

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010258.D
 Acq On : 12 Jun 2019 18:08
 Operator : JC/SP
 Sample : K3309-03 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY032MW006-190610

Quant Time: Jun 13 03:34:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	323204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	485599	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	442428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212528	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	145573	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	
35) Dibromofluoromethane	5.50	113	148103	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
50) Toluene-d8	8.71	98	573588	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
62) 4-Bromofluorobenzene	11.13	95	195034	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	

Target Compounds

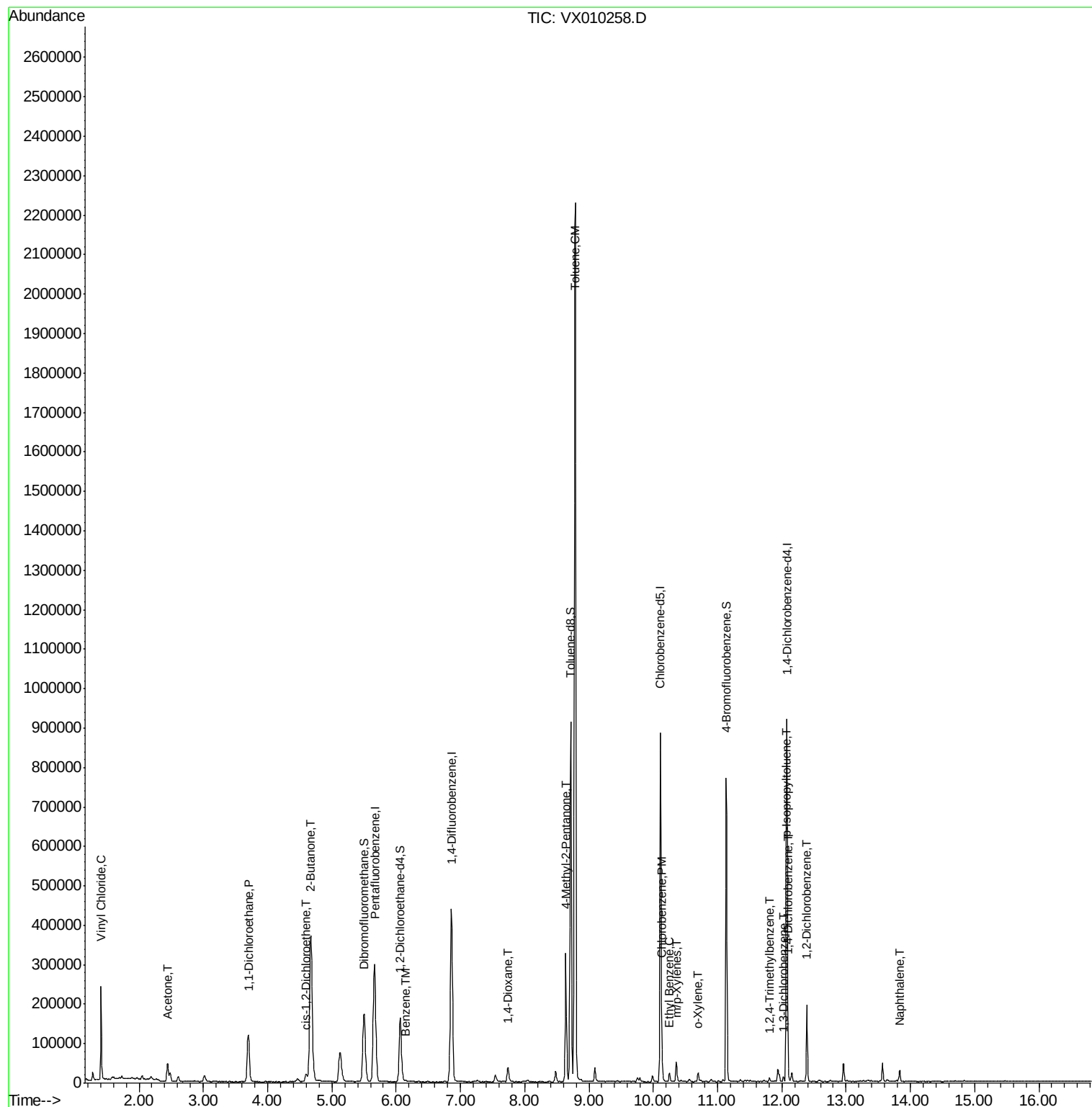
						Qvalue
4) Vinyl Chloride	1.41	62	157783	56.842	ug/l	99
16) Acetone	2.44	43	49431	33.313	ug/l	94
24) 1,1-Dichloroethane	3.70	63	138286	27.184	ug/l	95
25) 2-Butanone	4.67	43	633408	286.664	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	13244	3.706	ug/l	70
40) Benzene	6.14	78	3807	0.311	ug/l #	90
49) 1,4-Dioxane	7.74	88	30733	334.424	ug/l #	75
51) 4-Methyl-2-Pentanone	8.64	43	181345	44.044	ug/l	90
52) Toluene	8.79	92	875358	108.702	ug/l	100
65) Chlorobenzene	10.13	112	9954	1.090	ug/l	97
67) Ethyl Benzene	10.25	91	13606	0.875	ug/l	93
68) m/p-Xylenes	10.36	106	12211	2.030	ug/l	79
69) o-Xylene	10.69	106	5248	0.878	ug/l	88
84) 1,2,4-Trimethylbenzene	11.80	105	3588	0.284	ug/l	96
86) p-Isopropyltoluene	12.06	119	3519	0.261	ug/l #	70
87) 1,3-Dichlorobenzene	12.02	146	3136	0.436	ug/l	91
88) 1,4-Dichlorobenzene	12.10	146	13914	1.921	ug/l	90
91) 1,2-Dichlorobenzene	12.39	146	67177	9.616	ug/l	96
95) Naphthalene	13.83	128	18692	1.161	ug/l	99

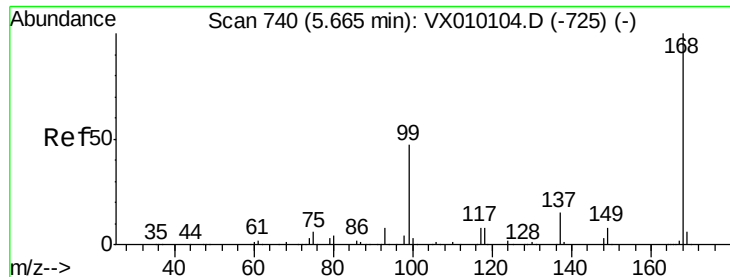
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

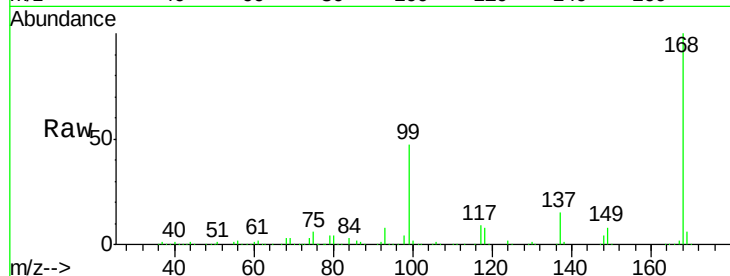
KY032MW006-190610

Tot Ion:168 Resp: 323204

Ion Ratio Lower Upper

168 100

99 46.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

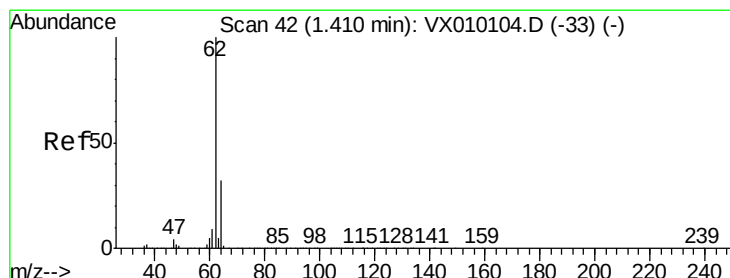
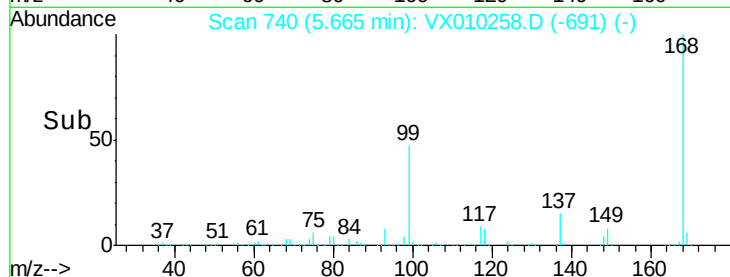
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 56.842 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010258.D

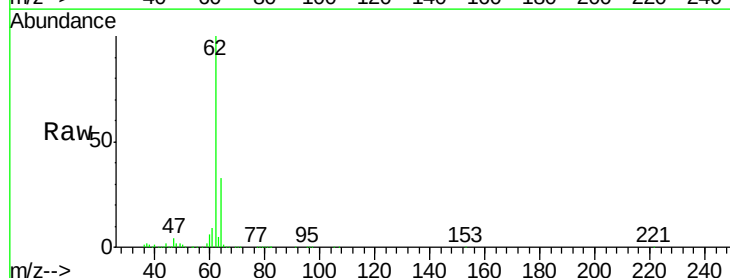
Acq: 12 Jun 2019 18:08

Tgt Ion: 62 Resp: 157783

Ion Ratio Lower Upper

62 100

64 32.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

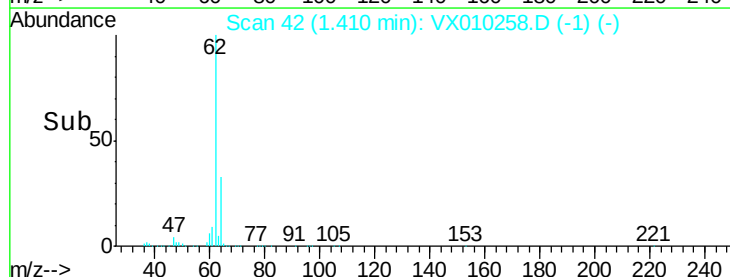
150000

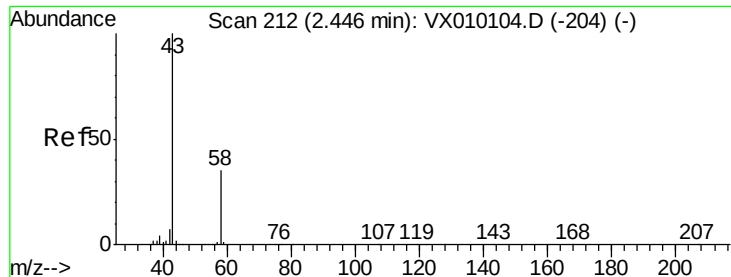
100000

50000

0

Time--> 1.35 1.40 1.45 1.50





#16

Acetone

Concen: 33.313 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

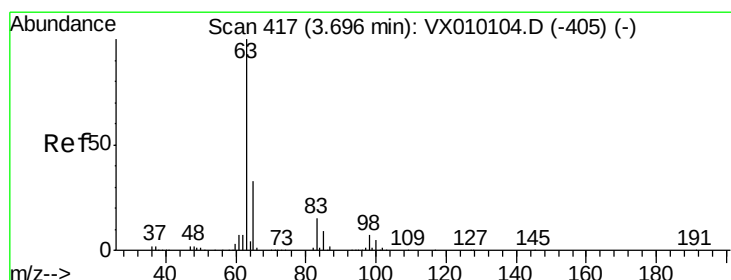
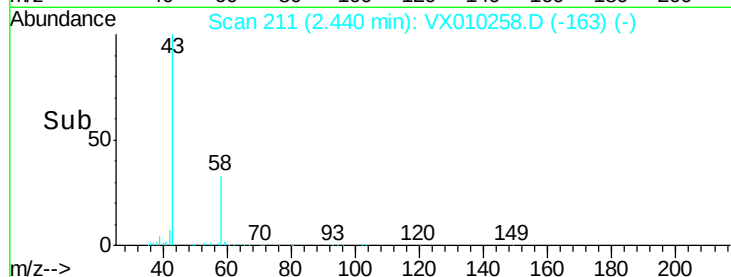
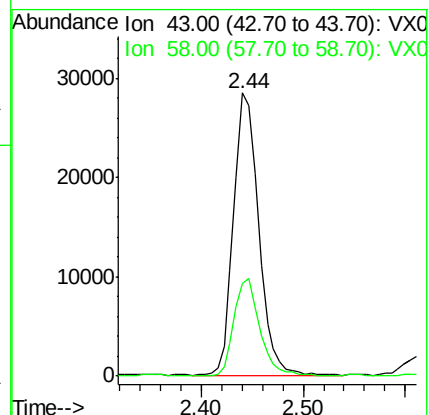
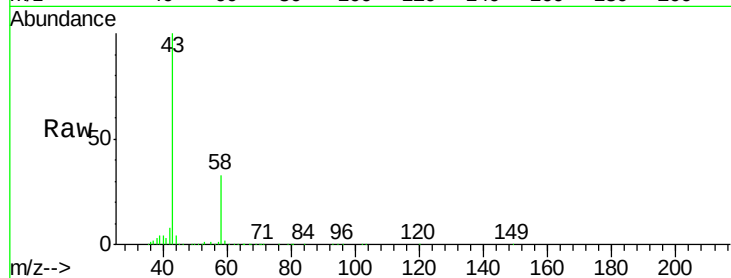
KY032MW006-190610

Tot Ion: 43 Resp: 49431

Ion Ratio Lower Upper

43 100

58 32.4 23.2 34.8



#24

1,1-Dichloroethane

Concen: 27.184 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

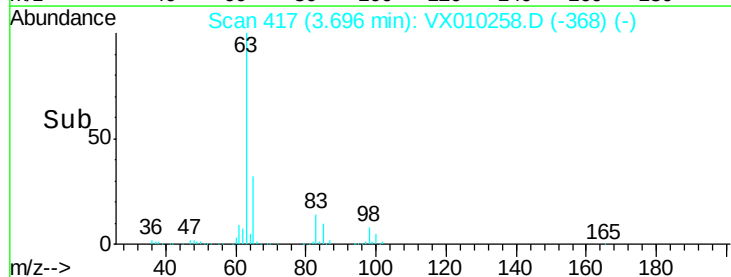
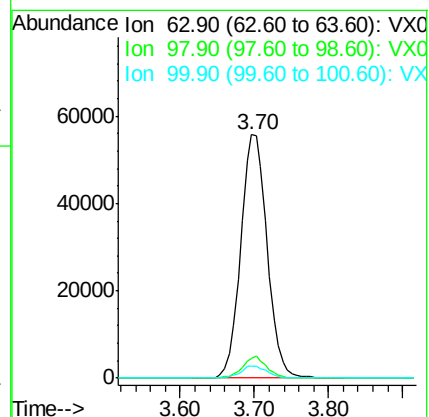
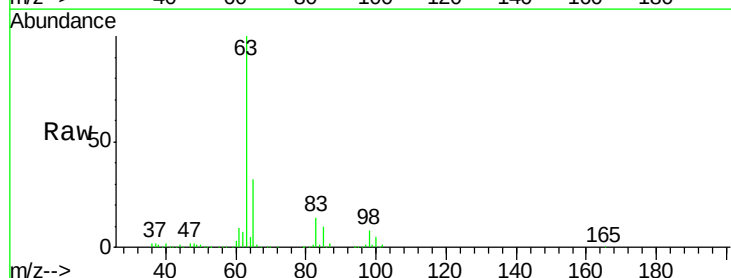
Tgt Ion: 63 Resp: 138286

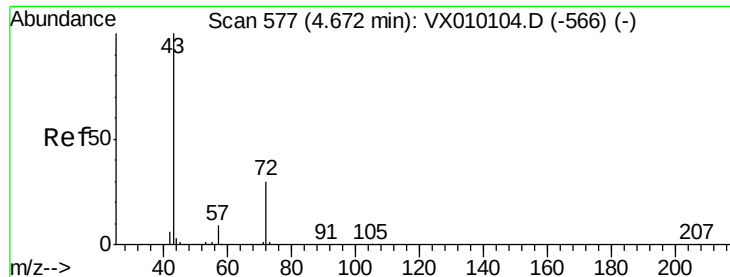
Ion Ratio Lower Upper

63 100

98 7.8 2.9 8.8

100 5.1 1.8 5.4





#25

2-Butanone

Concen: 286.664 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

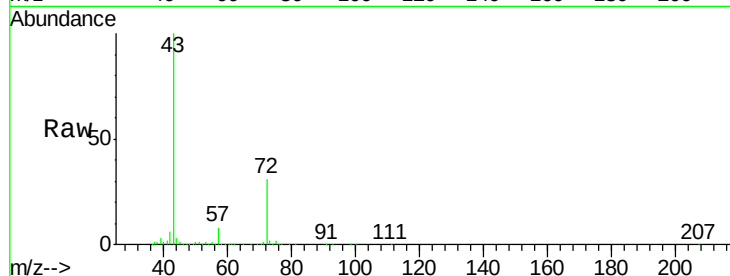
KY032MW006-190610

Tot Ion: 43 Resp: 633408

Ion Ratio Lower Upper

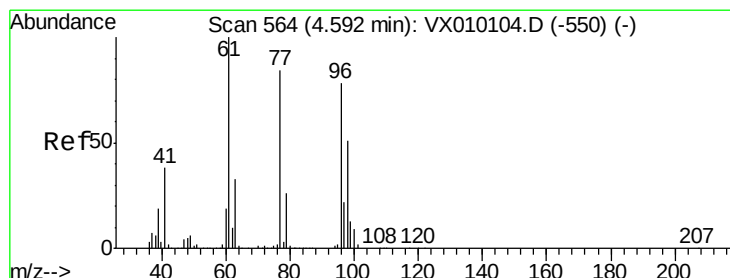
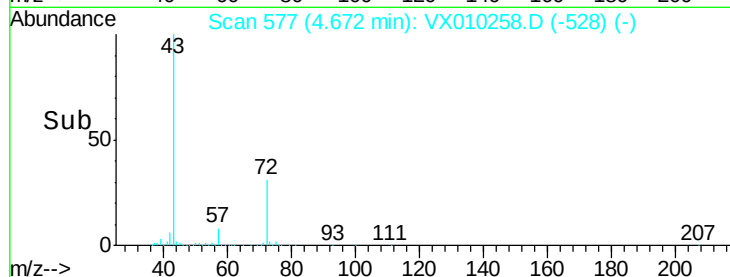
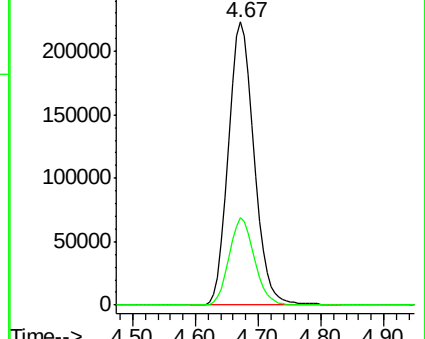
43 100

72 30.8 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 3.706 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

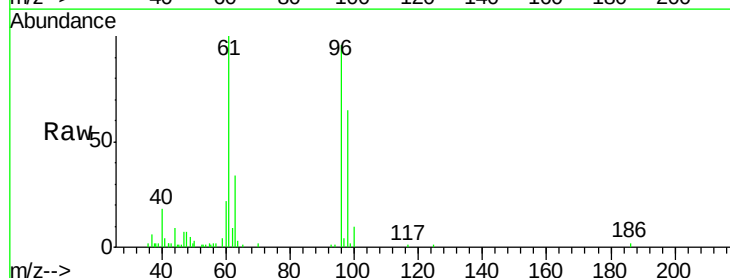
Tgt Ion: 96 Resp: 13244

Ion Ratio Lower Upper

96 100

61 111.0 0.0 334.0

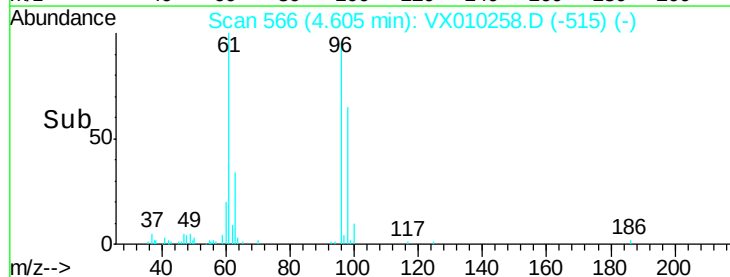
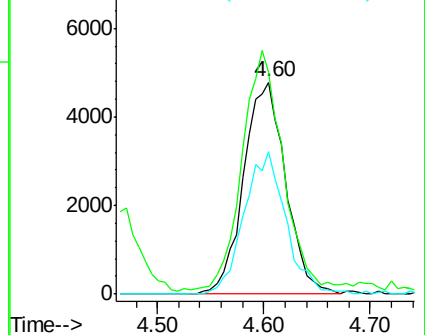
98 66.6 0.0 131.6

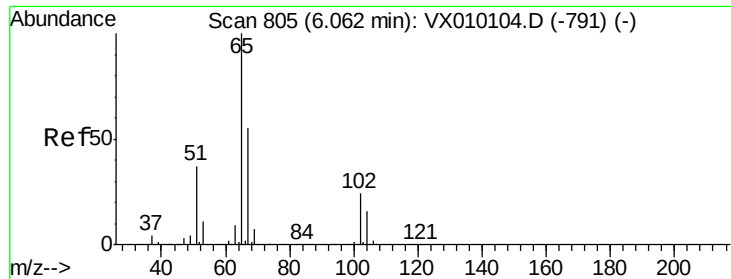


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

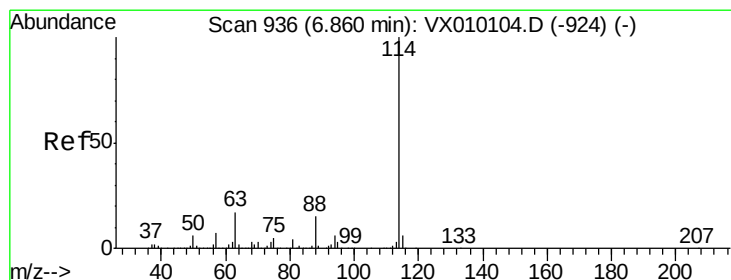
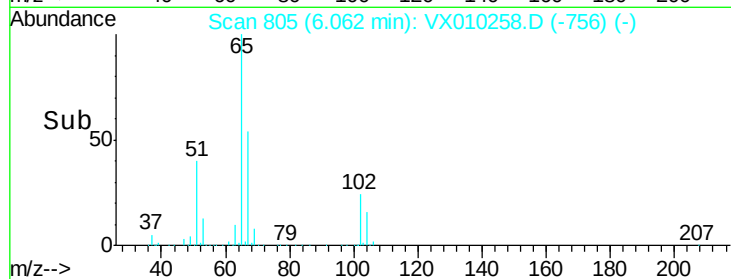
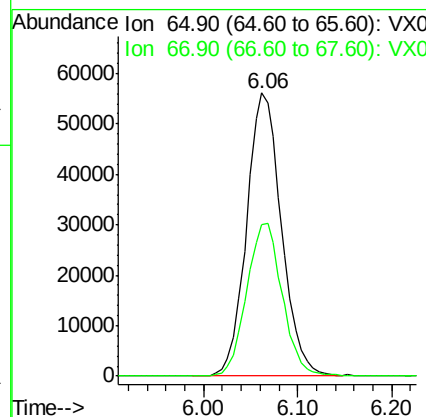
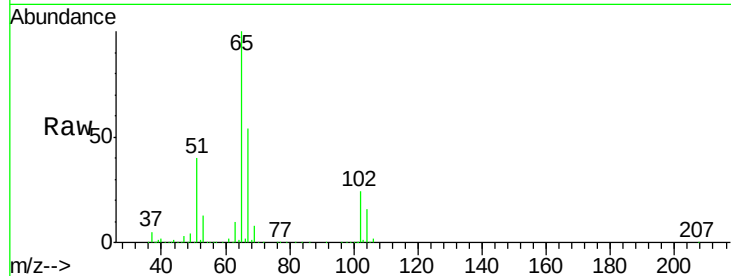




#33
 1,2-Dichloroethane-d4
 Concen: 46.143 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

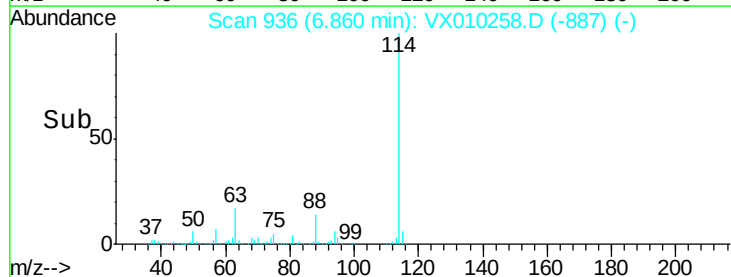
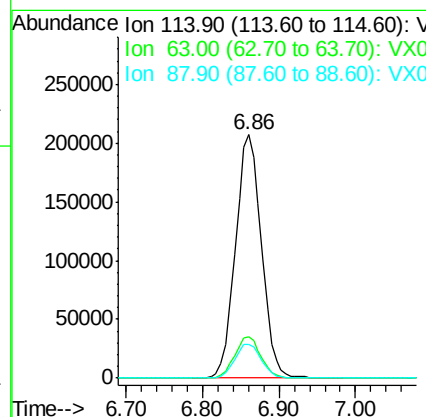
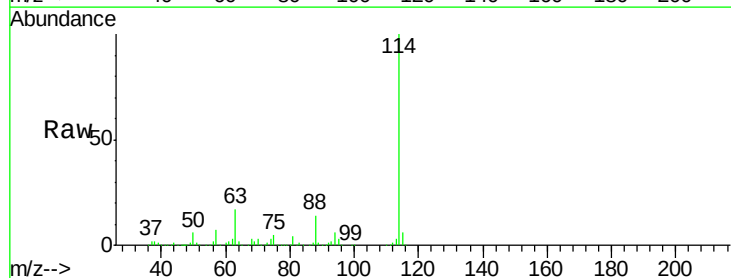
Instrument :
 MSVOA_X
 ClientSampleId :
 KY032MW006-190610

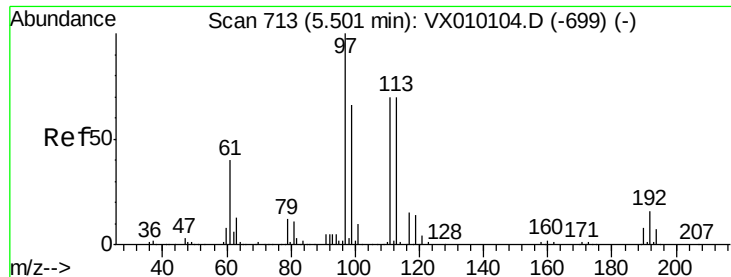
Tot Ion: 65 Resp: 145573
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

Tgt Ion: 114 Resp: 485599
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 47.4
 88 14.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.445 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

KY032MW006-190610

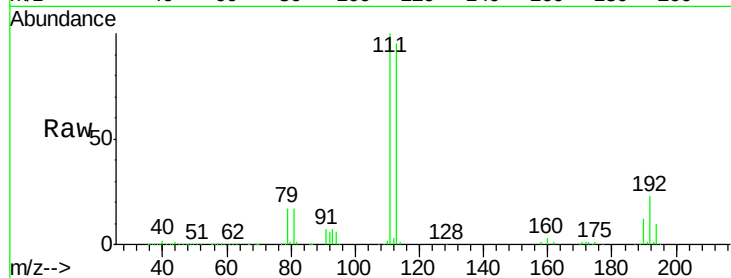
Tot Ion:113 Resp: 148103

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

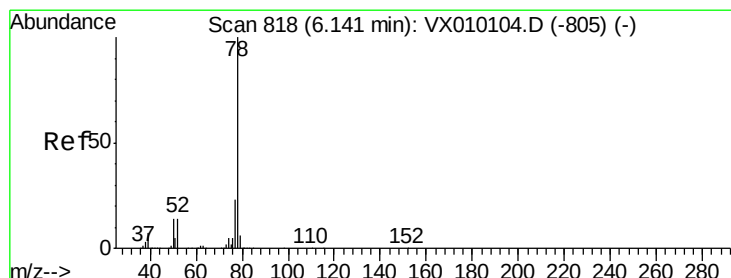
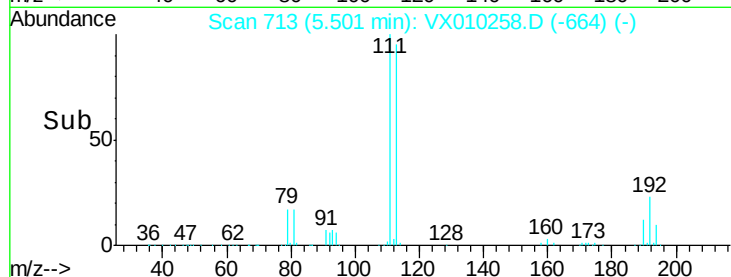
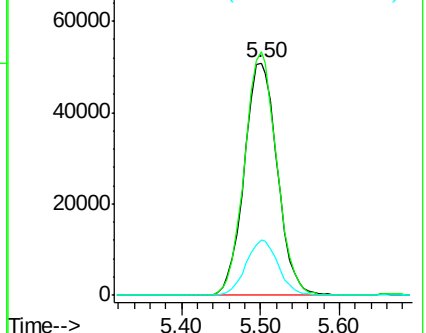
192 23.2 17.1 25.7



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



#40

Benzene

Concen: 0.311 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX010258.D

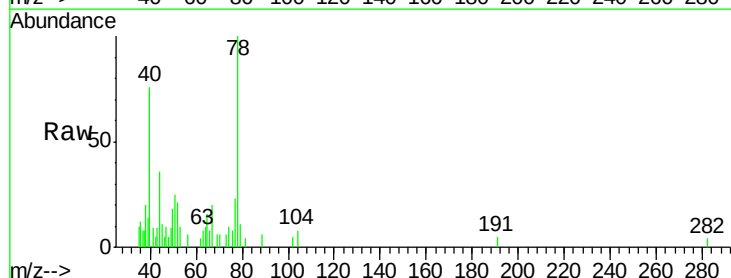
Acq: 12 Jun 2019 18:08

Tgt Ion: 78 Resp: 3807

Ion Ratio Lower Upper

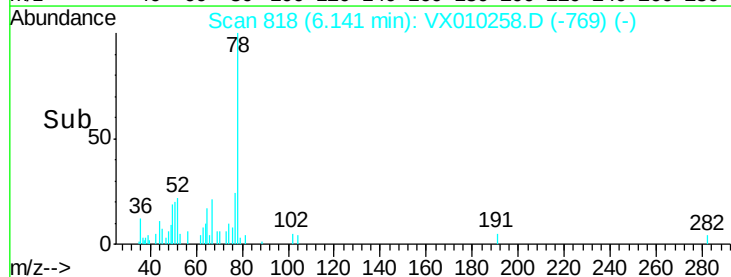
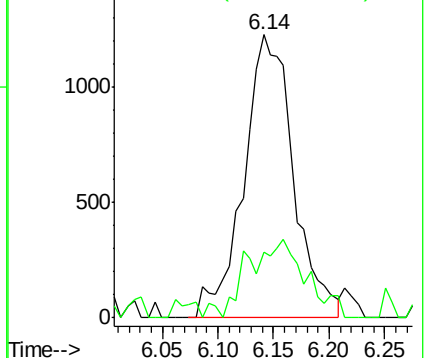
78 100

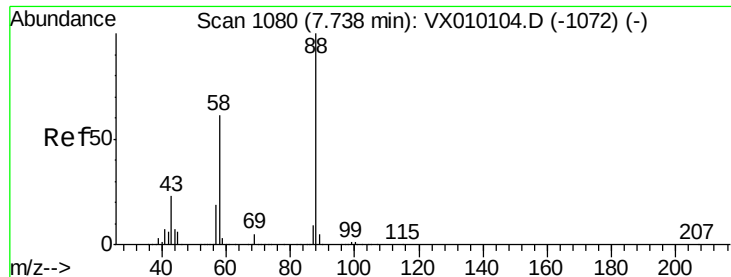
77 18.9 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 334.424 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

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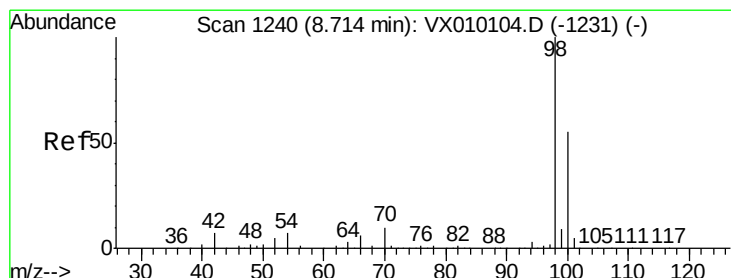
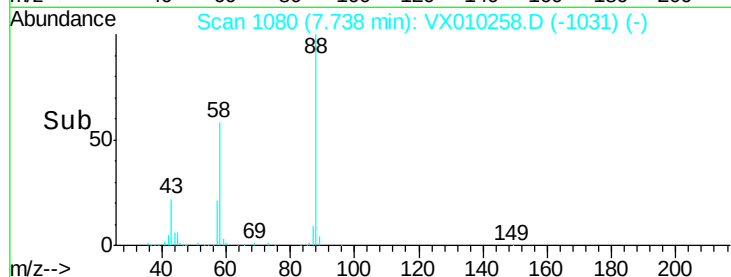
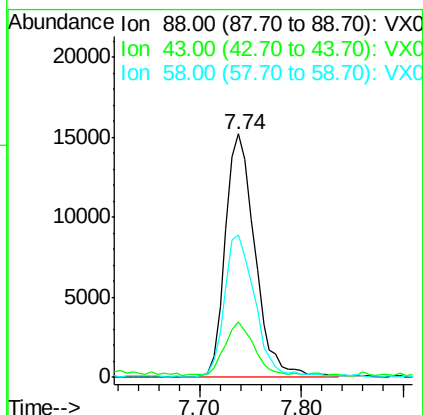
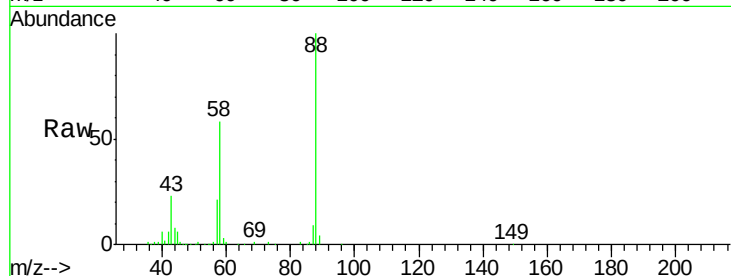
Tot Ion: 88 Resp: 30733

Ion Ratio Lower Upper

88 100

43 20.9 30.2 45.4#

58 59.9 64.0 96.0#



#50

Toluene-d8

Concen: 51.095 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010258.D

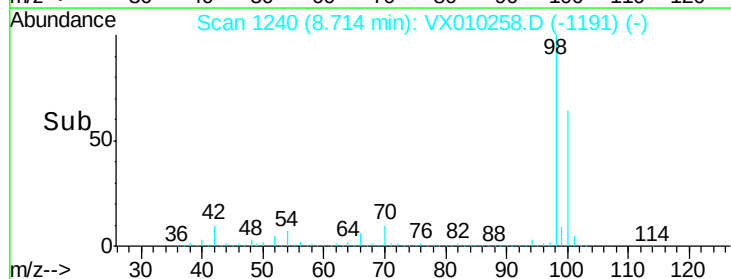
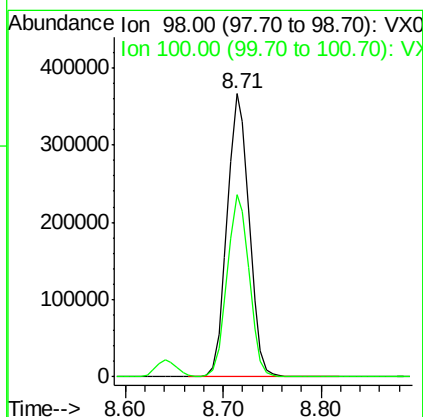
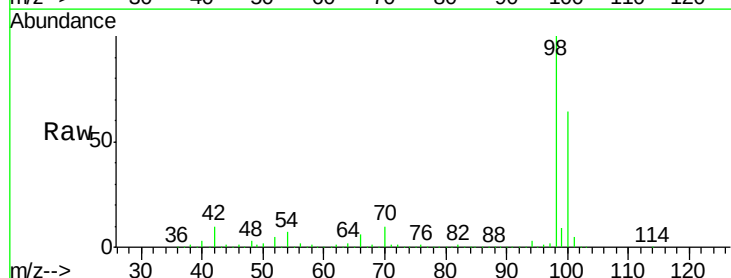
Acq: 12 Jun 2019 18:08

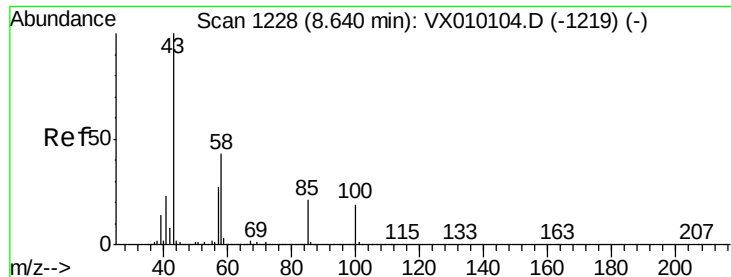
Tgt Ion: 98 Resp: 573588

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3

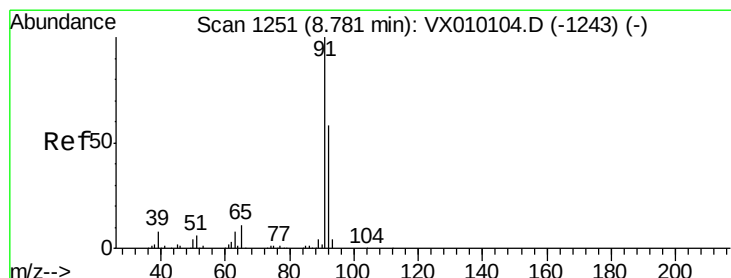
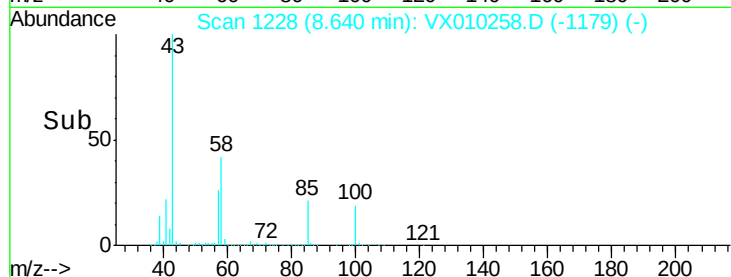
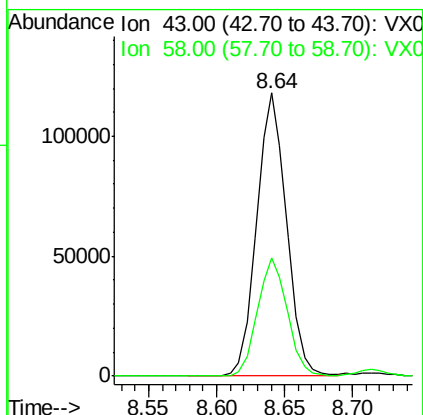
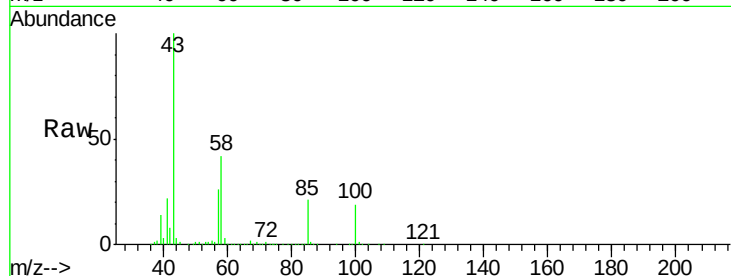




#51
 4-Methyl-2-Pentanone
 Concen: 44.044 ug/l
 RT: 8.64 min Scan# 1228
 Delta R.T. 0.00 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

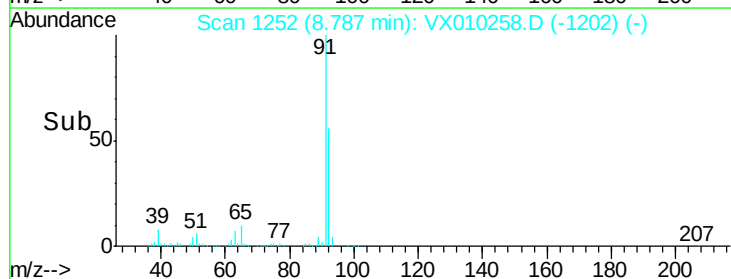
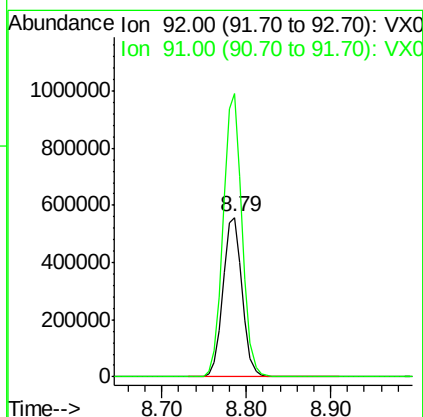
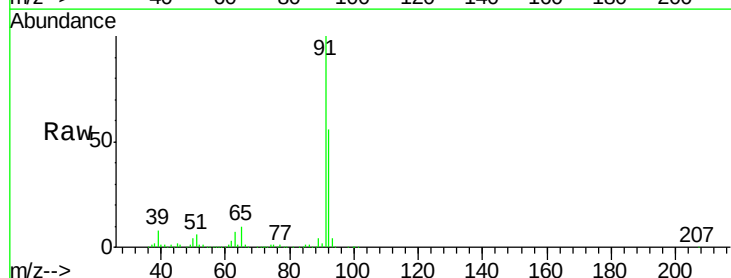
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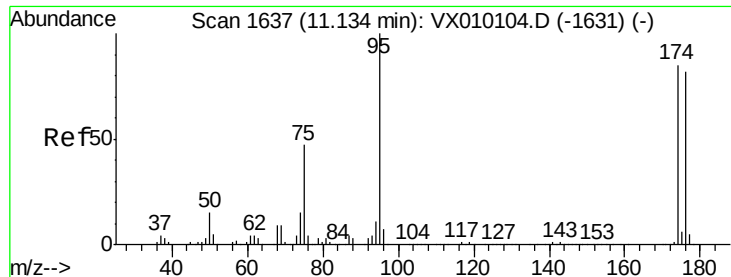
Tot Ion: 43 Resp: 181345
 Ion Ratio Lower Upper
 43 100
 58 41.9 28.8 43.2



#52
 Toluene
 Concen: 108.702 ug/l
 RT: 8.79 min Scan# 1252
 Delta R.T. 0.01 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

Tgt Ion: 92 Resp: 875358
 Ion Ratio Lower Upper
 92 100
 91 174.8 139.9 209.9





#62

4-Bromofluorobenzene

Concen: 46.521 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

KY032MW006-190610

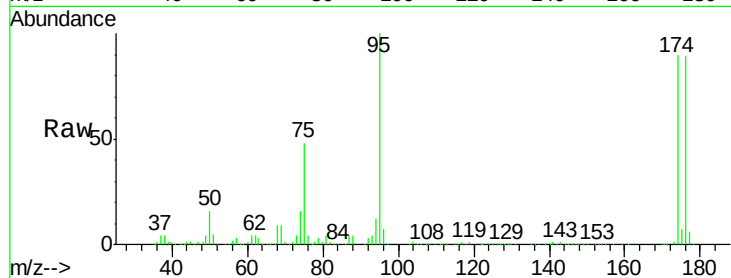
Tot Ion: 95 Resp: 195034

Ion Ratio Lower Upper

95 100

174 94.5 0.0 160.4

176 91.9 0.0 154.6

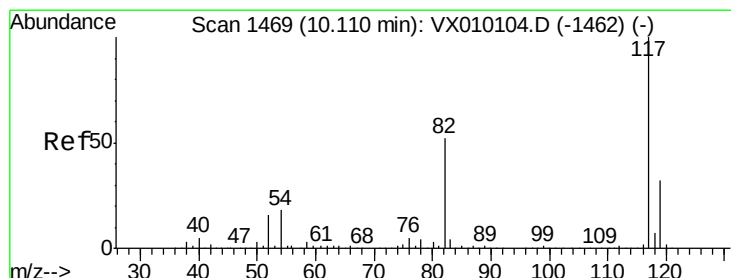
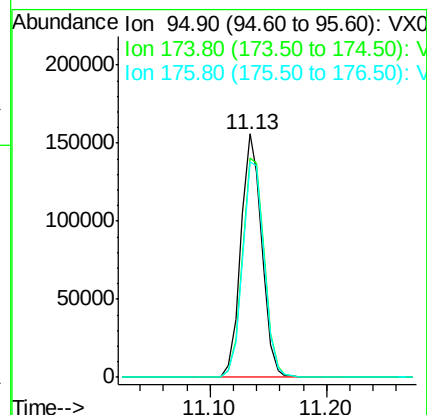
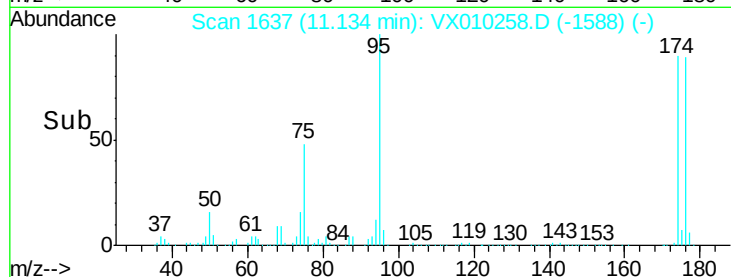


Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

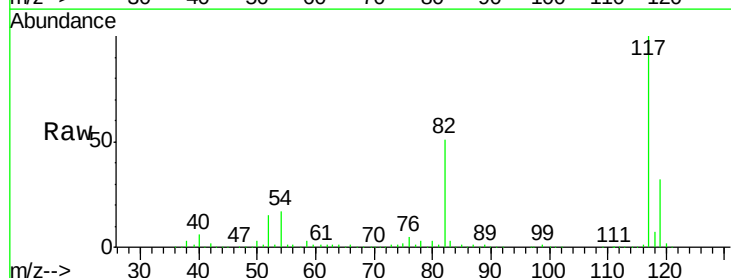
Tgt Ion: 117 Resp: 442428

Ion Ratio Lower Upper

117 100

82 50.6 49.2 73.8

119 31.7 25.2 37.8

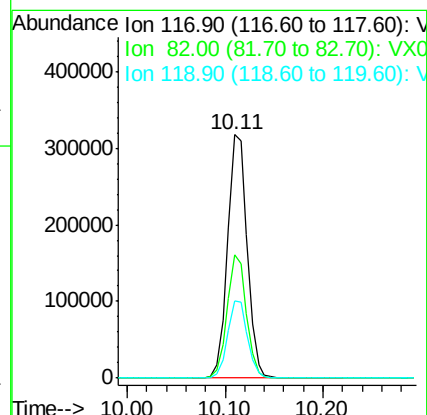
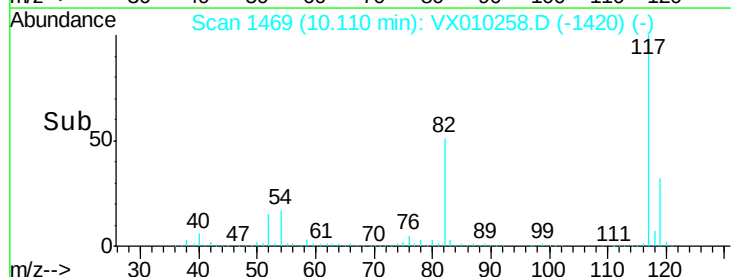


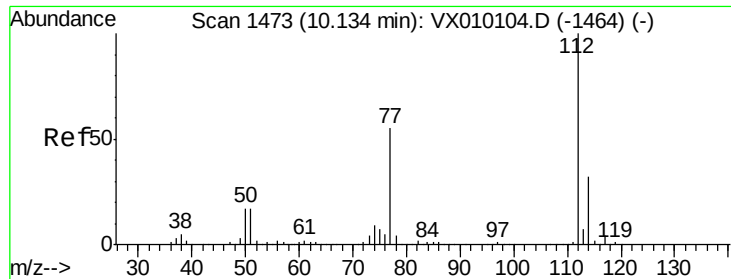
Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

Time-->

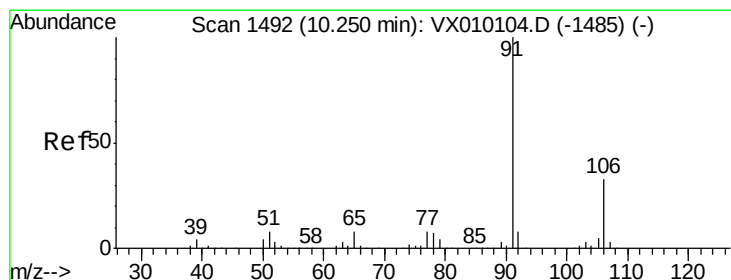
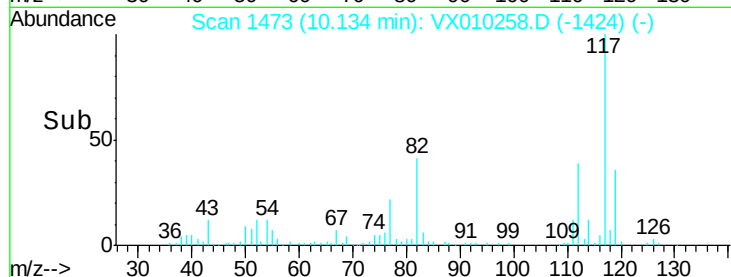
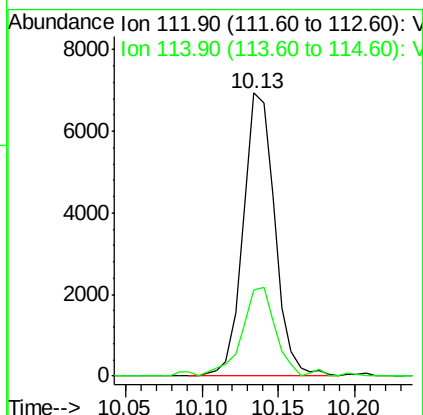
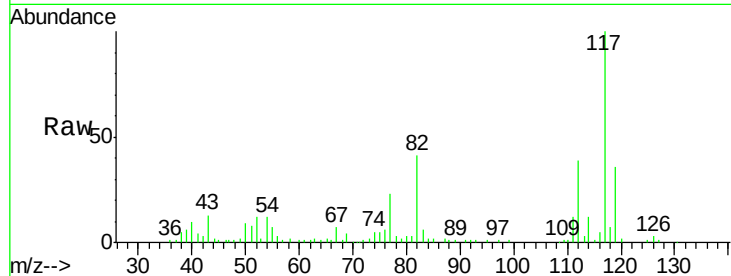




#65
Chlorobenzene
Concen: 1.090 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010258.D
Acq: 12 Jun 2019 18:08

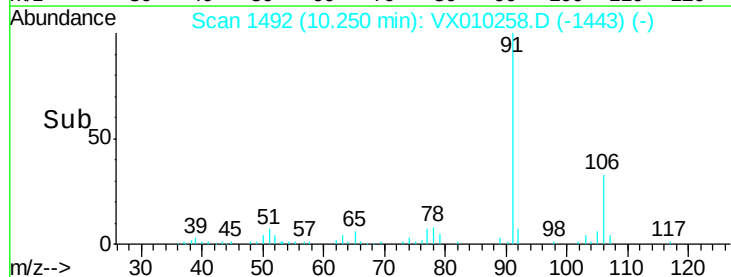
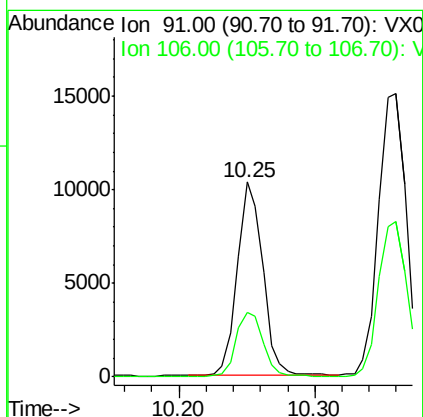
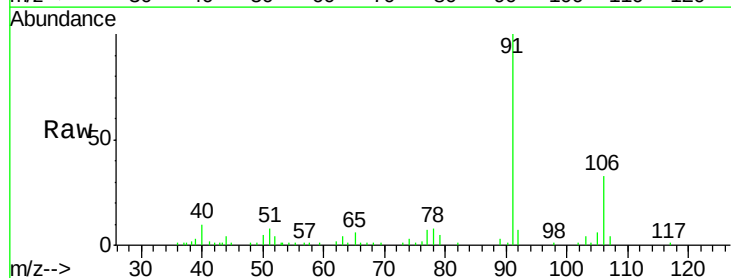
Instrument :
MSVOA_X
ClientSampleId :
KY032MW006-190610

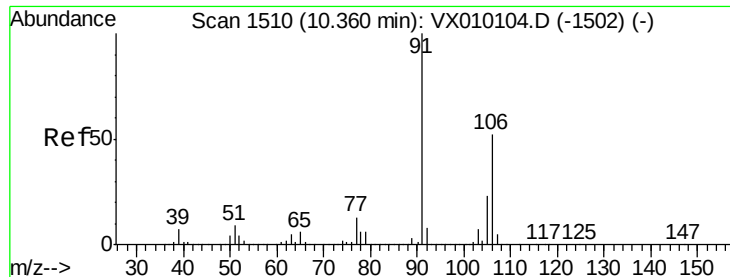
Tot Ion:112 Resp: 9954
Ion Ratio Lower Upper
112 100
114 30.4 25.8 38.8



#67
Ethyl Benzene
Concen: 0.875 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX010258.D
Acq: 12 Jun 2019 18:08

Tgt Ion: 91 Resp: 13606
Ion Ratio Lower Upper
91 100
106 33.5 23.9 35.9

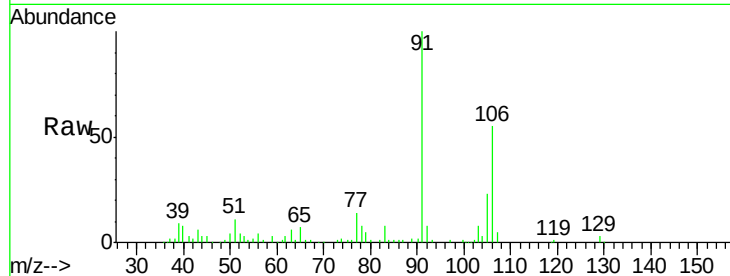




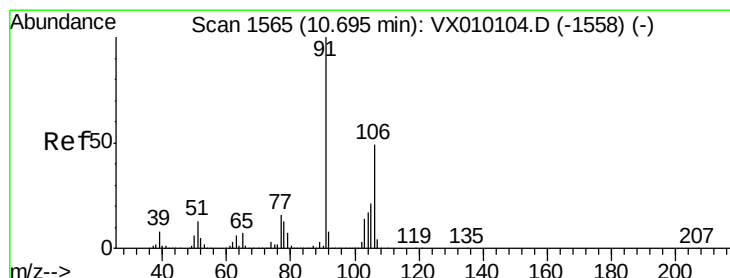
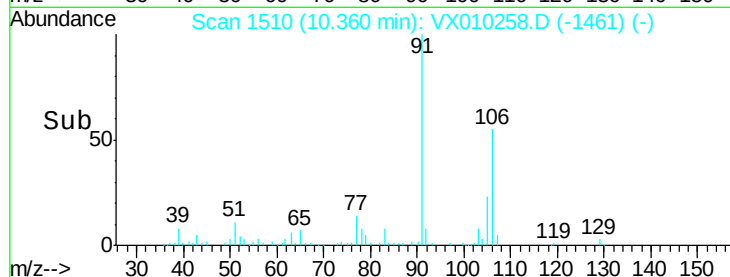
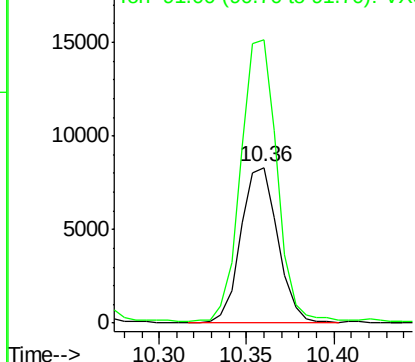
#68
m/p-Xylenes
Concen: 2.030 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010258.D
Acq: 12 Jun 2019 18:08

Instrument :
MSVOA_X
ClientSampleId :
KY032MW006-190610

Tot Ion:106 Resp: 12211
Ion Ratio Lower Upper
106 100
91 176.4 167.3 250.9

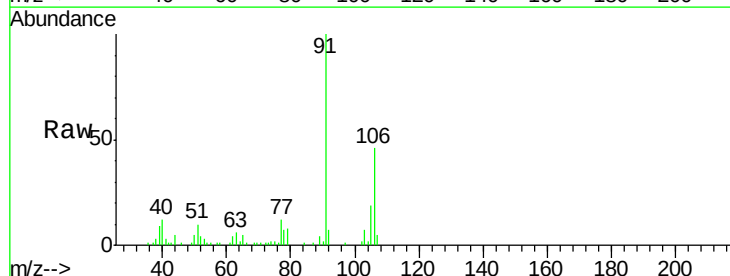


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

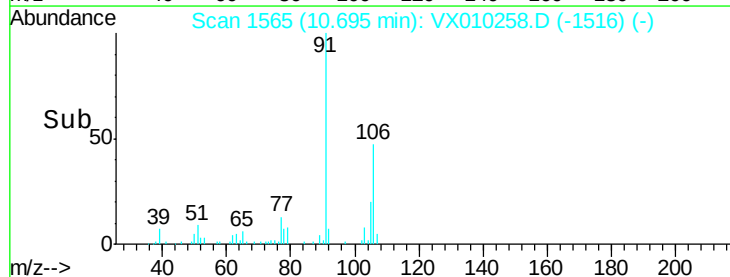
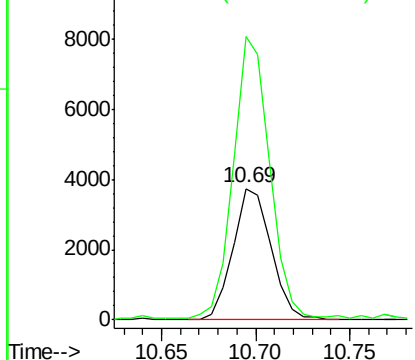


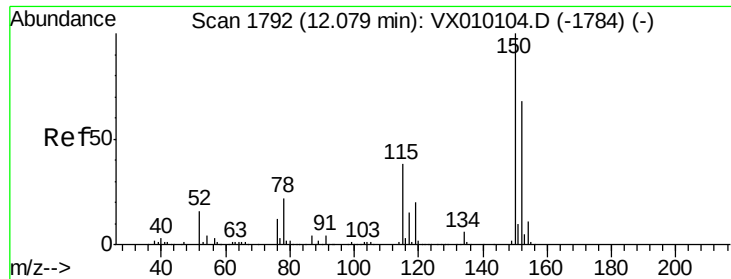
#69
o-Xylene
Concen: 0.878 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX010258.D
Acq: 12 Jun 2019 18:08

Tgt Ion:106 Resp: 5248
Ion Ratio Lower Upper
106 100
91 201.0 110.4 331.2



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: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

KY032MW006-190610

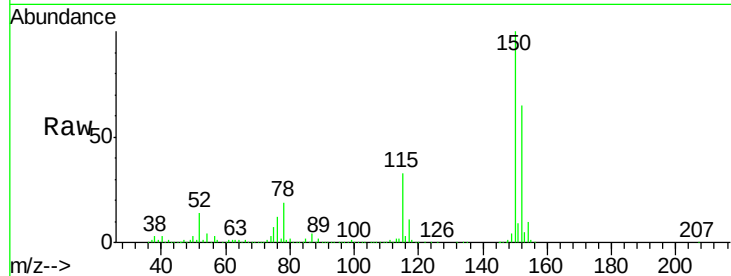
Tot Ion:152 Resp: 212528

Ion Ratio Lower Upper

152 100

115 54.2 41.4 124.2

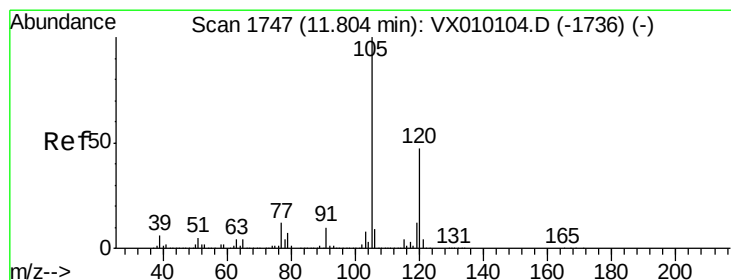
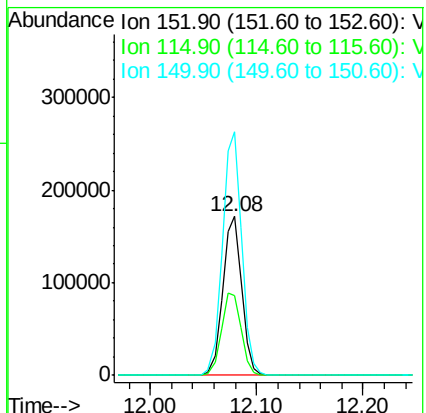
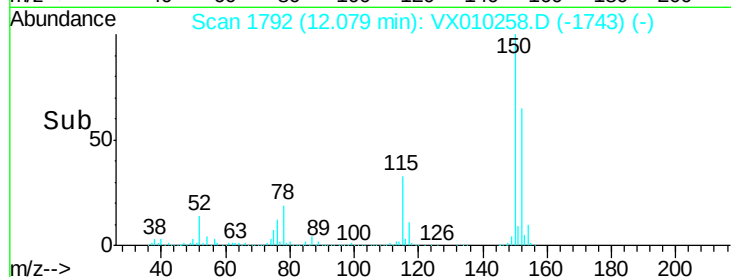
150 155.7 0.0 345.2



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



#84

1,2,4-Trimethylbenzene

Concen: 0.284 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010258.D

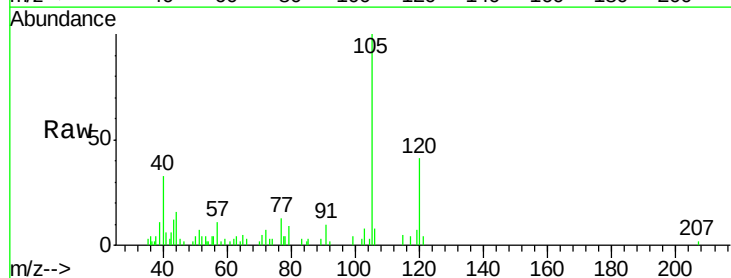
Acq: 12 Jun 2019 18:08

Tgt Ion:105 Resp: 3588

Ion Ratio Lower Upper

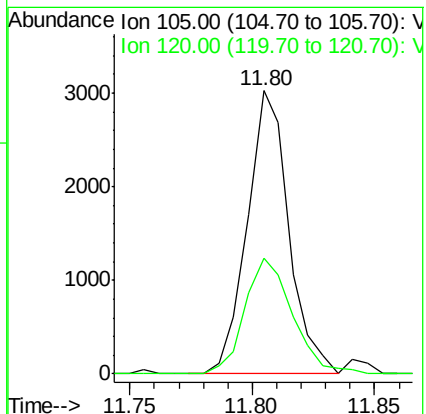
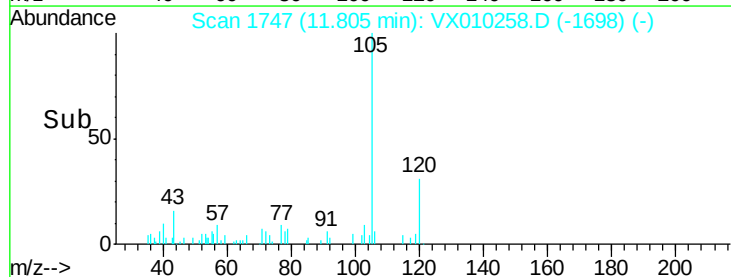
105 100

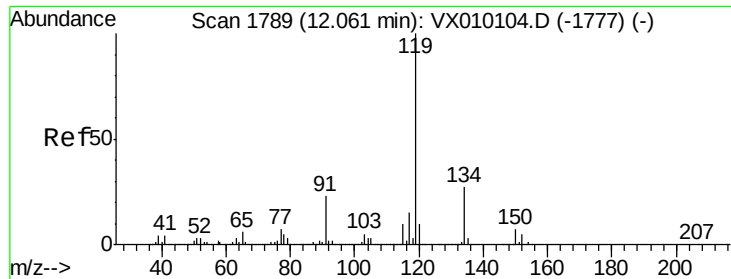
120 46.8 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

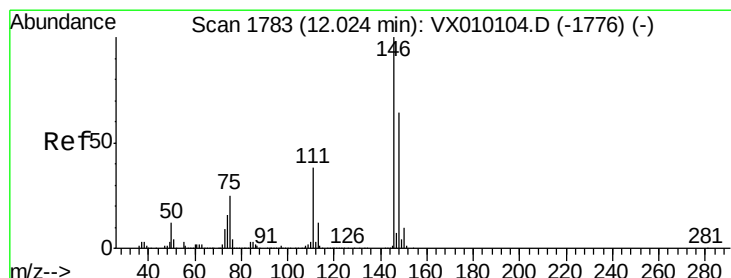
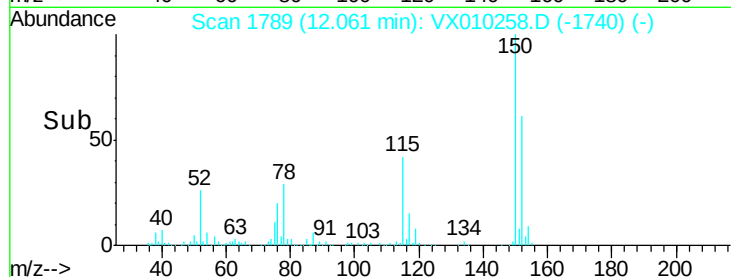
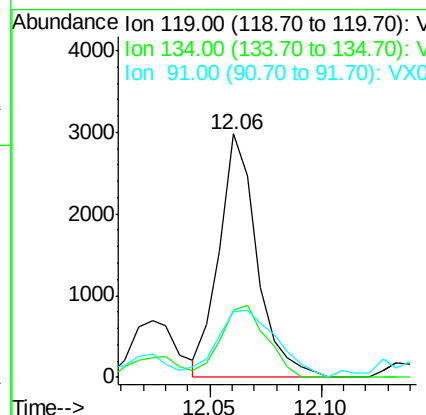
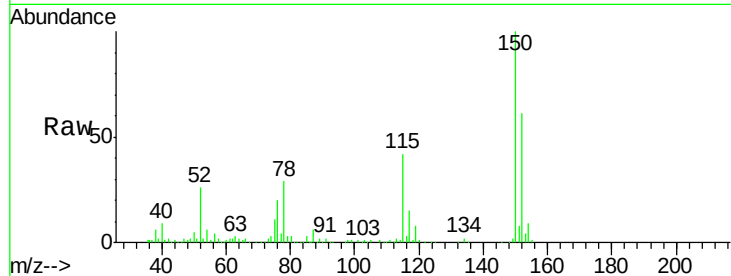




#86
 p-Isopropyltoluene
 Concen: 0.261 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

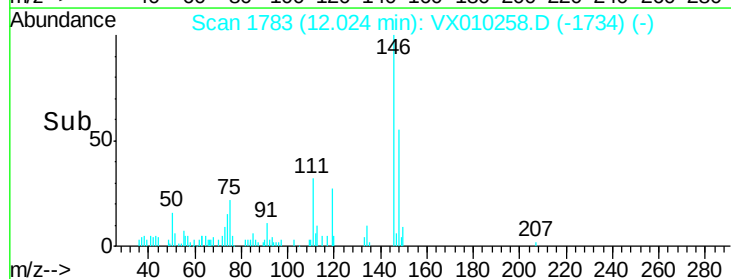
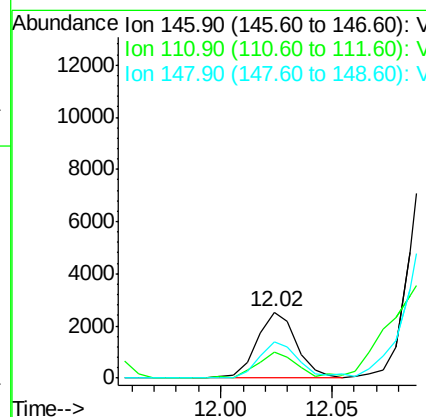
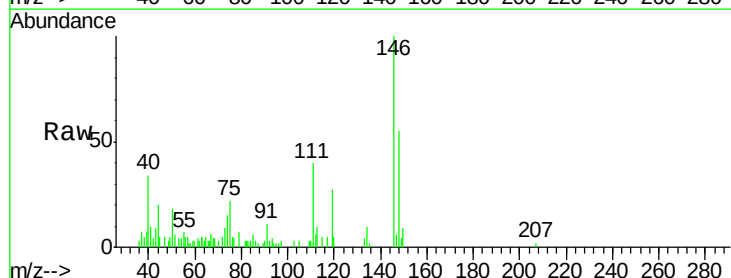
Instrument :
 MSVOA_X
 ClientSampleId :
 KY032MW006-190610

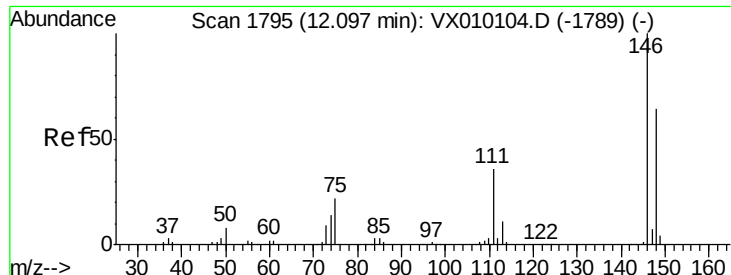
Tot Ion	Ratio	Lower	Upper
119	100		
134	35.7	12.9	38.6
91	43.7	11.9	35.9



#87
 1,3-Dichlorobenzene
 Concen: 0.436 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX010258.D
 Acq: 12 Jun 2019 18:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.1	60.2
148	53.4	31.9	95.5





#88

1,4-Dichlorobenzene

Concen: 1.921 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

KY032MW006-190610

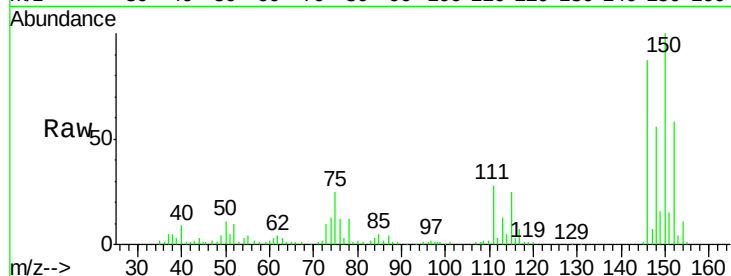
Tot Ion:146 Resp: 13914

Ion Ratio Lower Upper

146 100

111 50.8 20.0 59.9

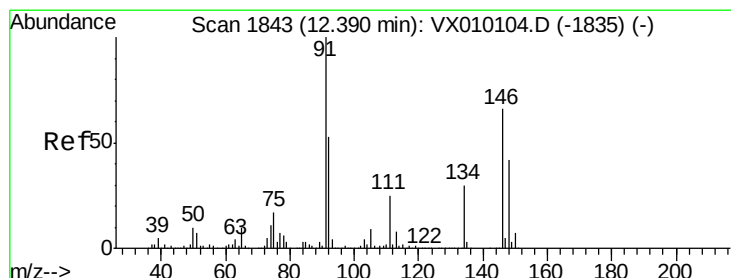
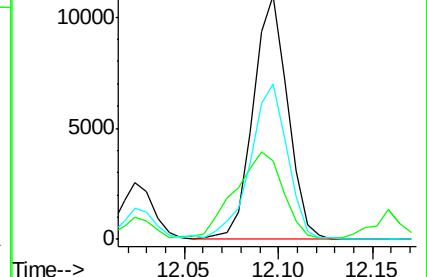
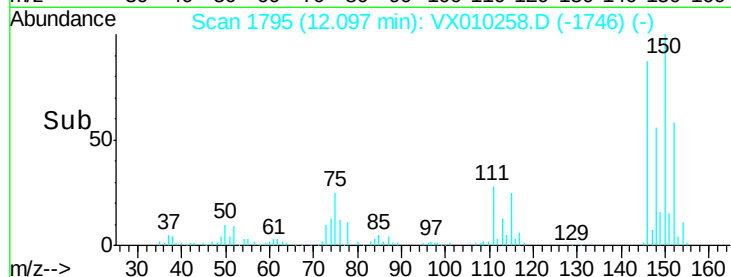
148 69.3 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 9.616 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

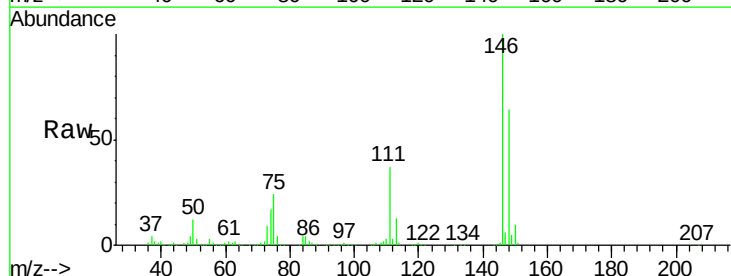
Tgt Ion:146 Resp: 67177

Ion Ratio Lower Upper

146 100

111 37.2 21.1 63.1

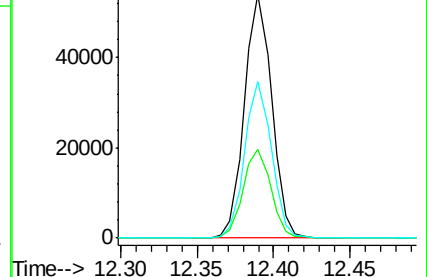
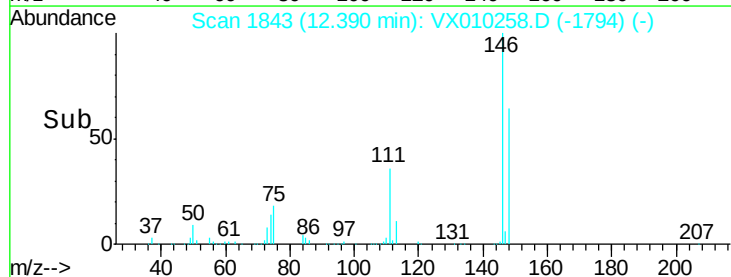
148 63.1 32.3 96.8

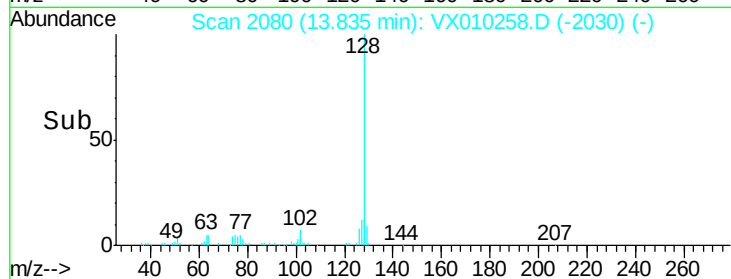
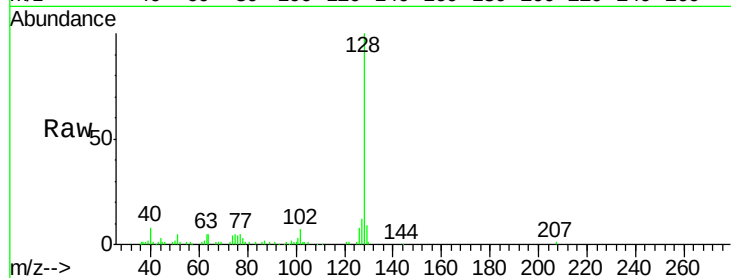
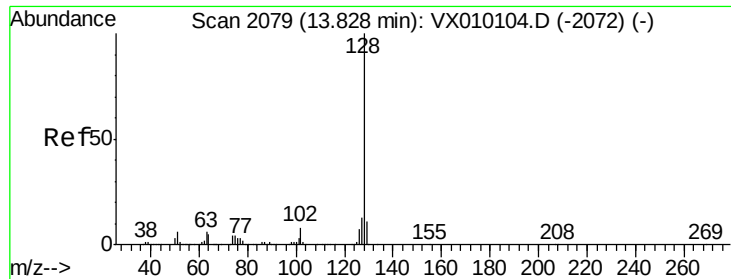


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 1.161 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX010258.D

Acq: 12 Jun 2019 18:08

Instrument :

MSVOA_X

ClientSampleId :

KY032MW006-190610

Tot Ion:128 Resp: 18692

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

129 11.3 8.8 13.2

