

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121918\
 Data File : VX006648.D
 Acq On : 19 Dec 2018 20:18
 Operator : JC/MD
 Sample : J6479-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Dec 20 04:04:53 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	600009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	958952	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	884555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	412545	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	339832	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
35) Dibromofluoromethane	5.50	113	290538	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	8.71	98	1145321	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	11.13	95	411295	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	

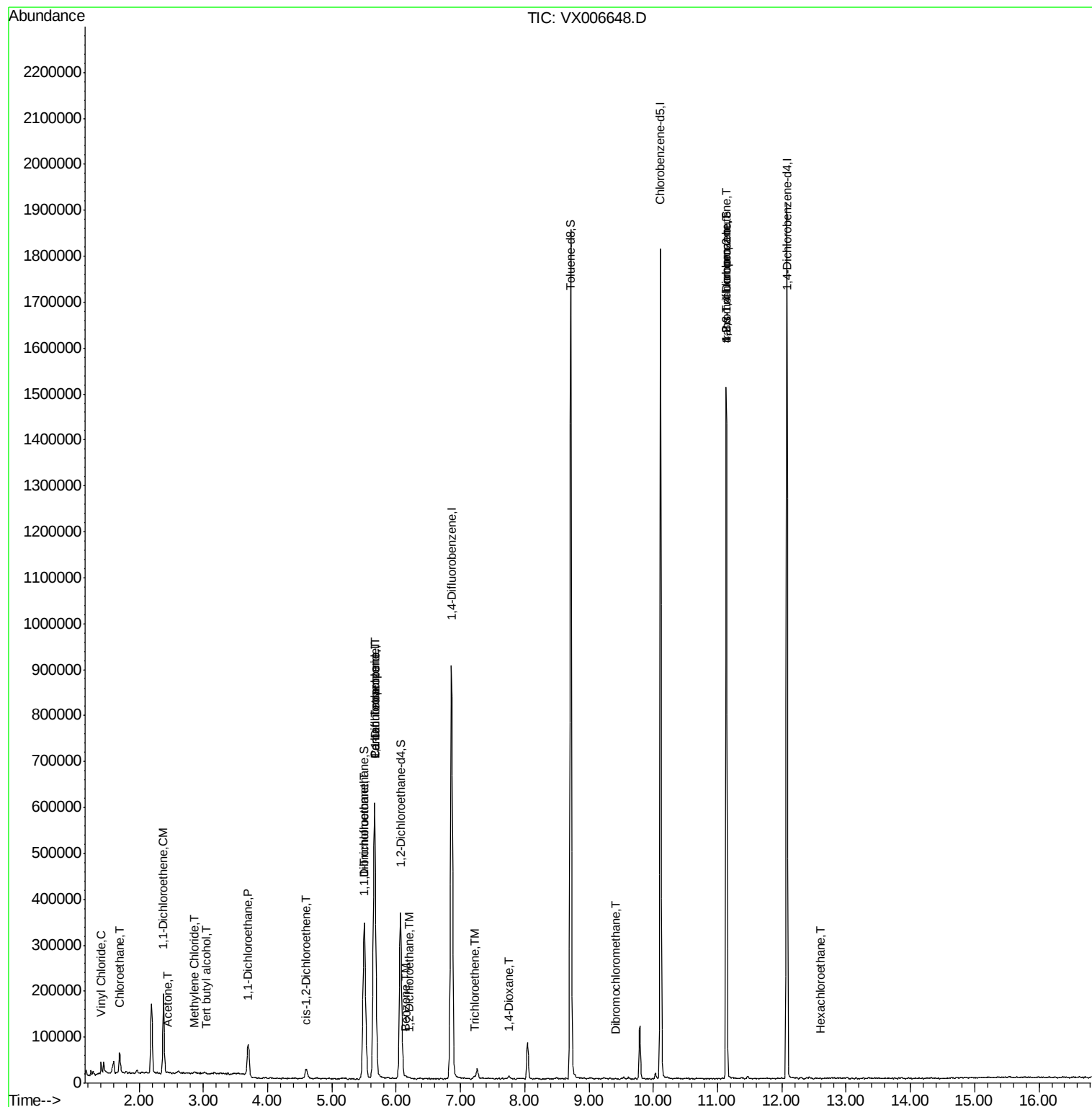
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	16046	2.598	ug/l	95
5) Bromomethane	1.65	94	882	Below Cal		82
6) Chloroethane	1.70	64	2620	0.613	ug/l #	84
11) Tert butyl alcohol	3.05	59	533	0.369	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	60331	11.254	ug/l	93
16) Acetone	2.44	43	2566	0.864	ug/l #	88
20) Methylene Chloride	2.87	84	1906	0.310	ug/l #	78
24) 1,1-Dichloroethane	3.70	63	76582	7.771	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	13665	2.085	ug/l	92
28) Bromochloromethane	5.02	49	316	Below Cal	#	37
32) 1,1,1-Trichloroethane	5.49	97	2960	0.344	ug/l #	35
36) 1,1-Dichloropropene	5.67	75	40710	5.126	ug/l #	49
38) Carbon Tetrachloride	5.67	117	57658	7.470	ug/l #	14
40) Benzene	6.14	78	5482	0.227	ug/l	100
42) 1,2-Dichloroethane	6.20	62	2255	0.274	ug/l	99
44) Trichloroethene	7.21	130	2019	0.276	ug/l	53
49) 1,4-Dioxane	7.76	88	4734	8.579	ug/l #	88
60) Dibromochloromethane	9.41	129	135	2.343	ug/l	69
76) 1,2,3-Trichloropropane	11.13	75	194559	25.377	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	194559	74.924	ug/l #	10
90) Hexachloroethane	12.59	117	69	3.310	ug/l	93

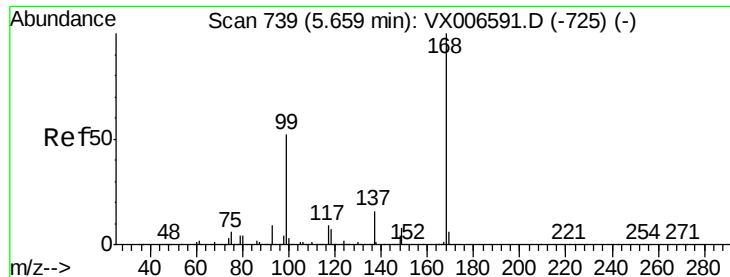
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :
MW-3

Quant Time: Dec 20 04:04:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
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: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

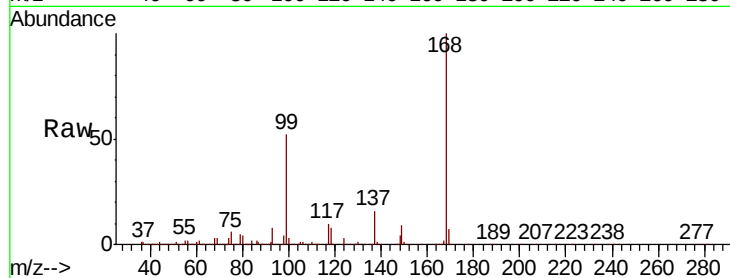
MW-3

Tot Ion:168 Resp: 600009

Ion Ratio Lower Upper

168 100

99 52.3 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

200000

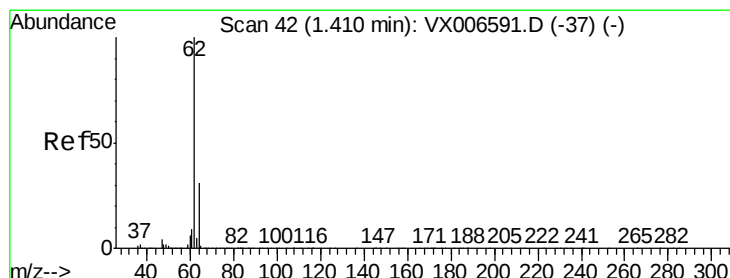
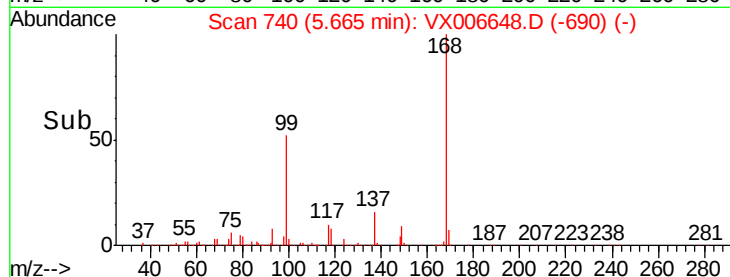
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 2.598 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006648.D

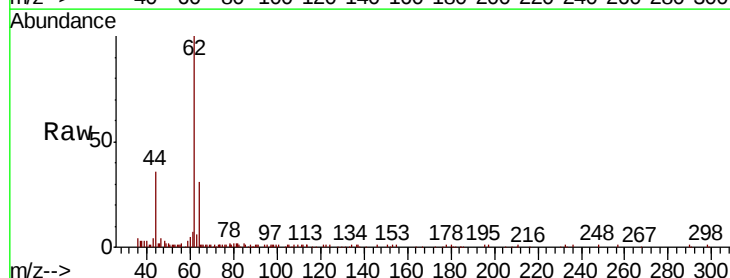
Acq: 19 Dec 2018 20:18

Tgt Ion: 62 Resp: 16046

Ion Ratio Lower Upper

62 100

64 28.8 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

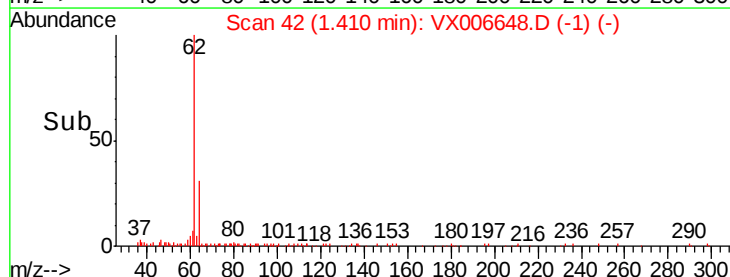
15000

10000

5000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

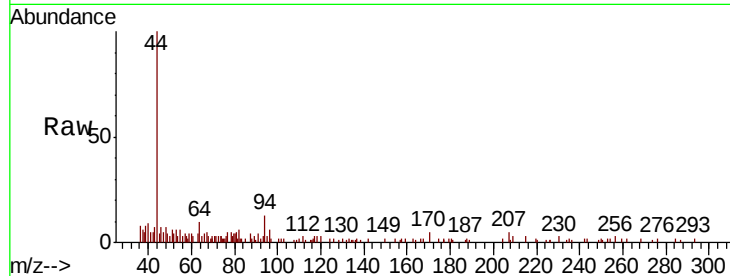
MW-3

Tot Ion: 94 Resp: 882

Ion Ratio Lower Upper

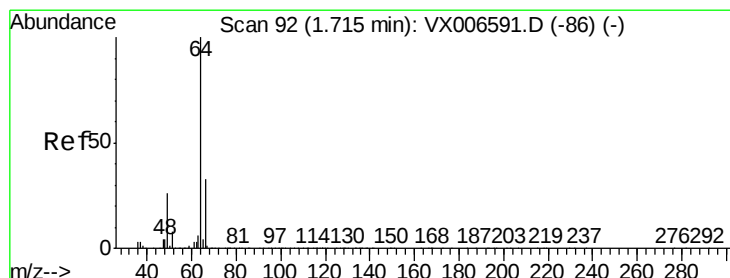
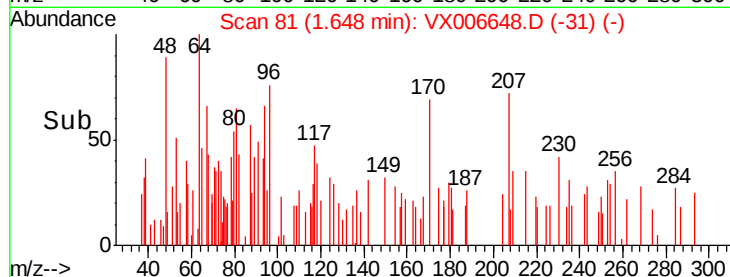
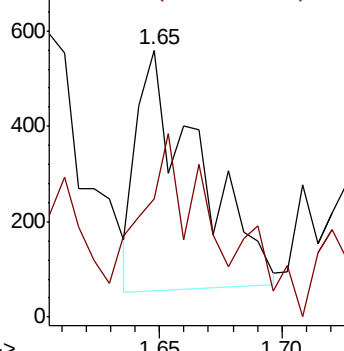
94 100

96 74.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.613 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX006648.D

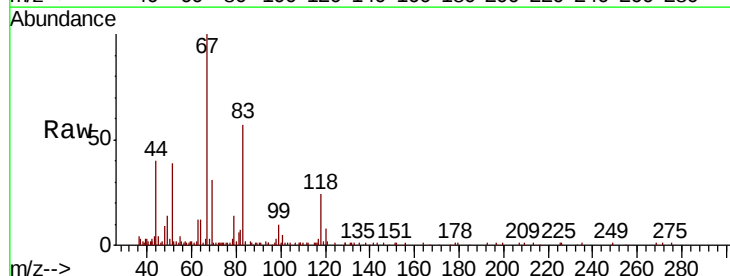
Acq: 19 Dec 2018 20:18

Tgt Ion: 64 Resp: 2620

Ion Ratio Lower Upper

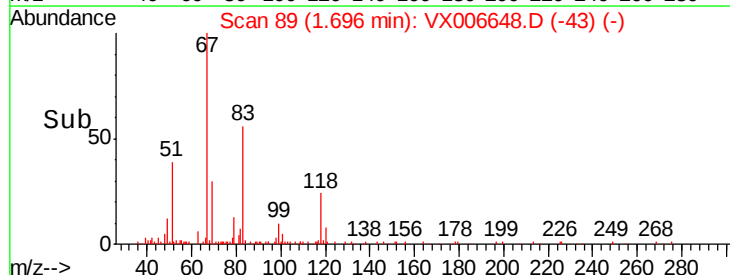
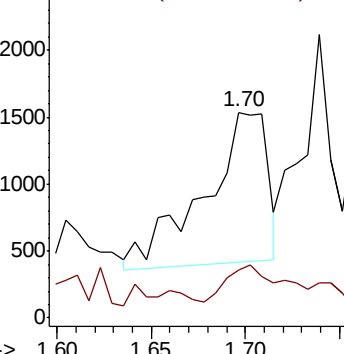
64 100

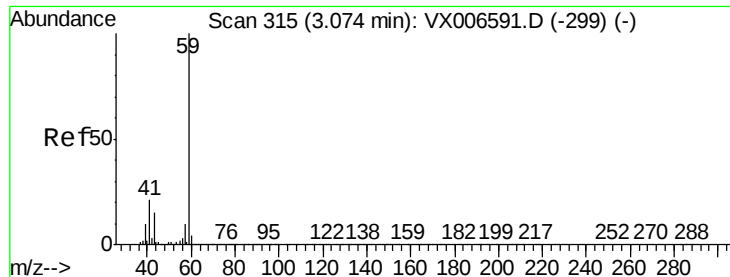
66 23.8 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



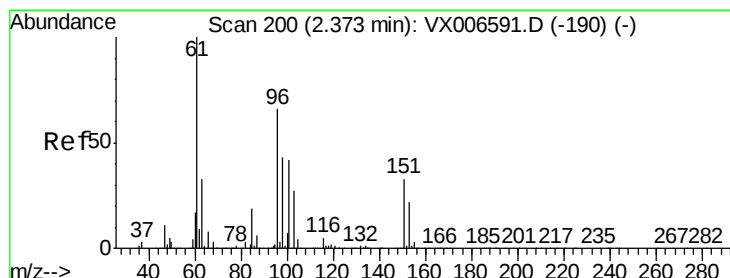
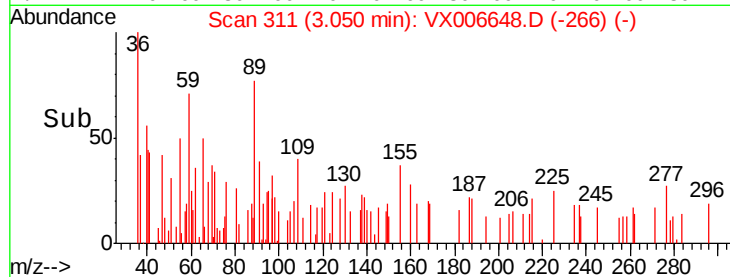
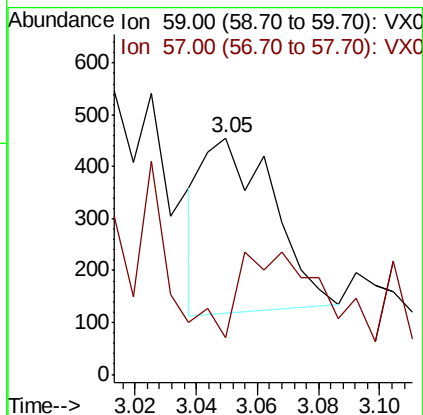
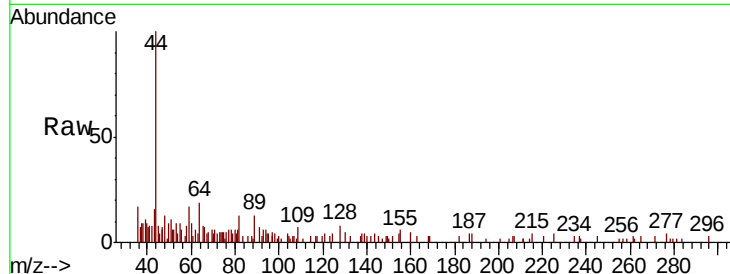


#11

Tert butyl alcohol
Concen: 0.369 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.02 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

Instrument :
MSVOA_X
ClientSampled :
MW-3

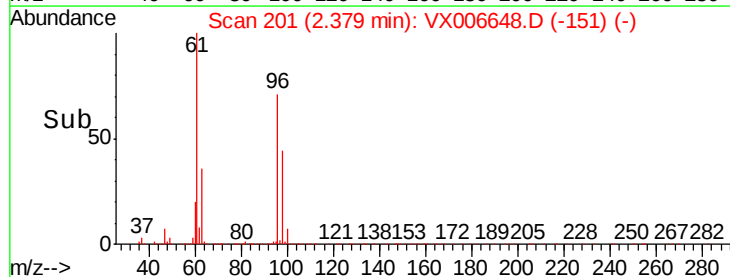
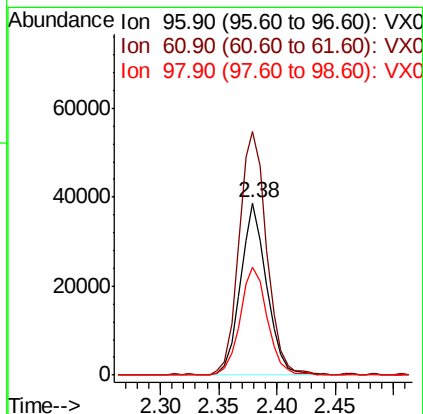
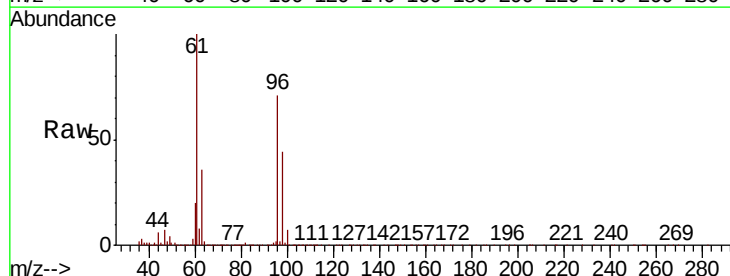
Tot Ion: 59 Resp: 533
Ion Ratio Lower Upper
59 100
57 58.3 8.5 12.7#

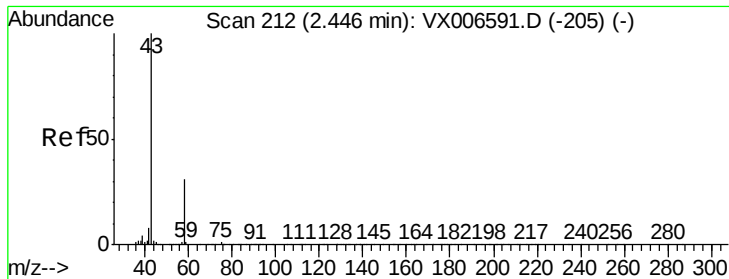


#12

1,1-Dichloroethene
Concen: 11.254 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

Tgt Ion: 96 Resp: 60331
Ion Ratio Lower Upper
96 100
61 141.0 121.4 182.2
98 62.3 51.9 77.9

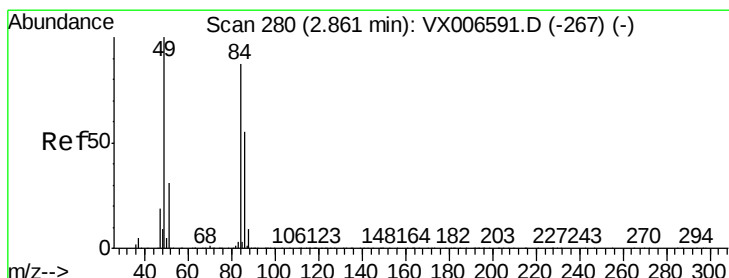
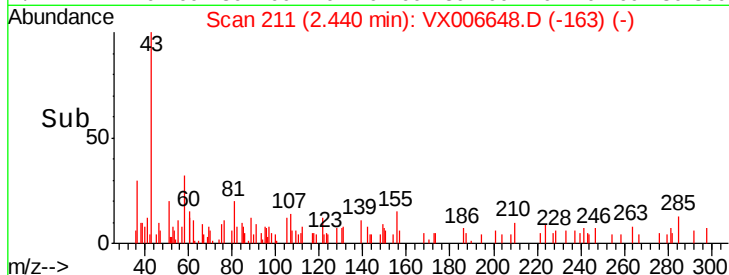
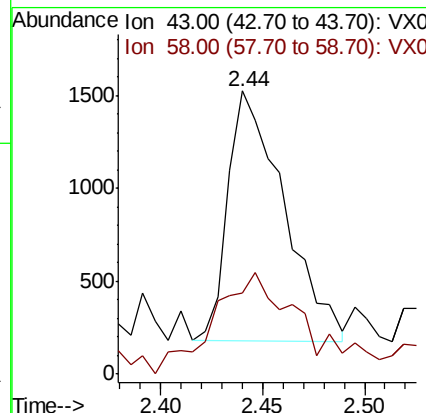
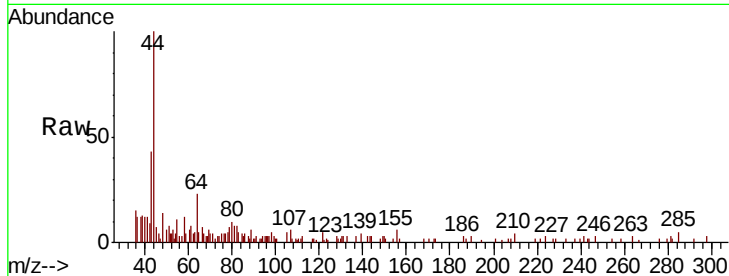




#16
Acetone
Concen: 0.864 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

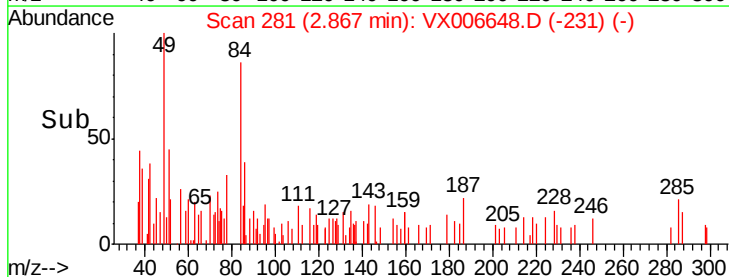
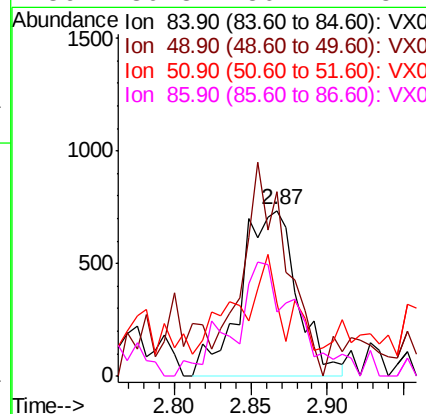
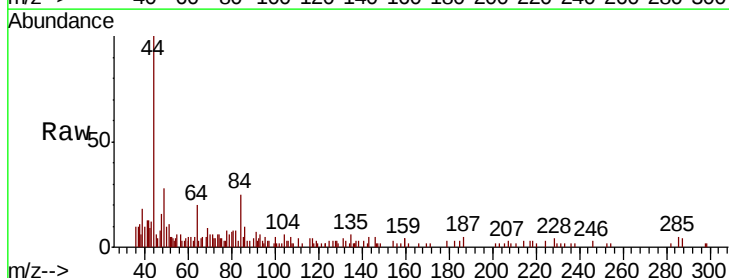
Instrument :
MSVOA_X
ClientSampleId :
MW-3

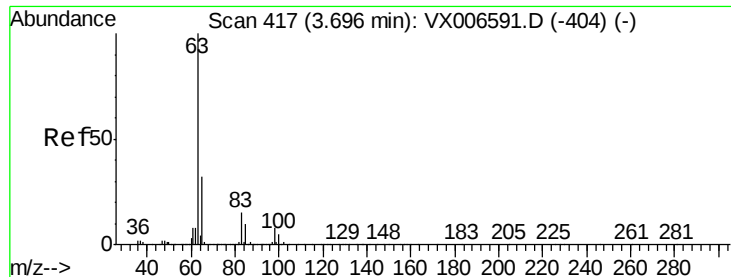
Tot Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
58 24.6 25.0 37.6#



#20
Methylene Chloride
Concen: 0.310 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

Tgt Ion: 84 Resp: 1906
Ion Ratio Lower Upper
84 100
49 96.9 91.8 137.6
51 30.7 28.5 42.7
86 30.8 50.2 75.2#





#24

1,1-Dichloroethane

Concen: 7.771 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

MW-3

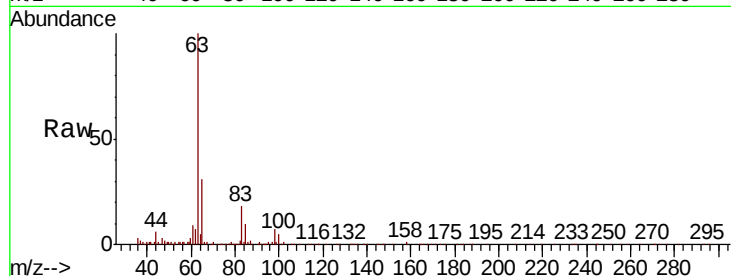
Tot Ion: 63 Resp: 76582

Ion Ratio Lower Upper

63 100

98 6.4 3.9 11.5

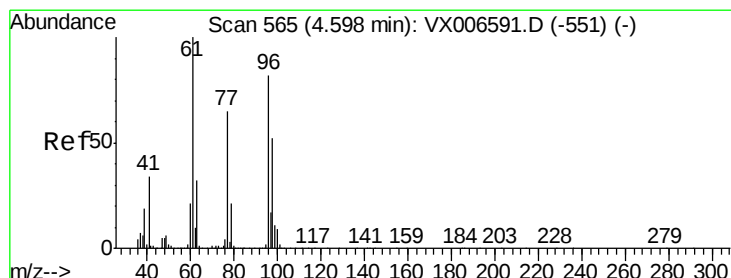
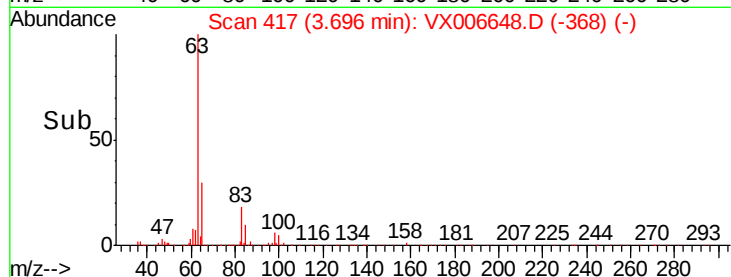
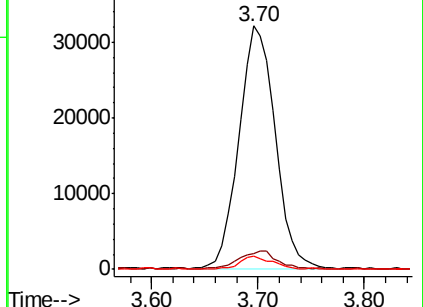
100 5.3 2.4 7.2



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: 2.085 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

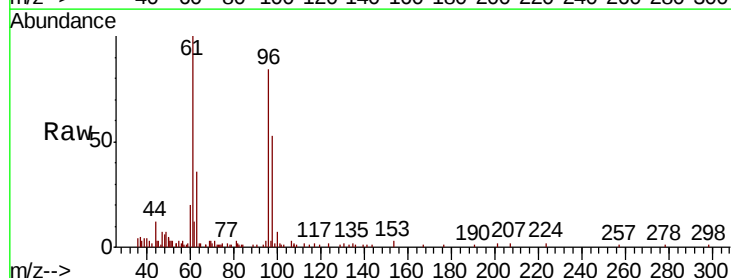
Tgt Ion: 96 Resp: 13665

Ion Ratio Lower Upper

96 100

61 118.9 0.0 258.6

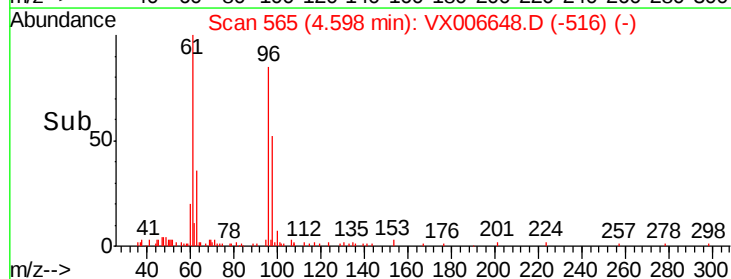
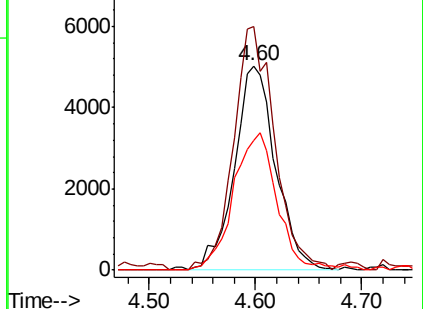
98 70.9 0.0 132.0

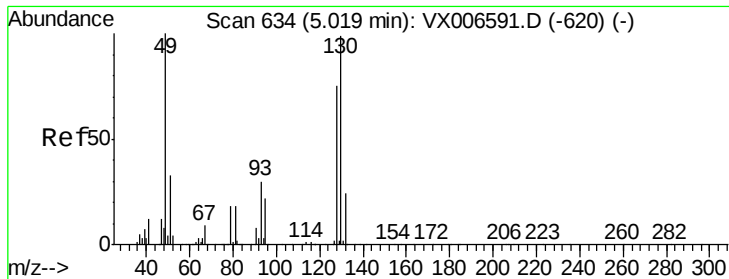


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

MW-3

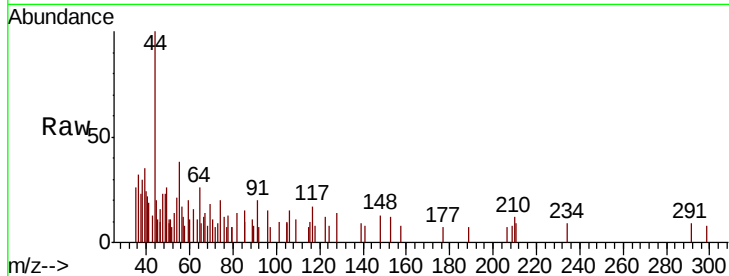
Tot Ion: 49 Resp: 316

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 33.2 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

500

400

300

200

100

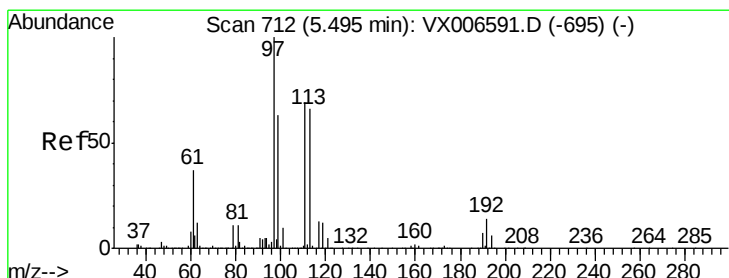
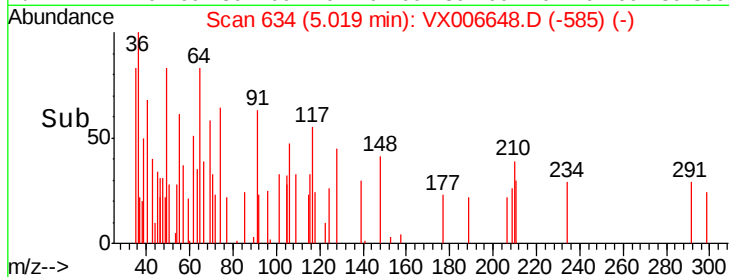
0

5.00

5.02

5.04

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.344 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

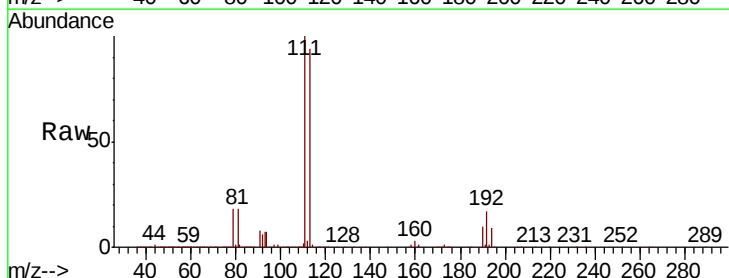
Tgt Ion: 97 Resp: 2960

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

61 60.8 31.3 46.9#



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

1000

500

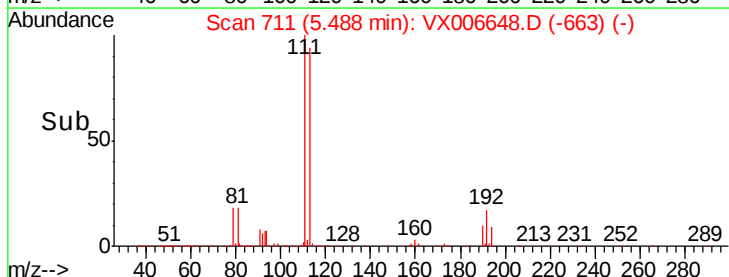
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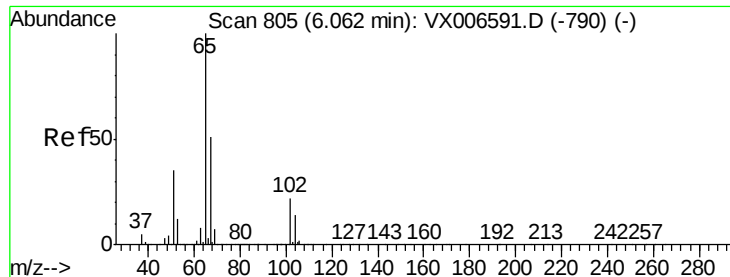
5.45

5.49

5.55

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.552 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

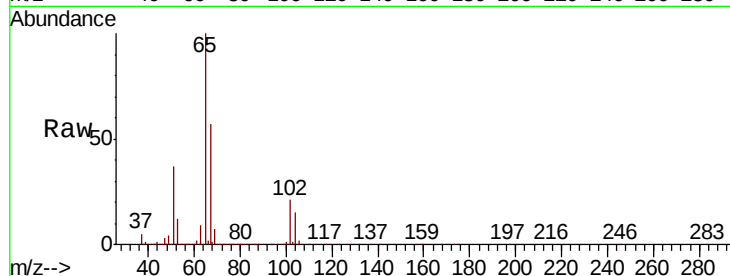
MW-3

Tot Ion: 65 Resp: 339832

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

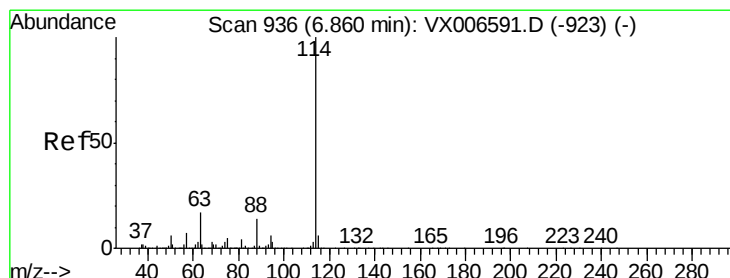
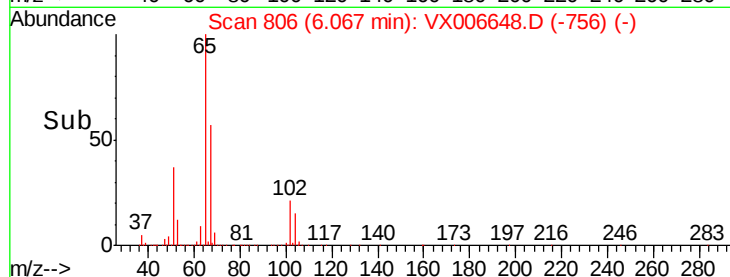
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

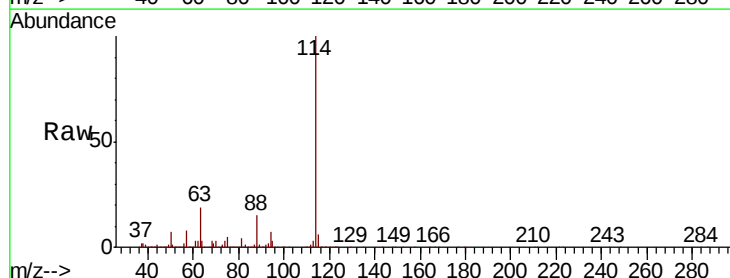
Tgt Ion: 114 Resp: 958952

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

88 15.4 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

6.86

500000

400000

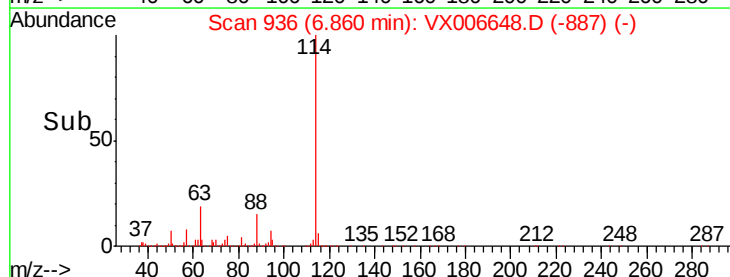
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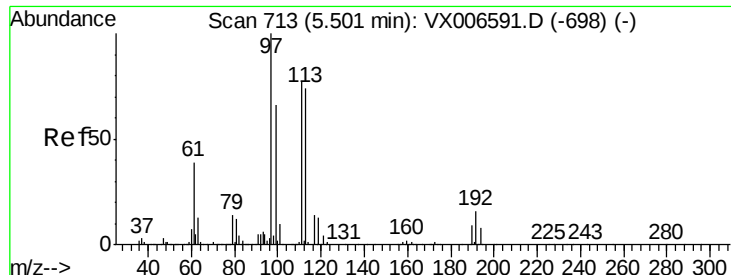
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.910 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

MW-3

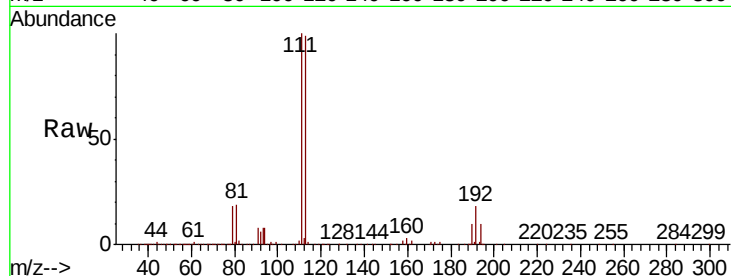
Tot Ion:113 Resp: 290538

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

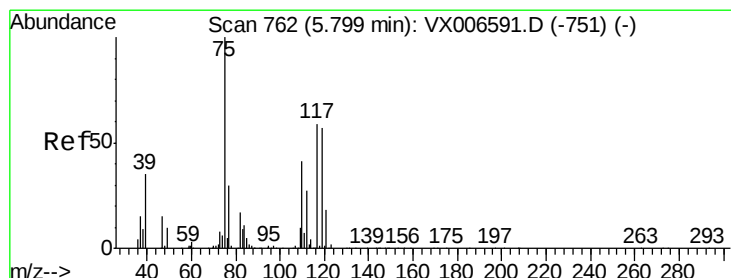
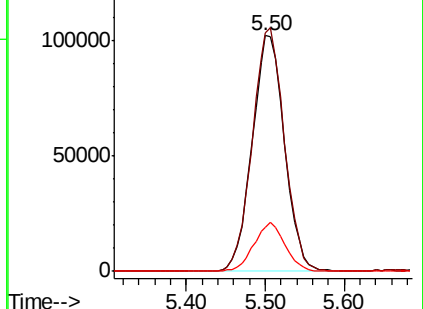
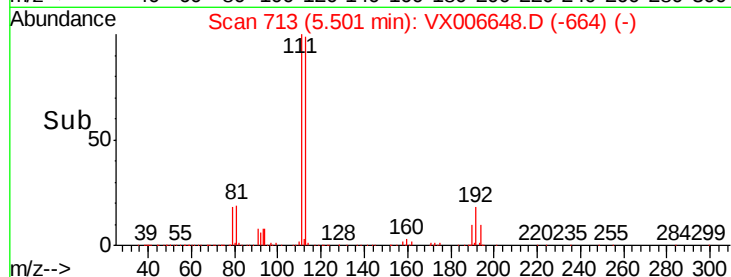
192 19.9 16.7 25.1



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: 5.126 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

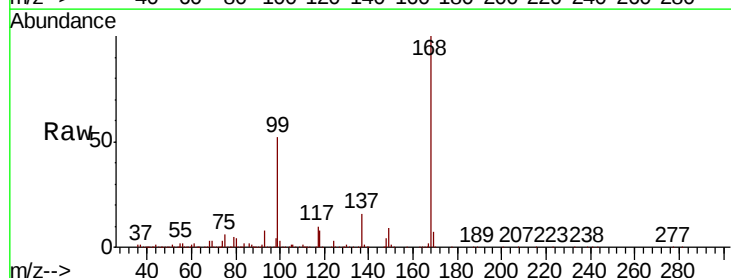
Tgt Ion: 75 Resp: 40710

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

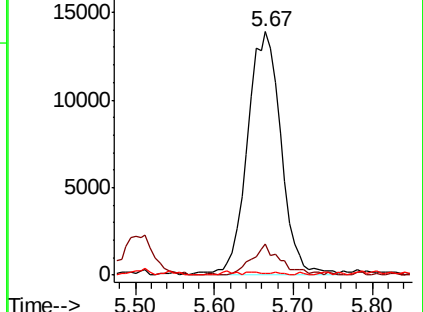
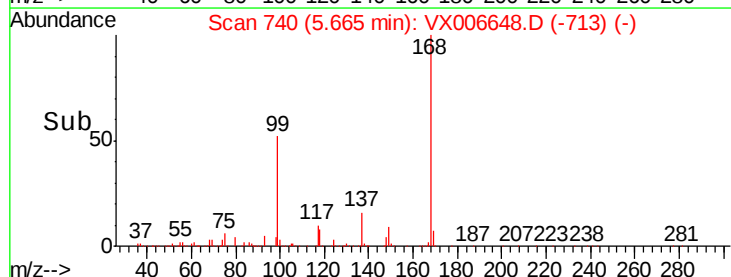
77 0.4 24.8 37.2#

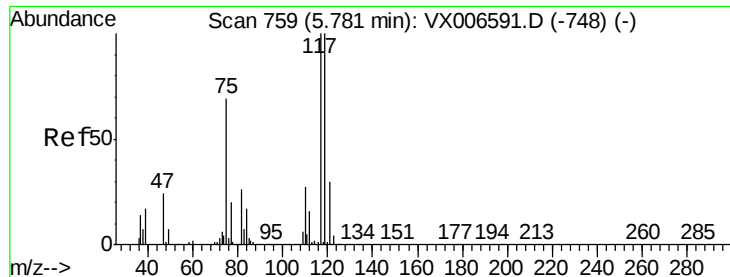


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.470 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

MW-3

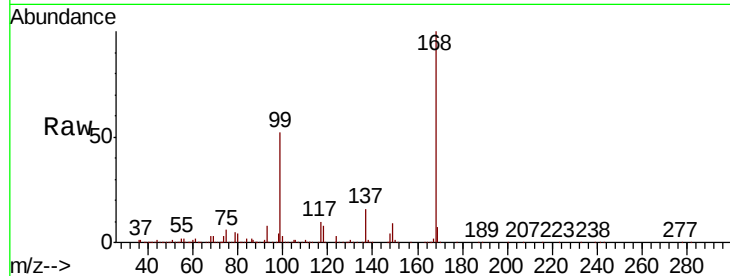
Tot Ion:117 Resp: 57658

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

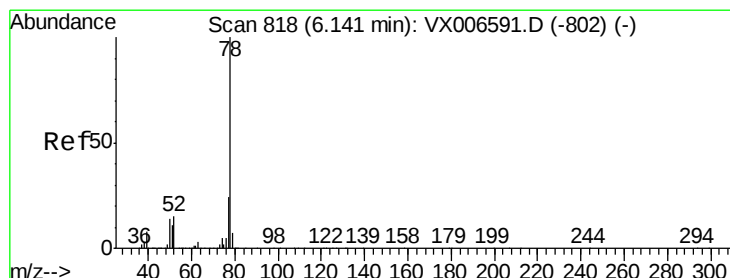
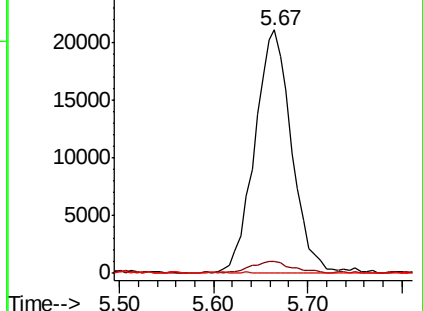
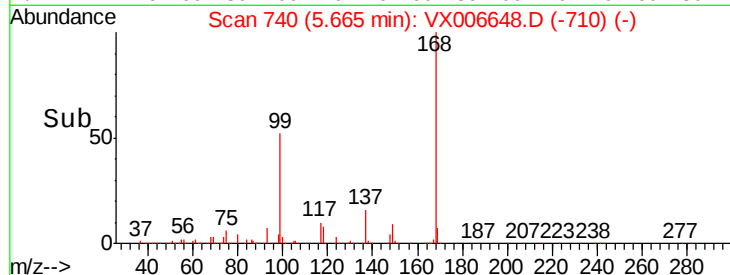
121 0.0 24.0 36.0#



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



#40

Benzene

Concen: 0.227 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX006648.D

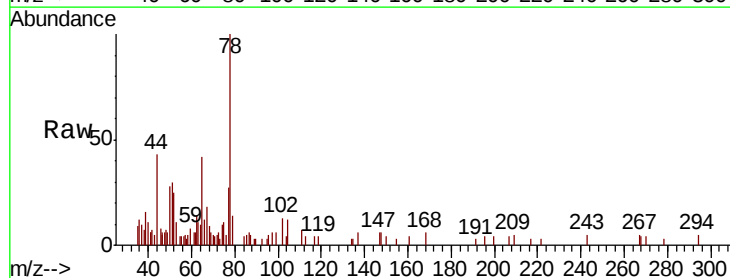
Acq: 19 Dec 2018 20:18

Tgt Ion: 78 Resp: 5482

Ion Ratio Lower Upper

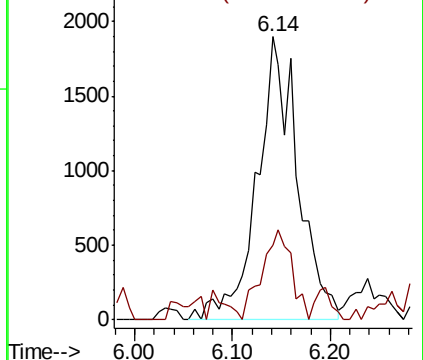
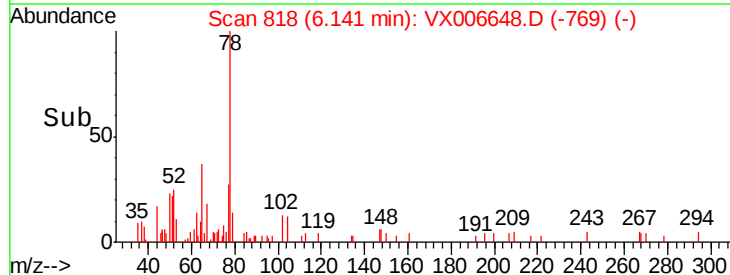
78 100

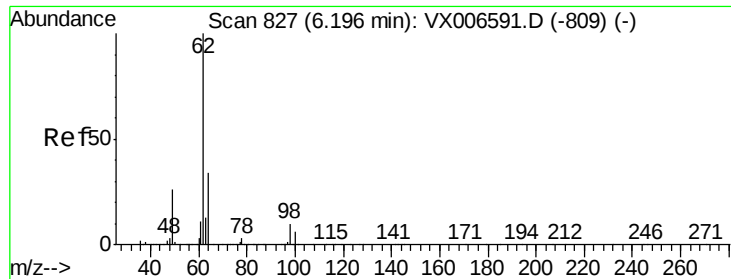
77 23.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.274 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

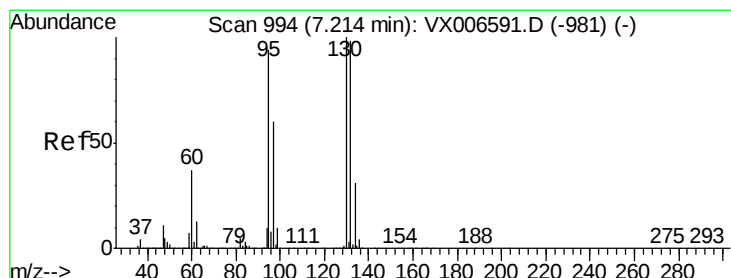
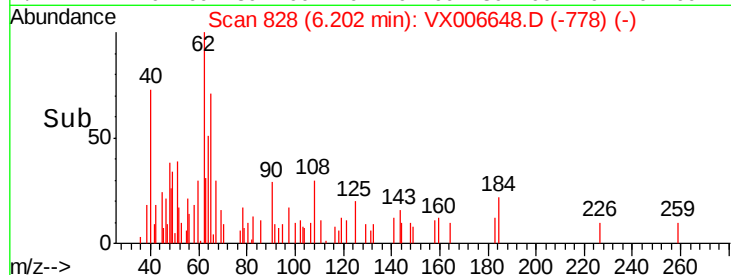
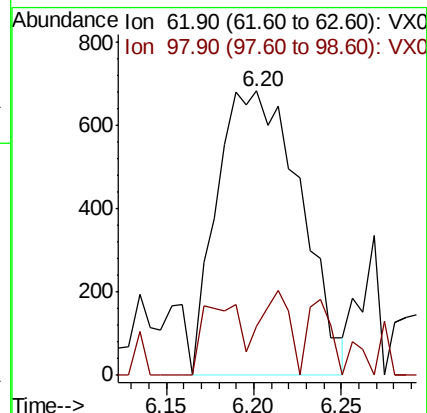
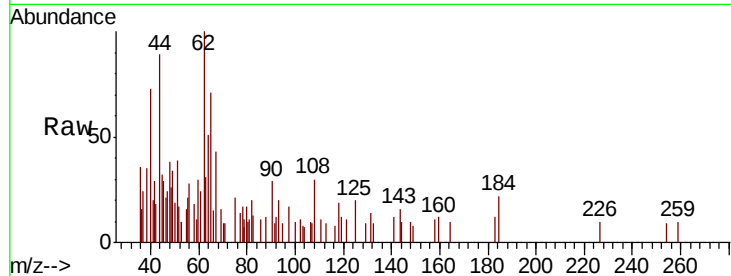
MW-3

Tot Ion: 62 Resp: 2255

Ion Ratio Lower Upper

62 100

98 10.3 0.0 20.2



#44

Trichloroethene

Concen: 0.276 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006648.D

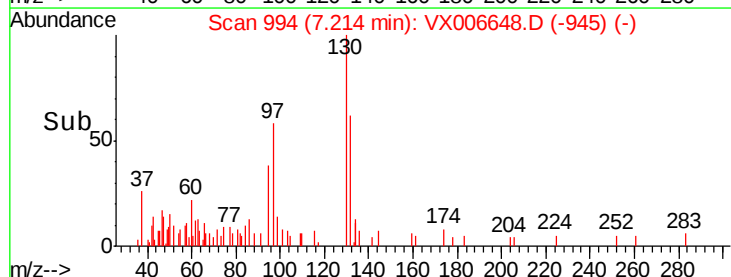
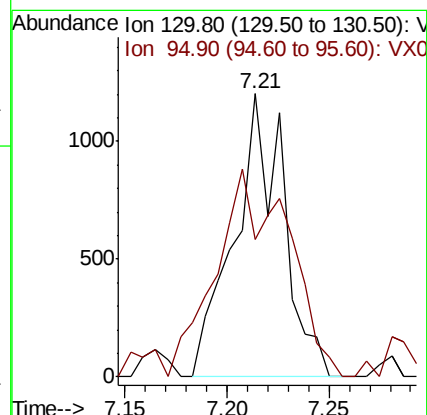
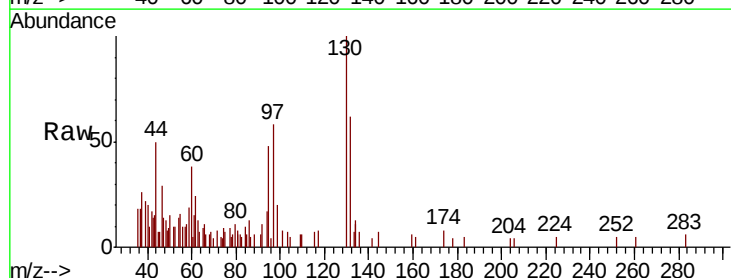
Acq: 19 Dec 2018 20:18

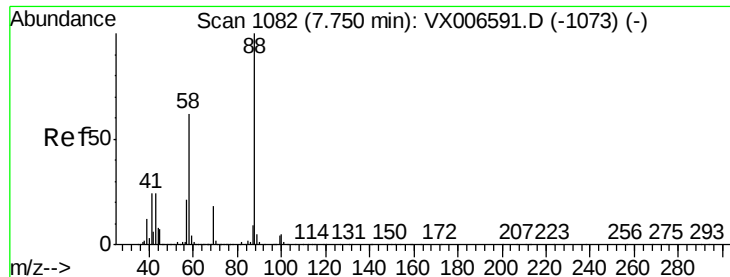
Tgt Ion: 130 Resp: 2019

Ion Ratio Lower Upper

130 100

95 48.4 0.0 187.0





#49

1,4-Dioxane

Concen: 8.579 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

MW-3

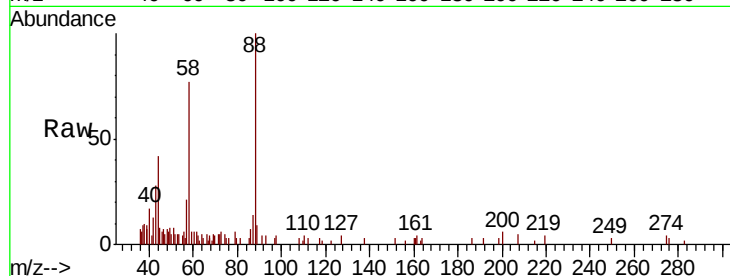
Tot Ion: 88 Resp: 4734

Ion Ratio Lower Upper

88 100

43 41.1 22.2 33.4#

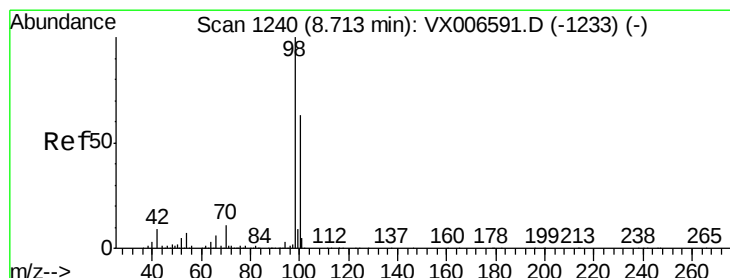
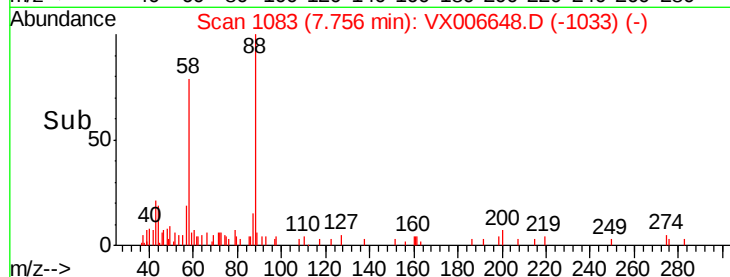
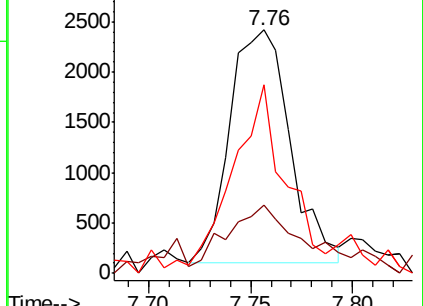
58 68.1 51.0 76.4



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: 50.096 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006648.D

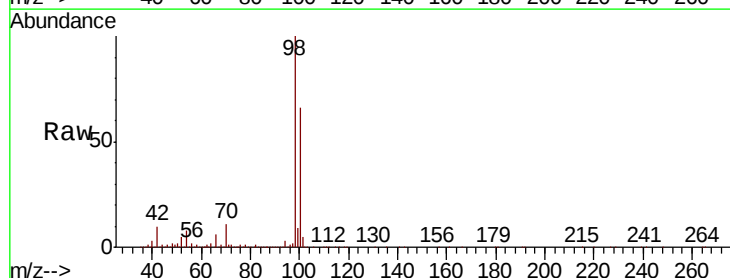
Acq: 19 Dec 2018 20:18

Tgt Ion: 98 Resp: 1145321

Ion Ratio Lower Upper

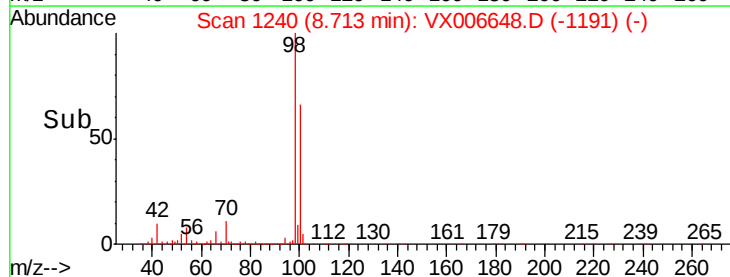
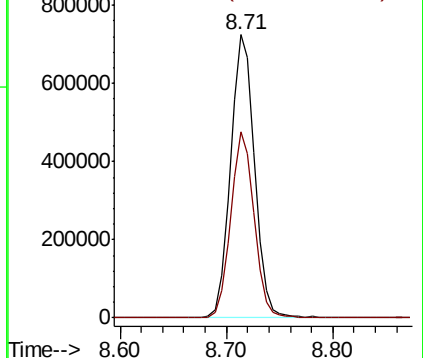
98 100

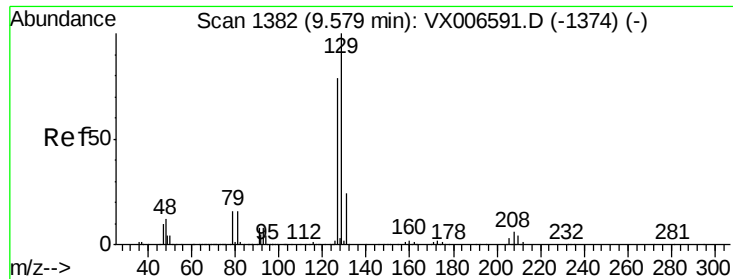
100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.343 ug/l

RT: 9.41 min Scan# 1355

Delta R.T. -0.16 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampled :

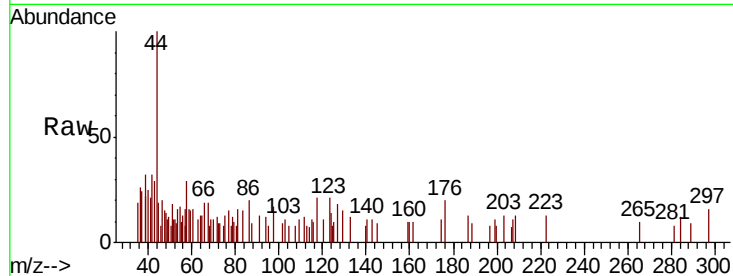
MW-3

Tot Ion:129 Resp: 135

Ion Ratio Lower Upper

129 100

127 51.9 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

150

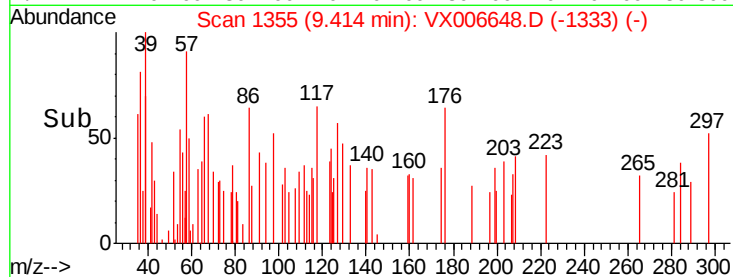
100

50

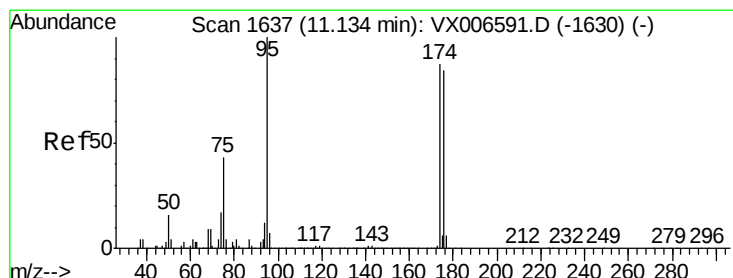
0

9.38 9.40 9.42 9.44

9.41



Time-->



#62

4-Bromofluorobenzene

Concen: 49.121 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

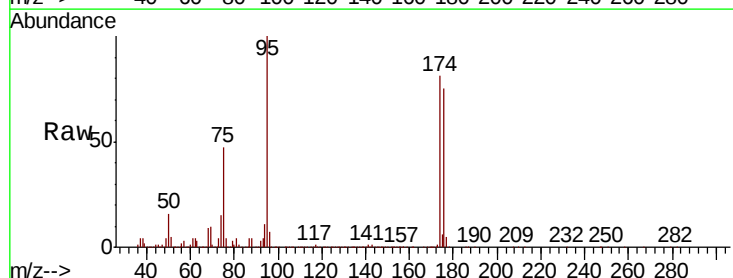
Tgt Ion: 95 Resp: 411295

Ion Ratio Lower Upper

95 100

174 85.3 0.0 182.2

176 82.5 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

400000

300000

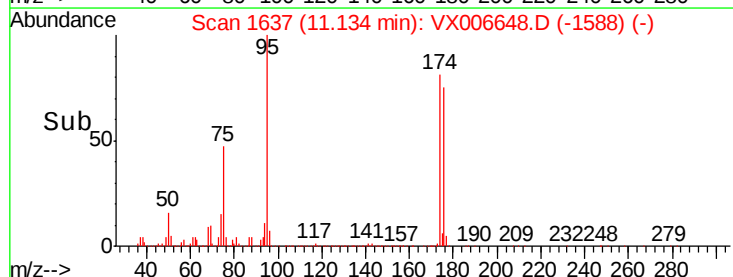
200000

100000

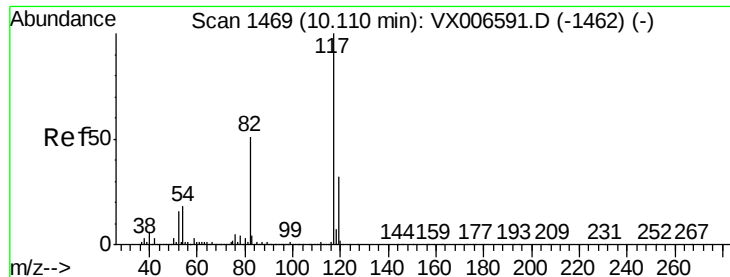
0

11.10 11.20

11.13



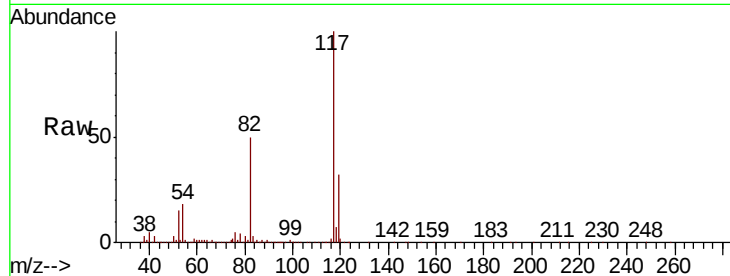
Time-->



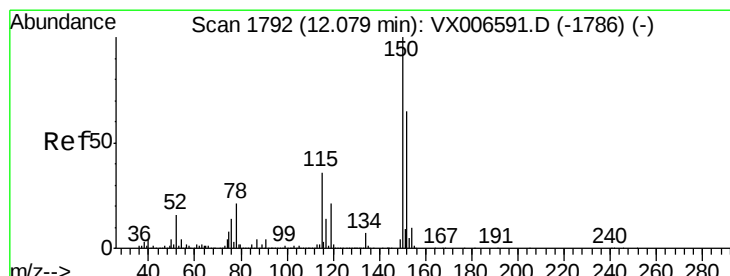
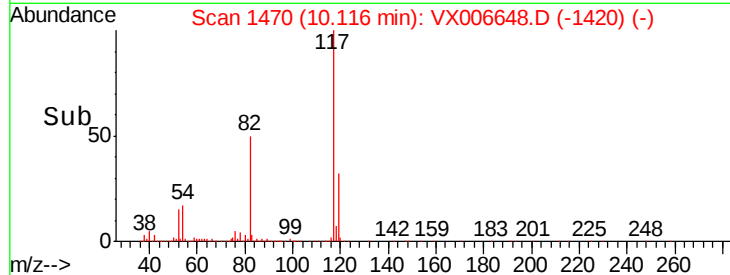
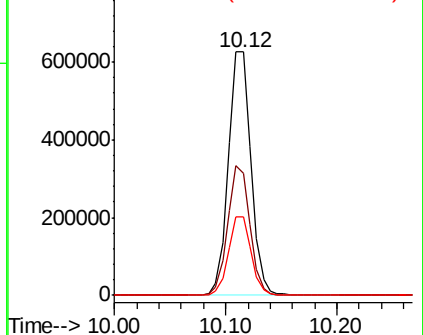
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.0	61.6
119	32.3	25.4	38.0

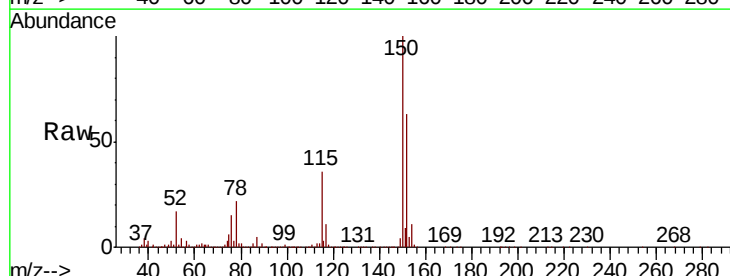


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

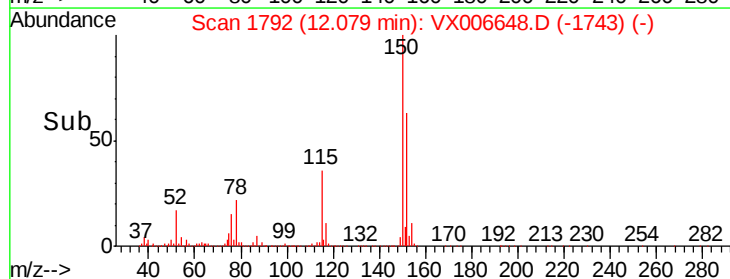
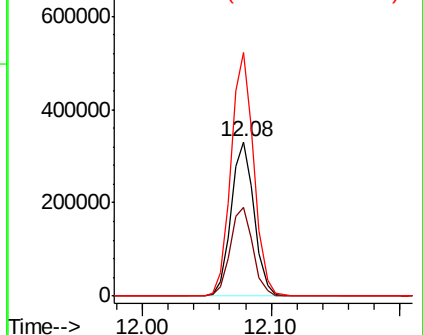


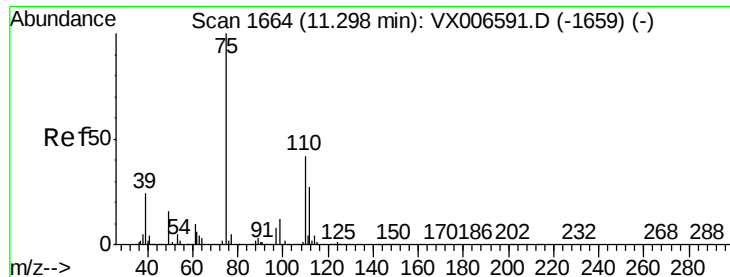
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006648.D
Acq: 19 Dec 2018 20:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.1	39.1	117.2
150	157.1	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: 25.377 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

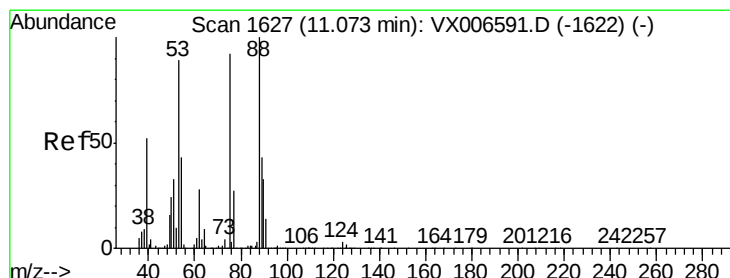
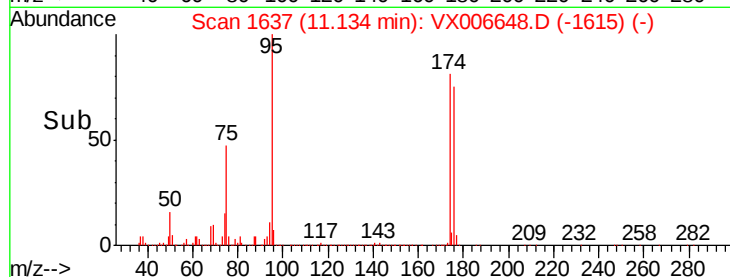
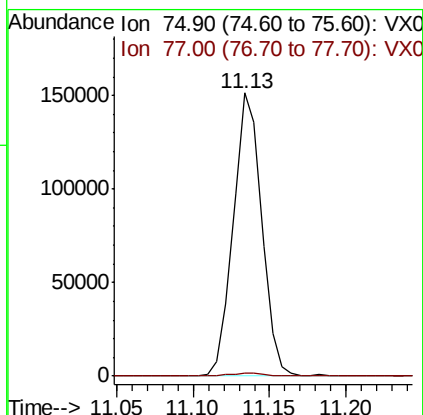
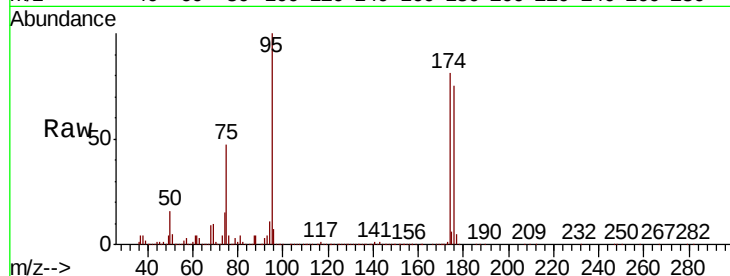
MW-3

Tot Ion: 75 Resp: 194559

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.924 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

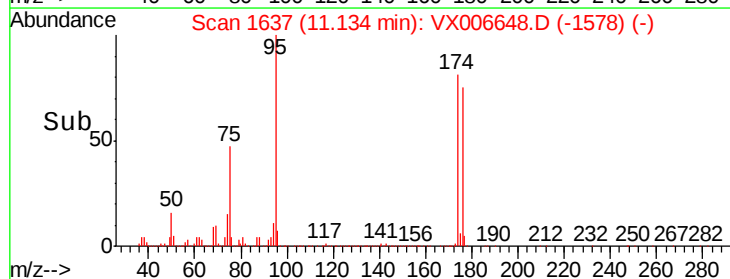
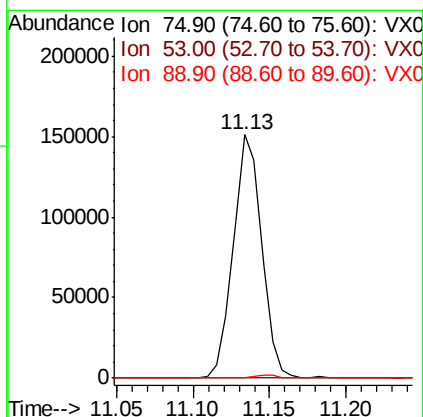
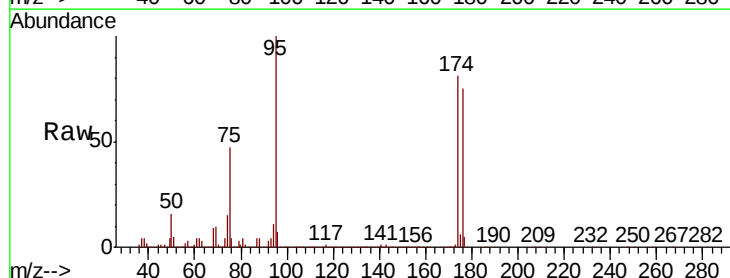
Tgt Ion: 75 Resp: 194559

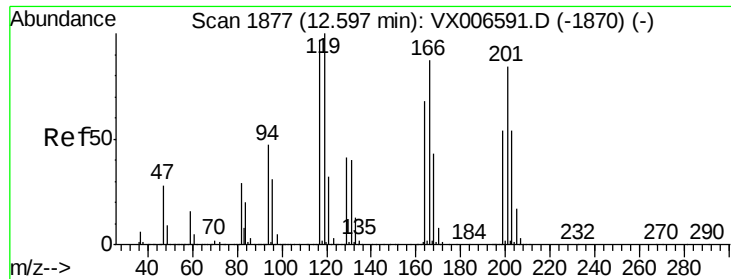
Ion Ratio Lower Upper

75 100

53 0.5 79.7 119.5#

89 1.2 38.0 57.0#





#90

Hexachloroethane

Concen: 3.310 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006648.D

Acq: 19 Dec 2018 20:18

Instrument :

MSVOA_X

ClientSampleId :

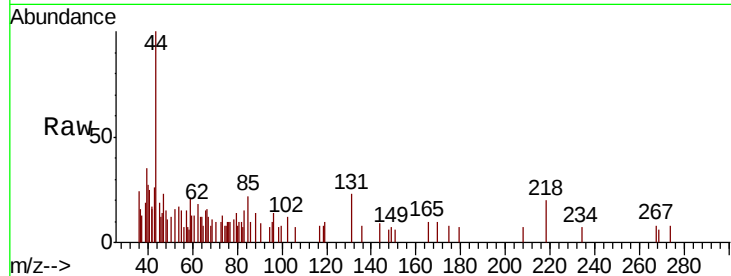
MW-3

Tot Ion:117 Resp: 69

Ion Ratio Lower Upper

117 100

201 79.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

