

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021519\
 Data File : VX007553.D
 Acq On : 14 Feb 2019 18:35
 Operator : JC/SP
 Sample : K1474-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY001MW078-190211

Quant Time: Feb 15 06:27:43 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	509769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	785669	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	753223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	377123	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	270003	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
35) Dibromofluoromethane	5.51	113	253449	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	8.71	98	953664	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.13	95	366761	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	

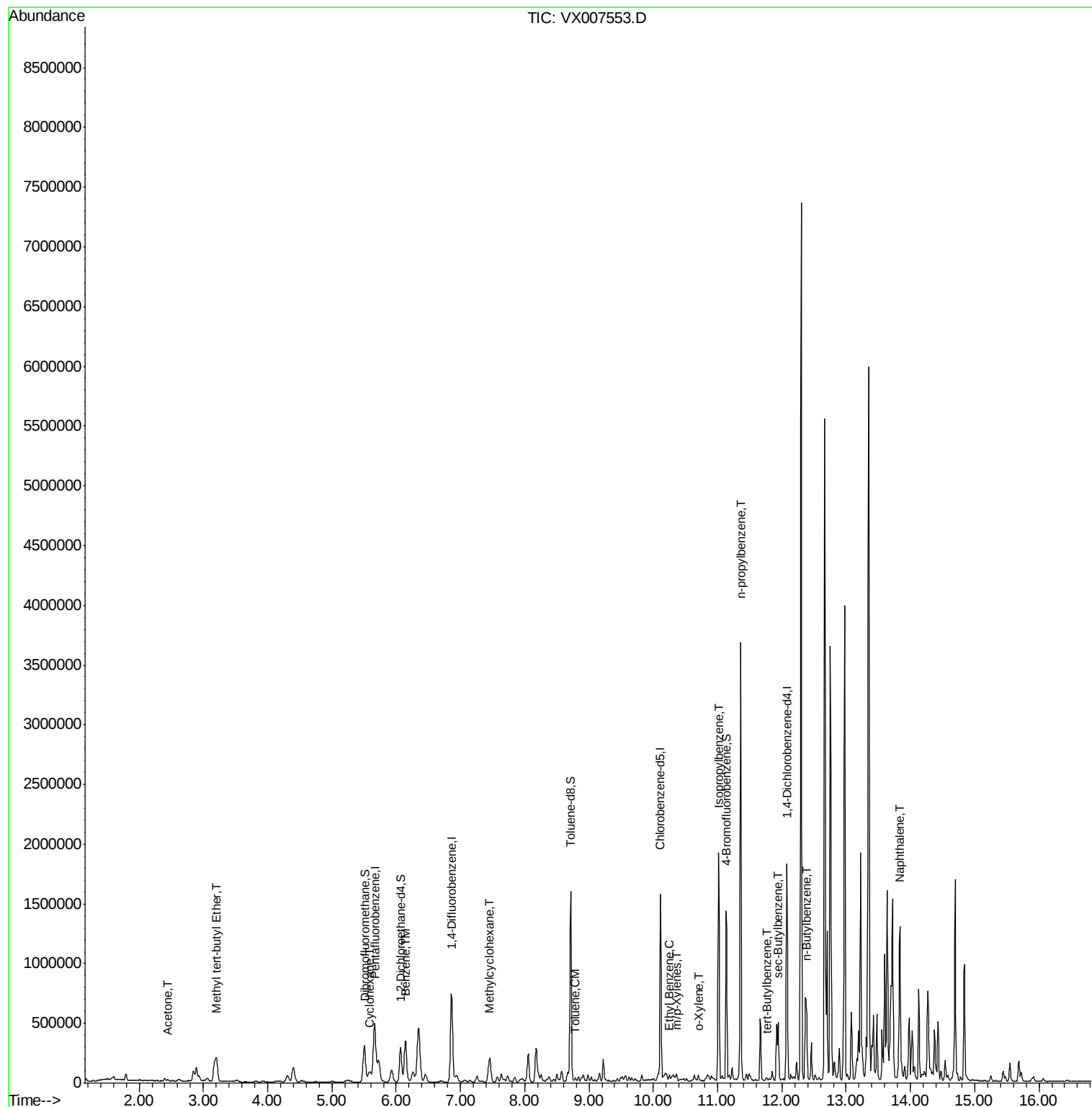
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	9464	3.818	ug/l	90
19) Methyl tert-butyl Ether	3.20	73	199944	12.680	ug/l #	85
31) Cyclohexane	5.59	56	56997	7.575	ug/l	92
39) Methylcyclohexane	7.46	83	84032	9.853	ug/l #	84
40) Benzene	6.15	78	424521	20.444	ug/l	98
52) Toluene	8.78	92	11659	0.870	ug/l	89
67) Ethyl Benzene	10.25	91	22791	0.861	ug/l	97
68) m/p-Xylenes	10.36	106	8465	0.805	ug/l	90
69) o-Xylene	10.69	106	8379	0.828	ug/l	95
73) Isopropylbenzene	11.02	105	973771	37.997	ug/l	99
78) n-propylbenzene	11.36	91	2195490	78.125	ug/l	99
83) tert-Butylbenzene	11.77	119	9222	0.444	ug/l #	45
85) sec-Butylbenzene	11.94	105	214354	8.532	ug/l	95
89) n-Butylbenzene	12.38	91	302910	15.526	ug/l #	77
95) Naphthalene	13.83	128	807983	31.769	ug/l	99

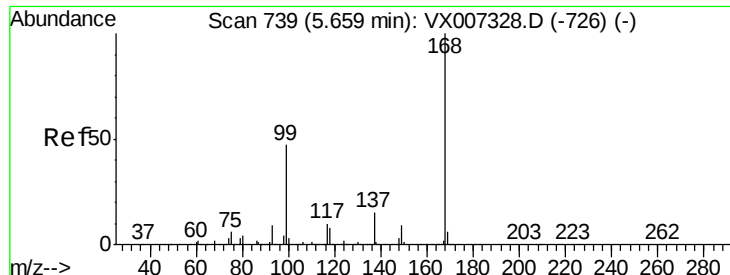
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

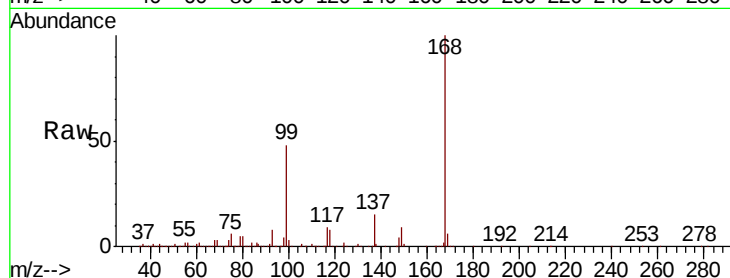
KY001MW078-190211

Tot Ion:168 Resp: 509769

Ion Ratio Lower Upper

168 100

99 48.0 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

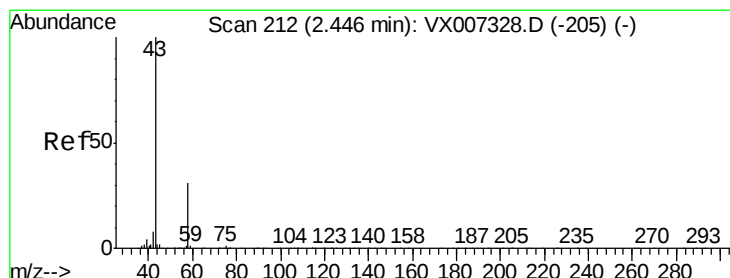
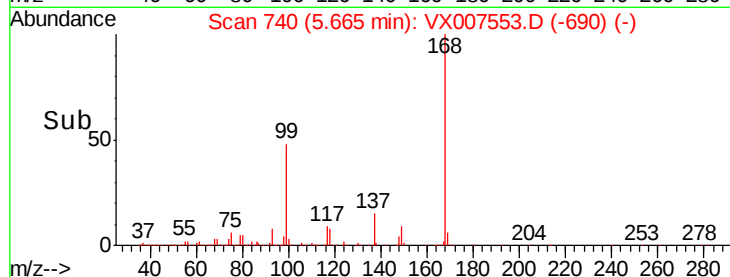
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 3.818 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007553.D

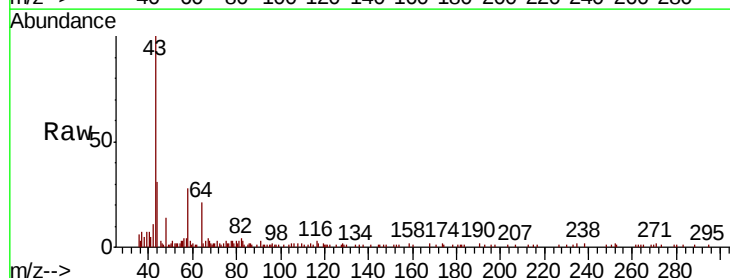
Acq: 14 Feb 2019 18:35

Tgt Ion: 43 Resp: 9464

Ion Ratio Lower Upper

43 100

58 25.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

6000

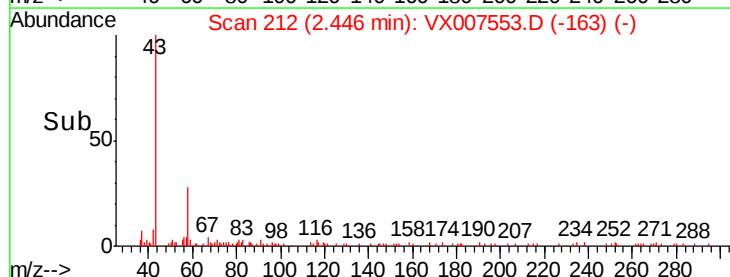
4000

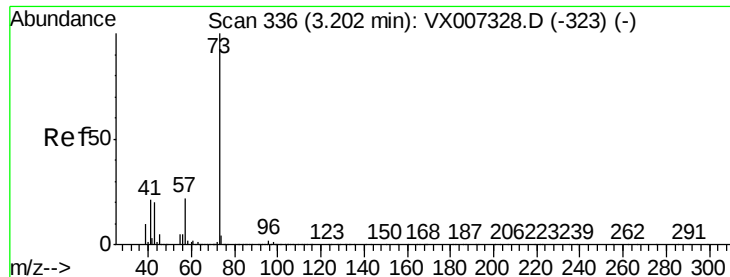
2000

0

Time-->

2.40 2.45 2.50

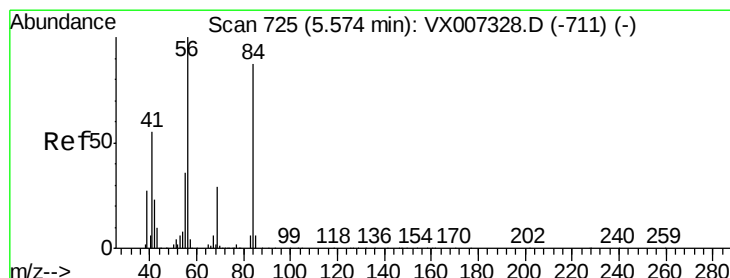
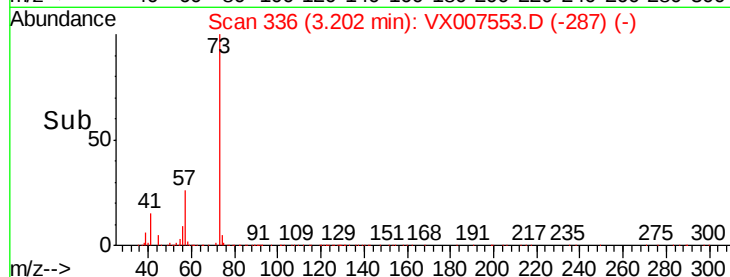
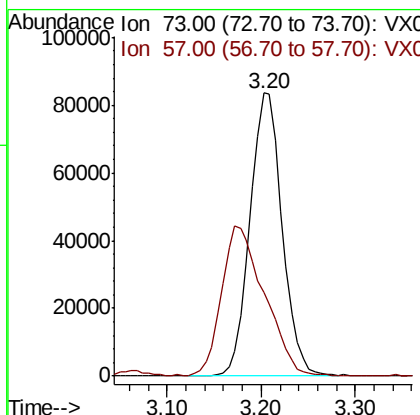
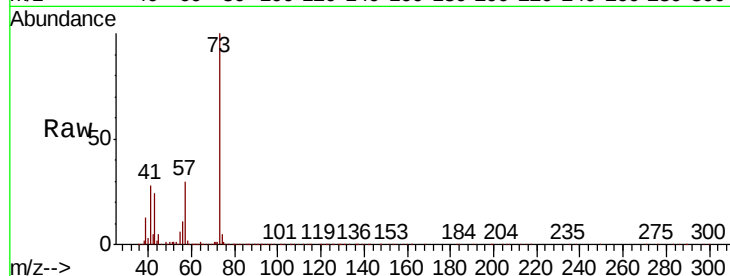




#19
Methvl tert-butvl Ether
Concen: 12.680 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

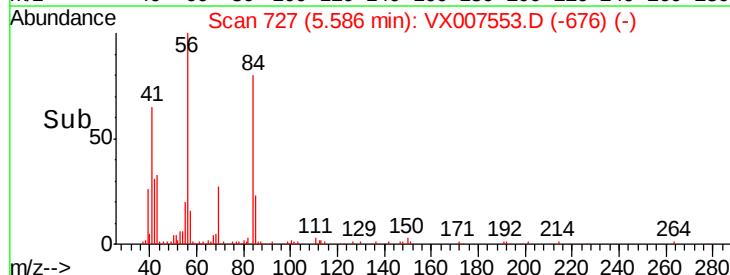
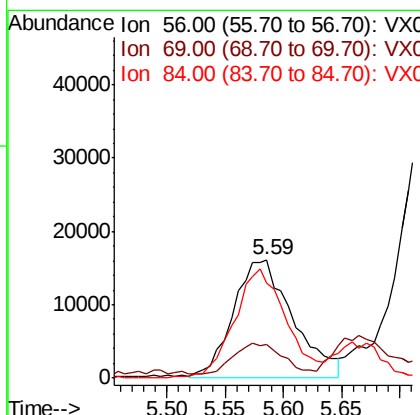
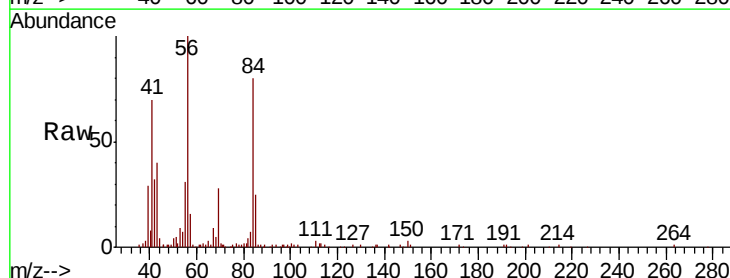
Instrument :
MSVOA_X
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KY001MW078-190211

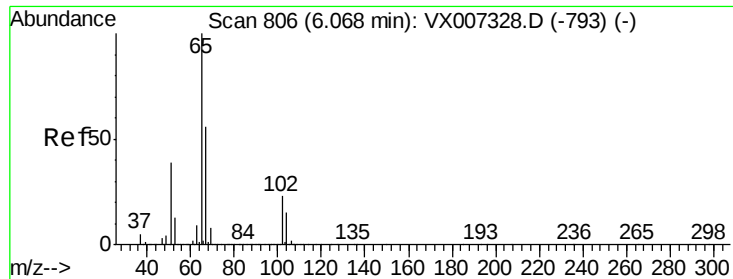
Tot Ion: 73 Resp: 199944
Ion Ratio Lower Upper
73 100
57 29.5 17.8 26.8#



#31
Cyclohexane
Concen: 7.575 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

Tgt Ion: 56 Resp: 56997
Ion Ratio Lower Upper
56 100
69 25.0 23.0 34.6
84 79.9 69.8 104.6





#33

1,2-Dichloroethane-d4

Concen: 49.901 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

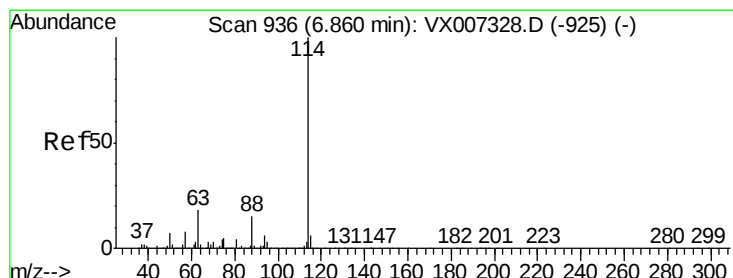
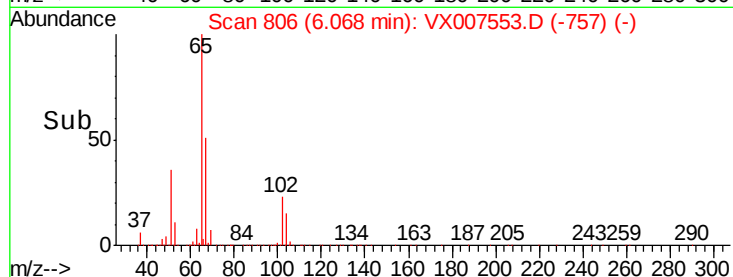
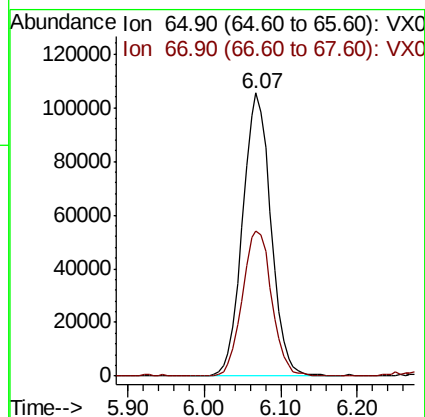
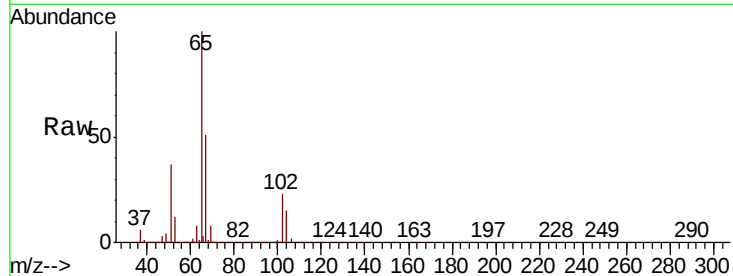
KY001MW078-190211

Tot Ion: 65 Resp: 270003

Ion Ratio Lower Upper

65 100

67 53.3 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: VX007553.D

Acq: 14 Feb 2019 18:35

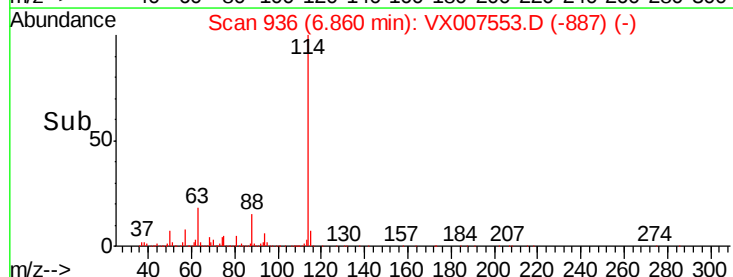
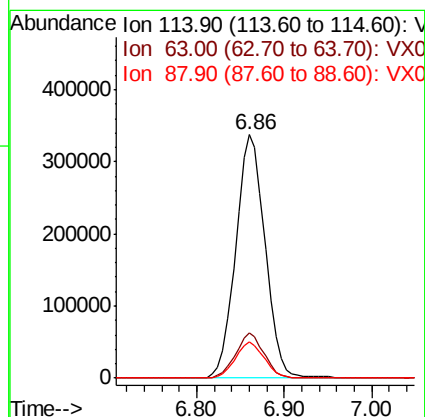
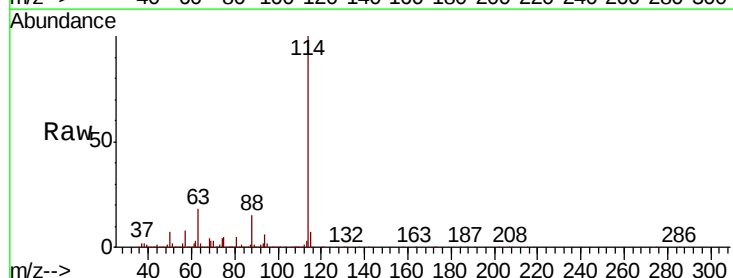
Tgt Ion: 114 Resp: 785669

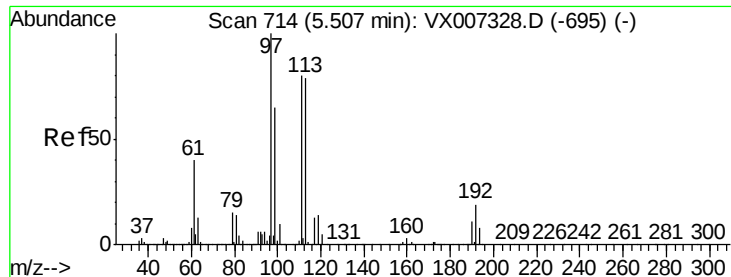
Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

88 14.9 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.579 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

KY001MW078-190211

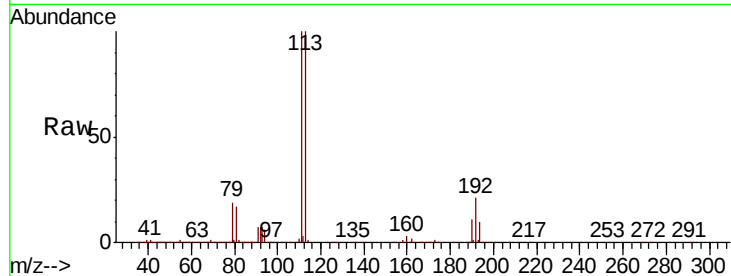
Tot Ion:113 Resp: 253449

Ion Ratio Lower Upper

113 100

111 101.1 81.8 122.8

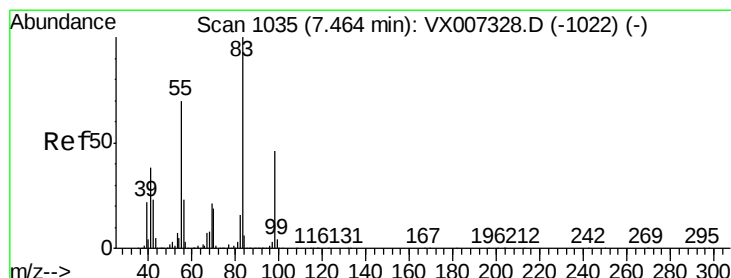
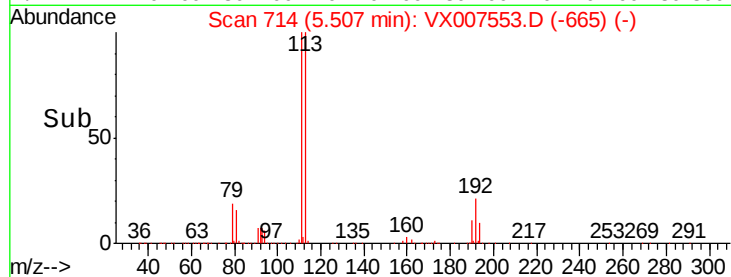
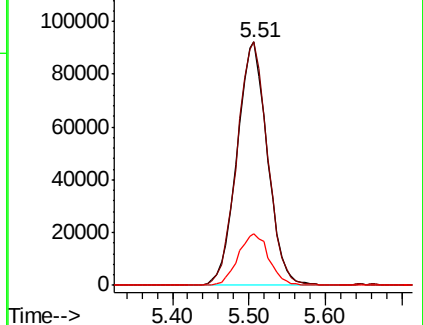
192 21.7 18.5 27.7



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

Methylcyclohexane

Concen: 9.853 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

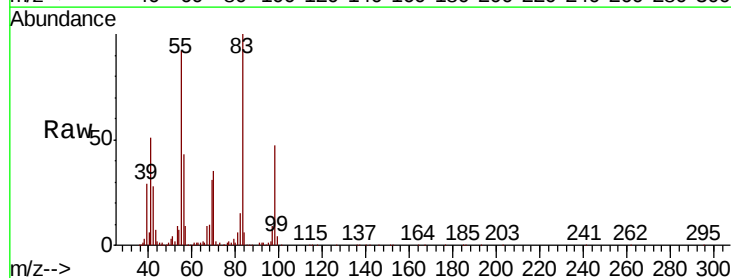
Tgt Ion: 83 Resp: 84032

Ion Ratio Lower Upper

83 100

55 91.4 56.2 84.2#

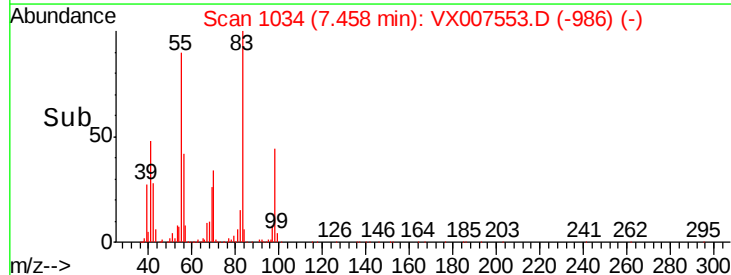
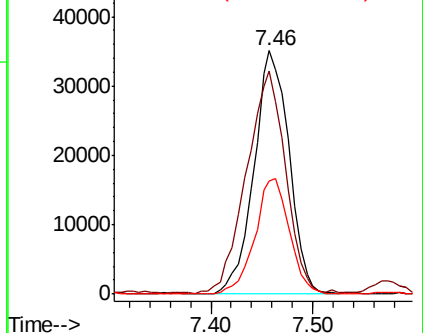
98 46.4 36.8 55.2

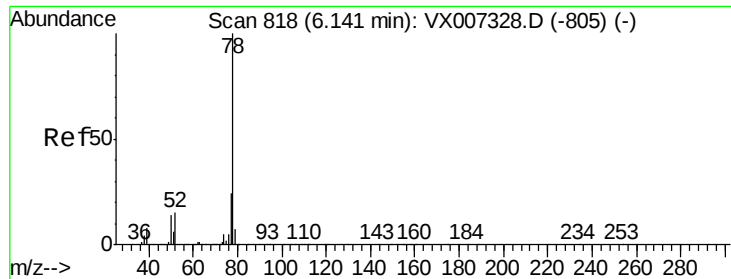


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 20.444 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

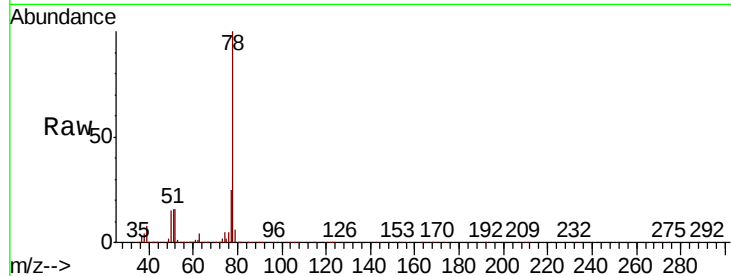
KY001MW078-190211

Tot Ion: 78 Resp: 424521

Ion Ratio Lower Upper

78 100

77 25.1 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

150000

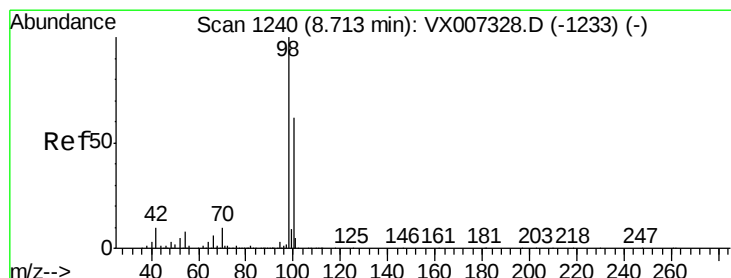
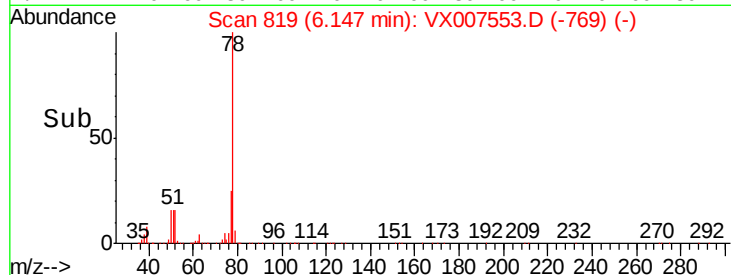
100000

50000

0

Time-->

6.00 6.10 6.20 6.30



#50

Toluene-d8

Concen: 50.281 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007553.D

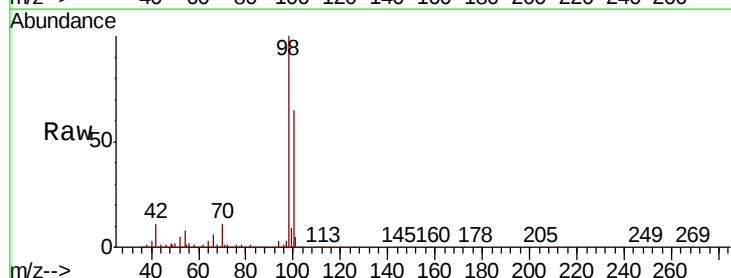
Acq: 14 Feb 2019 18:35

Tgt Ion: 98 Resp: 953664

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

600000

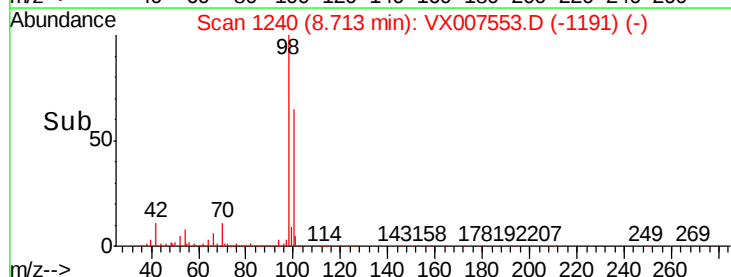
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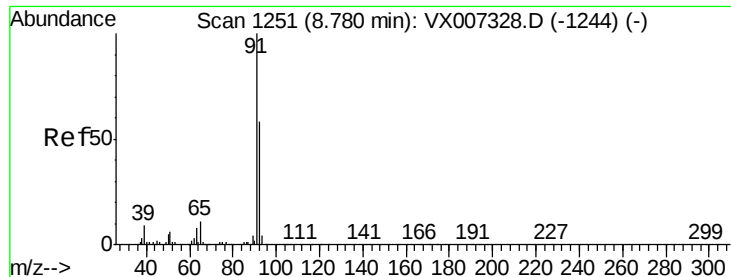
200000

0

Time-->

8.60 8.70 8.80





#52

Toluene

Concen: 0.870 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

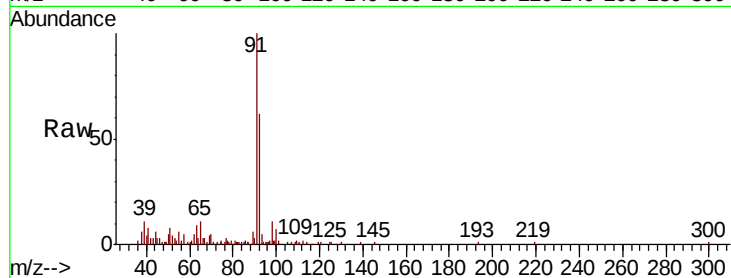
KY001MW078-190211

Tot Ion: 92 Resp: 11659

Ion Ratio Lower Upper

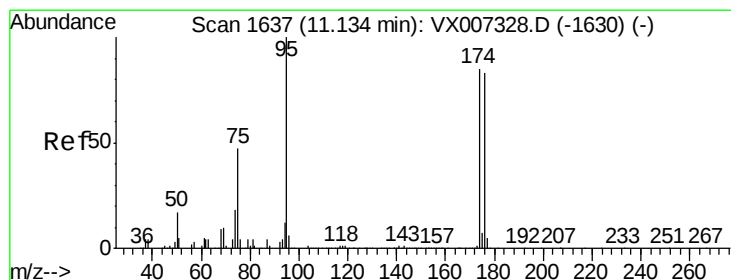
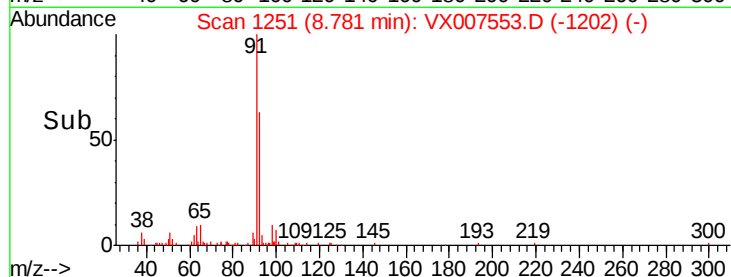
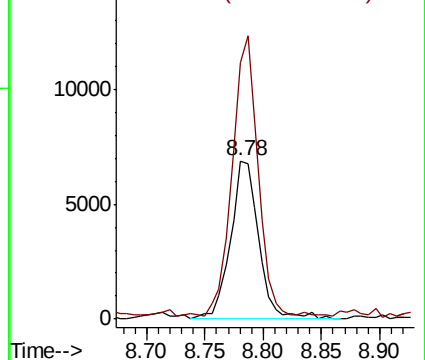
92 100

91 158.6 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 52.964 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

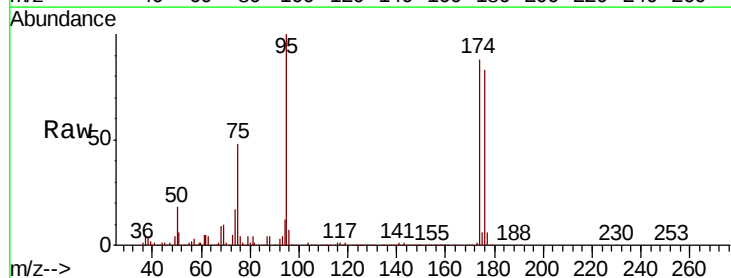
Tgt Ion: 95 Resp: 366761

Ion Ratio Lower Upper

95 100

174 89.6 0.0 189.2

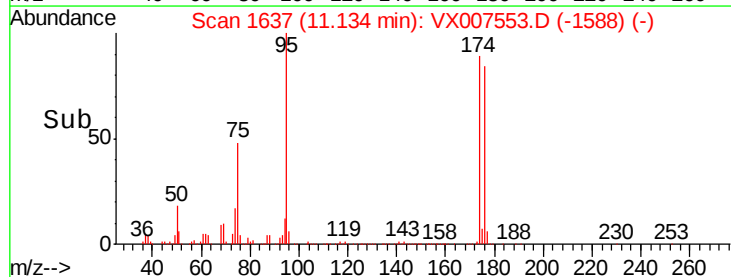
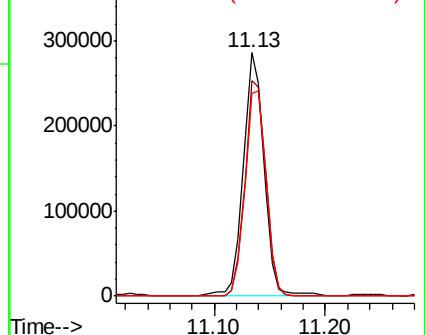
176 86.7 0.0 186.2

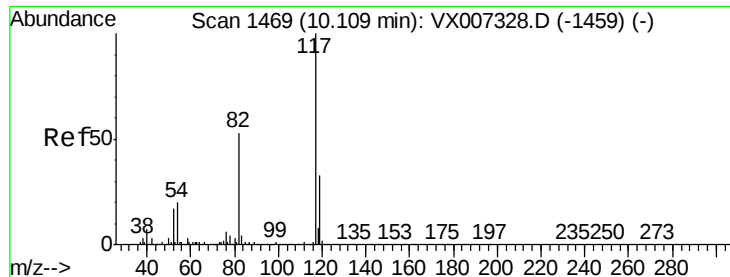


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

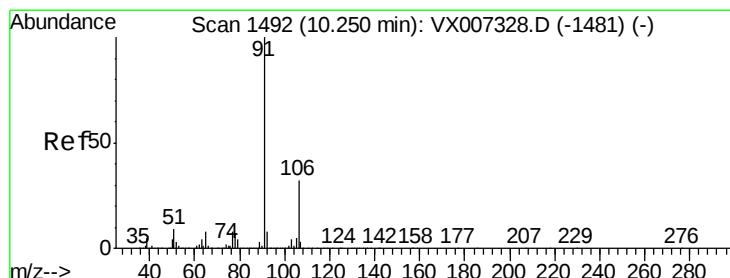
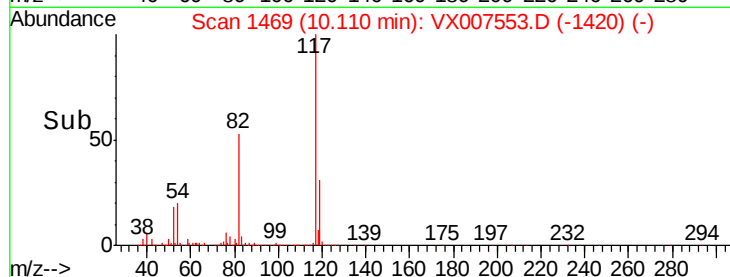
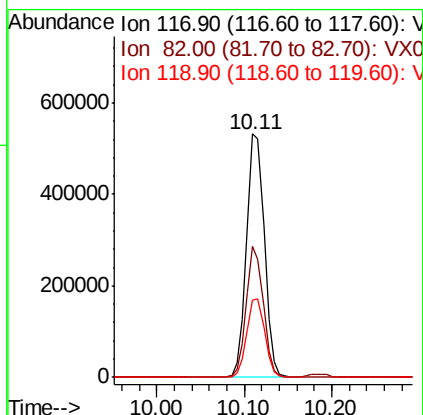
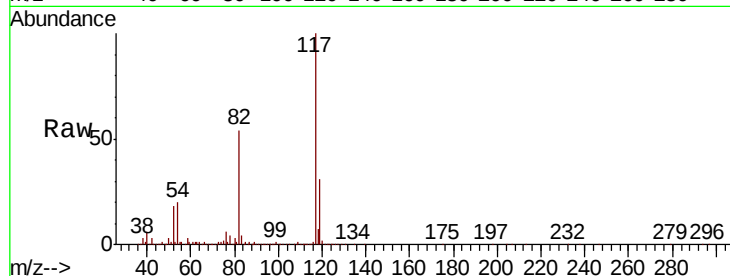




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

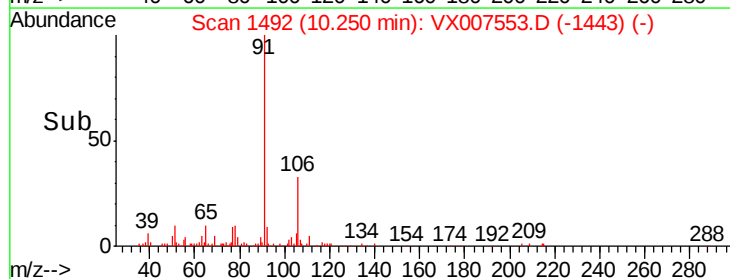
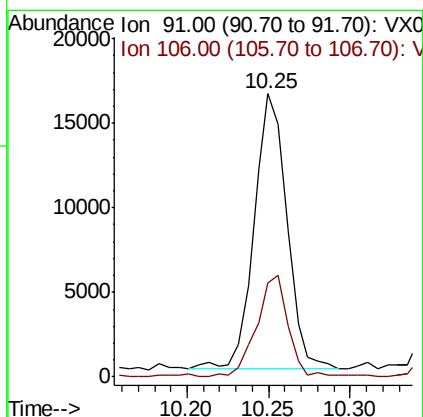
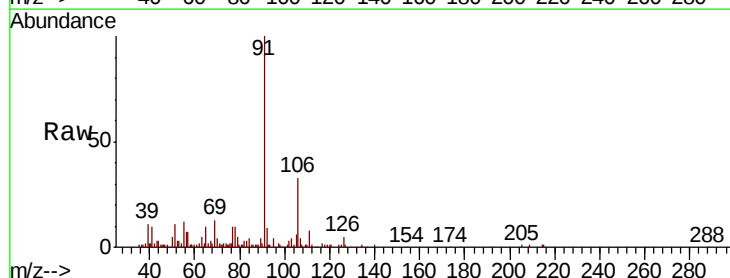
Instrument :
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KY001MW078-190211

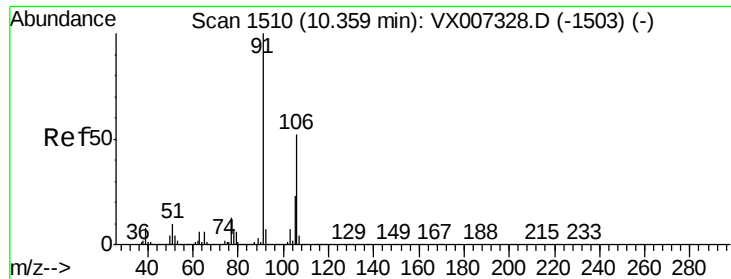
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.1	63.1
119	31.5	26.5	39.7



#67
Ethyl Benzene
Concen: 0.861 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.6	25.4	38.0





#68

m/p-Xylenes

Concen: 0.805 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

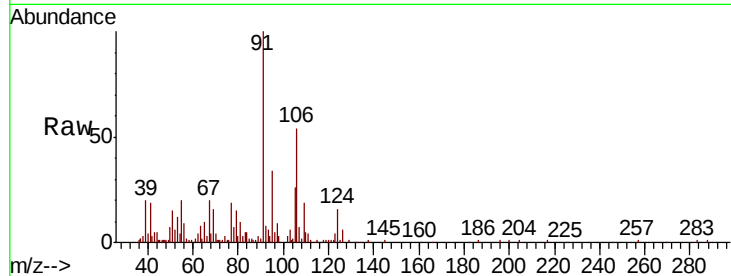
KY001MW078-190211

Tot Ion:106 Resp: 8465

Ion Ratio Lower Upper

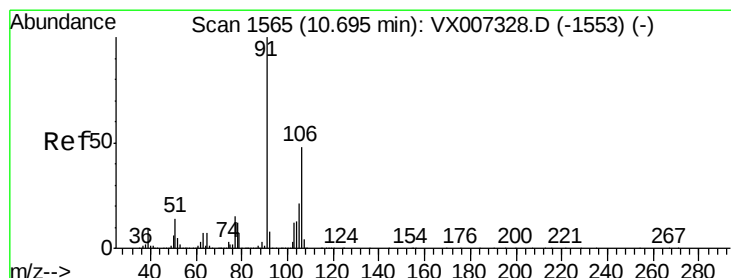
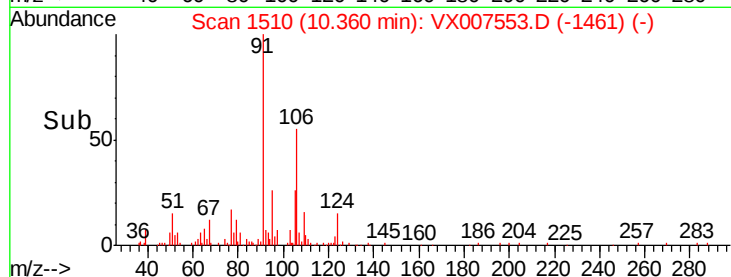
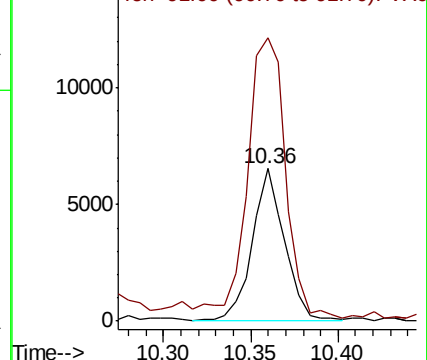
106 100

91 210.9 156.6 234.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.828 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VX007553.D

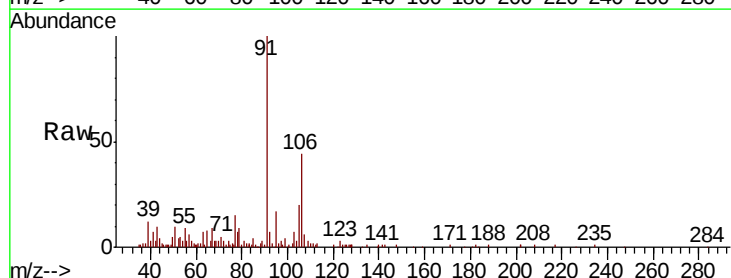
Acq: 14 Feb 2019 18:35

Tgt Ion:106 Resp: 8379

Ion Ratio Lower Upper

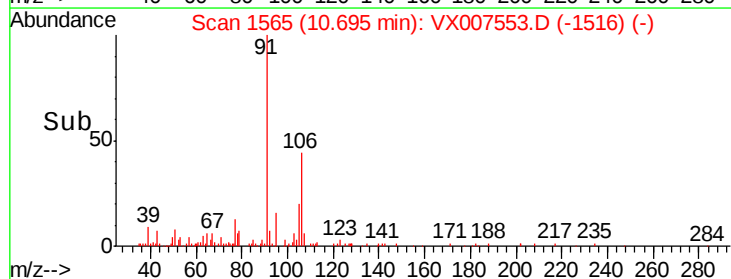
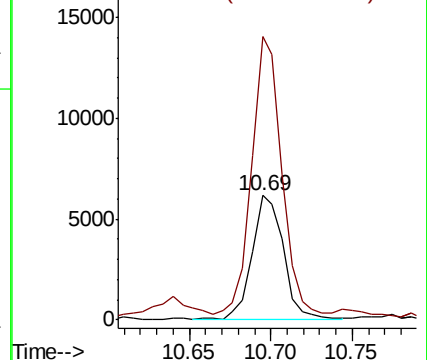
106 100

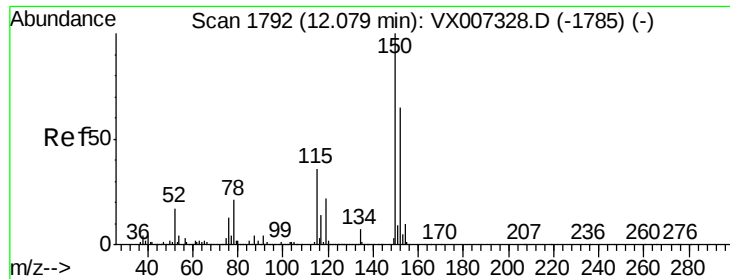
91 214.1 102.9 308.7



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: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

KY001MW078-190211

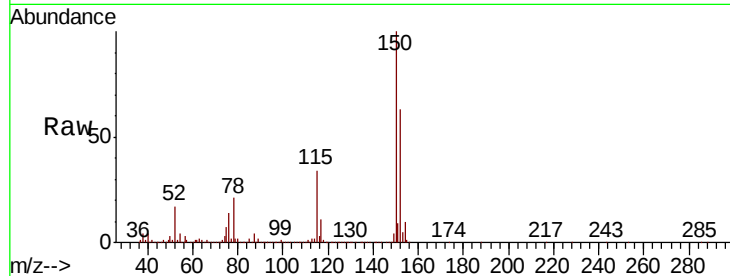
Tot Ion:152 Resp: 377123

Ion Ratio Lower Upper

152 100

115 56.0 38.0 114.0

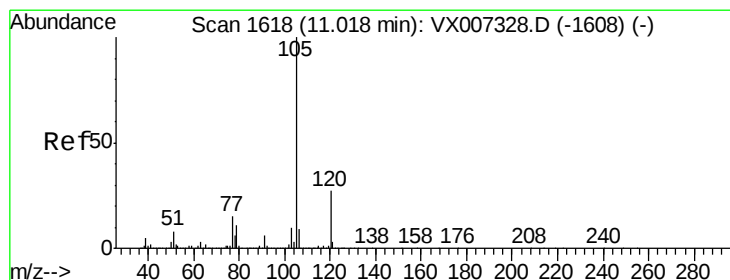
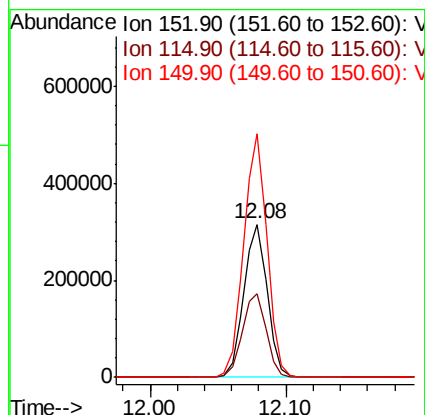
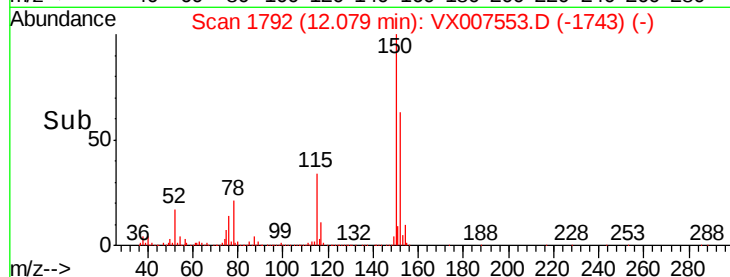
150 158.8 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 37.997 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX007553.D

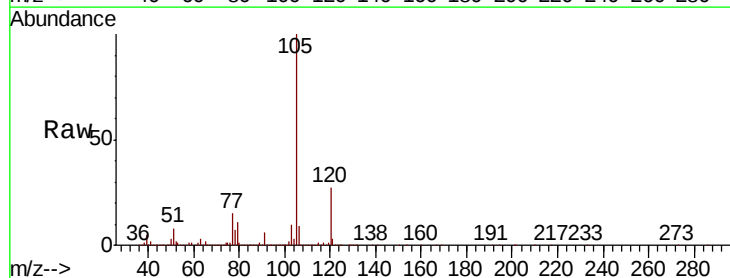
Acq: 14 Feb 2019 18:35

Tgt Ion:105 Resp: 973771

Ion Ratio Lower Upper

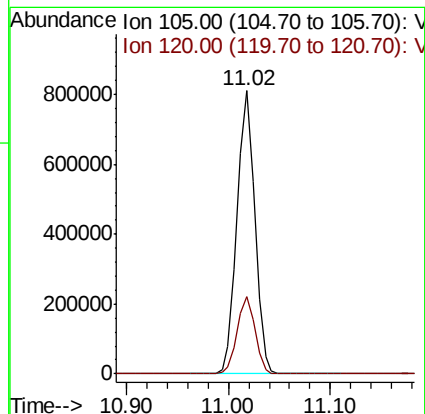
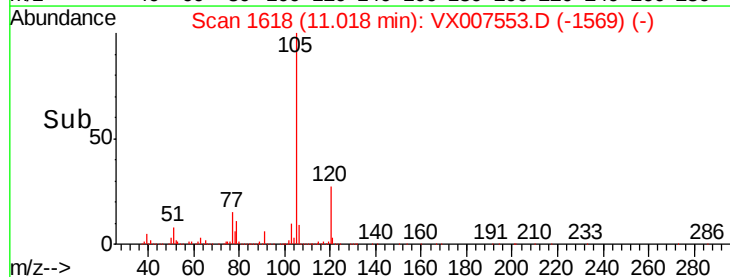
105 100

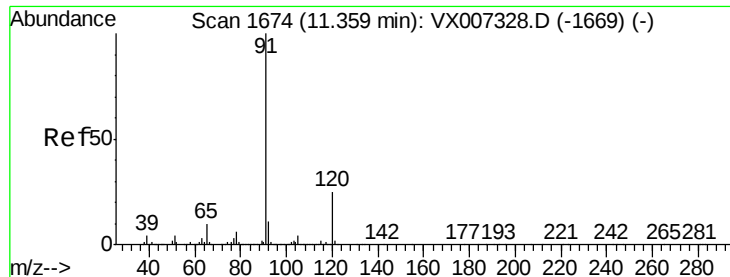
120 27.4 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

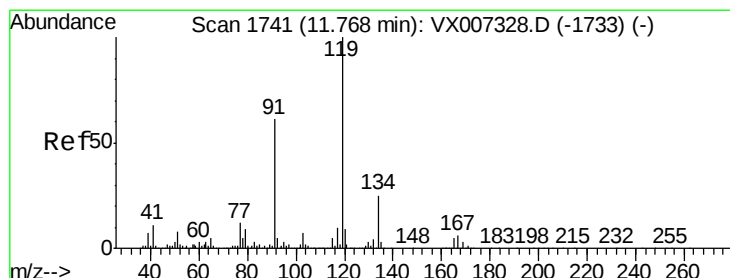
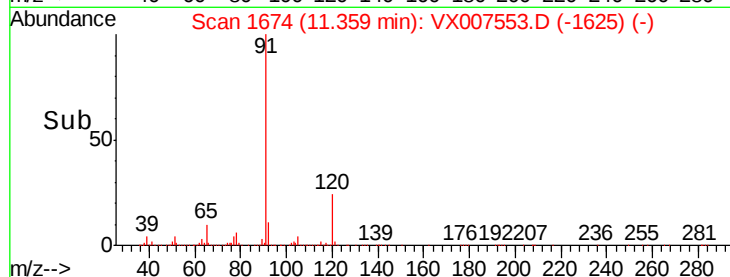
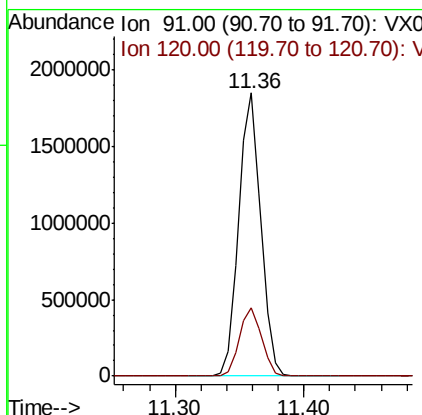
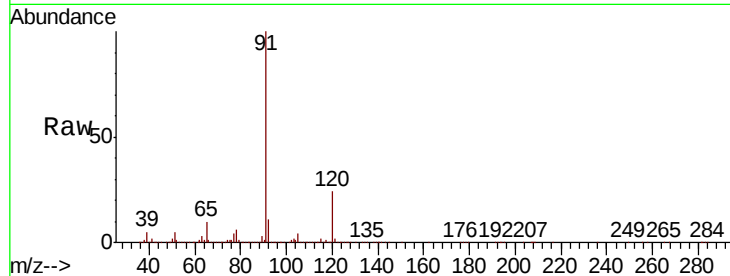




#78
n-propylbenzene
Concen: 78.125 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

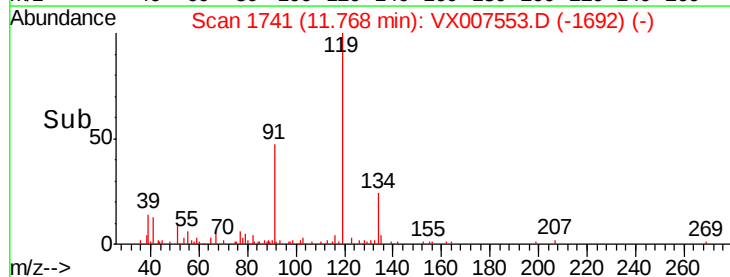
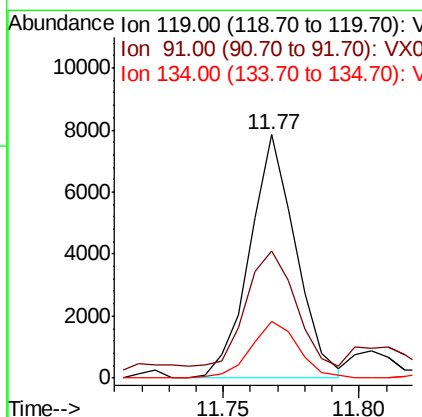
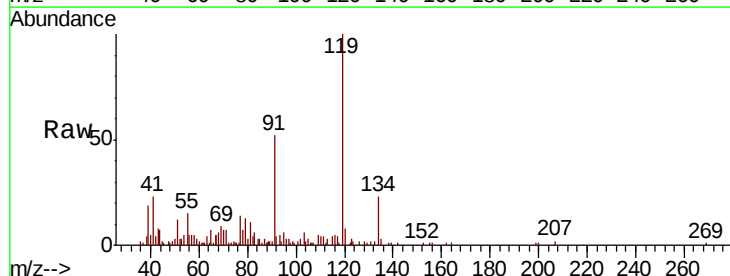
Instrument :
MSVOA_X
ClientSampleId :
KY001MW078-190211

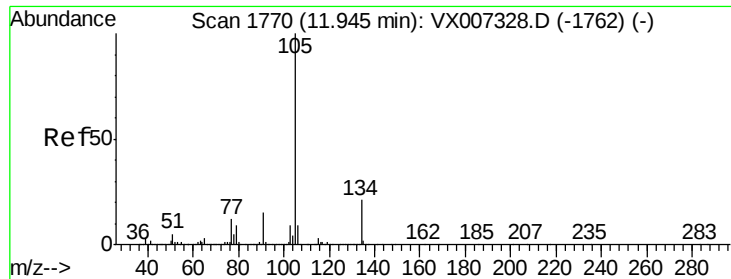
Tot Ion: 91 Resp: 2195490
Ion Ratio Lower Upper
91 100
120 24.3 12.4 37.2



#83
tert-Butylbenzene
Concen: 0.444 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX007553.D
Acq: 14 Feb 2019 18:35

Tgt Ion: 119 Resp: 9222
Ion Ratio Lower Upper
119 100
91 0.0 28.5 85.6#
134 23.9 12.0 36.0





#85

sec-Butylbenzene

Concen: 8.532 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

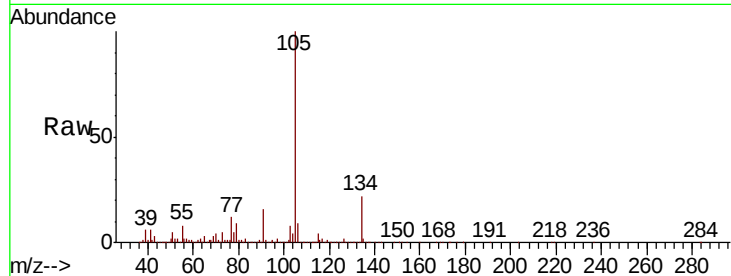
KY001MW078-190211

Tot Ion:105 Resp: 214354

Ion Ratio Lower Upper

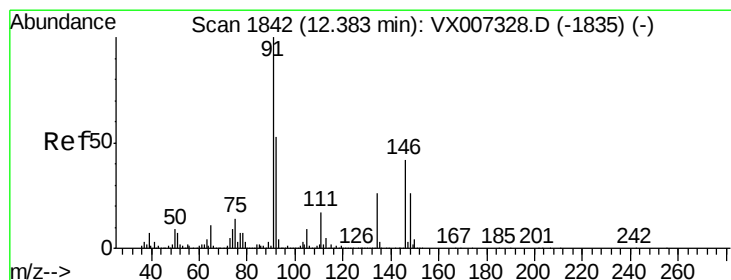
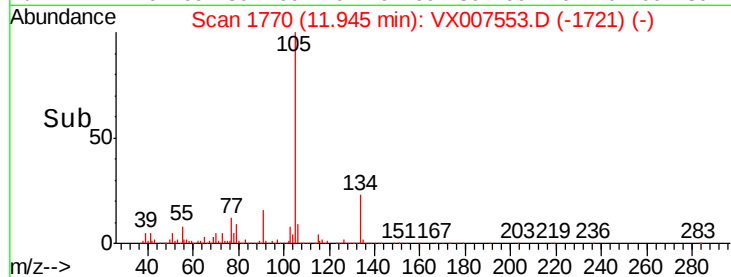
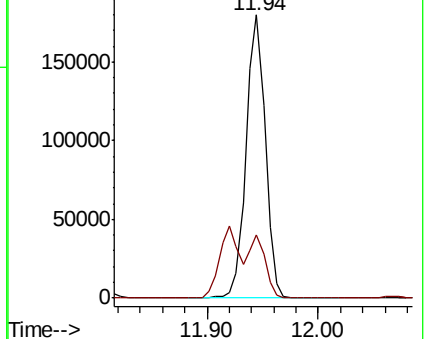
105 100

134 18.9 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: 15.526 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

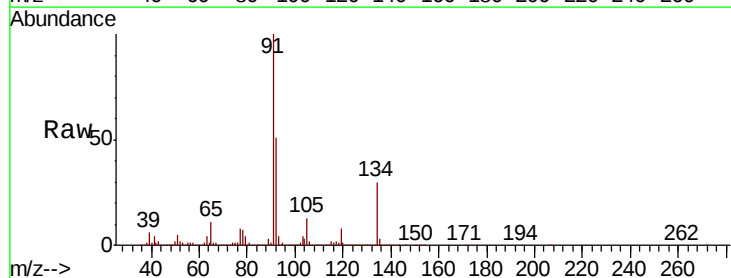
Tgt Ion: 91 Resp: 302910

Ion Ratio Lower Upper

91 100

92 44.7 26.3 78.9

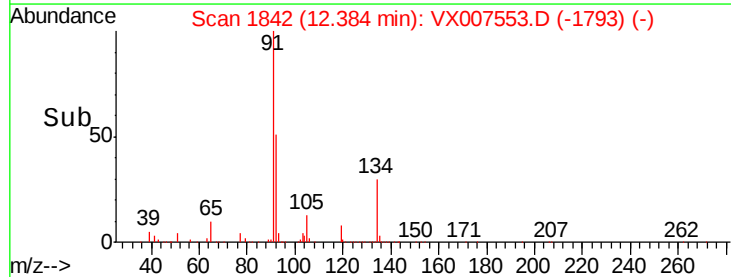
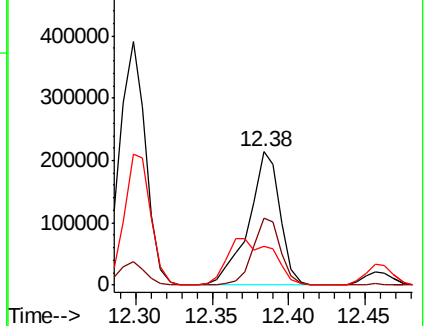
134 51.1 13.9 41.6#

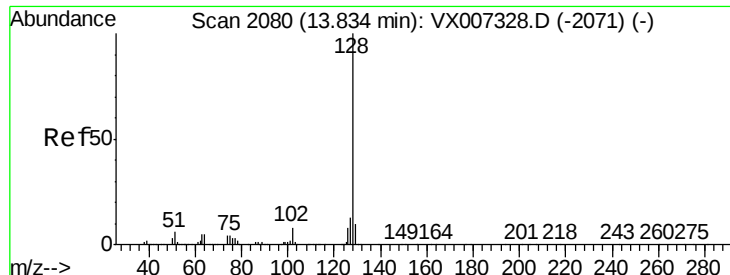


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 31.769 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007553.D

Acq: 14 Feb 2019 18:35

Instrument :

MSVOA_X

ClientSampleId :

KY001MW078-190211

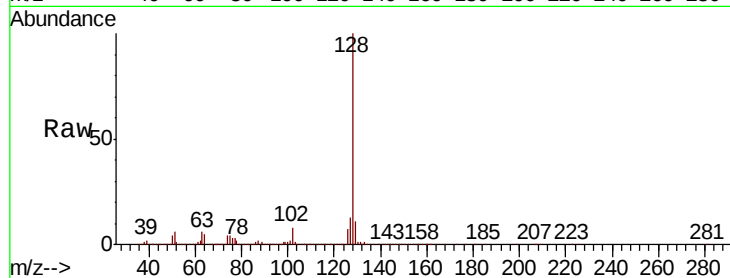
Tot Ion:128 Resp: 807983

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

129 12.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

