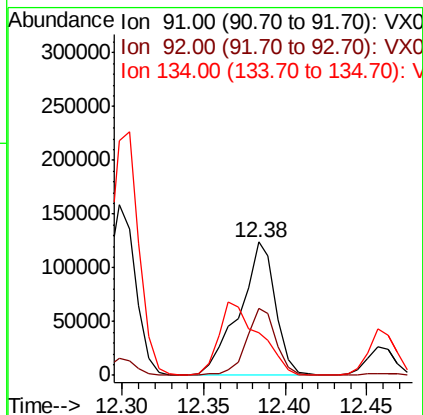
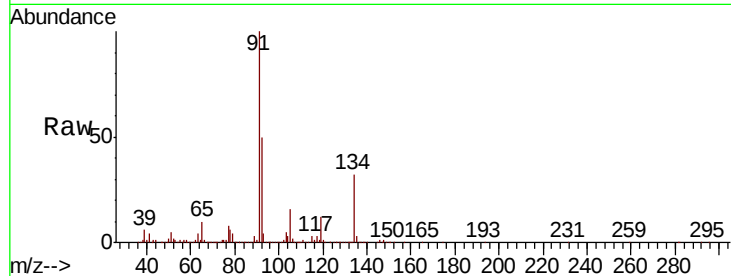




#89
n-Butylbenzene
Concen: 9.688 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

Instrument :
MSVOA_X
ClientSampleId :
MW-1-20190207

Tot Ion: 91 Resp: 190334
Ion Ratio Lower Upper
91 100
92 41.0 26.3 78.9
134 61.3 13.9 41.6#



#95
Naphthalene
Concen: 3.217 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX007549.D
Acq: 14 Feb 2019 16:48

Tgt Ion: 128 Resp: 82387
Ion Ratio Lower Upper
128 100
127 14.7 10.5 15.7
129 17.5 8.7 13.1#

