

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070119\
 Data File : VX010592.D
 Acq On : 01 Jul 2019 15:44
 Operator : JC/SP
 Sample : K3521-41
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW-12D

Quant Time: Jul 02 06:56:55 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	5.67	168	262450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	401063	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	363585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169333	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	123491	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	5.50	113	121700	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	472620	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	156007	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	

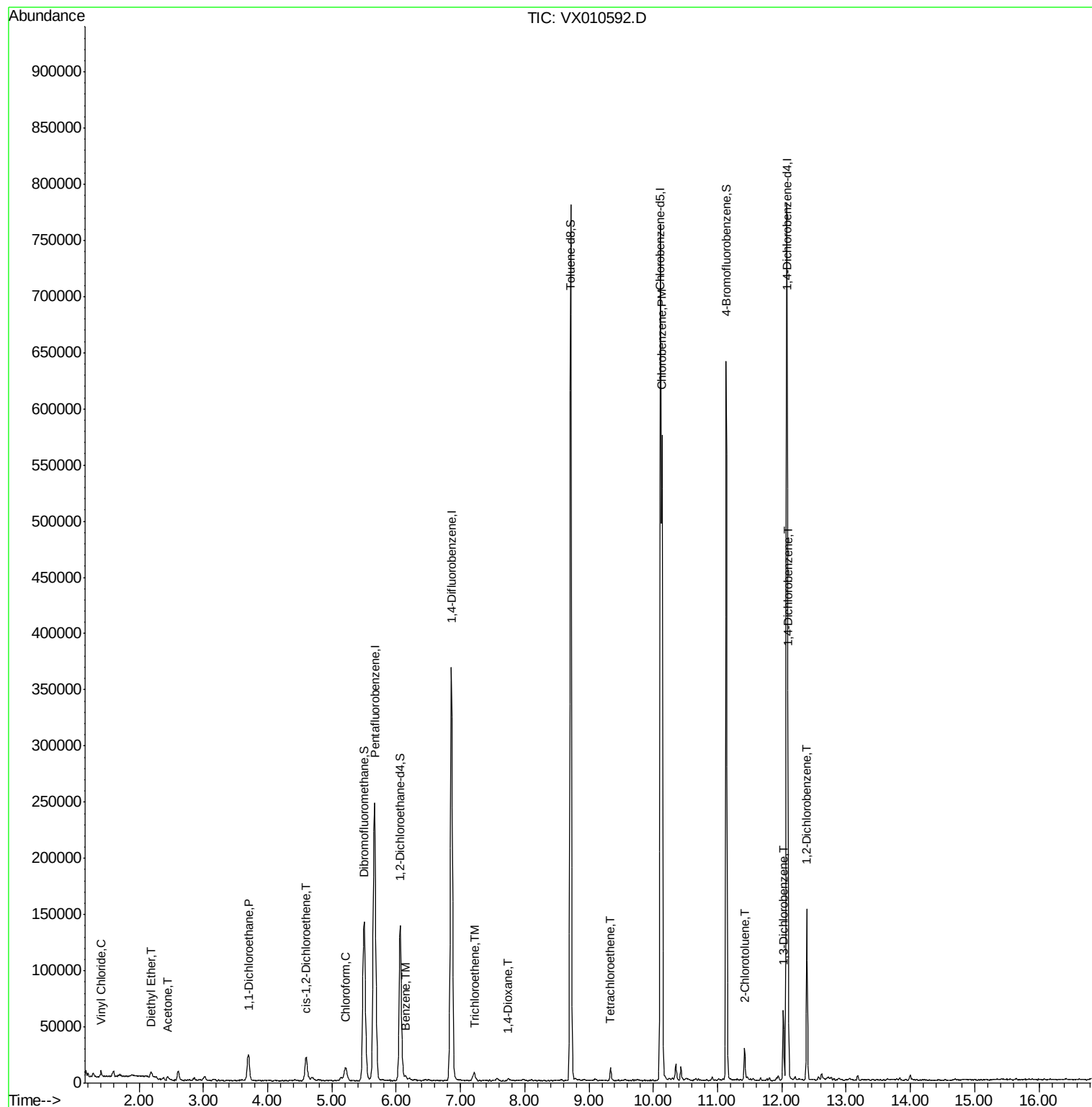
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	3848	1.654	ug/l	100
8) Diethyl Ether	2.18	74	1104	0.834	ug/l	95
16) Acetone	2.44	43	2625	2.129	ug/l	100
24) 1,1-Dichloroethane	3.70	63	26746	6.852	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	14732	5.211	ug/l	93
30) Chloroform	5.21	83	14424	3.435	ug/l	100
40) Benzene	6.15	78	4237	0.427	ug/l	97
44) Trichloroethene	7.21	130	2745	0.924	ug/l	86
49) 1,4-Dioxane	7.74	88	1761	24.244	ug/l #	90
64) Tetrachloroethene	9.34	164	2288	0.778	ug/l	93
65) Chlorobenzene	10.14	112	260240	35.256	ug/l	99
79) 2-Chlorotoluene	11.42	91	12049	1.604	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	20291	3.627	ug/l	95
88) 1,4-Dichlorobenzene	12.10	146	77000	13.519	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	50645	9.108	ug/l	99

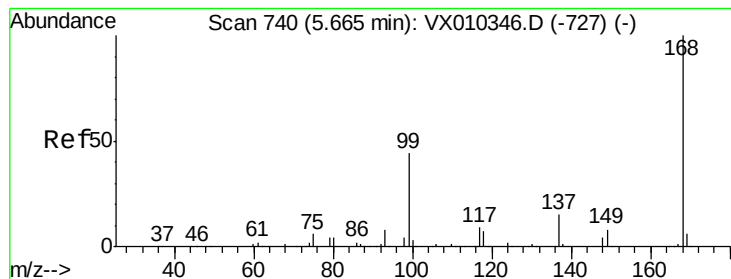
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

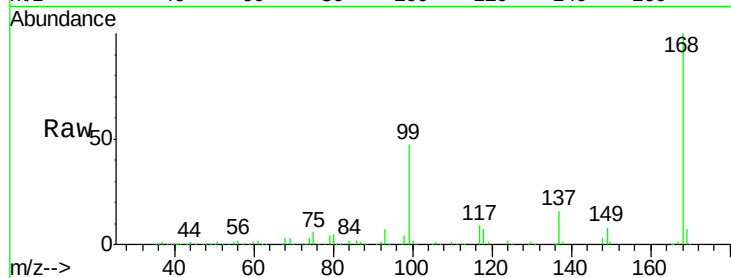
RW-12D

Tot Ion:168 Resp: 262450

Ion Ratio Lower Upper

168 100

99 46.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

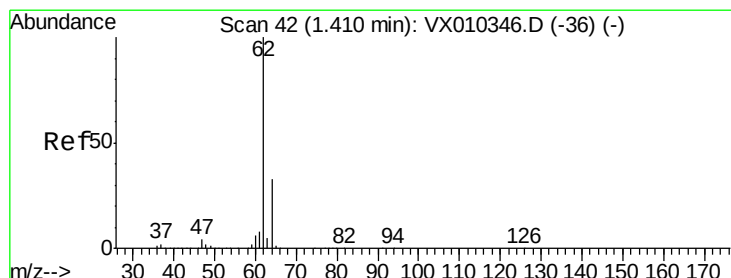
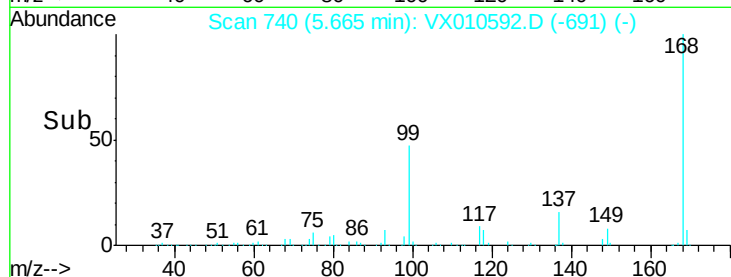
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.654 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010592.D

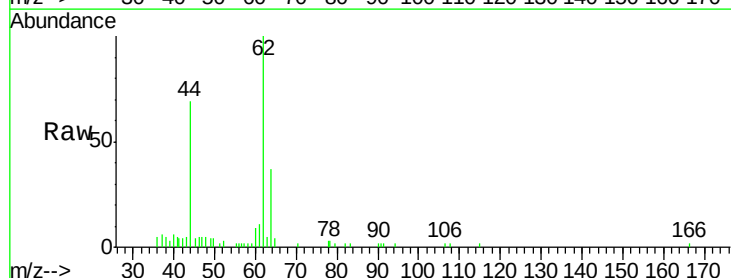
Acq: 01 Jul 2019 15:44

Tgt Ion: 62 Resp: 3848

Ion Ratio Lower Upper

62 100

64 33.0 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

4000

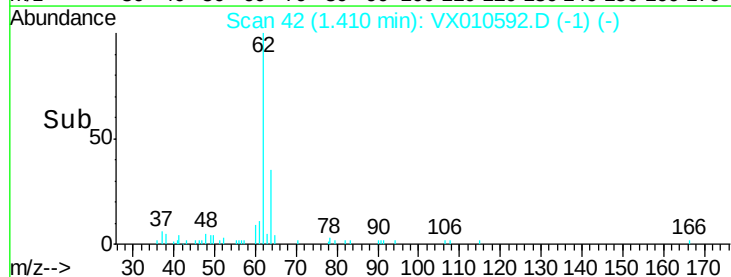
3000

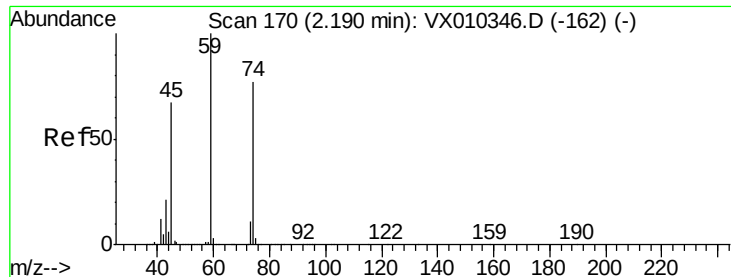
2000

1000

0

Time--> 1.35 1.40 1.45





#8

Diethyl Ether

Concen: 0.834 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampled :

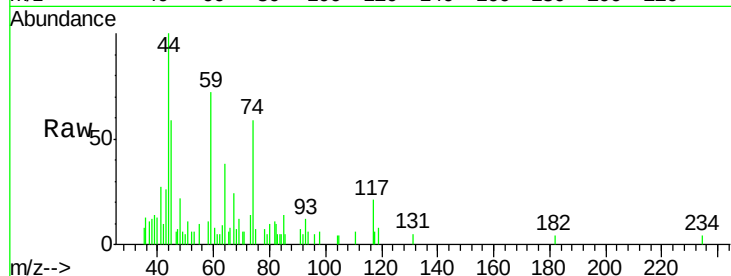
RW-12D

Tot Ion: 74 Resp: 1104

Ion Ratio Lower Upper

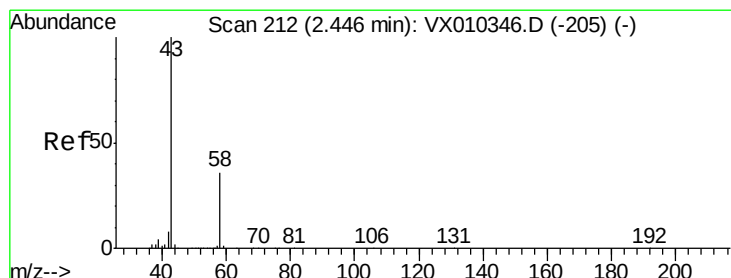
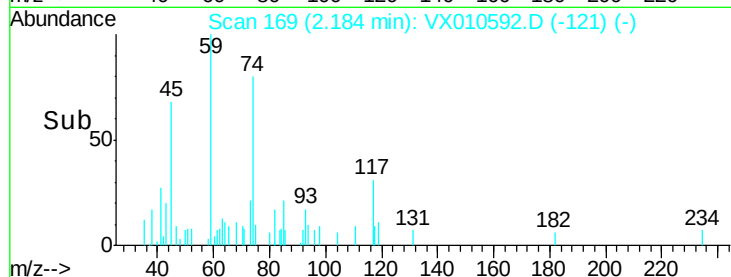
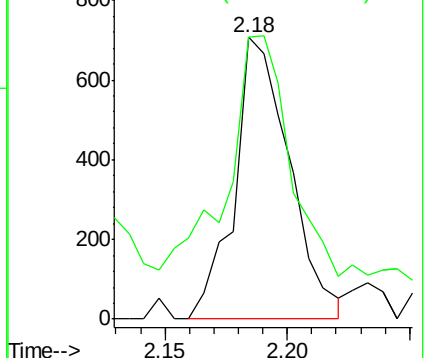
74 100

45 94.2 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#16

Acetone

Concen: 2.129 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010592.D

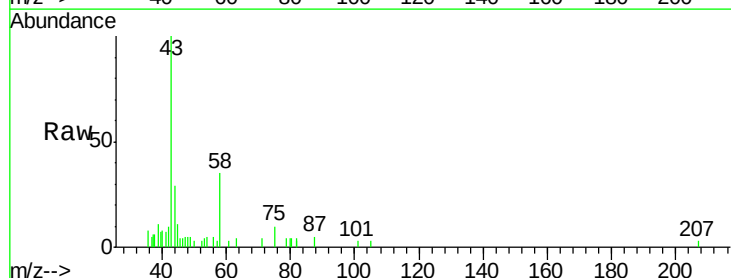
Acq: 01 Jul 2019 15:44

Tgt Ion: 43 Resp: 2625

Ion Ratio Lower Upper

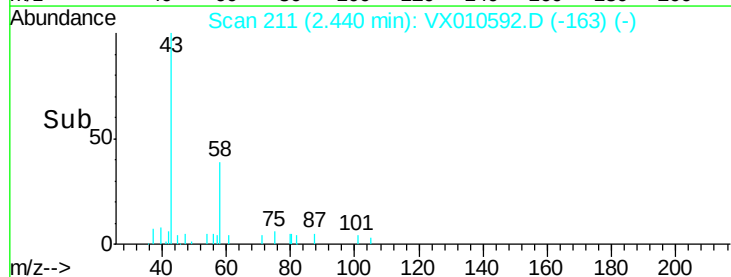
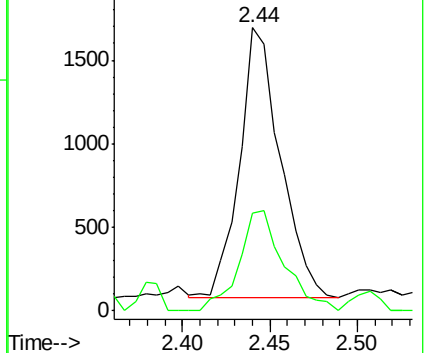
43 100

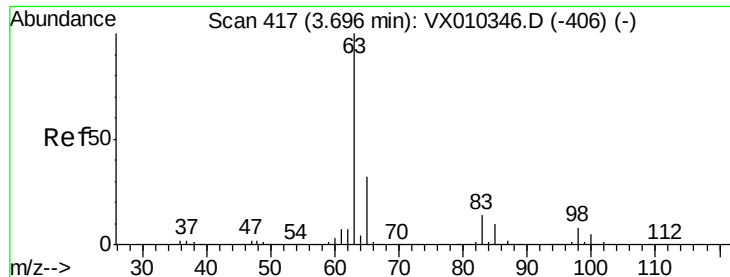
58 36.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#24

1,1-Dichloroethane

Concen: 6.852 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampled :

RW-12D

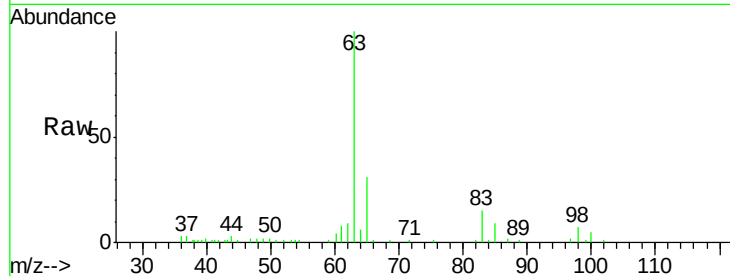
Tot Ion: 63 Resp: 26746

Ion Ratio Lower Upper

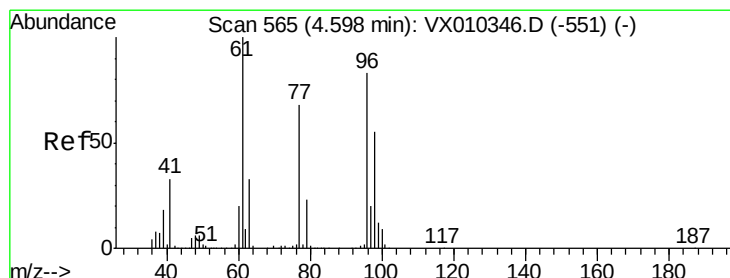
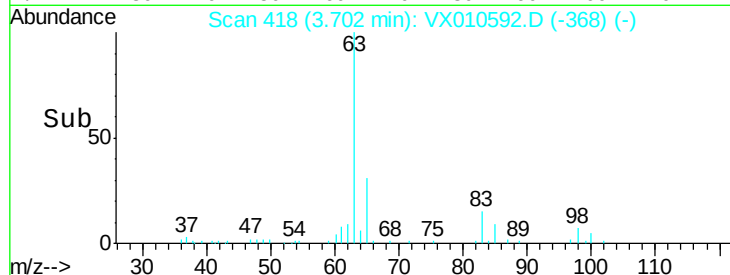
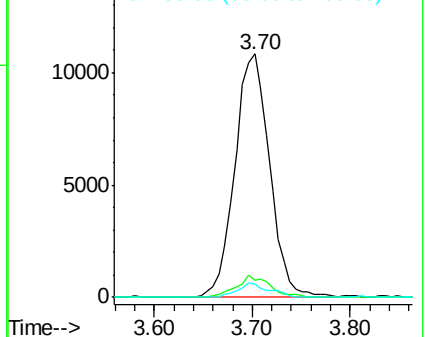
63 100

98 7.2 3.9 11.7

100 5.5 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: 5.211 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

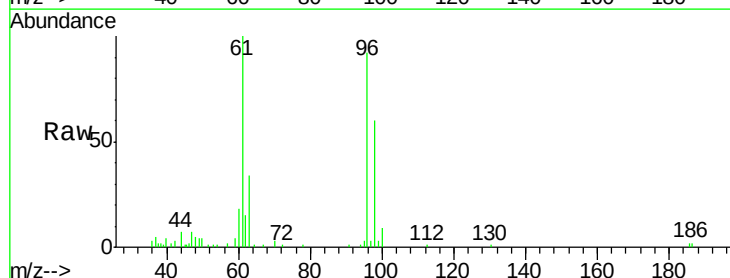
Tgt Ion: 96 Resp: 14732

Ion Ratio Lower Upper

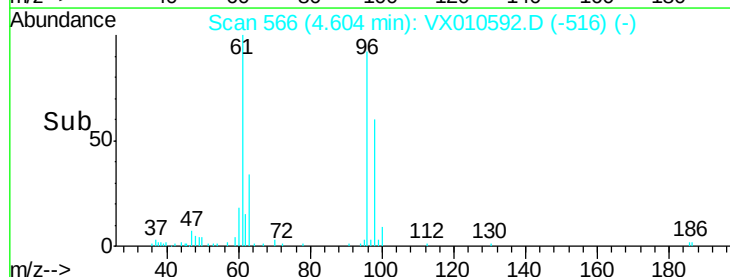
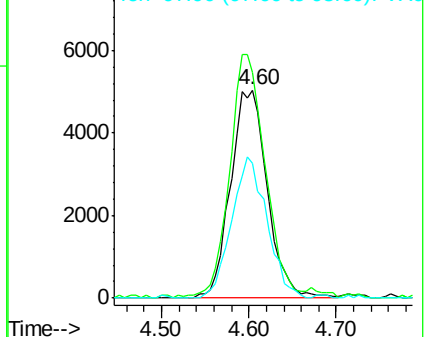
96 100

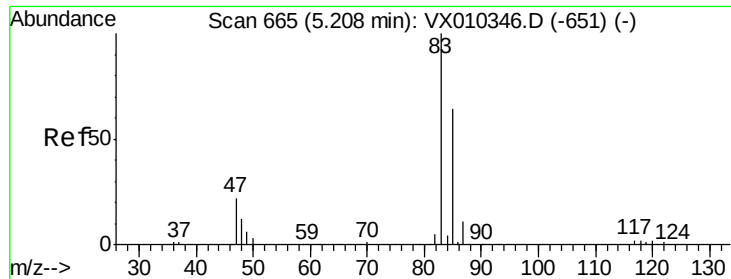
61 113.9 0.0 251.8

98 65.1 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

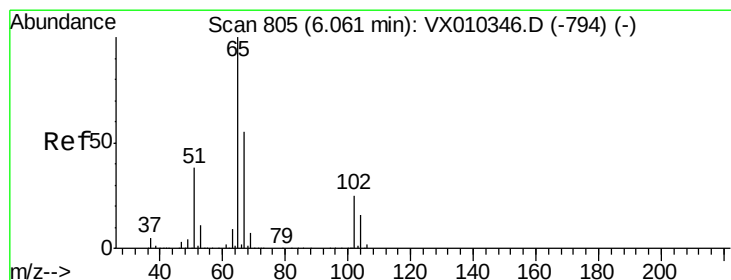
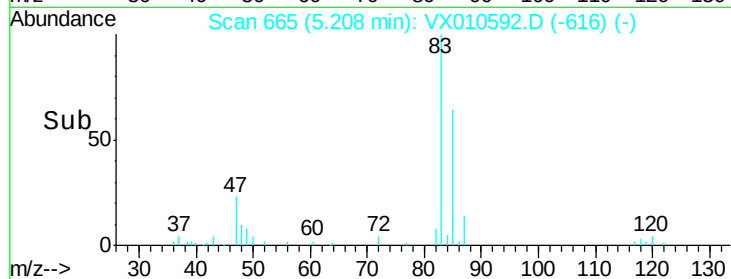
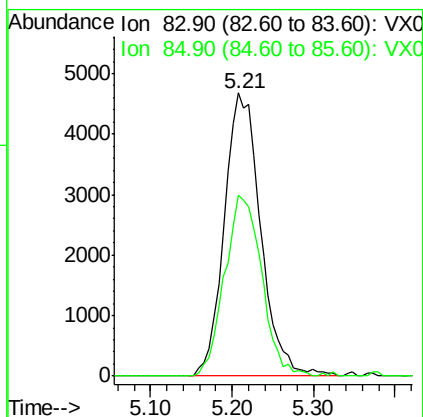
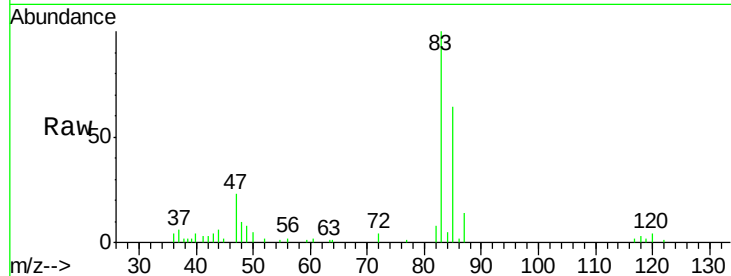




#30
Chloroform
Concen: 3.435 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX010592.D
Acq: 01 Jul 2019 15:44

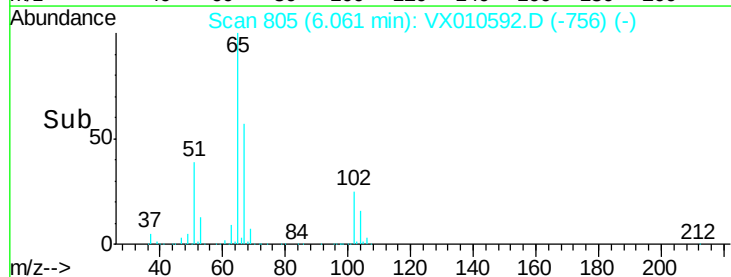
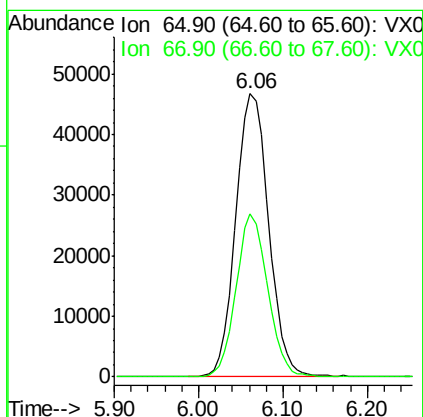
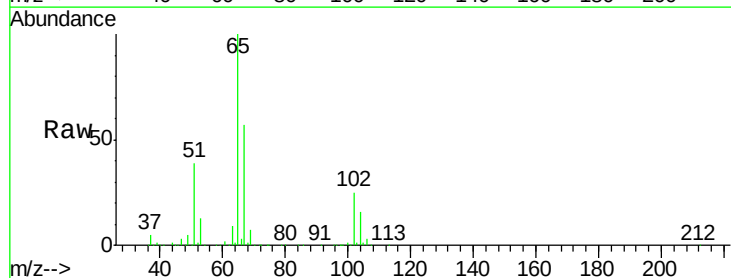
Instrument :
MSVOA_X
ClientSampled :
RW-12D

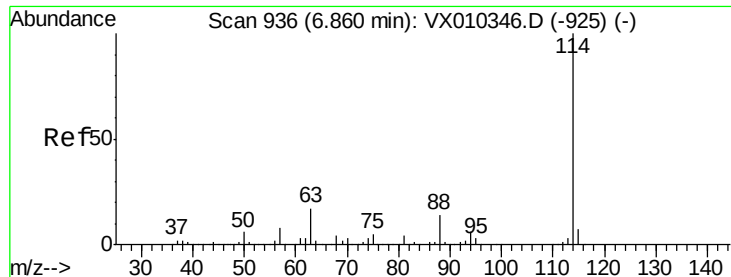
Tot Ion: 83 Resp: 14424
Ion Ratio Lower Upper
83 100
85 63.9 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 50.185 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010592.D
Acq: 01 Jul 2019 15:44

Tgt Ion: 65 Resp: 123491
Ion Ratio Lower Upper
65 100
67 55.2 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: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

RW-12D

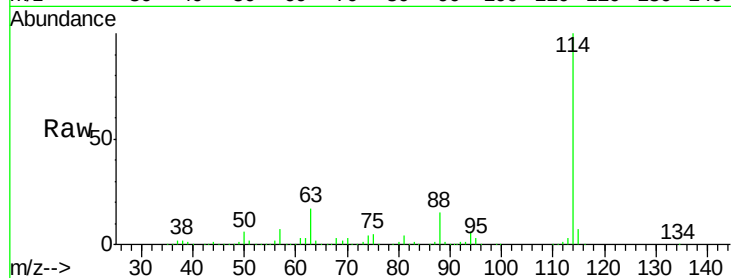
Tot Ion:114 Resp: 401063

Ion Ratio Lower Upper

114 100

63 16.9 0.0 33.8

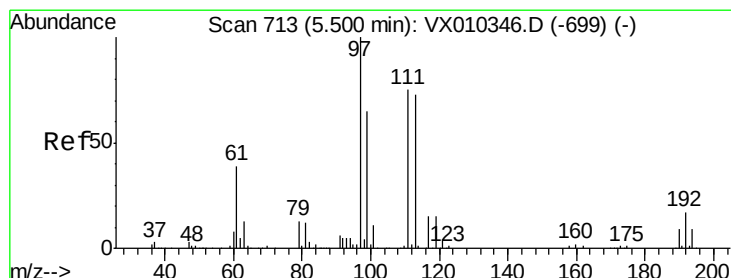
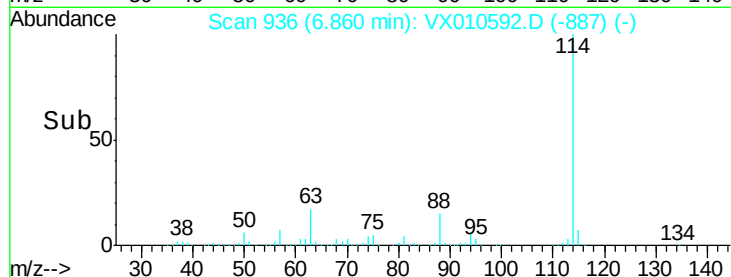
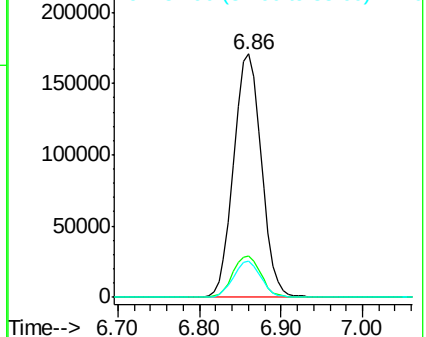
88 14.8 0.0 27.6



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: 49.596 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

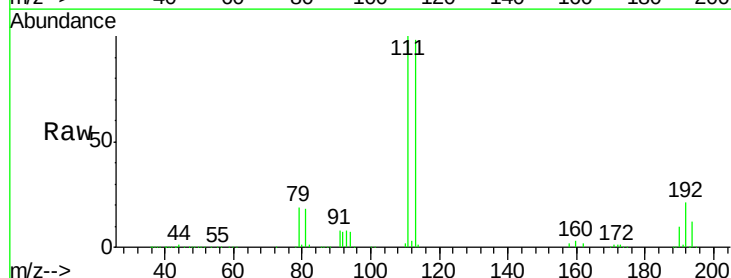
Tgt Ion:113 Resp: 121700

Ion Ratio Lower Upper

113 100

111 102.0 81.2 121.8

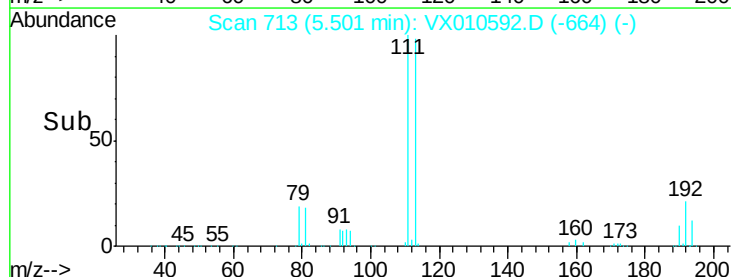
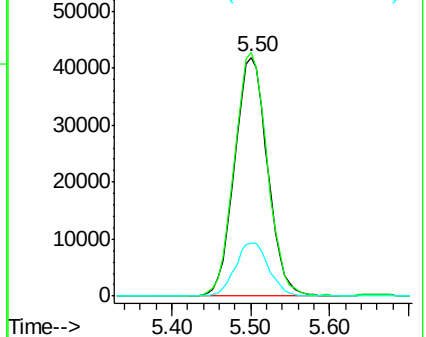
192 22.8 18.6 27.8

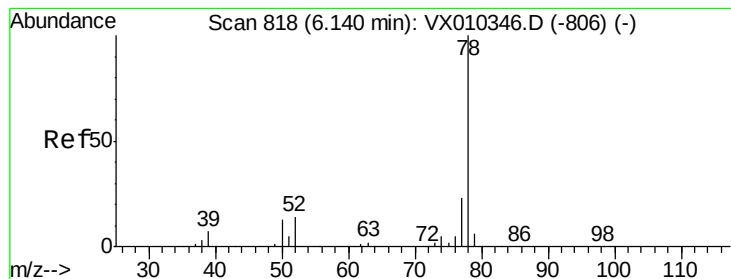


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 0.427 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

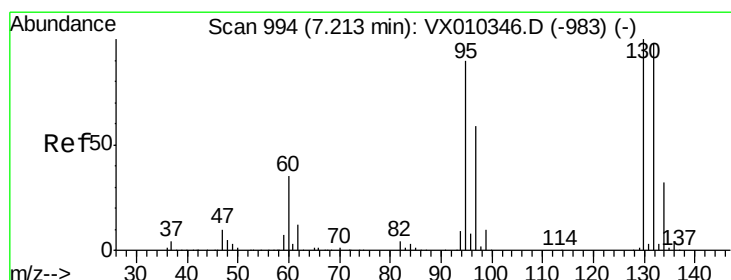
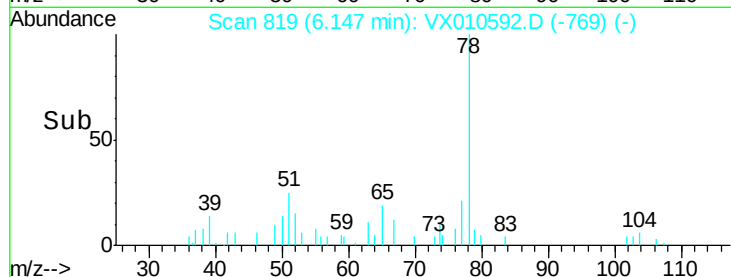
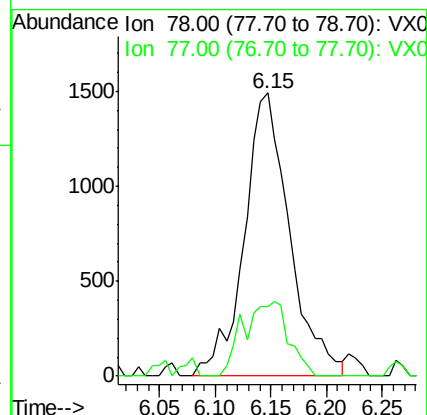
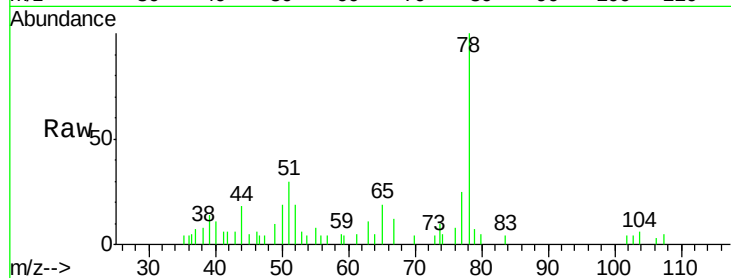
RW-12D

Tot Ion: 78 Resp: 4237

Ion Ratio Lower Upper

78 100

77 24.7 18.6 28.0



#44

Trichloroethene

Concen: 0.924 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX010592.D

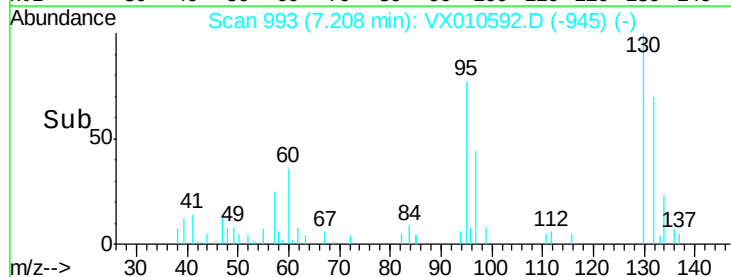
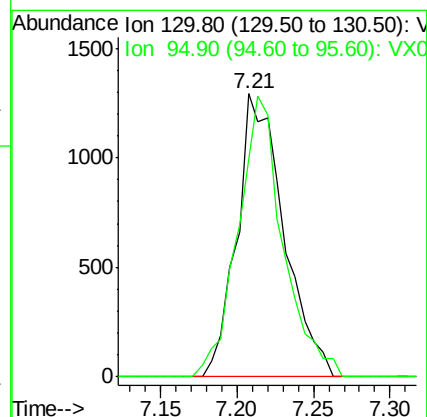
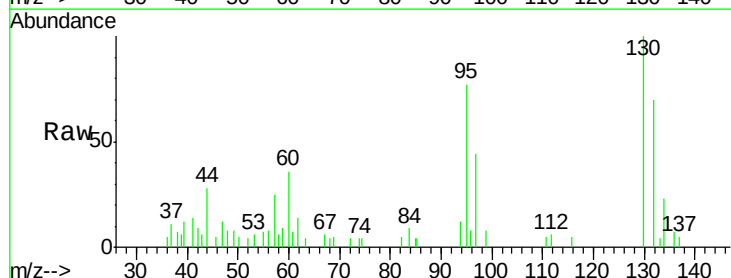
Acq: 01 Jul 2019 15:44

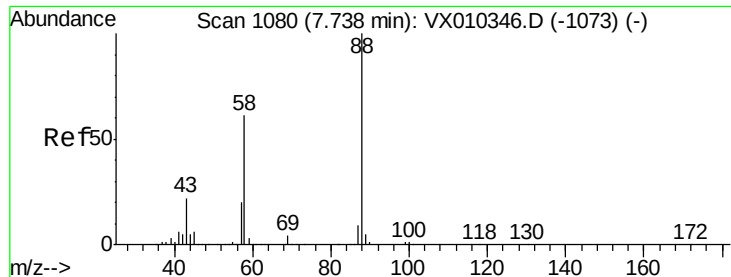
Tgt Ion:130 Resp: 2745

Ion Ratio Lower Upper

130 100

95 77.1 0.0 180.8





#49

1,4-Dioxane

Concen: 24.244 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

RW-12D

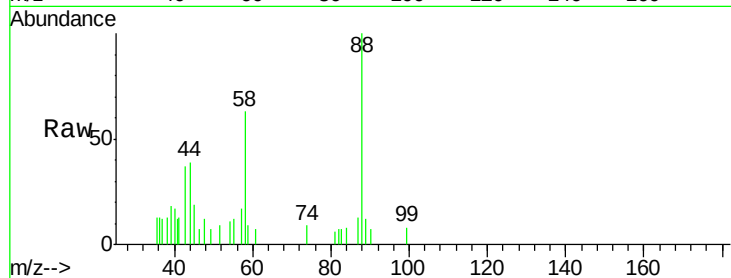
Tot Ion: 88 Resp: 1761

Ion Ratio Lower Upper

88 100

43 30.3 20.2 30.2#

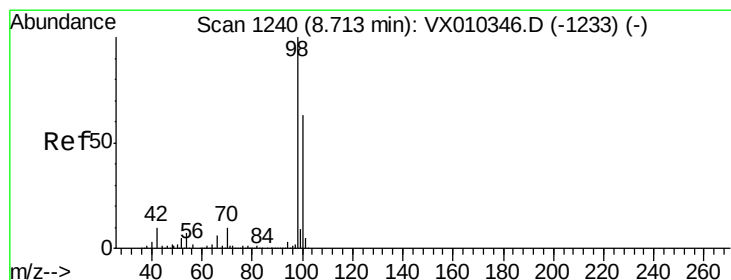
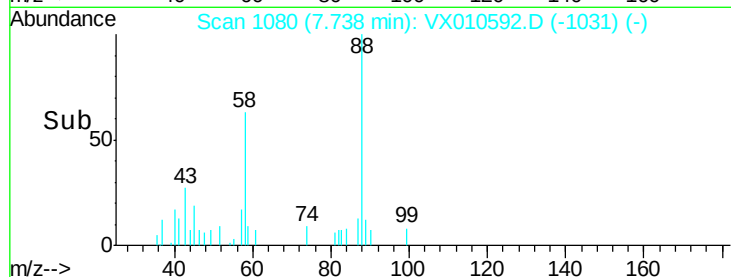
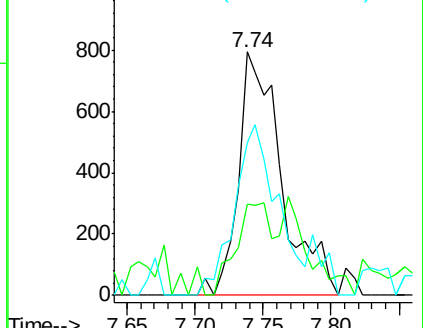
58 69.6 49.5 74.3



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.343 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010592.D

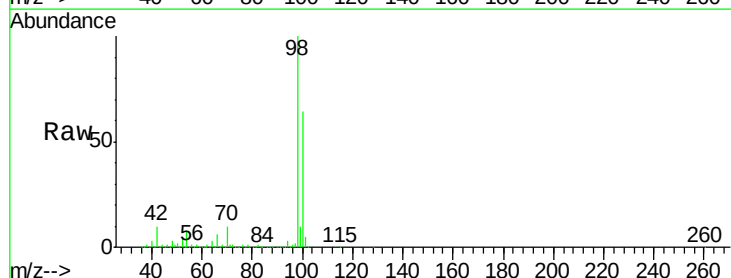
Acq: 01 Jul 2019 15:44

Tgt Ion: 98 Resp: 472620

Ion Ratio Lower Upper

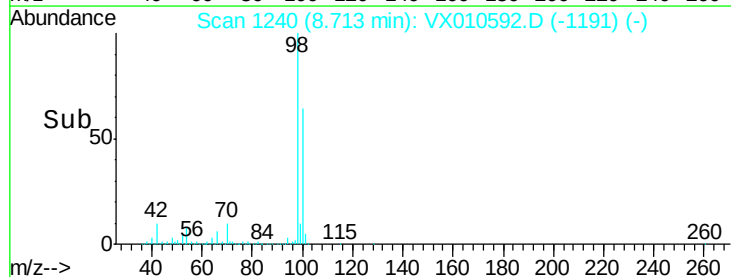
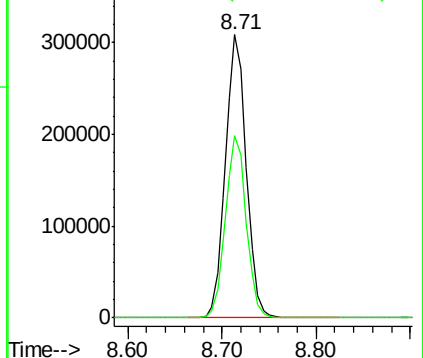
98 100

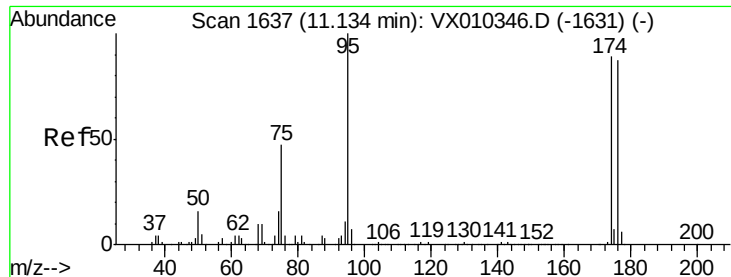
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

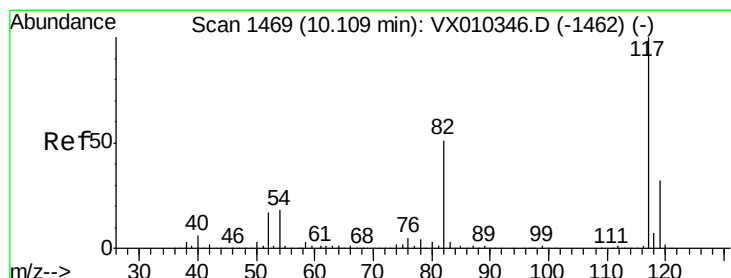
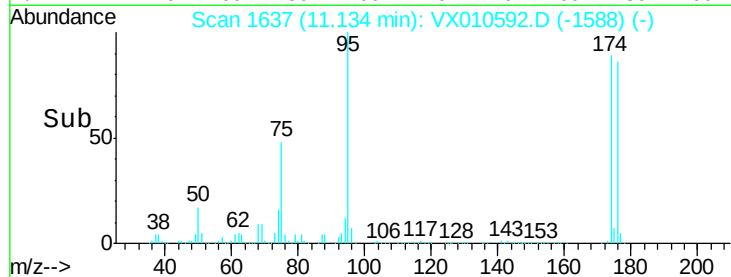
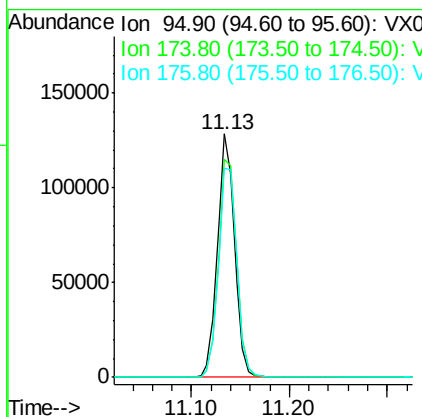
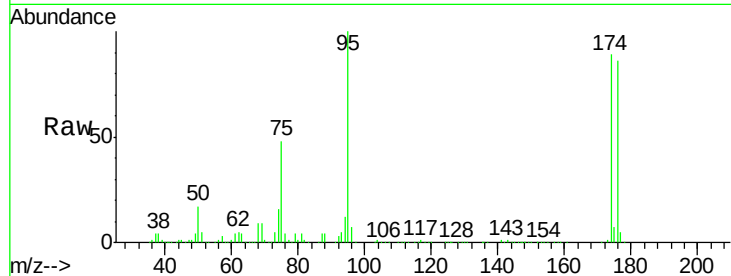




#62
4-Bromofluorobenzene
Concen: 46.029 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010592.D
Acq: 01 Jul 2019 15:44

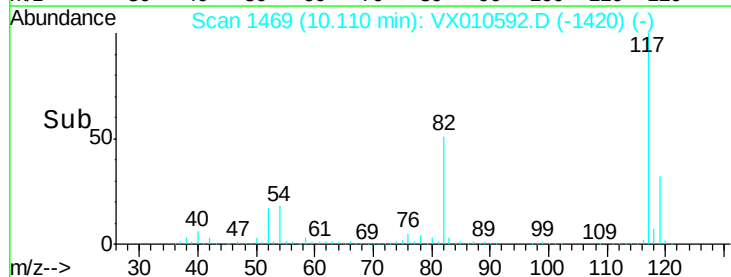
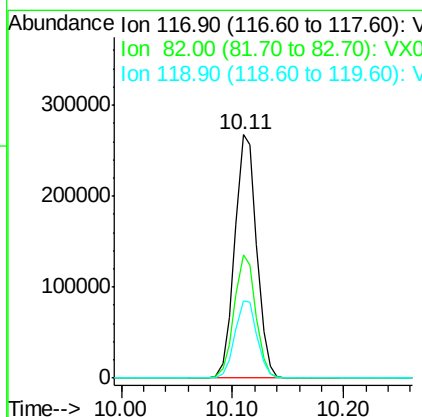
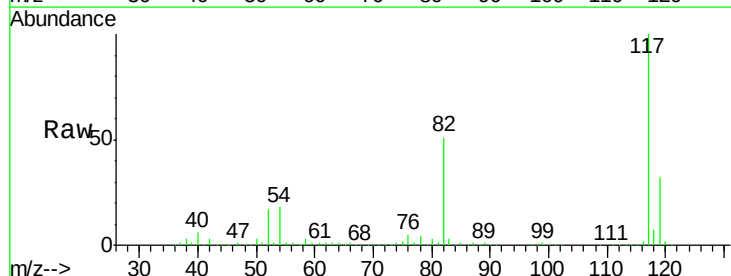
Instrument :
MSVOA_X
ClientSampleId :
RW-12D

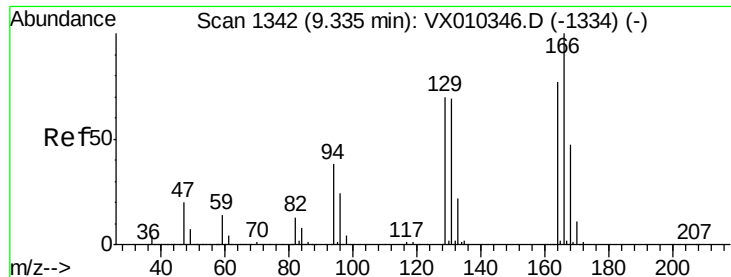
Tot Ion: 95 Resp: 156007
Ion Ratio Lower Upper
95 100
174 95.3 0.0 187.6
176 92.6 0.0 184.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010592.D
Acq: 01 Jul 2019 15:44

Tgt Ion: 117 Resp: 363585
Ion Ratio Lower Upper
117 100
82 50.8 41.2 61.8
119 31.6 25.5 38.3





#64

Tetrachloroethene

Concen: 0.778 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

RW-12D

Tot Ion:164 Resp: 2288

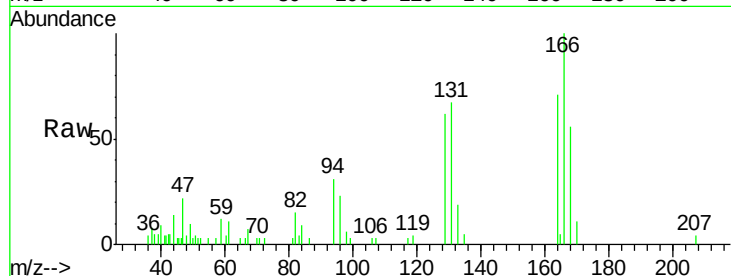
Ion Ratio Lower Upper

164 100

166 140.3 103.6 155.4

129 87.3 73.0 109.4

131 94.3 71.0 106.4

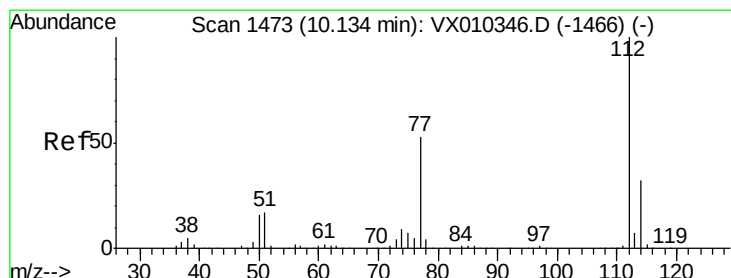
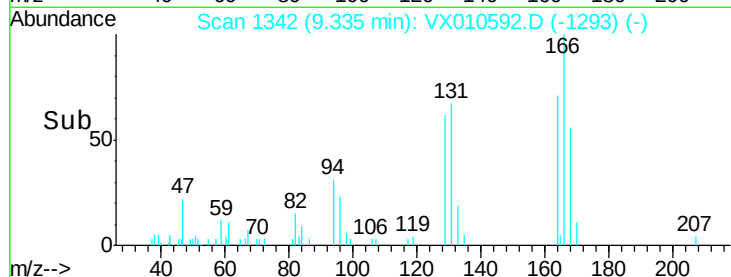
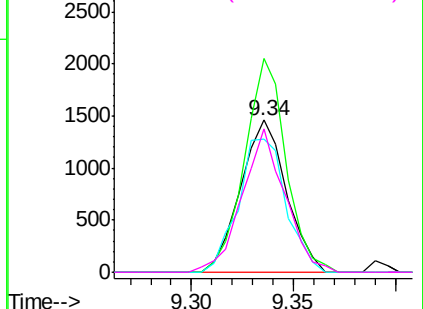


Abundance Ion 163.80 (163.50 to 164.50): V

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: 35.256 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX010592.D

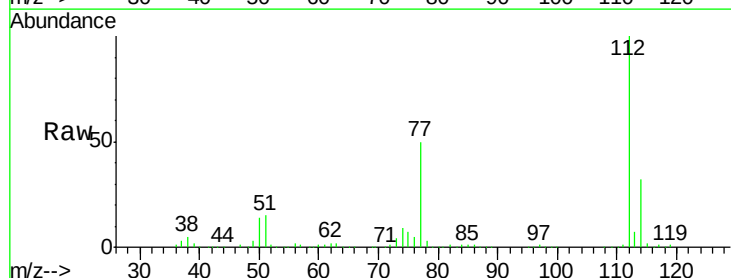
Acq: 01 Jul 2019 15:44

Tgt Ion:112 Resp: 260240

Ion Ratio Lower Upper

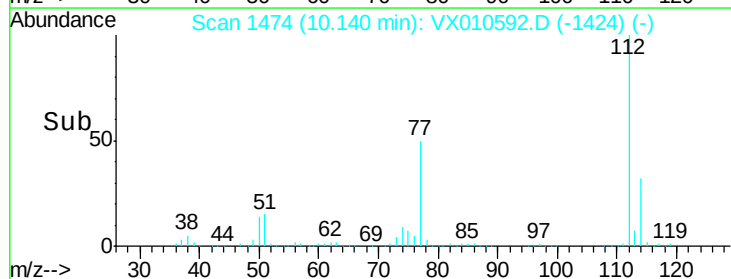
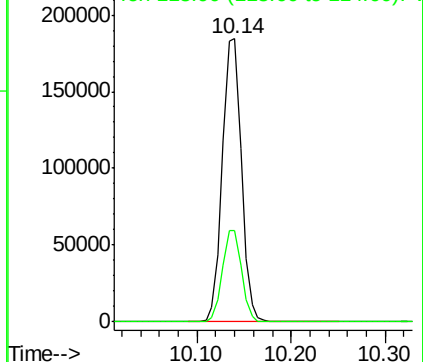
112 100

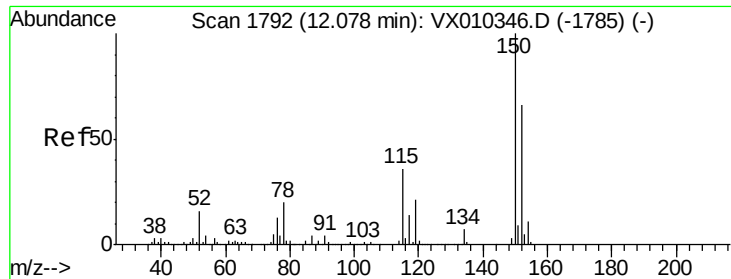
114 32.4 25.4 38.2



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: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampled :

RW-12D

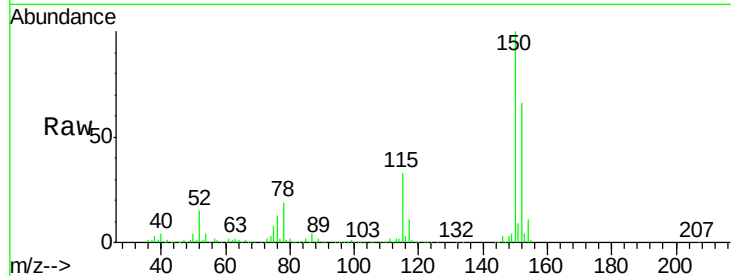
Tot Ion:152 Resp: 169333

Ion Ratio Lower Upper

152 100

115 53.8 38.6 115.7

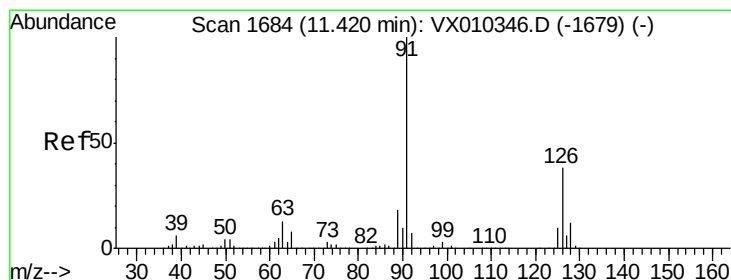
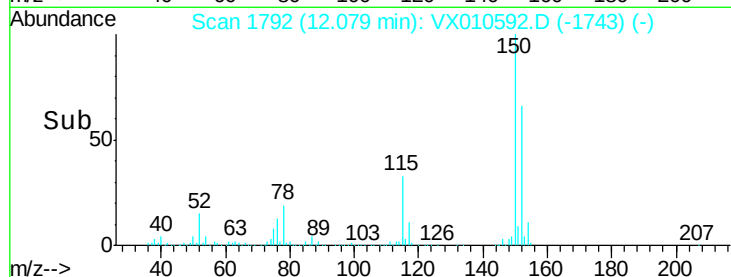
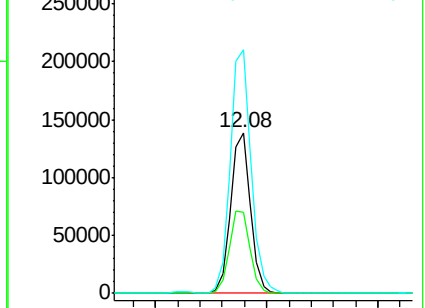
150 159.7 0.0 347.4



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: 1.604 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX010592.D

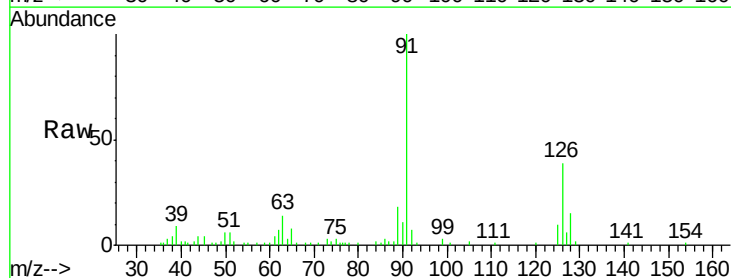
Acq: 01 Jul 2019 15:44

Tgt Ion: 91 Resp: 12049

Ion Ratio Lower Upper

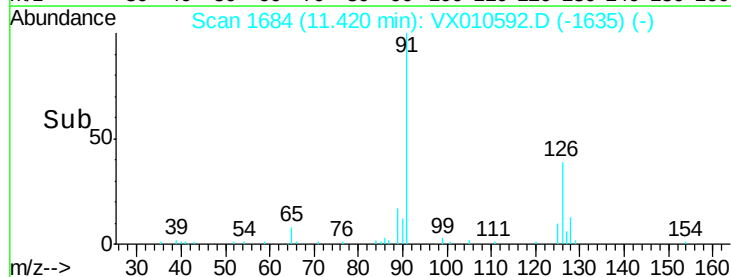
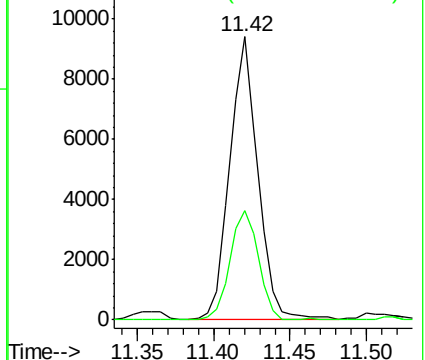
91 100

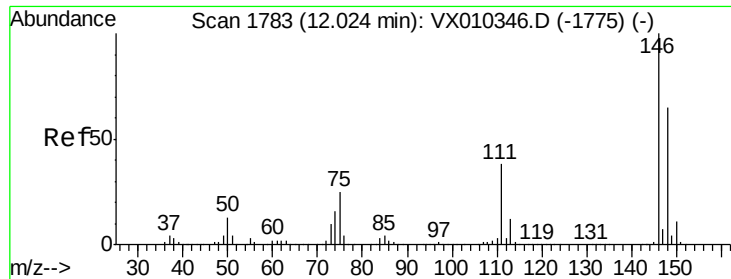
126 38.5 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

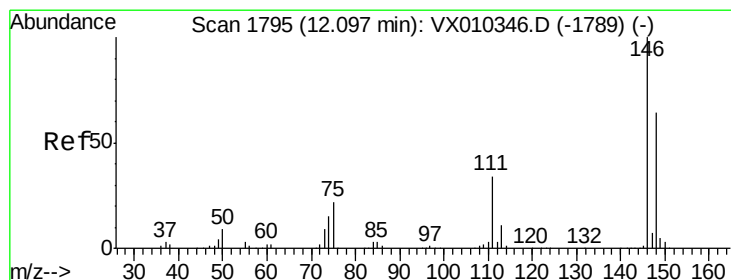
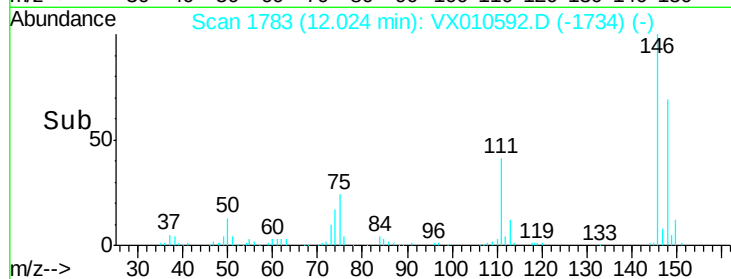
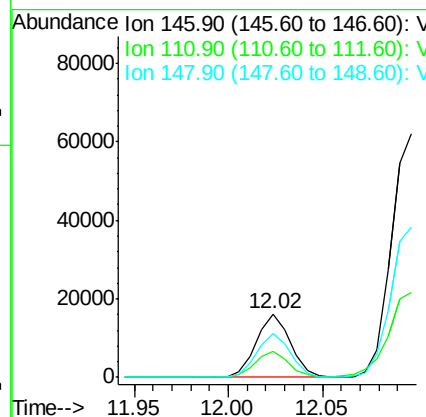
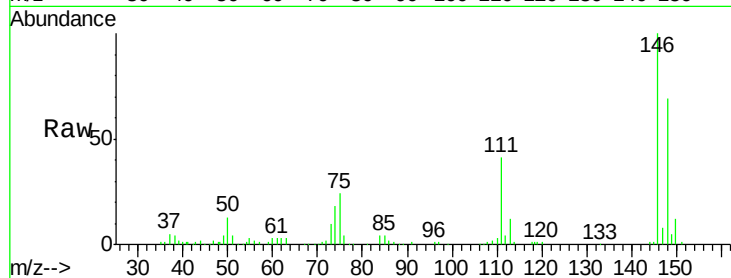




#87
 1,3-Dichlorobenzene
 Concen: 3.627 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX010592.D
 Acq: 01 Jul 2019 15:44

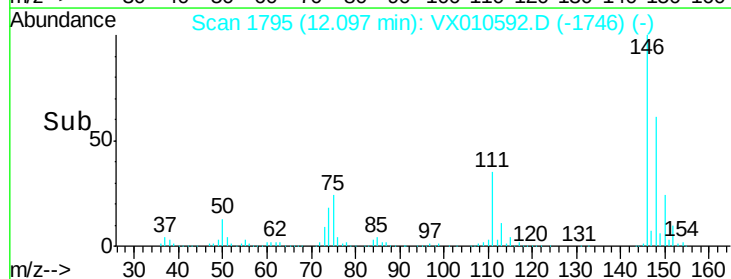
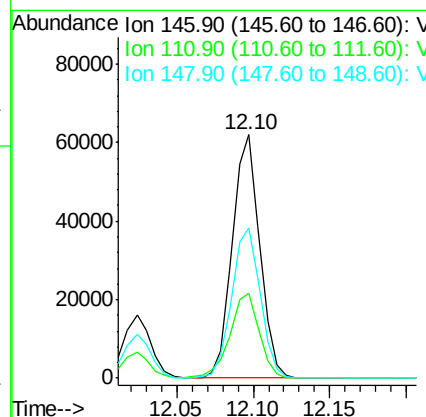
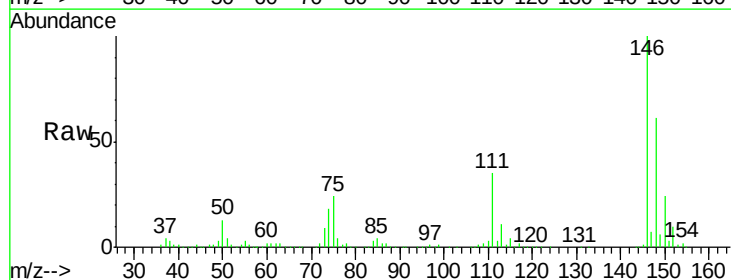
Instrument :
 MSVOA_X
 ClientSampled :
 RW-12D

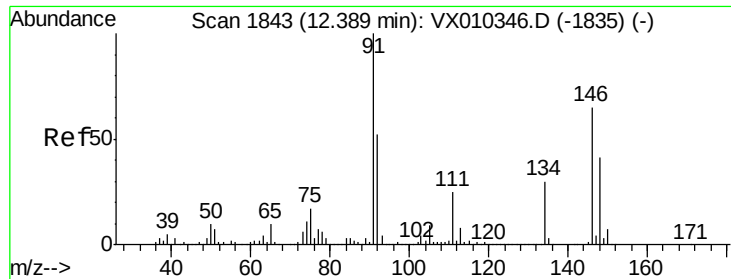
Tot Ion:146 Resp: 20291
 Ion Ratio Lower Upper
 146 100
 111 40.4 19.1 57.1
 148 69.3 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 13.519 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010592.D
 Acq: 01 Jul 2019 15:44

Tgt Ion:146 Resp: 77000
 Ion Ratio Lower Upper
 146 100
 111 37.6 18.1 54.3
 148 64.4 32.1 96.3





#91

1,2-Dichlorobenzene

Concen: 9.108 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010592.D

Acq: 01 Jul 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

RW-12D

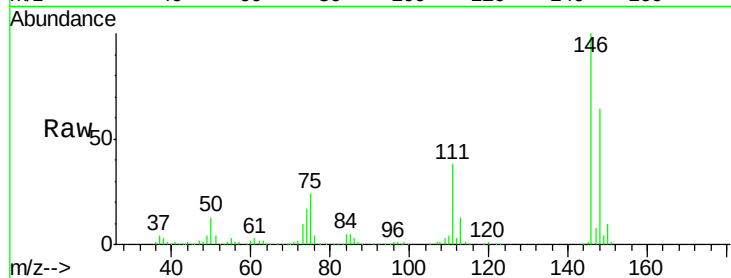
Tot Ion:146 Resp: 50645

Ion Ratio Lower Upper

146 100

111 37.8 19.2 57.6

148 63.4 32.0 96.0



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

