

Data File : VX013954.D
Acq On : 11 Dec 2019 19:28
Operator : JC/SP
Sample : K6249-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

Quant Time: Dec 12 04:04:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	529392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	815179	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	721587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	306257	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	298730	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
35) Dibromofluoromethane	5.49	113	243396	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	8.71	98	964667	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.14	95	312856	44.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.38%	

Target Compounds

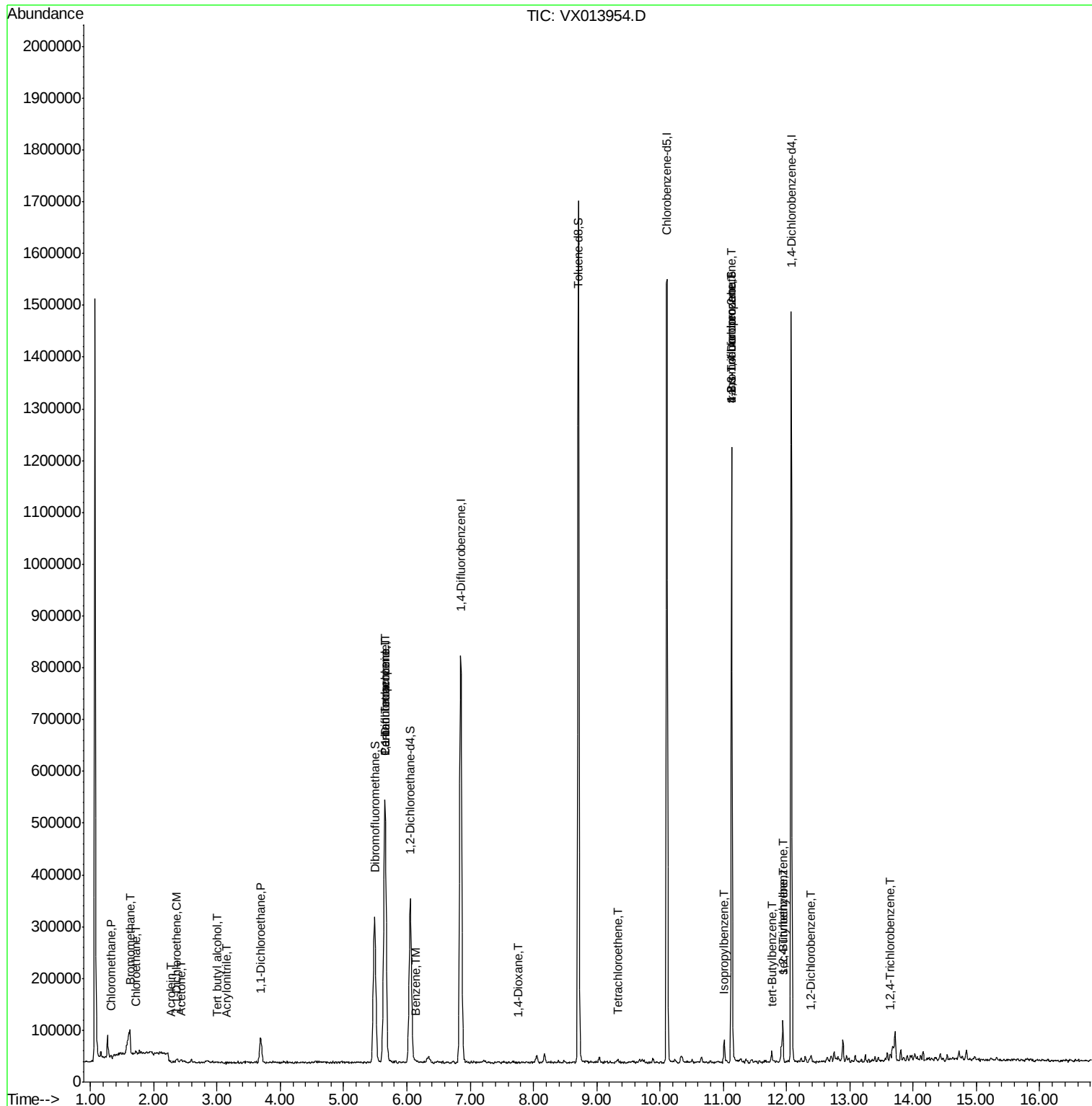
						Qvalue
3) Chloromethane	1.31	50	2776	0.420	ug/l	96
5) Bromomethane	1.63	94	1506	0.301	ug/l	96
6) Chloroethane	1.72	64	2186	0.516	ug/l	95
11) Tert butyl alcohol	3.01	59	476	0.314	ug/l #	74
12) 1,1-Dichloroethene	2.37	96	3463	0.687	ug/l	89
13) Acrolein	2.28	56	494	6.479	ug/l #	1
15) Acrylonitrile	3.15	53	1465	0.468	ug/l #	24
16) Acetone	2.44	43	7638	2.518	ug/l #	79
24) 1,1-Dichloroethane	3.69	63	58180	6.045	ug/l	98
36) 1,1-Dichloropropene	5.65	75	35737	4.829	ug/l #	50
38) Carbon Tetrachloride	5.65	117	47649	6.983	ug/l #	16
40) Benzene	6.14	78	6200	0.275	ug/l #	52
49) 1,4-Dioxane	7.75	88	171	1.150	ug/l #	1
64) Tetrachloroethene	9.34	164	1334	0.248	ug/l #	89
73) Isopropylbenzene	11.01	105	24956	1.162	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	154850	22.480	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	154850	61.502	ug/l #	11
83) tert-Butylbenzene	11.76	119	9666	0.540	ug/l	85
84) 1,2,4-Trimethylbenzene	11.94	105	48467	2.712	ug/l #	31
85) sec-Butylbenzene	11.94	105	48467	2.371	ug/l	86
91) 1,2-Dichlorobenzene	12.38	146	4055	0.406	ug/l	84
93) 1,2,4-Trichlorobenzene	13.65	180	2569	0.369	ug/l #	54

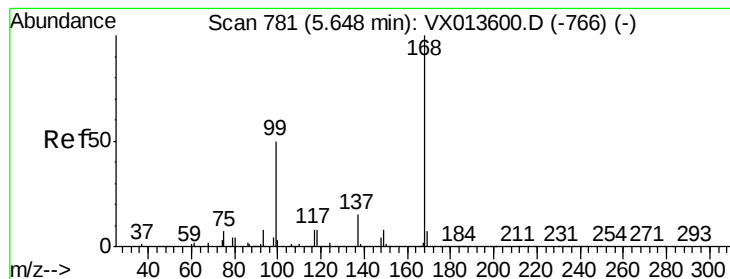
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

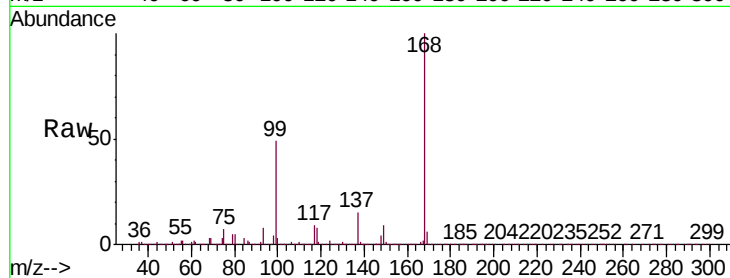
SA-PZ189I-20191208

Tgt Ion:168 Resp: 529392

Ion Ratio Lower Upper

168 100

99 49.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

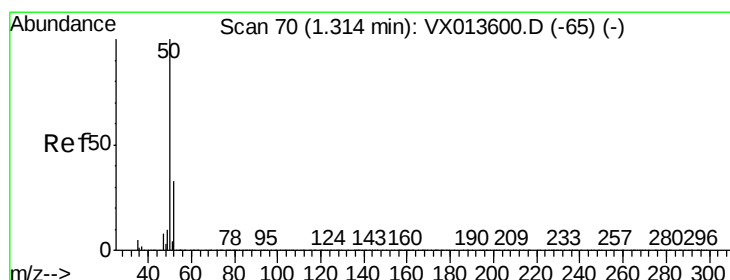
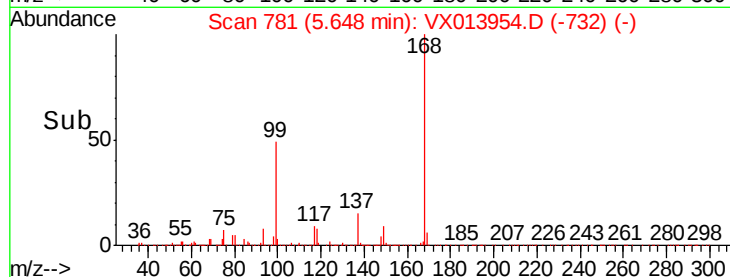
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.420 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013954.D

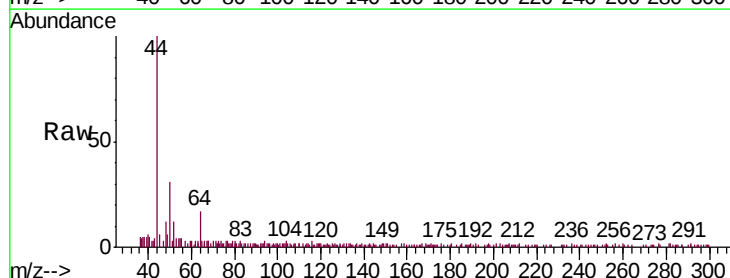
Acq: 11 Dec 2019 19:28

Tgt Ion: 50 Resp: 2776

Ion Ratio Lower Upper

50 100

52 30.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

3000

2500

2000

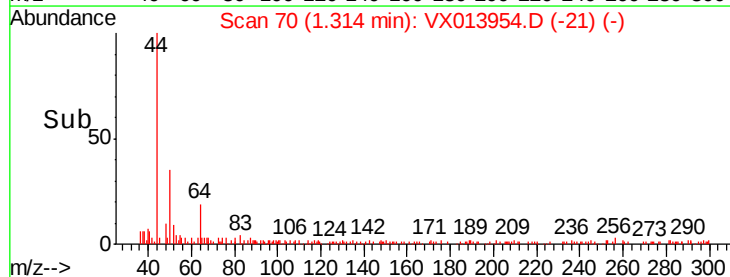
1500

1000

500

0

Time-->





#5

Bromomethane

Concen: 0.301 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

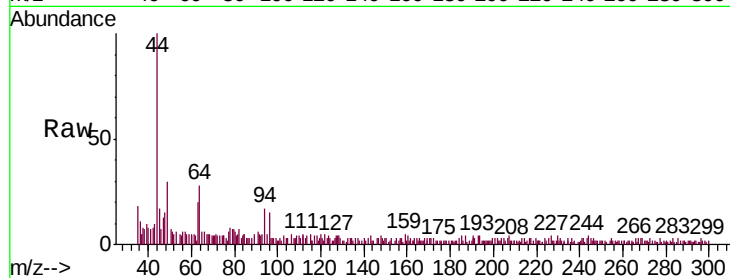
SA-PZ189I-20191208

Tgt Ion: 94 Resp: 1506

Ion Ratio Lower Upper

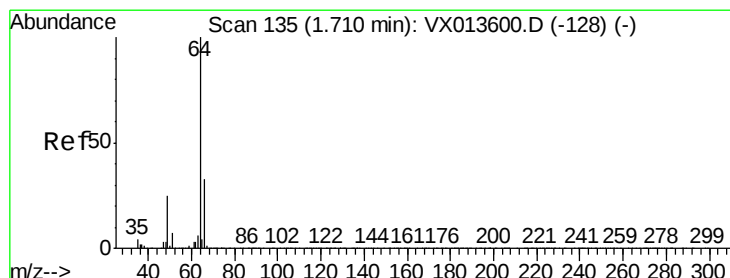
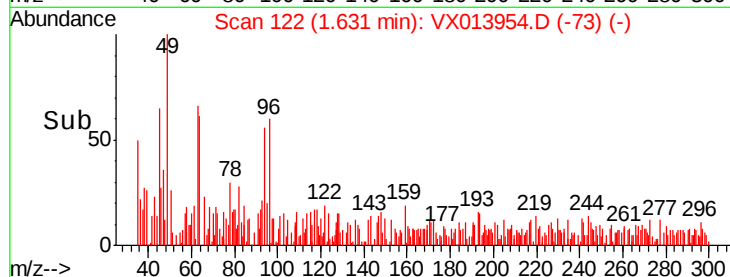
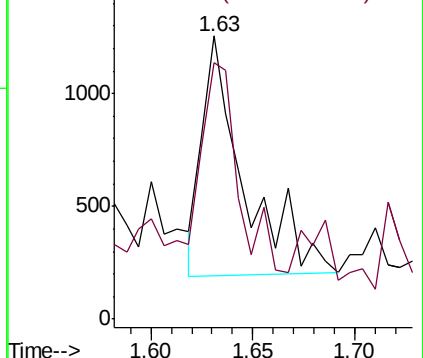
94 100

96 92.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.516 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013954.D

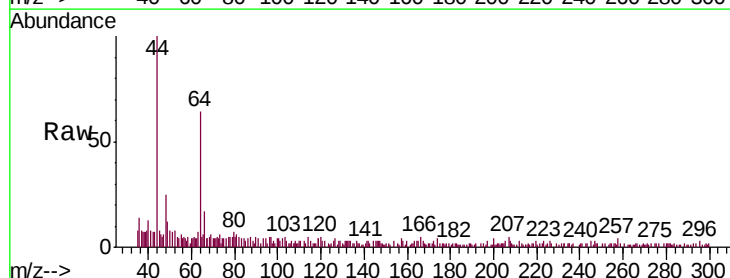
Acq: 11 Dec 2019 19:28

Tgt Ion: 64 Resp: 2186

Ion Ratio Lower Upper

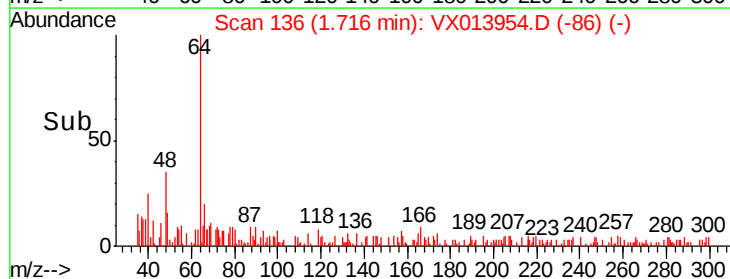
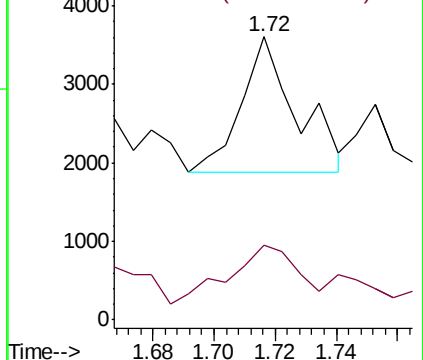
64 100

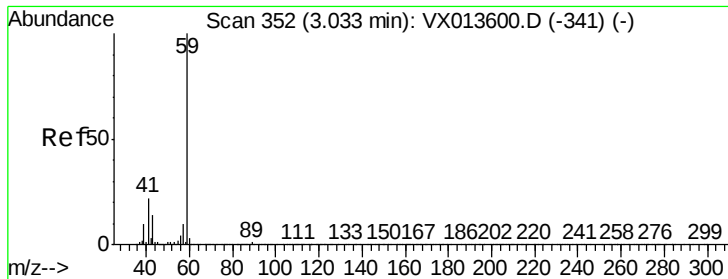
66 36.2 26.7 40.1



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

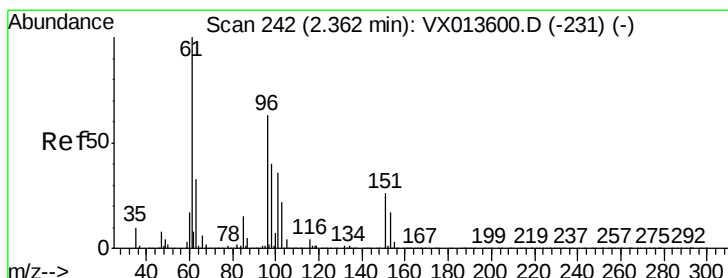
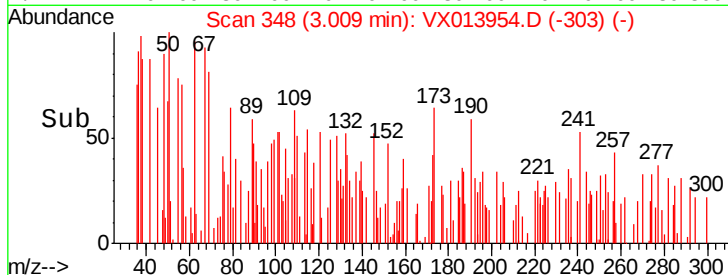
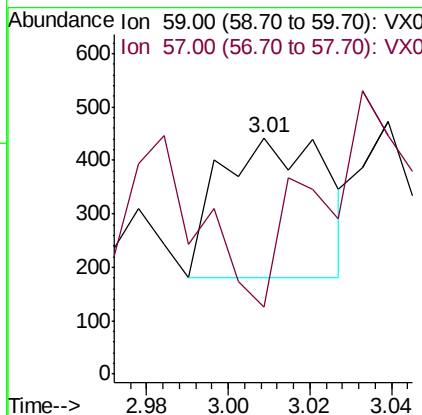
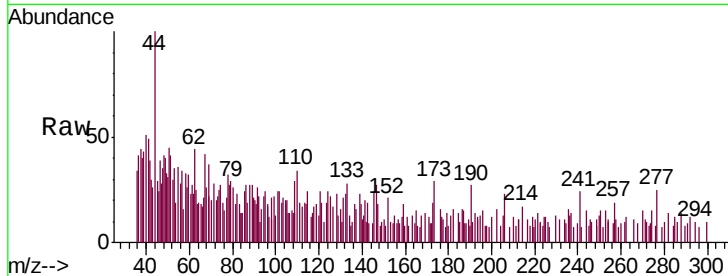




#11
Tert butyl alcohol
Concen: 0.314 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

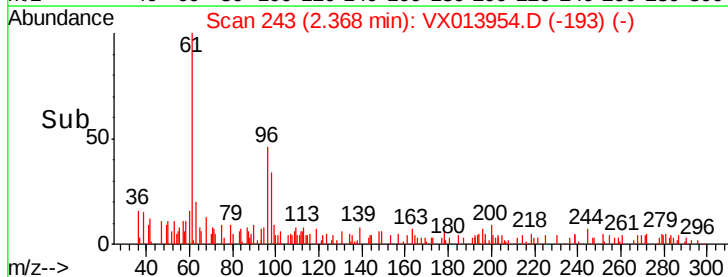
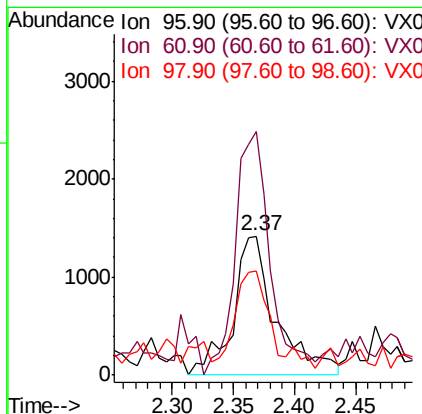
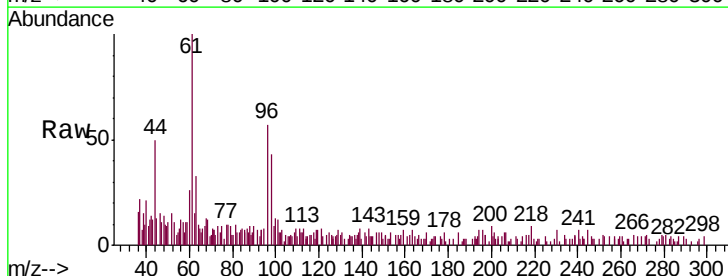
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

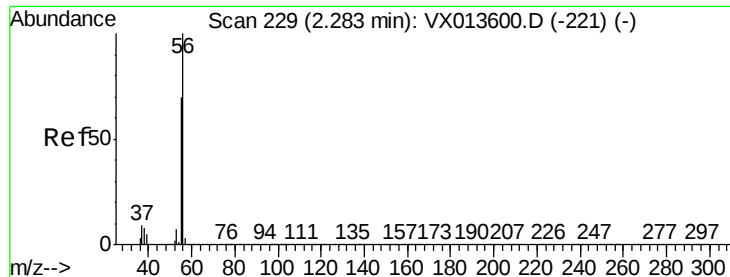
Tgt Ion: 59 Resp: 476
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.687 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

Tgt Ion: 96 Resp: 3463
Ion Ratio Lower Upper
96 100
61 176.1 126.6 190.0
98 67.2 50.6 76.0

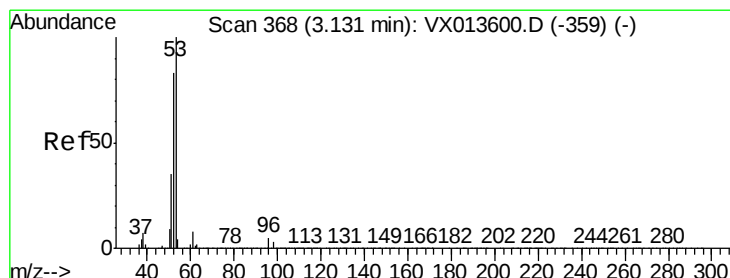
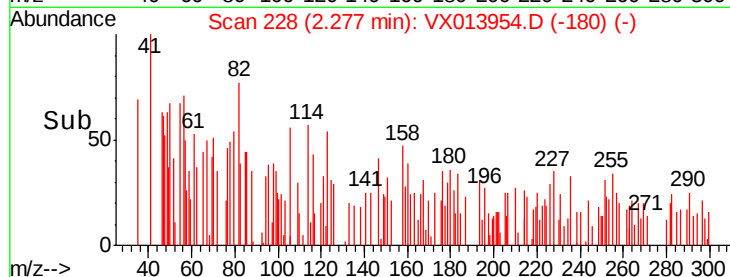
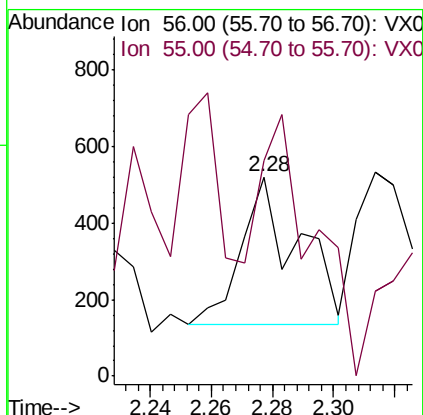
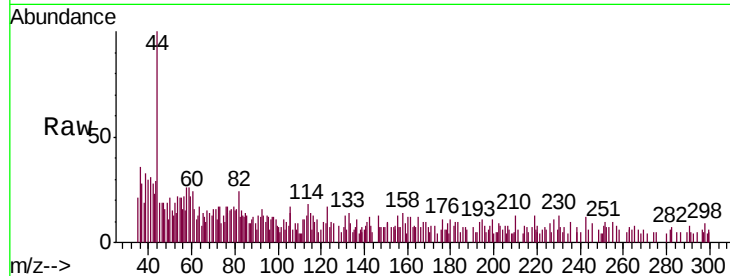




#13
Acrolein
Concen: 6.479 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

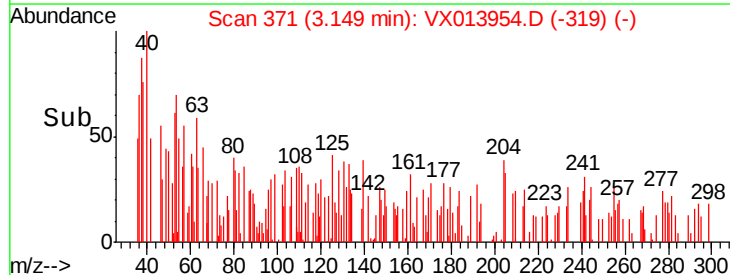
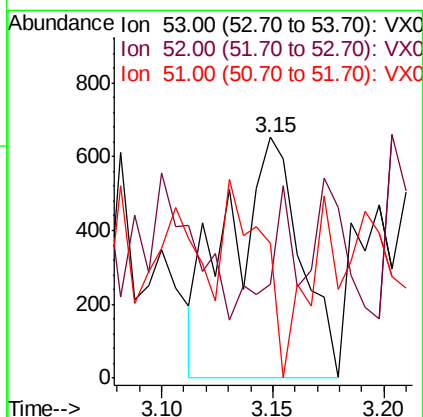
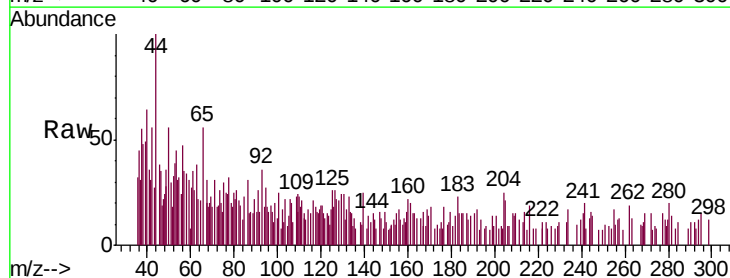
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

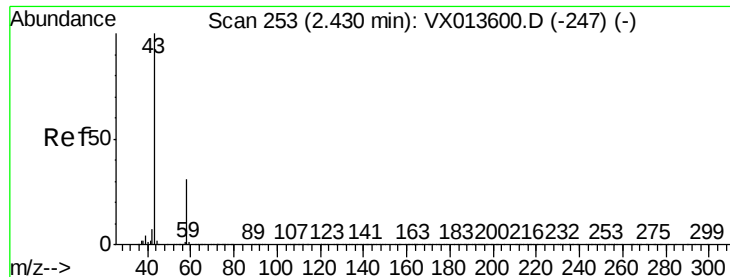
Tgt Ion: 56 Resp: 494
Ion Ratio Lower Upper
56 100
55 168.0 56.2 84.4#



#15
Acrylonitrile
Concen: 0.468 ug/l
RT: 3.15 min Scan# 371
Delta R.T. 0.02 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

Tgt Ion: 53 Resp: 1465
Ion Ratio Lower Upper
53 100
52 9.2 66.2 99.2#
51 0.0 29.0 43.6#





#16

Acetone

Concen: 2.518 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

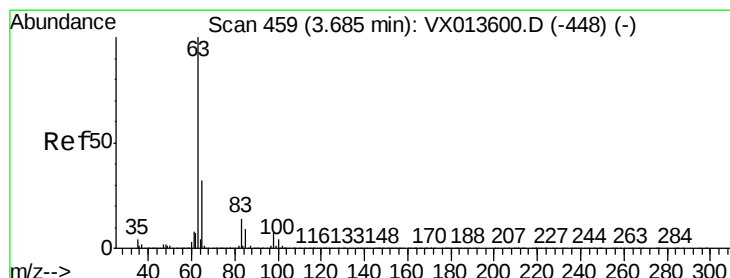
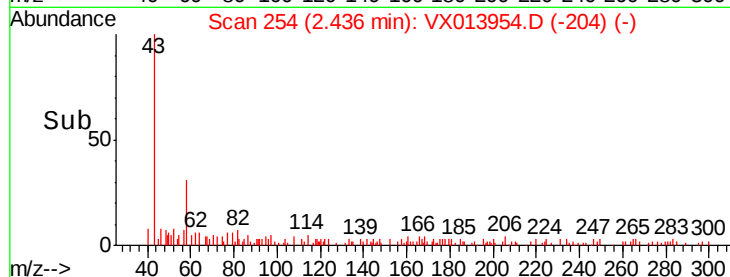
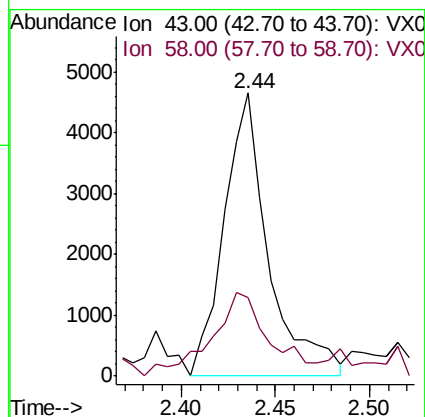
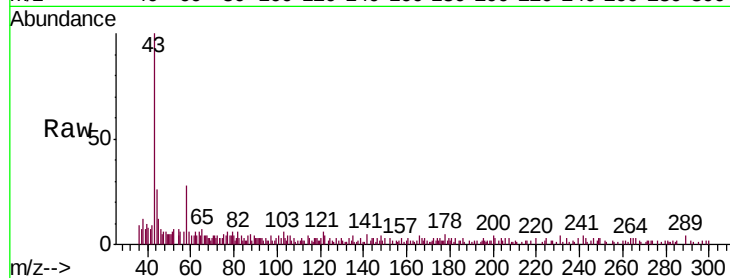
SA-PZ189I-20191208

Tgt Ion: 43 Resp: 7638

Ion Ratio Lower Upper

43 100

58 19.0 24.6 36.8#



#24

1,1-Dichloroethane

Concen: 6.045 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

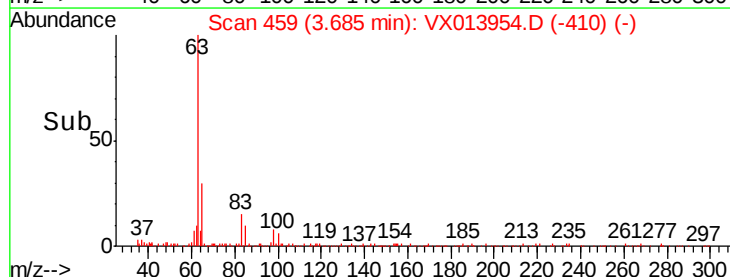
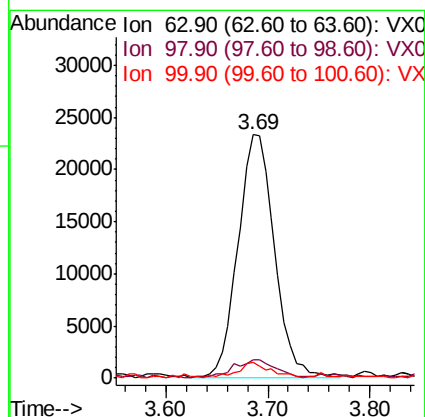
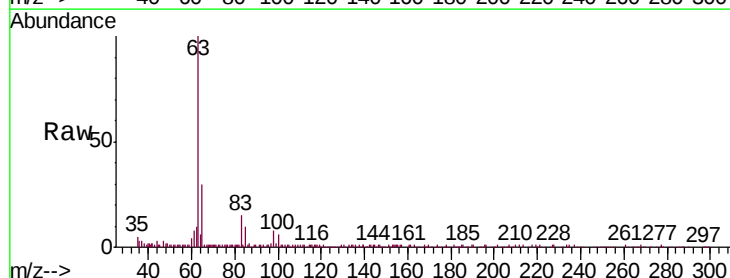
Tgt Ion: 63 Resp: 58180

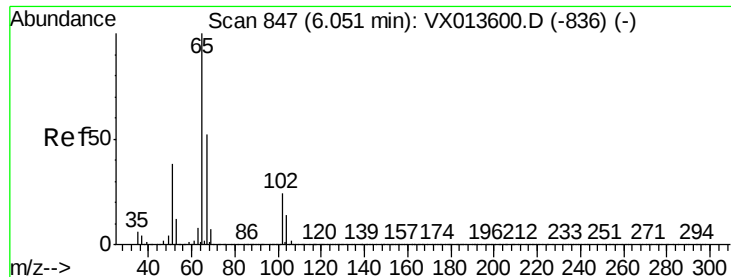
Ion Ratio Lower Upper

63 100

98 7.2 3.5 10.4

100 5.8 2.1 6.3





#33

1,2-Dichloroethane-d4

Concen: 48.613 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

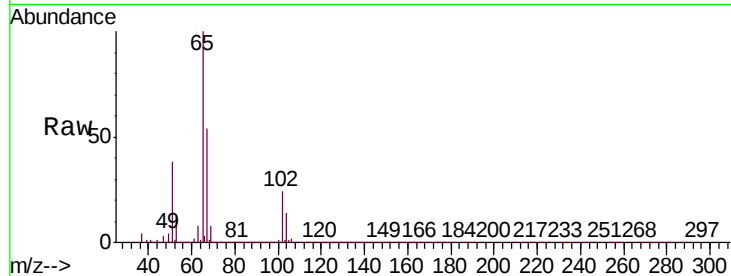
SA-PZ189I-20191208

Tgt Ion: 65 Resp: 298730

Ion Ratio Lower Upper

65 100

67 53.5 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

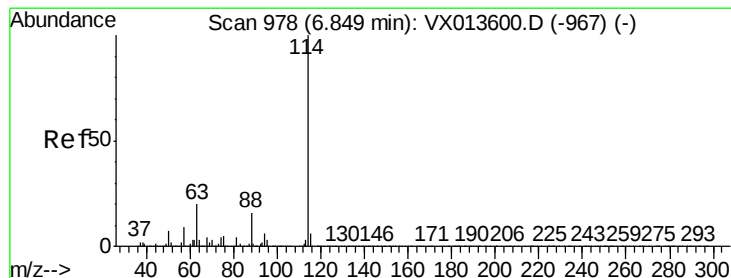
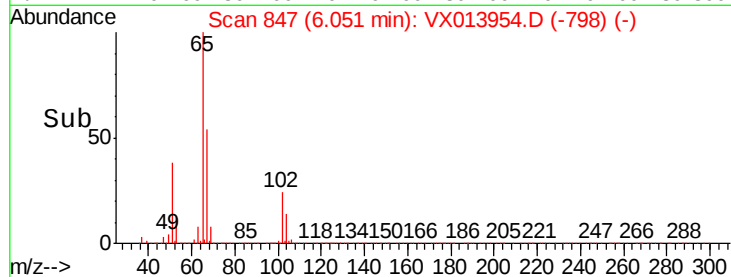
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

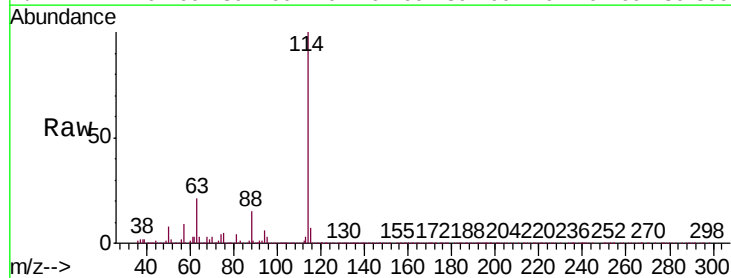
Tgt Ion: 114 Resp: 815179

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.3 0.0 31.4



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

6.85

400000

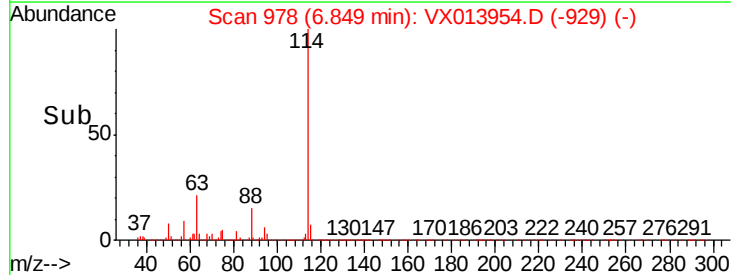
300000

200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.297 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ189I-20191208

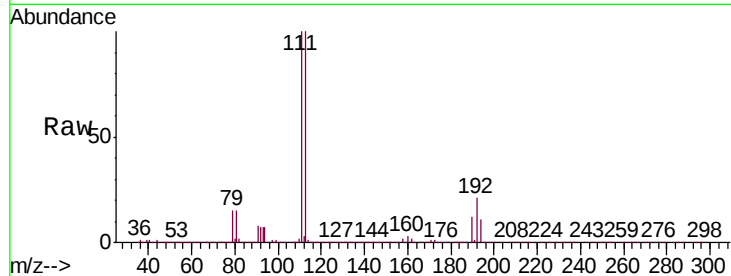
Tgt Ion:113 Resp: 243396

Ion Ratio Lower Upper

113 100

111 103.5 83.6 125.4

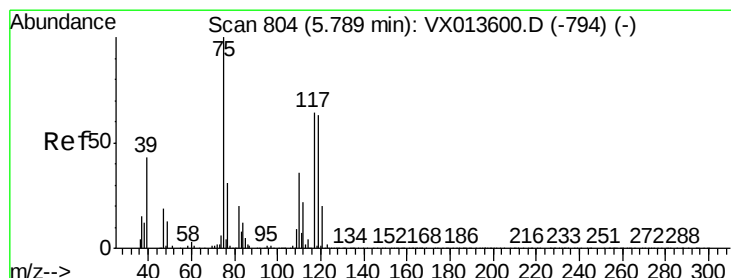
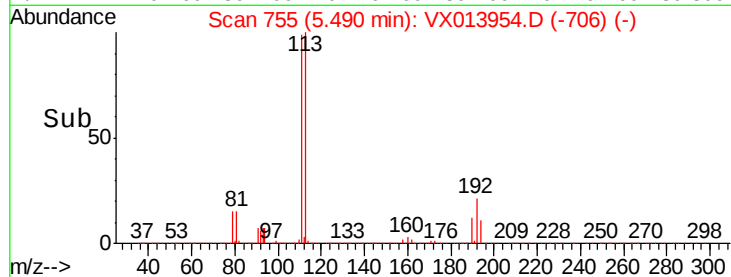
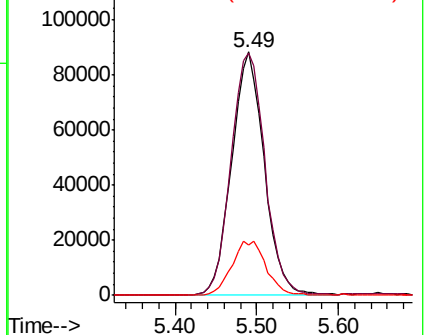
192 23.5 19.2 28.8



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



#36

1,1-Dichloropropene

Concen: 4.829 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

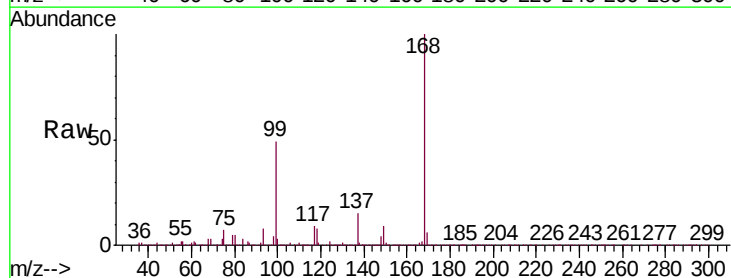
Tgt Ion: 75 Resp: 35737

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

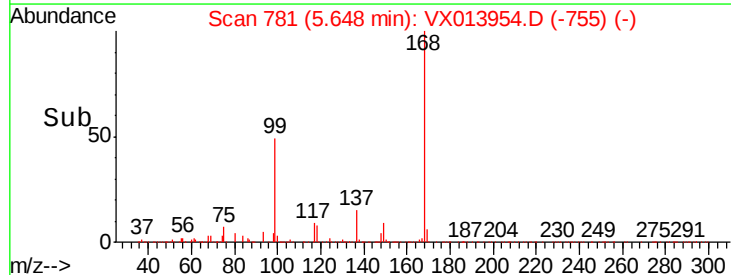
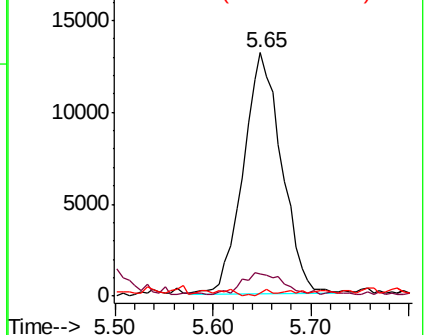
77 0.9 24.5 36.7#

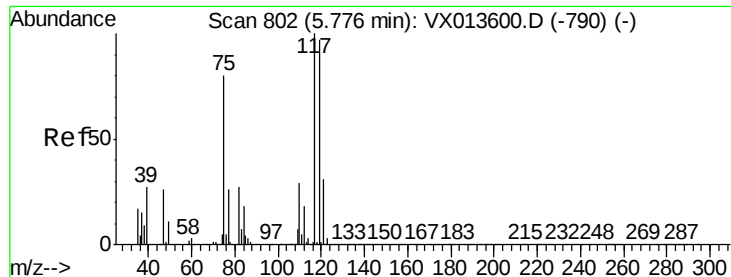


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

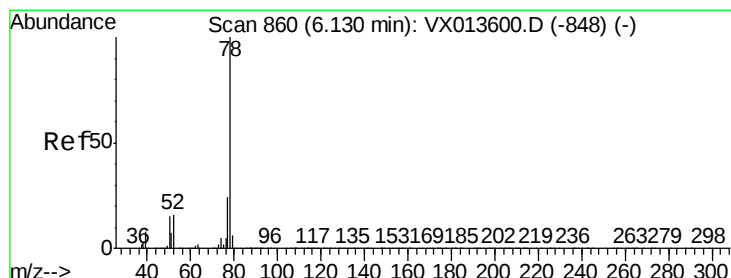
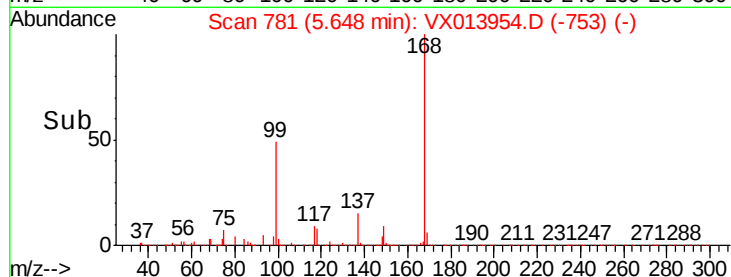
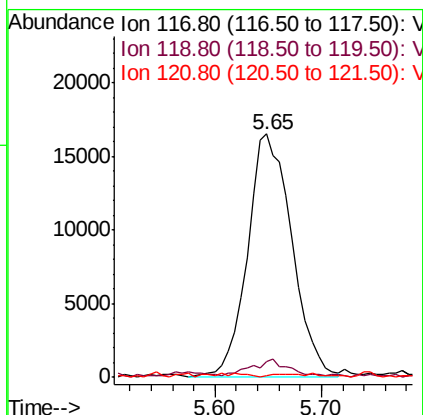
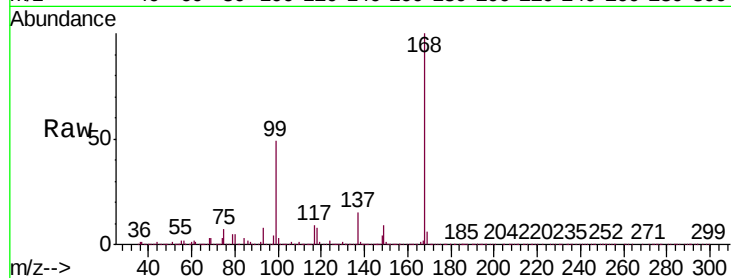




#38
Carbon Tetrachloride
Concen: 6.983 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

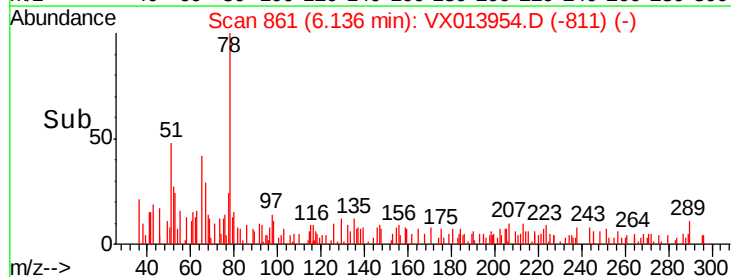
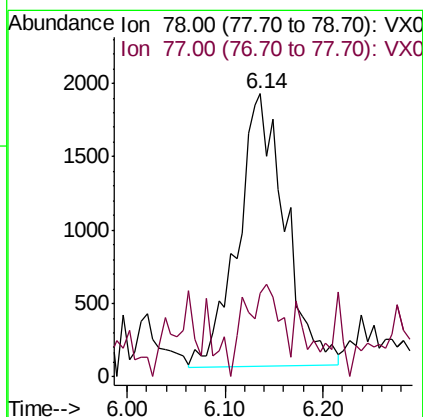
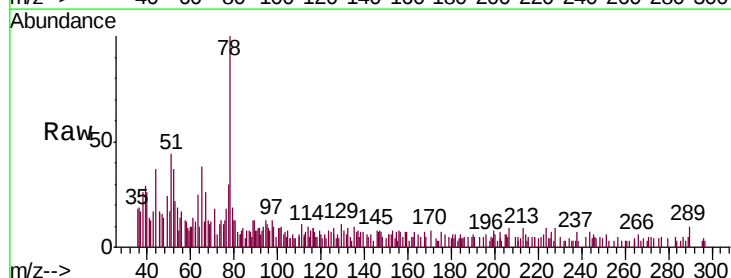
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

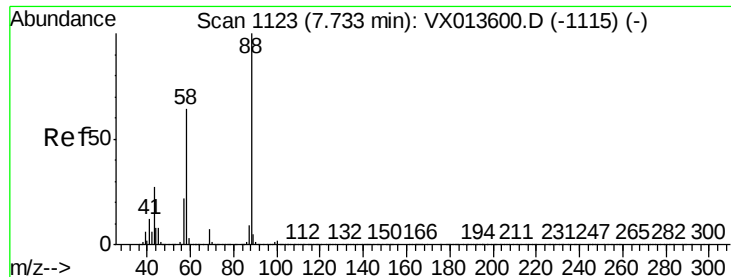
Tgt Ion: 117 Resp: 47649
Ion Ratio Lower Upper
117 100
119 5.2 77.5 116.3#
121 0.2 25.0 37.6#



#40
Benzene
Concen: 0.275 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

Tgt Ion: 78 Resp: 6200
Ion Ratio Lower Upper
78 100
77 0.0 19.0 28.4#





#49

1,4-Dioxane

Concen: 1.150 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ189I-20191208

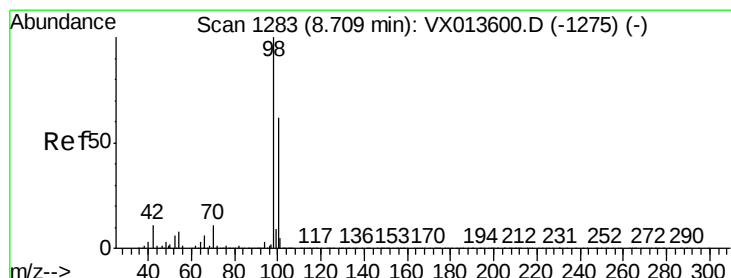
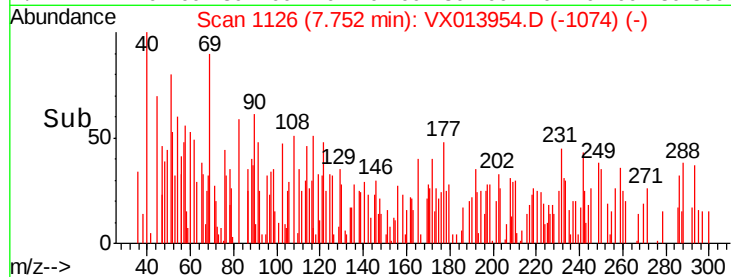
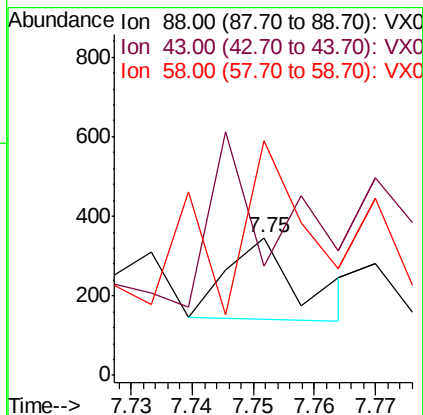
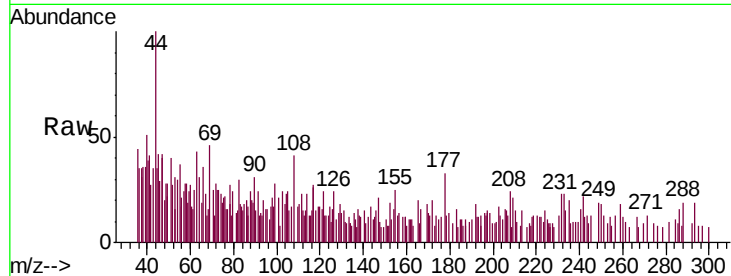
Tgt Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 205.8 25.8 38.6#

58 206.4 54.6 82.0#



#50

Toluene-d8

Concen: 49.131 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013954.D

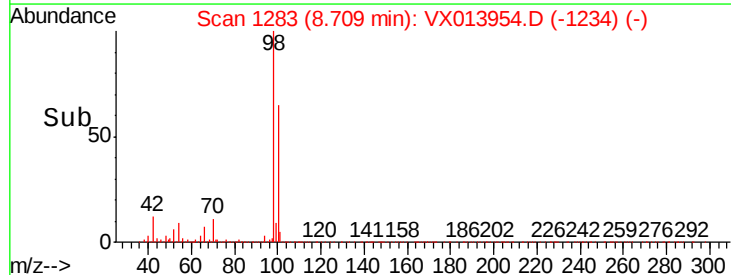
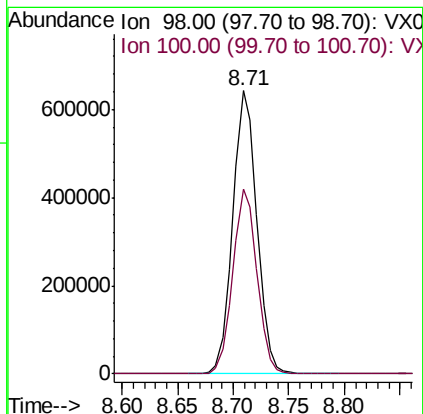
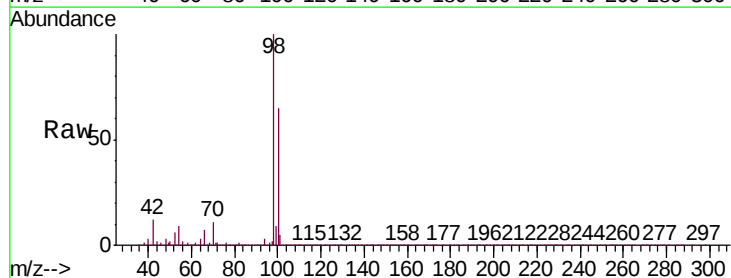
Acq: 11 Dec 2019 19:28

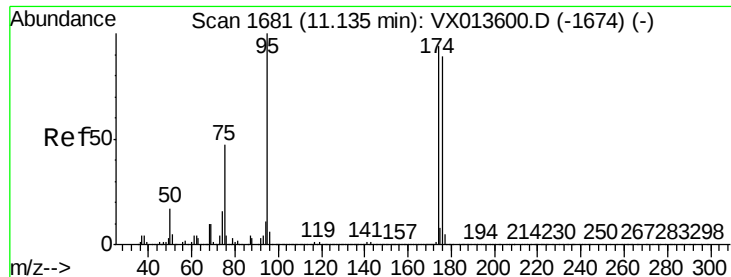
Tgt Ion: 98 Resp: 964667

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7

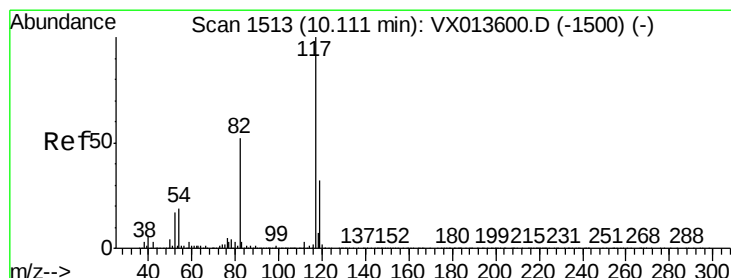
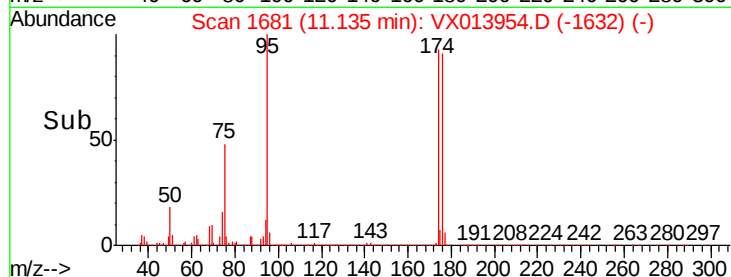
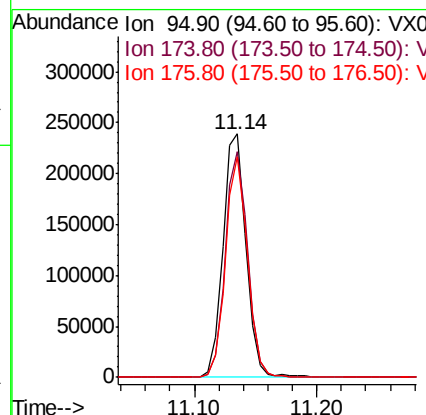
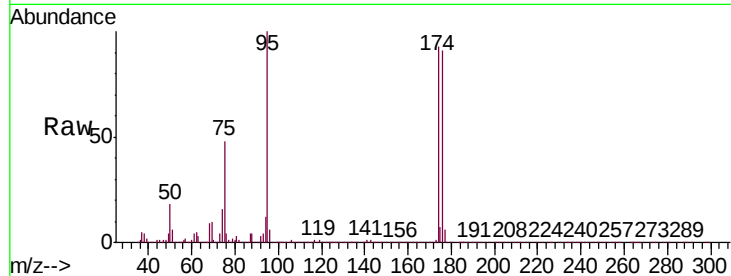




#62
4-Bromofluorobenzene
Concen: 44.187 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

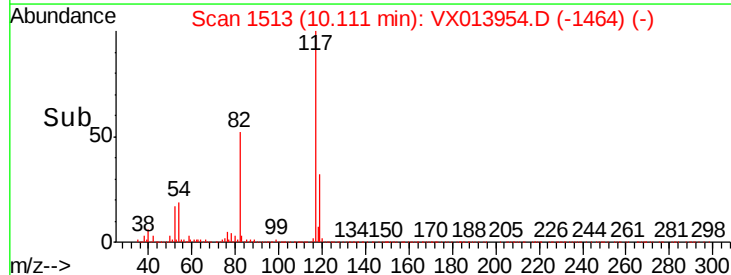
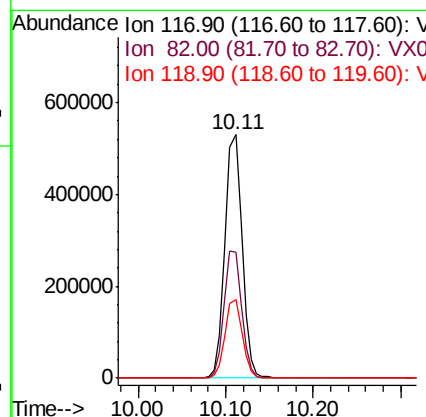
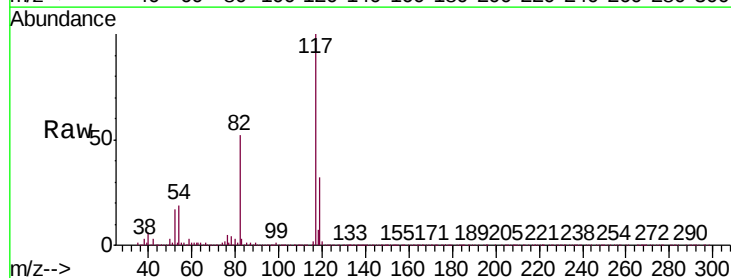
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

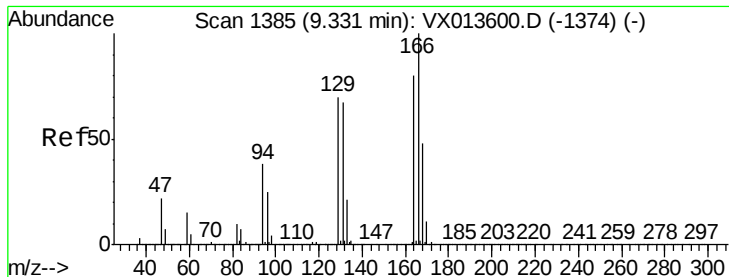
Tgt Ion: 95 Resp: 312856
Ion Ratio Lower Upper
95 100
174 90.0 0.0 180.0
176 86.9 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

Tgt Ion: 117 Resp: 721587
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 32.1 25.8 38.8





#64

Tetrachloroethene

Concen: 0.248 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ189I-20191208

Tgt Ion:164 Resp: 1334

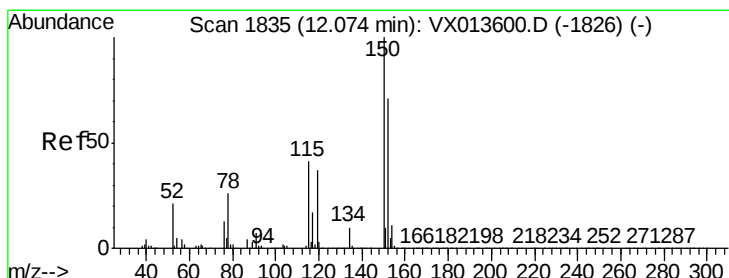
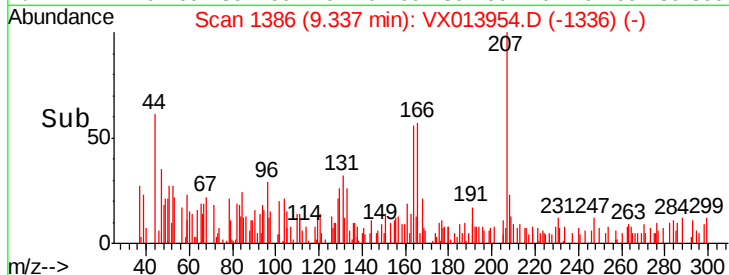
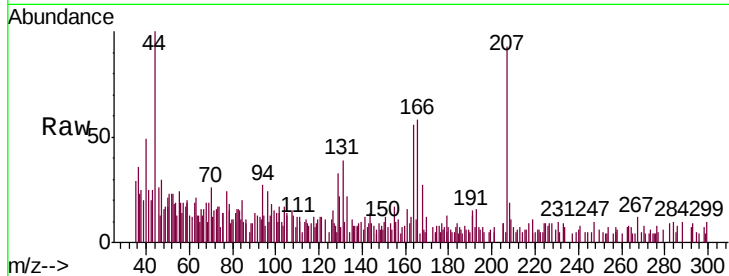
Ion Ratio Lower Upper

164 100

166 122.0 99.7 149.5

129 97.6 70.1 105.1

131 60.9 66.9 100.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

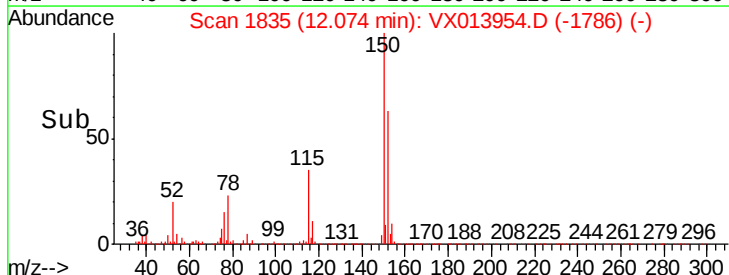
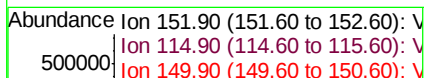
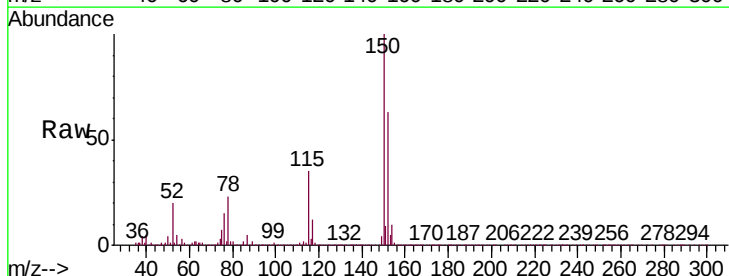
Tgt Ion:152 Resp: 306257

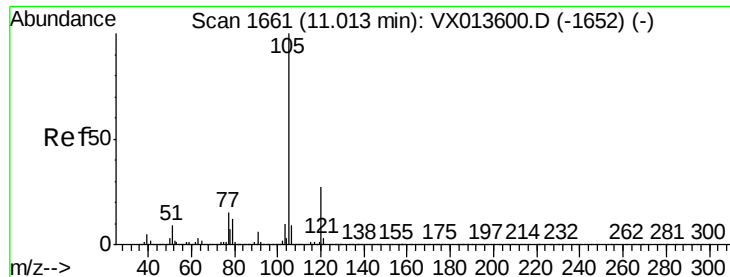
Ion Ratio Lower Upper

152 100

115 55.3 38.4 115.1

150 157.8 0.0 346.8





#73

Isopropylbenzene

Concen: 1.162 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

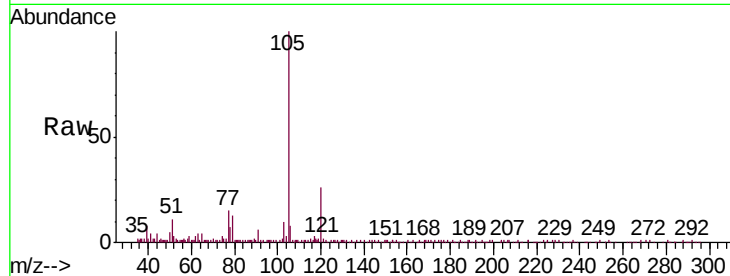
SA-PZ189I-20191208

Tgt Ion:105 Resp: 24956

Ion Ratio Lower Upper

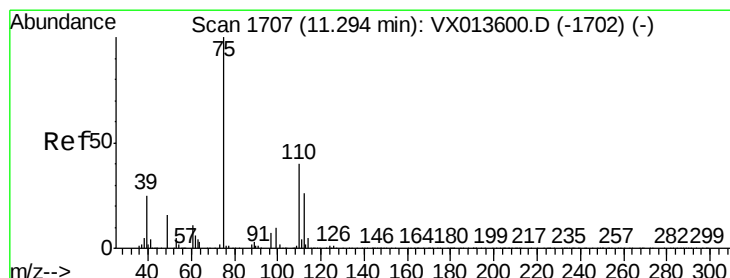
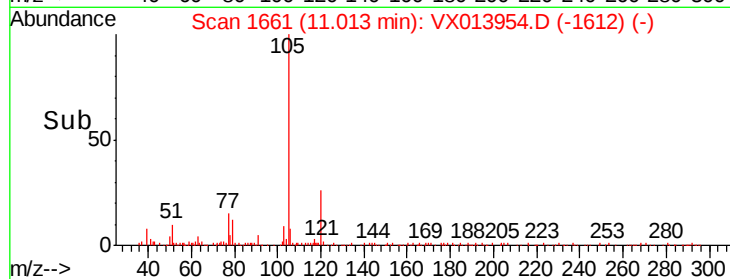
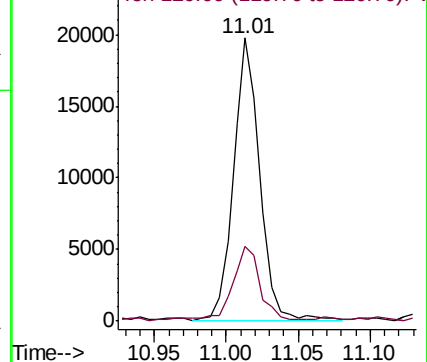
105 100

120 29.2 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 22.480 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013954.D

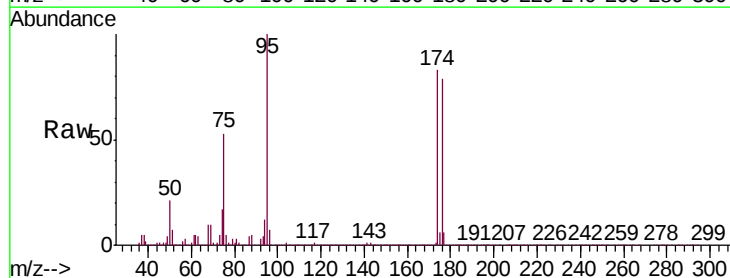
Acq: 11 Dec 2019 19:28

Tgt Ion: 75 Resp: 154850

Ion Ratio Lower Upper

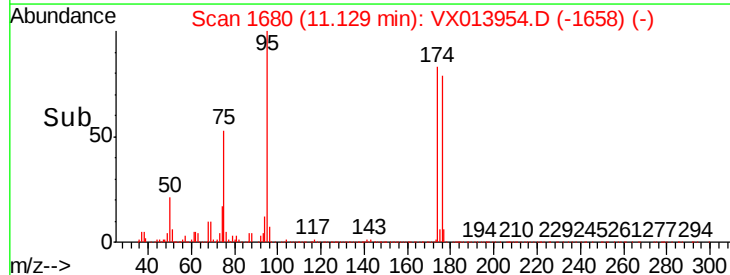
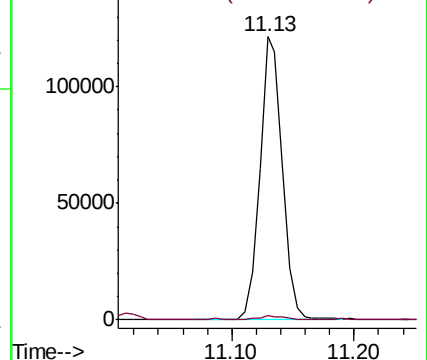
75 100

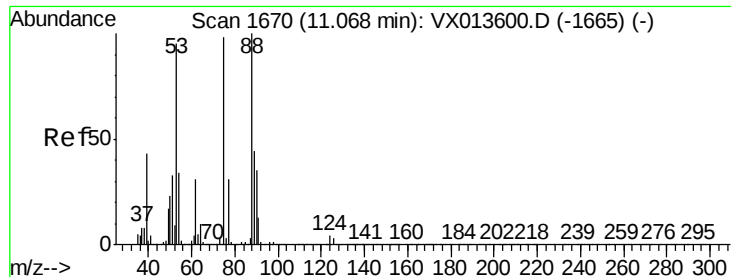
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

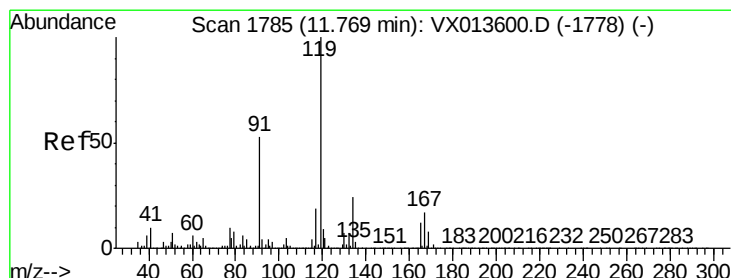
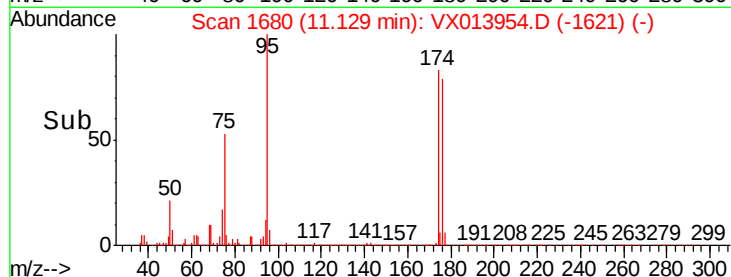
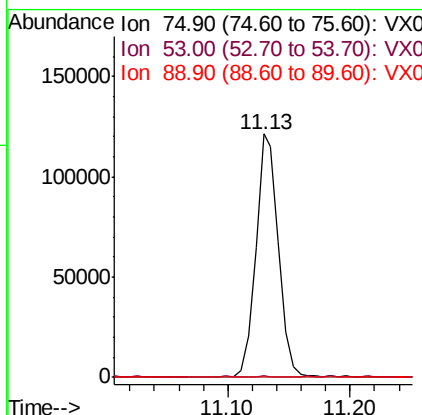
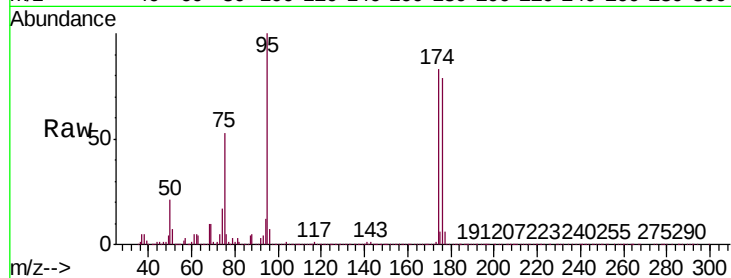




#81
trans-1,4-Dichloro-2-butene
Concen: 61.502 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

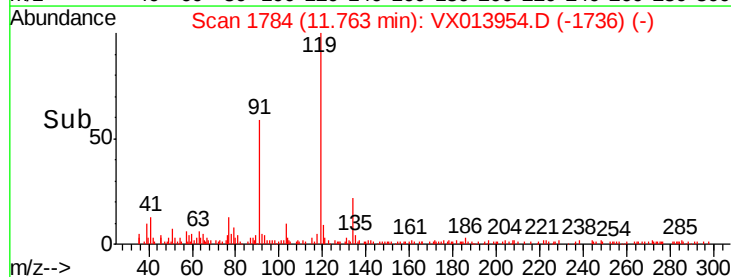
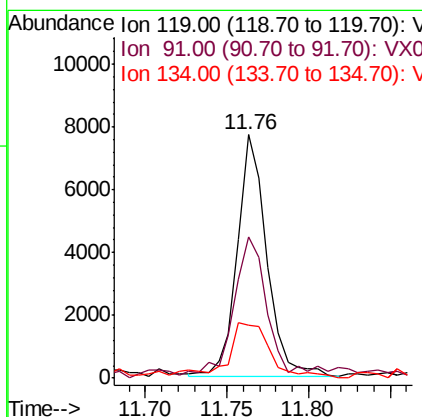
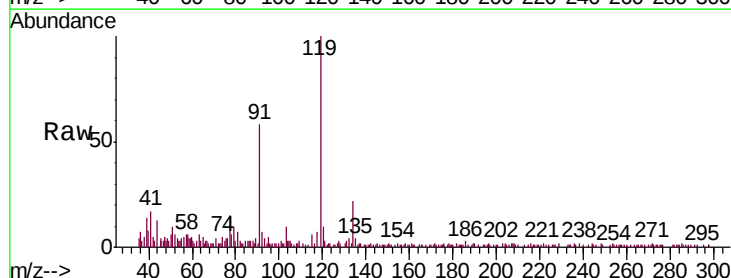
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ189I-20191208

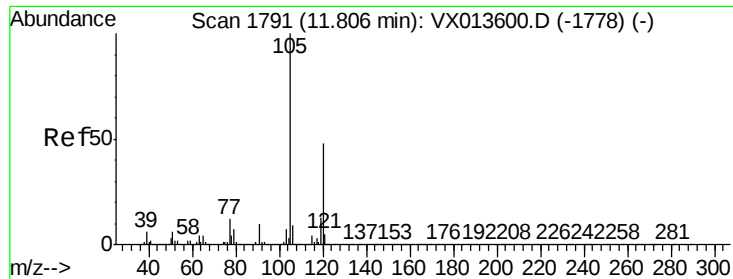
Tgt Ion: 75 Resp: 154850
Ion Ratio Lower Upper
75 100
53 0.3 78.2 117.2#
89 0.2 35.4 53.2#



#83
tert-Butylbenzene
Concen: 0.540 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.01 min
Lab File: VX013954.D
Acq: 11 Dec 2019 19:28

Tgt Ion: 119 Resp: 9666
Ion Ratio Lower Upper
119 100
91 63.7 27.2 81.6
134 33.6 11.7 35.1





#84

1,2,4-Trimethylbenzene

Concen: 2.712 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.13 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Instrument :

MSVOA_X

ClientSampleId :

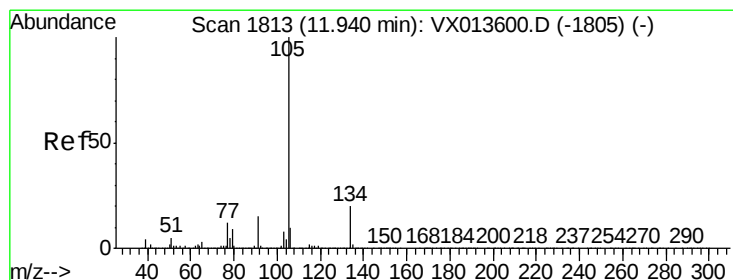
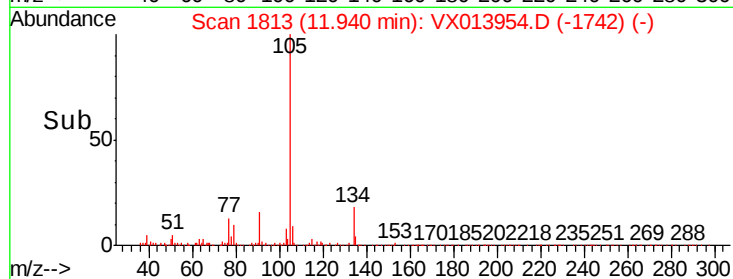
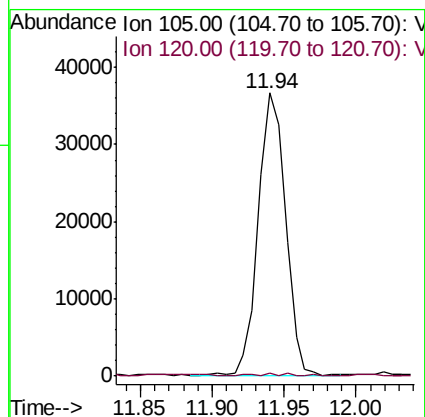
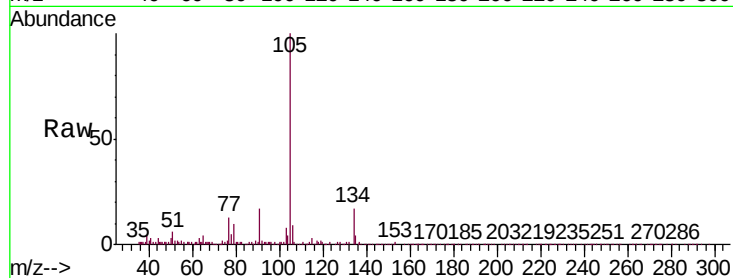
SA-PZ189I-20191208

Tgt Ion:105 Resp: 48467

Ion Ratio Lower Upper

105 100

120 0.6 23.1 69.3#



#85

sec-Butylbenzene

Concen: 2.371 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013954.D

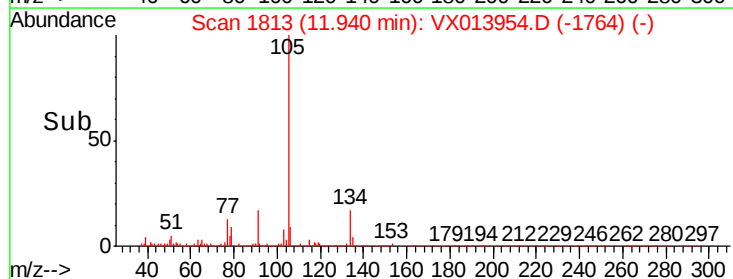
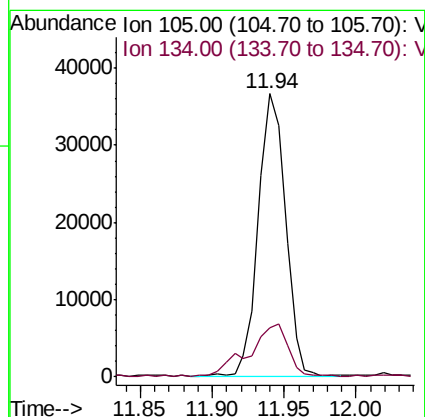
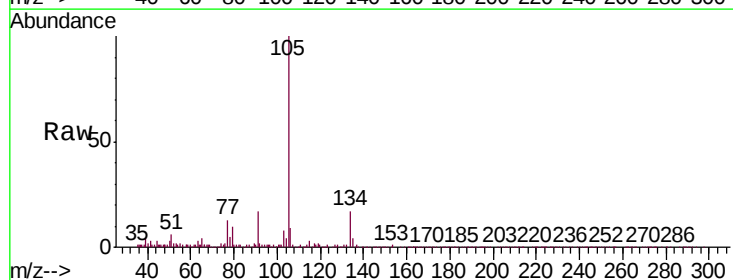
Acq: 11 Dec 2019 19:28

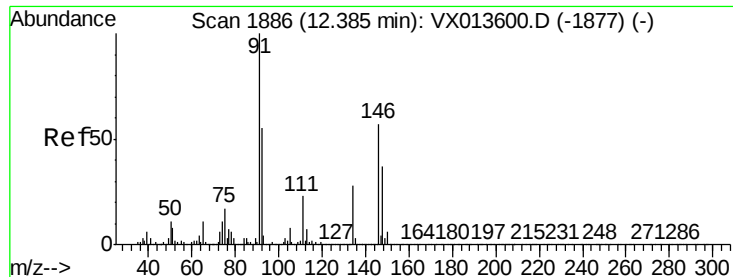
Tgt Ion:105 Resp: 48467

Ion Ratio Lower Upper

105 100

134 27.1 10.4 31.2





#91

1,2-Dichlorobenzene

Concen: 0.406 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

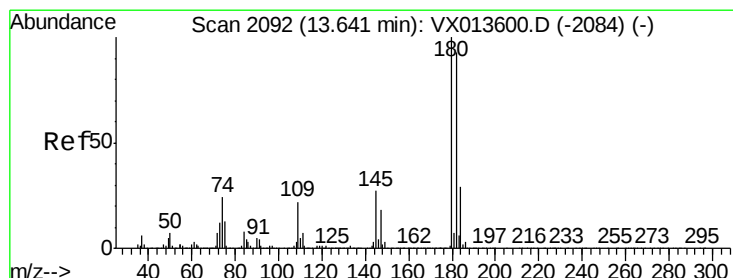
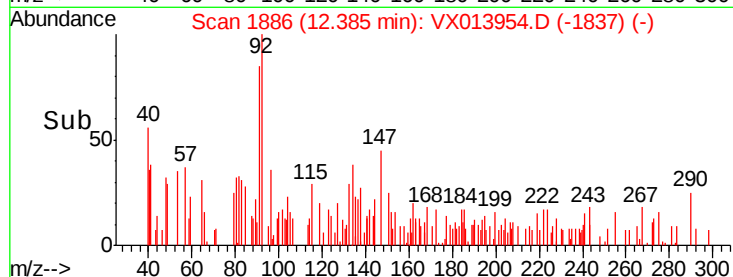
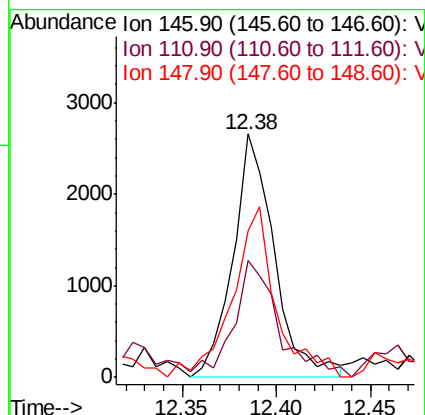
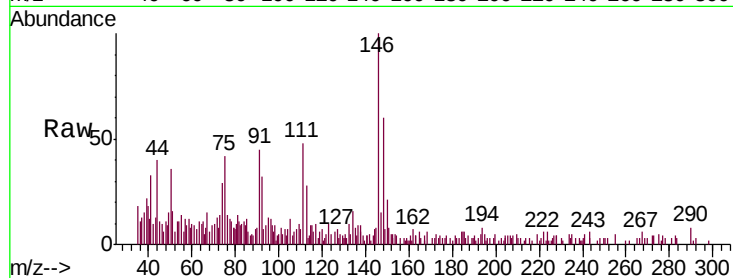
Instrument :

MSVOA_X

ClientSampleId :

SA-PZ189I-20191208

Tgt Ion:	146	Resp:	4055
Ion Ratio	Lower	Upper	
146	100		
111	52.6	19.6	58.7
148	73.9	31.9	95.7



#93

1,2,4-Trichlorobenzene

Concen: 0.369 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013954.D

Acq: 11 Dec 2019 19:28

Tgt Ion:	180	Resp:	2569
Ion Ratio	Lower	Upper	
180	100		
182	102.0	47.2	141.6
145	120.9	13.8	41.4#

