

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006570.D
 Acq On : 17 Dec 2018 14:05
 Operator : JC/MD
 Sample : J6405-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-20181212

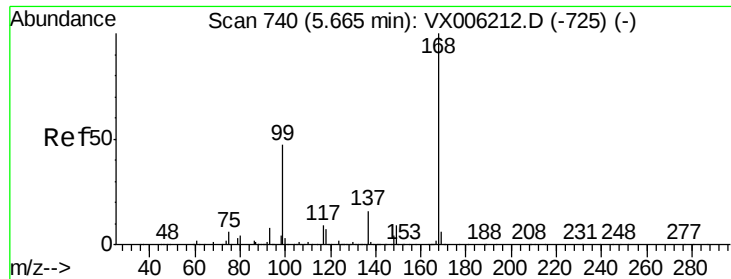
Quant Time: Dec 18 00:39:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	673800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1064933	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	967934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	459240	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	363670	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	5.50	113	324137	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	8.71	98	1262767	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
62) 4-Bromofluorobenzene	11.13	95	461730	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.39	101	118707	18.638	ug/l	99
11) Tert butyl alcohol	3.03	59	10013	5.323	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	30039	4.927	ug/l	94
13) Acrolein	2.31	56	259	0.252	ug/l #	73
16) Acetone	2.45	43	4841	1.500	ug/l	99
20) Methylene Chloride	2.86	84	1568	0.228	ug/l #	76
24) 1,1-Dichloroethane	3.70	63	10044	0.934	ug/l #	94
25) 2-Butanone	4.71	43	996	0.216	ug/l #	84
27) cis-1,2-Dichloroethene	4.60	96	16825	2.322	ug/l	84
29) Tetrahydrofuran	5.16	42	2203	0.688	ug/l #	80
30) Chloroform	5.21	83	9527	0.843	ug/l #	80
31) Cyclohexane	5.67	56	12334	1.241	ug/l #	1
32) 1,1,1-Trichloroethane	5.51	97	3653	0.340	ug/l #	41
36) 1,1-Dichloropropene	5.67	75	45441	5.067	ug/l #	49
38) Carbon Tetrachloride	5.77	117	8952	0.849	ug/l	88
39) Methylcyclohexane	7.21	83	62040	5.330	ug/l #	1
42) 1,2-Dichloroethane	6.20	62	2136	0.243	ug/l	89
44) Trichloroethene	7.21	130	5680275	698.090	ug/l	92
49) 1,4-Dioxane	7.76	88	1599	7.964	ug/l	96
55) 1,1,2-Trichloroethane	9.21	97	4423	0.616	ug/l	91
60) Dibromochloromethane	9.33	129	10490	1.185	ug/l #	11
64) Tetrachloroethene	9.34	164	10713	1.470	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	214603	24.210	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	214603	56.815	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

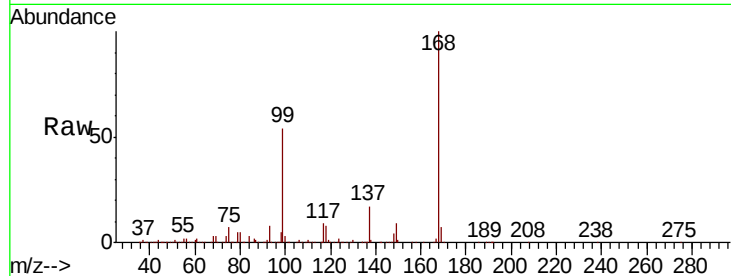
TT101D2-20181212

Tot Ion:168 Resp: 673800

Ion Ratio Lower Upper

168 100

99 53.8 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

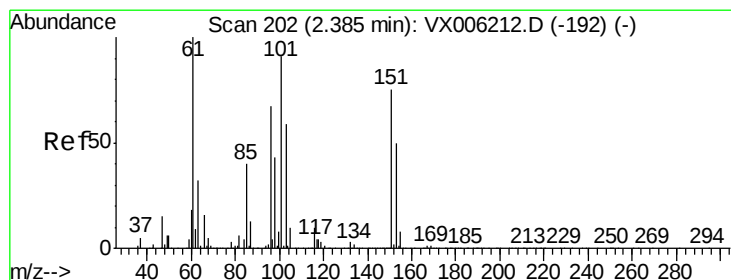
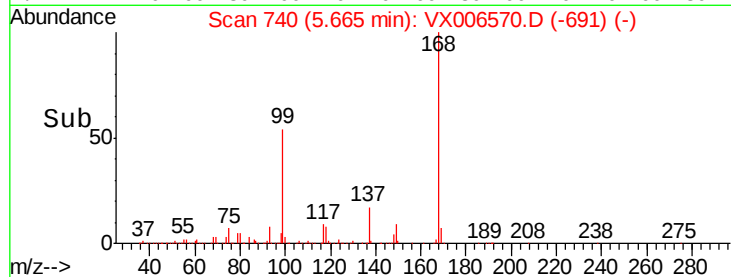
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.638 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

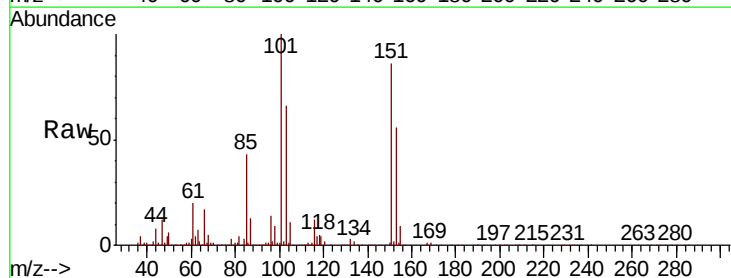
Tgt Ion:101 Resp: 118707

Ion Ratio Lower Upper

101 100

85 43.6 35.5 53.3

151 87.1 68.6 103.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

80000

60000

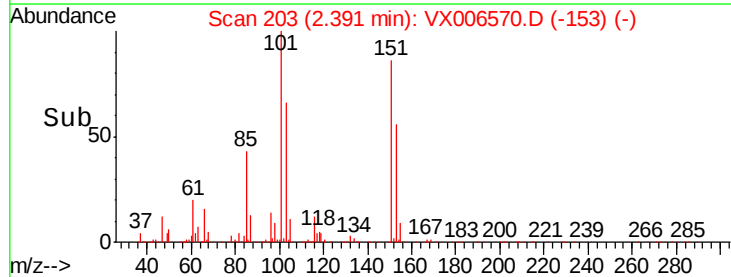
40000

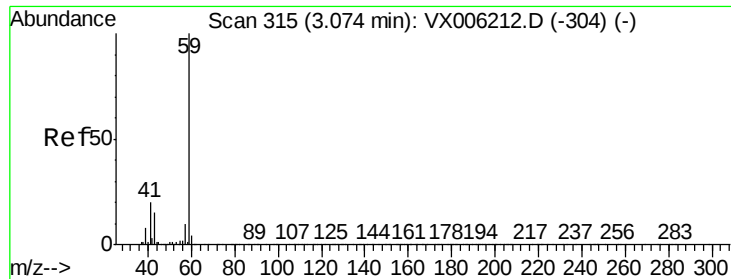
20000

0

Time-->

2.30 2.40 2.50

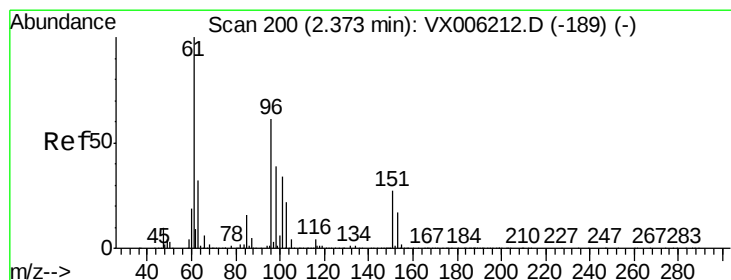
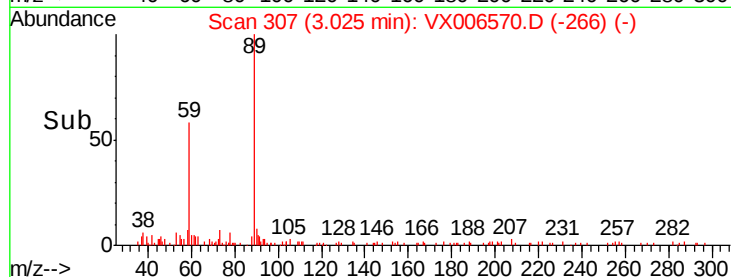
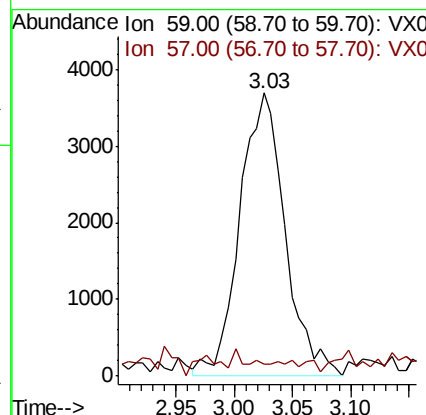
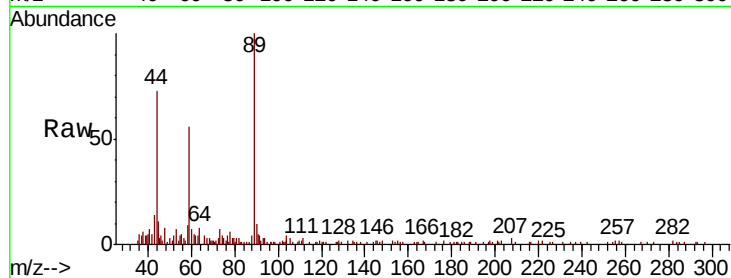




#11
Tert butyl alcohol
Concen: 5.323 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

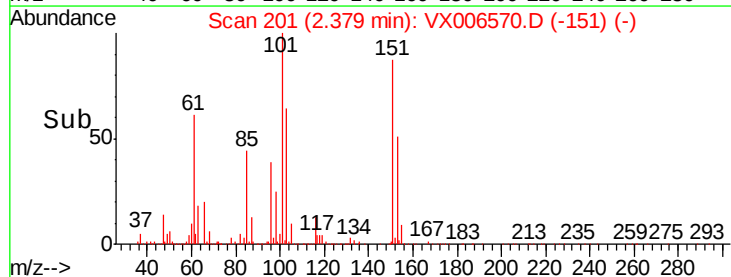
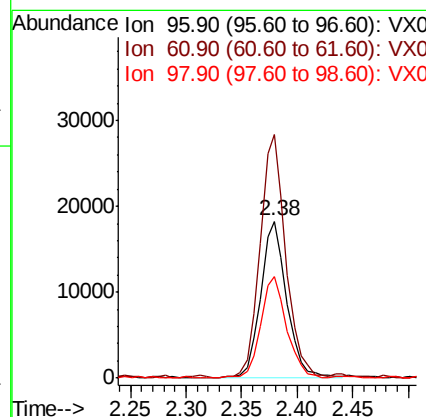
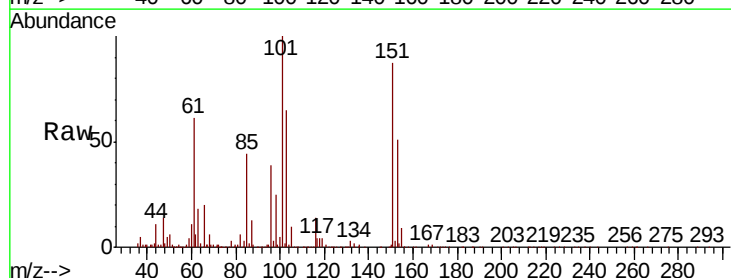
Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20181212

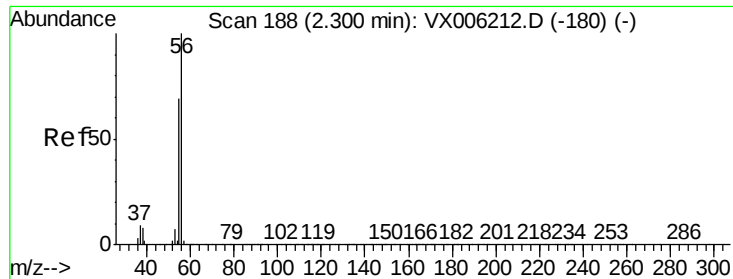
Tot Ion: 59 Resp: 10013
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 4.927 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

Tgt Ion: 96 Resp: 30039
Ion Ratio Lower Upper
96 100
61 154.2 131.7 197.5
98 64.0 51.8 77.6





#13

Acrolein

Concen: 0.252 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

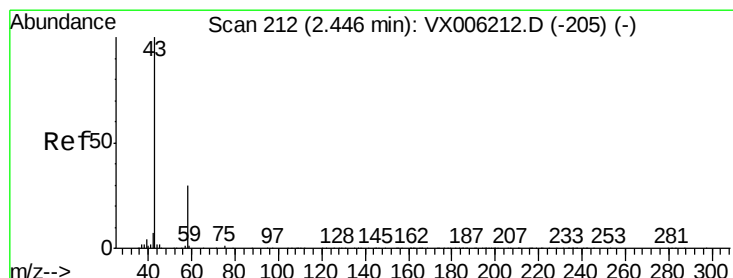
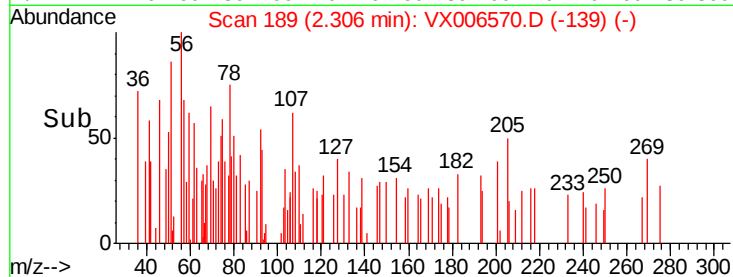
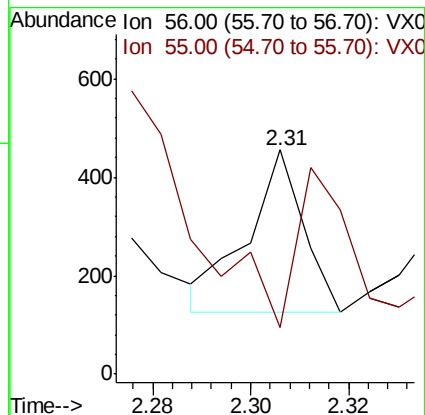
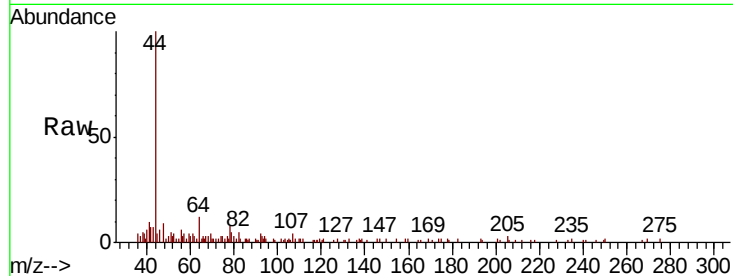
TT101D2-20181212

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

56 100

55 94.6 57.8 86.6#



#16

Acetone

Concen: 1.500 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006570.D

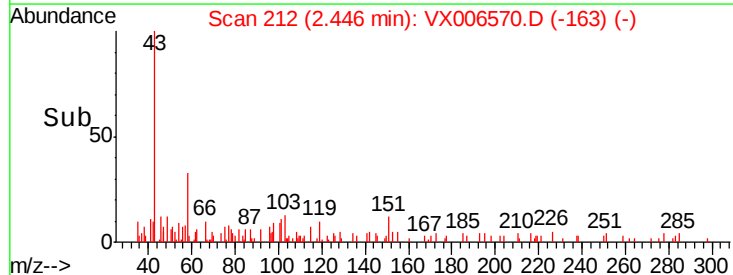
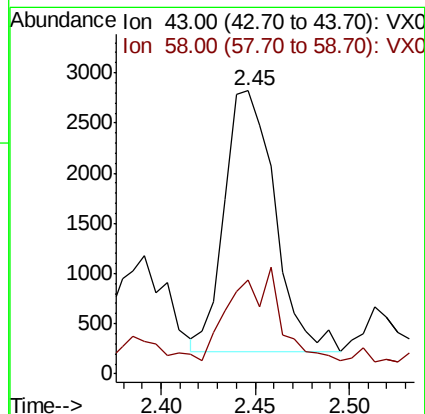
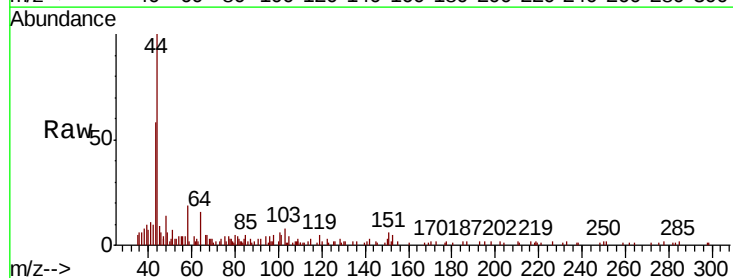
Acq: 17 Dec 2018 14:05

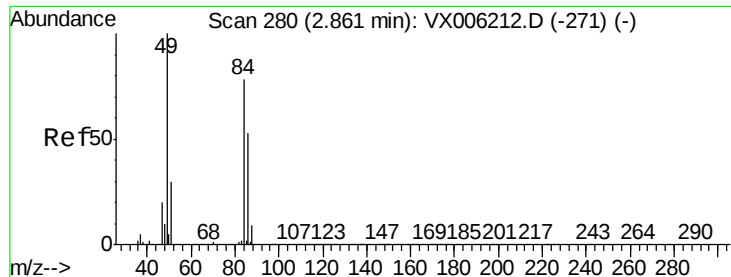
Tgt Ion: 43 Resp: 4841

Ion Ratio Lower Upper

43 100

58 30.7 24.0 36.0

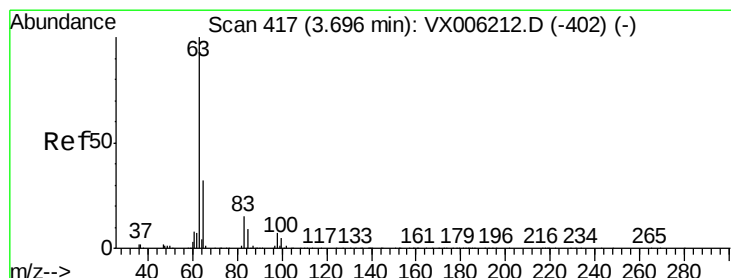
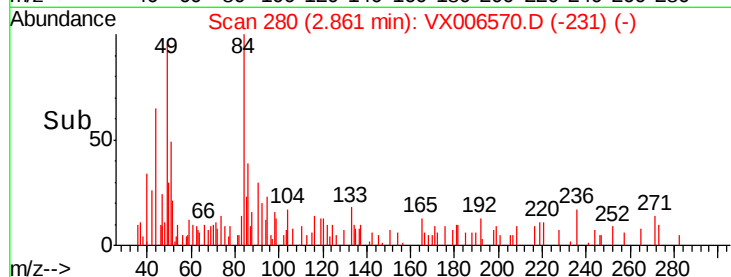
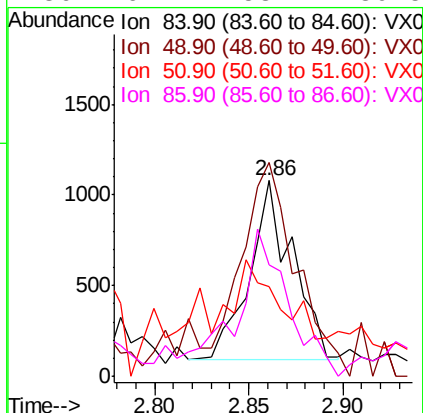
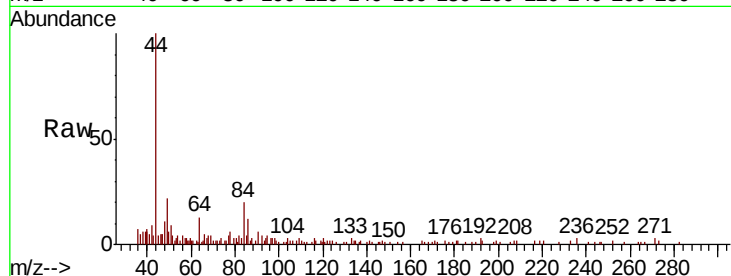




#20
Methvlene Chloride
Concen: 0.228 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

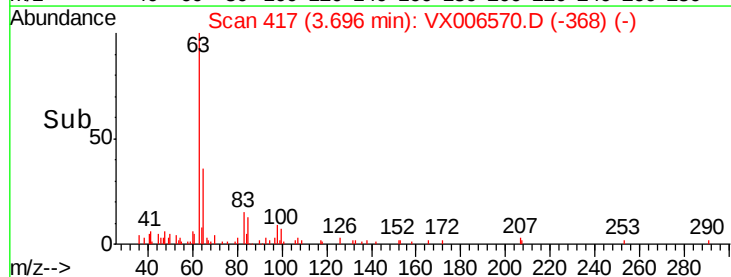
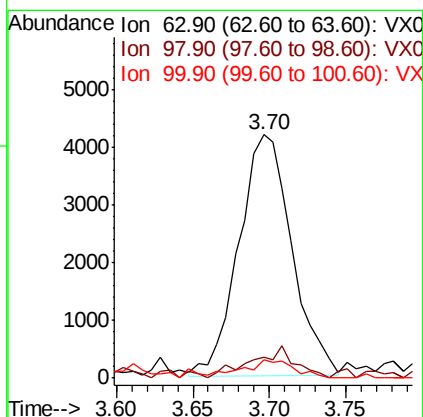
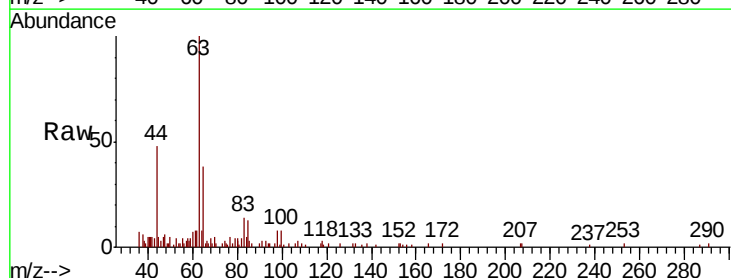
Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20181212

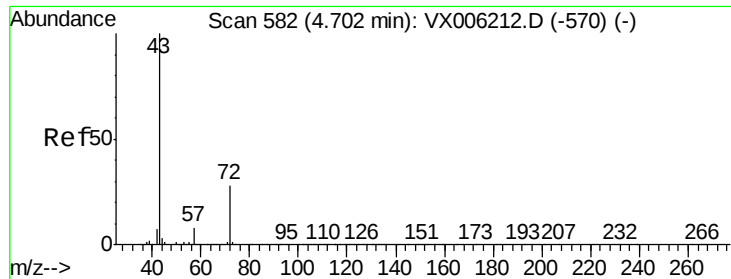
Tot Ion: 84 Resp: 1568
Ion Ratio Lower Upper
84 100
49 88.3 102.2 153.4#
51 25.1 31.1 46.7#
86 62.4 53.7 80.5



#24
1,1-Dichloroethane
Concen: 0.934 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

Tgt Ion: 63 Resp: 10044
Ion Ratio Lower Upper
63 100
98 6.0 3.8 11.4
100 7.8 2.5 7.4#

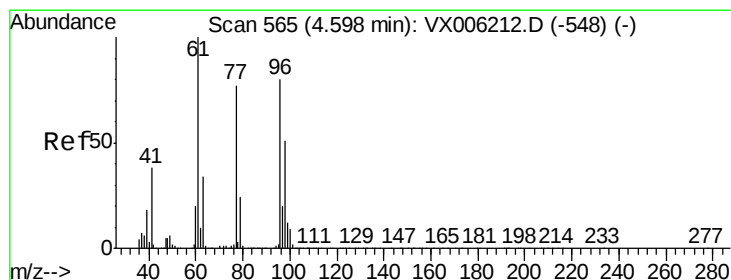
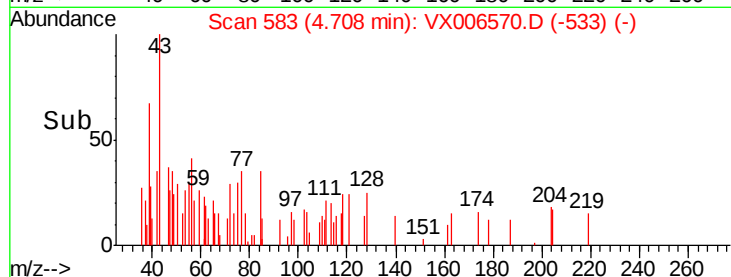
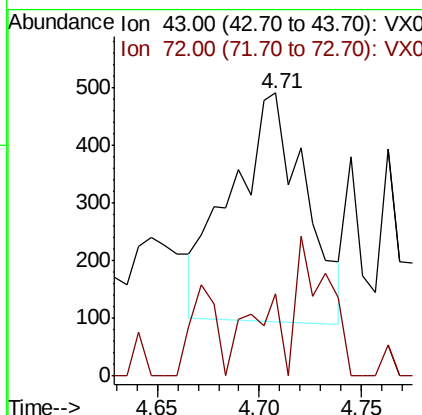
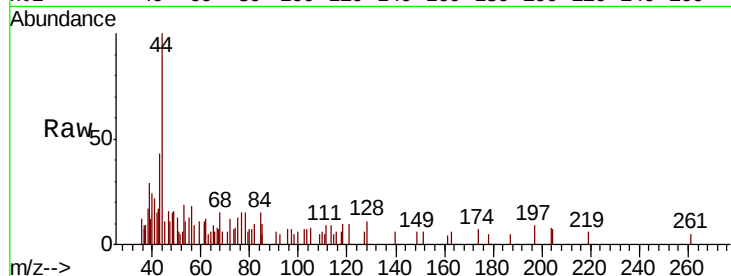




#25
2-Butanone
Concen: 0.216 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

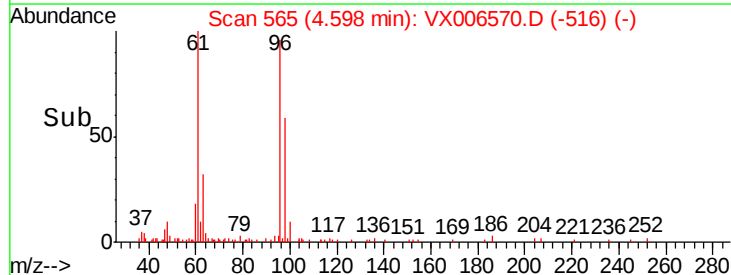
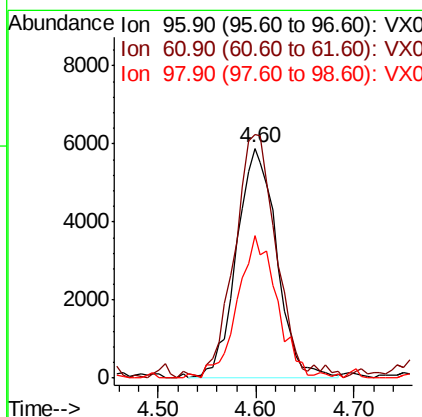
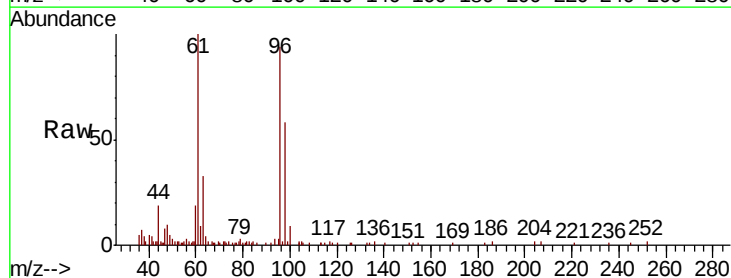
Instrument :
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ClientSampleId :
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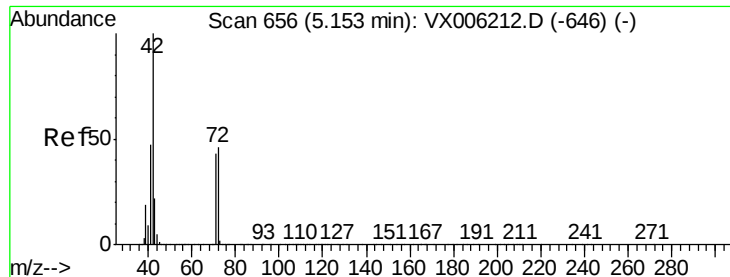
Tot Ion: 43 Resp: 996
Ion Ratio Lower Upper
43 100
72 19.9 22.6 33.8#



#27
cis-1,2-Dichloroethene
Concen: 2.322 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX006570.D
Acq: 17 Dec 2018 14:05

Tgt Ion: 96 Resp: 16825
Ion Ratio Lower Upper
96 100
61 107.7 0.0 265.0
98 60.7 0.0 130.2





#29

Tetrahydrofuran

Concen: 0.688 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20181212

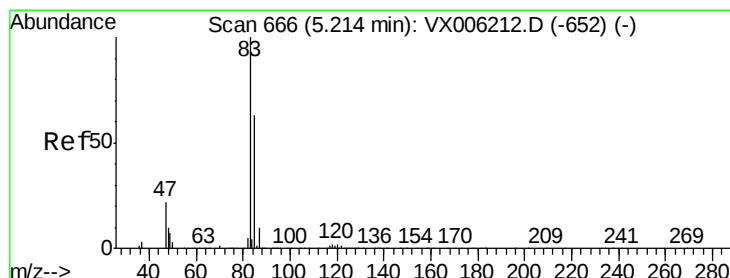
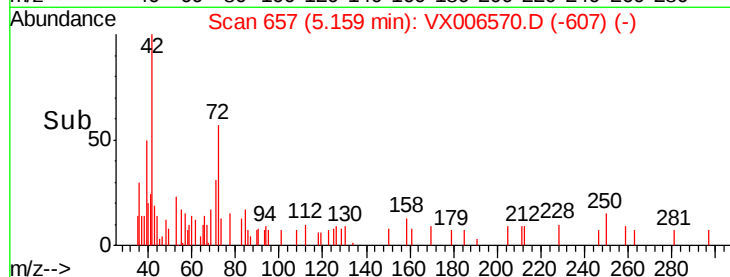
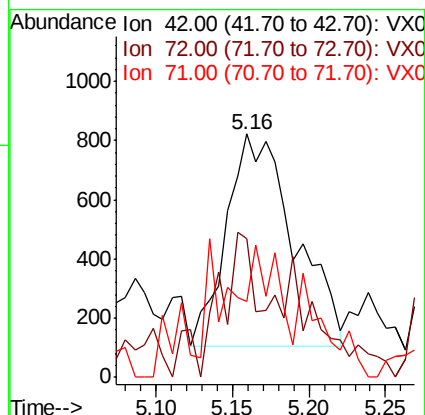
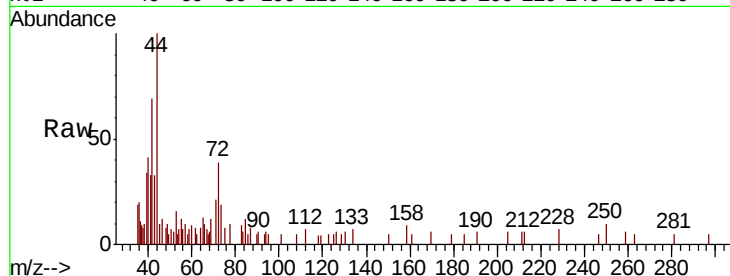
Tot Ion: 42 Resp: 2203

Ion Ratio Lower Upper

42 100

72 41.1 37.8 56.8

71 24.0 35.2 52.8#



#30

Chloroform

Concen: 0.843 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX006570.D

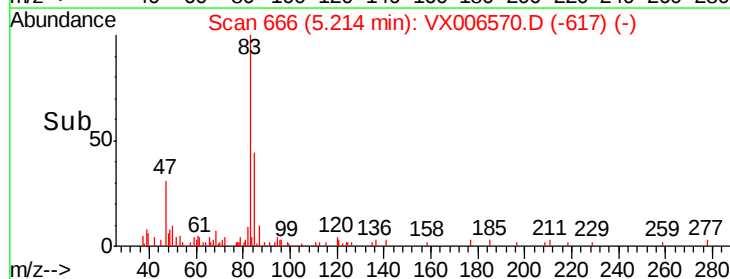
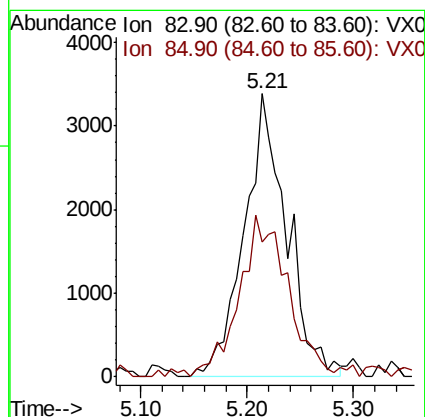
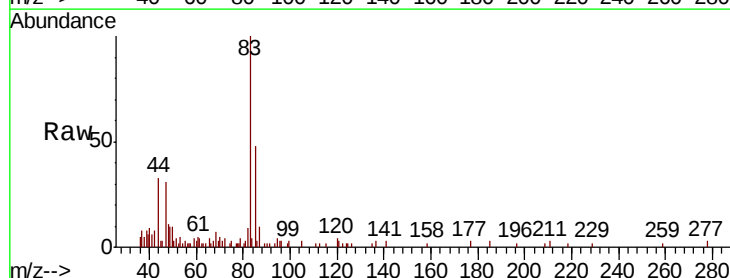
Acq: 17 Dec 2018 14:05

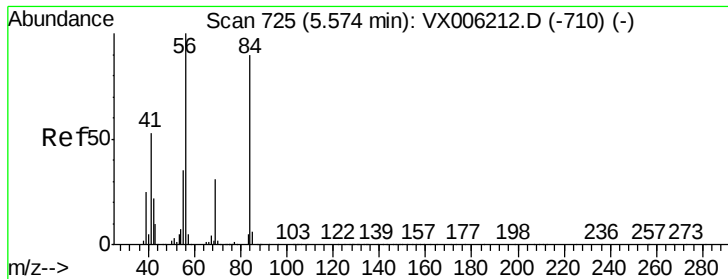
Tgt Ion: 83 Resp: 9527

Ion Ratio Lower Upper

83 100

85 47.6 50.3 75.5#





#31

Cyclohexane

Concen: 1.241 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

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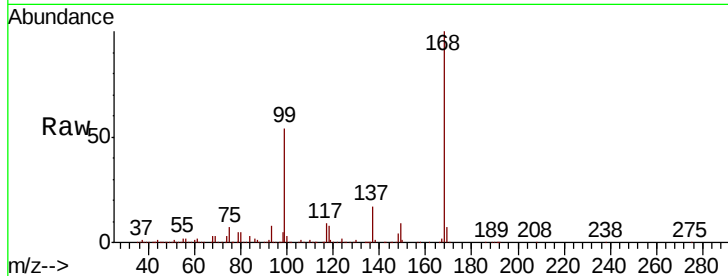
Tot Ion: 56 Resp: 12334

Ion Ratio Lower Upper

56 100

69 170.9 24.5 36.7#

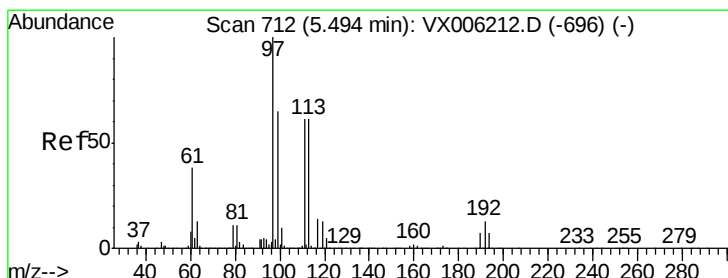
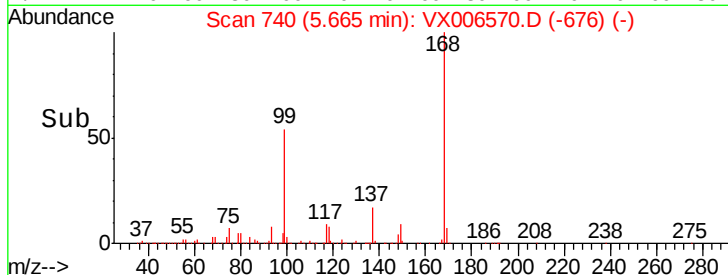
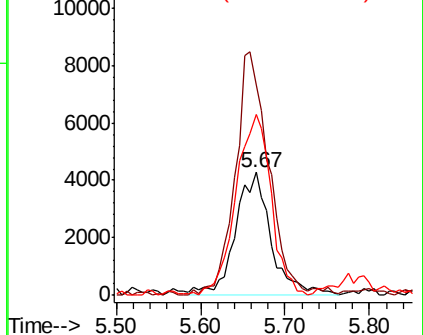
84 145.9 71.8 107.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.340 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

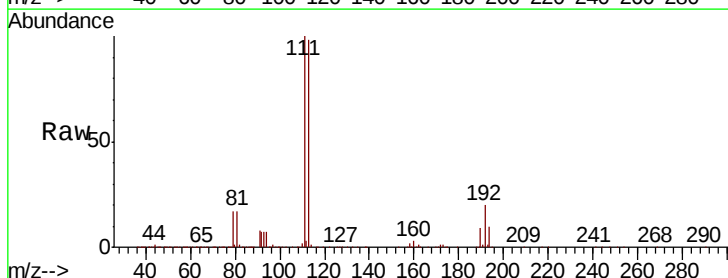
Tgt Ion: 97 Resp: 3653

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

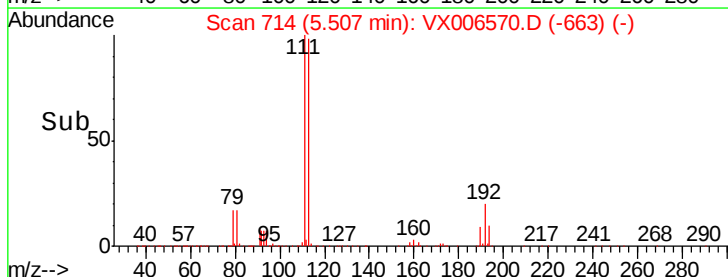
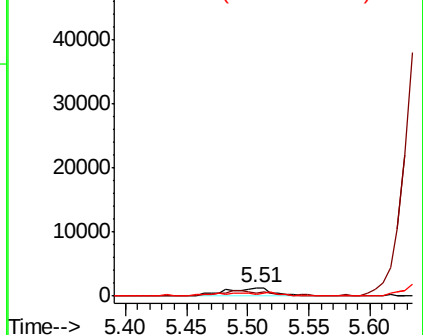
61 25.7 30.6 46.0#

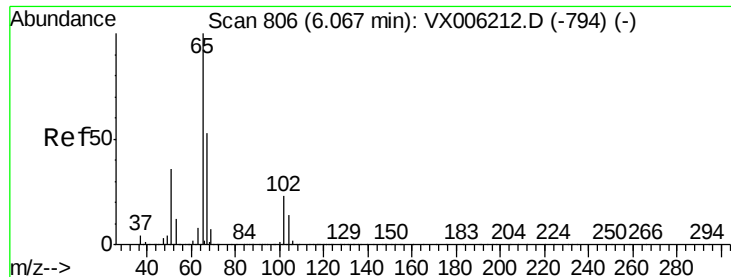


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

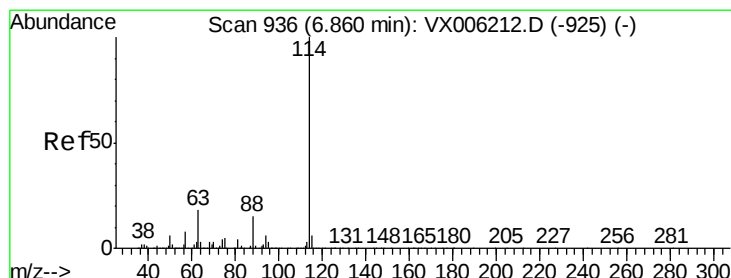
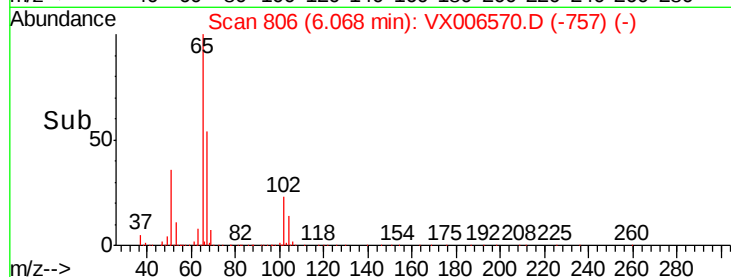
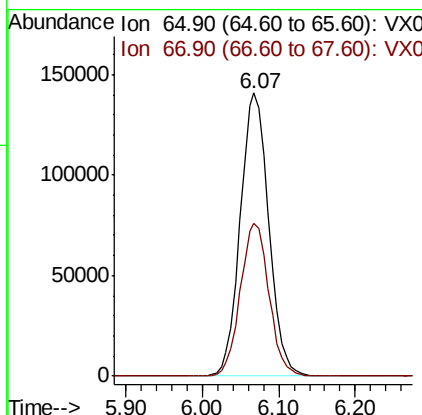
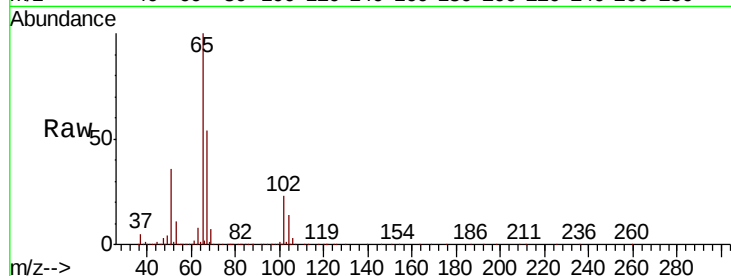




#33
 1,2-Dichloroethane-d4
 Concen: 52.871 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006570.D
 Acq: 17 Dec 2018 14:05

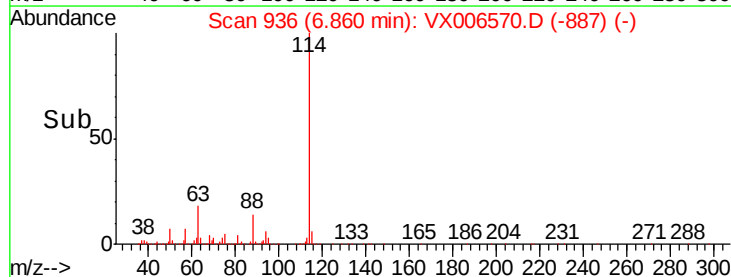
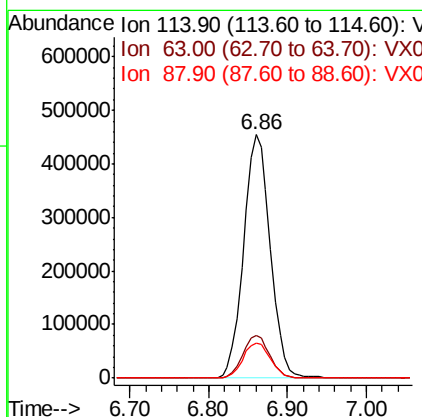
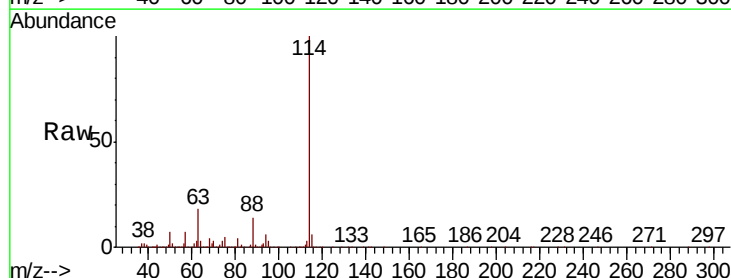
Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-20181212

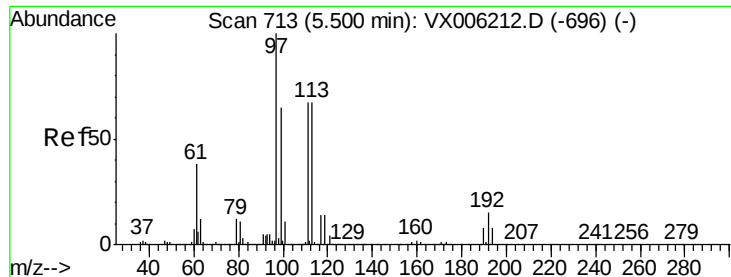
Tot Ion: 65 Resp: 363670
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006570.D
 Acq: 17 Dec 2018 14:05

Tgt Ion: 114 Resp: 1064933
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.6
 88 14.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.010 ug/l

RT: 5.50 min Scan# 713

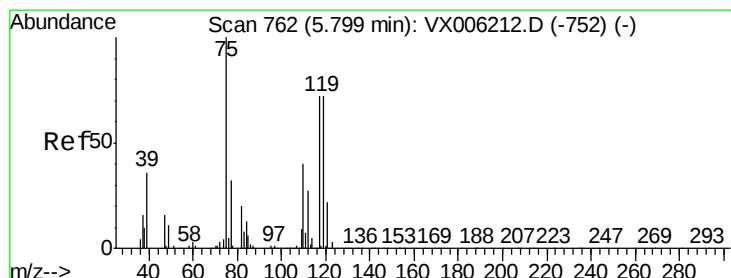
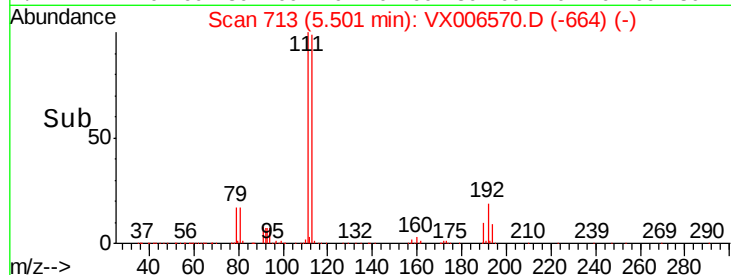
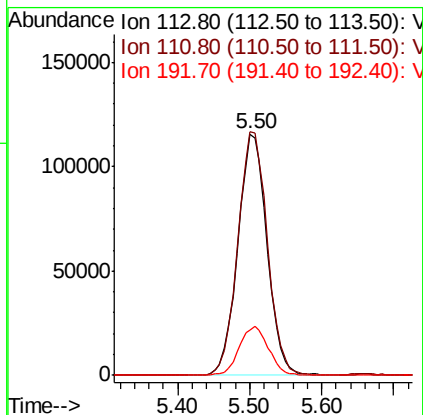
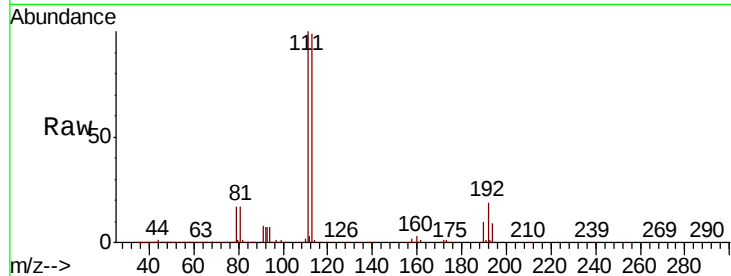
Delta R.T. 0.00 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20181212

Tot Ion:113	Resp:	324137
Ion Ratio	Lower	Upper
113	100	
111	102.2	81.1 121.7
192	20.4	18.2 27.2



#36

1,1-Dichloropropene

Concen: 5.067 ug/l

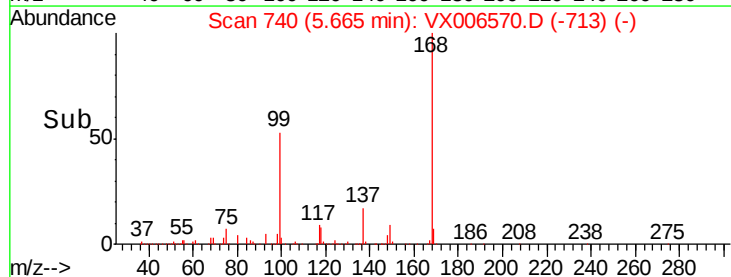
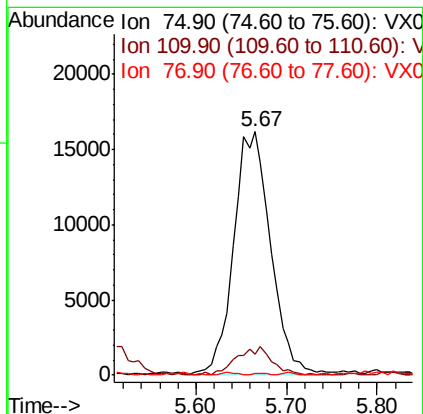
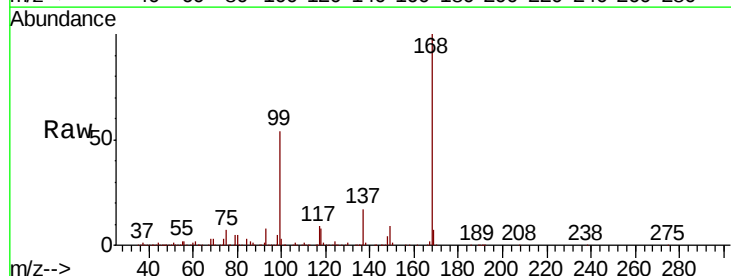
RT: 5.67 min Scan# 740

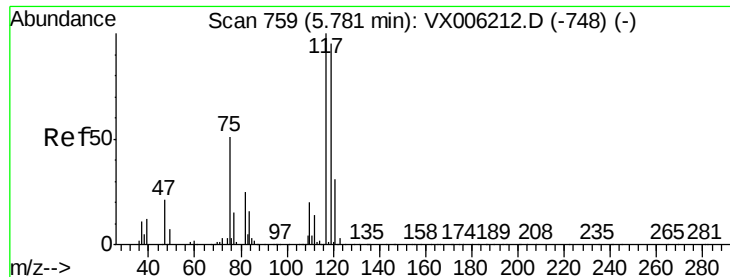
Delta R.T. -0.13 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Tgt Ion: 75	Resp:	45441
Ion Ratio	Lower	Upper
75	100	
110	11.1	20.4 61.3#
77	0.3	24.9 37.3#





#38

Carbon Tetrachloride

Concen: 0.849 ug/l

RT: 5.77 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20181212

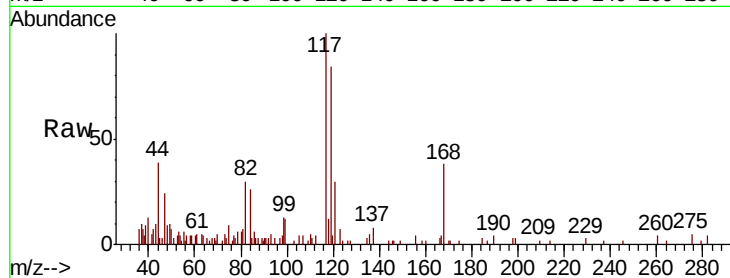
Tot Ion:117 Resp: 8952

Ion Ratio Lower Upper

117 100

119 79.9 75.8 113.8

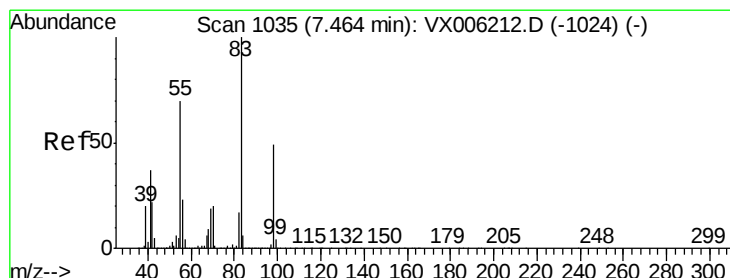
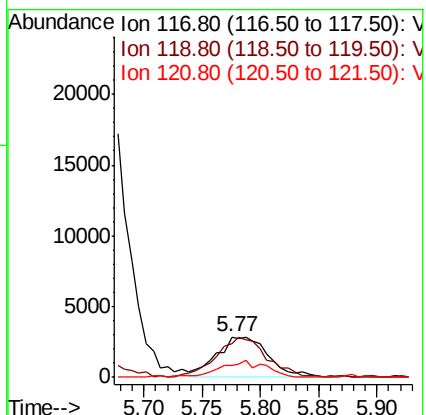
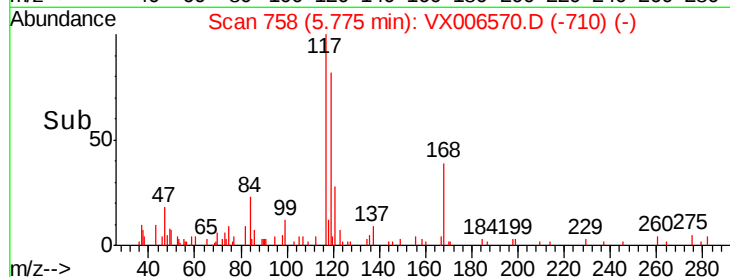
121 29.8 24.6 37.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 5.330 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

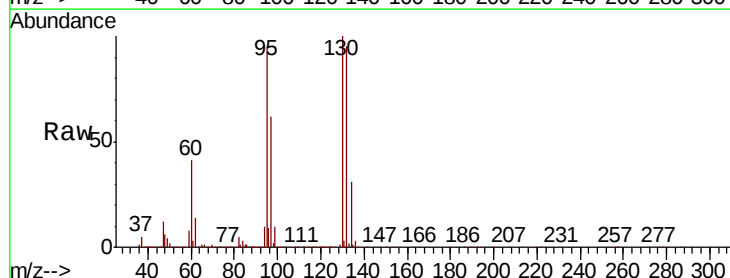
Tgt Ion: 83 Resp: 62040

Ion Ratio Lower Upper

83 100

55 0.0 56.4 84.6#

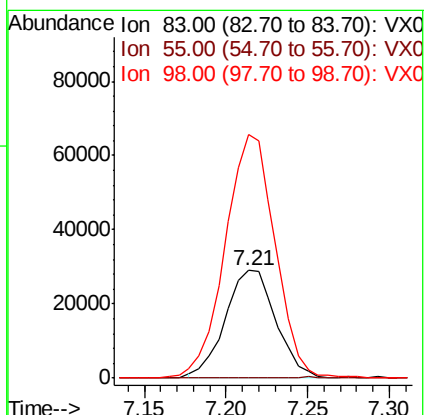
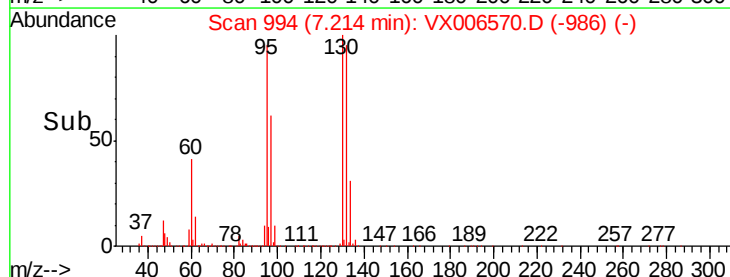
98 225.7 39.0 58.6#

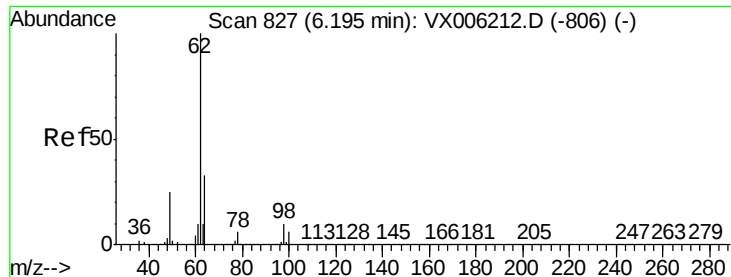


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.243 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

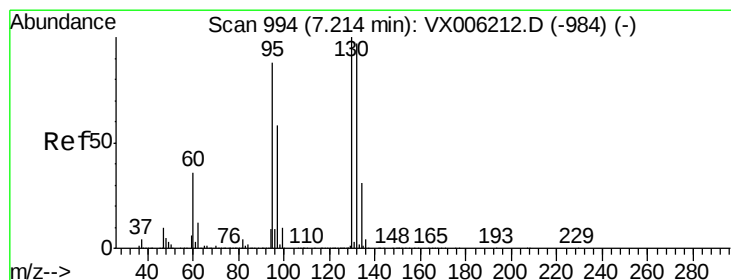
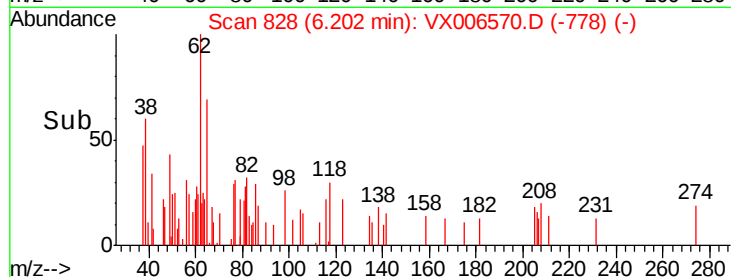
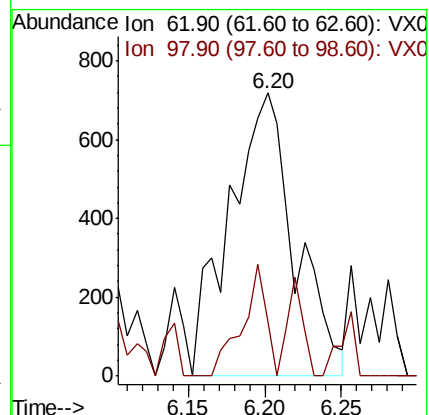
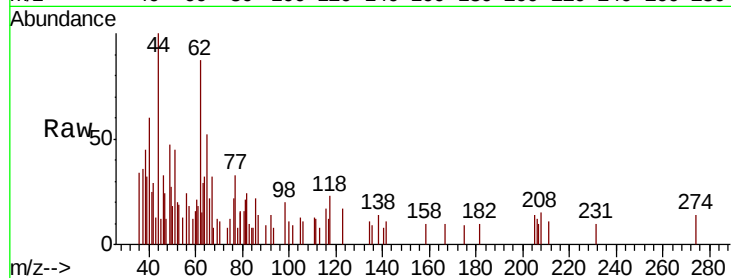
Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20181212

Tot Ion: 62 Resp: 2136

Ion Ratio Lower Upper

62 100

98 14.3 0.0 20.2



#44

Trichloroethene

Concen: 698.090 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006570.D

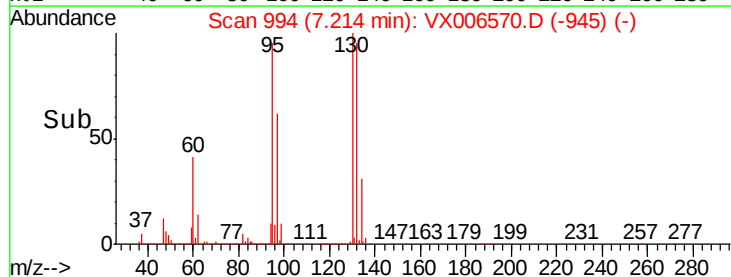
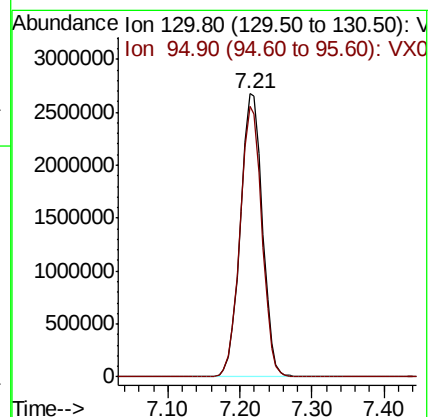
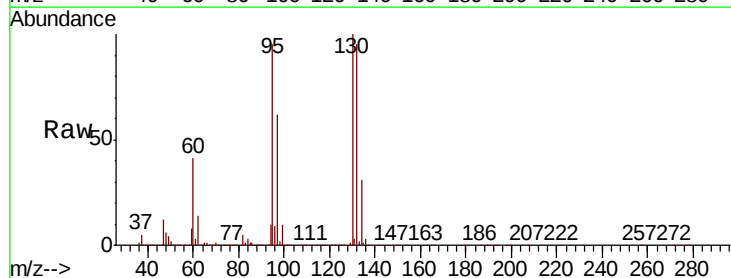
Acq: 17 Dec 2018 14:05

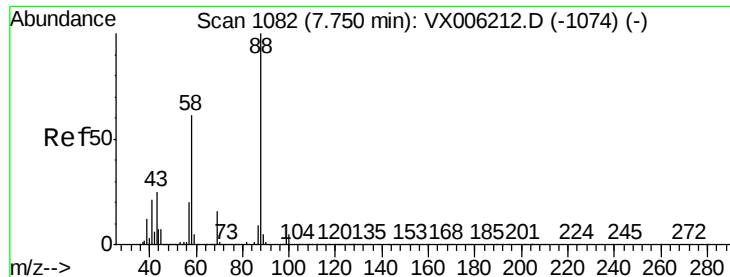
Tgt Ion:130 Resp: 5680275

Ion Ratio Lower Upper

130 100

95 95.5 0.0 175.8





#49

1,4-Dioxane

Concen: 7.964 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20181212

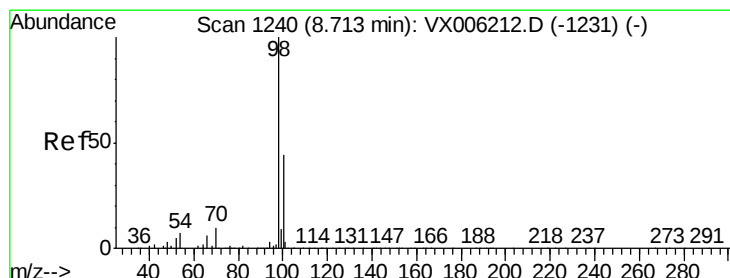
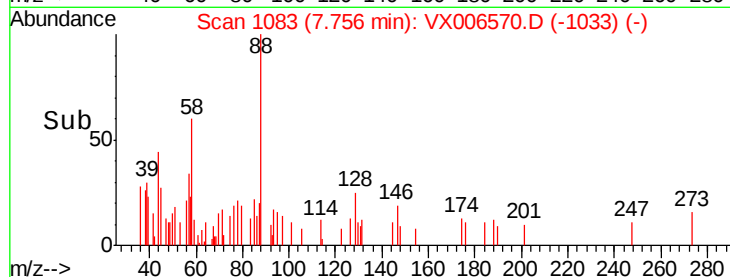
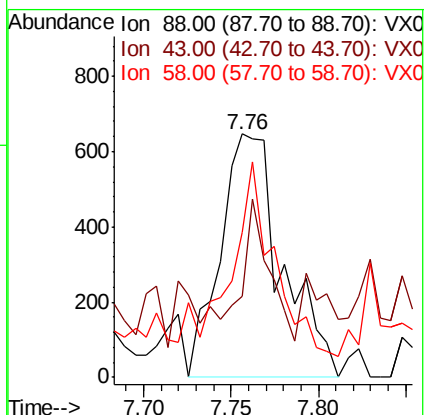
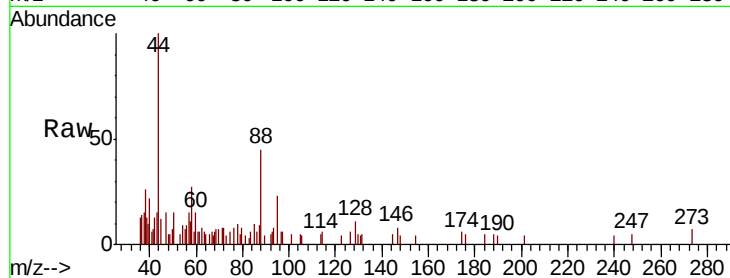
Tot Ion: 88 Resp: 1599

Ion Ratio Lower Upper

88 100

43 24.0 23.2 34.8

58 63.1 51.4 77.0



#50

Toluene-d8

Concen: 50.349 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006570.D

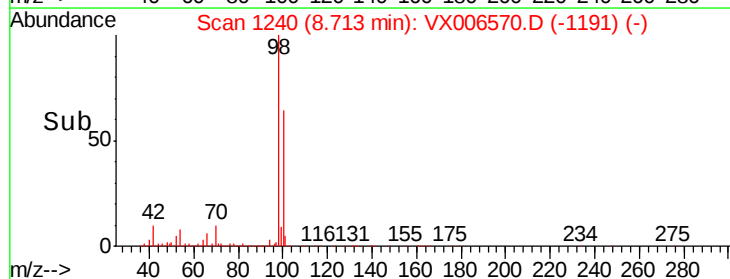
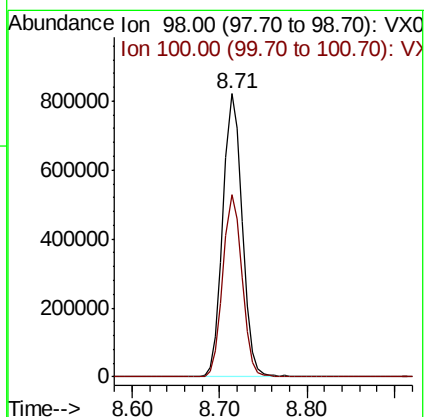
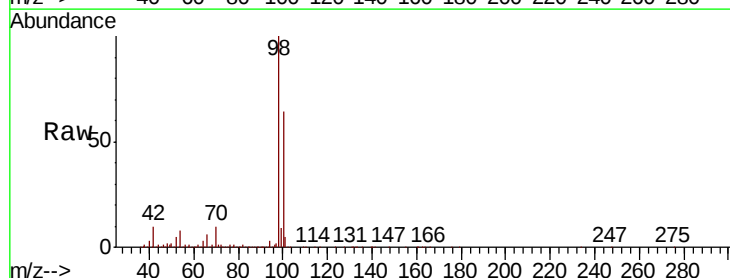
Acq: 17 Dec 2018 14:05

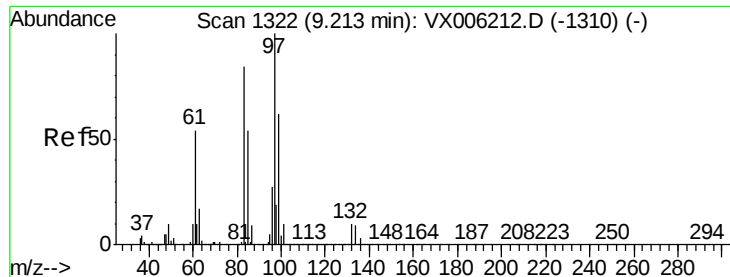
Tgt Ion: 98 Resp: 1262767

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.2

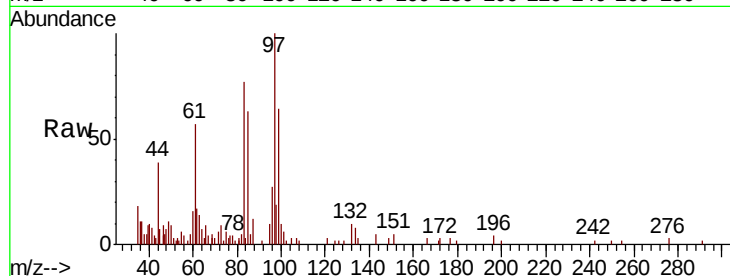




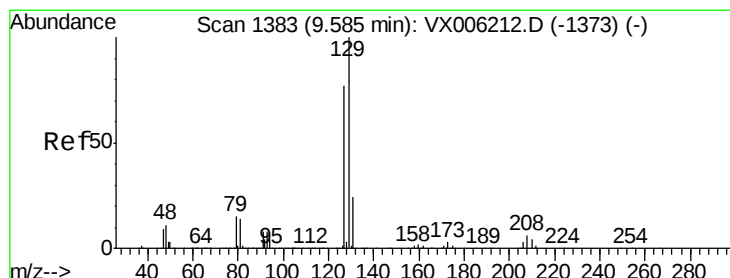
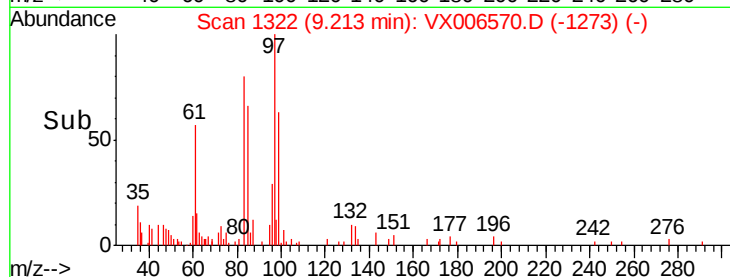
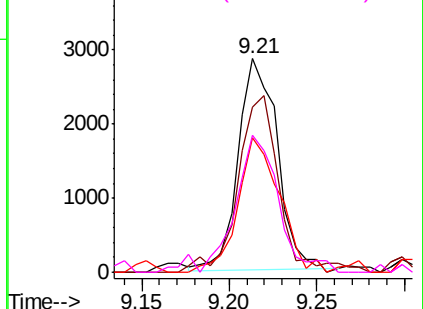
#55
 1,1,2-Trichloroethane
 Concen: 0.616 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX006570.D
 Acq: 17 Dec 2018 14:05

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-20181212

Tot Ion: 97 Resp: 4423
 Ion Ratio Lower Upper
 97 100
 83 74.2 67.1 100.7
 85 64.0 43.2 64.8
 99 65.1 49.8 74.6

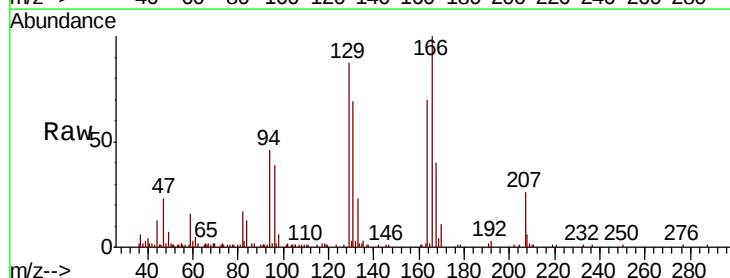


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

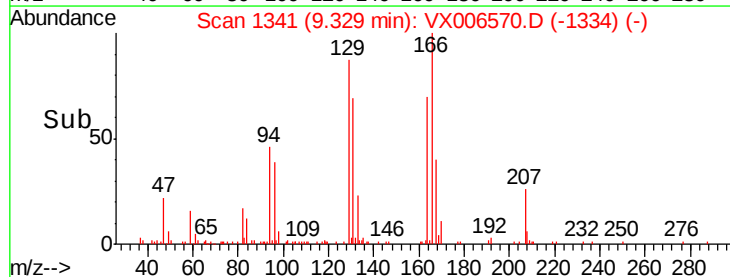
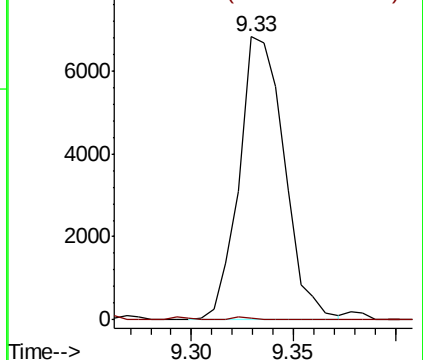


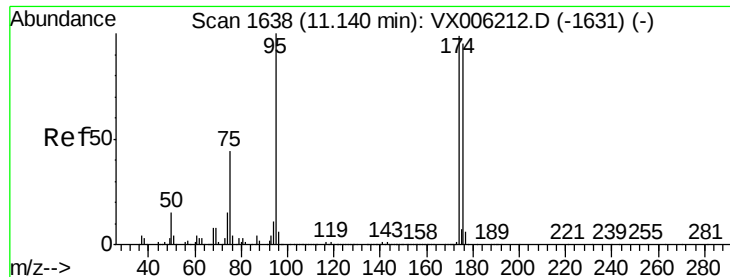
#60
 Dibromochloromethane
 Concen: 1.185 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. -0.26 min
 Lab File: VX006570.D
 Acq: 17 Dec 2018 14:05

Tgt Ion: 129 Resp: 10490
 Ion Ratio Lower Upper
 129 100
 127 0.4 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 48.856 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20181212

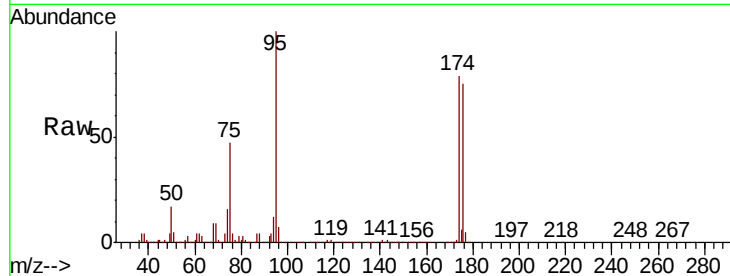
Tot Ion: 95 Resp: 461730

Ion Ratio Lower Upper

95 100

174 85.8 0.0 187.0

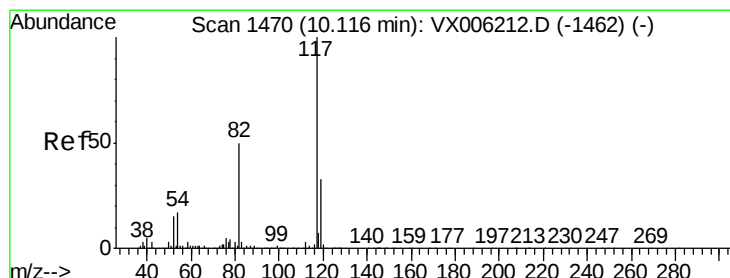
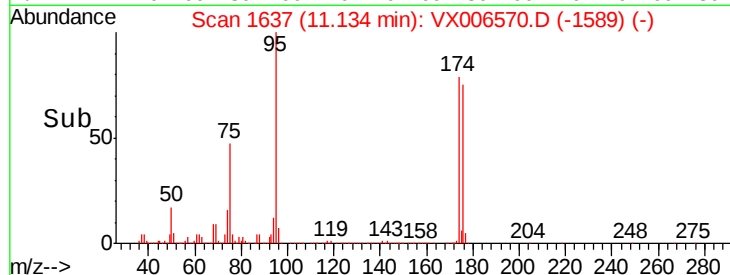
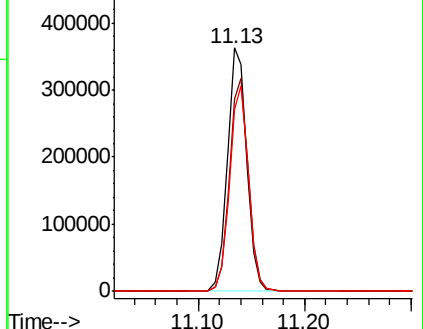
176 82.8 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006570.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006570.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006570.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

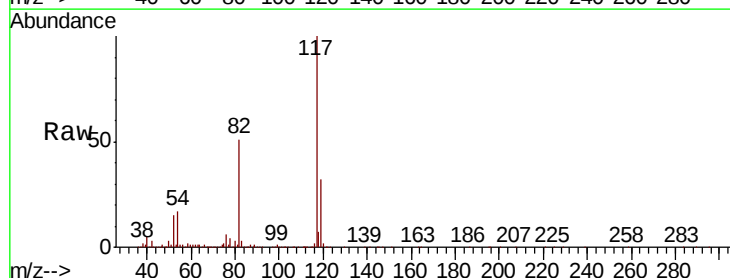
Tgt Ion: 117 Resp: 967934

Ion Ratio Lower Upper

117 100

82 50.5 39.6 59.4

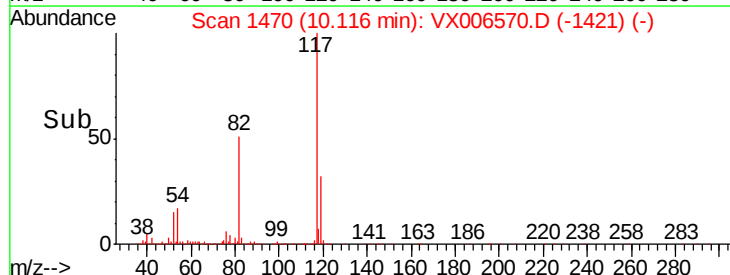
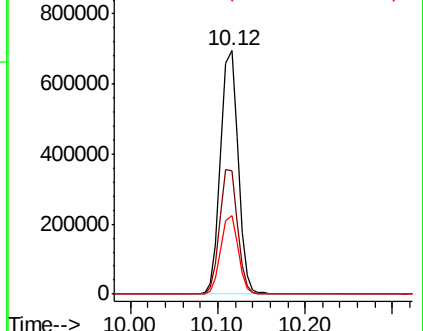
119 32.5 26.3 39.5

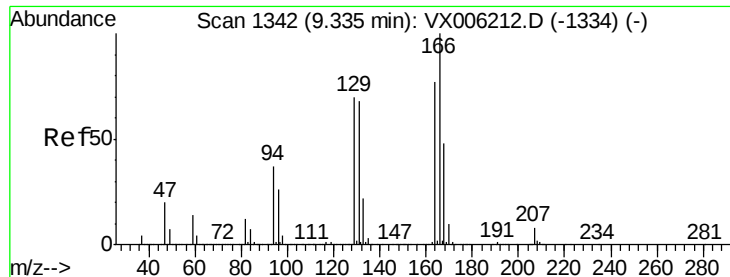


Abundance Ion 116.90 (116.60 to 117.60): VX006570.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006570.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006570.D (-1421) (-)





#64

Tetrachloroethene

Concen: 1.470 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-20181212

Tot Ion:164 Resp: 10713

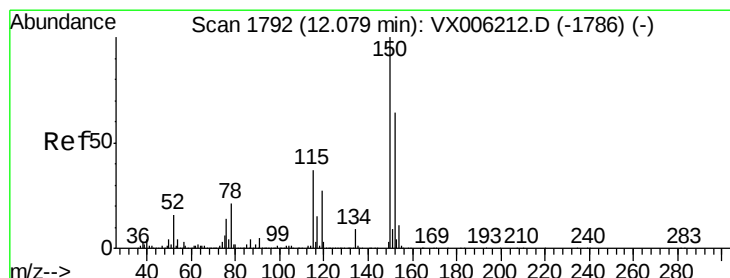
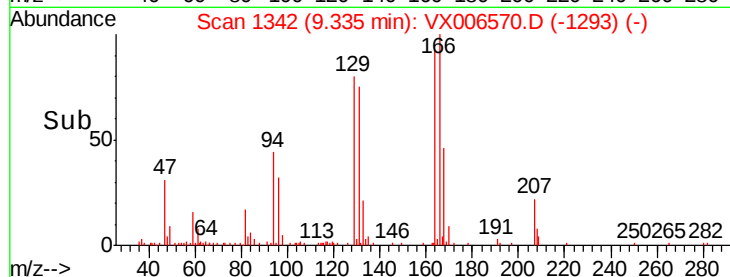
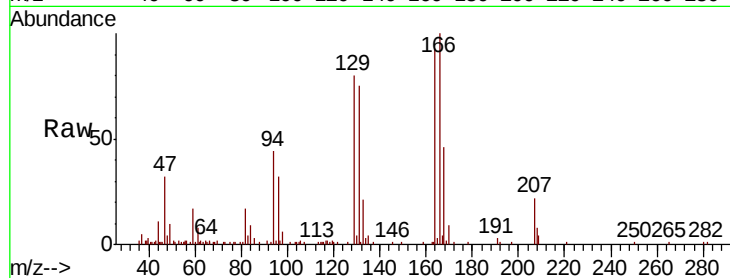
Ion Ratio Lower Upper

164 100

166 107.3 104.2 156.2

129 85.6 72.6 108.8

131 79.9 70.3 105.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

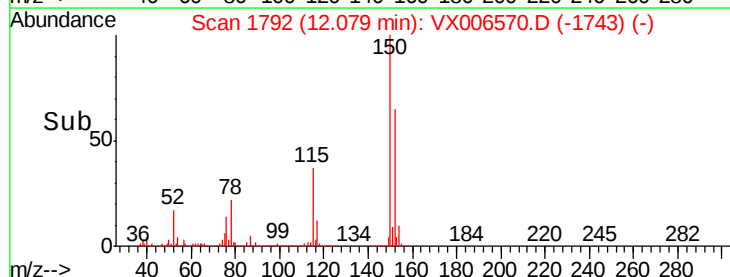
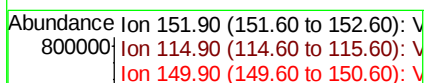
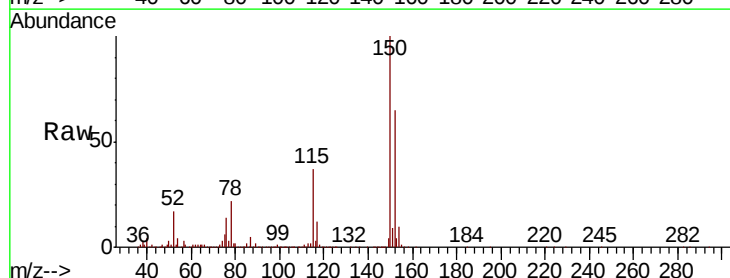
Tgt Ion:152 Resp: 459240

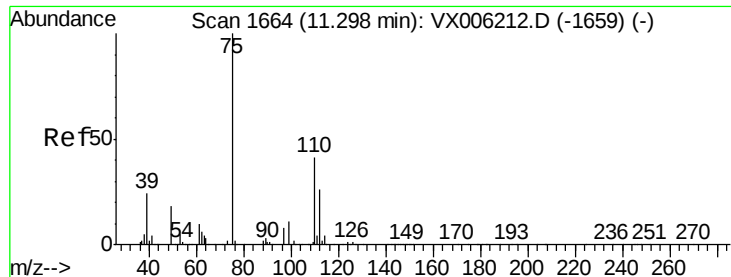
Ion Ratio Lower Upper

152 100

115 57.5 39.0 116.9

150 156.5 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 24.210 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

Instrument :

MSVOA_X

ClientSampleId :

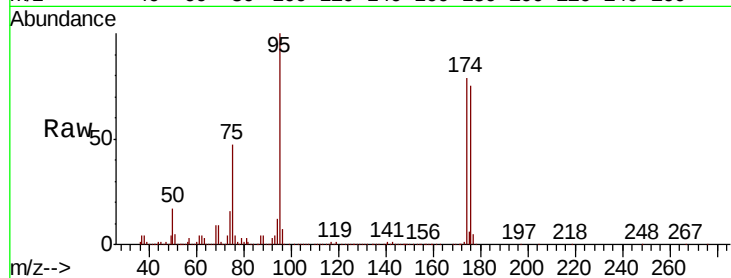
TT101D2-20181212

Tot Ion: 75 Resp: 214603

Ion Ratio Lower Upper

75 100

77 1.4 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

200000

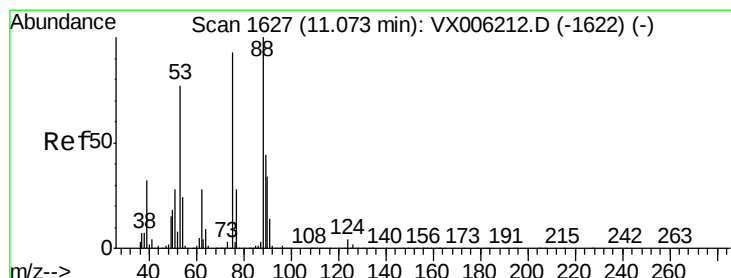
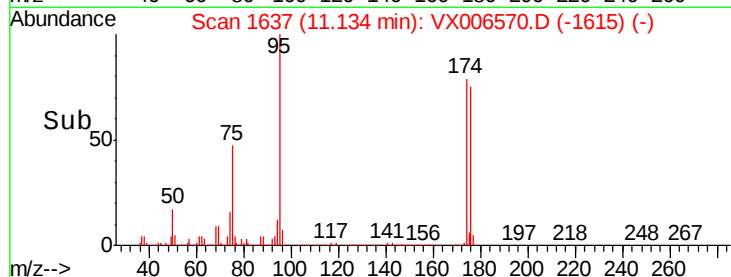
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 56.815 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006570.D

Acq: 17 Dec 2018 14:05

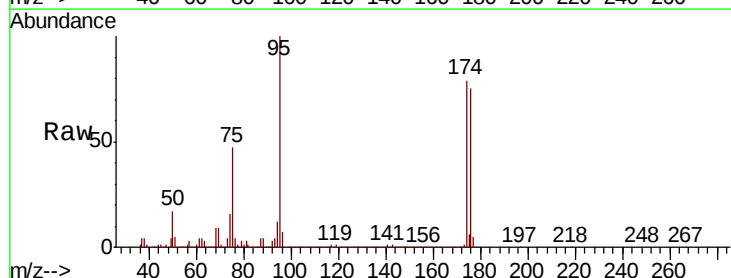
Tgt Ion: 75 Resp: 214603

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 44.2 66.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

200000

150000

100000

50000

0

Time-->

