

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070119\
 Data File : VX010593.D
 Acq On : 01 Jul 2019 16:08
 Operator : JC/SP
 Sample : K3521-42
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW-12I

Quant Time: Jul 02 10:57:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	257635	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	397804	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	360055	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169286	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	123279	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
35) Dibromofluoromethane	5.50	113	119703	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
50) Toluene-d8	8.71	98	463667	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.13	95	159813	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	

Target Compounds

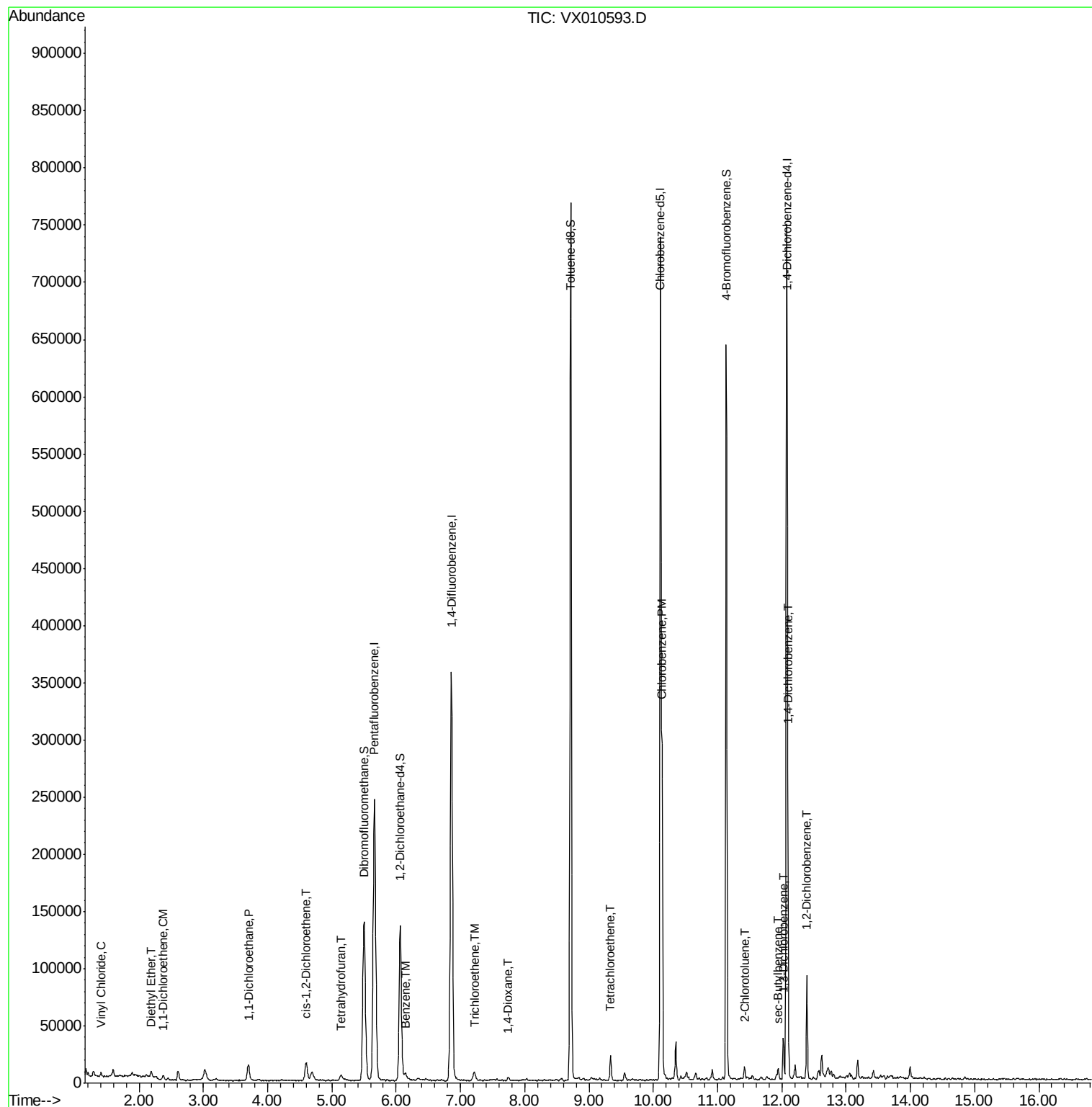
						Qvalue
4) Vinyl Chloride	1.41	62	2670	1.169	ug/l	90
8) Diethyl Ether	2.19	74	1480	1.140	ug/l	94
12) 1,1-Dichloroethene	2.37	96	1640	0.734	ug/l	90
24) 1,1-Dichloroethane	3.70	63	15122	3.947	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	11350	4.089	ug/l	90
29) Tetrahydrofuran	5.14	42	5257	4.779	ug/l	95
40) Benzene	6.14	78	7239	0.735	ug/l	100
44) Trichloroethene	7.21	130	3119	1.058	ug/l	78
49) 1,4-Dioxane	7.74	88	2878	39.947	ug/l	98
64) Tetrachloroethene	9.34	164	4372	1.501	ug/l	92
65) Chlorobenzene	10.14	112	125191	17.126	ug/l	96
79) 2-Chlorotoluene	11.42	91	5283	0.703	ug/l	96
85) sec-Butylbenzene	11.94	105	3565	0.320	ug/l #	67
87) 1,3-Dichlorobenzene	12.02	146	12059	2.156	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	47649	8.368	ug/l	96
91) 1,2-Dichlorobenzene	12.39	146	29475	5.302	ug/l	99

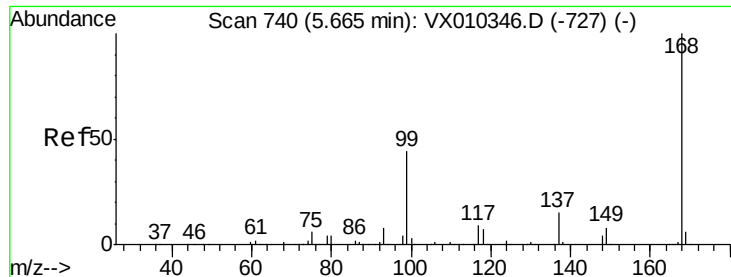
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

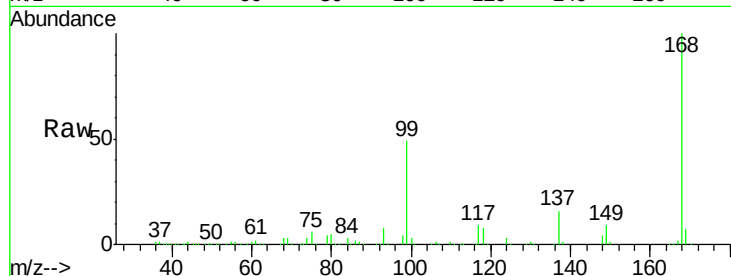
RW-12I

Tot Ion:168 Resp: 257635

Ion Ratio Lower Upper

168 100

99 49.1 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

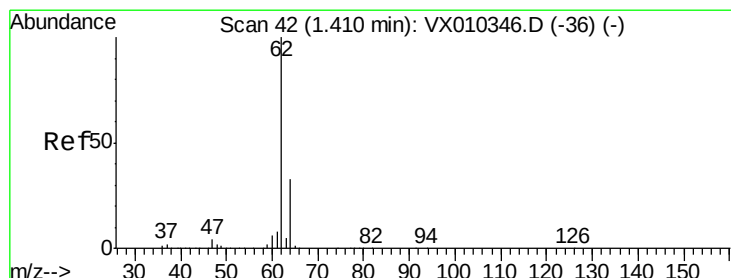
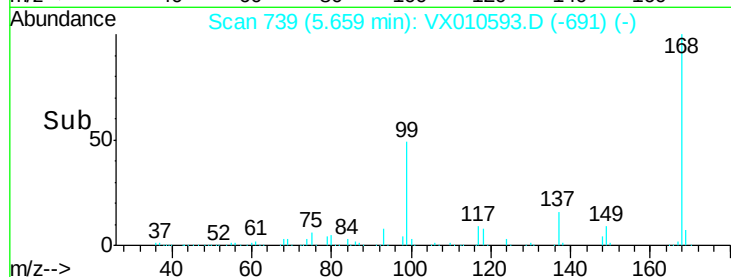
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.169 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010593.D

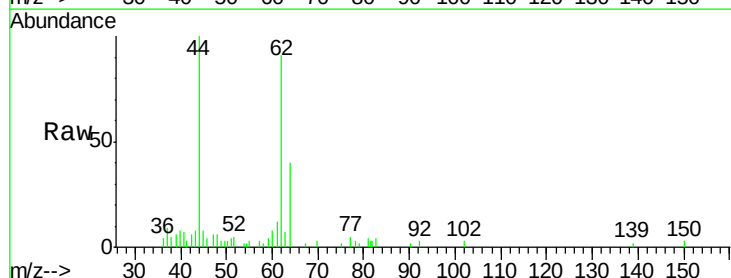
Acq: 01 Jul 2019 16:08

Tgt Ion: 62 Resp: 2670

Ion Ratio Lower Upper

62 100

64 38.2 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2500

2000

1500

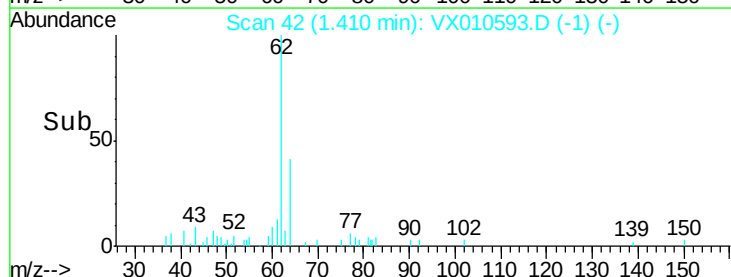
1000

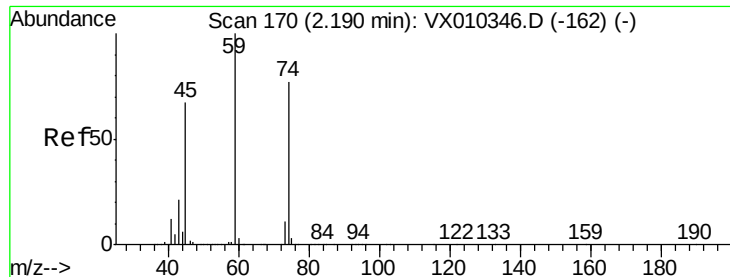
500

0

Time-->

1.35 1.40 1.45





#8

Diethyl Ether

Concen: 1.140 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

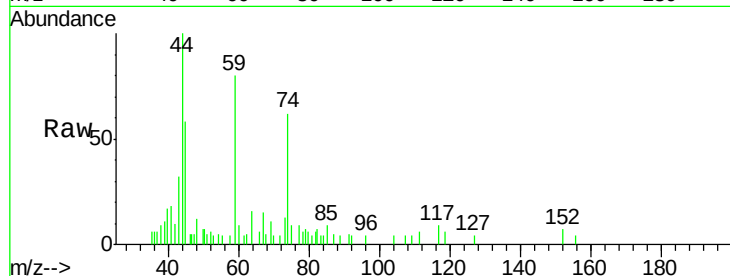
RW-12I

Tot Ion: 74 Resp: 1480

Ion Ratio Lower Upper

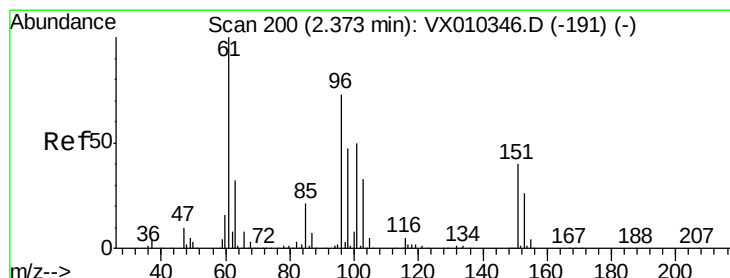
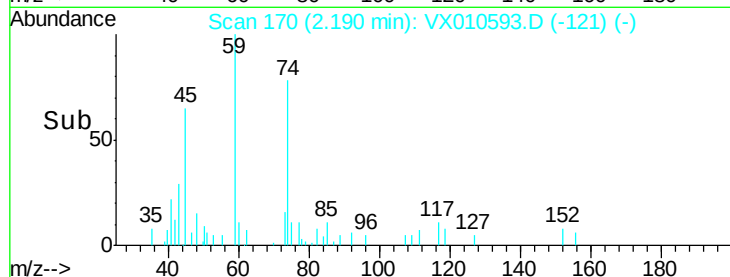
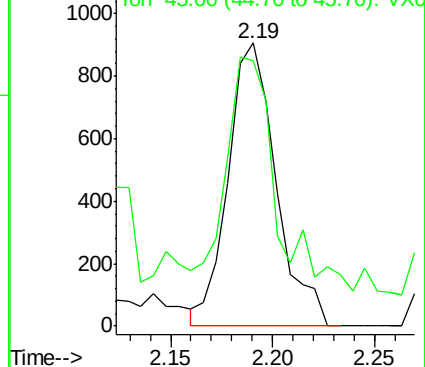
74 100

45 84.3 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#12

1,1-Dichloroethene

Concen: 0.734 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

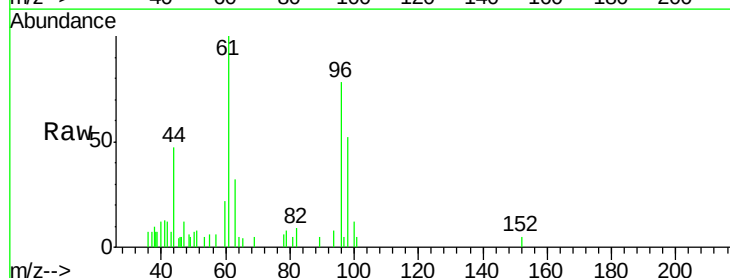
Tgt Ion: 96 Resp: 1640

Ion Ratio Lower Upper

96 100

61 119.8 109.2 163.8

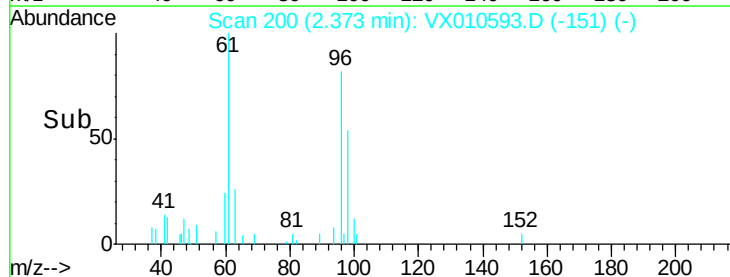
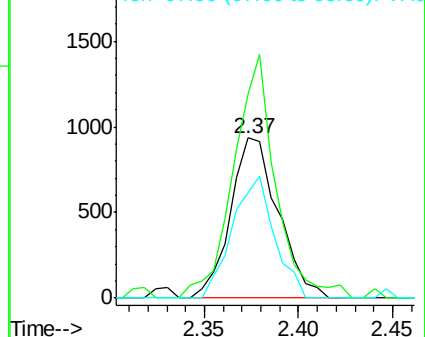
98 66.1 51.1 76.7

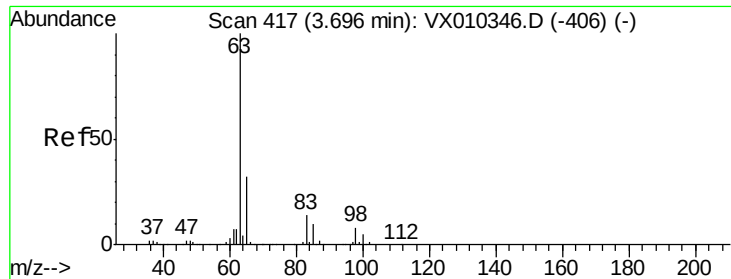


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 3.947 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

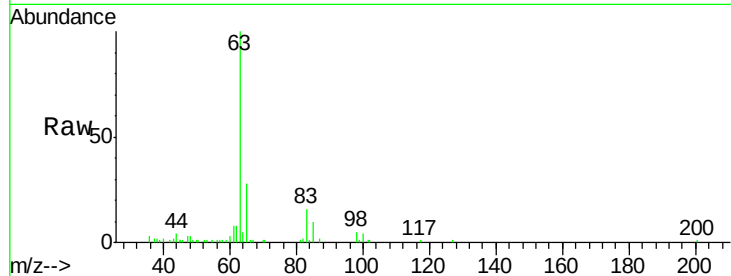
Tot Ion: 63 Resp: 15122

Ion Ratio Lower Upper

63 100

98 5.3 3.9 11.7

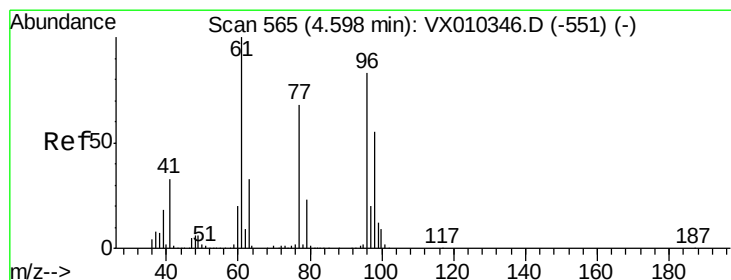
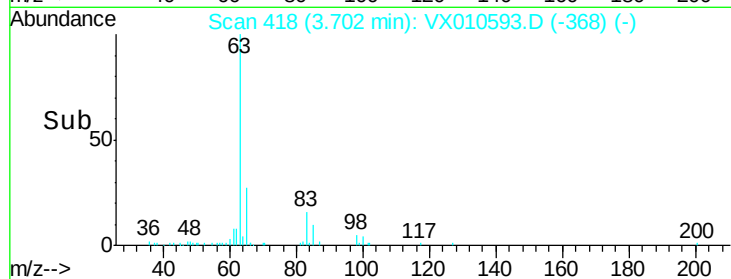
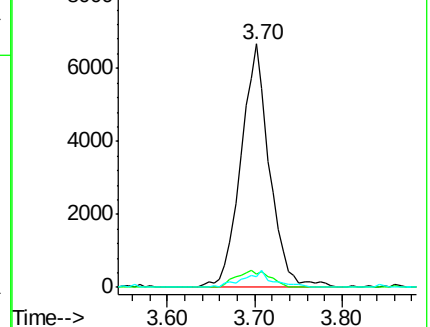
100 4.4 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 4.089 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

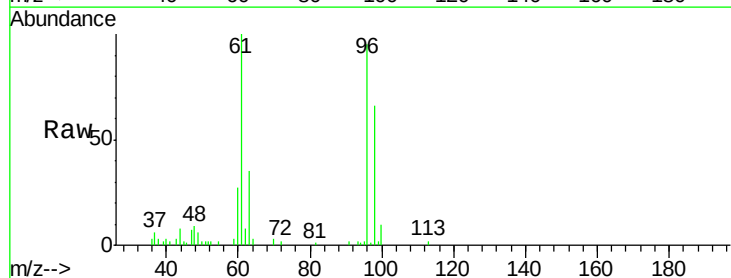
Tgt Ion: 96 Resp: 11350

Ion Ratio Lower Upper

96 100

61 109.9 0.0 251.8

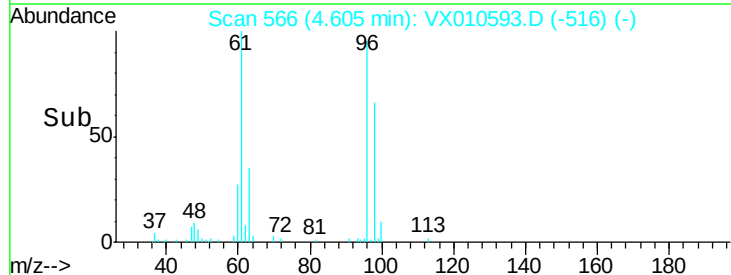
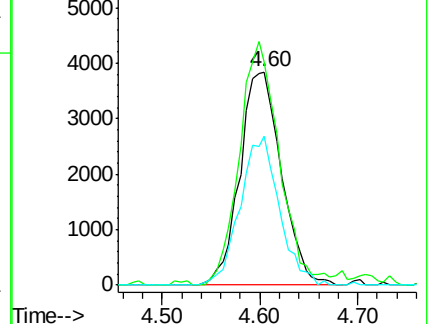
98 65.7 0.0 129.4

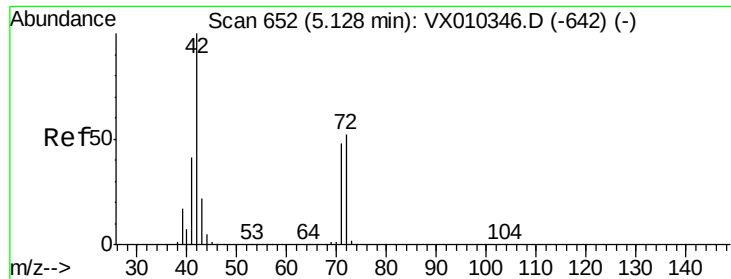


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 4.779 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

RW-12I

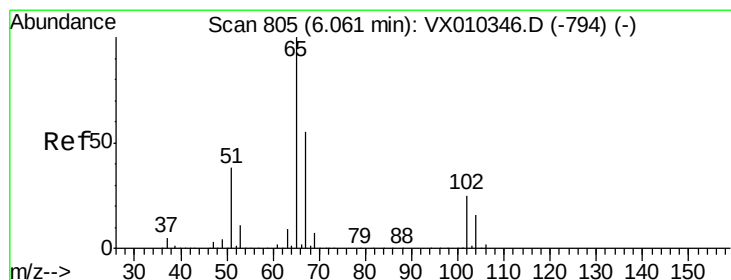
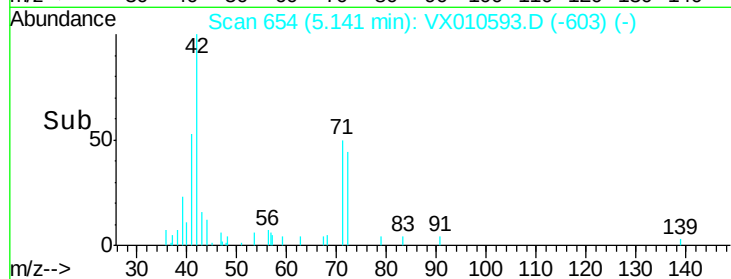
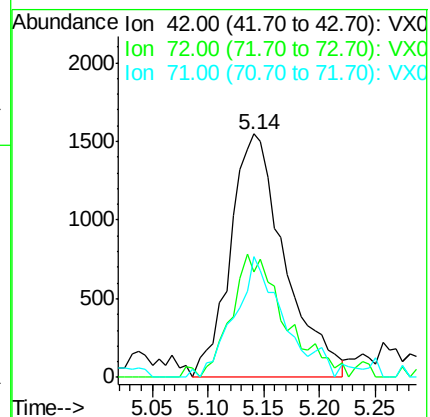
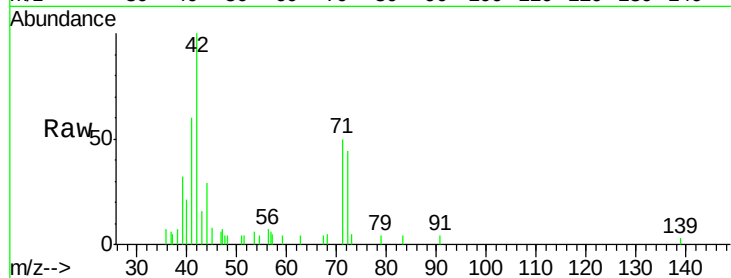
Tot Ion: 42 Resp: 5257

Ion Ratio Lower Upper

42 100

72 49.5 40.6 60.8

71 41.6 37.8 56.8



#33

1,2-Dichloroethane-d4

Concen: 51.035 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010593.D

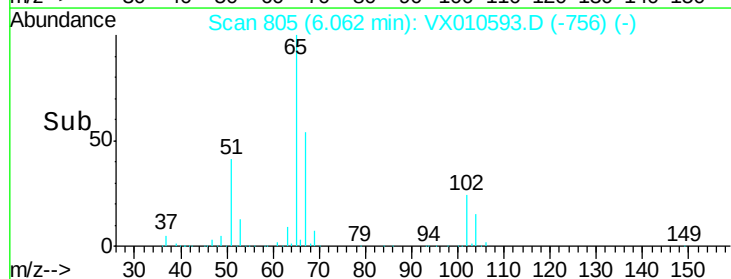
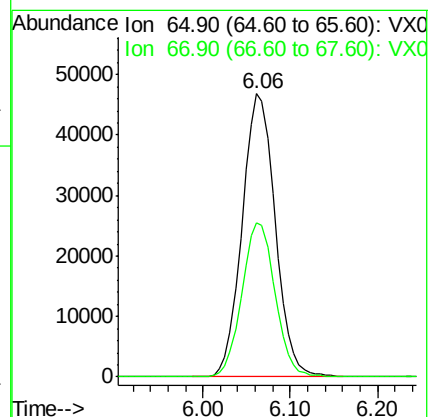
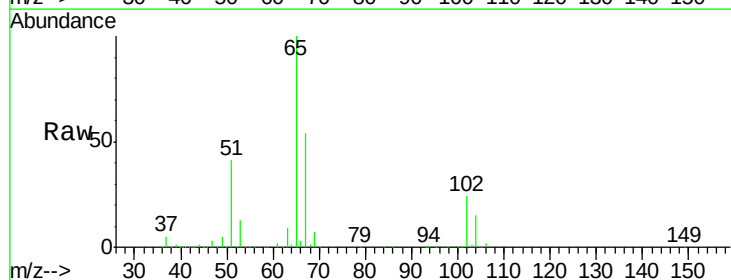
Acq: 01 Jul 2019 16:08

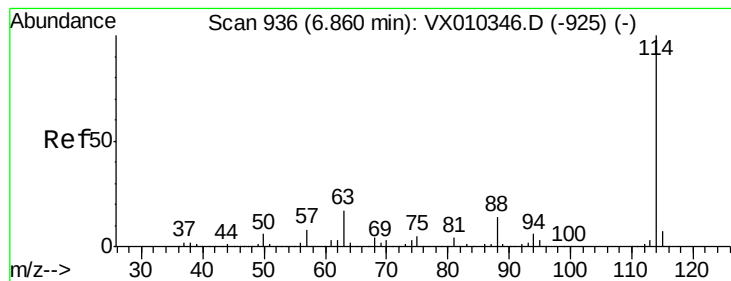
Tgt Ion: 65 Resp: 123279

Ion Ratio Lower Upper

65 100

67 54.5 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

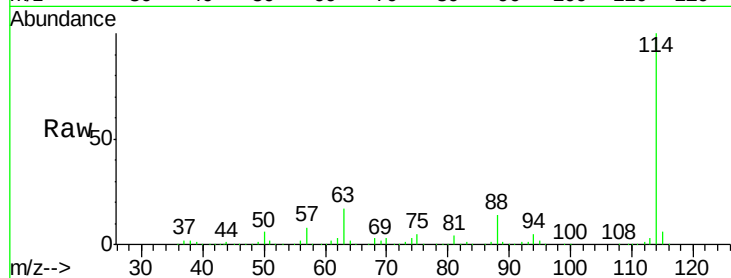
Tot Ion:114 Resp: 397804

Ion Ratio Lower Upper

114 100

63 16.9 0.0 33.8

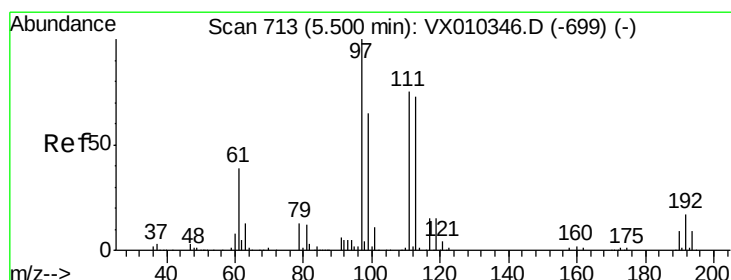
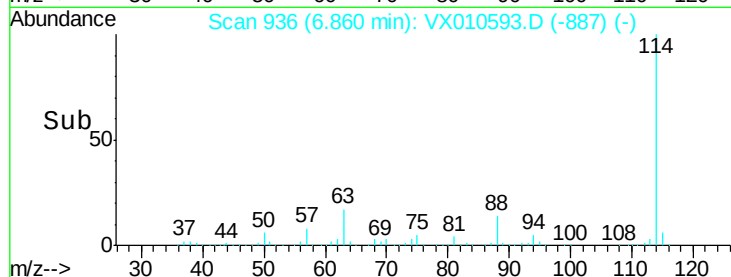
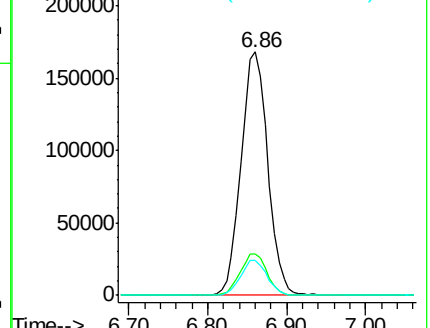
88 14.3 0.0 27.6



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: 49.181 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

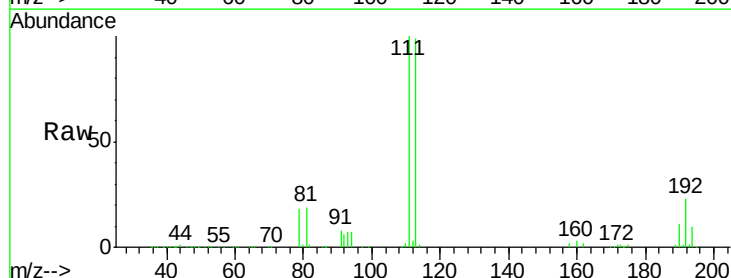
Tgt Ion:113 Resp: 119703

Ion Ratio Lower Upper

113 100

111 100.8 81.2 121.8

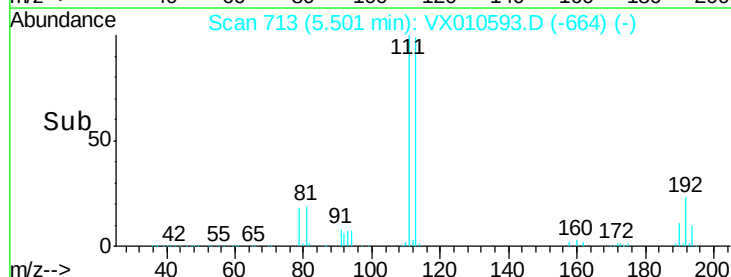
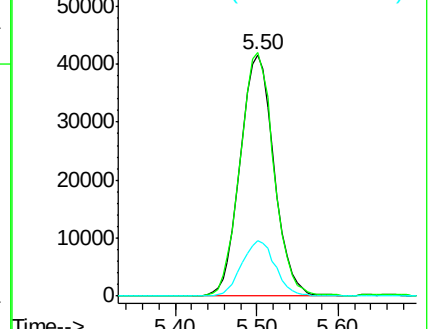
192 22.8 18.6 27.8

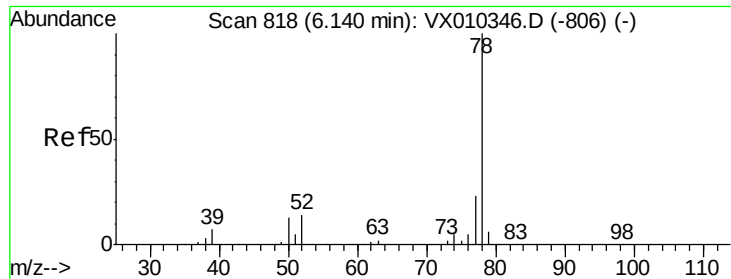


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 0.735 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

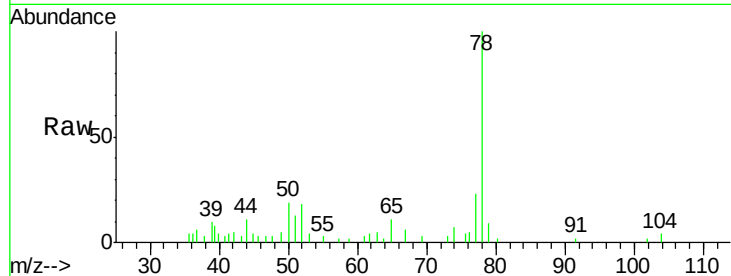
RW-12I

Tot Ion: 78 Resp: 7239

Ion Ratio Lower Upper

78 100

77 23.1 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

2500

2000

1500

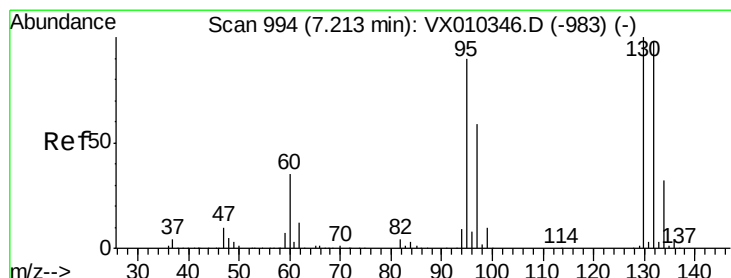
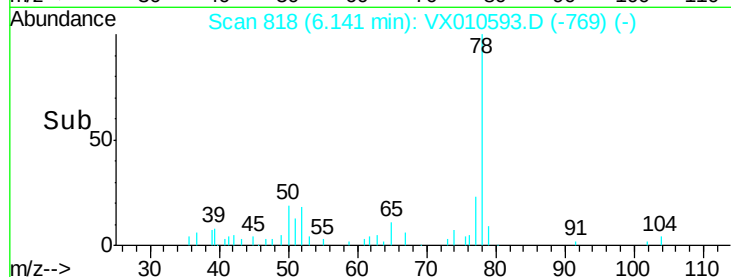
1000

500

0

Time-->

6.00 6.10 6.20 6.30



#44

Trichloroethene

Concen: 1.058 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010593.D

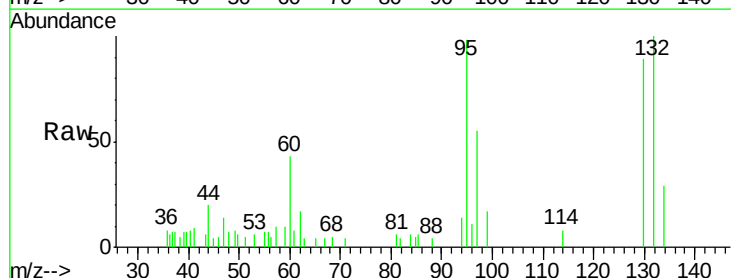
Acq: 01 Jul 2019 16:08

Tgt Ion:130 Resp: 3119

Ion Ratio Lower Upper

130 100

95 110.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

1500

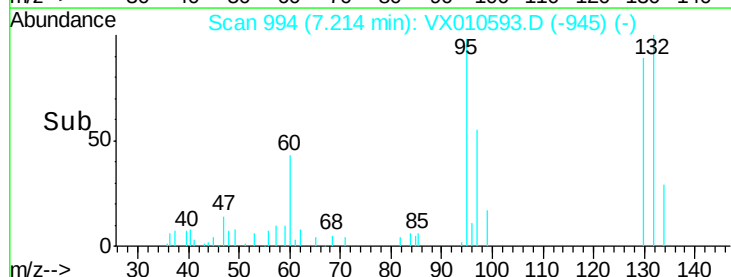
1000

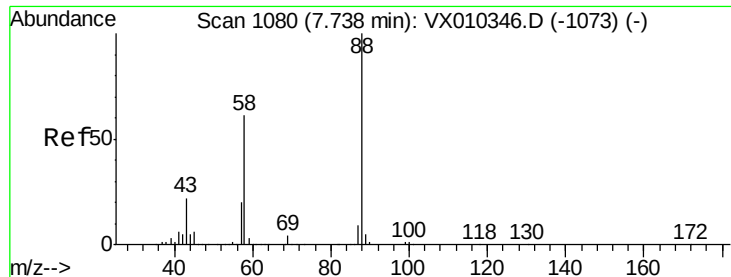
500

0

Time-->

7.15 7.20 7.25 7.30

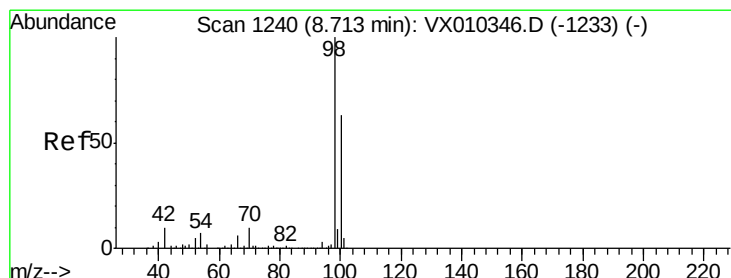
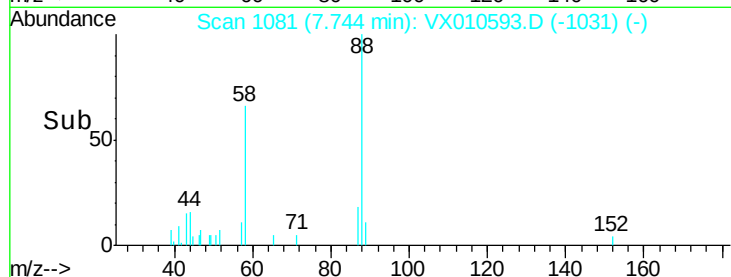
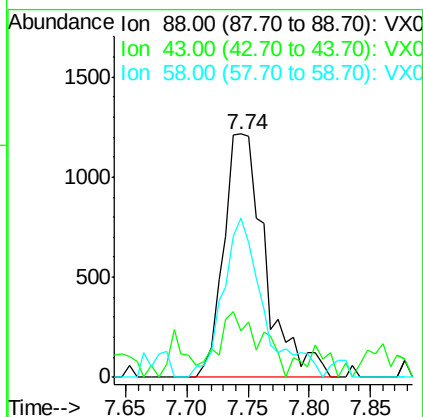
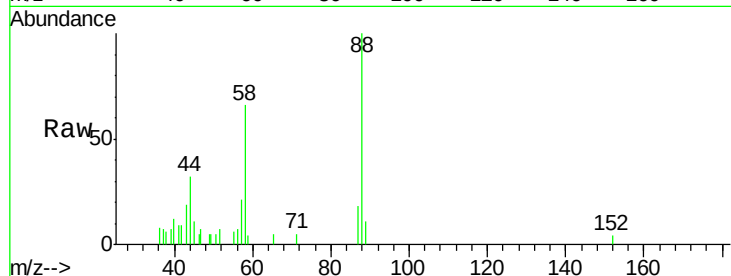




#49
1,4-Dioxane
Concen: 39.947 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010593.D
Acq: 01 Jul 2019 16:08

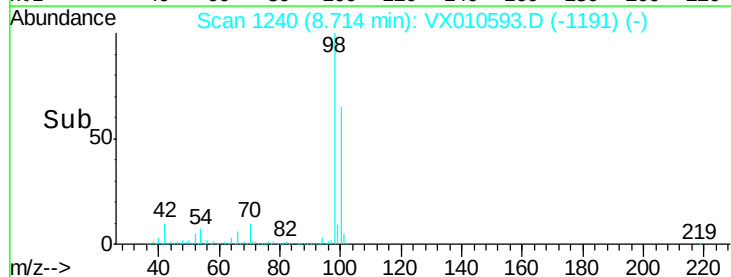
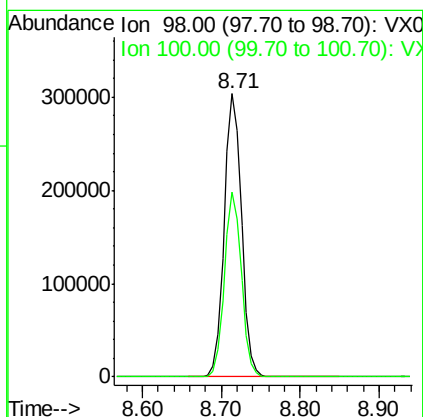
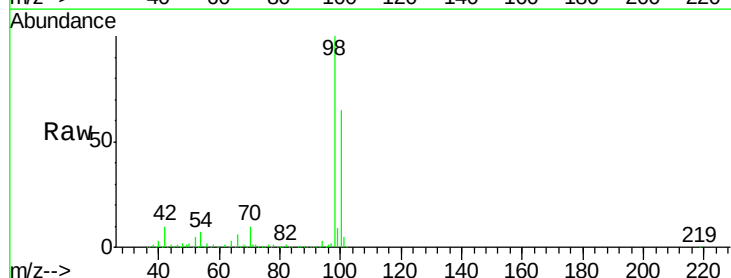
Instrument :
MSVOA_X
ClientSampleId :
RW-12I

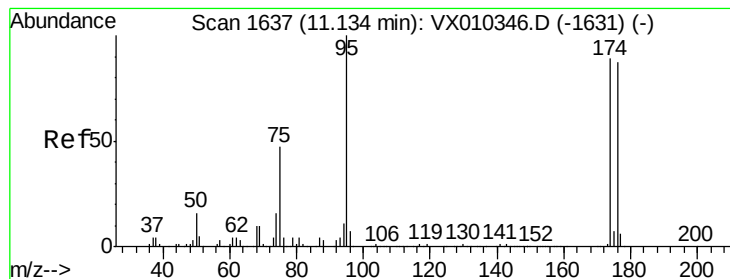
Tot Ion: 88 Resp: 2878
Ion Ratio Lower Upper
88 100
43 27.6 20.2 30.2
58 62.9 49.5 74.3



#50
Toluene-d8
Concen: 49.794 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010593.D
Acq: 01 Jul 2019 16:08

Tgt Ion: 98 Resp: 463667
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 47.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

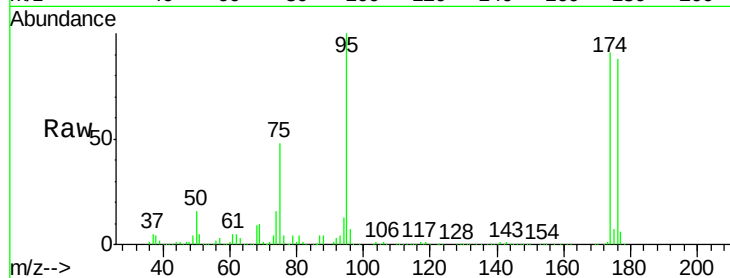
Tot Ion: 95 Resp: 159813

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.6

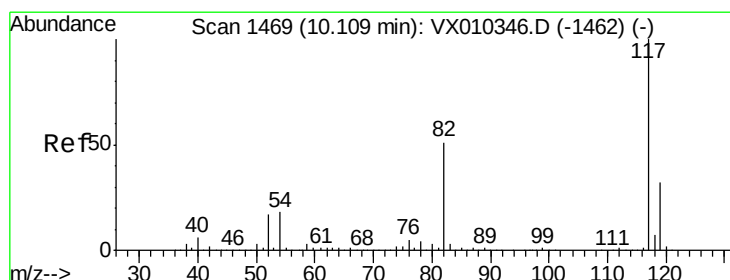
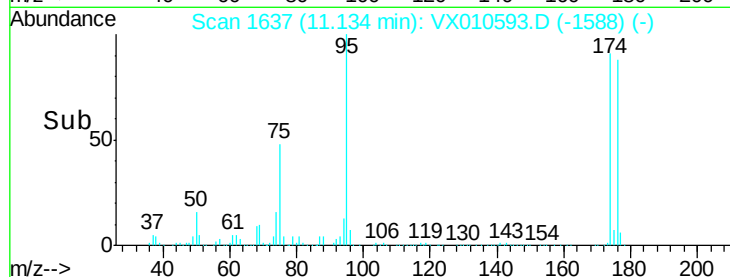
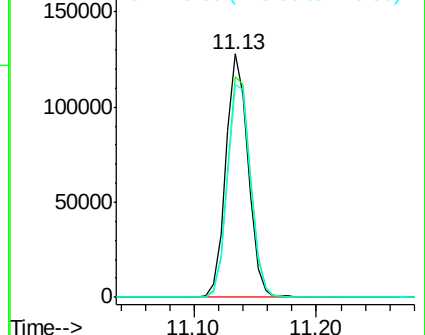
176 91.0 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

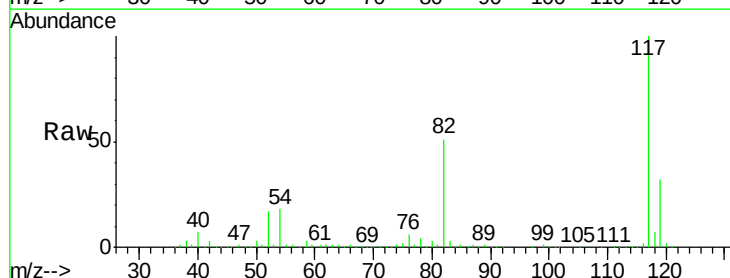
Tgt Ion: 117 Resp: 360055

Ion Ratio Lower Upper

117 100

82 51.4 41.2 61.8

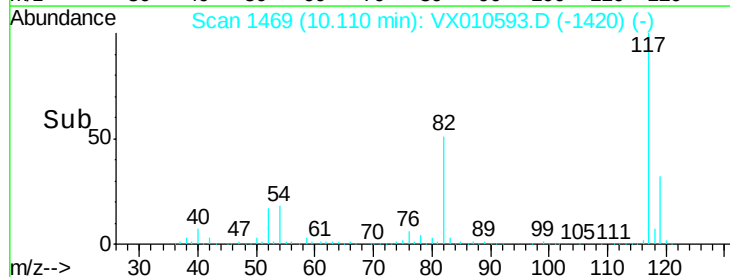
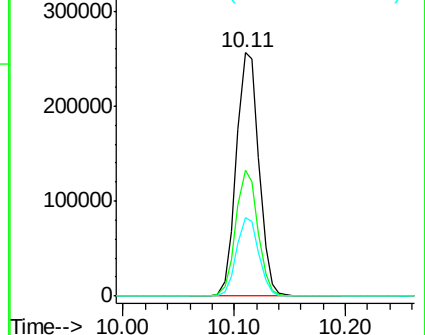
119 32.3 25.5 38.3

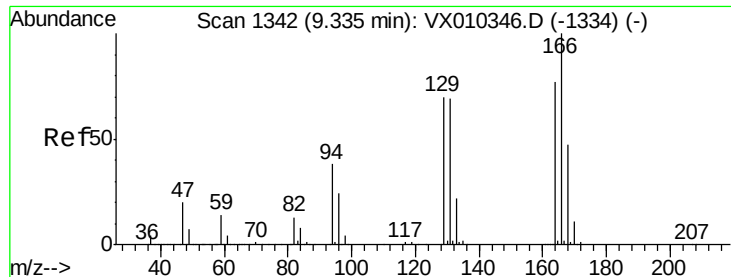


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.501 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

RW-12I

Tot Ion:164 Resp: 4372

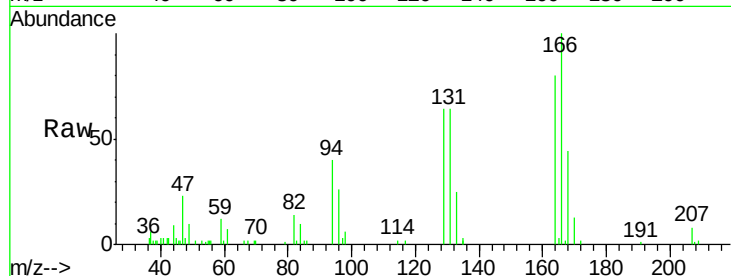
Ion Ratio Lower Upper

164 100

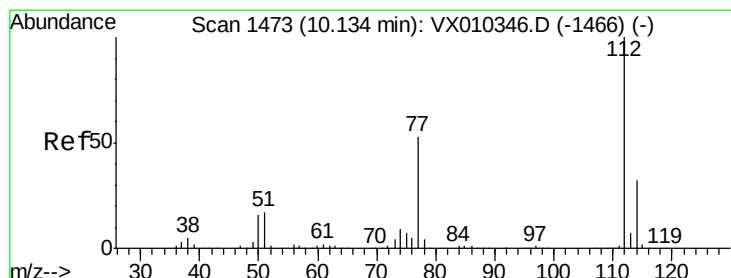
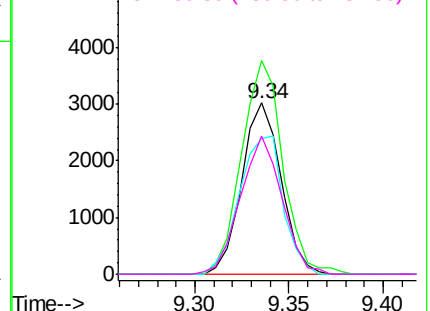
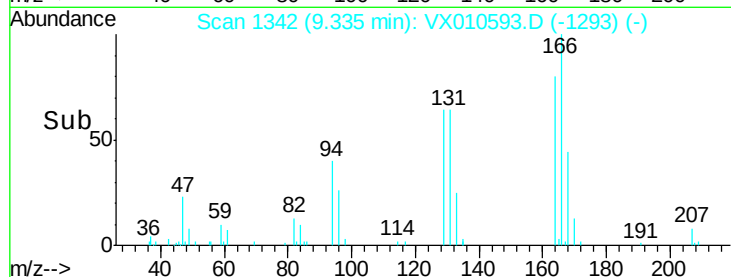
166 124.8 103.6 155.4

129 79.4 73.0 109.4

131 80.5 71.0 106.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 17.126 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX010593.D

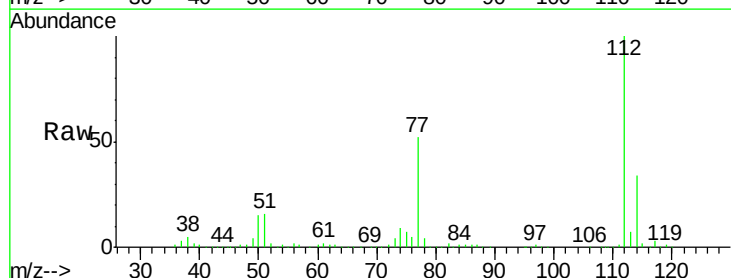
Acq: 01 Jul 2019 16:08

Tgt Ion:112 Resp: 125191

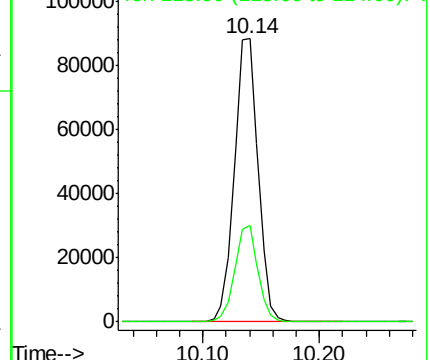
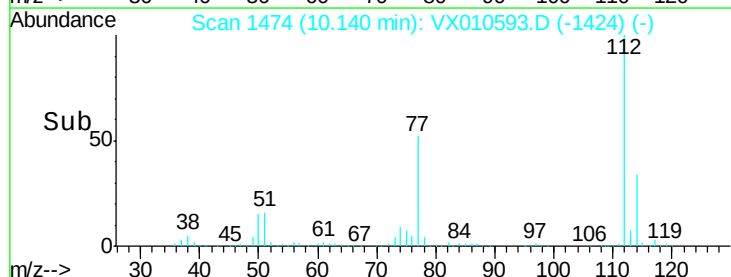
Ion Ratio Lower Upper

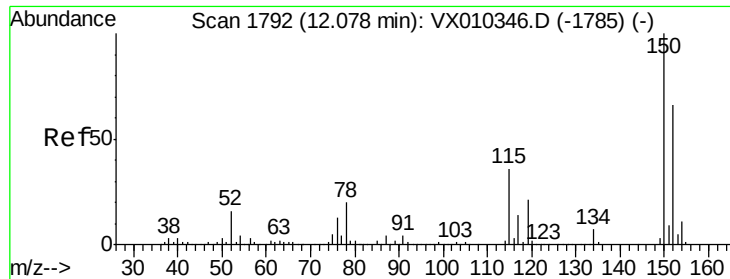
112 100

114 33.9 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

RW-12I

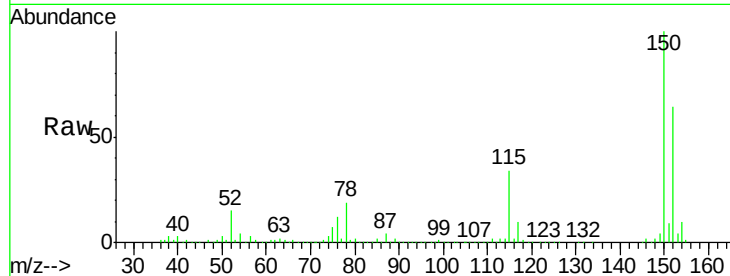
Tot Ion:152 Resp: 169286

Ion Ratio Lower Upper

152 100

115 54.1 38.6 115.7

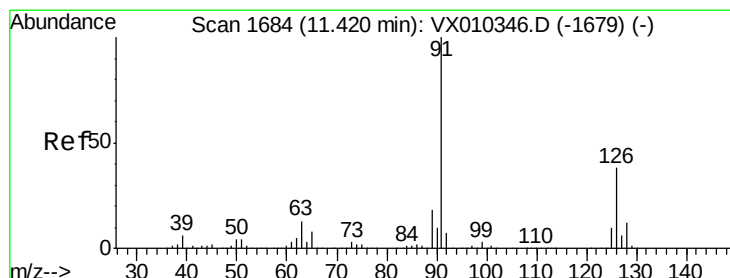
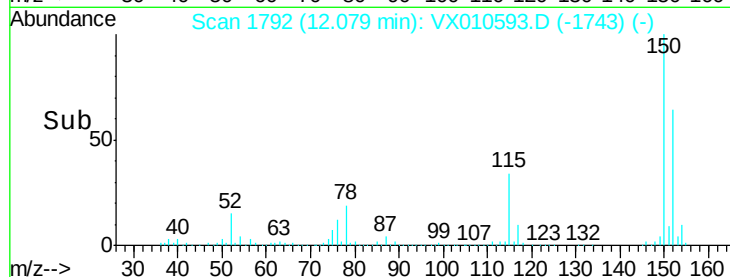
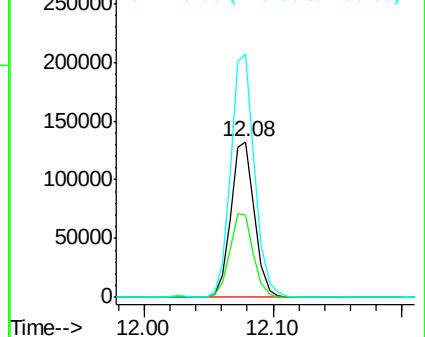
150 158.4 0.0 347.4



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



#79

2-Chlorotoluene

Concen: 0.703 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX010593.D

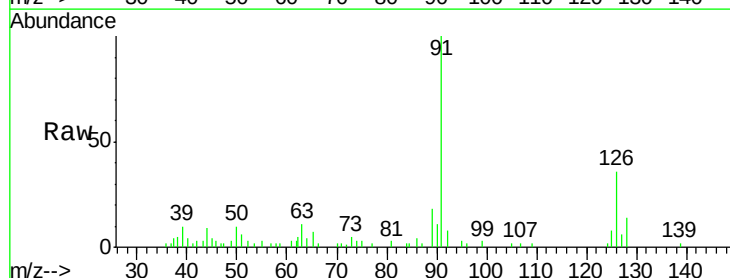
Acq: 01 Jul 2019 16:08

Tgt Ion: 91 Resp: 5283

Ion Ratio Lower Upper

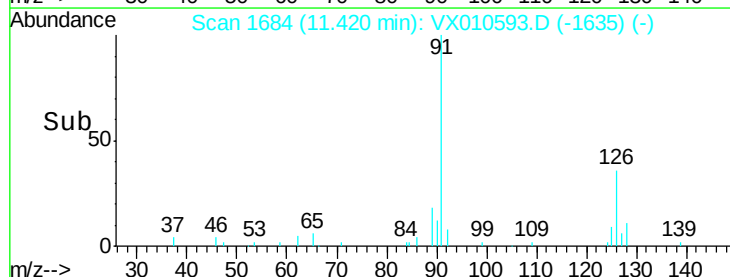
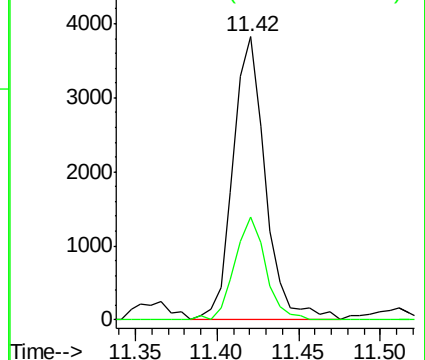
91 100

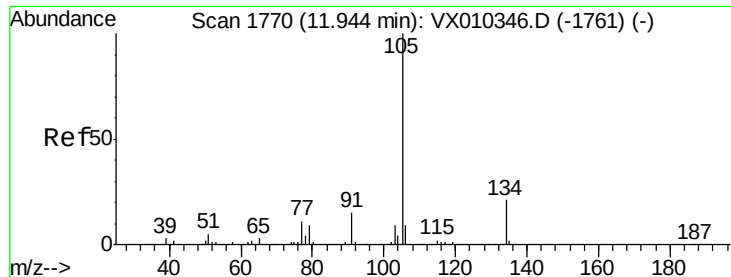
126 34.7 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#85

sec-Butylbenzene

Concen: 0.320 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

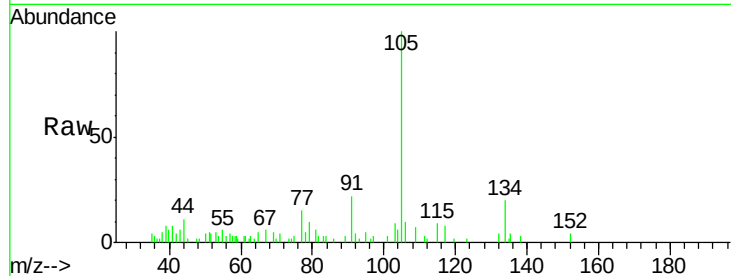
RW-12I

Tot Ion:105 Resp: 3565

Ion Ratio Lower Upper

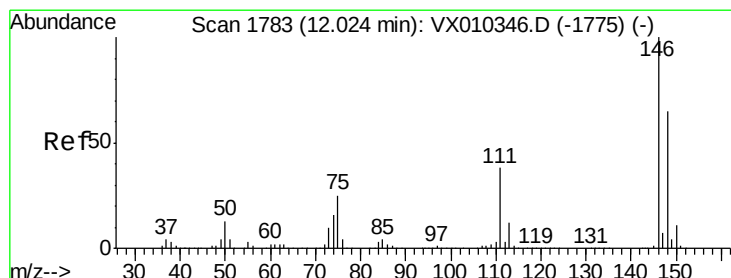
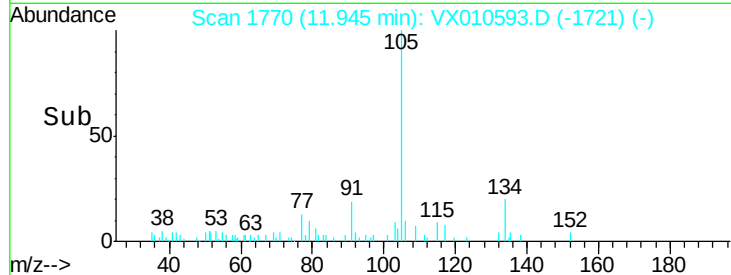
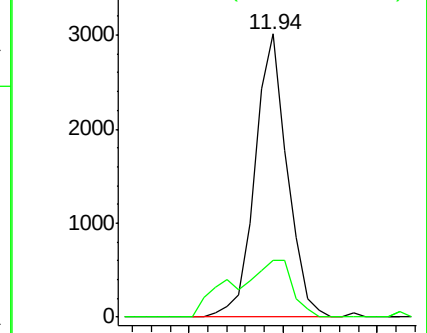
105 100

134 36.9 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 2.156 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX010593.D

Acq: 01 Jul 2019 16:08

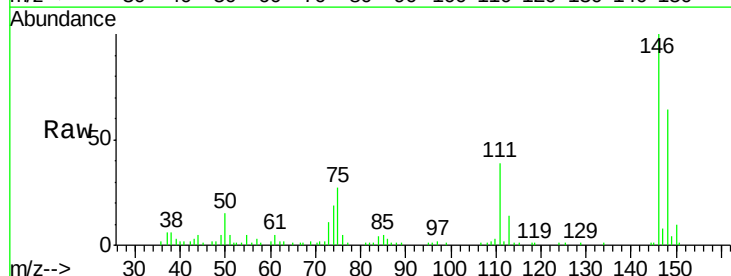
Tgt Ion:146 Resp: 12059

Ion Ratio Lower Upper

146 100

111 37.9 19.1 57.1

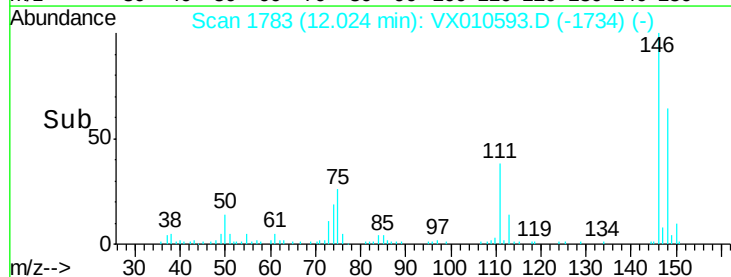
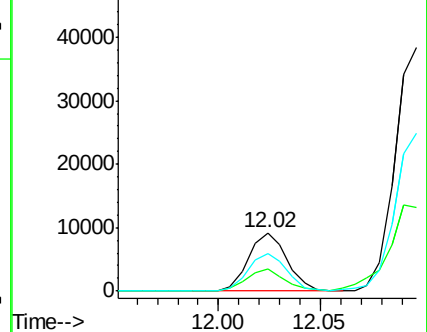
148 63.9 32.5 97.4

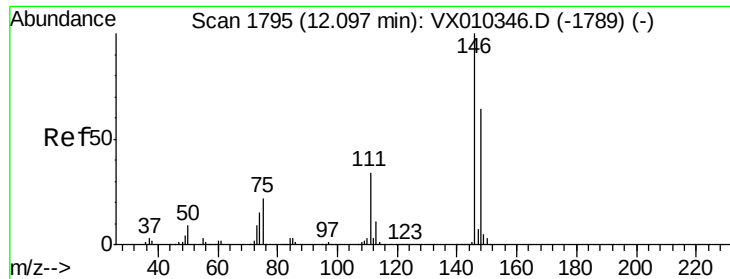


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

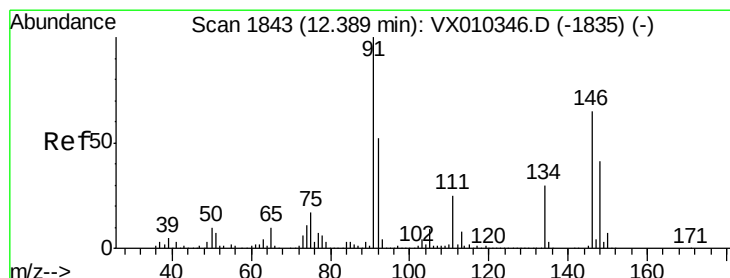
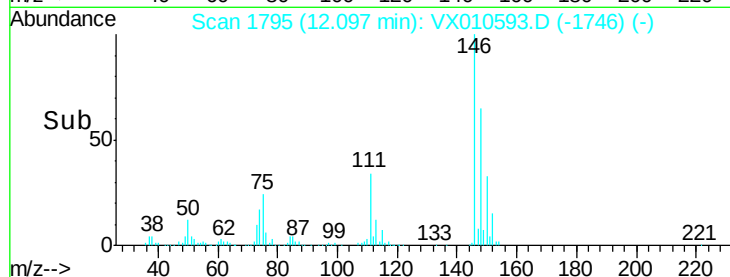
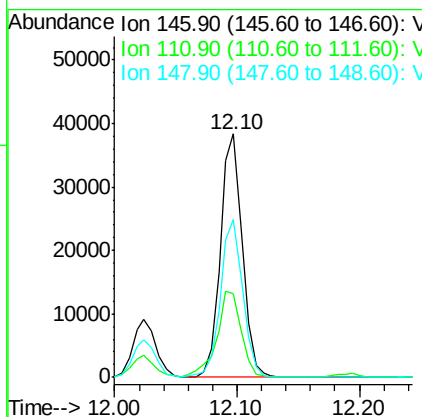
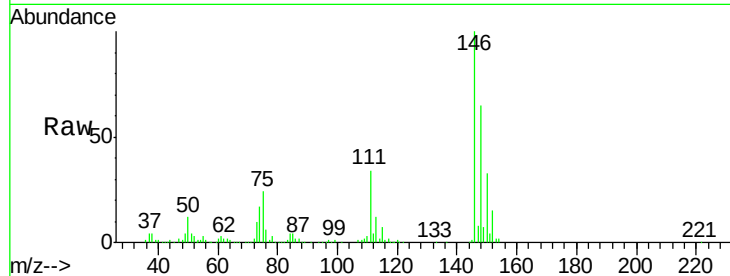




#88
 1,4-Dichlorobenzene
 Concen: 8.368 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010593.D
 Acq: 01 Jul 2019 16:08

Instrument :
 MSVOA_X
 ClientSampleId :
 RW-12I

Tot Ion:146 Resp: 47649
 Ion Ratio Lower Upper
 146 100
 111 40.1 18.1 54.3
 148 66.3 32.1 96.3



#91
 1,2-Dichlorobenzene
 Concen: 5.302 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010593.D
 Acq: 01 Jul 2019 16:08

Tgt Ion:146 Resp: 29475
 Ion Ratio Lower Upper
 146 100
 111 37.9 19.2 57.6
 148 65.3 32.0 96.0

