

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121918\
 Data File : VX006646.D
 Acq On : 19 Dec 2018 19:24
 Operator : JC/MD
 Sample : J6479-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Dec 20 04:04:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	618948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	991167	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	914295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	424266	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	348121	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	
35) Dibromofluoromethane	5.50	113	298023	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
50) Toluene-d8	8.71	98	1178040	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.13	95	424851	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	

Target Compounds

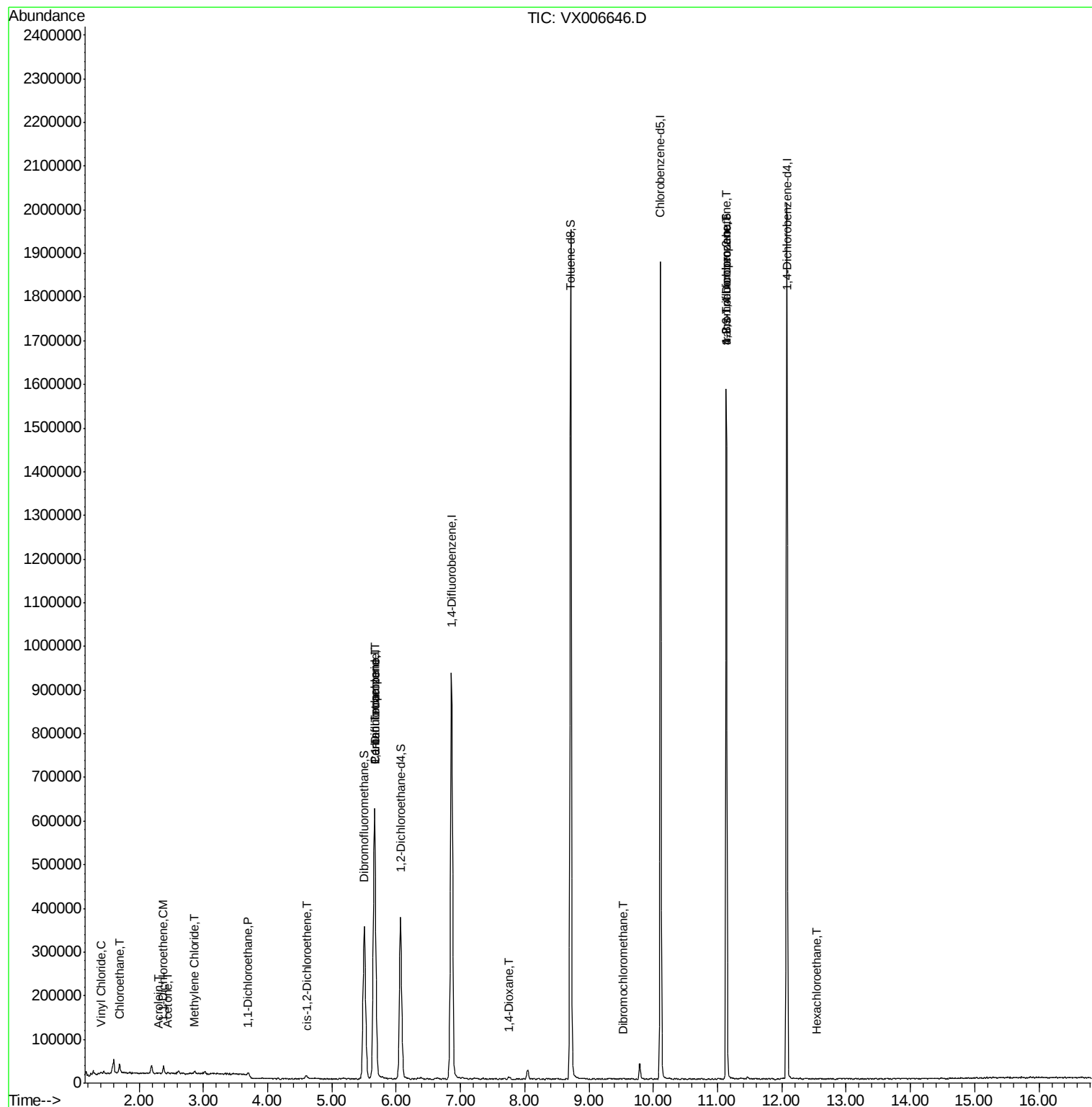
					Qvalue	
4) Vinyl Chloride	1.41	62	2603	0.409	ug/l #	85
5) Bromomethane	1.65	94	561	Below Cal	#	41
6) Chloroethane	1.70	64	1057	0.240	ug/l #	60
12) 1,1-Dichloroethene	2.39	96	6594	1.192	ug/l	93
13) Acrolein	2.29	56	359	0.357	ug/l #	54
16) Acetone	2.45	43	2604	0.850	ug/l	95
20) Methylene Chloride	2.86	84	2415	0.381	ug/l	93
24) 1,1-Dichloroethane	3.70	63	10792	1.062	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	4720	0.698	ug/l	85
28) Bromochloromethane	5.04	49	466	Below Cal	#	18
36) 1,1-Dichloropropene	5.66	75	42285	5.151	ug/l #	48
38) Carbon Tetrachloride	5.66	117	59801	7.496	ug/l #	13
49) 1,4-Dioxane	7.76	88	4485	6.172	ug/l #	89
60) Dibromochloromethane	9.53	129	93	2.337	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	200157	25.386	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	200157	74.949	ug/l #	10
90) Hexachloroethane	12.55	117	44	3.303	ug/l	83

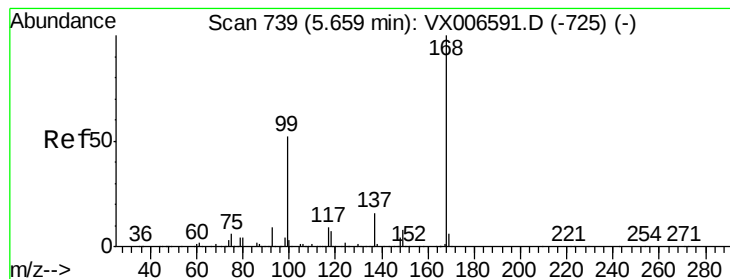
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
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QLast Update : Wed Dec 19 15:20:58 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: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampled :

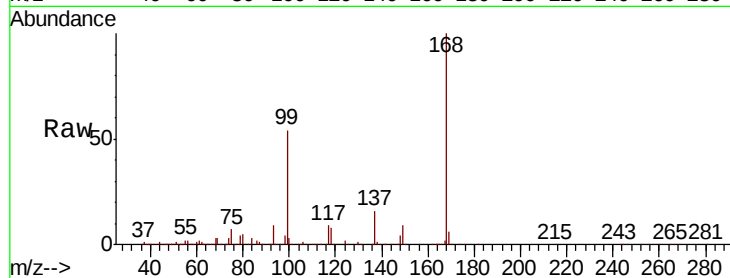
MW-4

Tot Ion:168 Resp: 618948

Ion Ratio Lower Upper

168 100

99 53.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

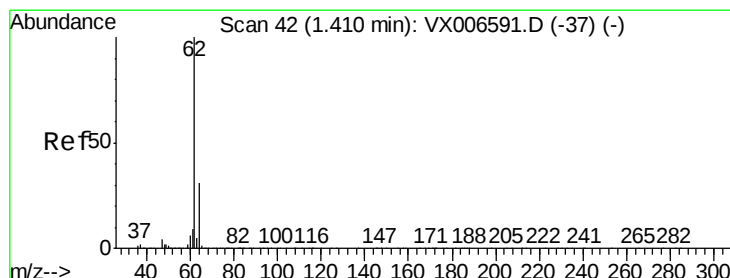
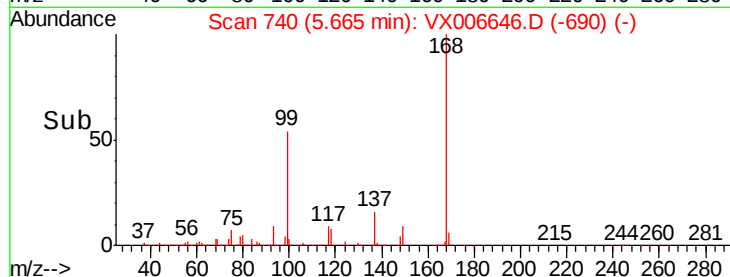
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.409 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006646.D

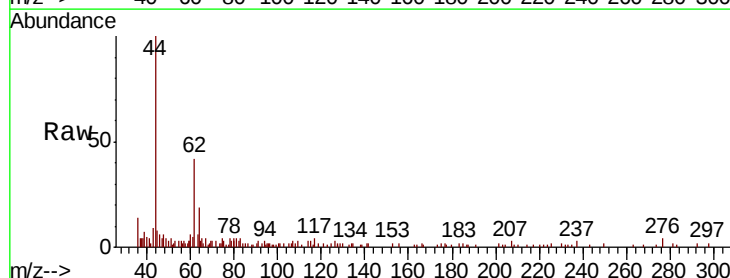
Acq: 19 Dec 2018 19:24

Tgt Ion: 62 Resp: 2603

Ion Ratio Lower Upper

62 100

64 39.8 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2500

2000

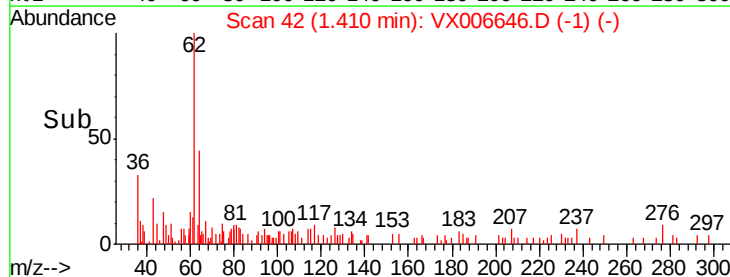
1500

1000

500

0

Time--> 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampled :

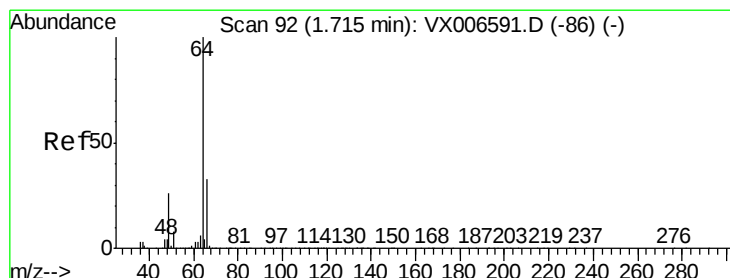
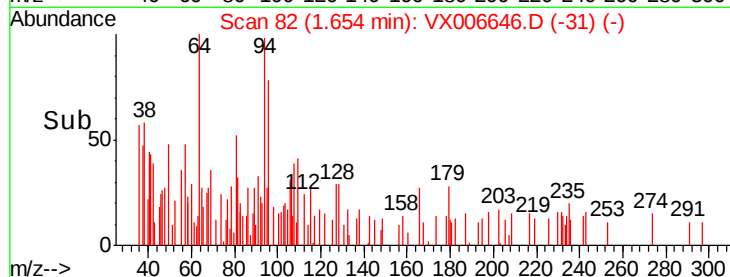
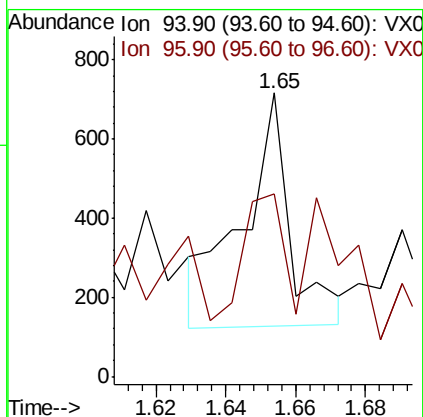
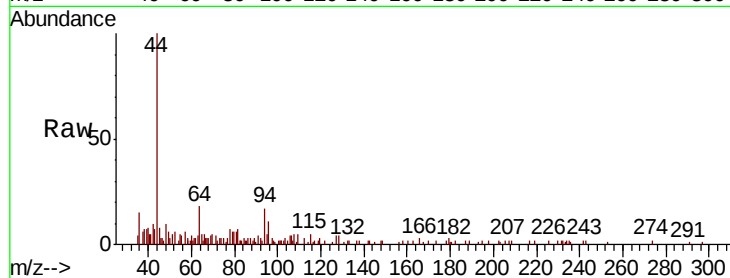
MW-4

Tot Ion: 94 Resp: 561

Ion Ratio Lower Upper

94 100

96 35.3 73.4 110.2#



#6

Chloroethane

Concen: 0.240 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX006646.D

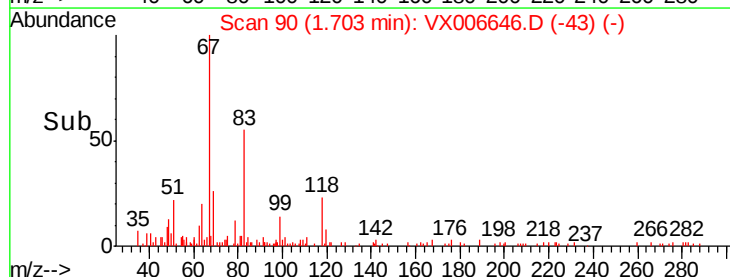
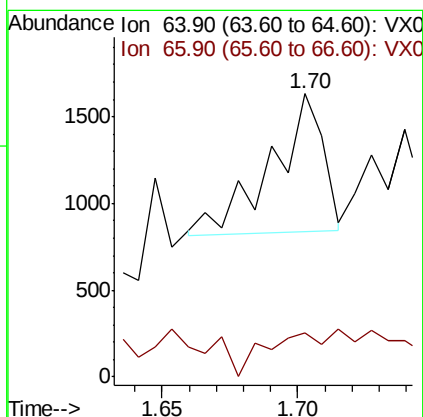
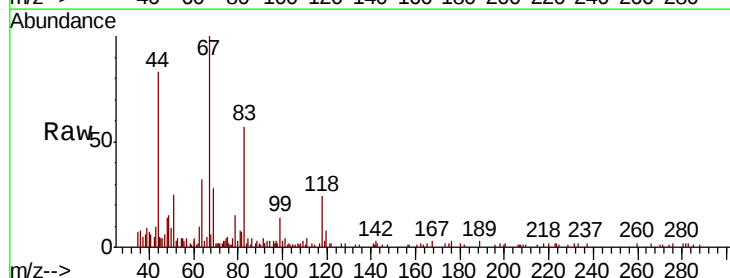
Acq: 19 Dec 2018 19:24

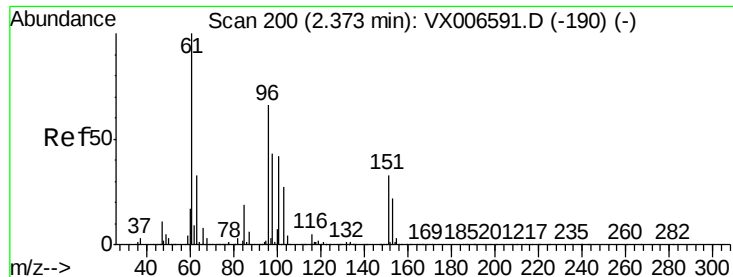
Tgt Ion: 64 Resp: 1057

Ion Ratio Lower Upper

64 100

66 10.5 26.4 39.6#





#12

1,1-Dichloroethene

Concen: 1.192 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

MW-4

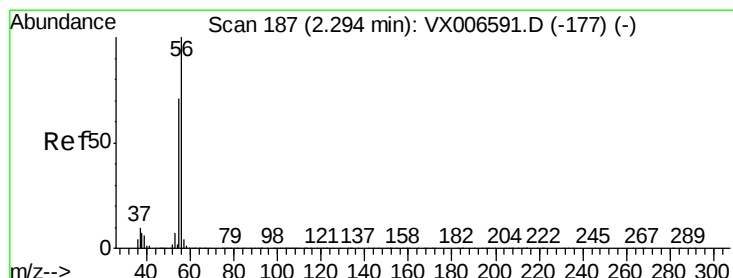
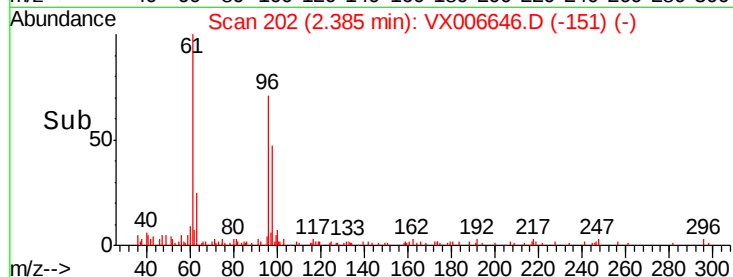
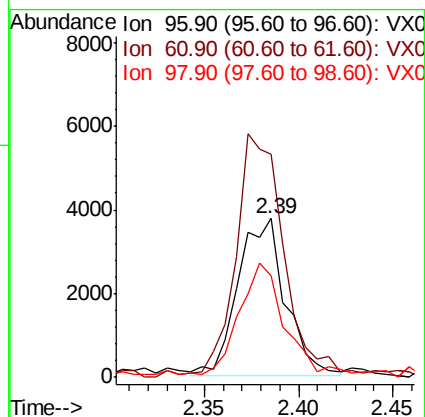
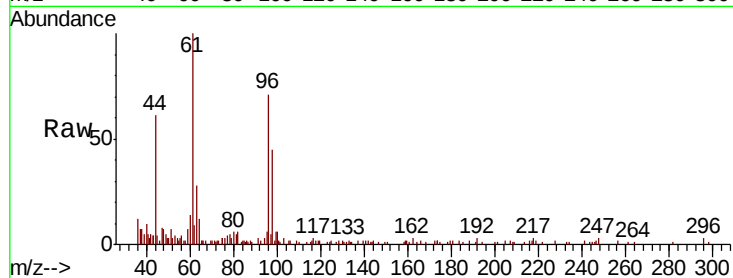
Tot Ion: 96 Resp: 6594

Ion Ratio Lower Upper

96 100

61 142.4 121.4 182.2

98 61.3 51.9 77.9



#13

Acrolein

Concen: 0.357 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006646.D

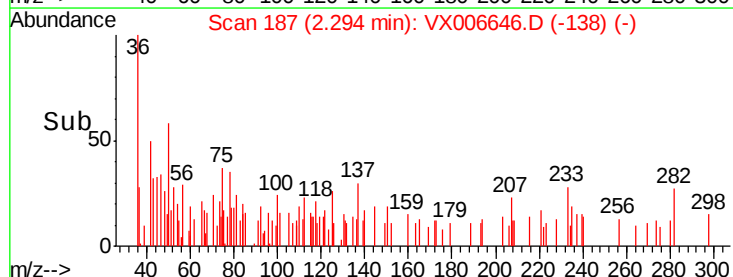
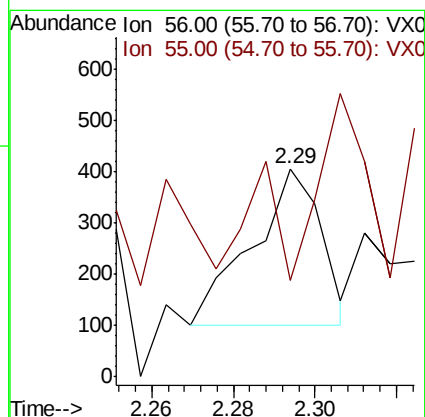
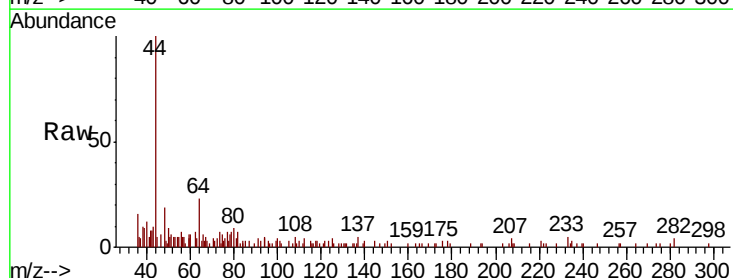
Acq: 19 Dec 2018 19:24

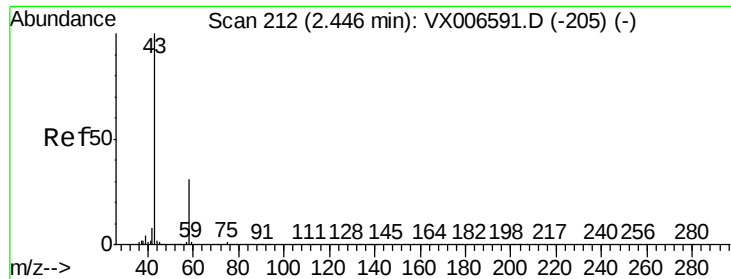
Tgt Ion: 56 Resp: 359

Ion Ratio Lower Upper

56 100

55 34.0 58.2 87.4#





#16

Acetone

Concen: 0.850 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

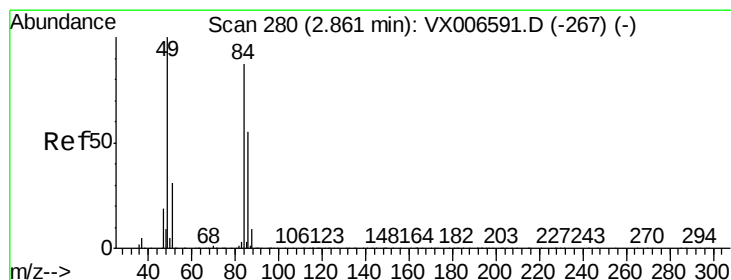
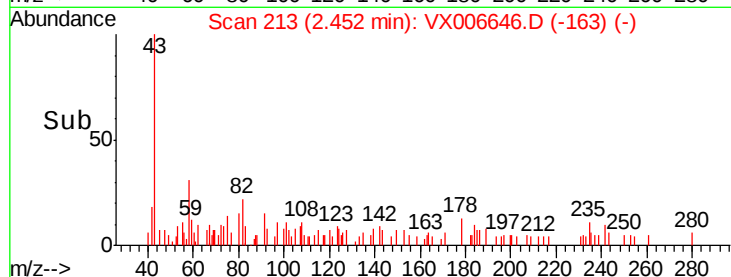
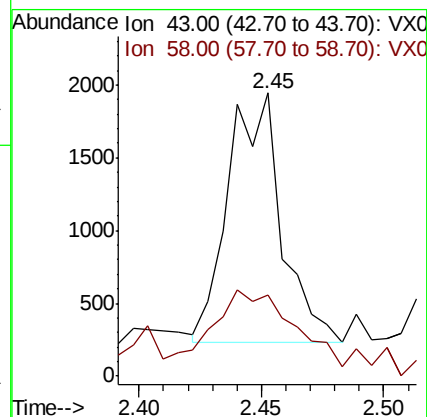
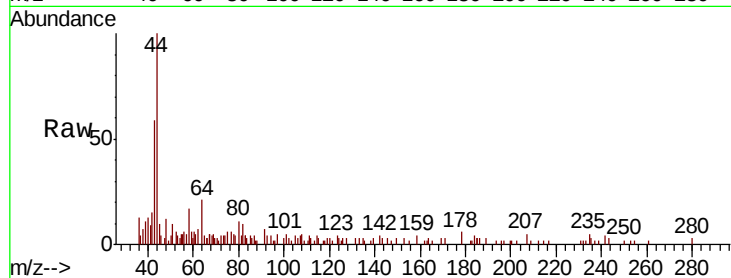
MW-4

Tot Ion: 43 Resp: 2604

Ion Ratio Lower Upper

43 100

58 28.6 25.0 37.6



#20

Methylene Chloride

Concen: 0.381 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Tgt Ion: 84 Resp: 2415

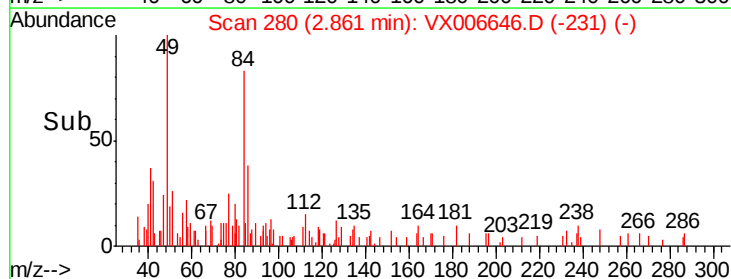
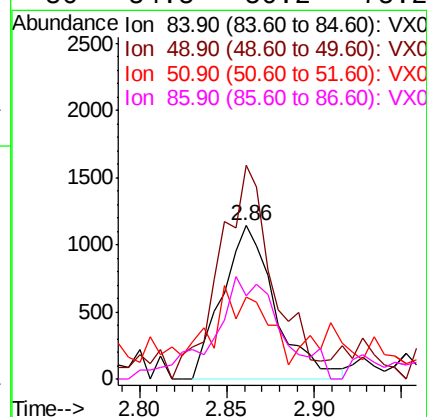
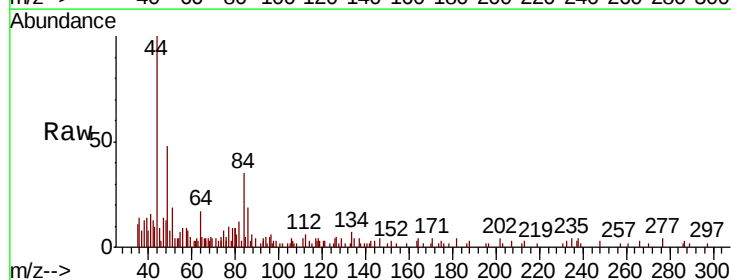
Ion Ratio Lower Upper

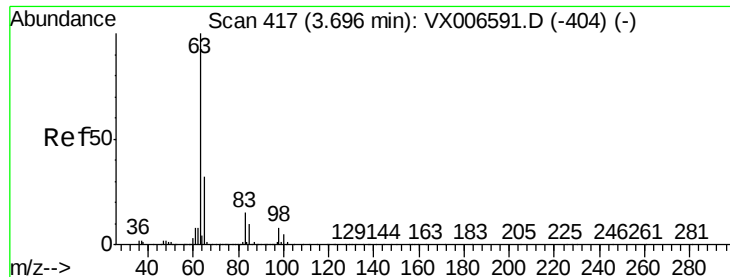
84 100

49 118.6 91.8 137.6

51 29.7 28.5 42.7

86 54.5 50.2 75.2





#24

1,1-Dichloroethane

Concen: 1.062 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

MW-4

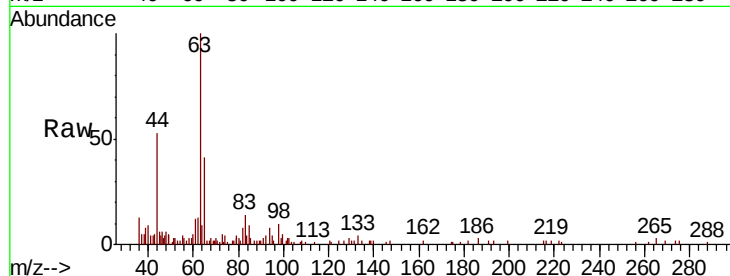
Tot Ion: 63 Resp: 10792

Ion Ratio Lower Upper

63 100

98 8.0 3.9 11.5

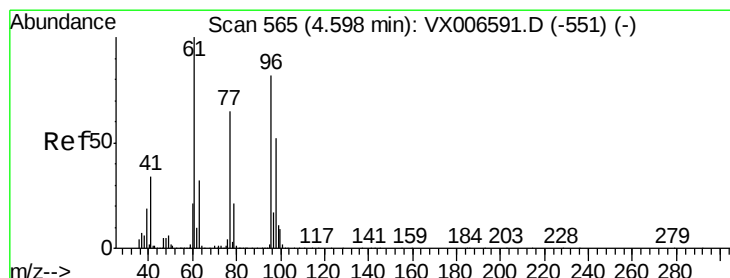
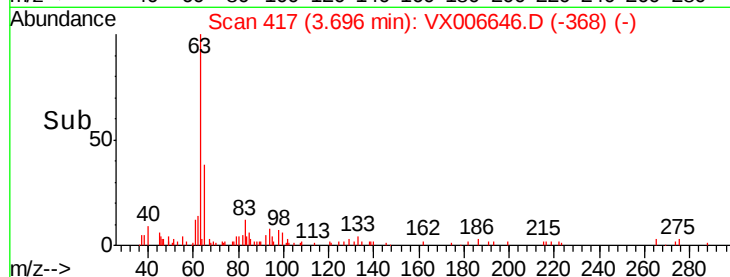
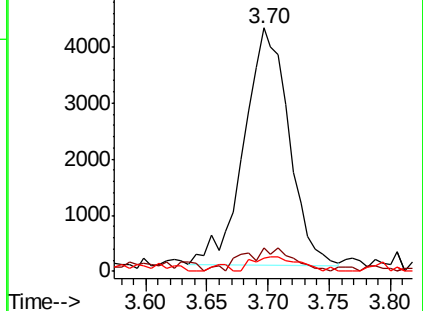
100 5.5 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.698 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

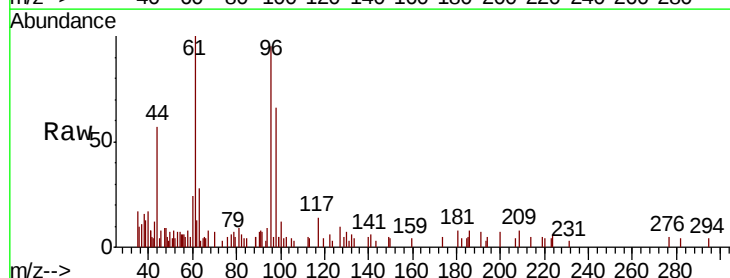
Tgt Ion: 96 Resp: 4720

Ion Ratio Lower Upper

96 100

61 104.6 0.0 258.6

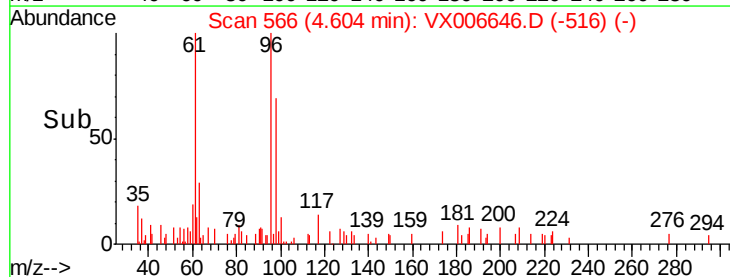
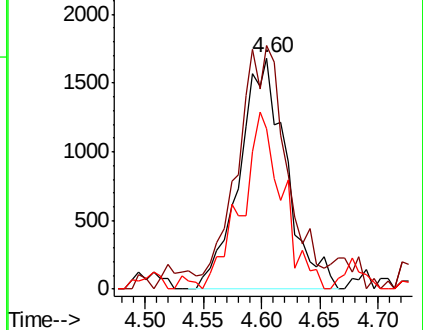
98 67.2 0.0 132.0

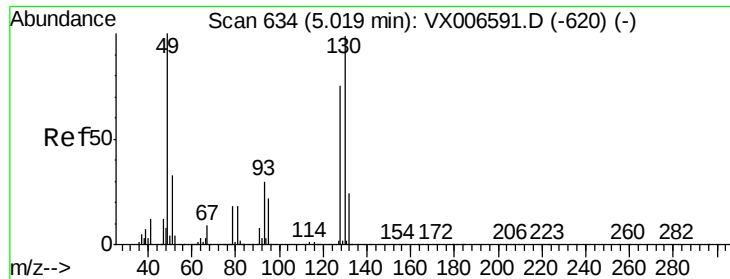


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 638

Delta R.T. 0.02 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampled :

MW-4

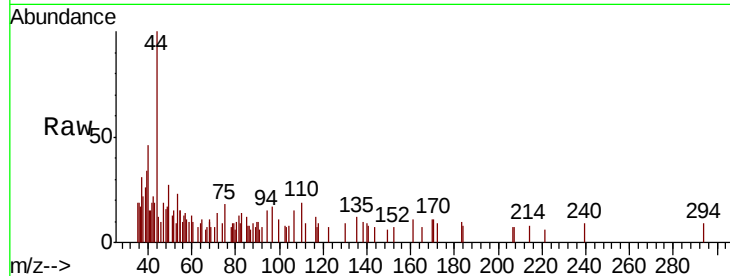
Tot Ion: 49 Resp: 466

Ion Ratio Lower Upper

49 100

129 9.7 0.0 5.4#

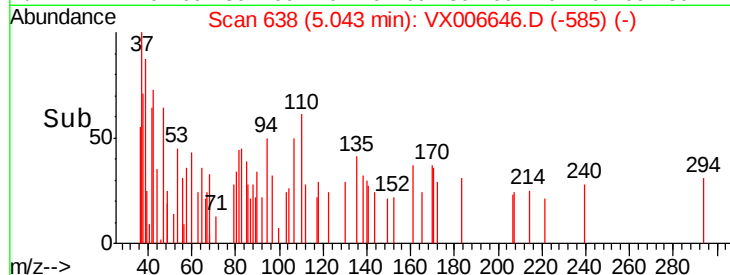
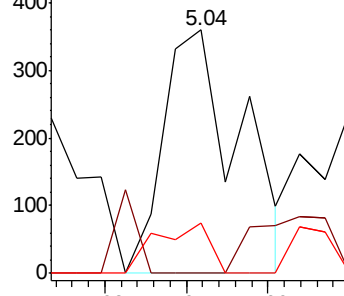
130 14.4 77.7 116.5#



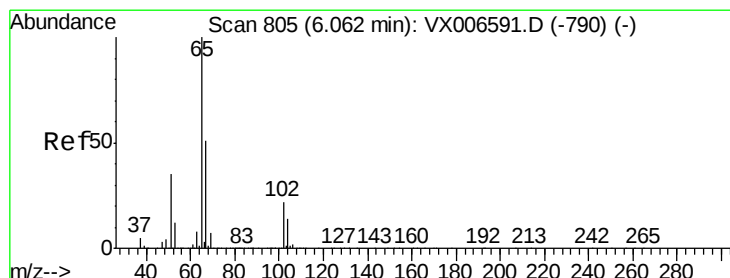
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.186 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006646.D

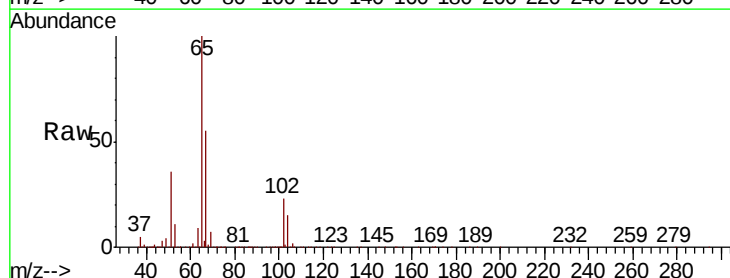
Acq: 19 Dec 2018 19:24

Tgt Ion: 65 Resp: 348121

Ion Ratio Lower Upper

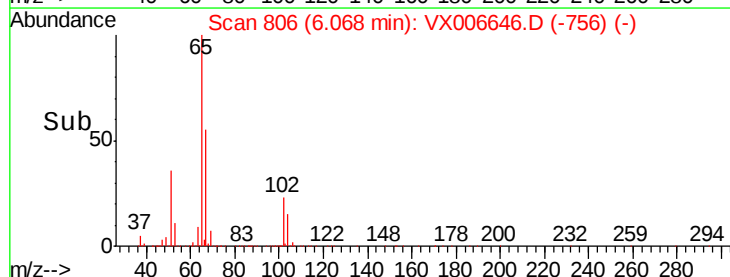
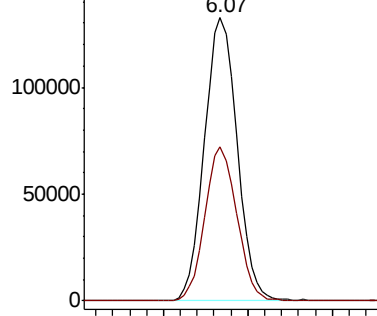
65 100

67 53.0 0.0 105.0

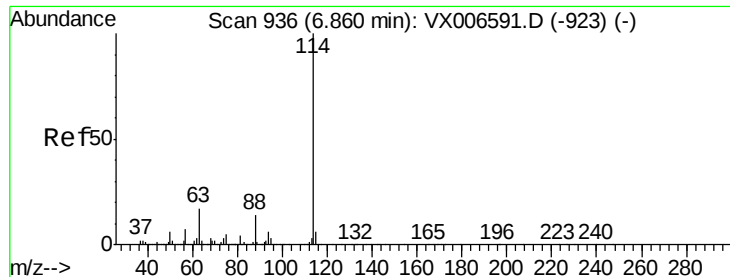


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampled :

MW-4

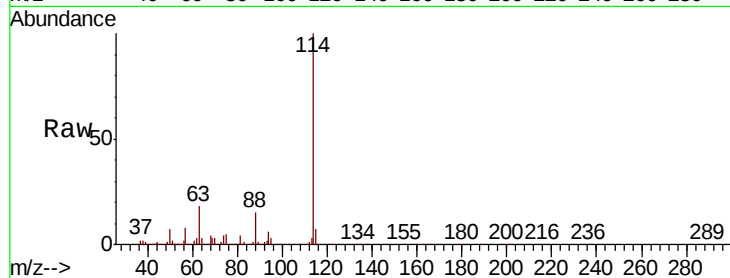
Tot Ion:114 Resp: 991167

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

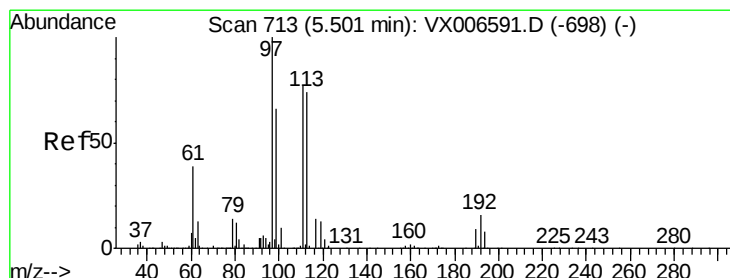
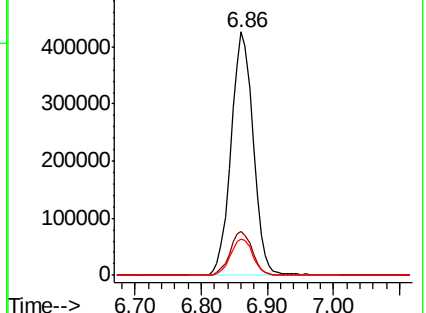
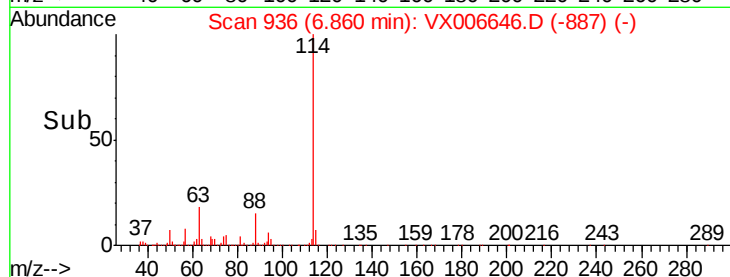
88 14.8 0.0 28.8



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: 47.547 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

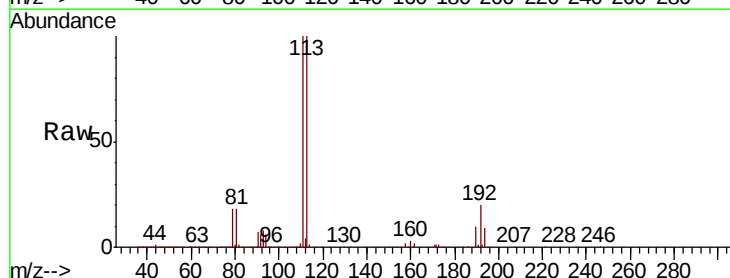
Tgt Ion:113 Resp: 298023

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

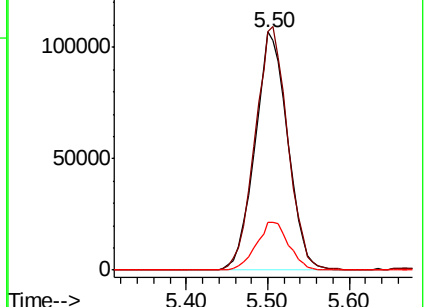
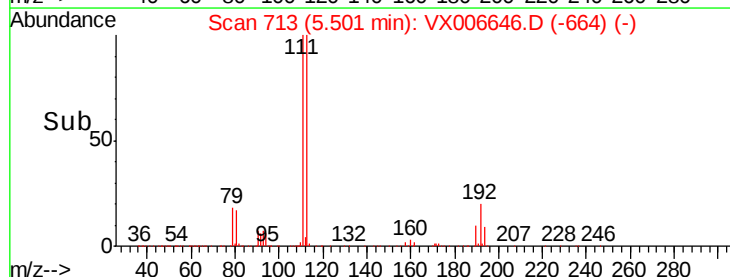
192 20.1 16.7 25.1

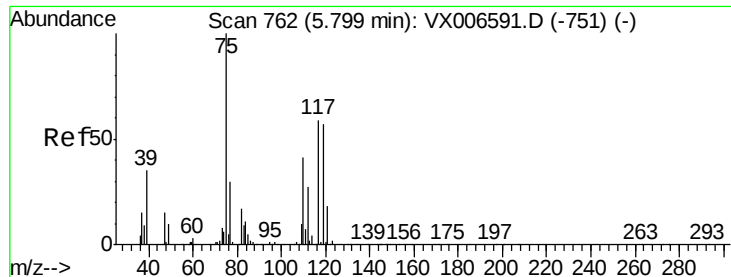


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.151 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

MW-4

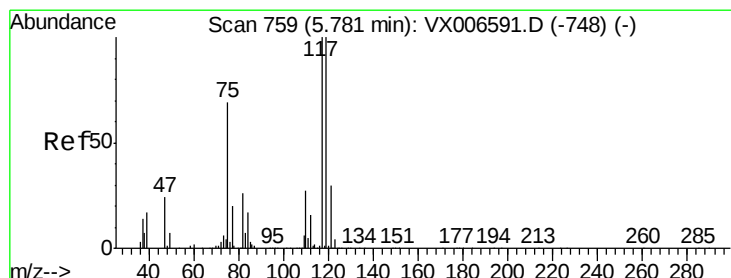
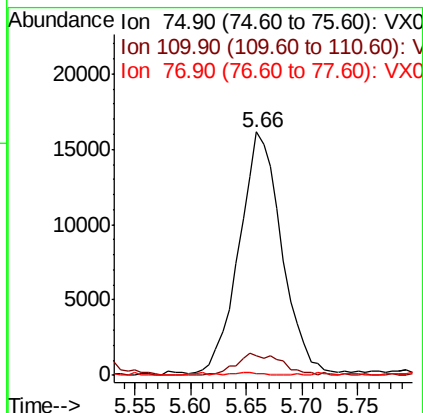
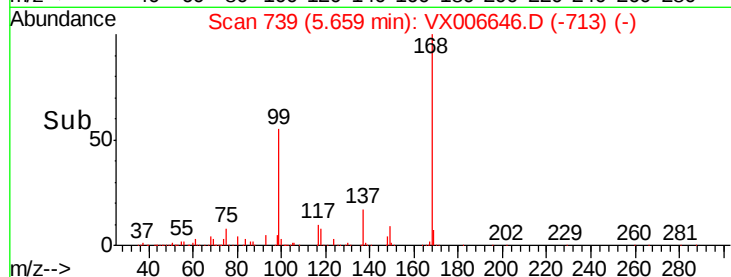
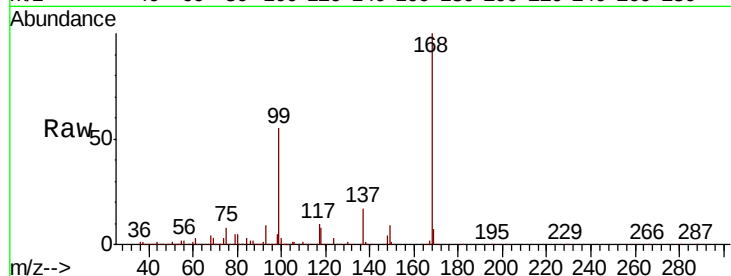
Tot Ion: 75 Resp: 42285

Ion Ratio Lower Upper

75 100

110 10.2 20.2 60.5#

77 0.6 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.496 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

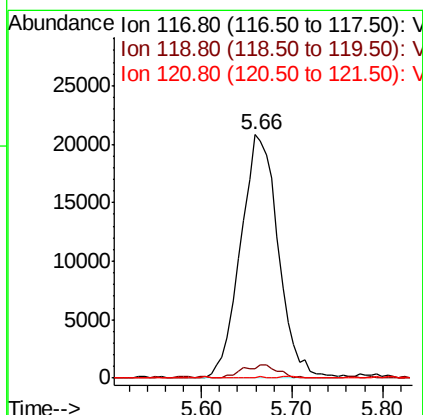
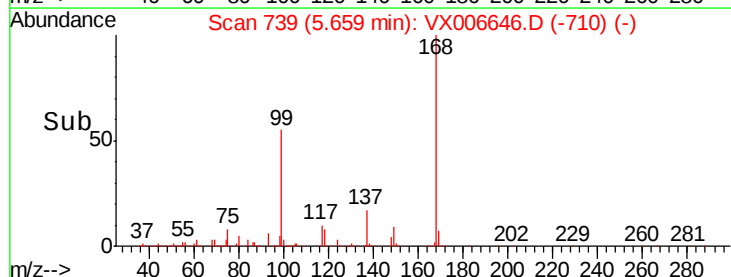
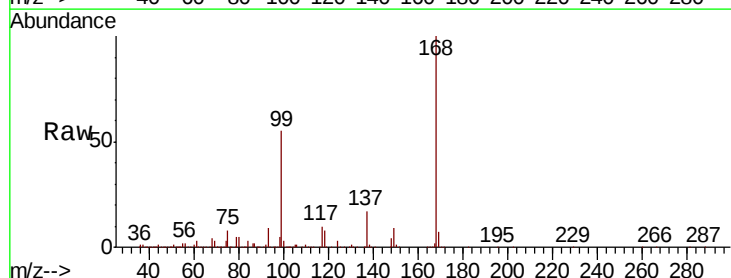
Tgt Ion: 117 Resp: 59801

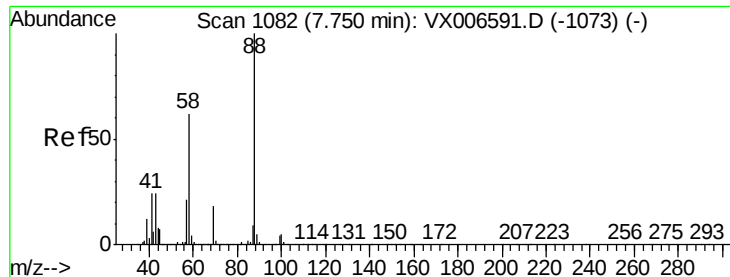
Ion Ratio Lower Upper

117 100

119 3.4 79.4 119.2#

121 0.3 24.0 36.0#





#49

1,4-Dioxane

Concen: 6.172 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

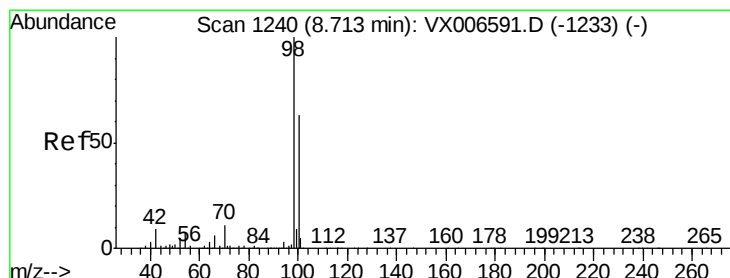
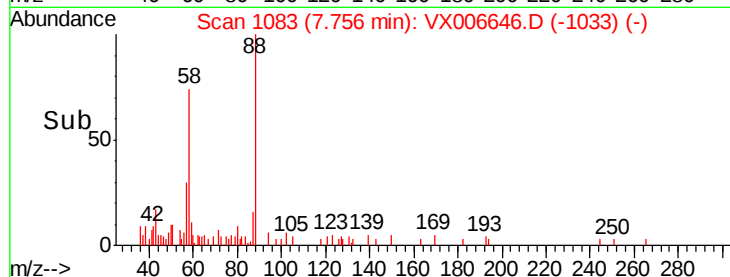
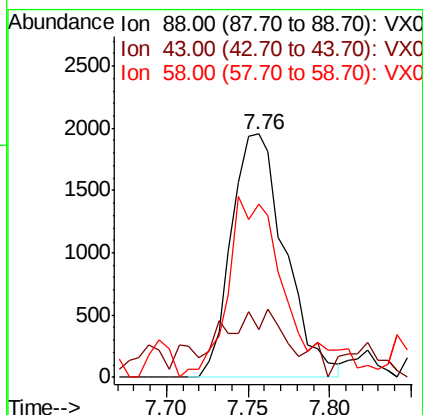
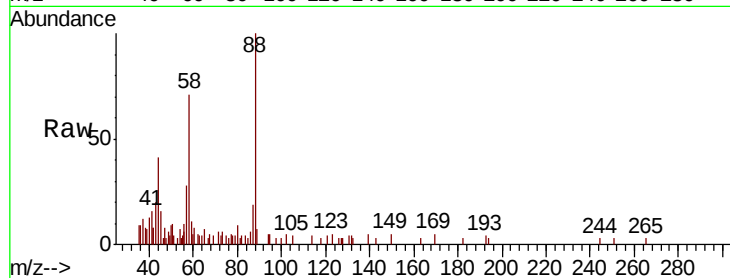
MSVOA_X

ClientSampled :

MW-4

Tot Ion: 88 Resp: 4485

Ion	Ratio	Lower	Upper
88	100		
43	34.0	22.2	33.4#
58	72.3	51.0	76.4



#50

Toluene-d8

Concen: 49.853 ug/l

RT: 8.71 min Scan# 1240

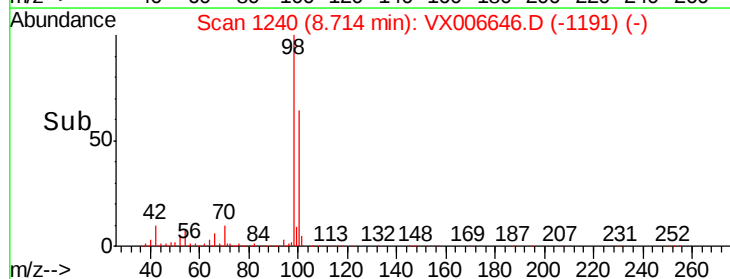
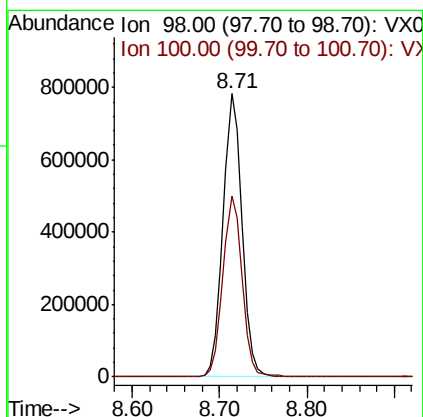
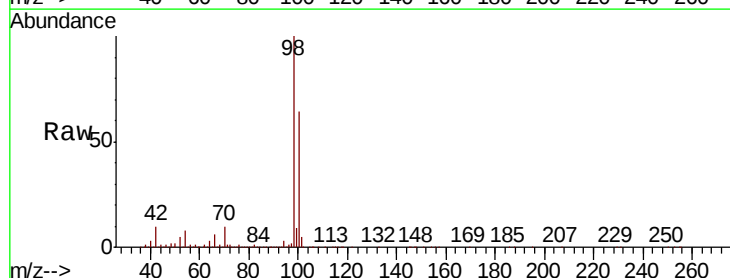
Delta R.T. 0.00 min

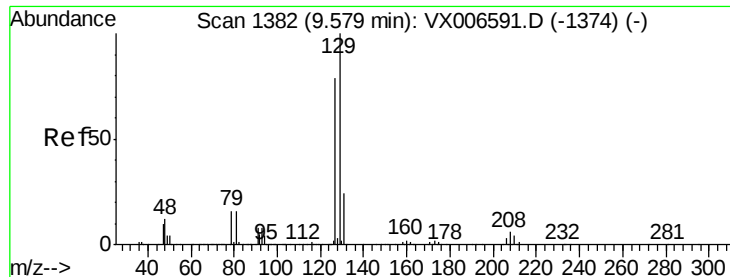
Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Tgt Ion: 98 Resp: 1178040

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0





#60

Dibromochloromethane

Concen: 2.337 ug/l

RT: 9.53 min Scan# 1374

Delta R.T. -0.05 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

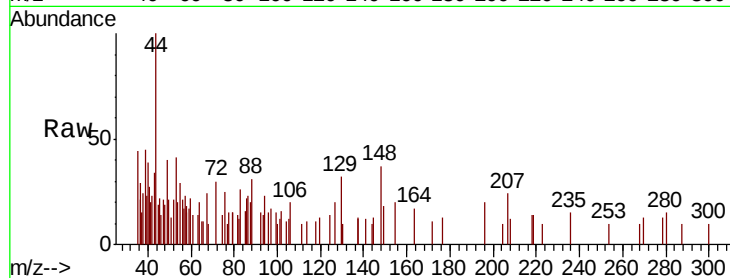
MW-4

Tot Ion:129 Resp: 93

Ion Ratio Lower Upper

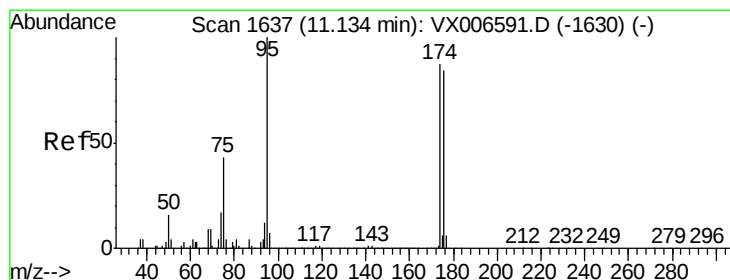
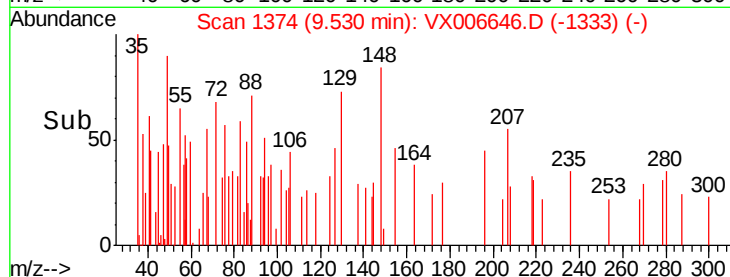
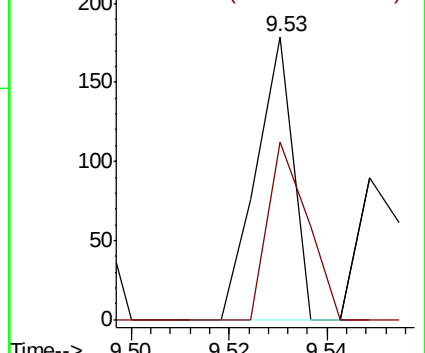
129 100

127 67.7 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.091 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

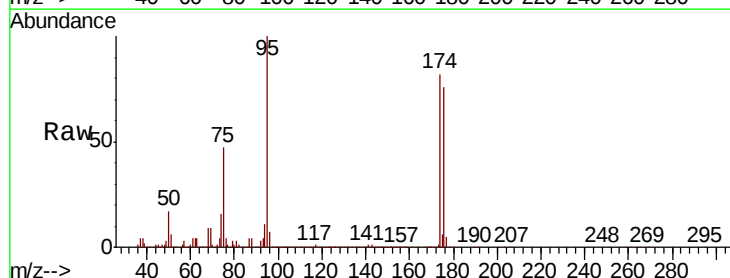
Tgt Ion: 95 Resp: 424851

Ion Ratio Lower Upper

95 100

174 85.5 0.0 182.2

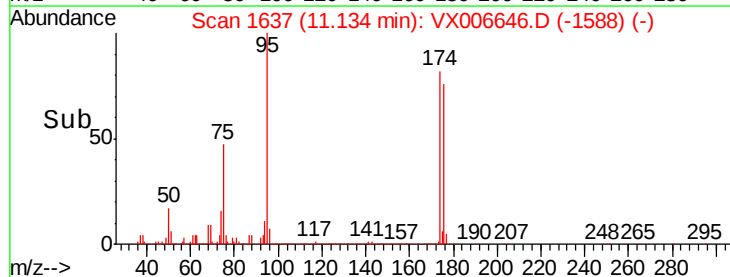
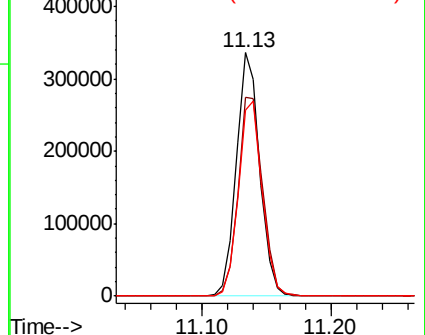
176 81.7 0.0 178.8

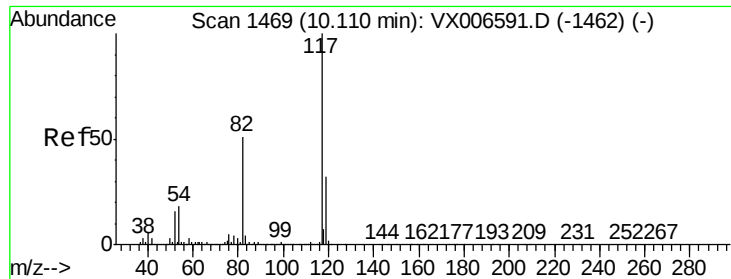


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

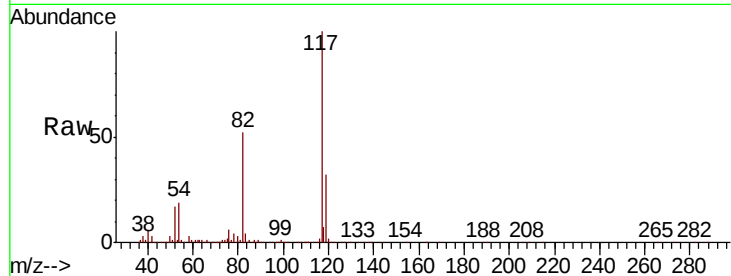




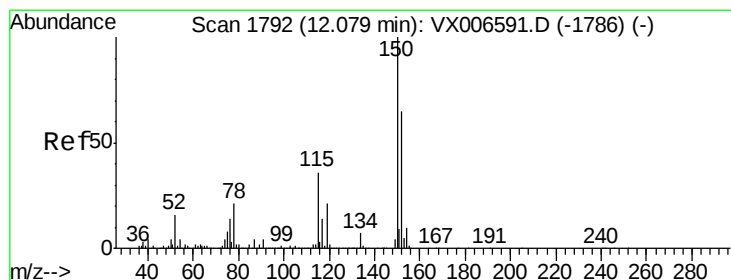
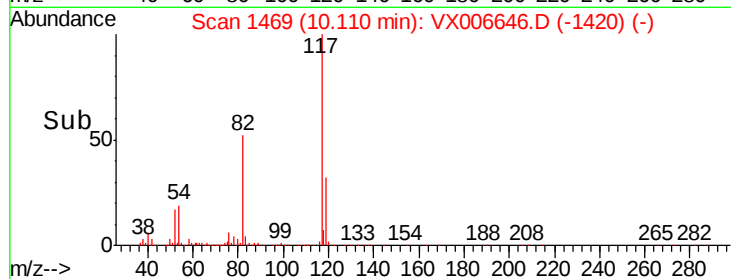
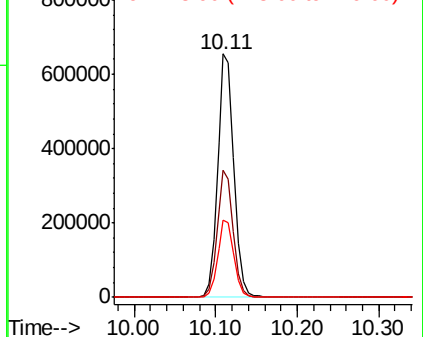
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006646.D
Acq: 19 Dec 2018 19:24

Instrument :
MSVOA_X
ClientSampled :
MW-4

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	41.0	61.6
119	31.7	25.4	38.0

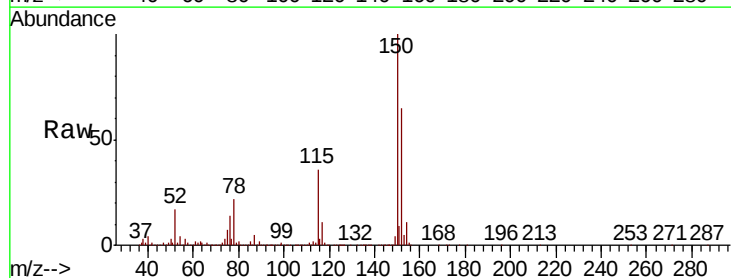


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

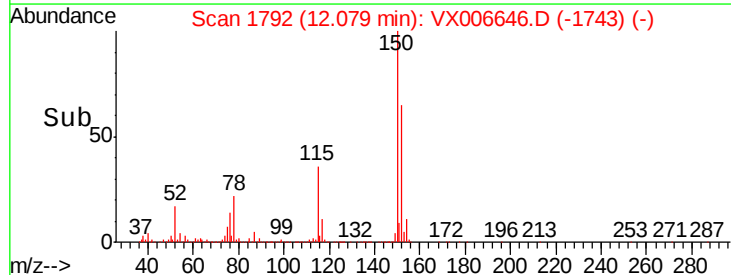
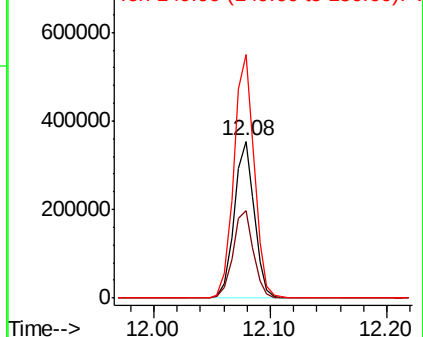


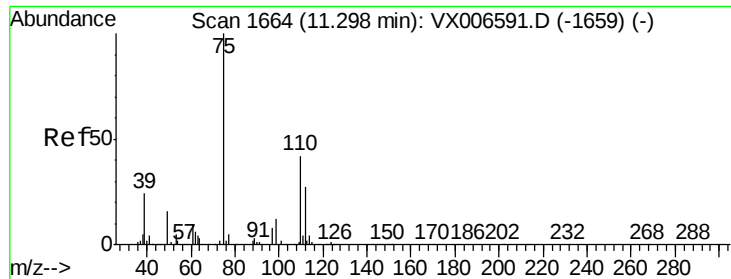
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006646.D
Acq: 19 Dec 2018 19:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	39.1	117.2
150	157.2	0.0	344.8



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: 25.386 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

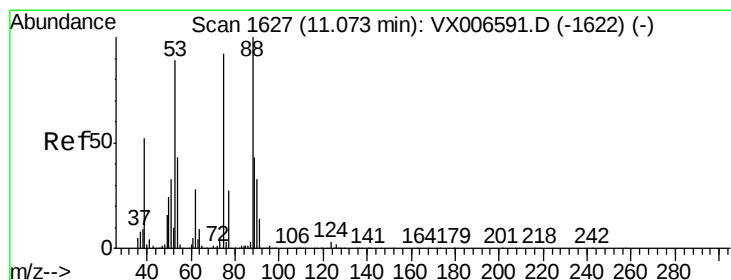
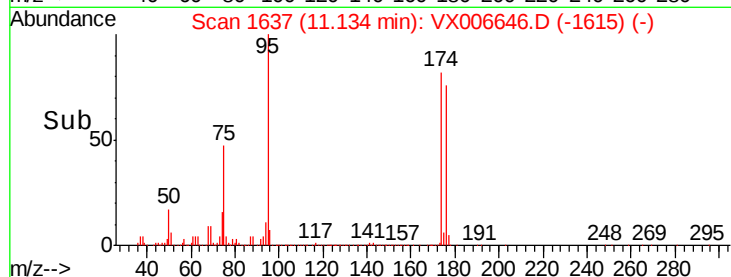
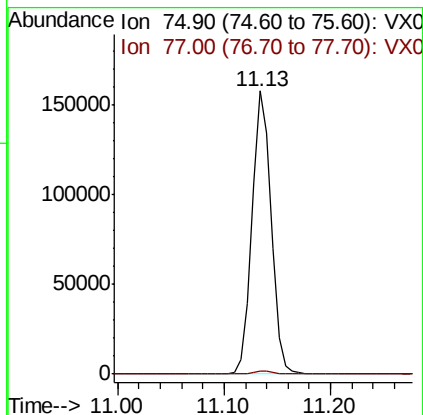
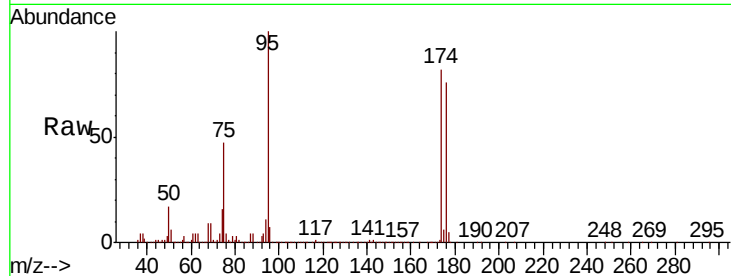
MW-4

Tot Ion: 75 Resp: 200157

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.949 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

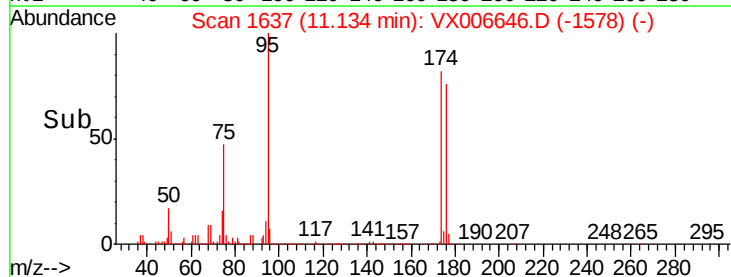
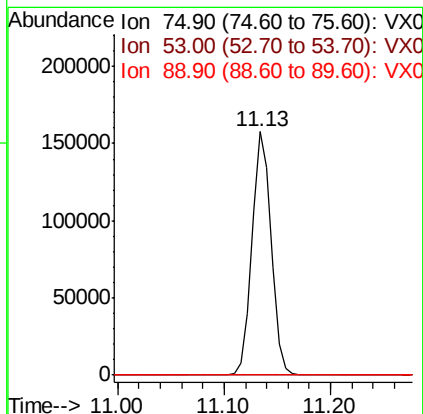
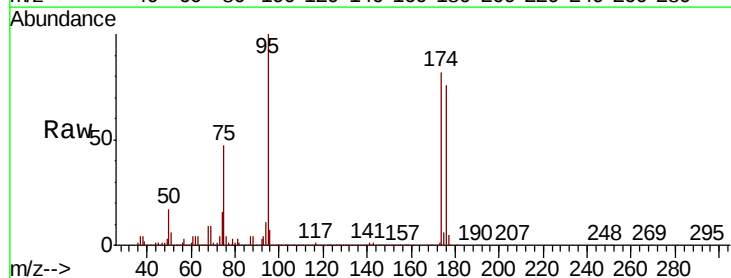
Tgt Ion: 75 Resp: 200157

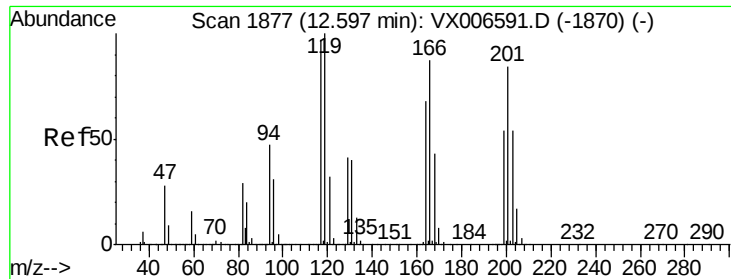
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.303 ug/l

RT: 12.55 min Scan# 1869

Delta R.T. -0.05 min

Lab File: VX006646.D

Acq: 19 Dec 2018 19:24

Instrument :

MSVOA_X

ClientSampleId :

MW-4

Tot Ion:117 Resp: 44

Ion Ratio Lower Upper

117 100

201 70.5 42.9 128.7

