

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014088.D
 Acq On : 18 Dec 2019 11:54
 Operator : JC/SP
 Sample : K6249-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

Quant Time: Dec 18 16:47:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	563073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	862457	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	772517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	333671	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	313395	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
35) Dibromofluoromethane	5.49	113	264642	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
50) Toluene-d8	8.71	98	1022761	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.14	95	346854	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	

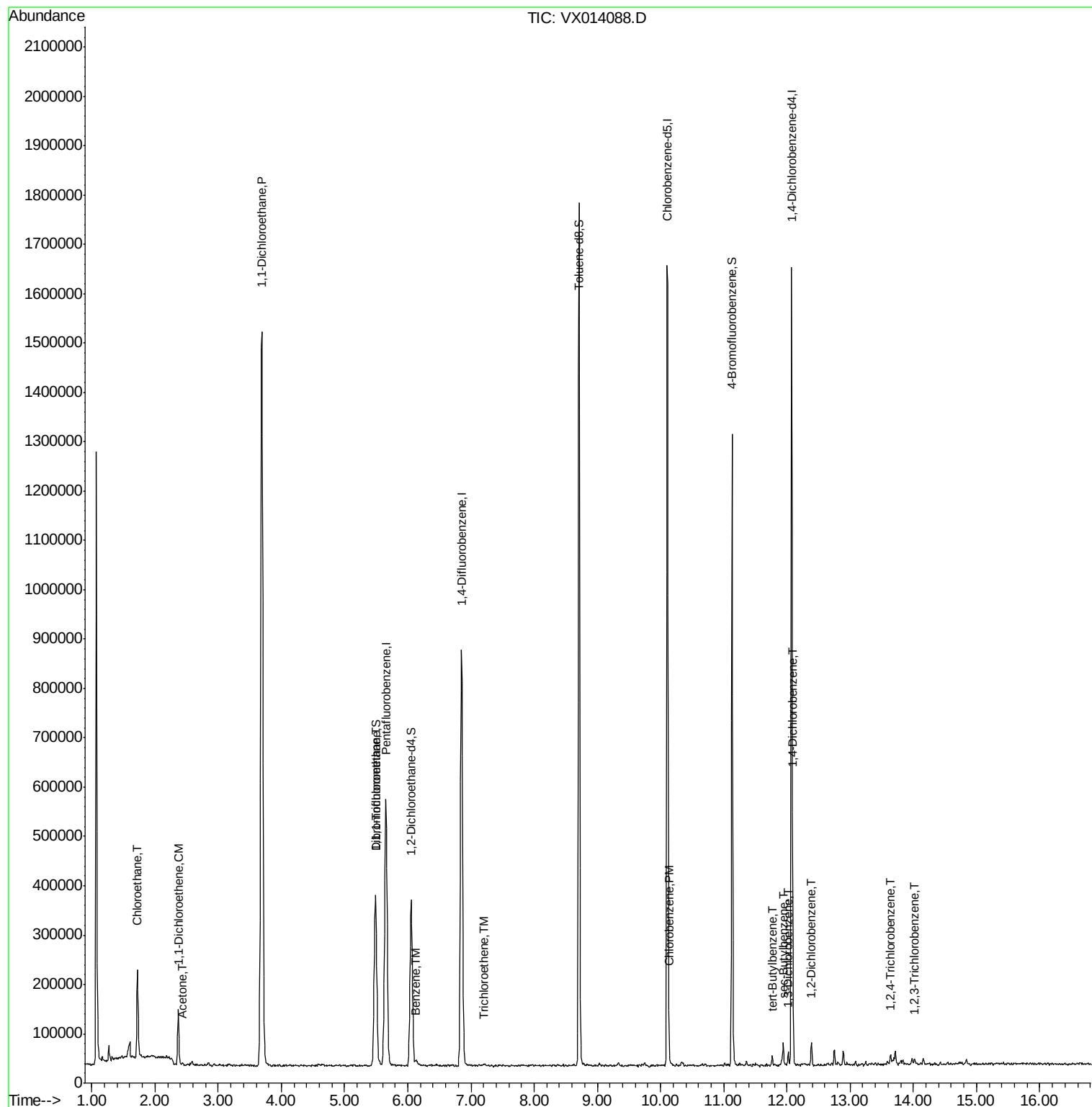
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	120407	27.349	ug/l	92
12) 1,1-Dichloroethene	2.37	96	36524	6.743	ug/l	98
16) Acetone	2.43	43	5889	1.421	ug/l	96
24) 1,1-Dichloroethane	3.69	63	1736055	161.917	ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	45450	5.247	ug/l	99
40) Benzene	6.14	78	11507	0.473	ug/l	96
44) Trichloroethene	7.21	130	1875	0.279	ug/l	68
65) Chlorobenzene	10.14	112	9570	0.583	ug/l	97
83) tert-Butylbenzene	11.76	119	8450	0.439	ug/l	82
85) sec-Butylbenzene	11.94	105	26088	1.149	ug/l	80
87) 1,3-Dichlorobenzene	12.02	146	10446	0.922	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	43543	3.780	ug/l	89
91) 1,2-Dichlorobenzene	12.39	146	14334	1.257	ug/l	91
93) 1,2,4-Trichlorobenzene	13.64	180	4928	0.665	ug/l #	80
96) 1,2,3-Trichlorobenzene	14.01	180	2806	0.384	ug/l #	59

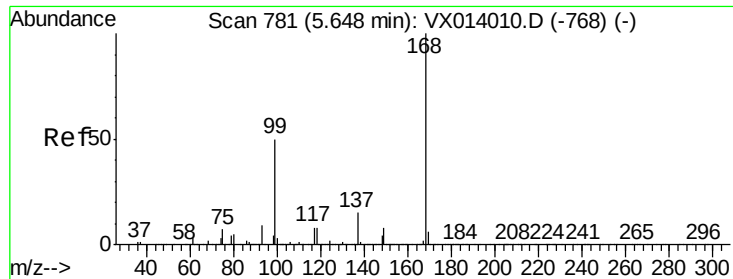
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

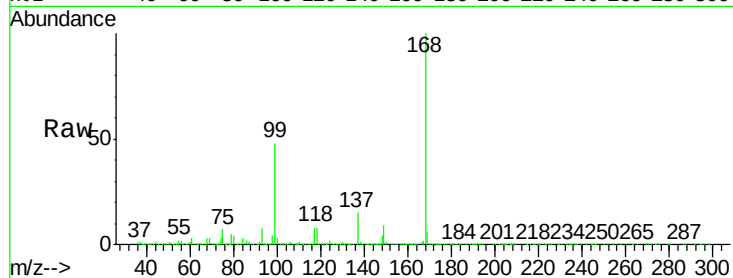
SA-PZ190I-20191208

Tot Ion:168 Resp: 563073

Ion Ratio Lower Upper

168 100

99 48.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

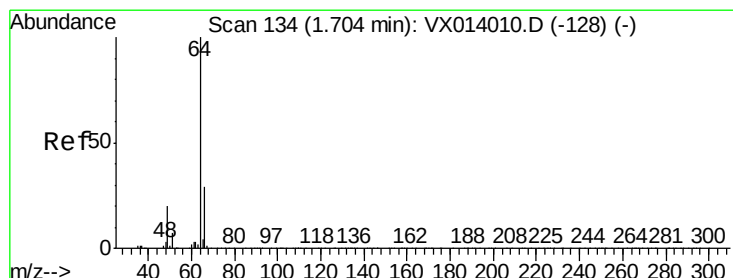
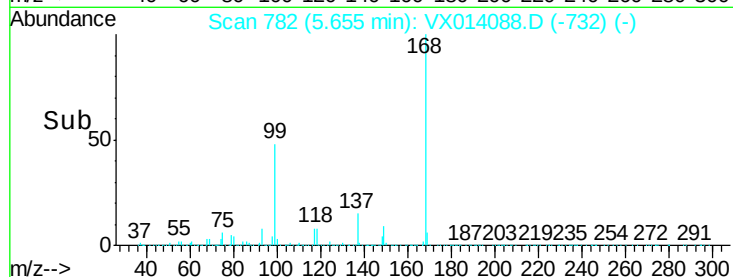
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 27.349 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX014088.D

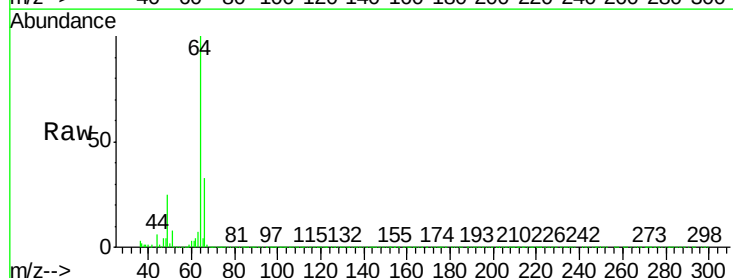
Acq: 18 Dec 2019 11:54

Tgt Ion: 64 Resp: 120407

Ion Ratio Lower Upper

64 100

66 33.4 23.4 35.2



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

100000

80000

60000

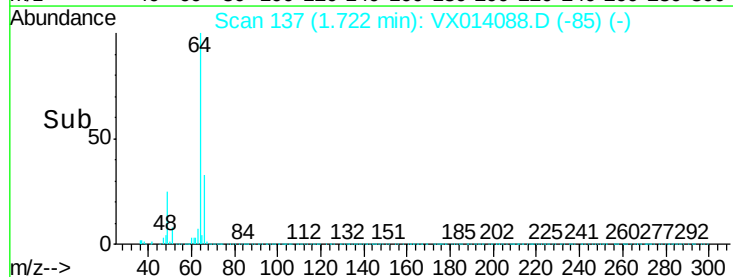
40000

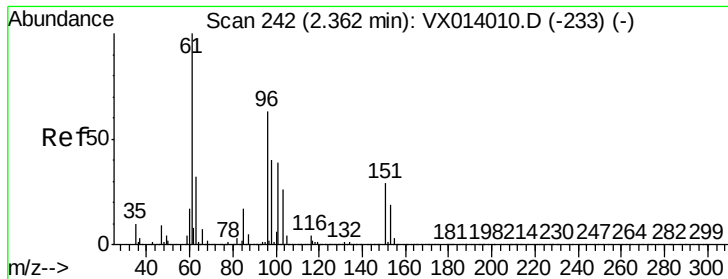
20000

0

1.65 1.70 1.75 1.80

Time-->





#12

1,1-Dichloroethene

Concen: 6.743 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ190I-20191208

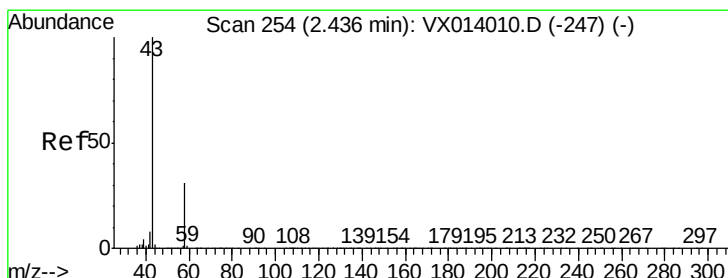
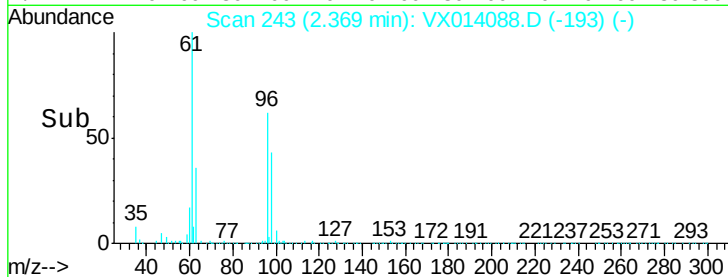
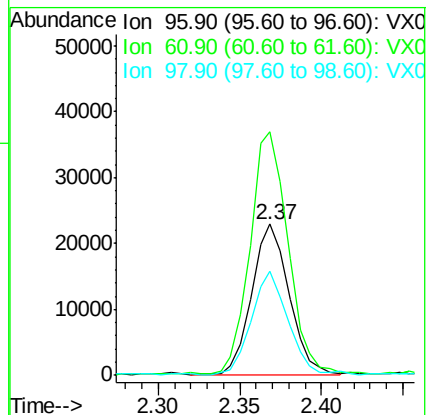
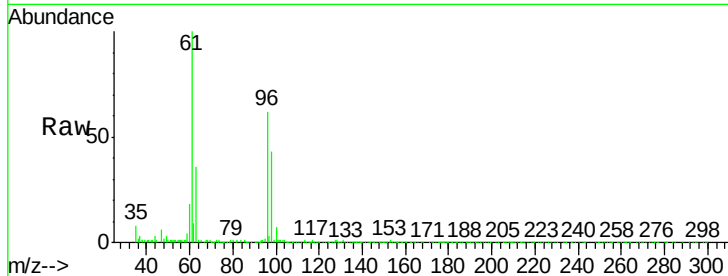
Tot Ion: 96 Resp: 36524

Ion Ratio Lower Upper

96 100

61 160.2 127.9 191.9

98 68.1 50.5 75.7



#16

Acetone

Concen: 1.421 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014088.D

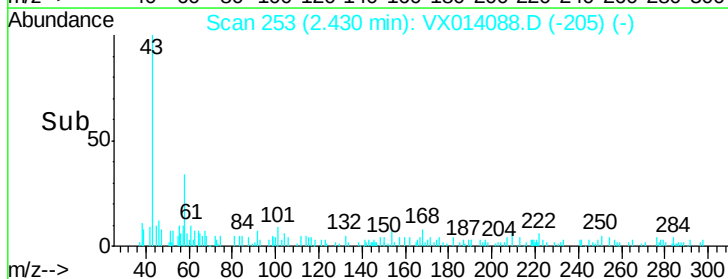
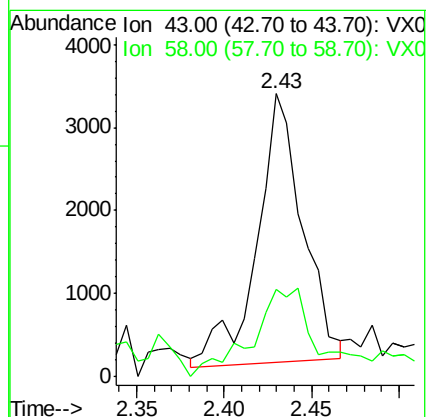
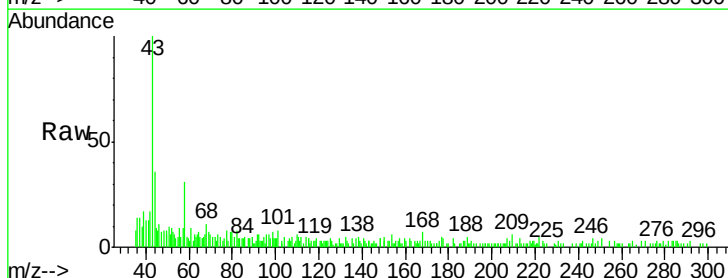
Acq: 18 Dec 2019 11:54

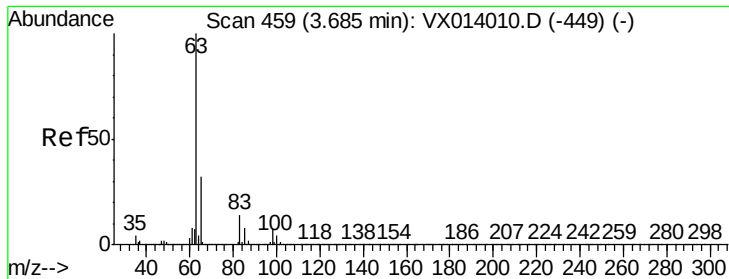
Tgt Ion: 43 Resp: 5889

Ion Ratio Lower Upper

43 100

58 33.0 24.9 37.3





#24

1,1-Dichloroethane

Concen: 161.917 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ190I-20191208

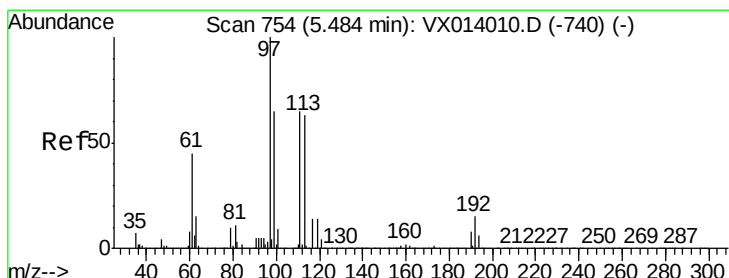
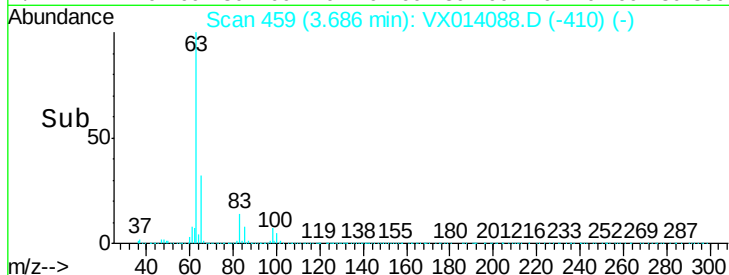
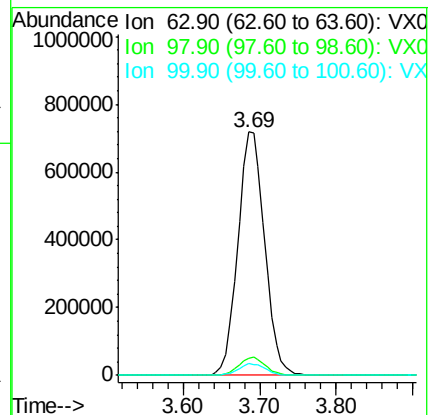
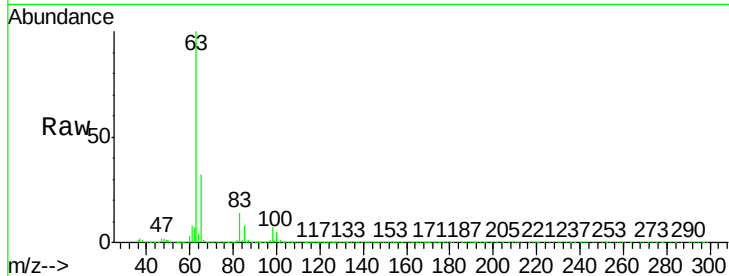
Tot Ion: 63 Resp: 1736055

Ion Ratio Lower Upper

63 100

98 7.0 3.6 10.8

100 4.7 2.3 6.8



#32

1,1,1-Trichloroethane

Concen: 5.247 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

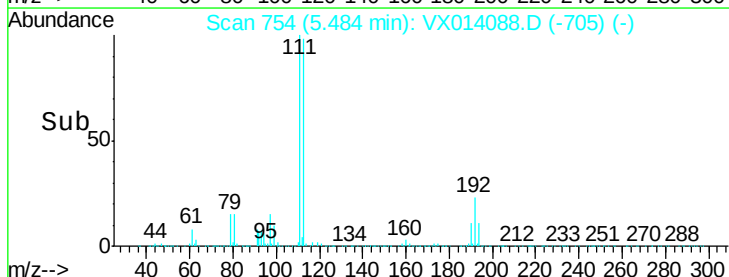
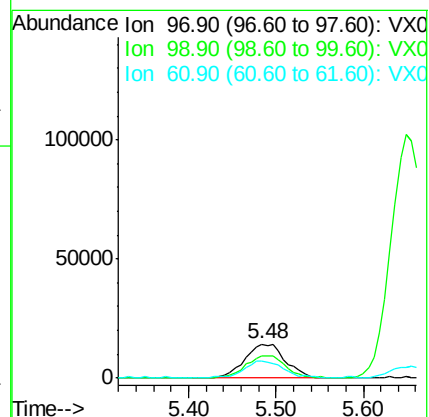
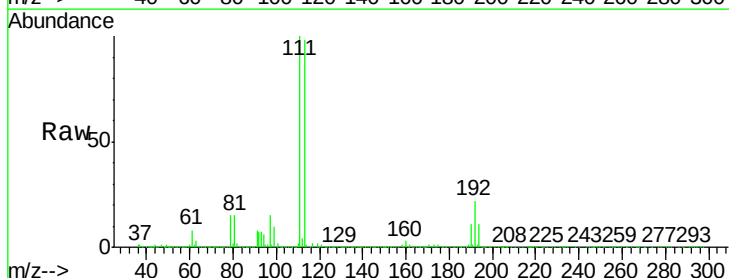
Tgt Ion: 97 Resp: 45450

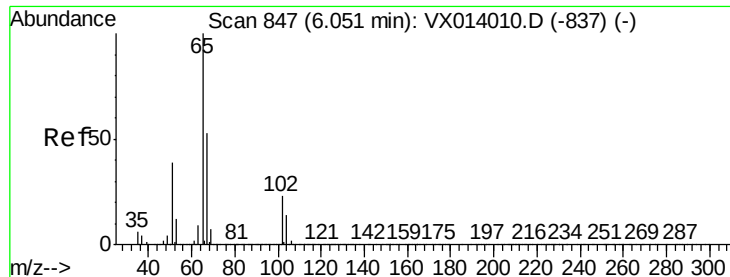
Ion Ratio Lower Upper

97 100

99 64.8 52.0 78.0

61 47.6 36.7 55.1

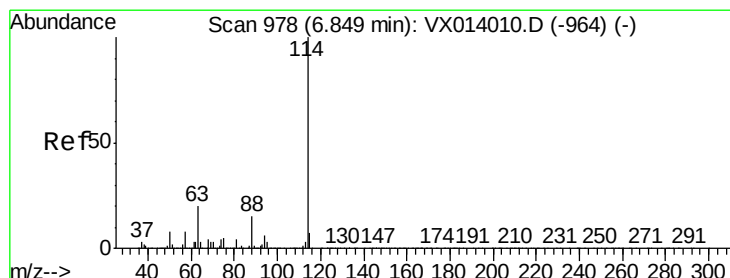
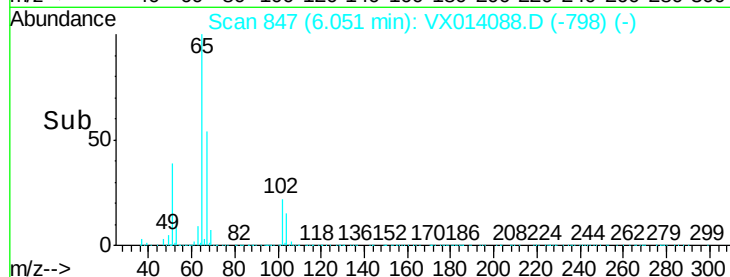
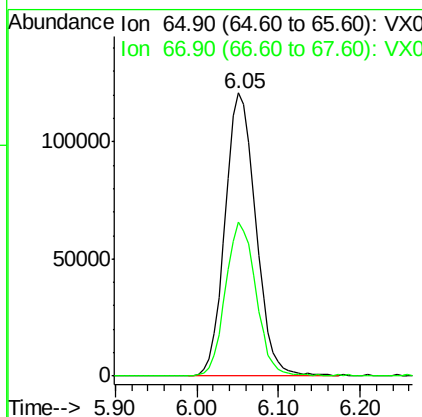
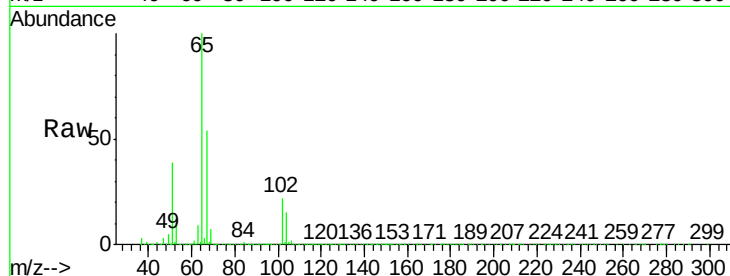




#33
 1,2-Dichloroethane-d4
 Concen: 49.109 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

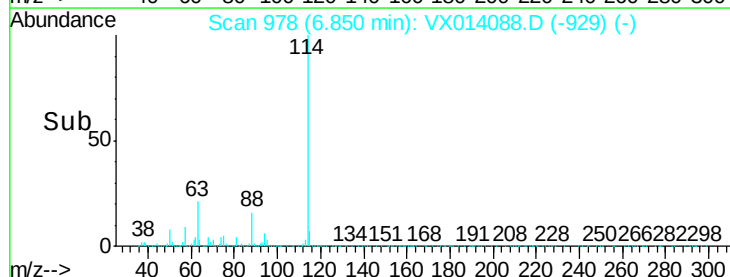
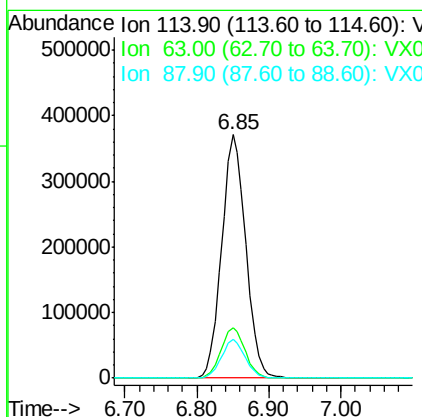
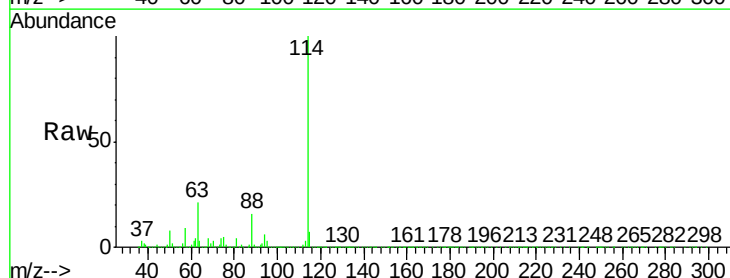
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

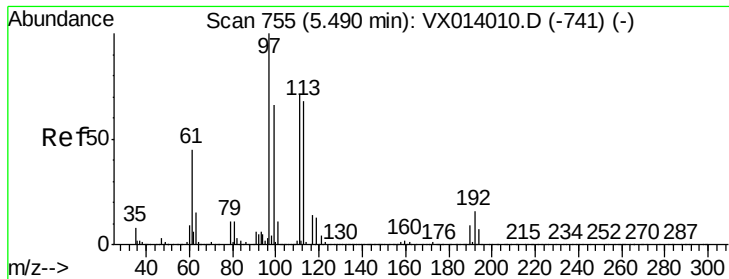
Tot Ion: 65 Resp: 313395
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

Tgt Ion: 114 Resp: 862457
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.0 0.0 30.4

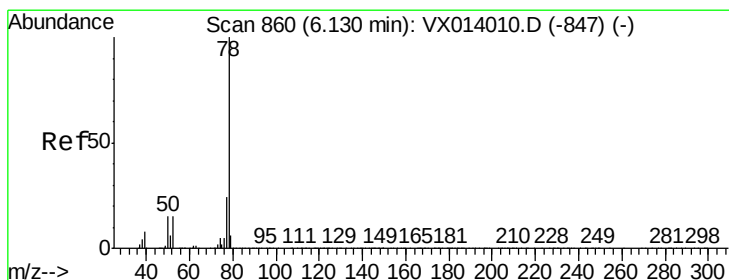
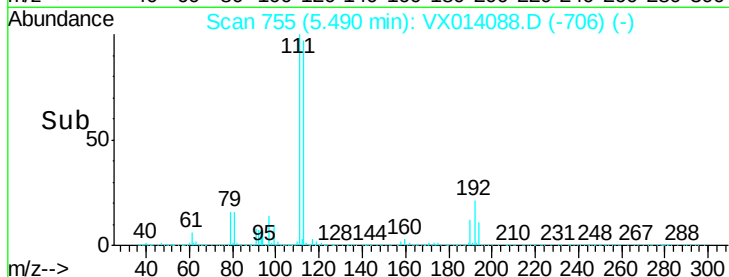
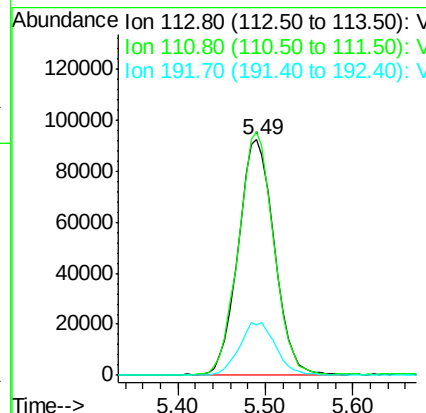
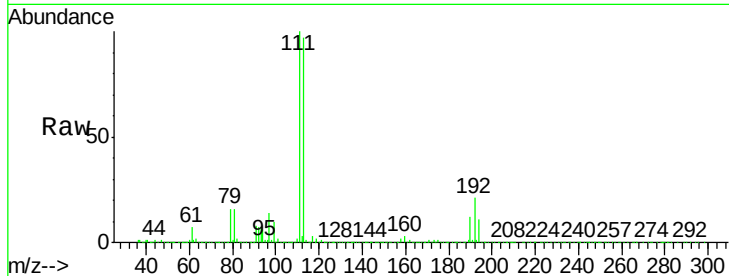




#35
 Dibromofluoromethane
 Concen: 50.477 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

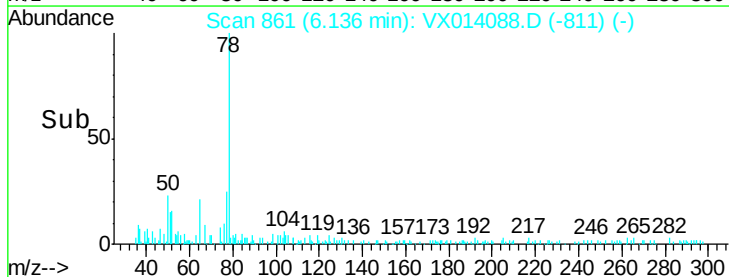
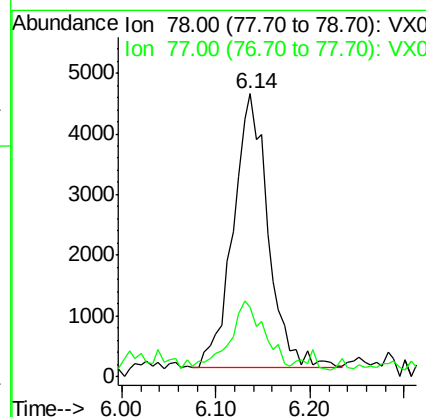
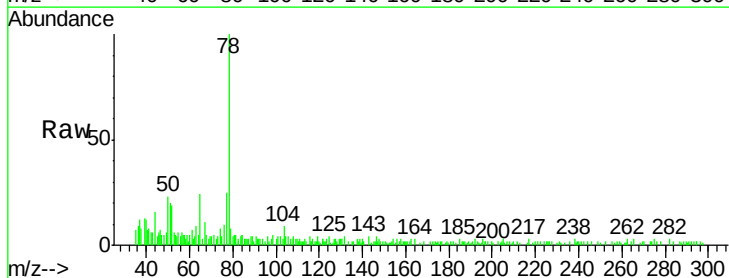
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ1901-20191208

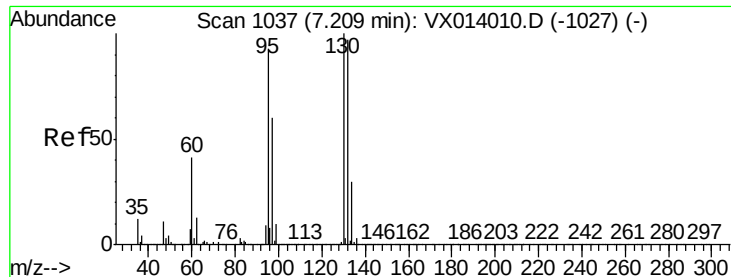
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.0	123.0
192	22.9	19.3	28.9



#40
 Benzene
 Concen: 0.473 ug/l
 RT: 6.14 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.8	28.2





#44

Trichloroethene

Concen: 0.279 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

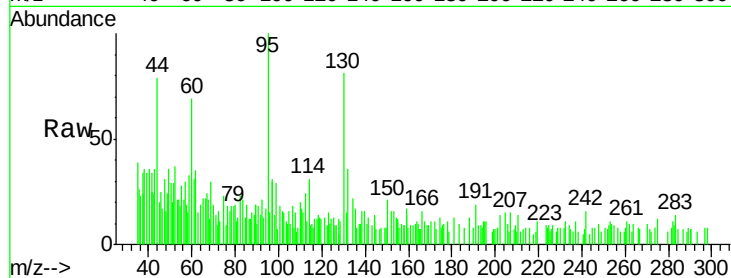
SA-PZ190I-20191208

Tot Ion:130 Resp: 1875

Ion Ratio Lower Upper

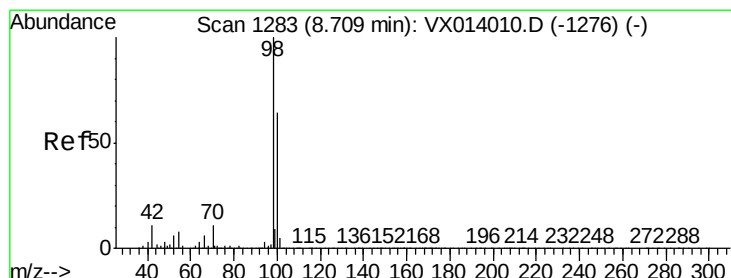
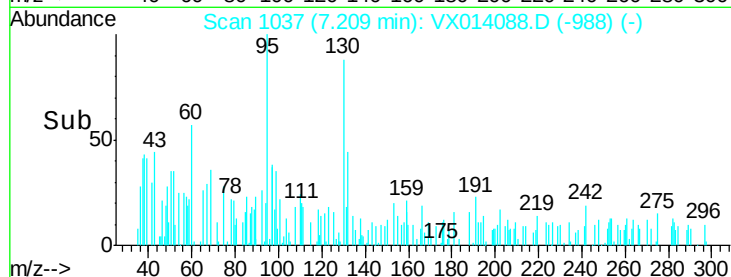
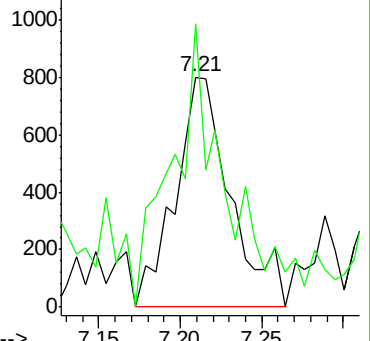
130 100

95 123.3 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.107 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014088.D

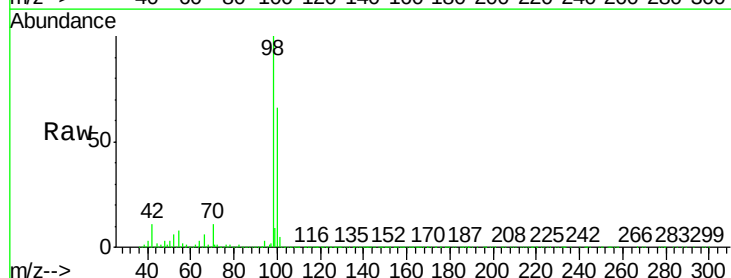
Acq: 18 Dec 2019 11:54

Tgt Ion: 98 Resp: 1022761

Ion Ratio Lower Upper

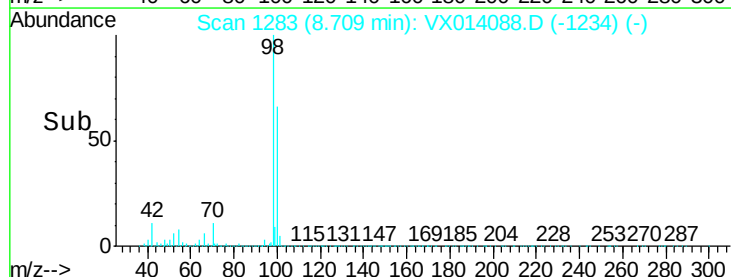
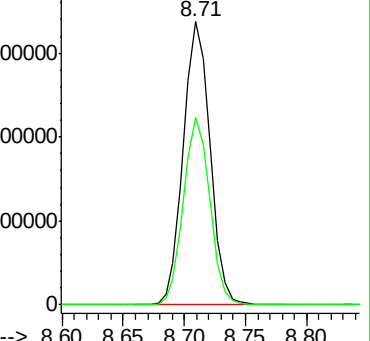
98 100

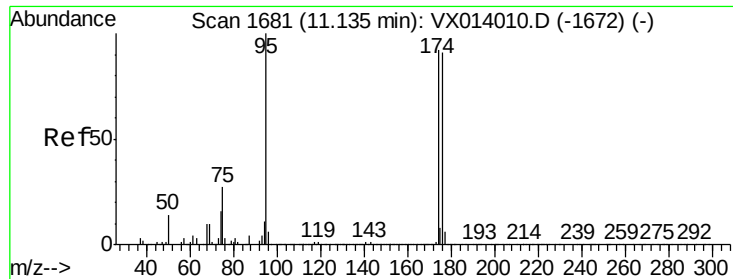
100 65.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.487 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

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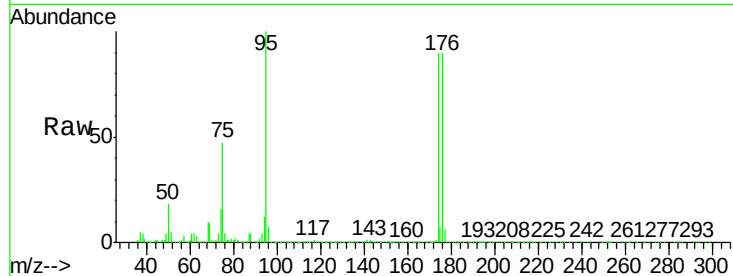
Tot Ion: 95 Resp: 346854

Ion Ratio Lower Upper

95 100

174 86.3 0.0 175.8

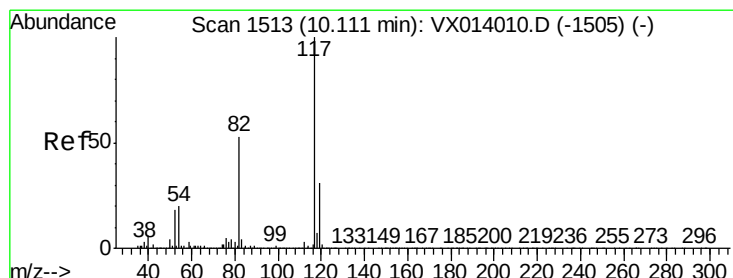
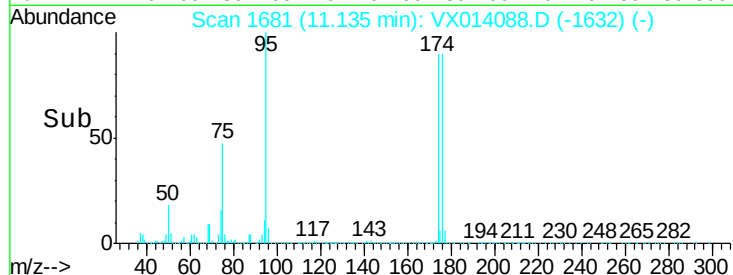
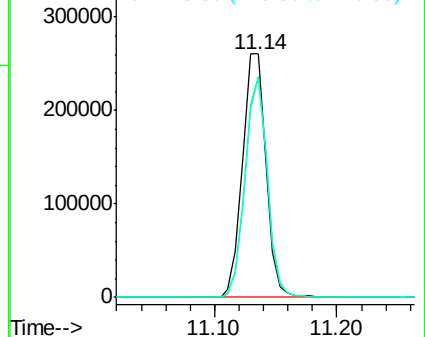
176 84.5 0.0 173.0



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# 1513

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

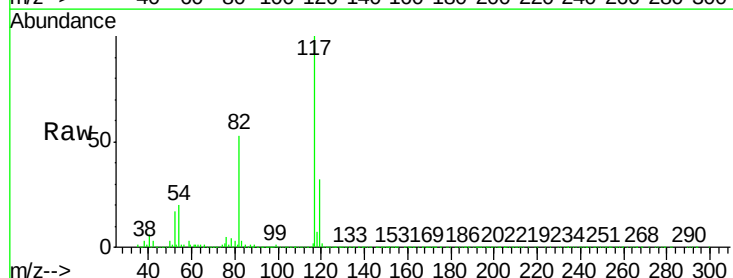
Tgt Ion: 117 Resp: 772517

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.4

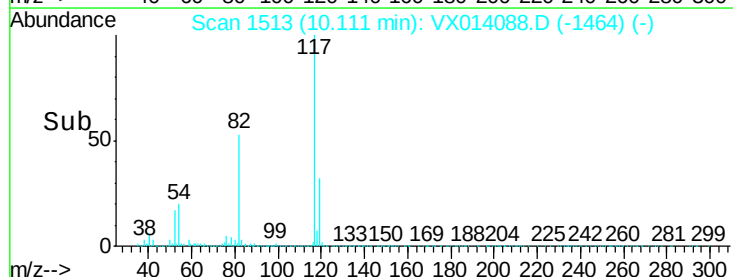
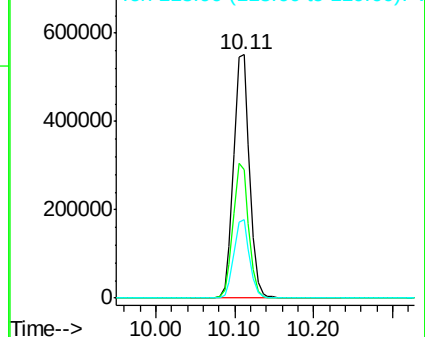
119 32.0 25.1 37.7

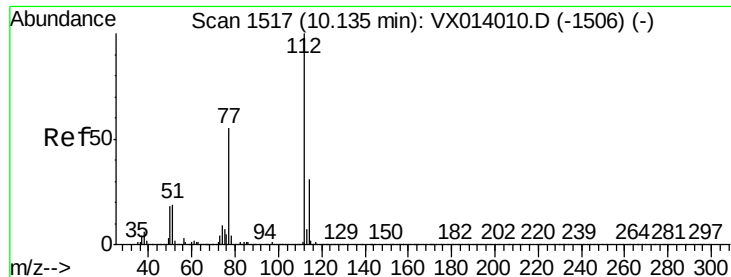


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 0.583 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

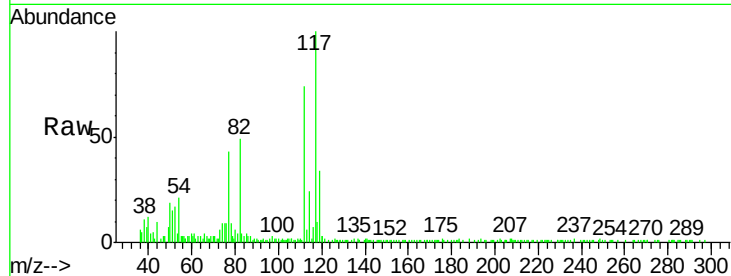
SA-PZ1901-20191208

Tot Ion:112 Resp: 9570

Ion Ratio Lower Upper

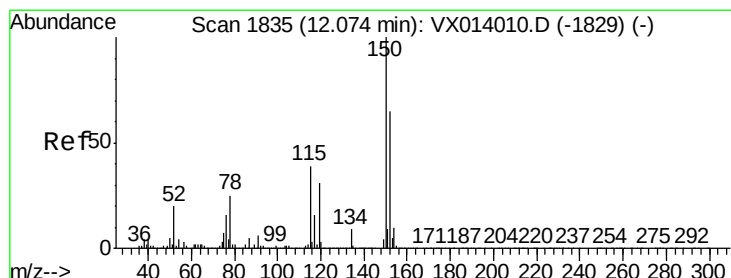
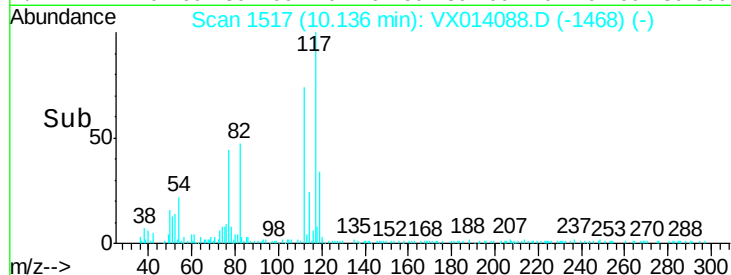
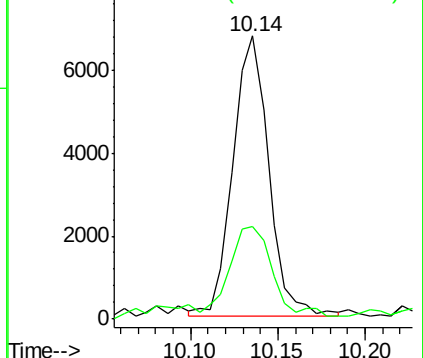
112 100

114 32.6 24.9 37.3



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

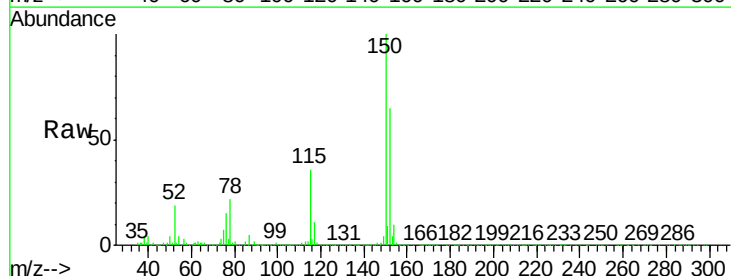
Tgt Ion:152 Resp: 333671

Ion Ratio Lower Upper

152 100

115 55.6 38.3 114.9

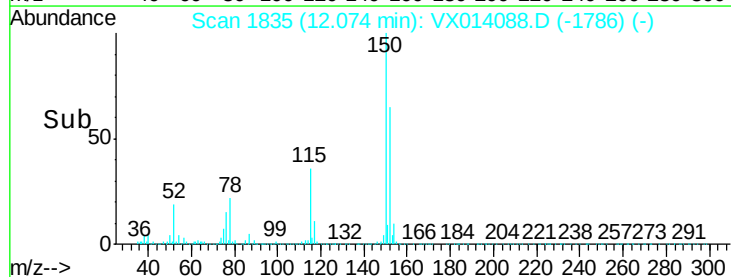
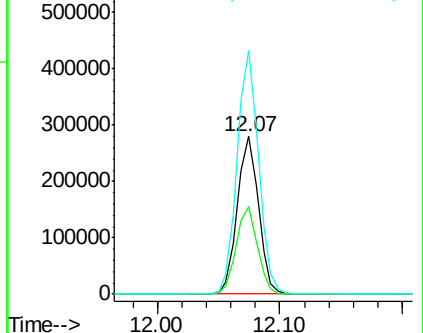
150 155.9 0.0 345.4

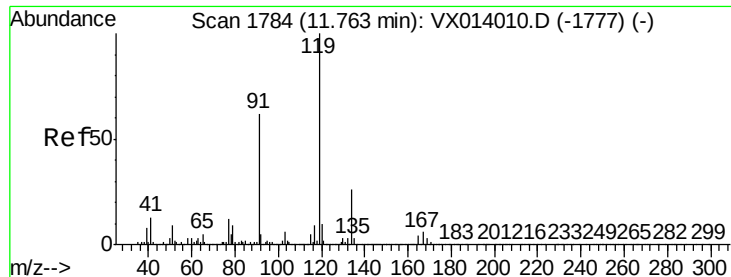


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

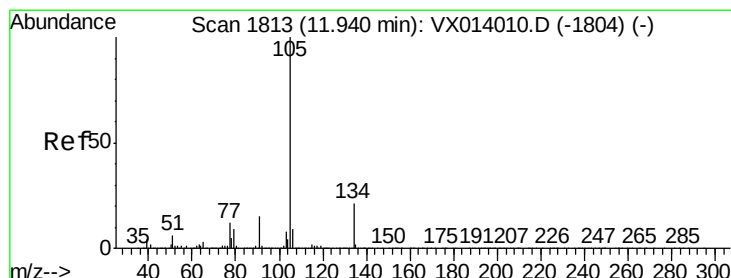
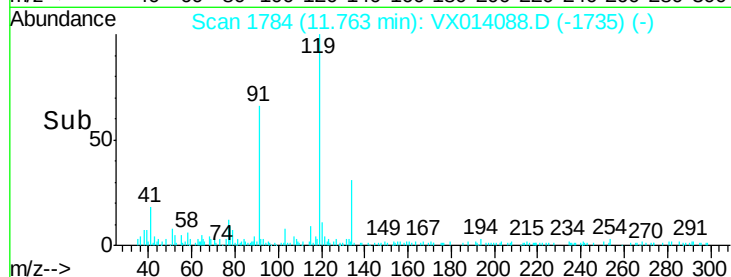
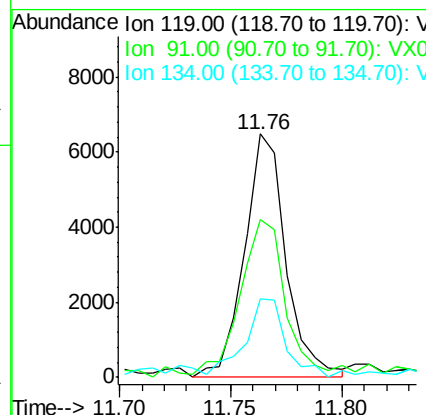
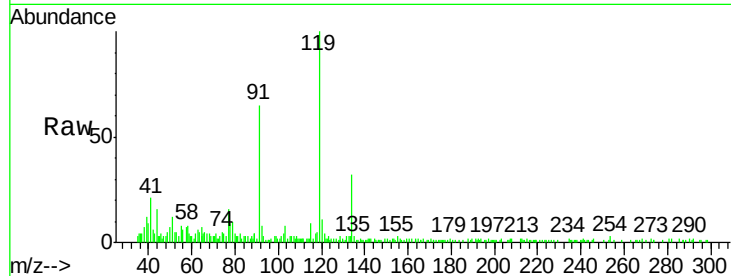




#83
tert-Butylbenzene
Concen: 0.439 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. 0.00 min
Lab File: VX014088.D
Acq: 18 Dec 2019 11:54

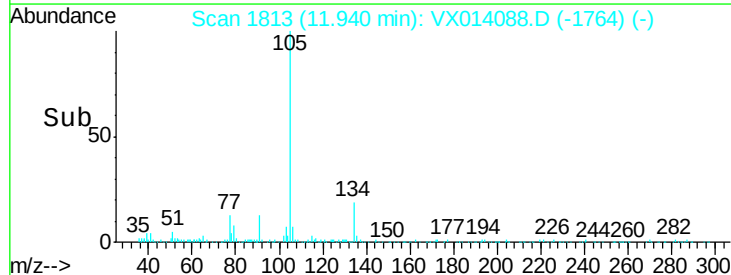
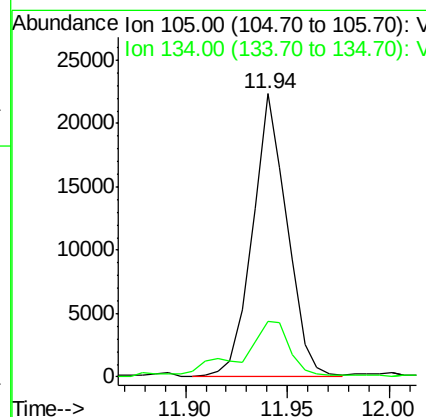
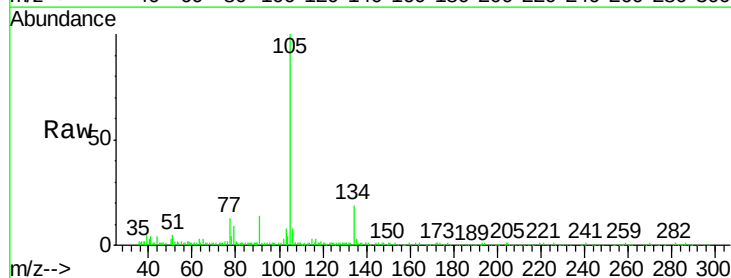
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ190I-20191208

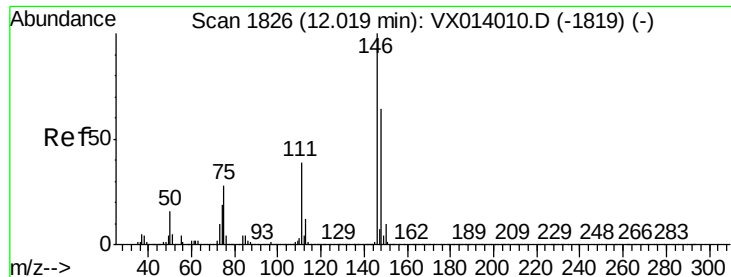
Tot Ion:119 Resp: 8450
Ion Ratio Lower Upper
119 100
91 72.2 28.5 85.6
134 30.0 12.2 36.6



#85
sec-Butylbenzene
Concen: 1.149 ug/l
RT: 11.94 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VX014088.D
Acq: 18 Dec 2019 11:54

Tgt Ion:105 Resp: 26088
Ion Ratio Lower Upper
105 100
134 30.0 10.4 31.1

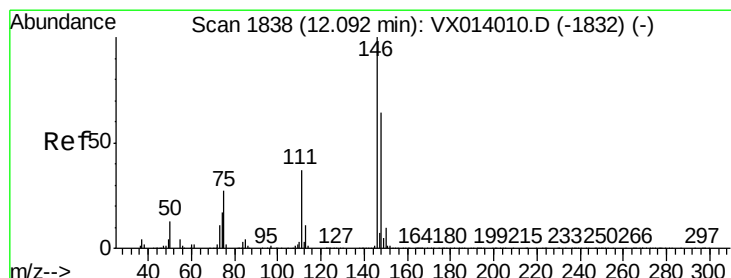
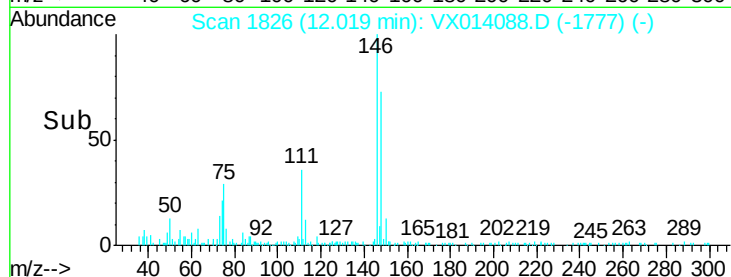
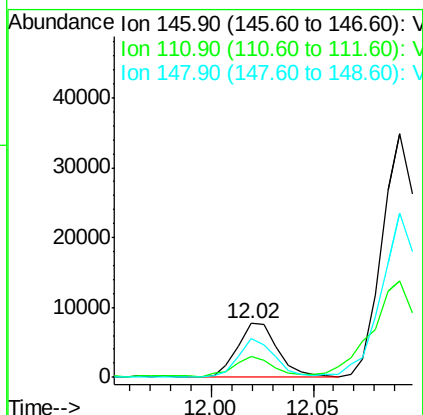
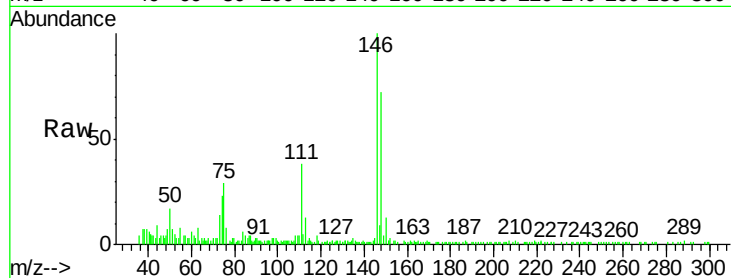




#87
 1,3-Dichlorobenzene
 Concen: 0.922 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

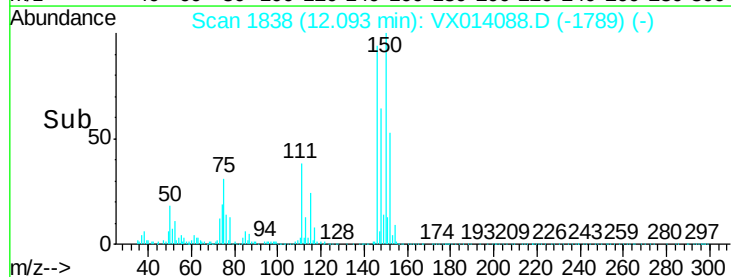
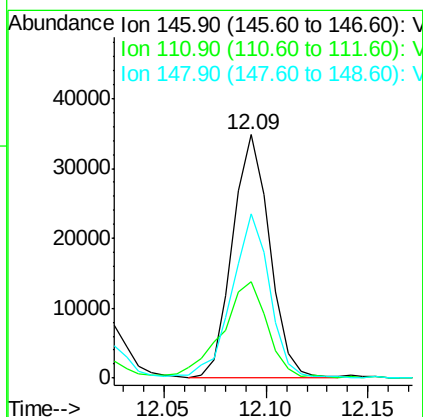
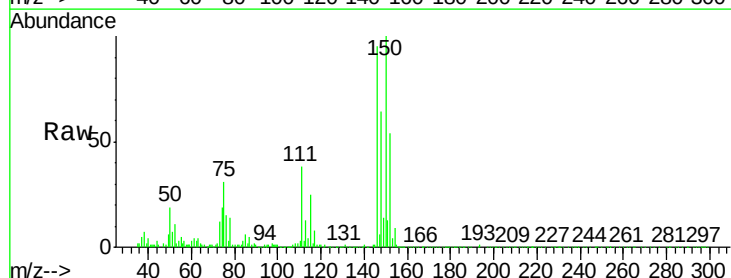
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

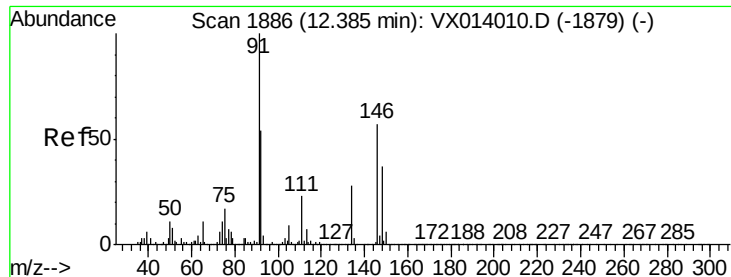
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	19.1	57.1
148	65.7	32.3	96.9



#88
 1,4-Dichlorobenzene
 Concen: 3.780 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.5	18.7	56.1
148	69.4	31.9	95.9





#91

1,2-Dichlorobenzene

Concen: 1.257 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ190I-20191208

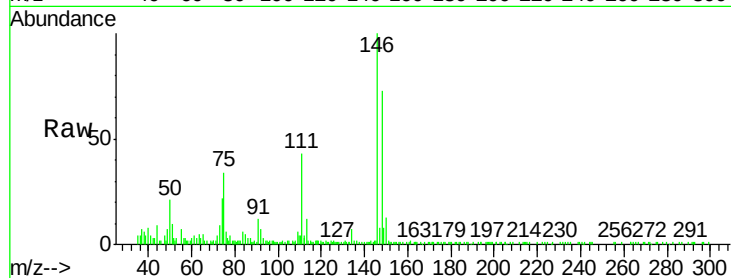
Tot Ion:146 Resp: 14334

Ion Ratio Lower Upper

146 100

111 43.3 19.7 59.1

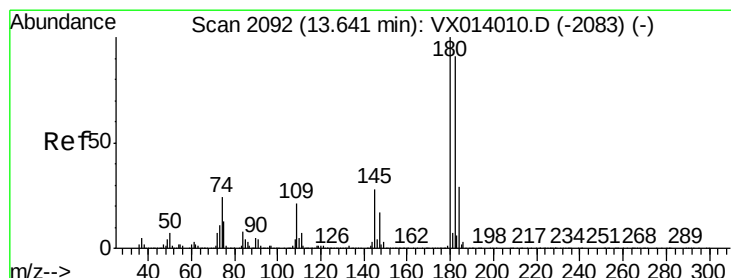
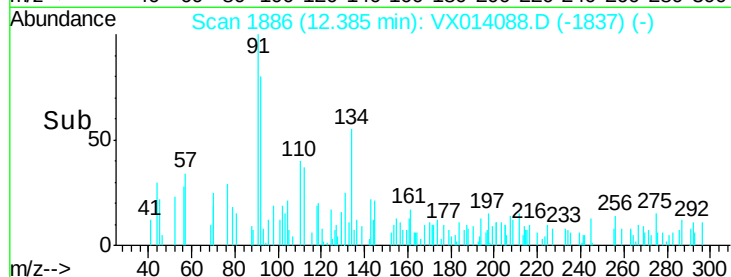
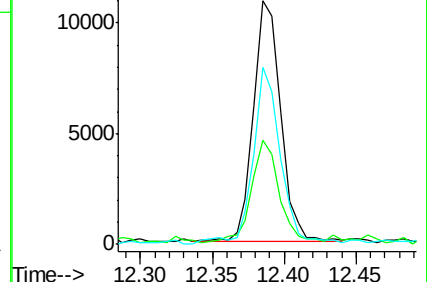
148 73.1 32.1 96.5



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



#93

1,2,4-Trichlorobenzene

Concen: 0.665 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014088.D

Acq: 18 Dec 2019 11:54

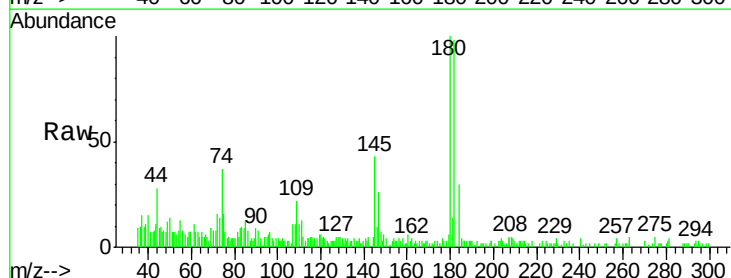
Tgt Ion:180 Resp: 4928

Ion Ratio Lower Upper

180 100

182 104.7 46.6 139.8

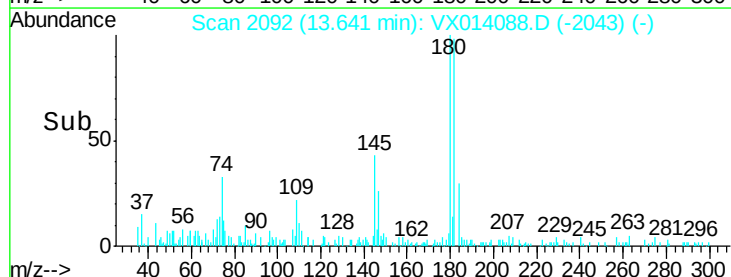
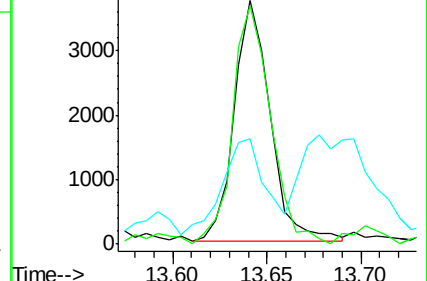
145 52.9 14.2 42.6#

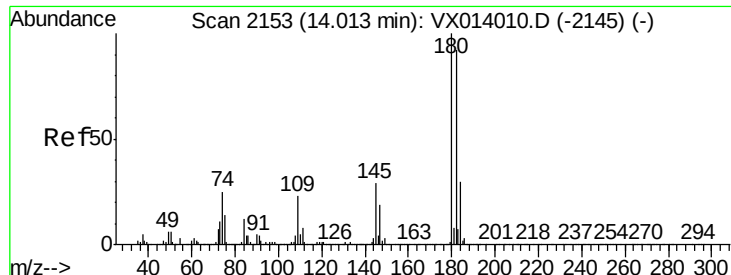


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

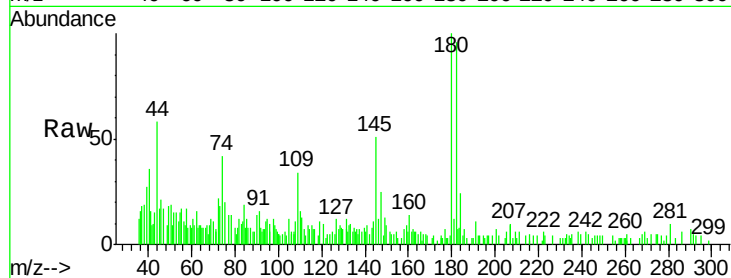




#96
 1,2,3-Trichlorobenzene
 Concen: 0.384 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014088.D
 Acq: 18 Dec 2019 11:54

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

Tot Ion	Ratio	Lower	Upper
180	100		
182	108.6	46.8	140.3
145	95.3	14.8	44.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

