

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009288.D
 Acq On : 02 May 2019 21:09
 Operator : JC/SP
 Sample : K2660-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW172-190429

Quant Time: May 03 02:45:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	187257	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	298500	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	107499	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	122747	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
35) Dibromofluoromethane	5.50	113	91610	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	8.71	98	374061	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.13	95	121591	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

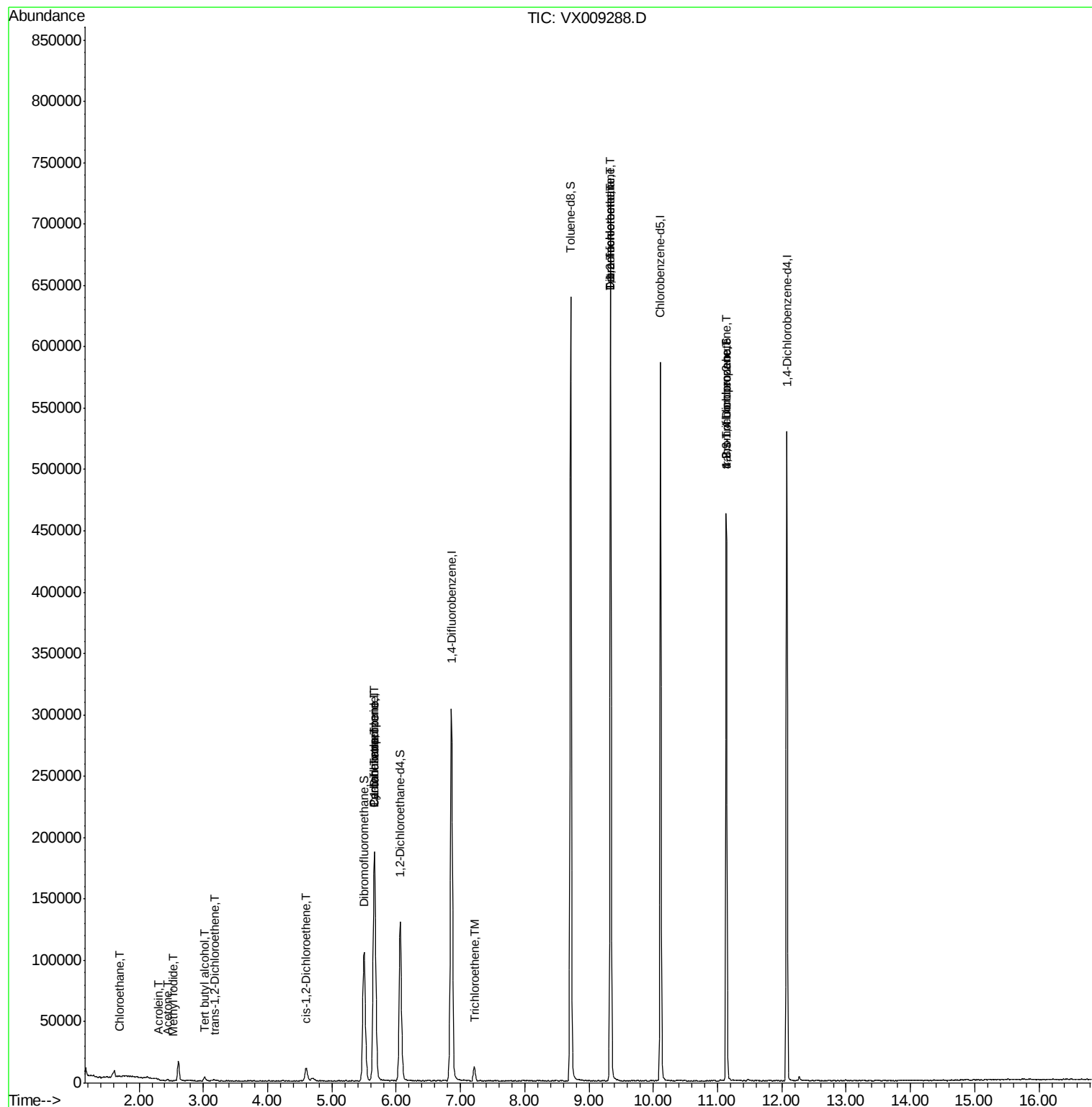
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	3275	2.220	ug/l #	56
10) Methyl Iodide	2.52	142	20	4.603	ug/l #	42
11) Tert butyl alcohol	3.02	59	1844	3.116	ug/l #	76
13) Acrolein	2.29	56	185	0.345	ug/l #	62
16) Acetone	2.45	43	1279	0.932	ug/l	92
21) trans-1,2-Dichloroethene	3.17	96	411	0.216	ug/l #	75
27) cis-1,2-Dichloroethene	4.60	96	6538	2.875	ug/l	92
28) Bromochloromethane	5.04	49	39	Below Cal	#	20
31) Cyclohexane	5.65	56	4218	1.116	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14373	5.181	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17459	6.927	ug/l #	16
44) Trichloroethene	7.22	130	4766	2.296	ug/l	96
55) 1,1,2-Trichloroethane	9.34	97	1251	0.588	ug/l #	6
60) Dibromochloromethane	9.34	129	129223	62.144	ug/l #	11
64) Tetrachloroethene	9.34	164	139005	78.516	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	61754	24.765	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61754	63.365	ug/l #	10

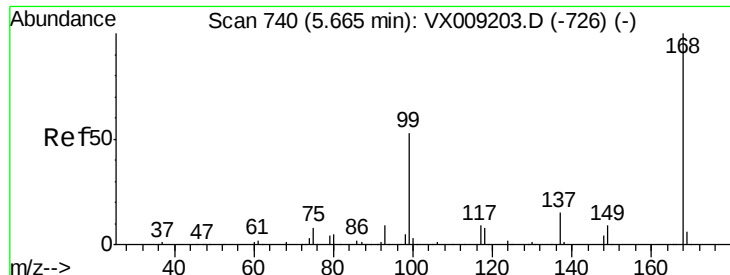
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

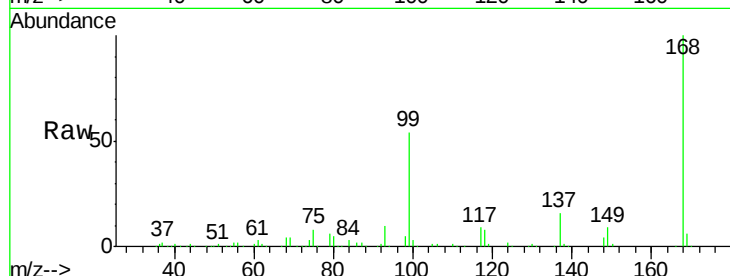
ST008MW172-190429

Tot Ion:168 Resp: 187257

Ion Ratio Lower Upper

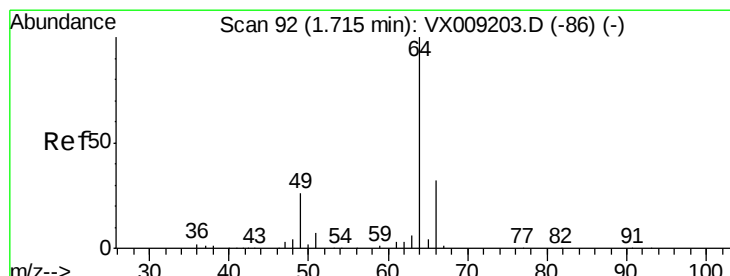
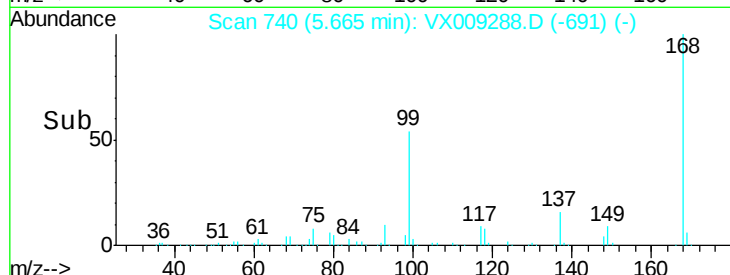
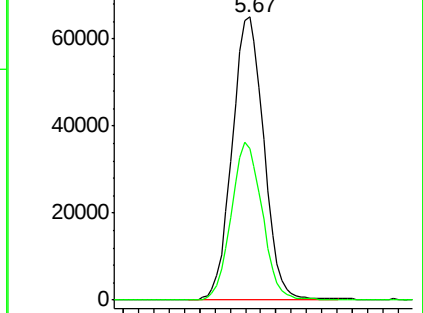
168 100

99 53.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 2.220 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX009288.D

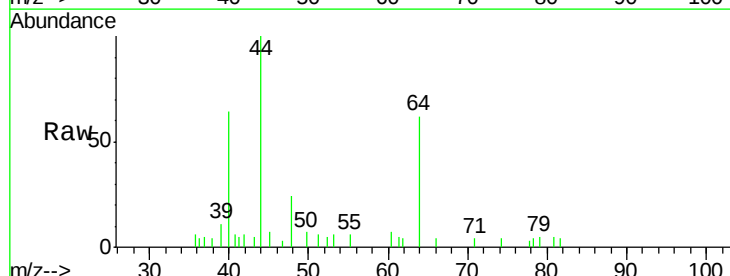
Acq: 02 May 2019 21:09

Tgt Ion: 64 Resp: 3275

Ion Ratio Lower Upper

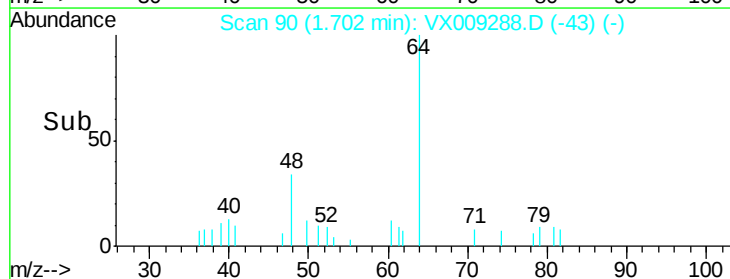
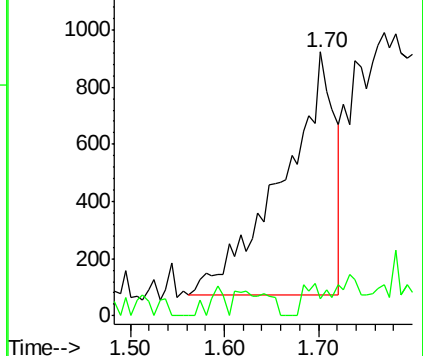
64 100

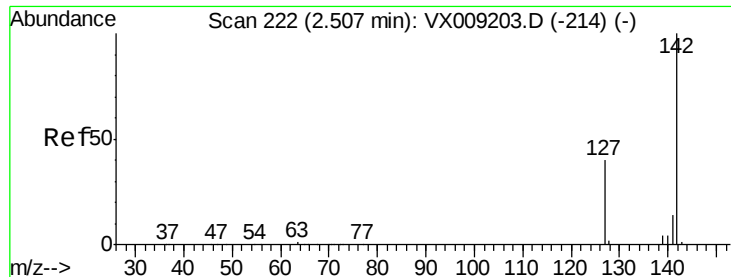
66 7.2 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

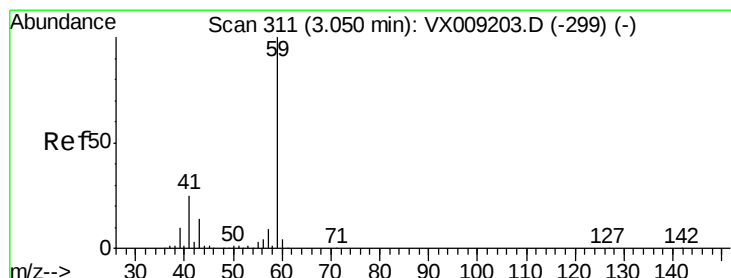
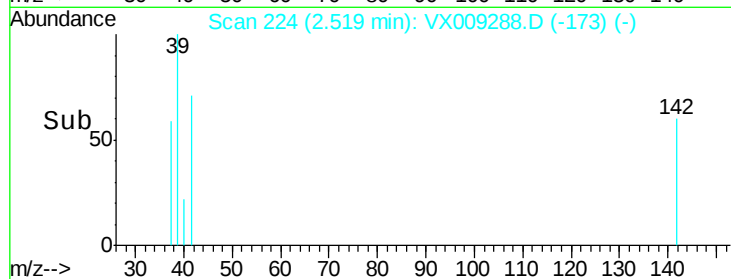
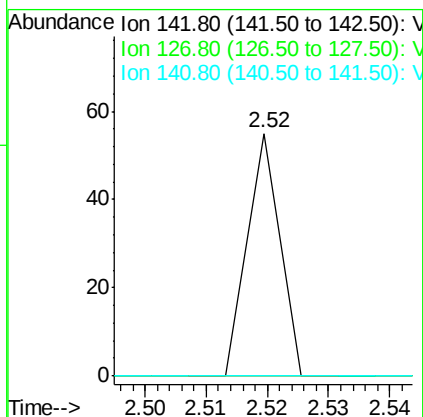
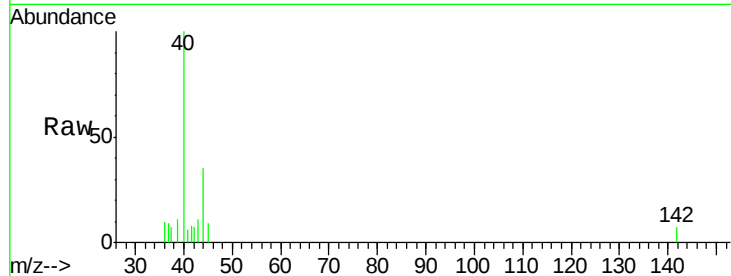




#10
Methyl Iodide
Concen: 4.603 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009288.D
Acq: 02 May 2019 21:09

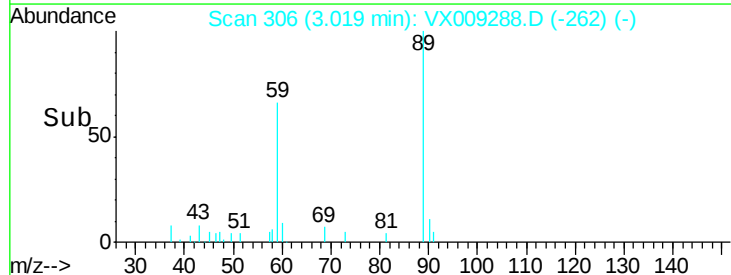
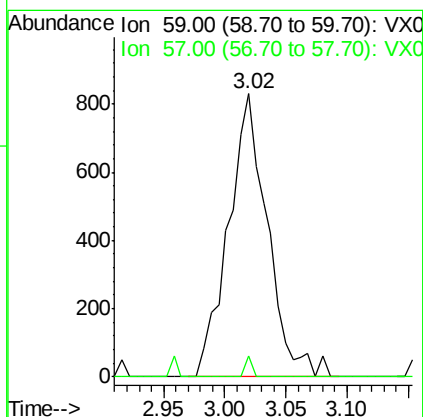
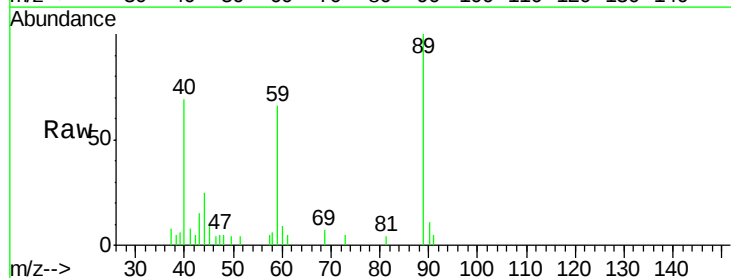
Instrument :
MSVOA_X
ClientSampleId :
ST008MW172-190429

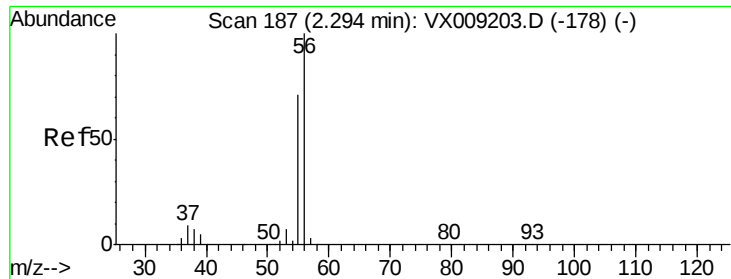
Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.116 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009288.D
Acq: 02 May 2019 21:09

Tgt Ion: 59 Resp: 1844
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.2#





#13

Acrolein

Concen: 0.345 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

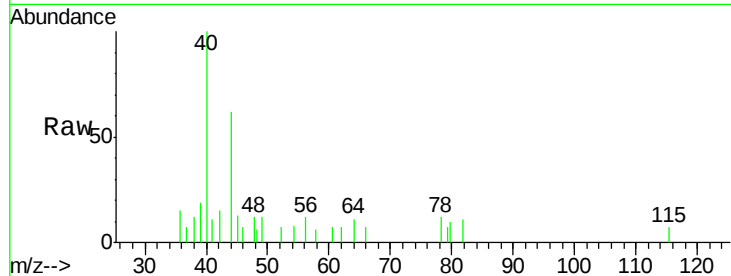
ST008MW172-190429

Tot Ion: 56 Resp: 185

Ion Ratio Lower Upper

56 100

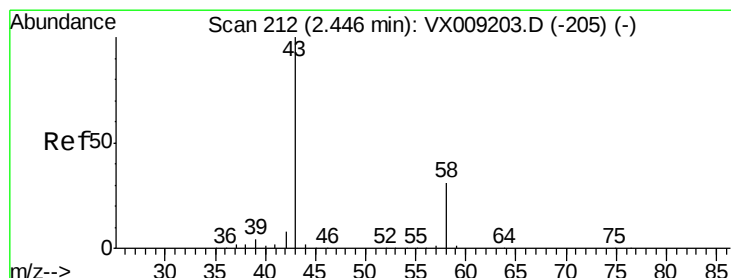
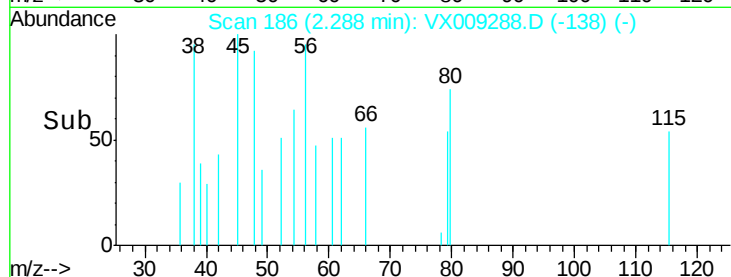
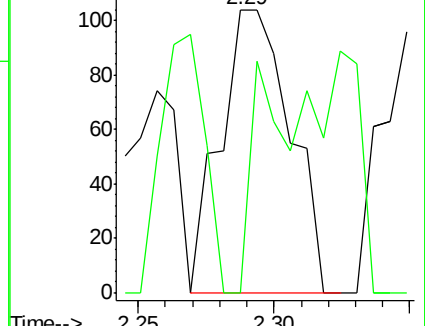
55 39.5 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29



#16

Acetone

Concen: 0.932 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009288.D

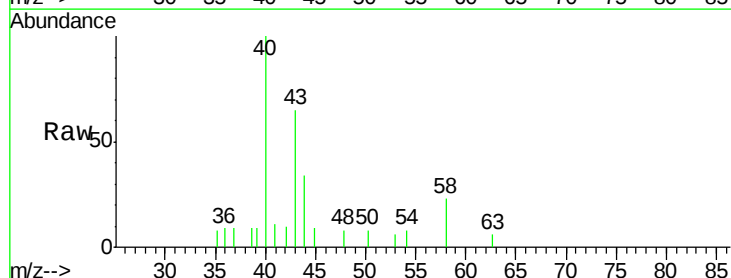
Acq: 02 May 2019 21:09

Tgt Ion: 43 Resp: 1279

Ion Ratio Lower Upper

43 100

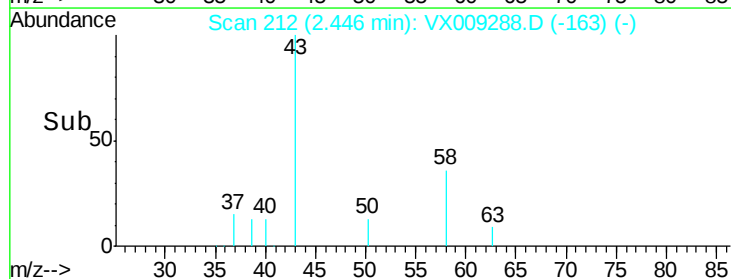
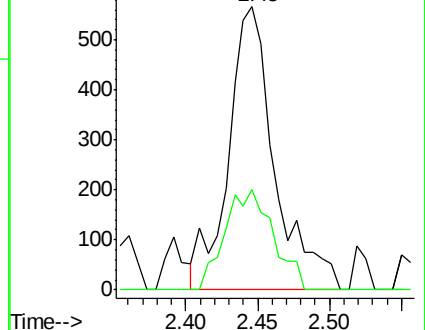
58 35.5 24.9 37.3

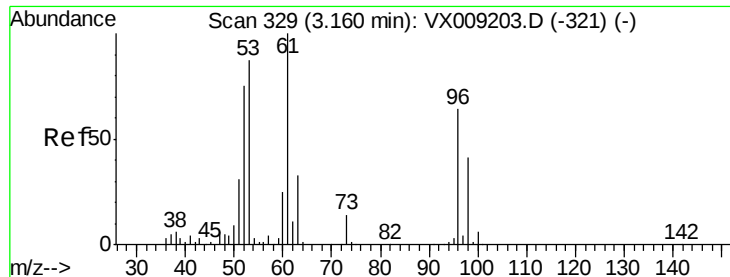


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45





#21

trans-1,2-Dichloroethene

Concen: 0.216 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

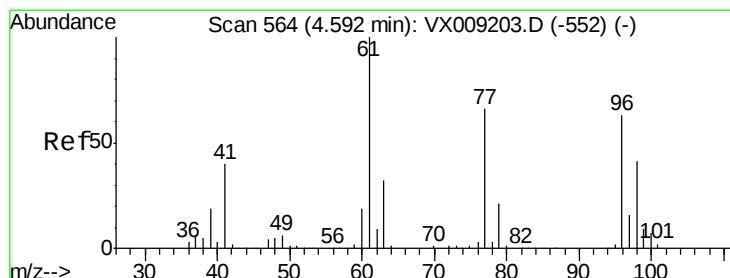
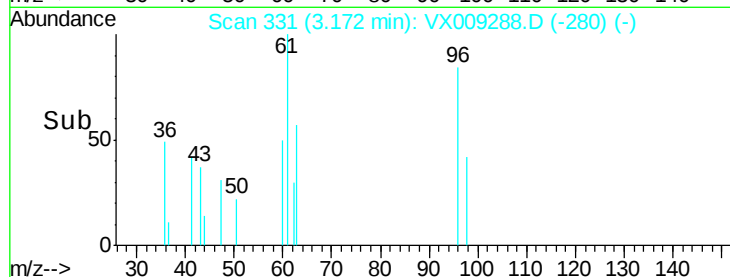
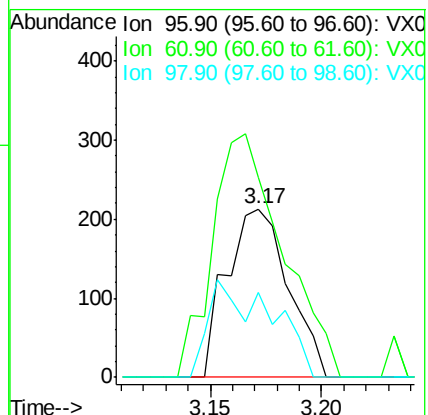
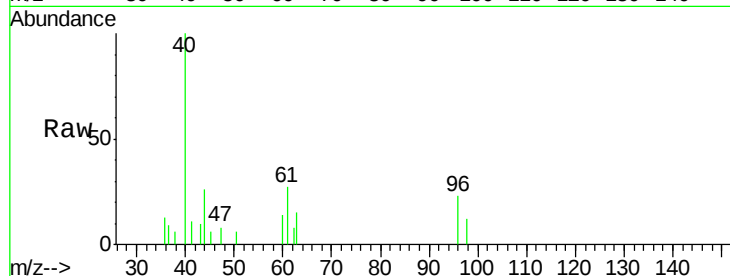
Tot Ion: 96 Resp: 411

Ion Ratio Lower Upper

96 100

61 118.8 124.5 186.7#

98 50.2 50.4 75.6#



#27

cis-1,2-Dichloroethene

Concen: 2.875 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

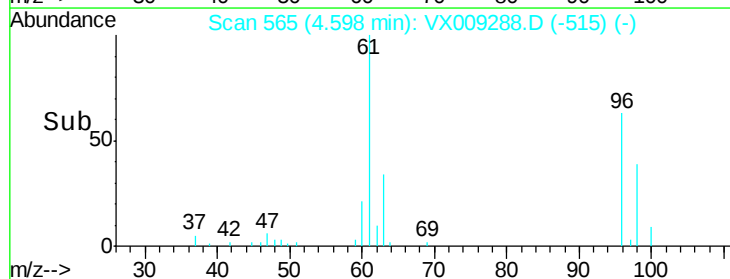
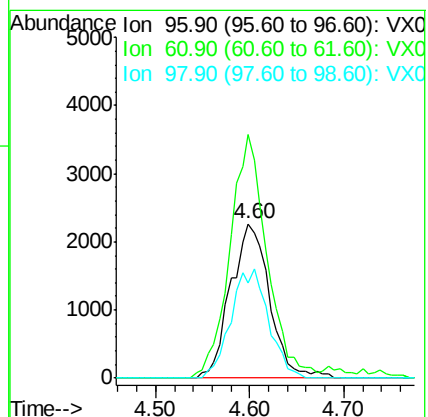
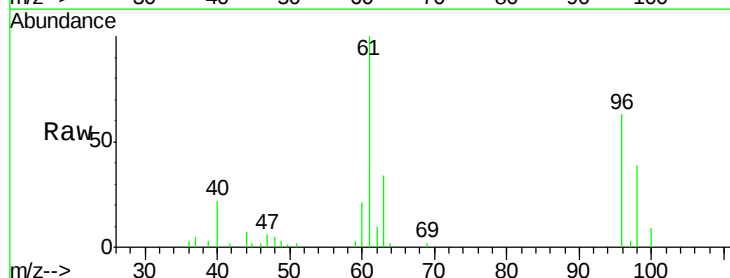
Tgt Ion: 96 Resp: 6538

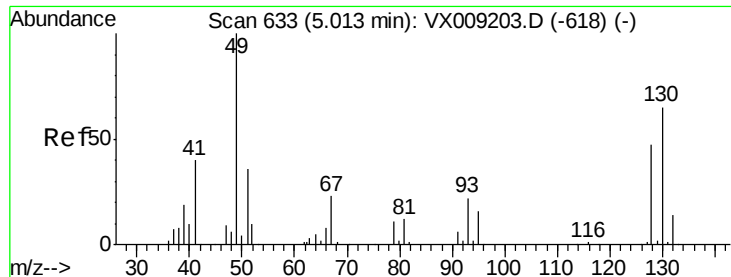
Ion Ratio Lower Upper

96 100

61 149.5 0.0 324.0

98 68.0 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.03 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

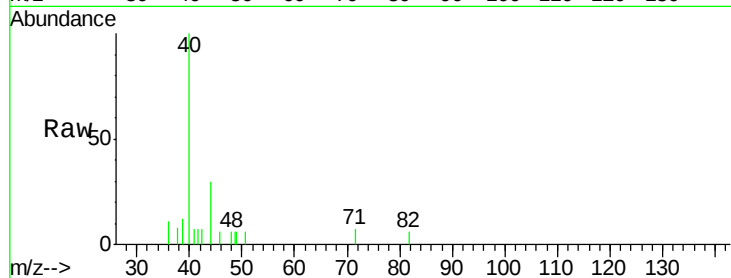
Tot Ion: 49 Resp: 39

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

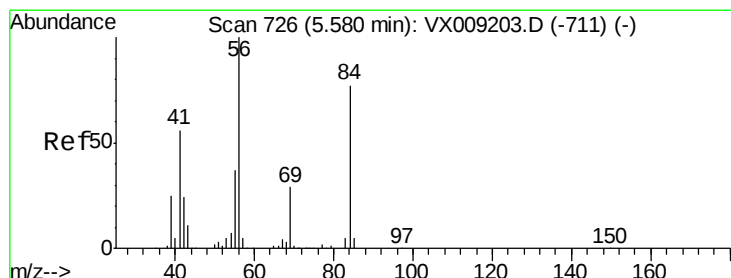
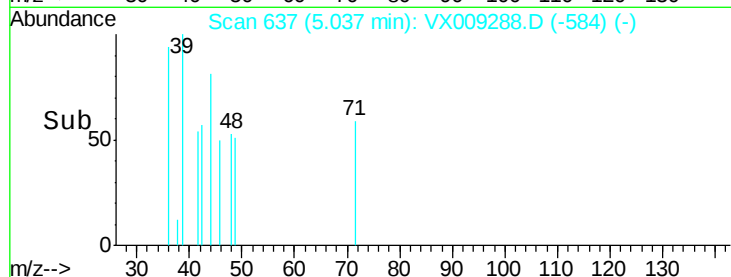
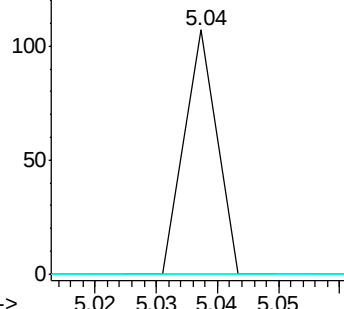
130 0.0 51.2 76.8#



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



#31

Cyclohexane

Concen: 1.116 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

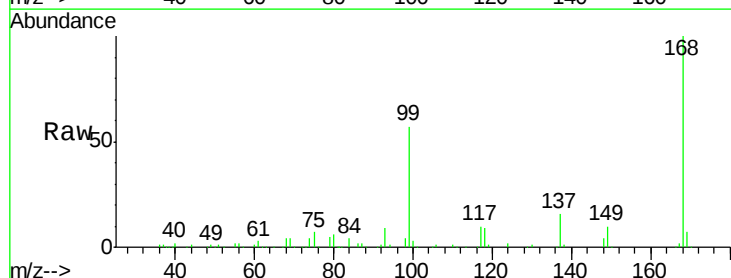
Tgt Ion: 56 Resp: 4218

Ion Ratio Lower Upper

56 100

69 157.4 23.4 35.0#

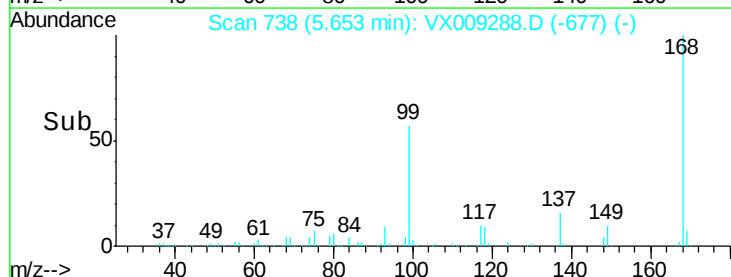
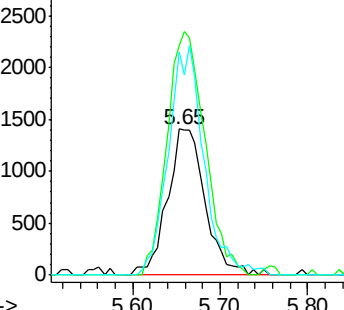
84 153.0 61.9 92.9#



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





#33

1,2-Dichloroethane-d4

Concen: 48.018 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

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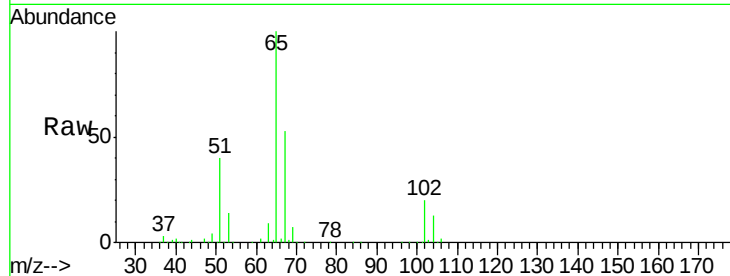
ST008MW172-190429

Tot Ion: 65 Resp: 122747

Ion Ratio Lower Upper

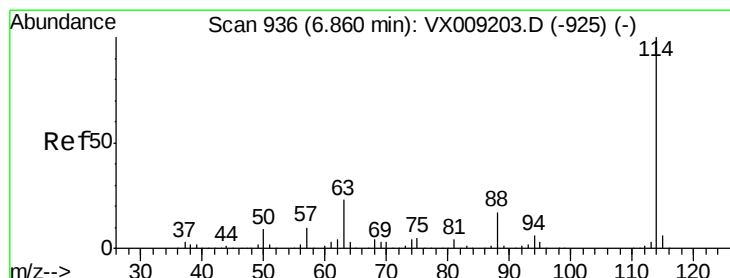
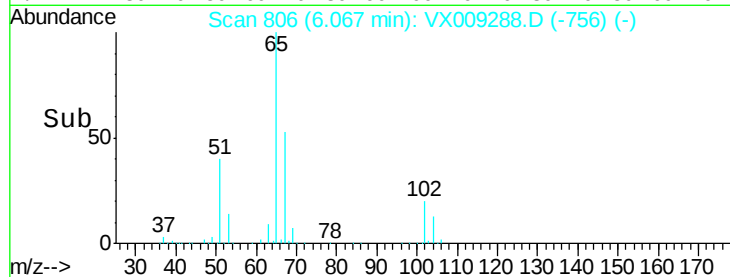
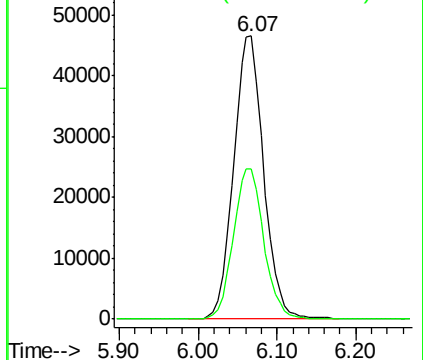
65 100

67 54.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

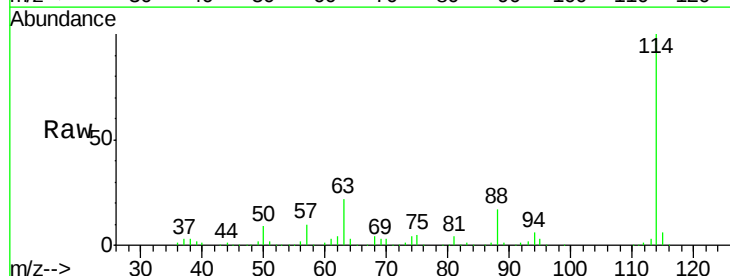
Tgt Ion: 114 Resp: 298500

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.6

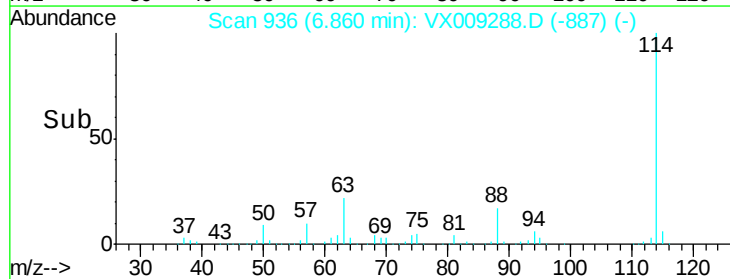
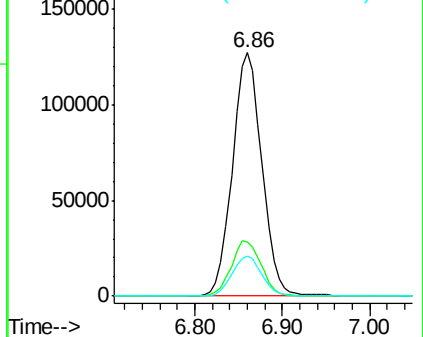
88 16.5 0.0 33.2

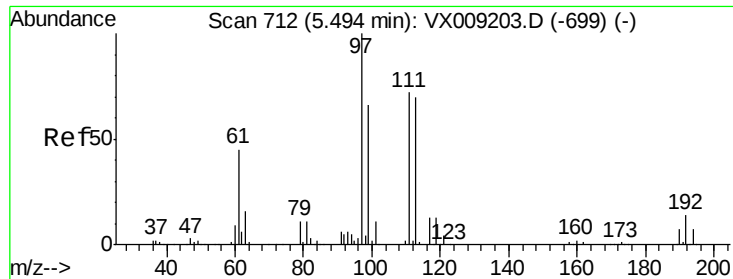


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

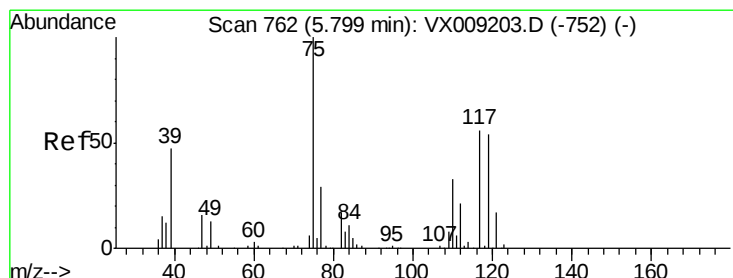
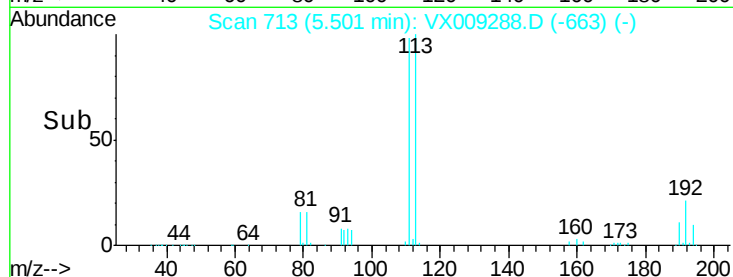
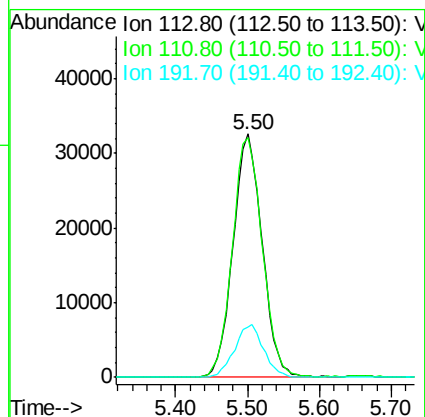
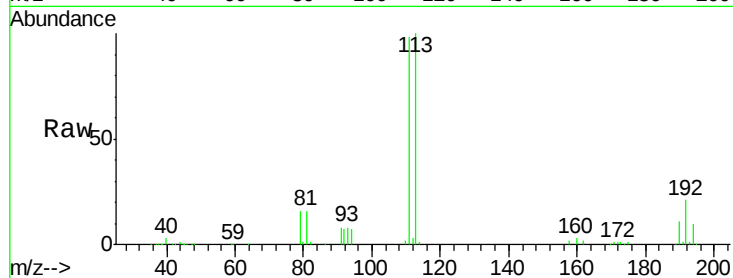




#35
 Dibromofluoromethane
 Concen: 48.820 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009288.D
 Acq: 02 May 2019 21:09

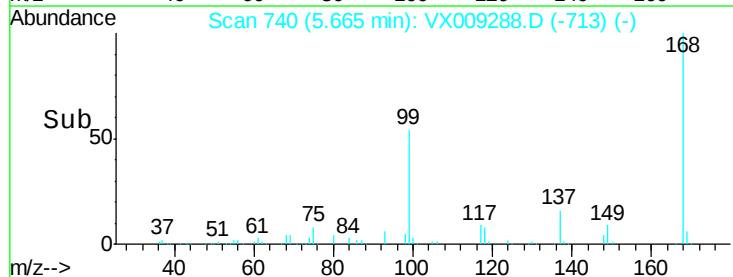
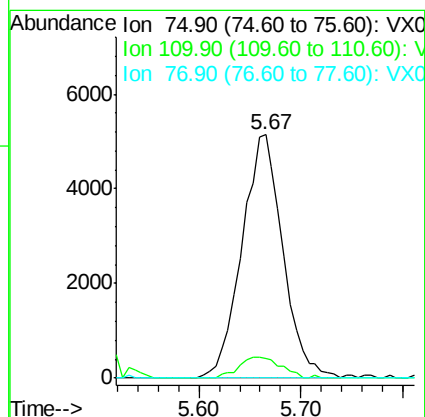
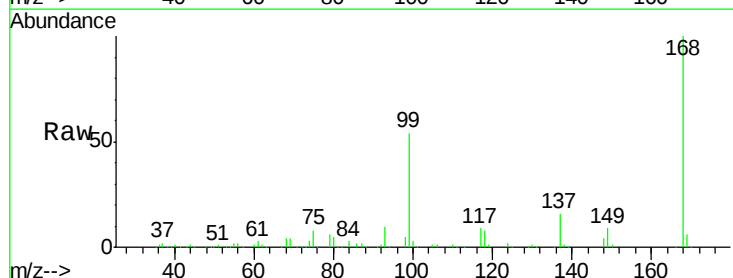
Instrument :
 MSVOA_X
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 ST008MW172-190429

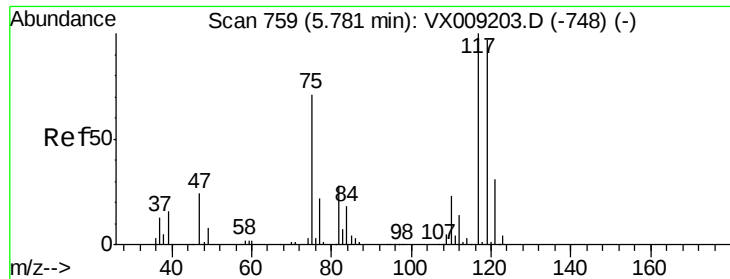
Tot Ion:113 Resp: 91610
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.8 124.2
 192 21.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.181 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009288.D
 Acq: 02 May 2019 21:09

Tgt Ion: 75 Resp: 14373
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.927 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

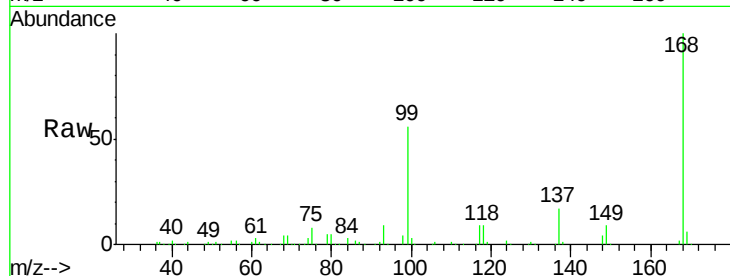
Tot Ion:117 Resp: 17459

Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

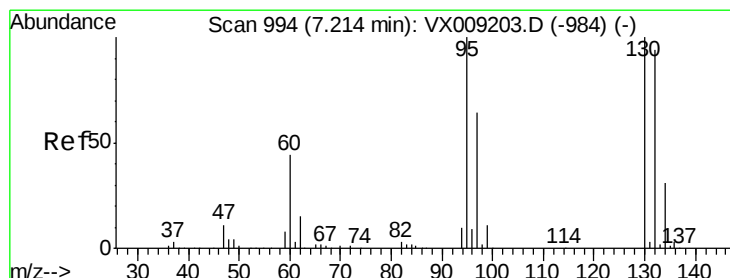
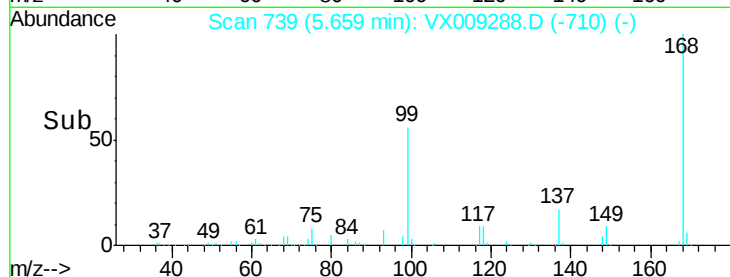
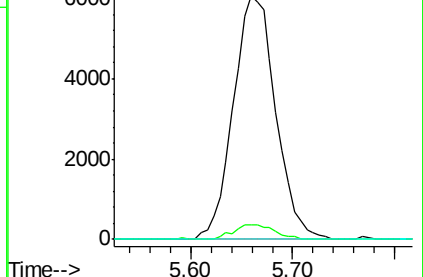
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 2.296 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009288.D

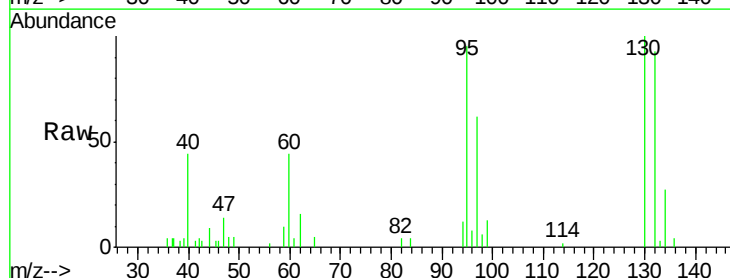
Acq: 02 May 2019 21:09

Tgt Ion:130 Resp: 4766

Ion Ratio Lower Upper

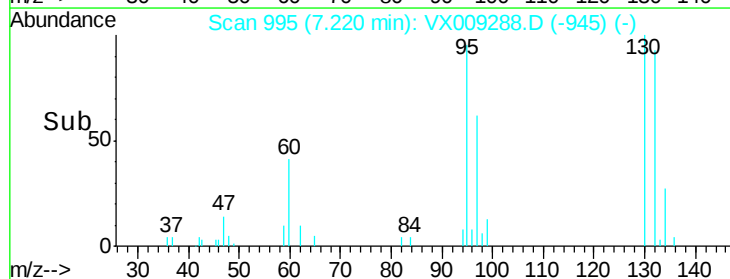
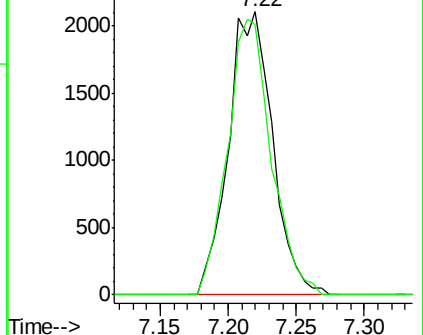
130 100

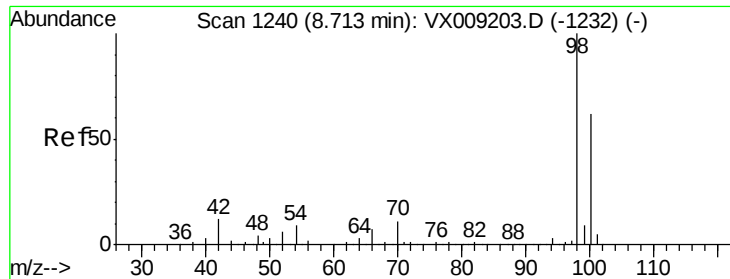
95 95.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

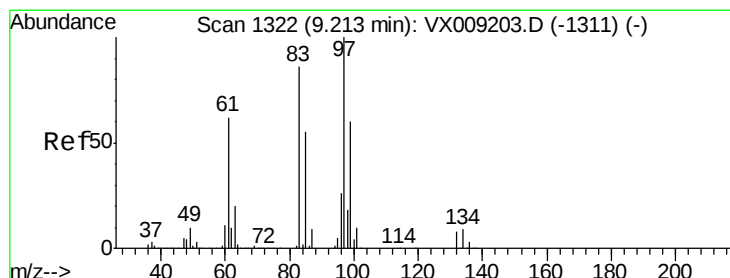
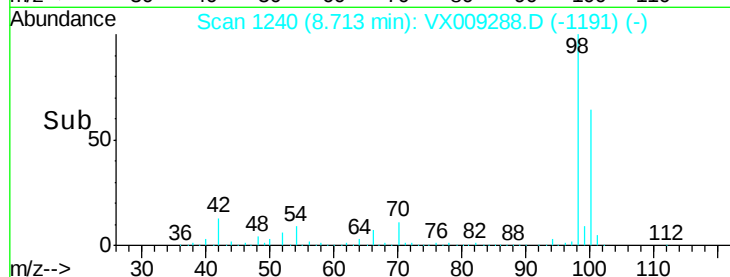
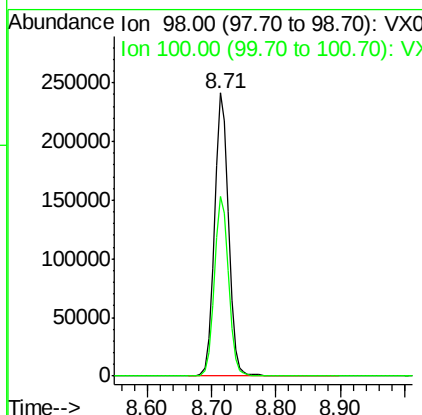
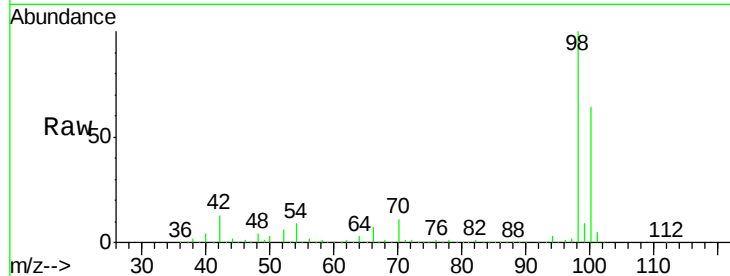




#50
Toluene-d8
Concen: 49.375 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009288.D
Acq: 02 May 2019 21:09

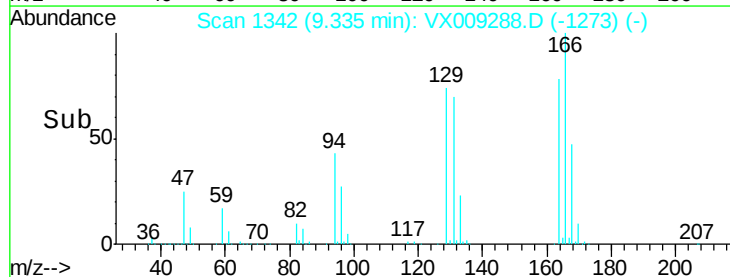
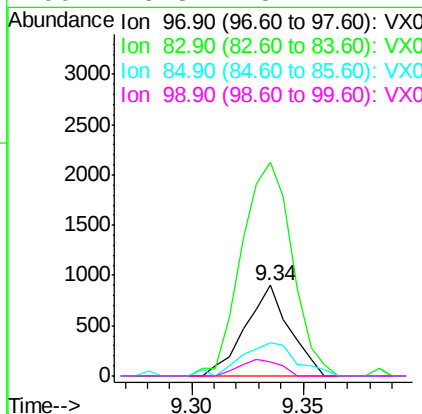
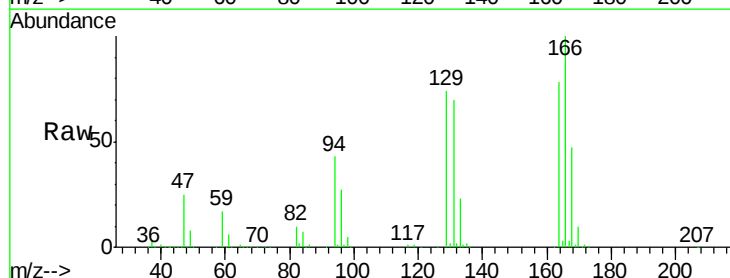
Instrument :
MSVOA_X
ClientSampleId :
ST008MW172-190429

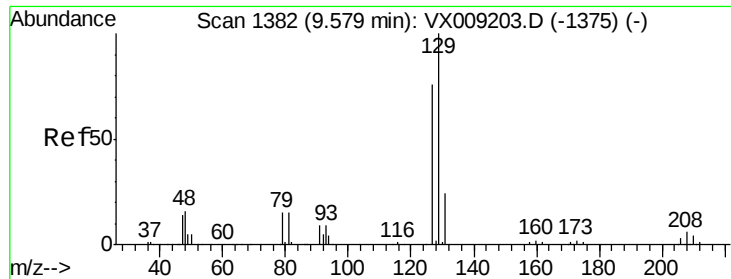
Tot Ion: 98 Resp: 374061
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8



#55
1,1,2-Trichloroethane
Concen: 0.588 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.12 min
Lab File: VX009288.D
Acq: 02 May 2019 21:09

Tgt Ion: 97 Resp: 1251
Ion Ratio Lower Upper
97 100
83 235.3 68.9 103.3#
85 36.9 43.8 65.6#
99 15.8 48.2 72.2#





#60

Dibromochloromethane

Concen: 62.144 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

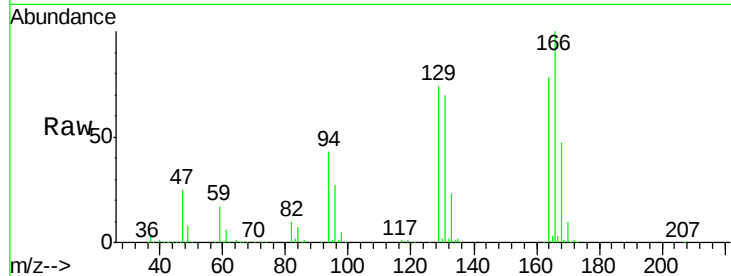
ST008MW172-190429

Tot Ion:129 Resp: 129223

Ion Ratio Lower Upper

129 100

127 0.1 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

100000

80000

60000

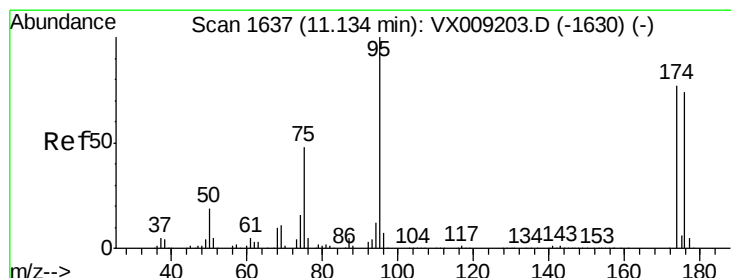
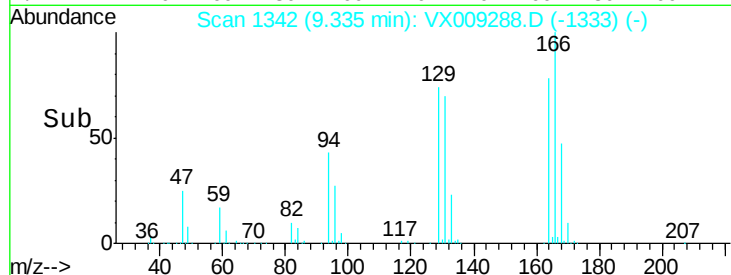
40000

20000

0

Time-->

9.30 9.40 9.50



#62

4-Bromofluorobenzene

Concen: 44.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

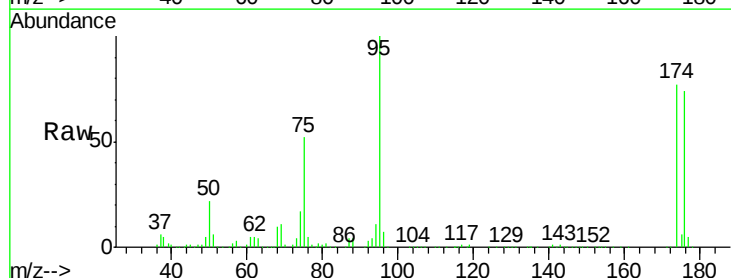
Tgt Ion: 95 Resp: 121591

Ion Ratio Lower Upper

95 100

174 81.8 0.0 161.6

176 79.3 0.0 159.2



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

120000

100000

80000

60000

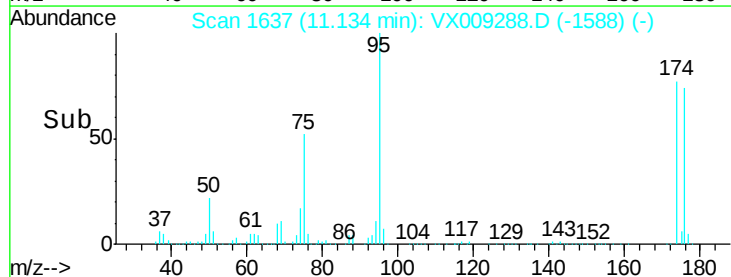
40000

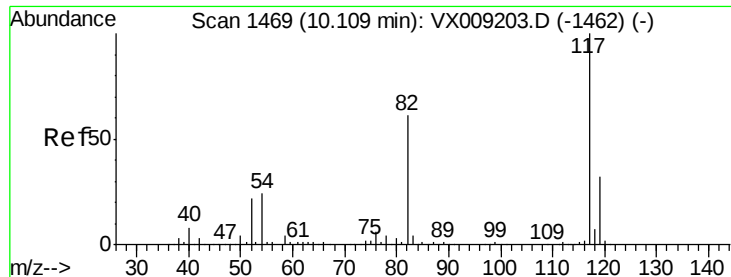
20000

0

Time-->

11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

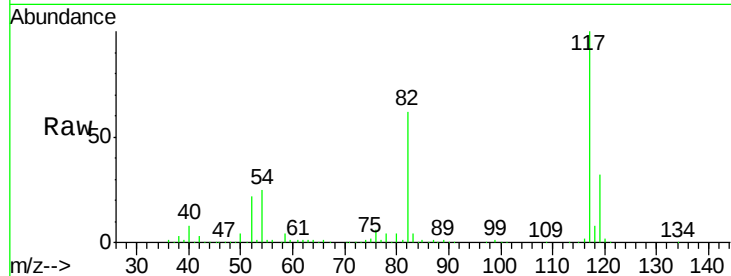
Tot Ion:117 Resp: 258092

Ion Ratio Lower Upper

117 100

82 61.6 48.8 73.2

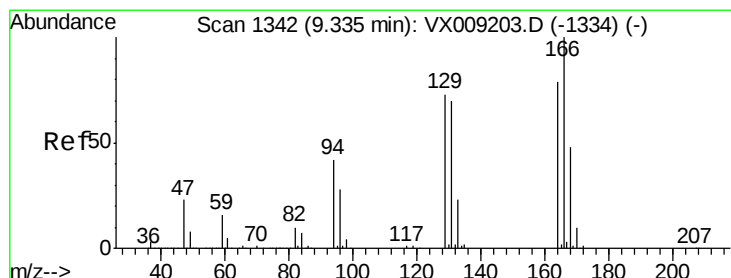
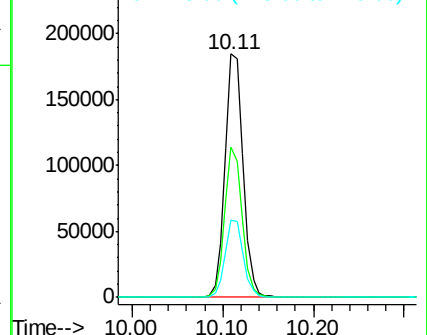
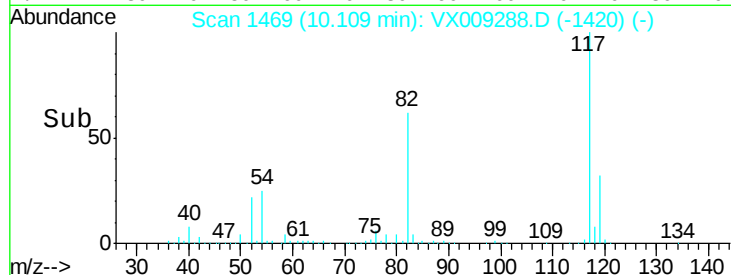
119 31.6 25.8 38.6



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



#64

Tetrachloroethene

Concen: 78.516 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Tgt Ion:164 Resp: 139005

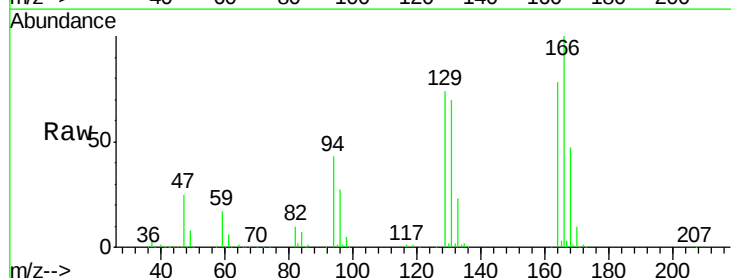
Ion Ratio Lower Upper

164 100

166 128.9 101.2 151.8

129 95.2 74.3 111.5

131 90.8 71.0 106.6

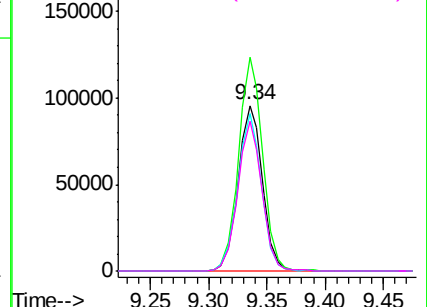
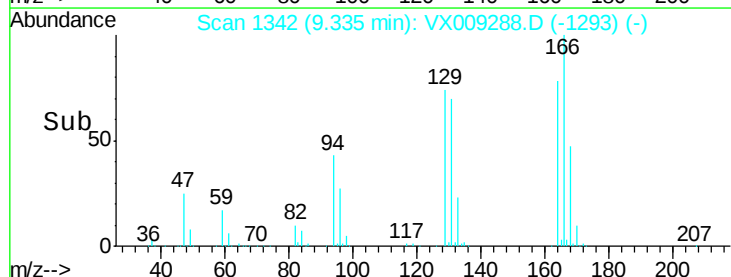


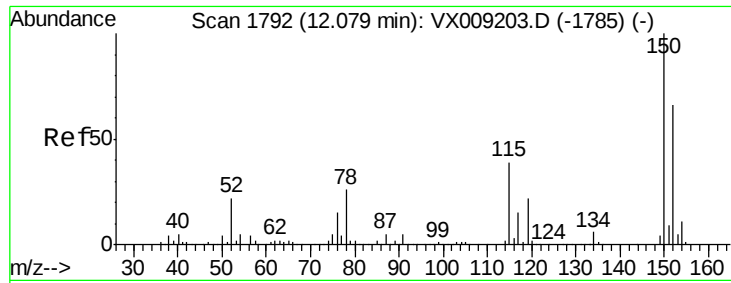
Abundance Ion 163.80 (163.50 to 164.50): V

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

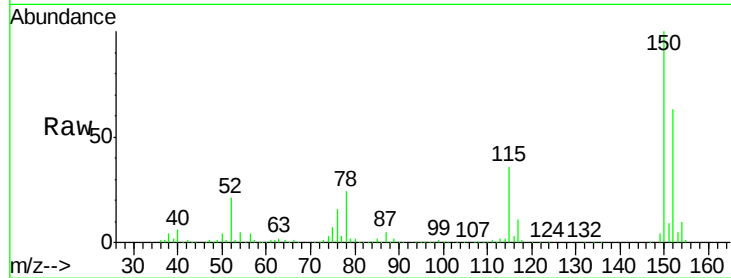
Tot Ion:152 Resp: 107499

Ion Ratio Lower Upper

152 100

115 58.8 41.2 123.6

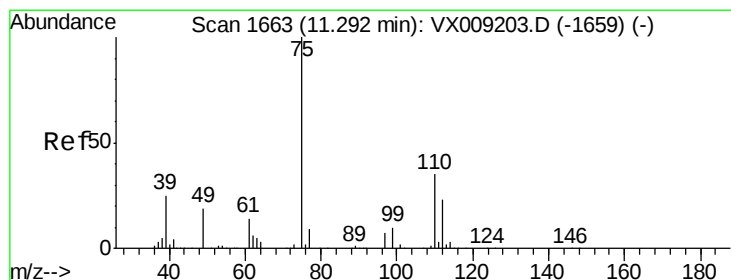
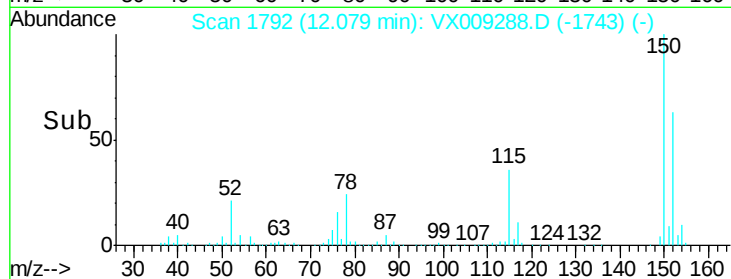
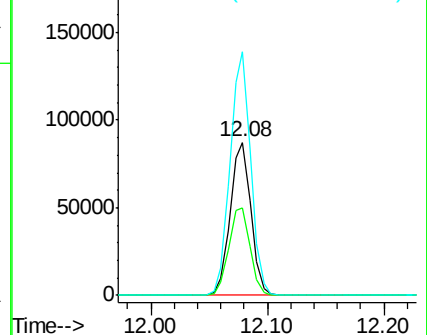
150 157.8 0.0 346.4



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: 24.765 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009288.D

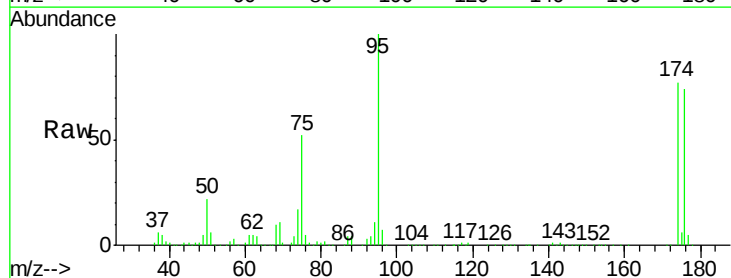
Acq: 02 May 2019 21:09

Tgt Ion: 75 Resp: 61754

Ion Ratio Lower Upper

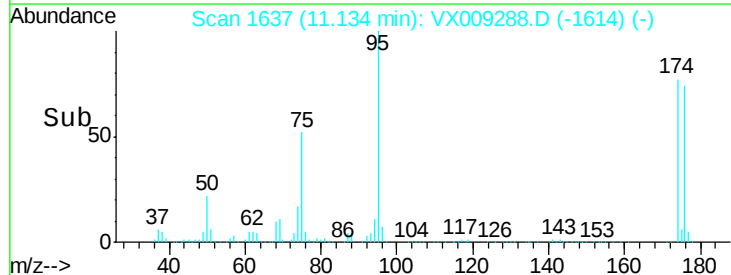
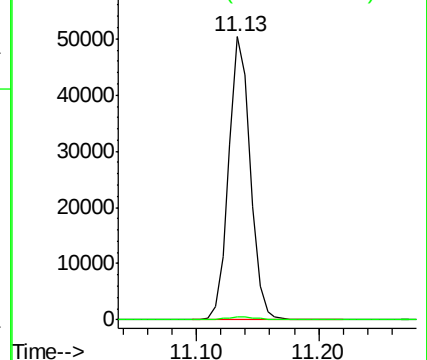
75 100

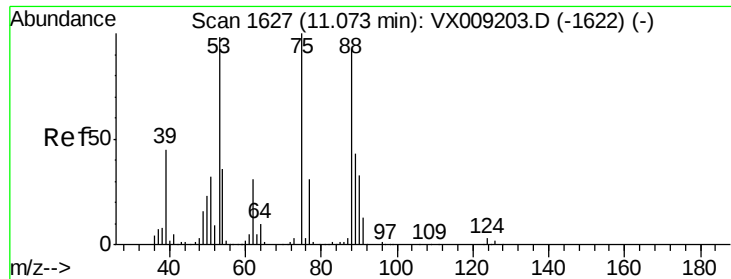
77 1.3 22.1 66.1#



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: 63.365 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009288.D

Acq: 02 May 2019 21:09

Instrument :

MSVOA_X

ClientSampleId :

ST008MW172-190429

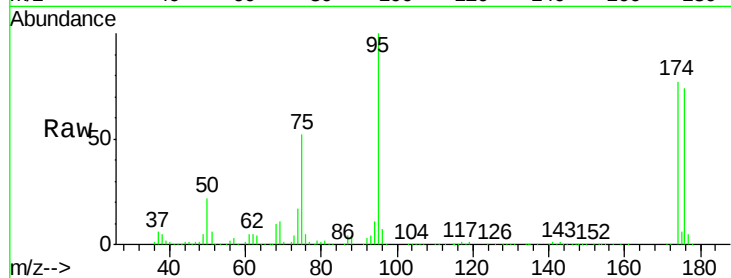
Tot Ion: 75 Resp: 61754

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

