

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006623.D
 Acq On : 19 Dec 2018 03:25
 Operator : JC/MD
 Sample : J6408-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ163I-20181208

Quant Time: Dec 19 06:07:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	635579	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1014519	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	935163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	444824	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	355820	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
35) Dibromofluoromethane	5.50	113	301254	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	8.71	98	1214184	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	11.13	95	445726	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	

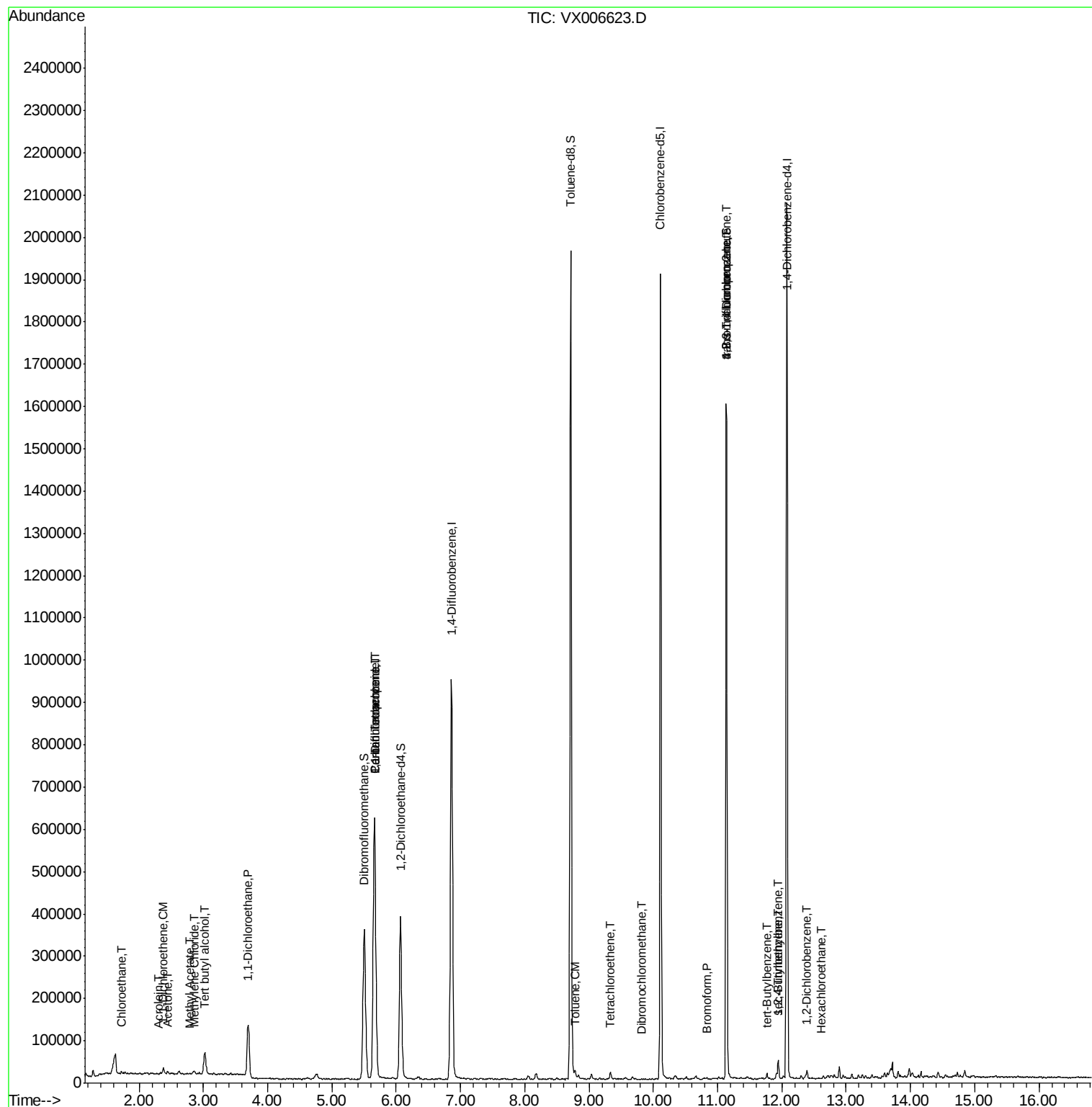
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1894	Below Cal	#	55
6) Chloroethane	1.73	64	4583	1.012	ug/l #	83
11) Tert butyl alcohol	3.03	59	33129	21.671	ug/l #	80
12) 1,1-Dichloroethene	2.37	96	5375	0.947	ug/l	85
13) Acrolein	2.30	56	430	0.417	ug/l #	13
16) Acetone	2.45	43	5243	1.666	ug/l	90
18) Methyl Acetate	2.78	43	2547	0.275	ug/l #	88
20) Methylene Chloride	2.86	84	3126	0.480	ug/l #	82
24) 1,1-Dichloroethane	3.70	63	144523	13.845	ug/l	99
28) Bromochloromethane	5.05	49	257	Below Cal	#	9
36) 1,1-Dichloropropene	5.67	75	43163	5.137	ug/l #	48
38) Carbon Tetrachloride	5.67	117	59166	7.245	ug/l #	17
49) 1,4-Dioxane	7.75	88	94	Below Cal	#	1
52) Toluene	8.79	92	5592	0.339	ug/l	93
60) Dibromochloromethane	9.82	129	108	2.339	ug/l	57
64) Tetrachloroethene	9.34	164	3459	0.467	ug/l	95
71) Bromoform	10.85	173	86	4.474	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	210648	27.019	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	210648	75.216	ug/l #	15
83) tert-Butylbenzene	11.77	119	5256	0.210	ug/l	83
84) 1,2,4-Trimethylbenzene	11.94	105	22761	0.863	ug/l #	30
85) sec-Butylbenzene	11.94	105	22761	0.740	ug/l	84
90) Hexachloroethane	12.62	117	101	3.316	ug/l #	35
91) 1,2-Dichlorobenzene	12.40	146	5567	0.375	ug/l	91

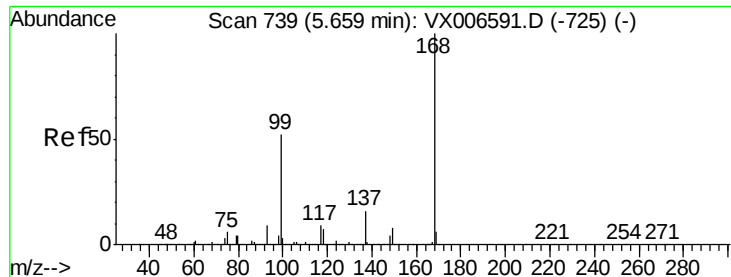
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 19 06:07:11 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

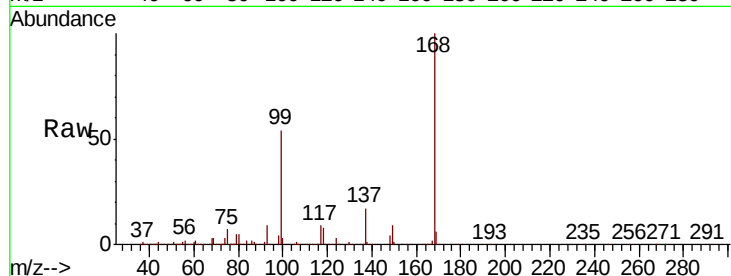
SA.PZ163I-20181208

Tot Ion:168 Resp: 635579

Ion Ratio Lower Upper

168 100

99 54.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): VX006623.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX006623.D (-690) (-)

5.67

250000

200000

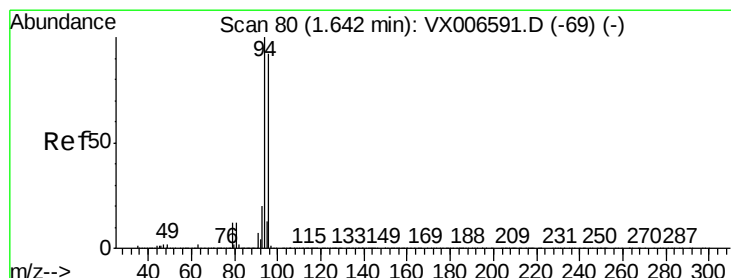
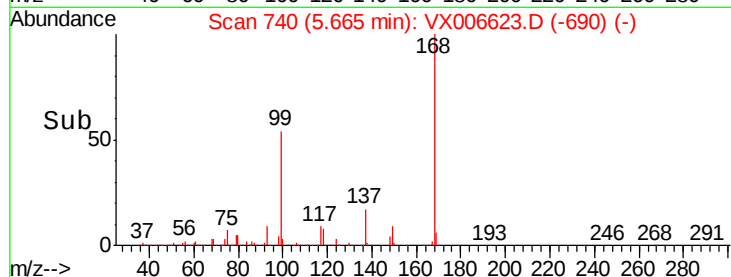
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006623.D

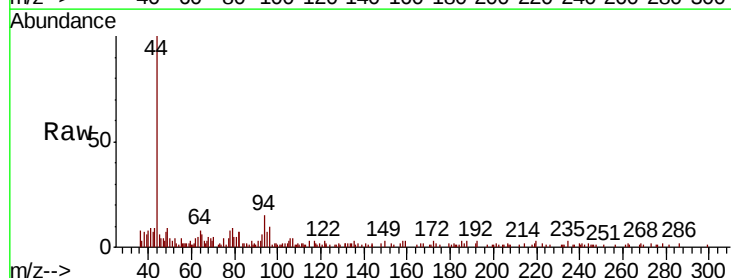
Acq: 19 Dec 2018 03:25

Tgt Ion: 94 Resp: 1894

Ion Ratio Lower Upper

94 100

96 49.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX006623.D (-31) (-)

Ion 95.90 (95.60 to 96.60): VX006623.D (-31) (-)

1.64

1000

800

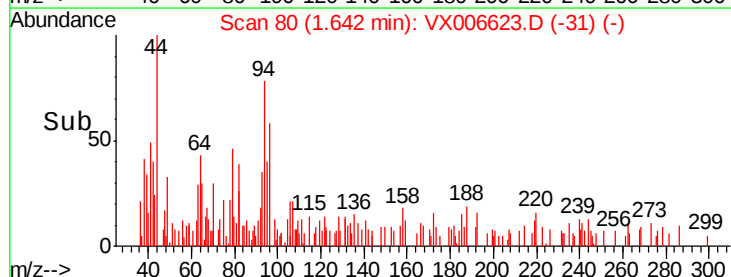
600

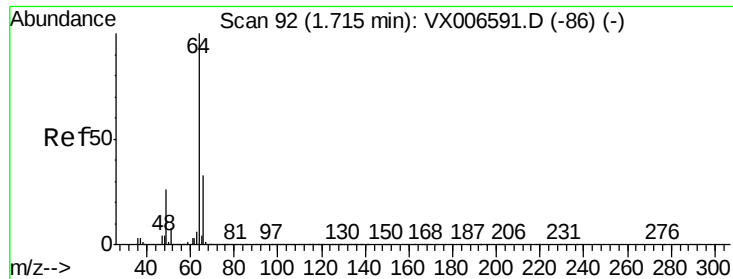
400

200

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 1.012 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

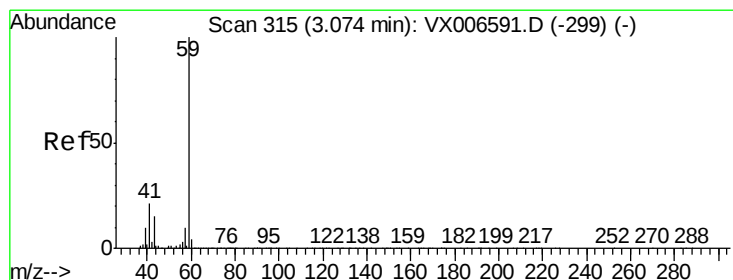
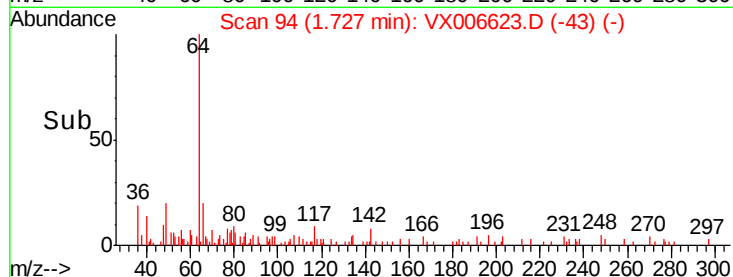
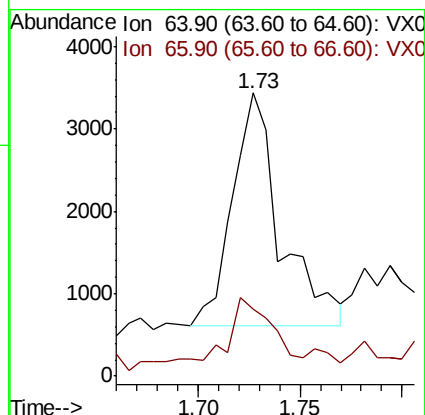
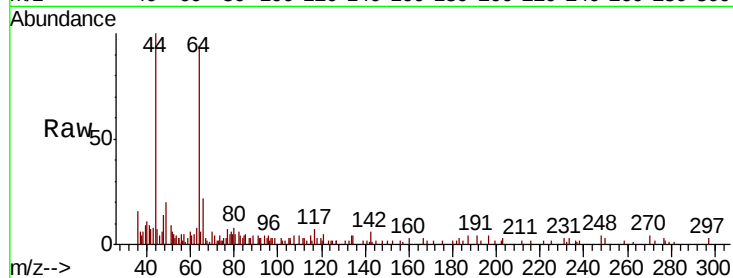
SA.PZ163I-20181208

Tot Ion: 64 Resp: 4583

Ion Ratio Lower Upper

64 100

66 23.0 25.9 38.9#



#11

Tert butyl alcohol

Concen: 21.671 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006623.D

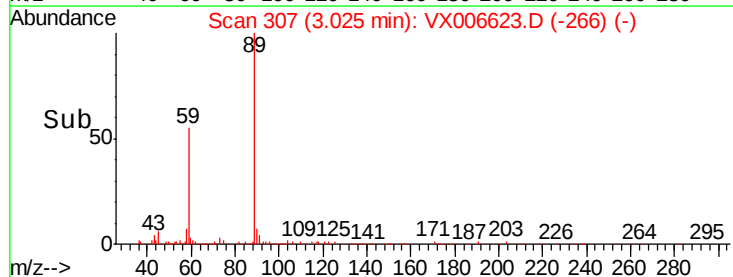
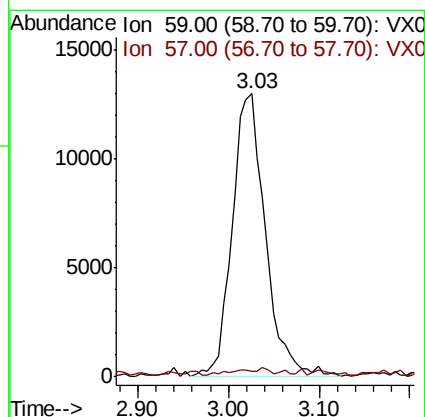
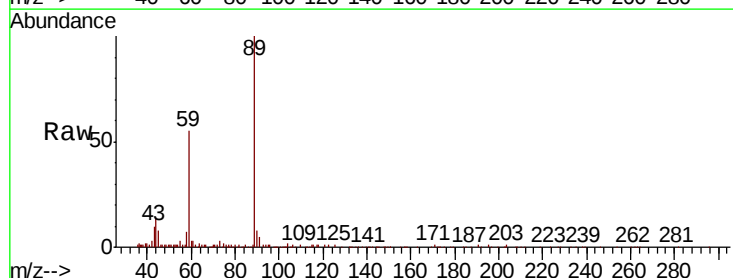
Acq: 19 Dec 2018 03:25

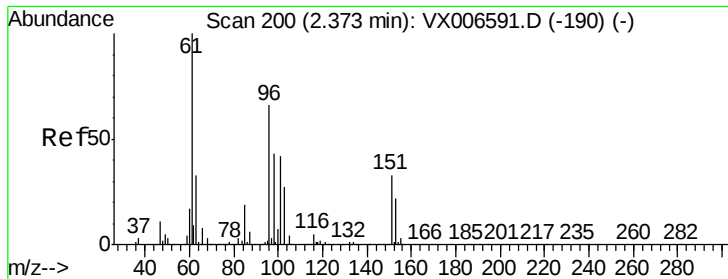
Tgt Ion: 59 Resp: 33129

Ion Ratio Lower Upper

59 100

57 2.8 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.947 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ163I-20181208

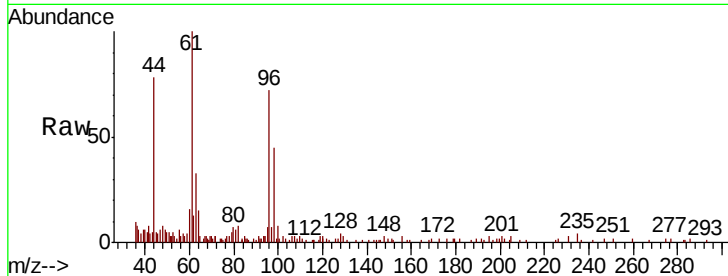
Tot Ion: 96 Resp: 5375

Ion Ratio Lower Upper

96 100

61 138.5 131.7 197.5

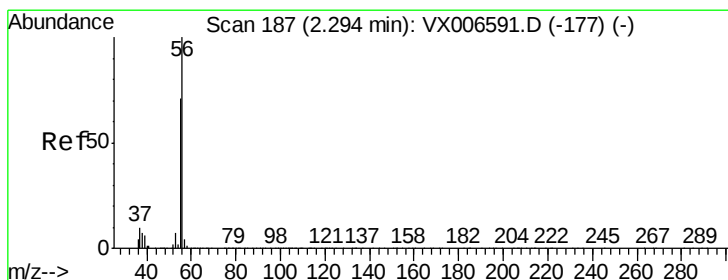
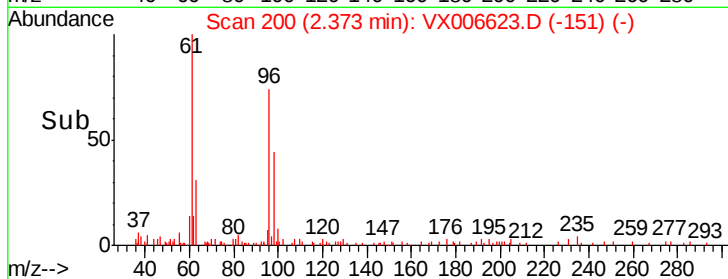
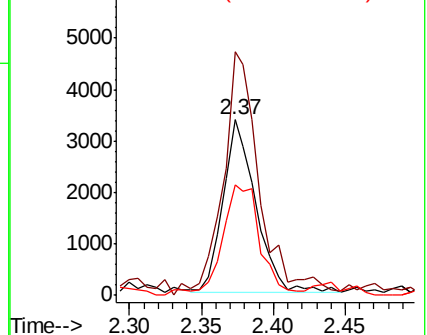
98 61.8 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.417 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006623.D

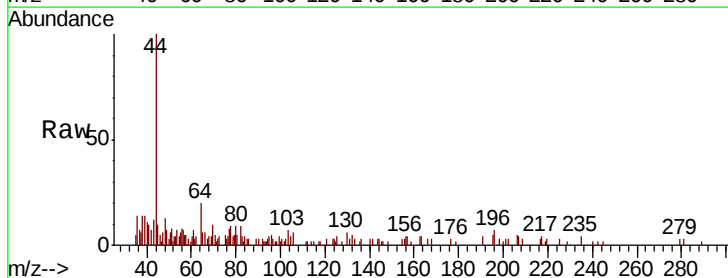
Acq: 19 Dec 2018 03:25

Tgt Ion: 56 Resp: 430

Ion Ratio Lower Upper

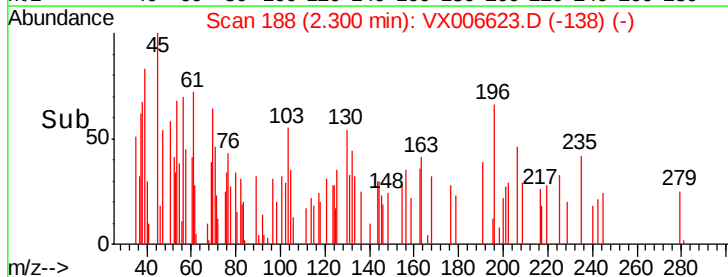
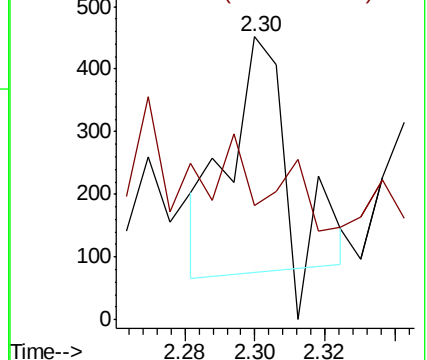
56 100

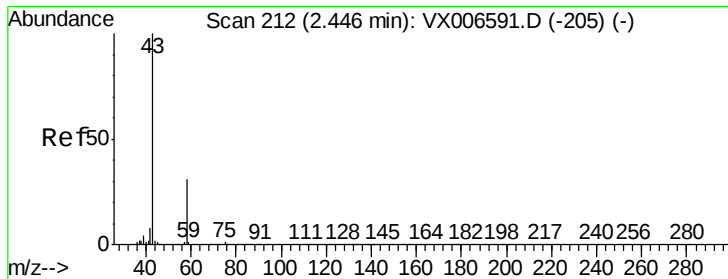
55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

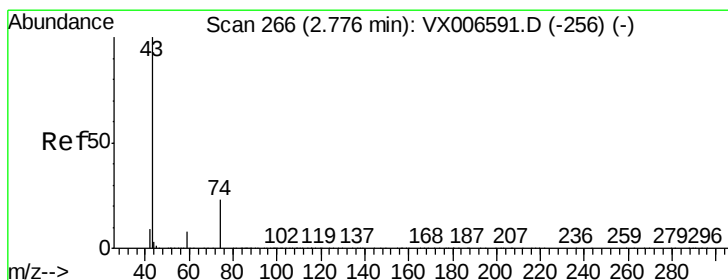
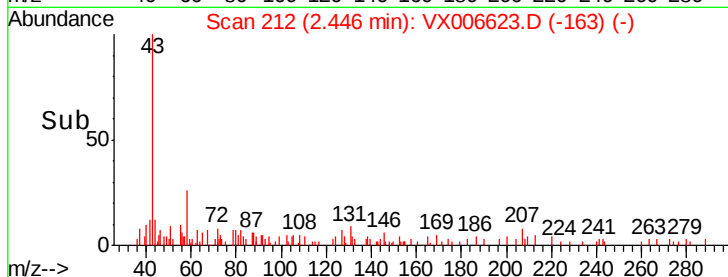
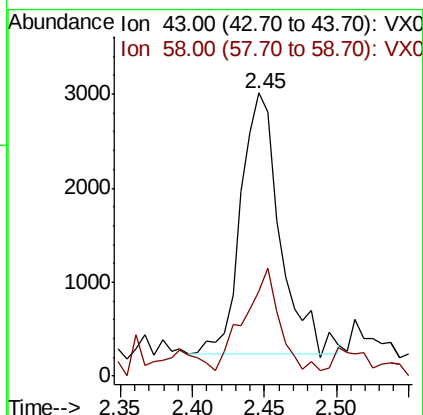
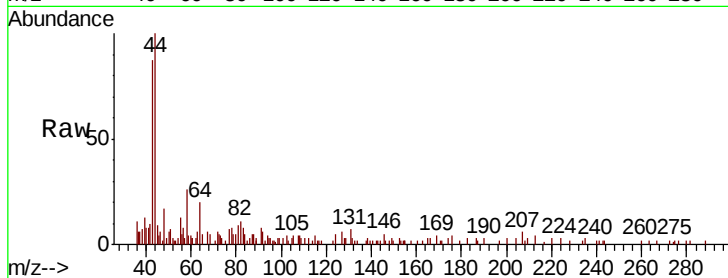




#16
Acetone
Concen: 1.666 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

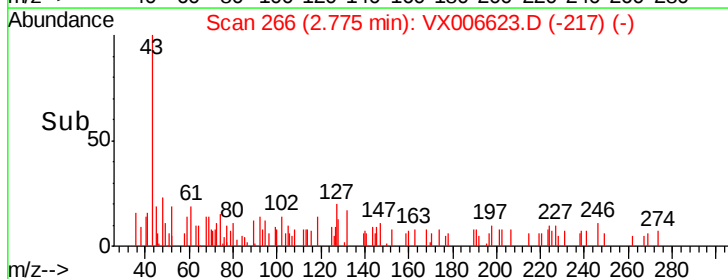
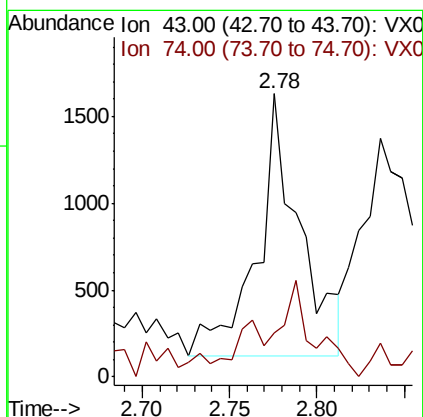
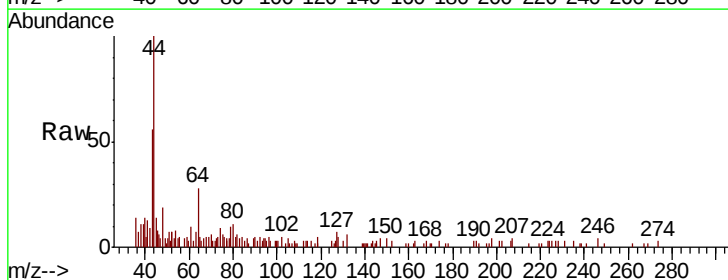
Instrument :
MSVOA_X
ClientSampleId :
SA.PZ1631-20181208

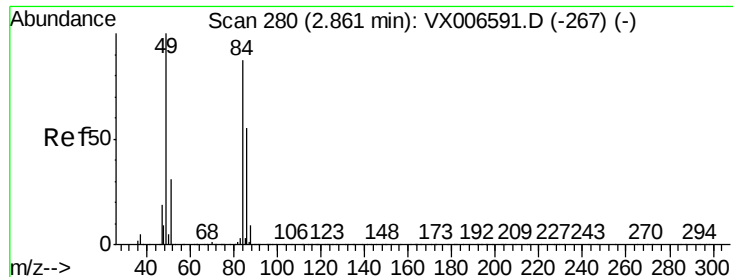
Tot Ion: 43 Resp: 5243
Ion Ratio Lower Upper
43 100
58 24.5 24.0 36.0



#18
Methyl Acetate
Concen: 0.275 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Tgt Ion: 43 Resp: 2547
Ion Ratio Lower Upper
43 100
74 28.0 17.9 26.9#





#20

Methylene Chloride

Concen: 0.480 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ163I-20181208

Tot Ion: 84 Resp: 3126

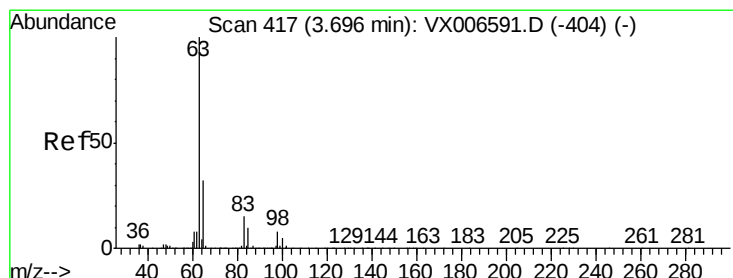
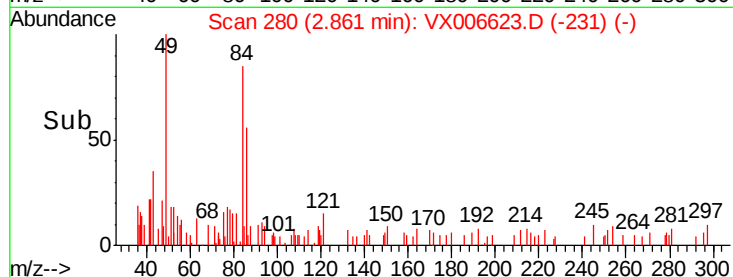
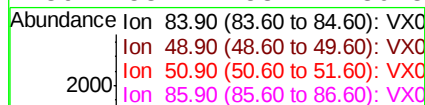
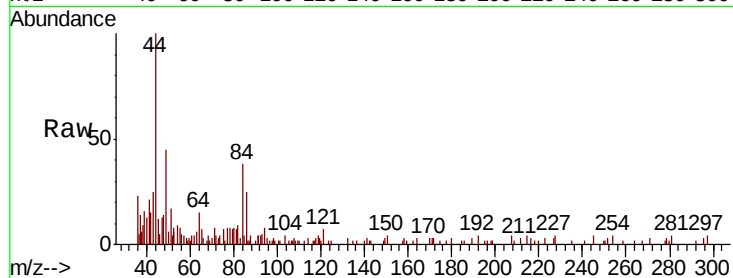
Ion Ratio Lower Upper

84 100

49 98.1 102.2 153.4#

51 34.4 31.1 46.7

86 58.4 53.7 80.5



#24

1,1-Dichloroethane

Concen: 13.845 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

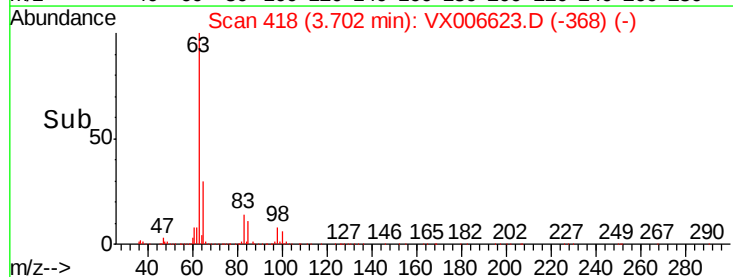
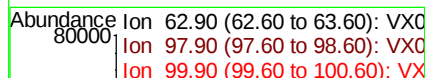
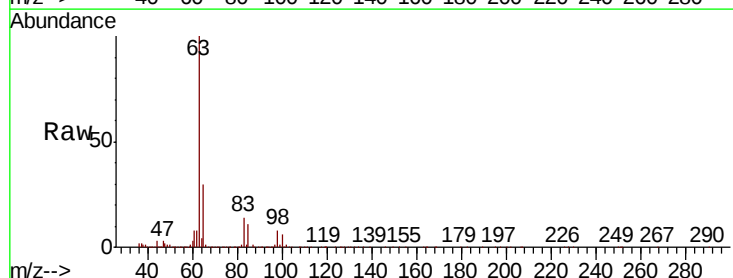
Tgt Ion: 63 Resp: 144523

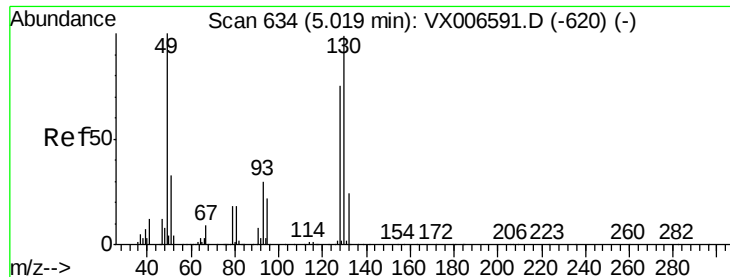
Ion Ratio Lower Upper

63 100

98 7.8 3.8 11.4

100 5.8 2.5 7.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.05 min Scan# 639

Delta R.T. 0.03 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

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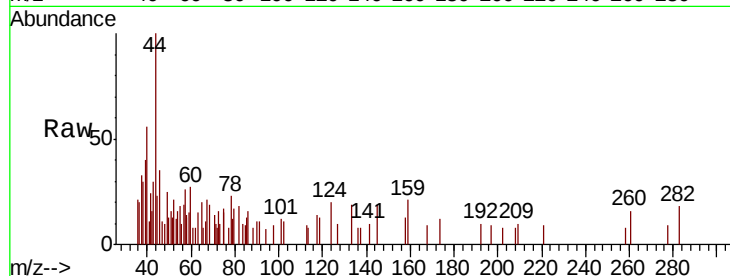
Tot Ion: 49 Resp: 257

Ion Ratio Lower Upper

49 100

129 44.7 0.0 5.0#

130 9.3 78.3 117.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

200

150

100

50

0

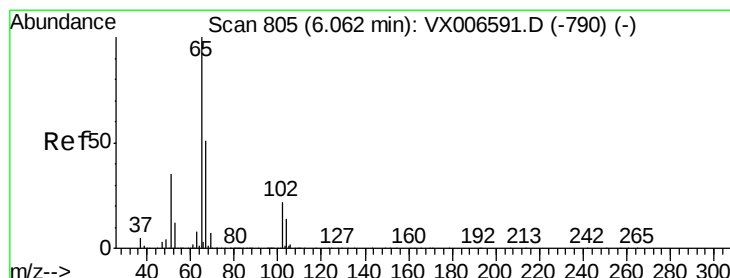
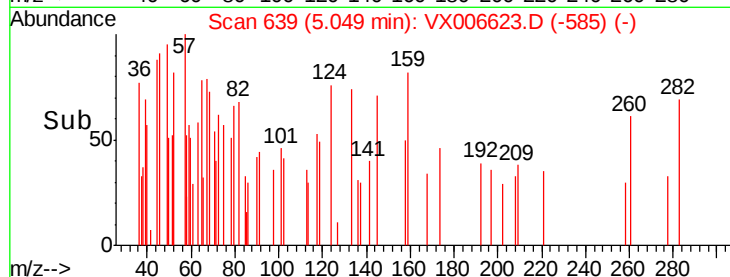
5.04

5.06

5.08

5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.945 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006623.D

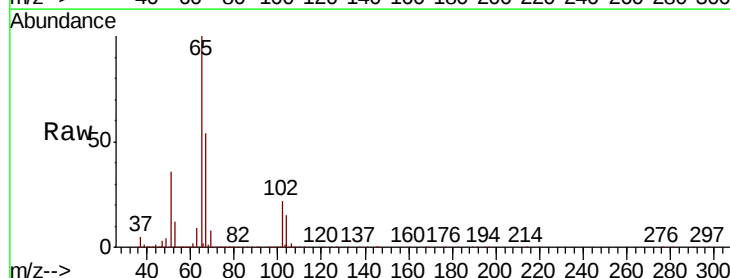
Acq: 19 Dec 2018 03:25

Tgt Ion: 65 Resp: 355820

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

150000

100000

50000

0

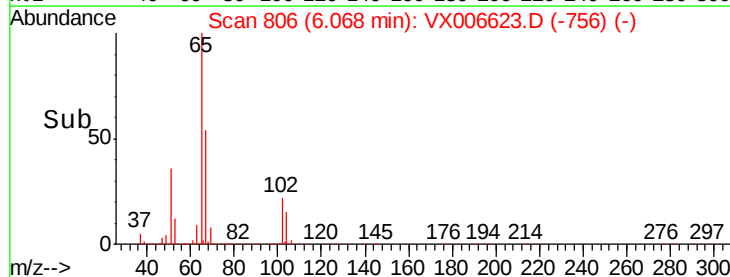
5.90

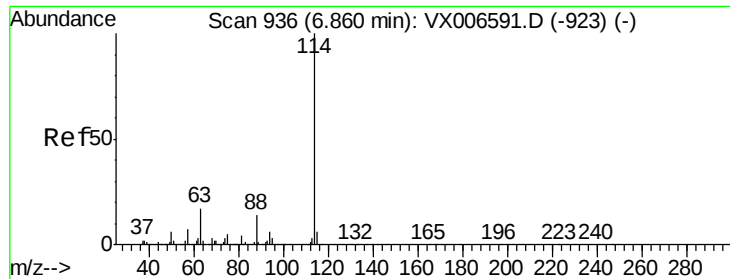
6.00

6.10

6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ163I-20181208

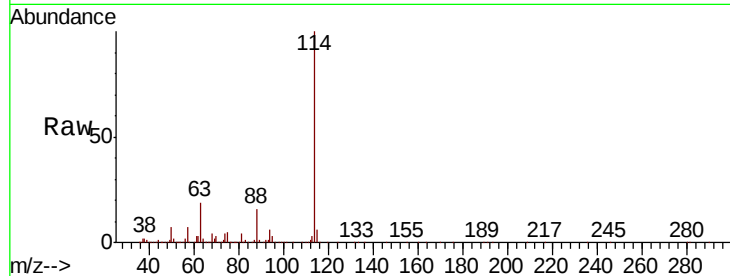
Tot Ion:114 Resp: 1014519

Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.6

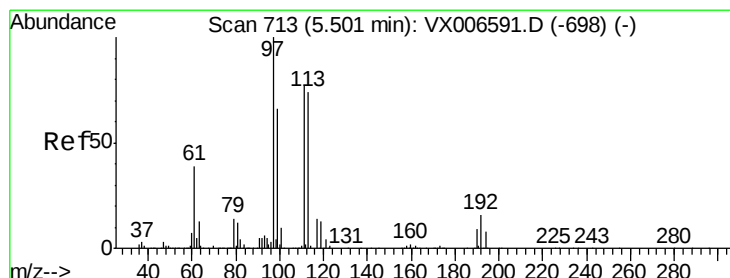
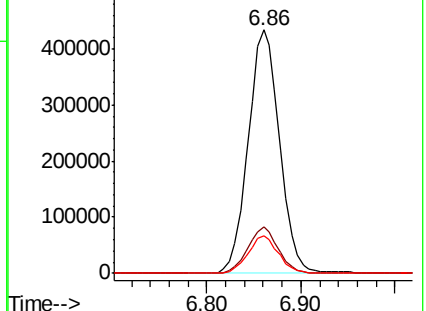
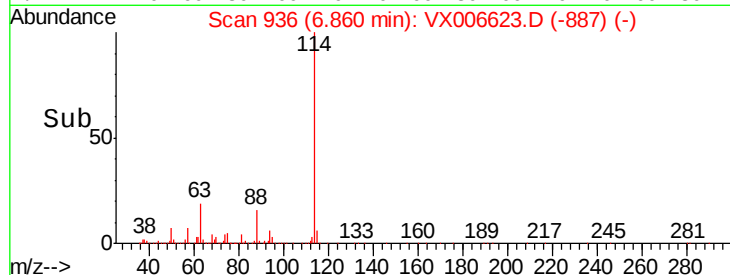
88 15.7 0.0 29.0



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: 46.956 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

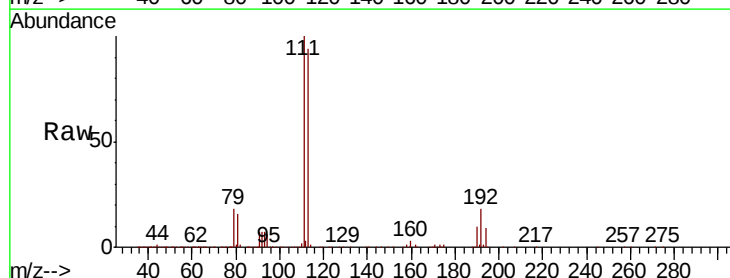
Tgt Ion:113 Resp: 301254

Ion Ratio Lower Upper

113 100

111 103.7 81.1 121.7

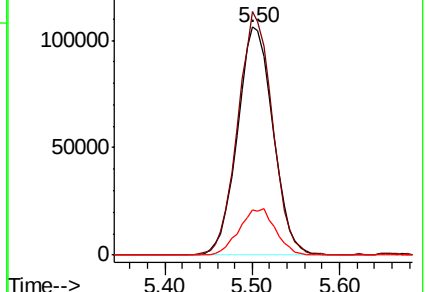
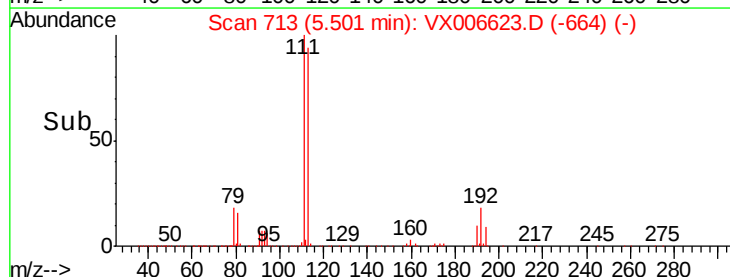
192 20.6 18.2 27.2

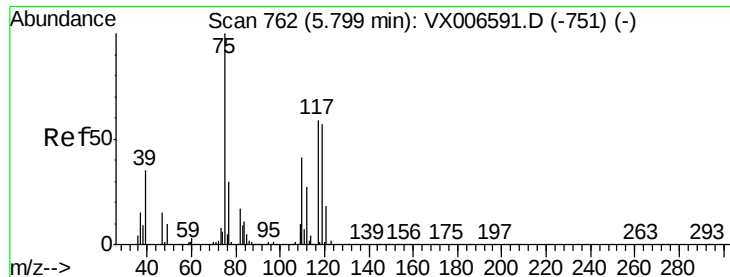


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.137 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ163I-20181208

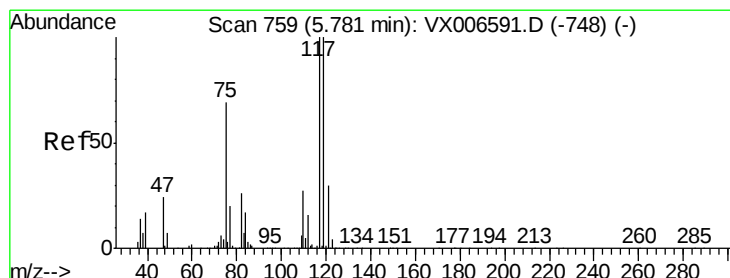
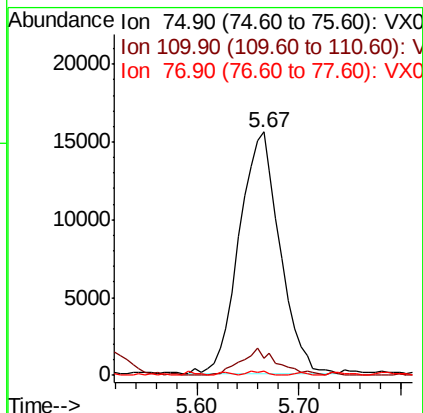
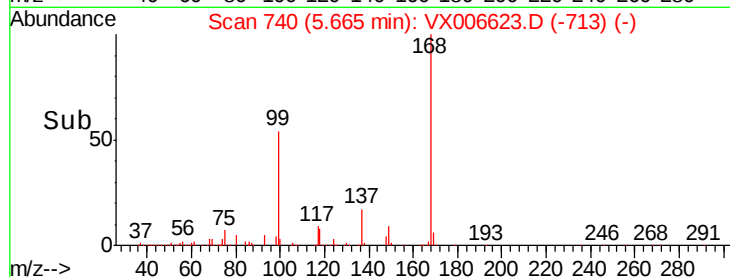
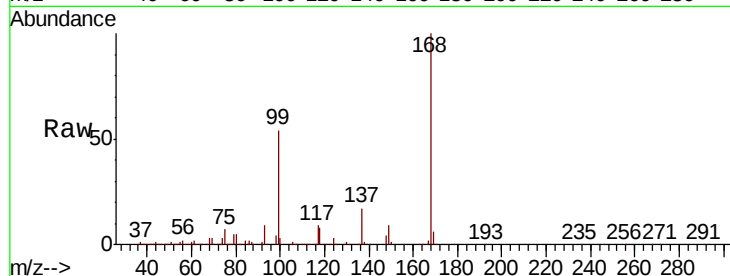
Tot Ion: 75 Resp: 43163

Ion Ratio Lower Upper

75 100

110 10.0 20.4 61.3#

77 0.8 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 7.245 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

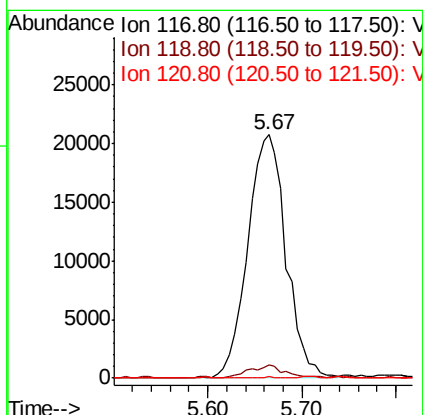
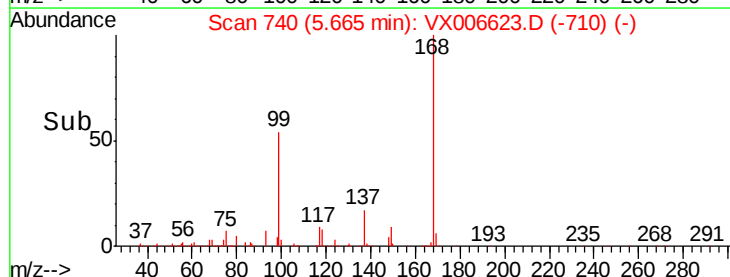
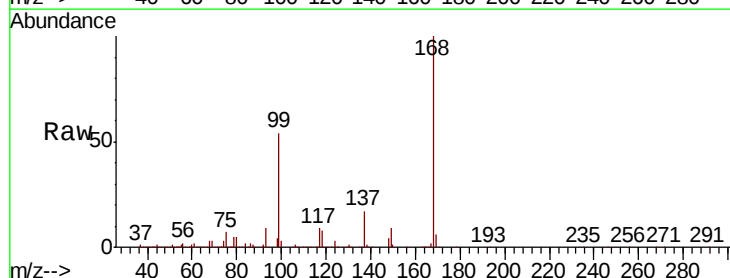
Tgt Ion: 117 Resp: 59166

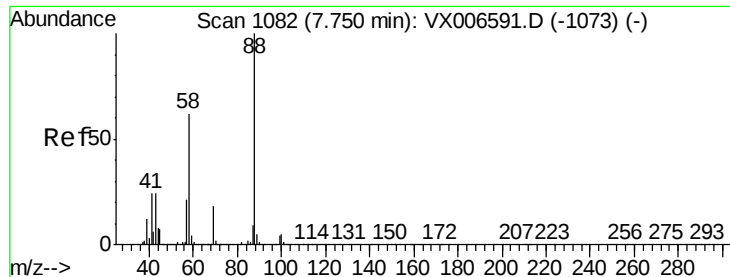
Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

121 0.5 24.6 37.0#

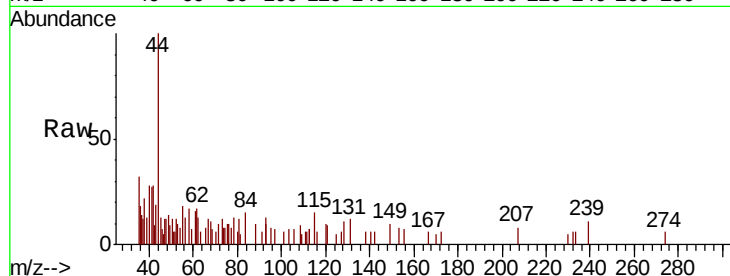




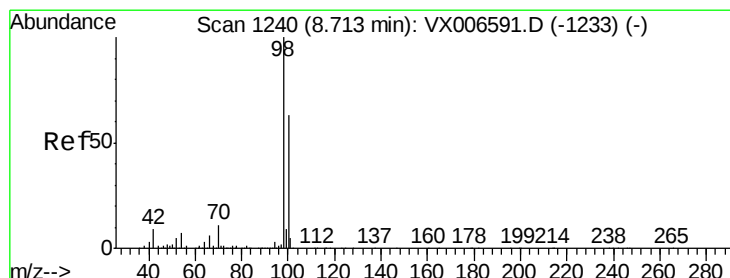
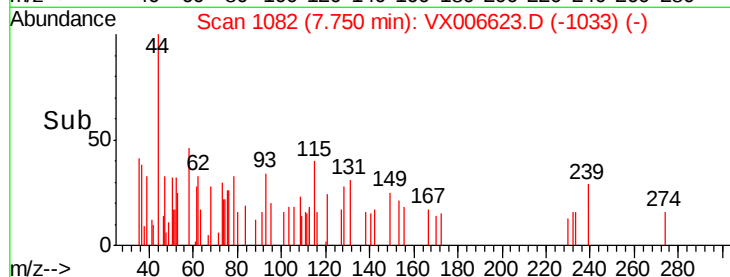
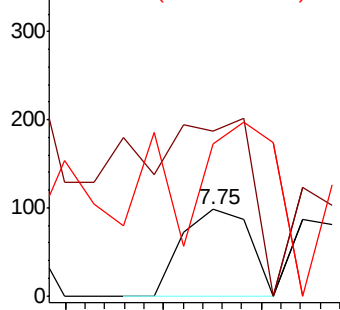
#49
1,4-Dioxane
Concen: Below Cal
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Instrument :
MSVOA_X
ClientSampleId :
SA.PZ1631-20181208

Tot Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 120.2 23.2 34.8#
58 211.7 51.4 77.0#

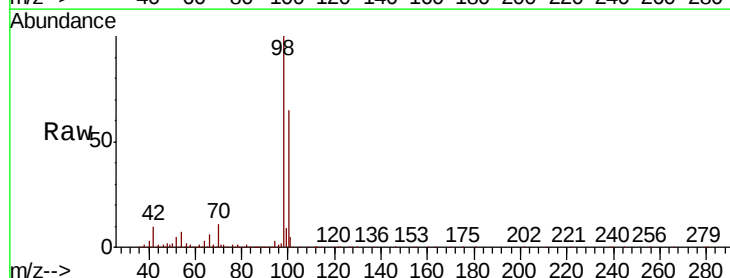


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

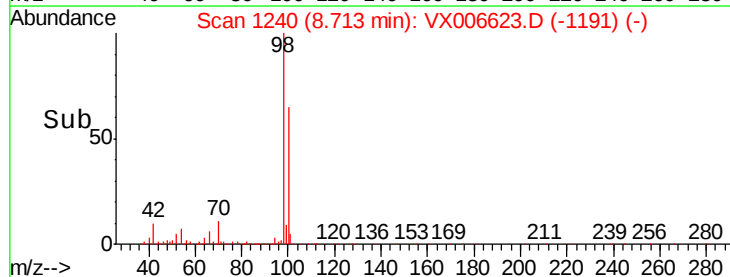
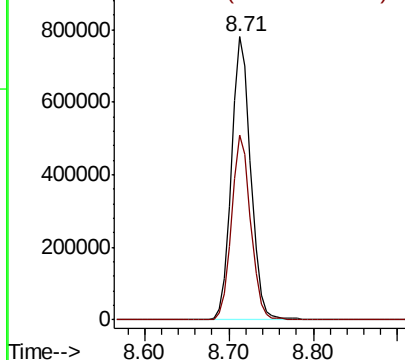


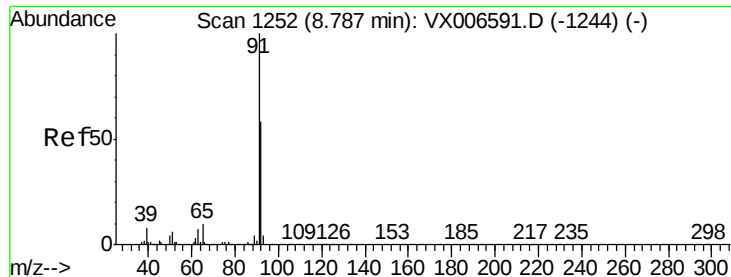
#50
Toluene-d8
Concen: 50.200 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Tgt Ion: 98 Resp: 1214184
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.339 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

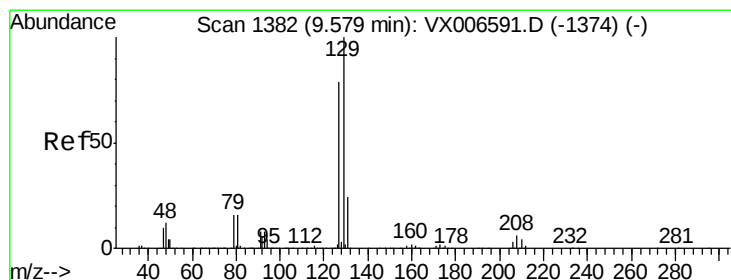
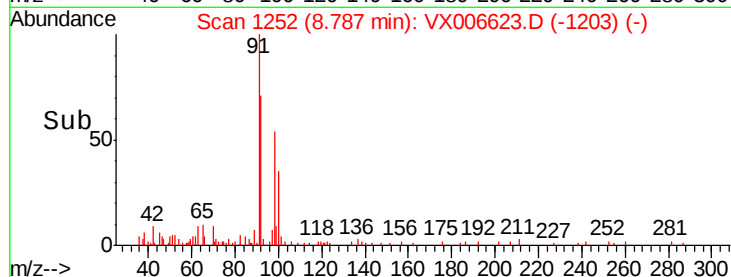
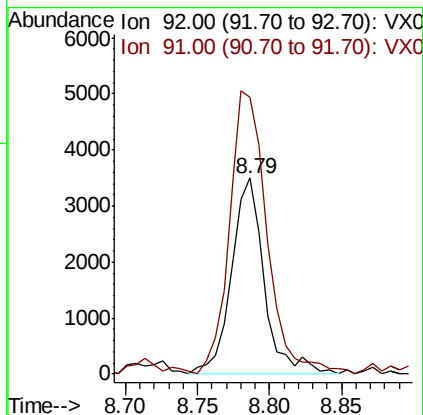
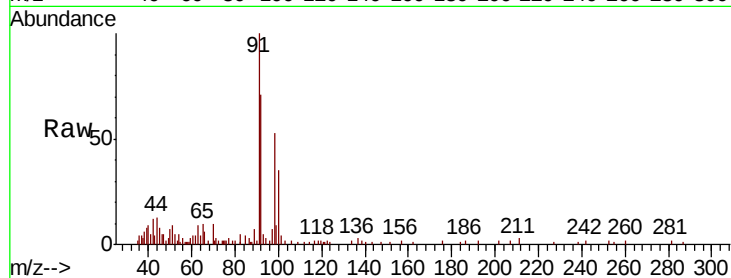
SA.PZ163I-20181208

Tot Ion: 92 Resp: 5592

Ion Ratio Lower Upper

92 100

91 164.6 139.2 208.8



#60

Dibromochloromethane

Concen: 2.339 ug/l

RT: 9.82 min Scan# 1421

Delta R.T. 0.24 min

Lab File: VX006623.D

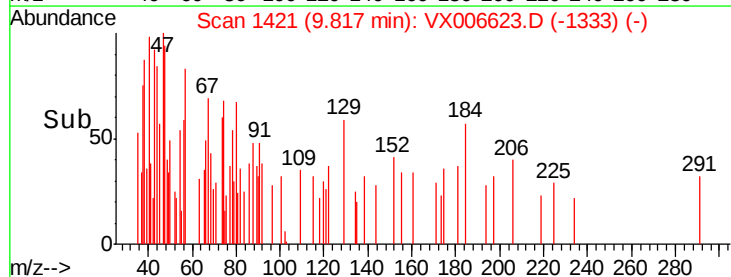
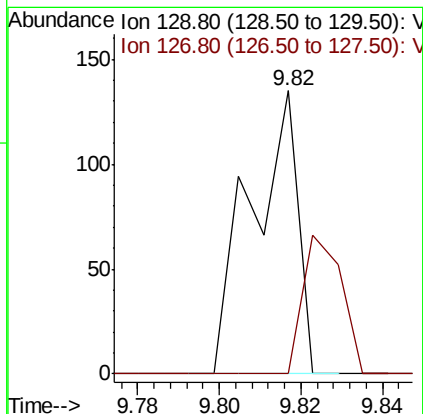
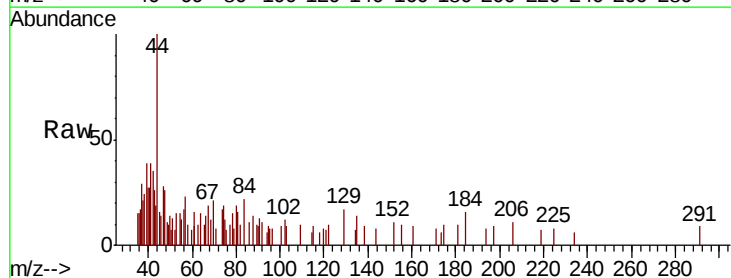
Acq: 19 Dec 2018 03:25

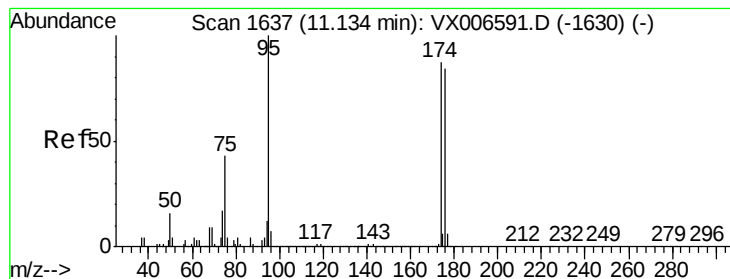
Tgt Ion: 129 Resp: 108

Ion Ratio Lower Upper

129 100

127 39.8 38.6 115.8





#62

4-Bromofluorobenzene

Concen: 50.317 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ1631-20181208

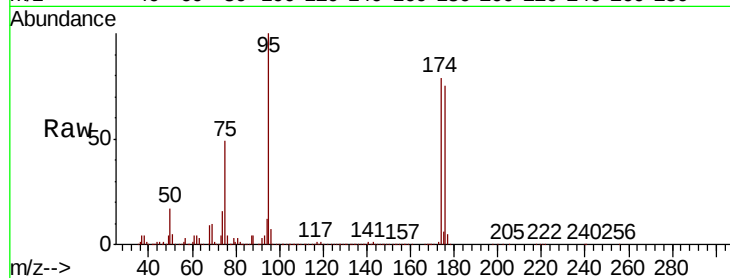
Tot Ion: 95 Resp: 445726

Ion Ratio Lower Upper

95 100

174 84.3 0.0 187.0

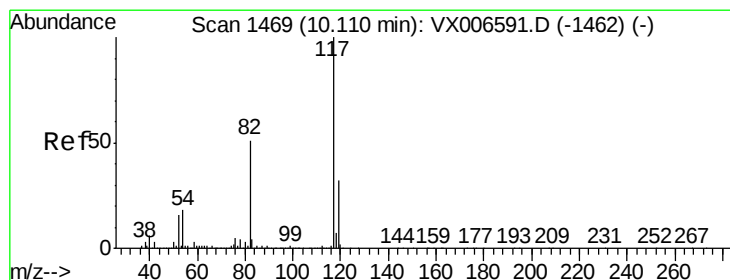
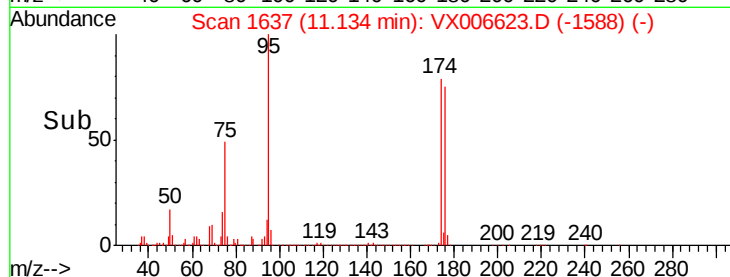
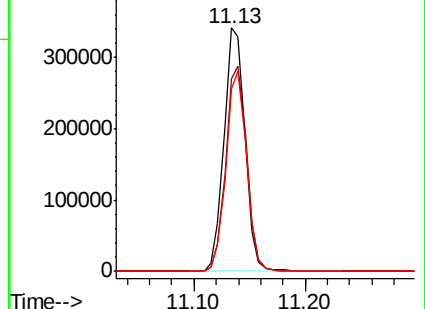
176 80.7 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006623.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006623.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006623.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

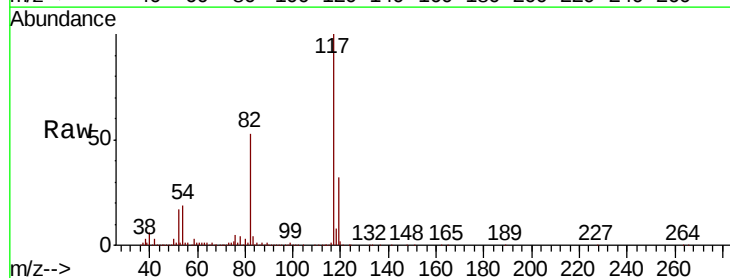
Tgt Ion: 117 Resp: 935163

Ion Ratio Lower Upper

117 100

82 53.1 39.6 59.4

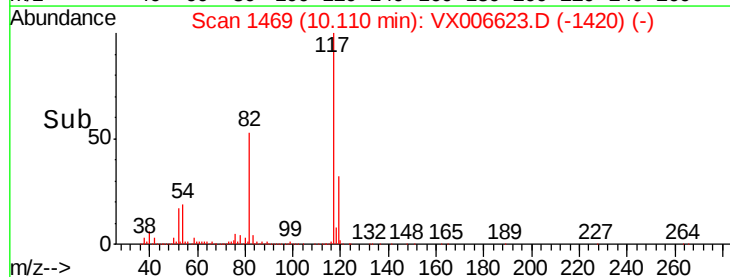
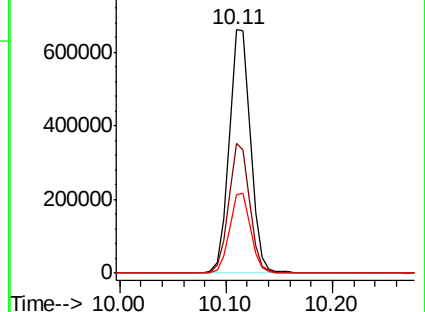
119 32.1 26.3 39.5

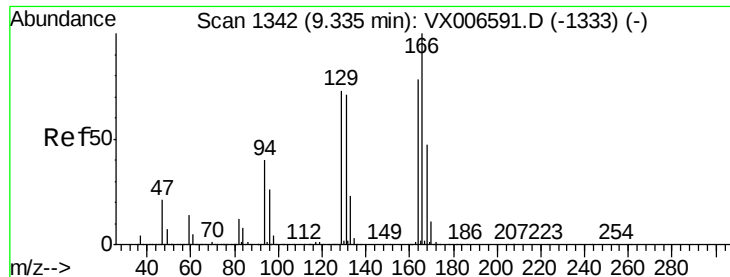


Abundance Ion 116.90 (116.60 to 117.60): VX006623.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006623.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006623.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.467 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

SA.PZ163I-20181208

Tot Ion:164 Resp: 3459

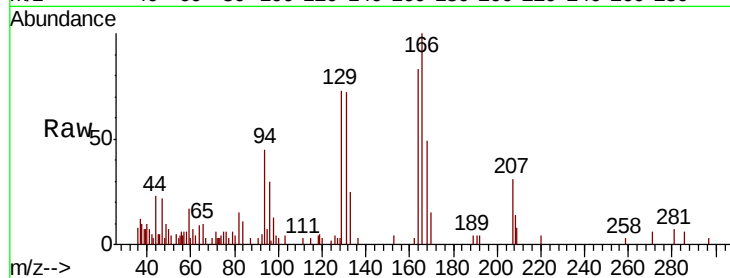
Ion Ratio Lower Upper

164 100

166 120.1 104.2 156.2

129 88.2 72.6 108.8

131 86.0 70.3 105.5

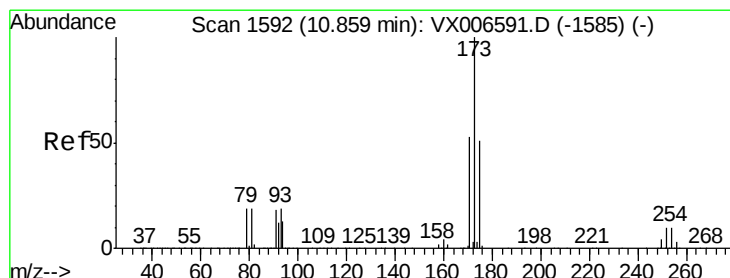
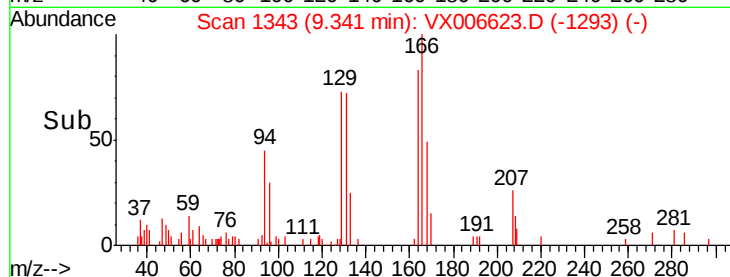
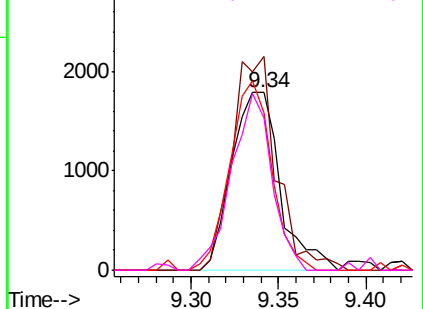


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 4.474 ug/l

RT: 10.85 min Scan# 1590

Delta R.T. -0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

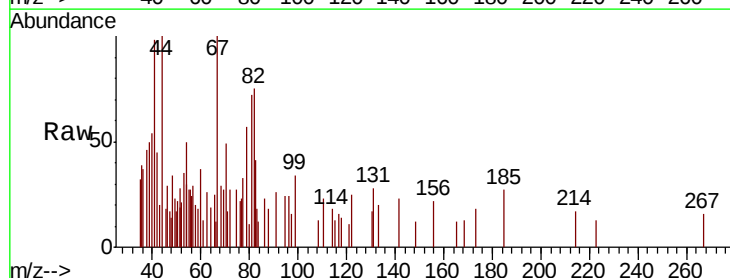
Tgt Ion:173 Resp: 86

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

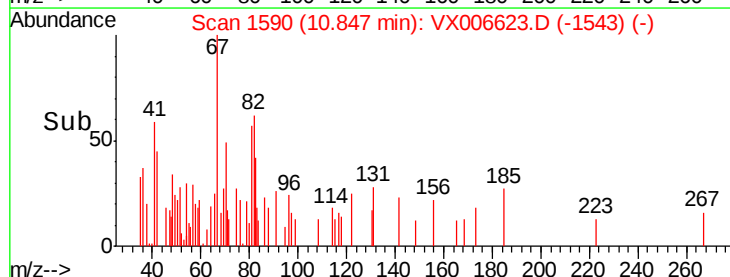
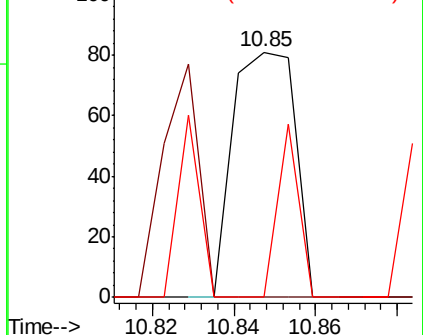
254 24.4 0.2 0.2#

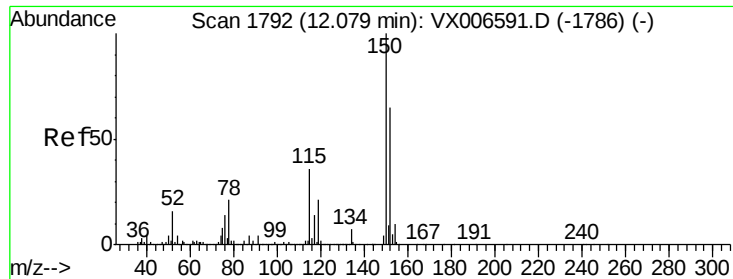


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



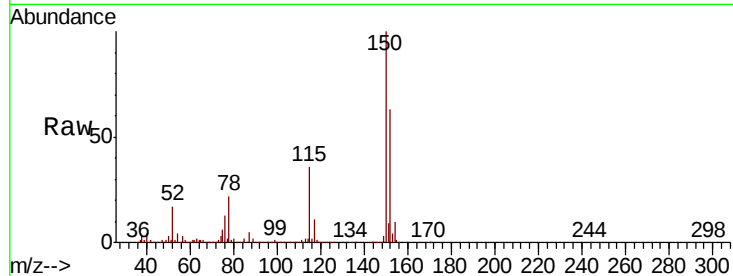


#72

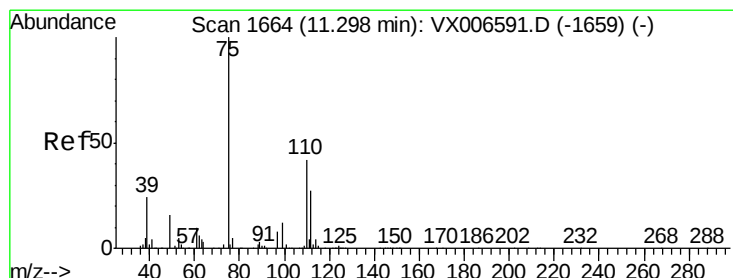
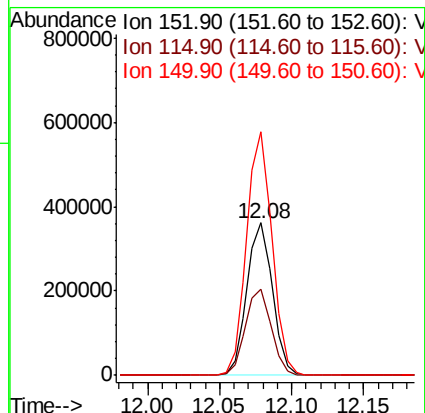
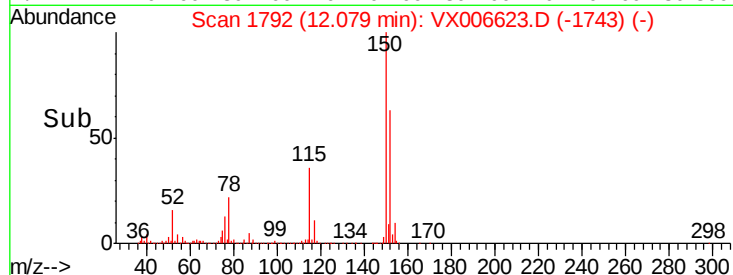
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Instrument :
MSVOA_X
ClientSampleId :
SA.PZ1631-20181208

Tot Ion:152 Resp: 444824
Ion Ratio Lower Upper
152 100
115 57.3 39.0 116.9
150 159.0 0.0 345.8



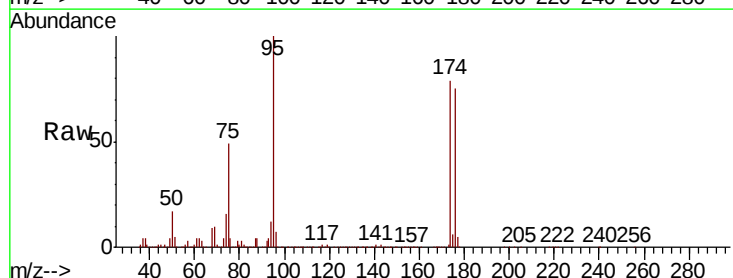
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



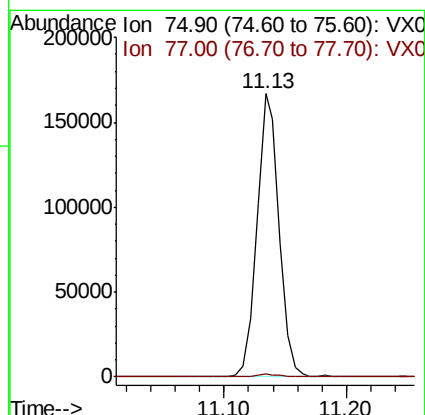
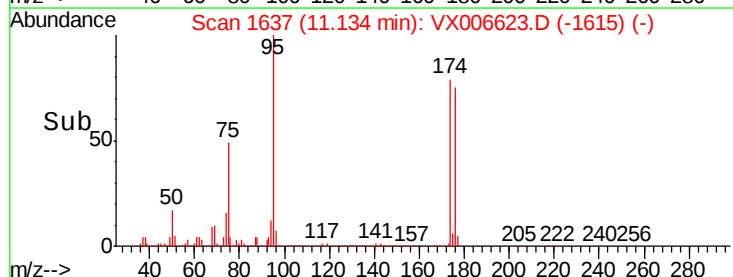
#76

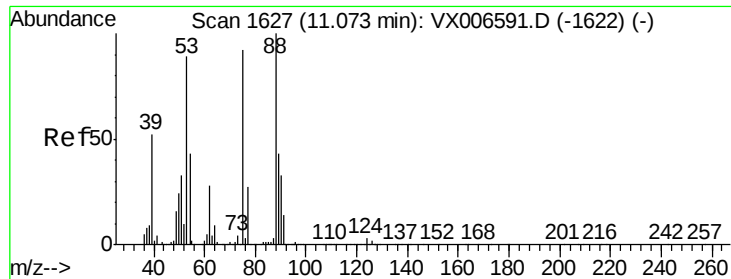
1,2,3-Trichloropropane
Concen: 27.019 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Tgt Ion: 75 Resp: 210648
Ion Ratio Lower Upper
75 100
77 1.3 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

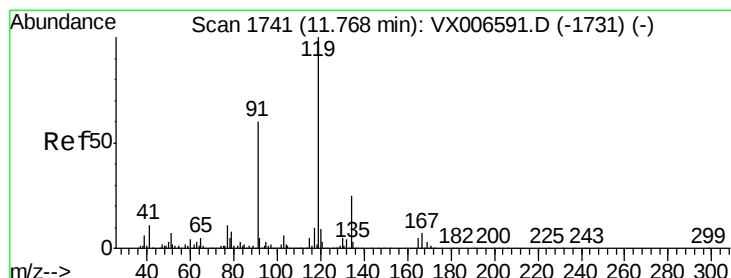
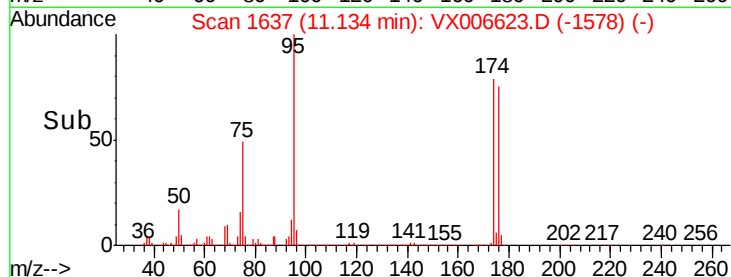
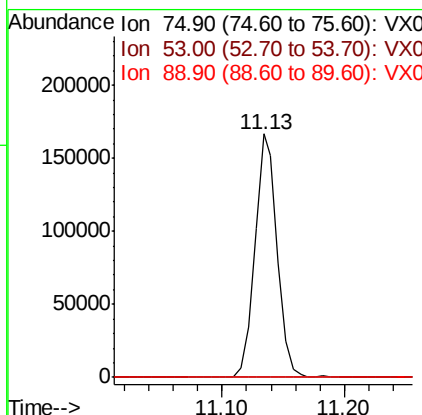
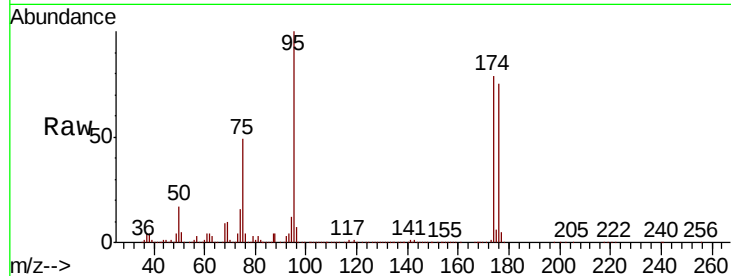




#81
trans-1,4-Dichloro-2-butene
Concen: 75.216 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

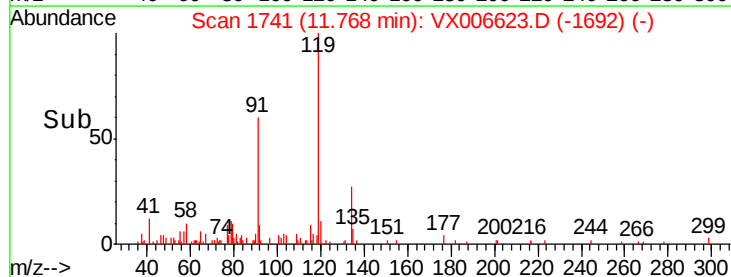
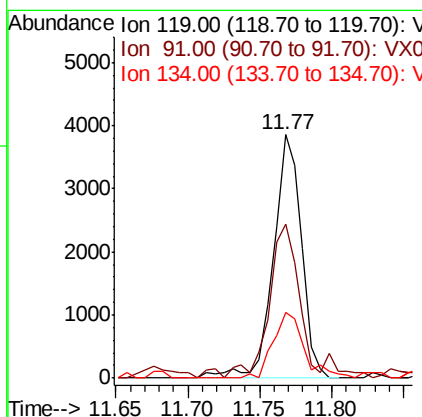
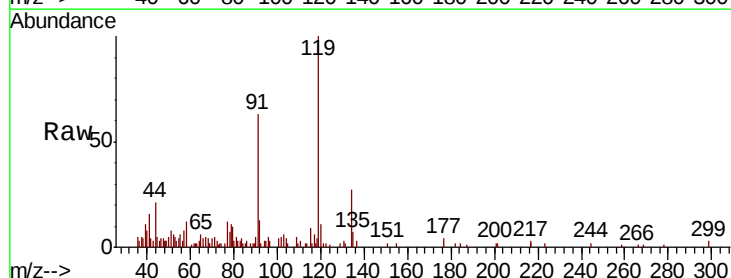
Instrument :
MSVOA_X
ClientSampleId :
SA.PZ163I-20181208

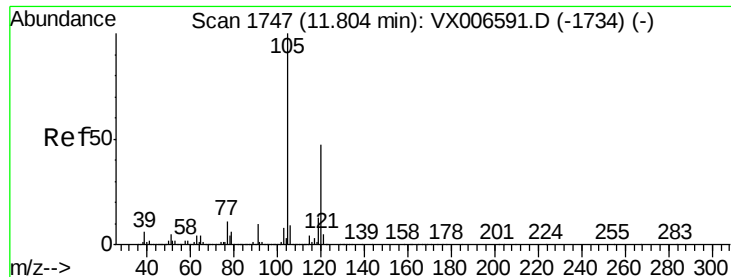
Tot Ion: 75 Resp: 210648
Ion Ratio Lower Upper
75 100
53 0.1 64.4 96.6#
89 0.2 44.2 66.4#



#83
tert-Butylbenzene
Concen: 0.210 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX006623.D
Acq: 19 Dec 2018 03:25

Tgt Ion: 119 Resp: 5256
Ion Ratio Lower Upper
119 100
91 66.3 26.4 79.2
134 29.6 11.6 34.7

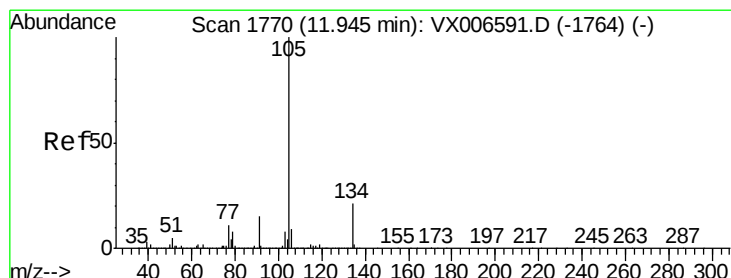
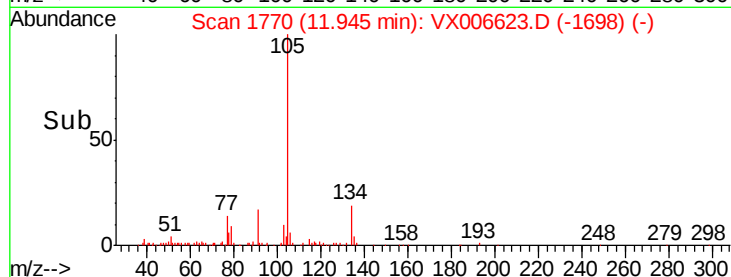
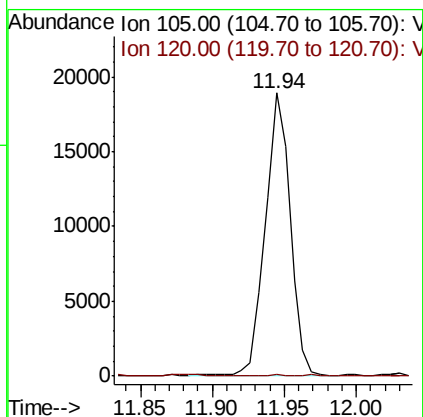
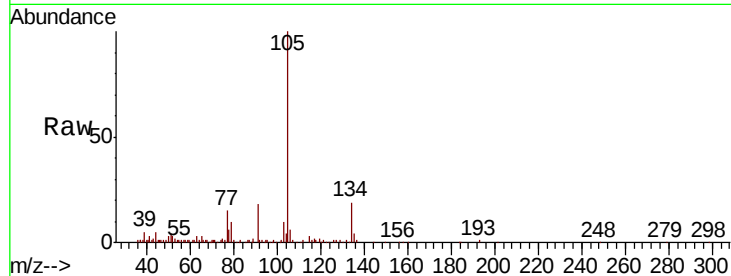




#84
 1,2,4-Trimethylbenzene
 Concen: 0.863 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.14 min
 Lab File: VX006623.D
 Acq: 19 Dec 2018 03:25

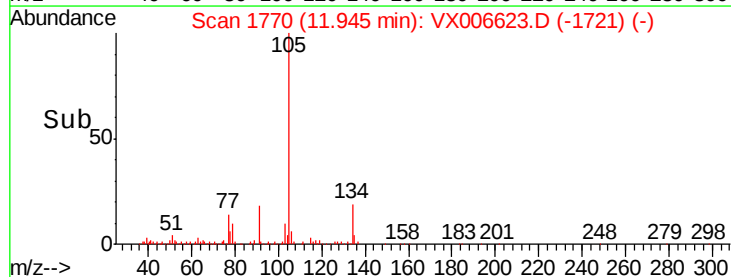
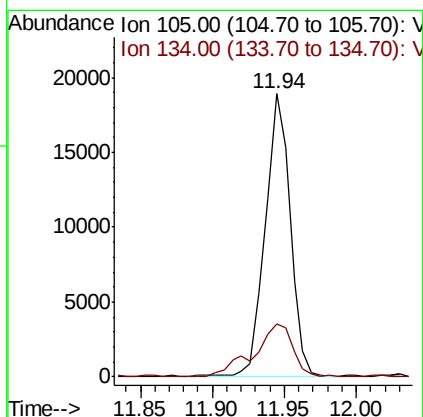
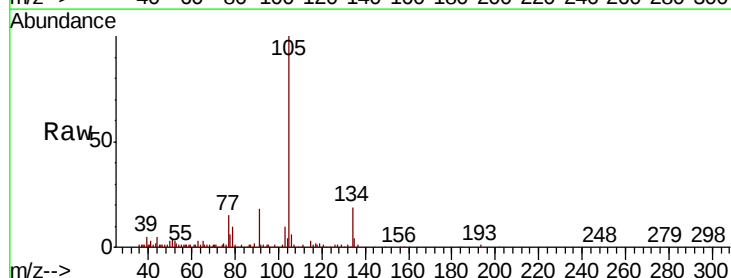
Instrument :
 MSVOA_X
 ClientSampleId :
 SA.PZ163I-20181208

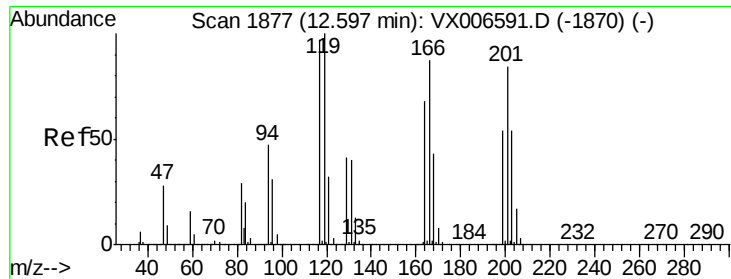
Tot Ion:105 Resp: 22761
 Ion Ratio Lower Upper
 105 100
 120 0.3 23.4 70.0#



#85
 sec-Butylbenzene
 Concen: 0.740 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX006623.D
 Acq: 19 Dec 2018 03:25

Tgt Ion:105 Resp: 22761
 Ion Ratio Lower Upper
 105 100
 134 29.3 10.8 32.4





#90

Hexachloroethane

Concen: 3.316 ug/l

RT: 12.62 min Scan# 1880

Delta R.T. 0.02 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

Instrument :

MSVOA_X

ClientSampleId :

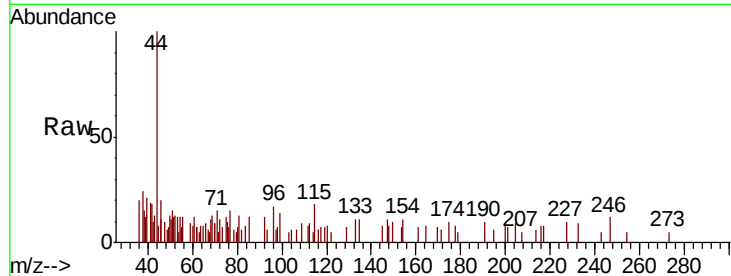
SA.PZ163I-20181208

Tot Ion:117 Resp: 101

Ion Ratio Lower Upper

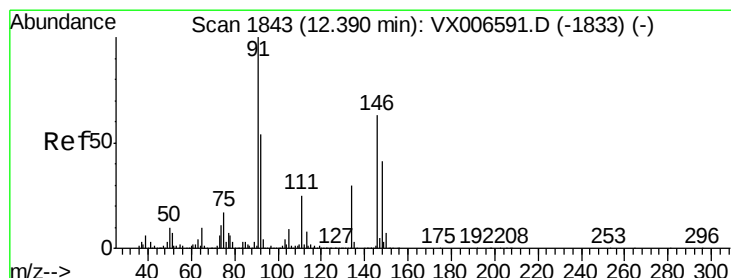
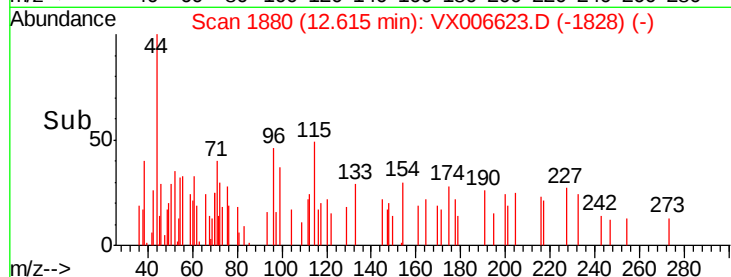
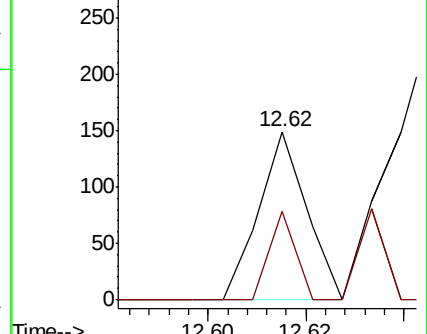
117 100

201 28.7 44.7 134.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.375 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX006623.D

Acq: 19 Dec 2018 03:25

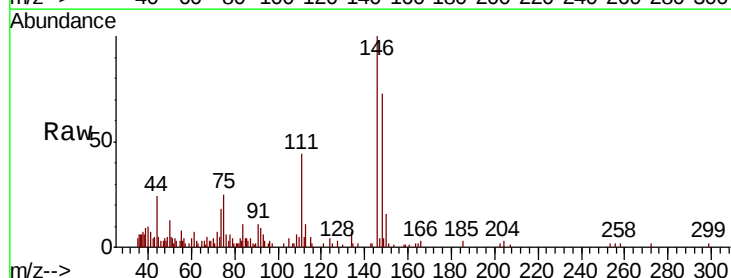
Tgt Ion:146 Resp: 5567

Ion Ratio Lower Upper

146 100

111 46.6 19.1 57.3

148 69.3 32.1 96.3



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

