

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040519\
 Data File : VX008698.D
 Acq On : 05 Apr 2019 21:39
 Operator : JC/SP
 Sample : K2295-16 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW025-190404

Quant Time: Apr 06 01:29:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352423	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	308660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130882	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	144836	47.17	ug/l	0.00
Spiked Amount						
			Recovery	=	94.34%	
35) Dibromofluoromethane	5.50	113	106541	47.28	ug/l	0.00
Spiked Amount						
			Recovery	=	94.56%	
50) Toluene-d8	8.71	98	443267	49.41	ug/l	0.00
Spiked Amount						
			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.13	95	150688	47.36	ug/l	0.00
Spiked Amount						
			Recovery	=	94.72%	

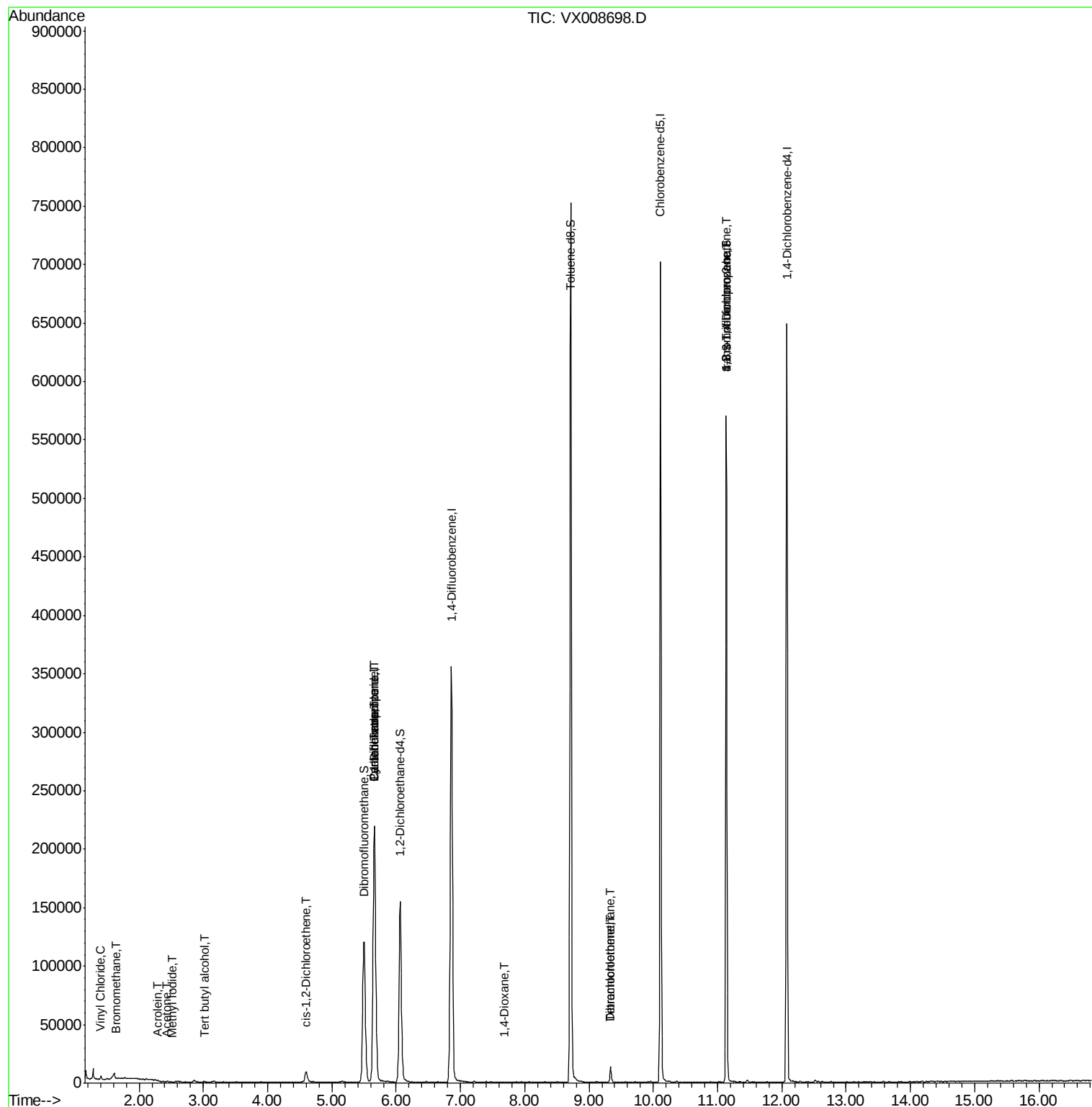
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	236	Below Cal		99
4) Vinyl Chloride	1.40	62	1686	0.515	ug/l	90
5) Bromomethane	1.64	94	357	2.098	ug/l #	61
6) Chloroethane	1.71	64	293	Below Cal	#	66
10) Methyl Iodide	2.51	142	52	4.026	ug/l #	42
11) Tert butyl alcohol	3.02	59	183	0.255	ug/l #	72
13) Acrolein	2.29	56	149	0.418	ug/l	90
16) Acetone	2.44	43	578	0.327	ug/l	90
17) Carbon Disulfide	2.57	76	657	Below Cal	#	75
27) cis-1,2-Dichloroethene	4.60	96	5375	1.776	ug/l	89
28) Bromochloromethane	5.01	49	23	Below Cal	#	22
31) Cyclohexane	5.66	56	4703	0.887	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17236	4.474	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20499	6.429	ug/l #	17
49) 1,4-Dioxane	7.68	88	26	0.341	ug/l #	19
60) Dibromochloromethane	9.34	129	2486	0.971	ug/l #	11
64) Tetrachloroethene	9.34	164	2498	1.092	ug/l	86
76) 1,2,3-Trichloropropane	11.13	75	76375	21.242	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76375	58.555	ug/l #	9

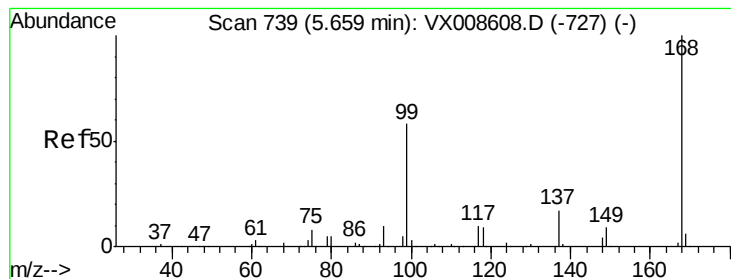
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

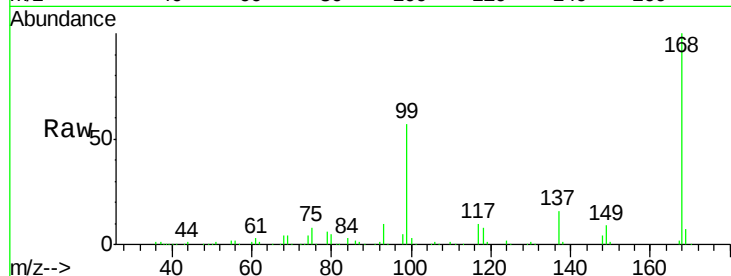
ST008MW025-190404

Tot Ion:168 Resp: 210510

Ion Ratio Lower Upper

168 100

99 56.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

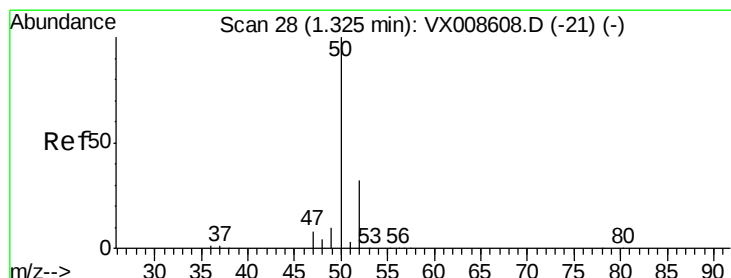
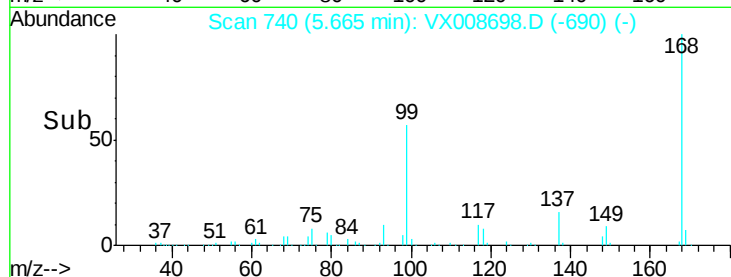
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008698.D

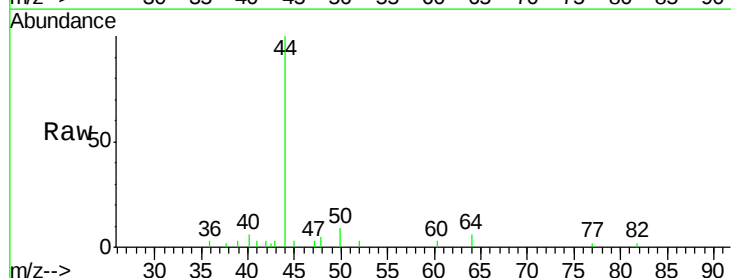
Acq: 05 Apr 2019 21:39

Tgt Ion: 50 Resp: 236

Ion Ratio Lower Upper

50 100

52 31.8 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

150

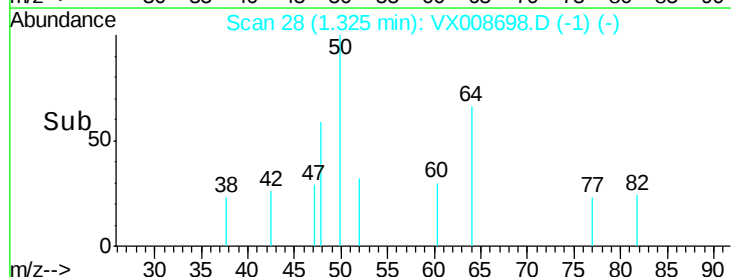
100

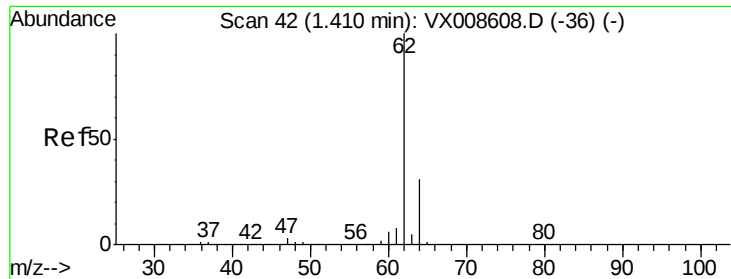
50

0

Time-->

1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 0.515 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

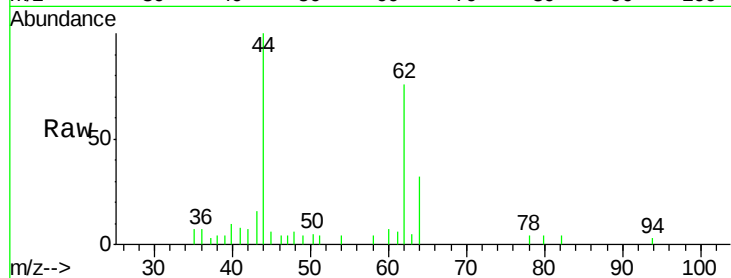
ST008MW025-190404

Tot Ion: 62 Resp: 1686

Ion Ratio Lower Upper

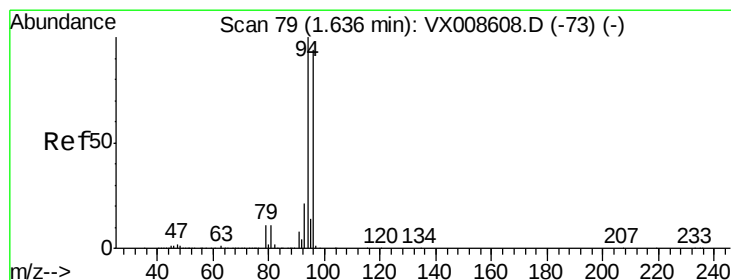
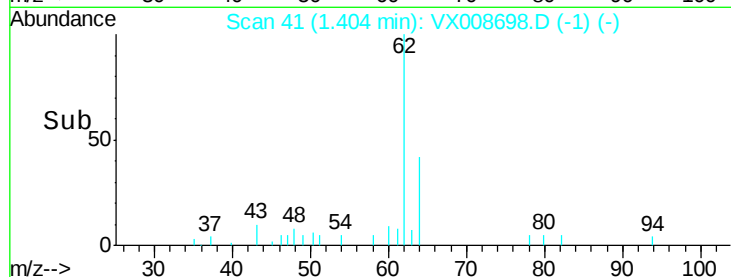
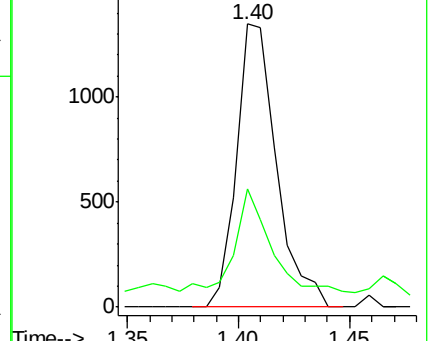
62 100

64 36.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.098 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008698.D

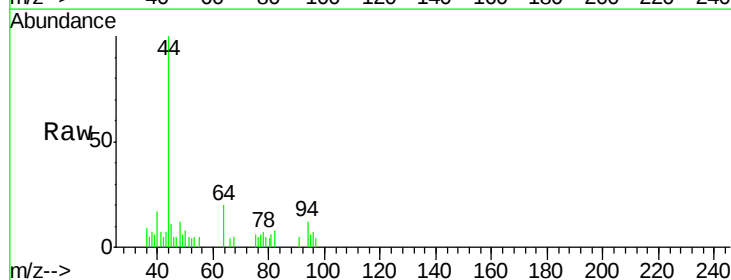
Acq: 05 Apr 2019 21:39

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

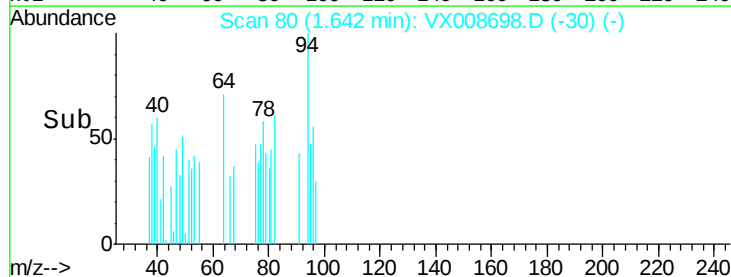
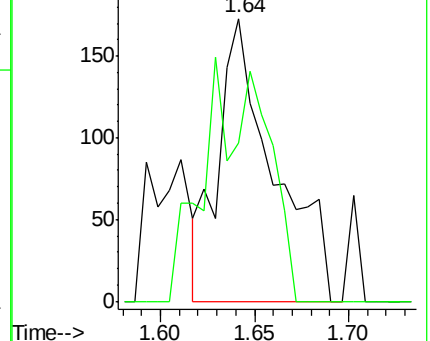
94 100

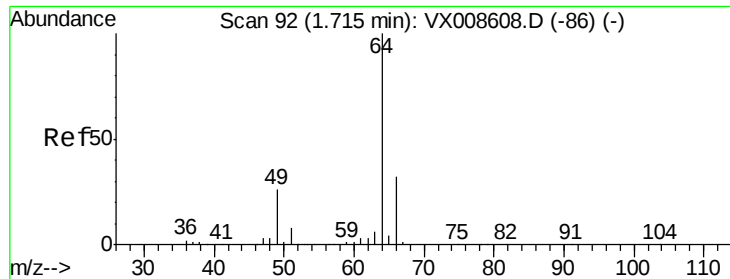
96 56.1 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

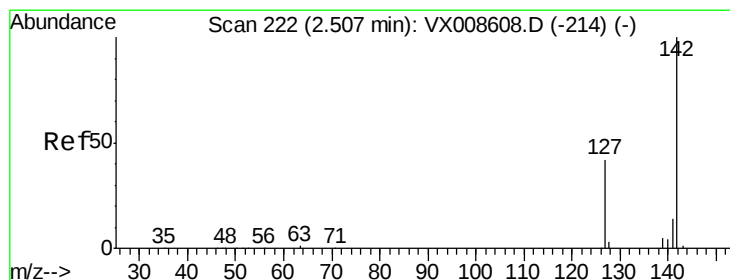
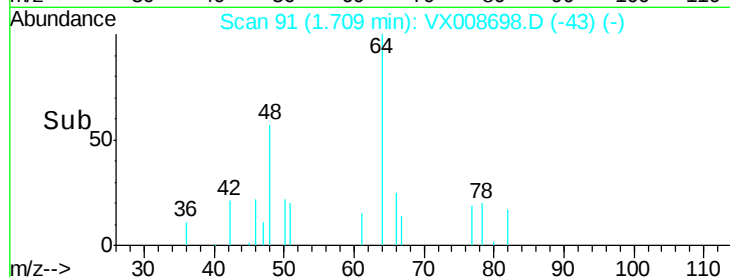
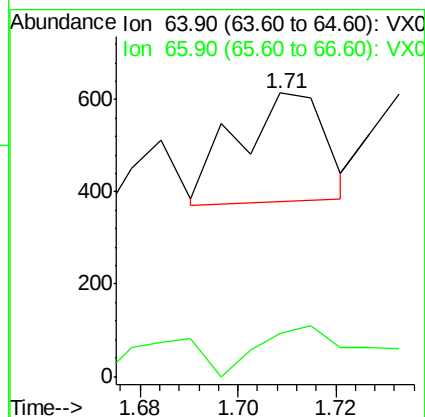
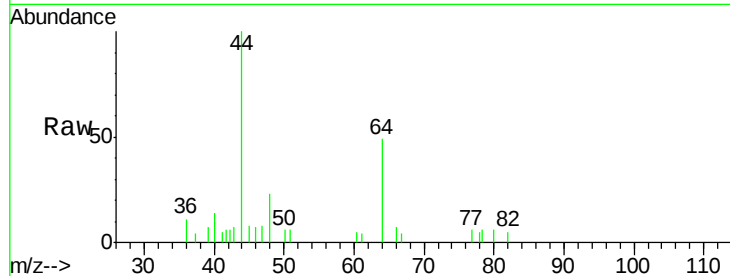
ST008MW025-190404

Tot Ion: 64 Resp: 293

Ion Ratio Lower Upper

64 100

66 13.1 25.4 38.0#



#10

Methyl Iodide

Concen: 4.026 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

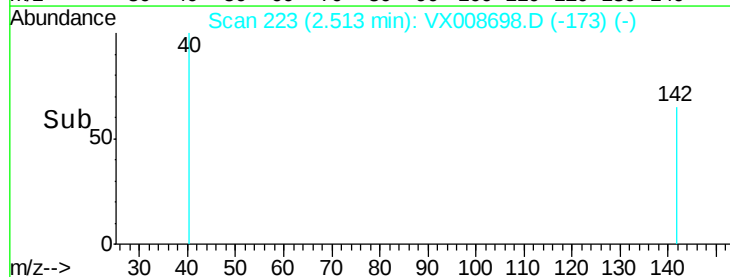
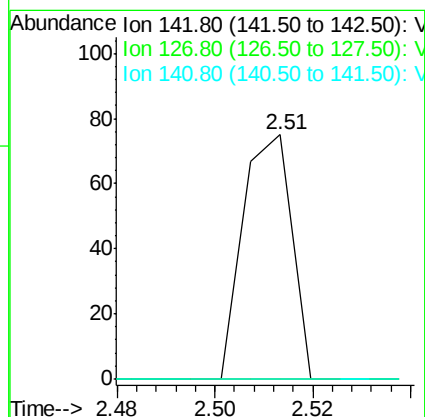
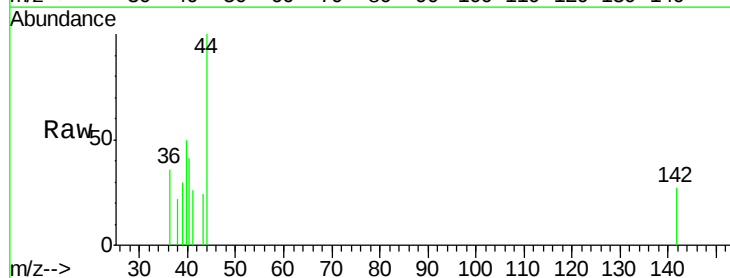
Tgt Ion: 142 Resp: 52

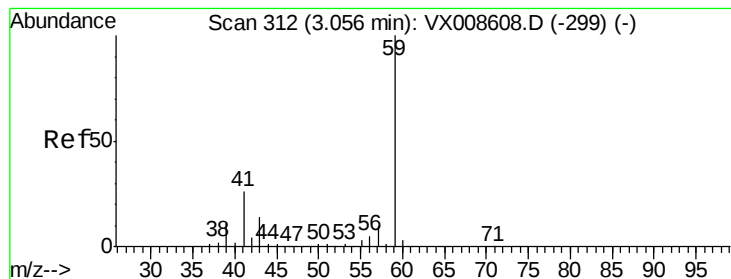
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



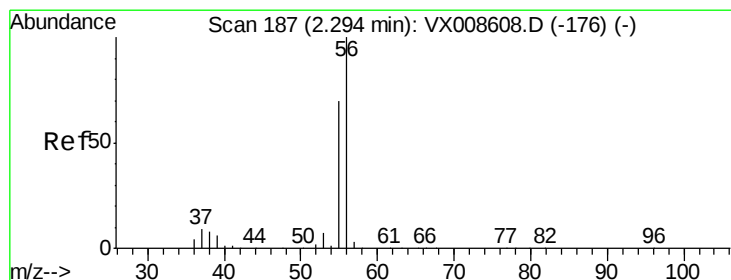
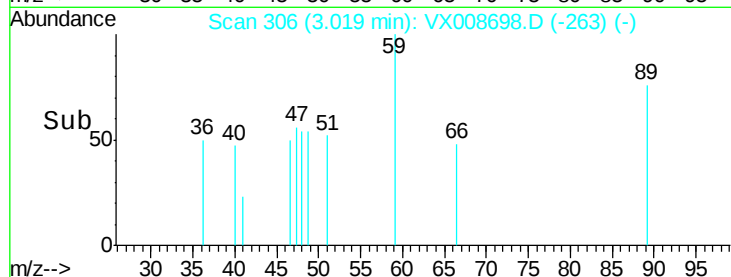
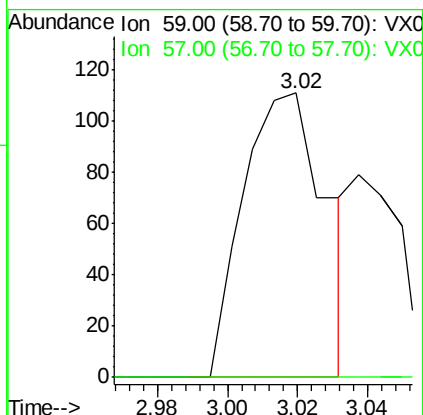
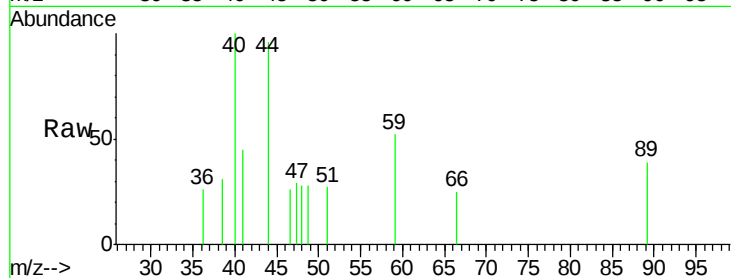


#11

Tert butyl alcohol
 Concen: 0.255 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.04 min
 Lab File: VX008698.D
 Acq: 05 Apr 2019 21:39

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW025-190404

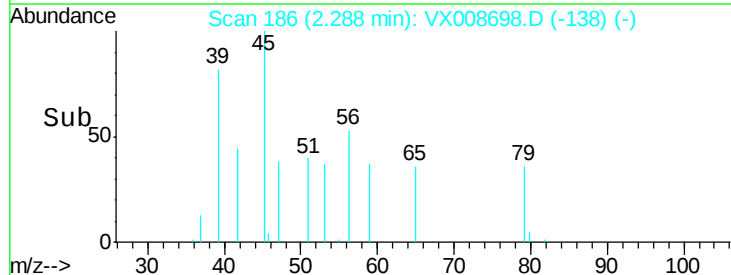
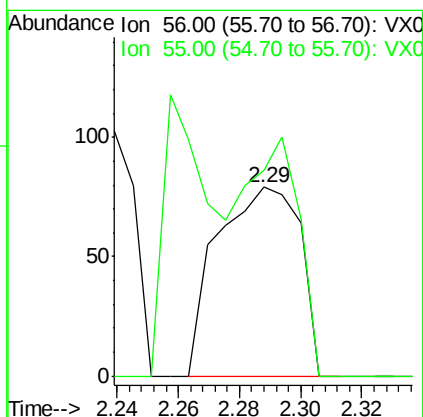
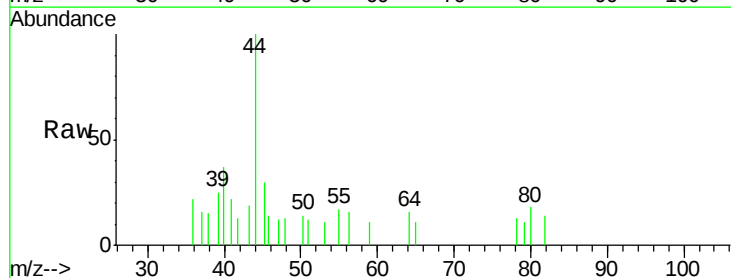
Tot Ion: 59 Resp: 183
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

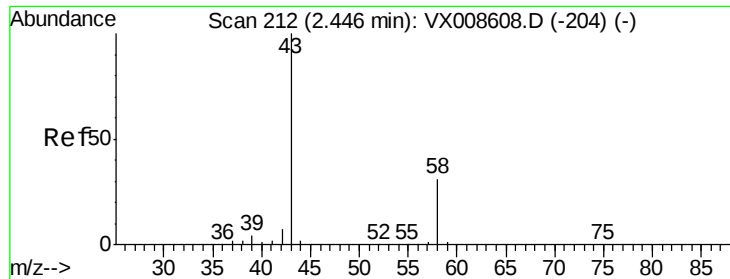


#13

Acrolein
 Concen: 0.418 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX008698.D
 Acq: 05 Apr 2019 21:39

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 81.2 58.0 87.0





#16

Acetone

Concen: 0.327 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

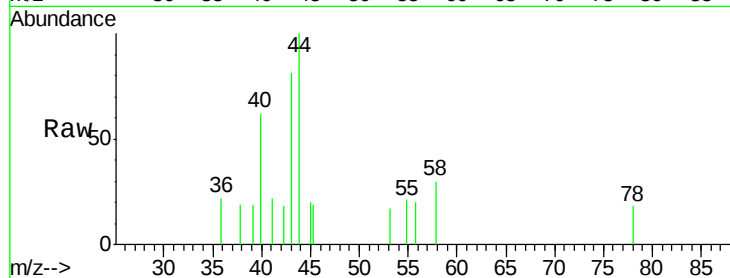
ST008MW025-190404

Tot Ion: 43 Resp: 578

Ion Ratio Lower Upper

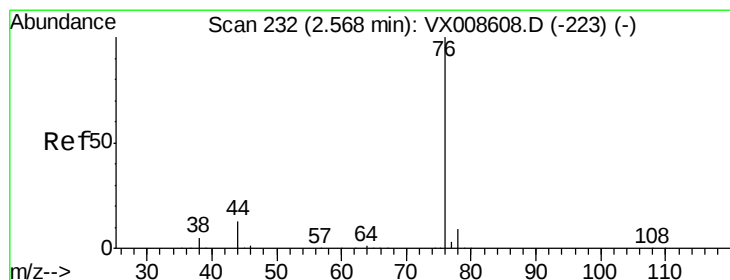
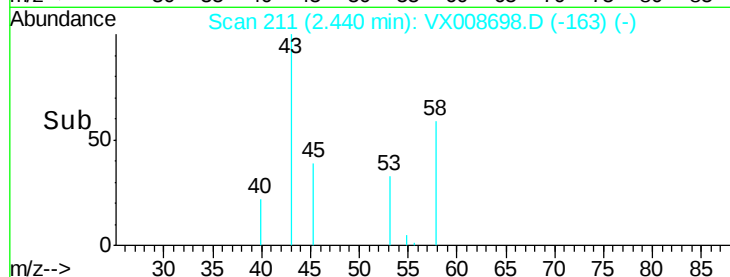
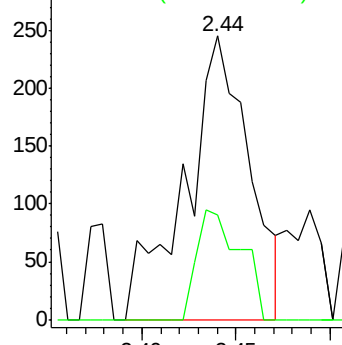
43 100

58 36.7 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008698.D

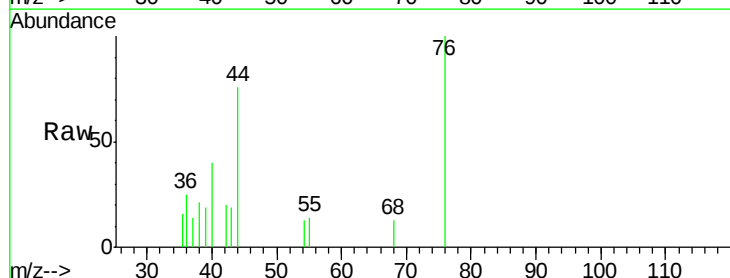
Acq: 05 Apr 2019 21:39

Tgt Ion: 76 Resp: 657

Ion Ratio Lower Upper

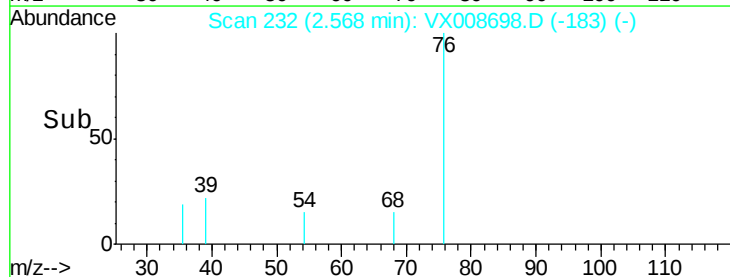
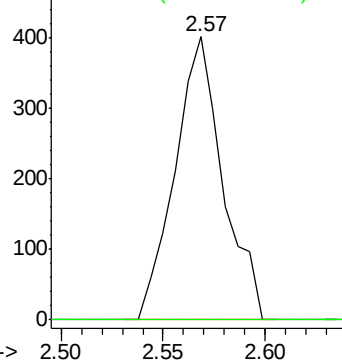
76 100

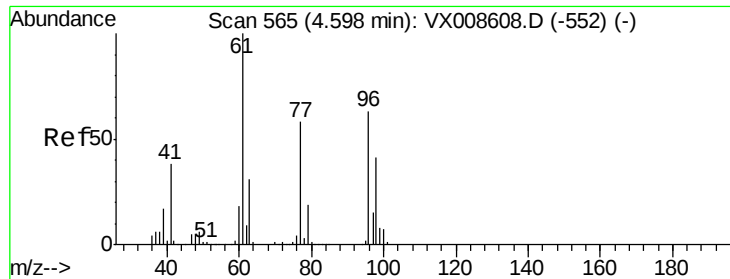
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



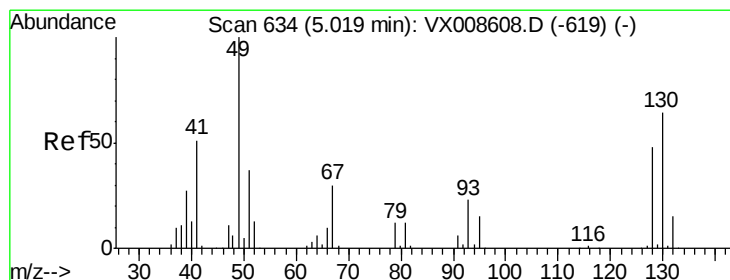
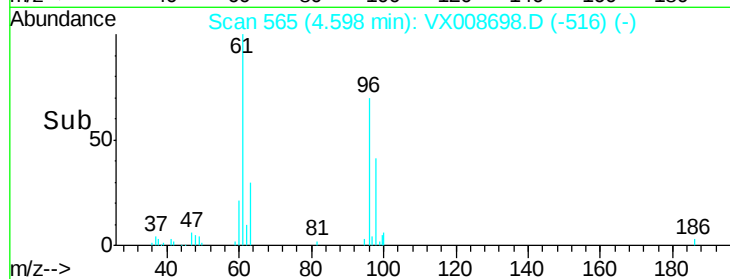
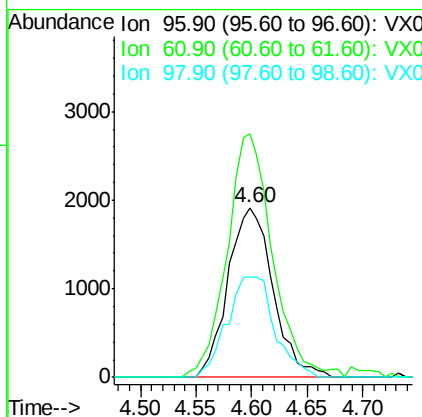
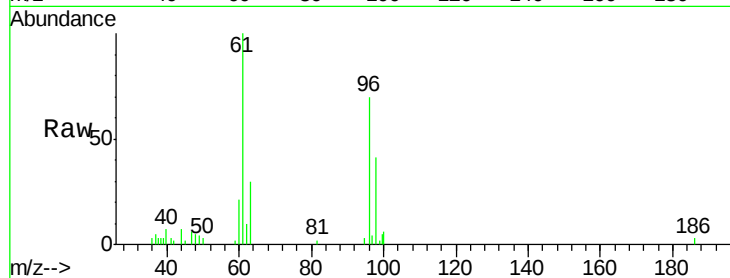


#27

cis-1,2-Dichloroethene
Concen: 1.776 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Instrument :
MSVOA_X
ClientSampleId :
ST008MW025-190404

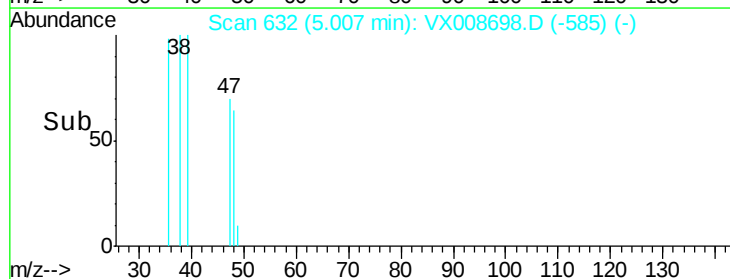
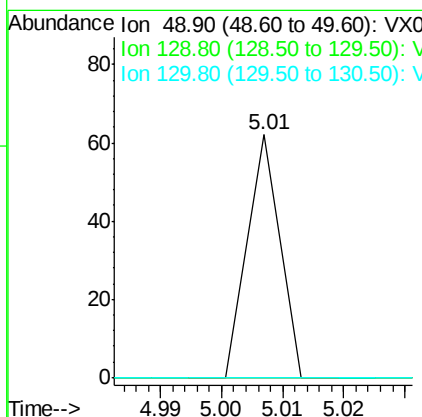
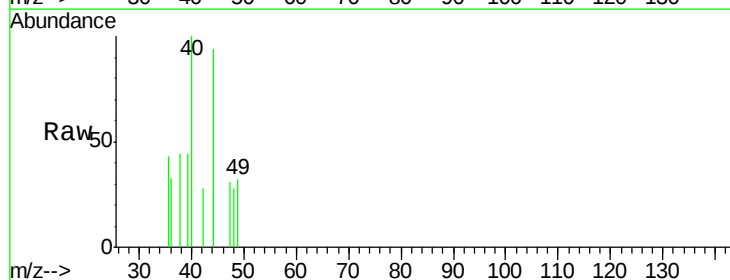
Tot Ion: 96 Resp: 5375
Ion Ratio Lower Upper
96 100
61 145.2 0.0 327.6
98 62.5 0.0 128.6

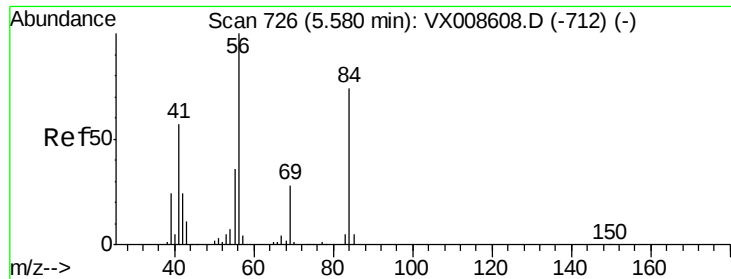


#28

Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Tgt Ion: 49 Resp: 23
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#

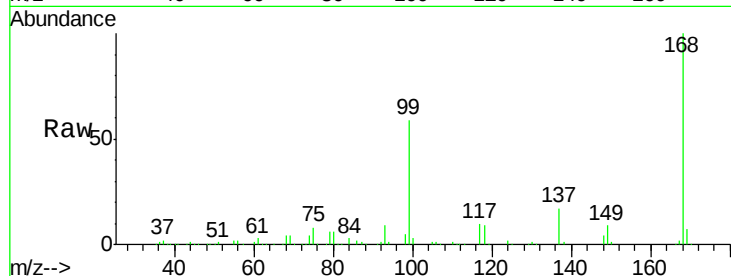




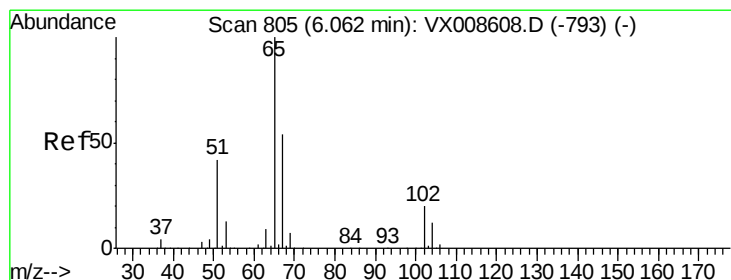
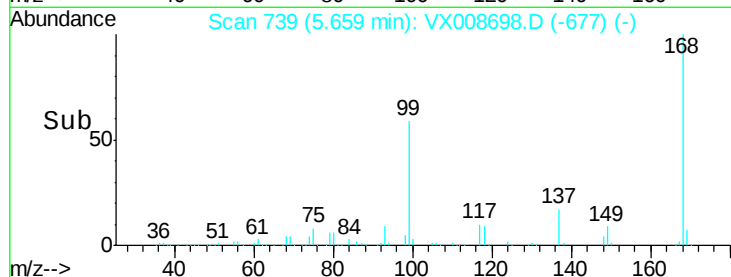
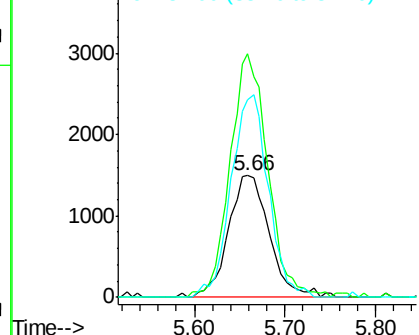
#31
Cyclohexane
Concen: 0.887 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Instrument :
MSVOA_X
ClientSampleId :
ST008MW025-190404

Tot Ion: 56 Resp: 4703
Ion Ratio Lower Upper
56 100
69 196.3 22.6 33.8#
84 162.4 59.3 88.9#

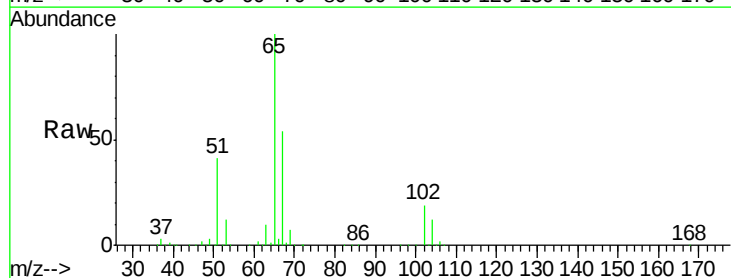


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

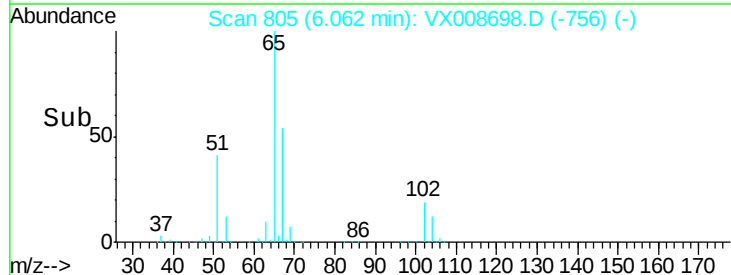
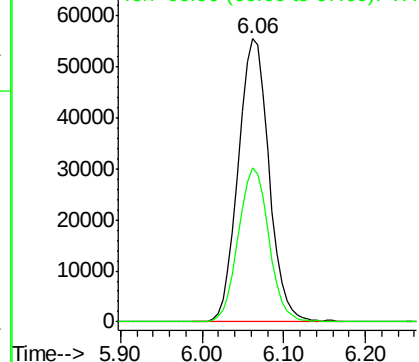


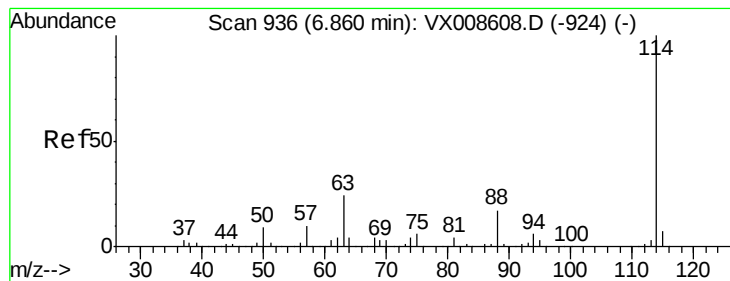
#33
1,2-Dichloroethane-d4
Concen: 47.172 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Tgt Ion: 65 Resp: 144836
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.2



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: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW025-190404

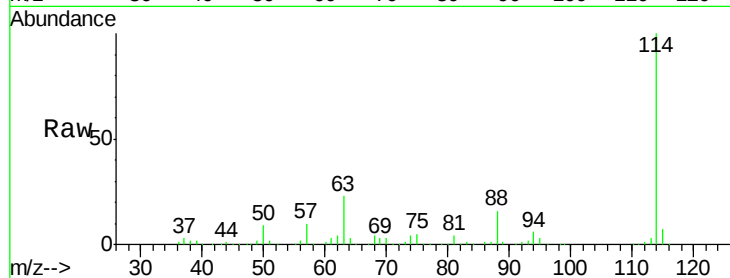
Tot Ion:114 Resp: 352423

Ion Ratio Lower Upper

114 100

63 23.4 0.0 47.2

88 16.2 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

150000

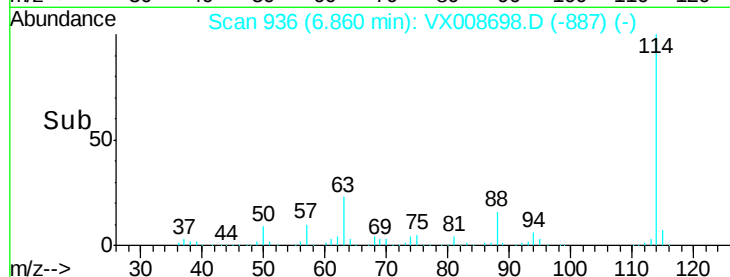
100000

50000

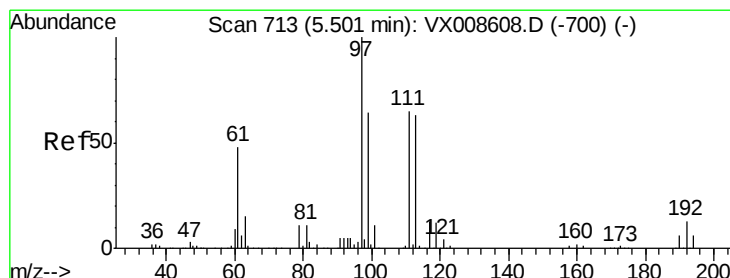
0

6.86

6.70 6.80 6.90 7.00



Time-->



#35

Dibromofluoromethane

Concen: 47.283 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

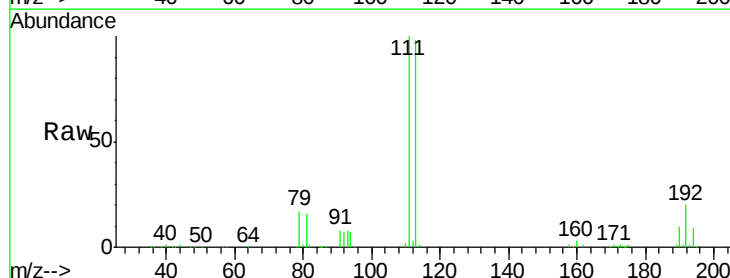
Tgt Ion:113 Resp: 106541

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.2

192 20.7 16.1 24.1



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

50000

40000

30000

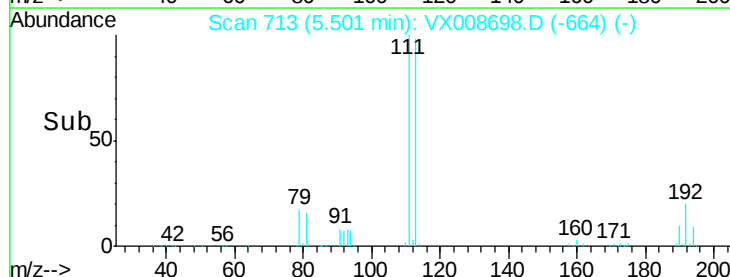
20000

10000

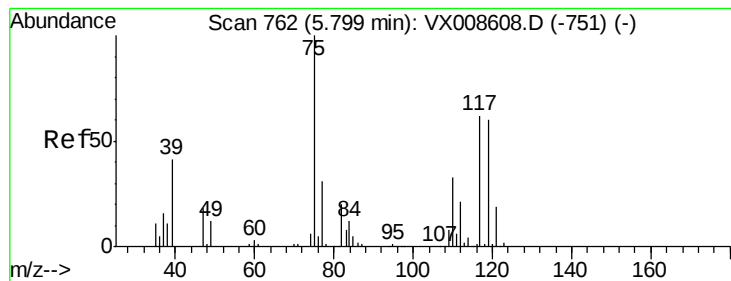
0

5.50

5.40 5.50 5.60



Time-->



#36

1,1-Dichloropropene

Concen: 4.474 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW025-190404

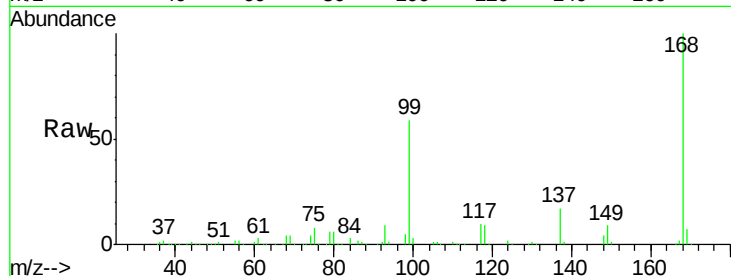
Tot Ion: 75 Resp: 17236

Ion Ratio Lower Upper

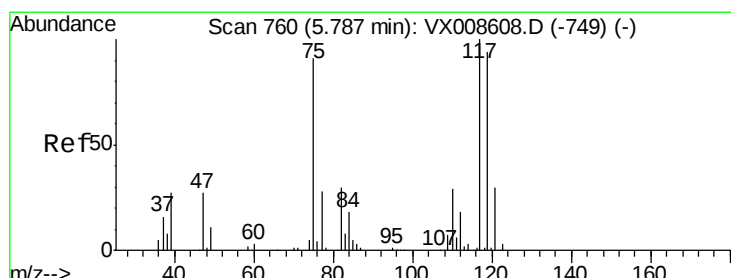
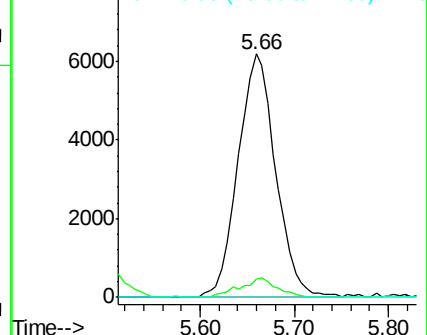
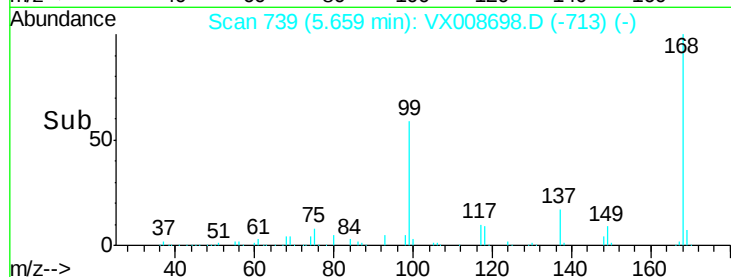
75 100

110 7.8 16.4 49.2#

77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX008698.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.429 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

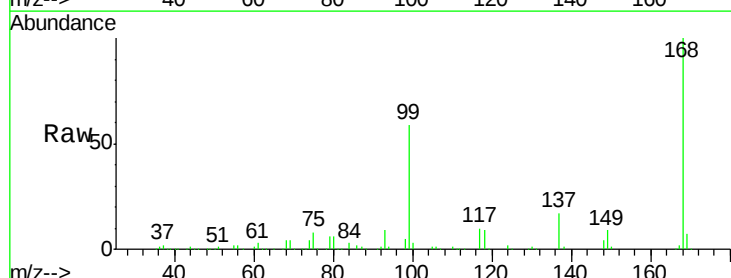
Tgt Ion: 117 Resp: 20499

Ion Ratio Lower Upper

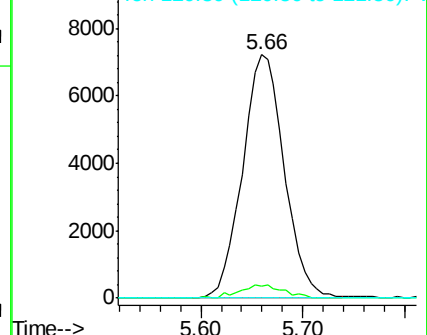
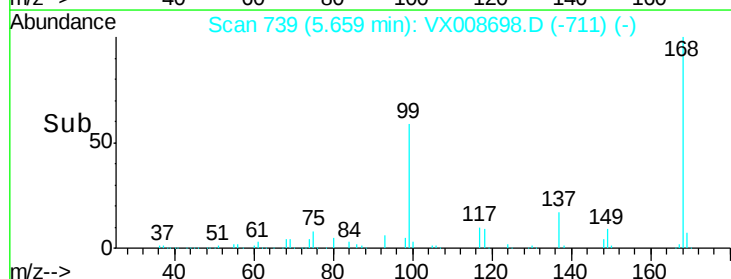
117 100

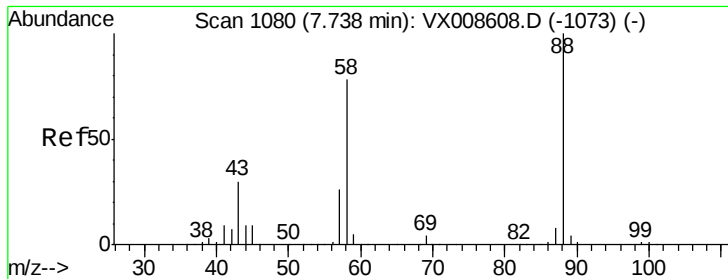
119 5.1 75.0 112.6#

121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): VX008698.D (-711) (-)

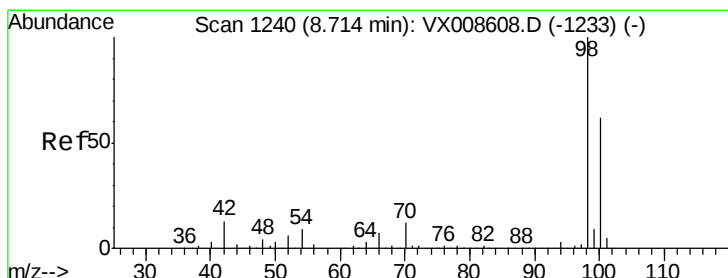
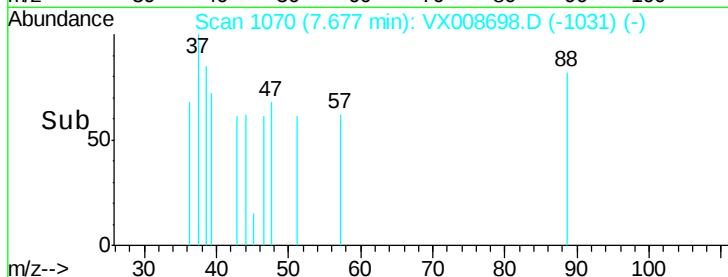
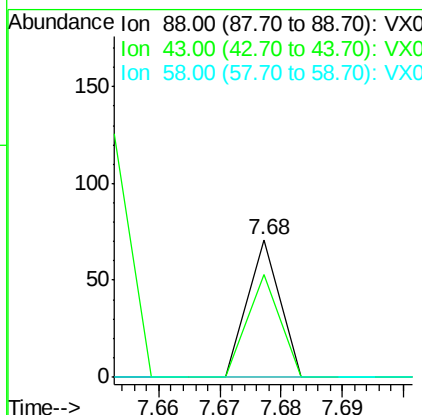
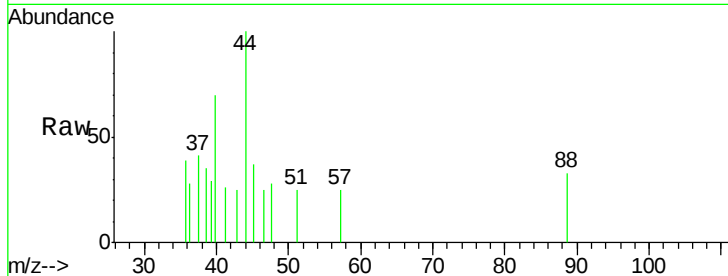




#49
 1,4-Dioxane
 Concen: 0.341 ug/l
 RT: 7.68 min Scan# 1070
 Delta R.T. -0.06 min
 Lab File: VX008698.D
 Acq: 05 Apr 2019 21:39

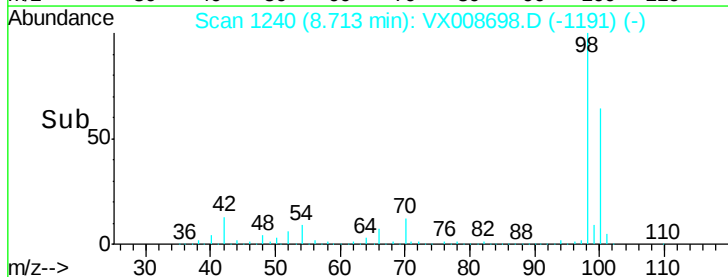
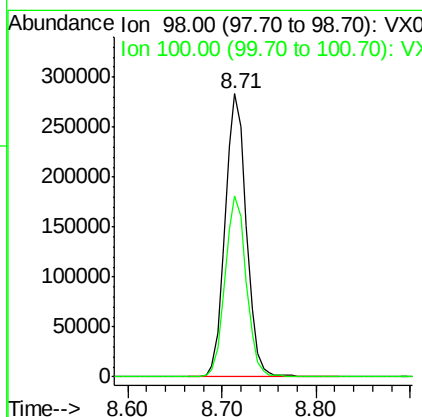
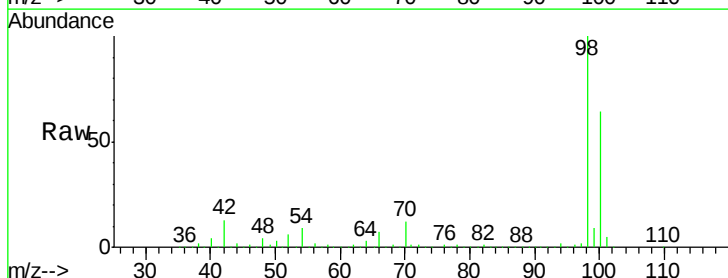
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW025-190404

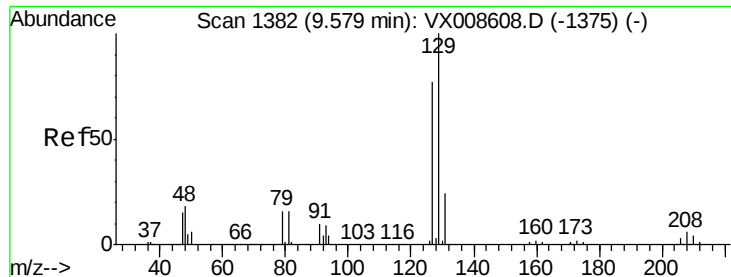
Tot Ion: 88 Resp: 26
 Ion Ratio Lower Upper
 88 100
 43 73.1 28.6 43.0#
 58 0.0 62.2 93.2#



#50
 Toluene-d8
 Concen: 49.406 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008698.D
 Acq: 05 Apr 2019 21:39

Tgt Ion: 98 Resp: 443267
 Ion Ratio Lower Upper
 98 100
 100 63.9 51.4 77.0

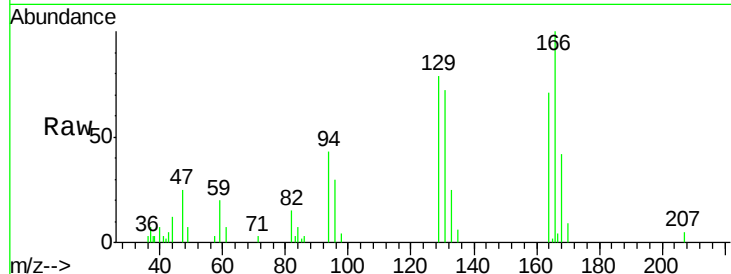




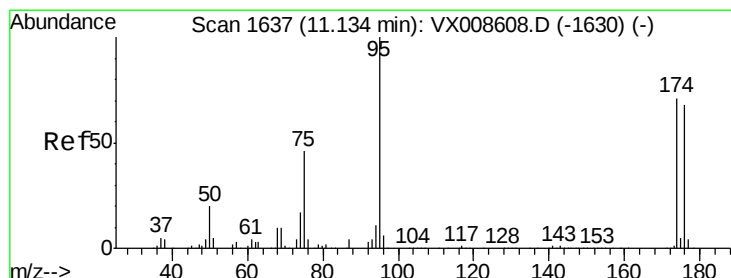
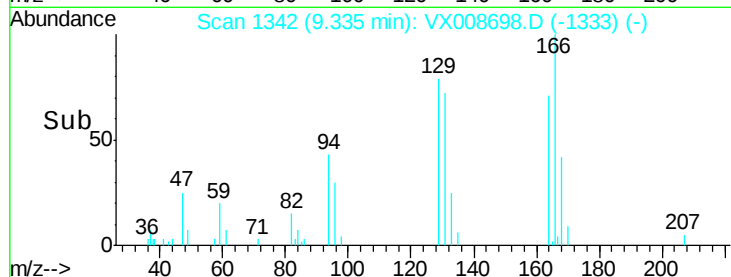
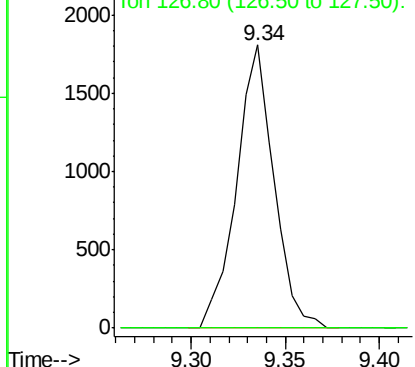
#60
Dibromochloromethane
Concen: 0.971 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Instrument :
MSVOA_X
ClientSampleId :
ST008MW025-190404

Tot Ion:129 Resp: 2486
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

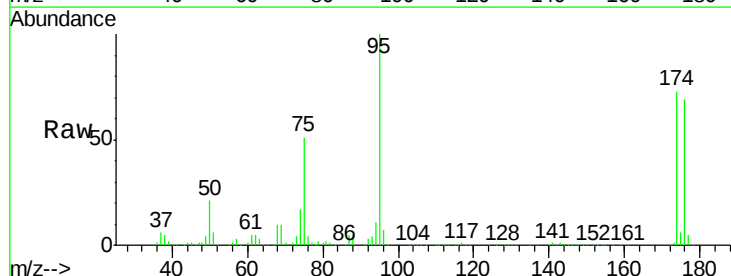


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

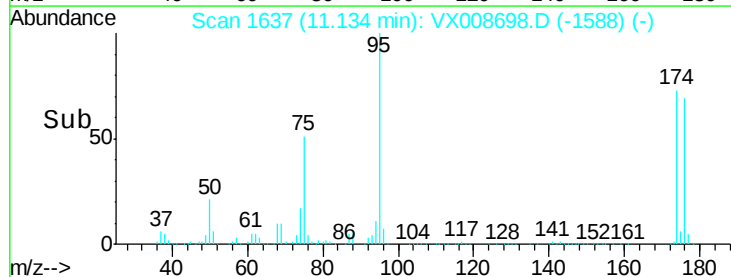
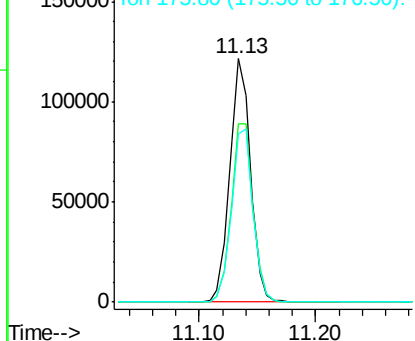


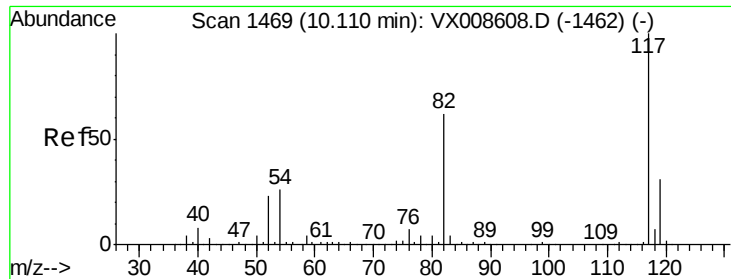
#62
4-Bromofluorobenzene
Concen: 47.363 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Tgt Ion: 95 Resp: 150688
Ion Ratio Lower Upper
95 100
174 77.5 0.0 151.8
176 74.0 0.0 145.8



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

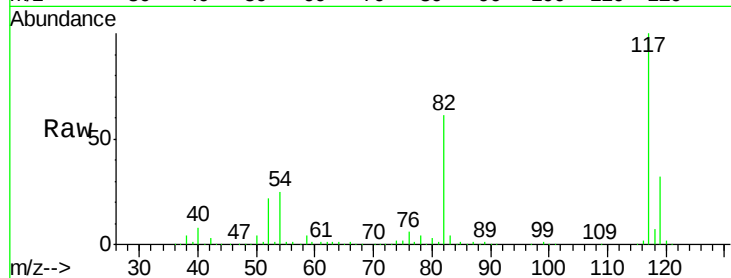




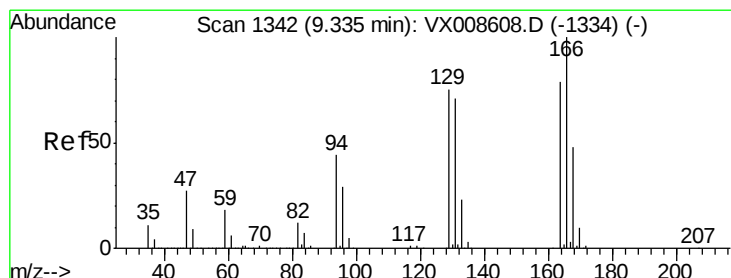
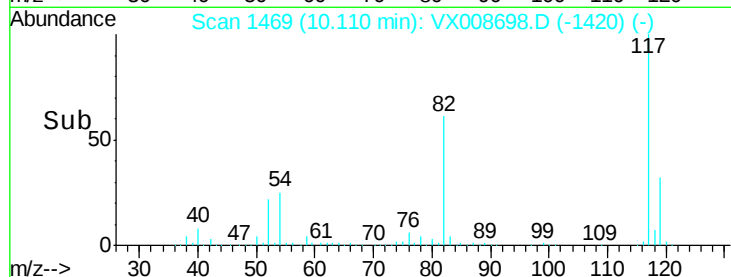
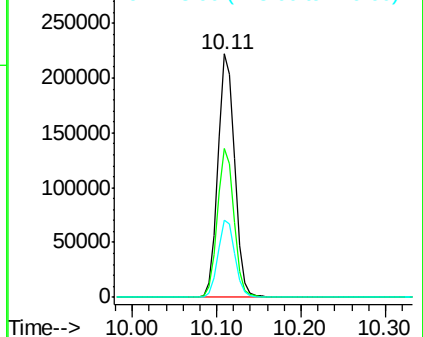
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Instrument :
MSVOA_X
ClientSampleId :
ST008MW025-190404

Tot Ion:117 Resp: 308660
Ion Ratio Lower Upper
117 100
82 60.9 49.6 74.4
119 31.9 25.0 37.4



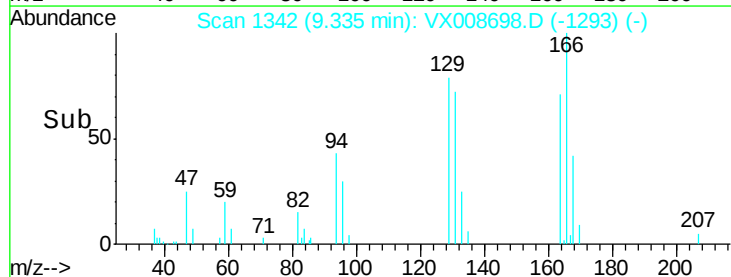
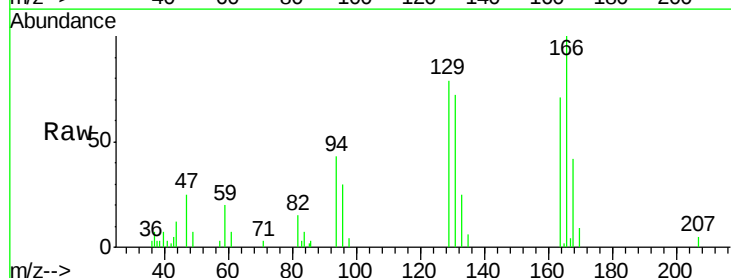
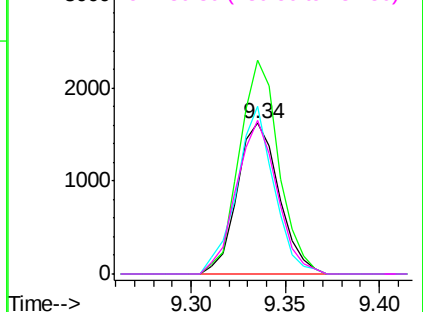
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

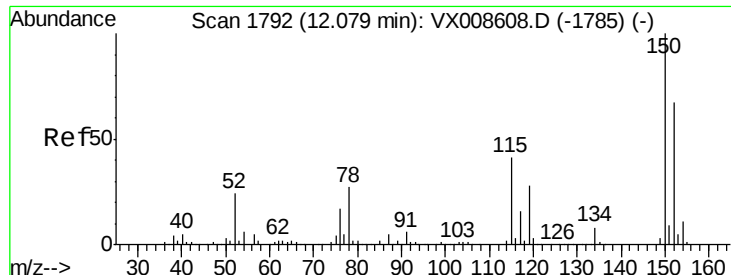


#64
Tetrachloroethene
Concen: 1.092 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008698.D
Acq: 05 Apr 2019 21:39

Tgt Ion:164 Resp: 2498
Ion Ratio Lower Upper
164 100
166 141.6 101.0 151.6
129 111.5 75.8 113.8
131 101.7 71.8 107.8

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: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW025-190404

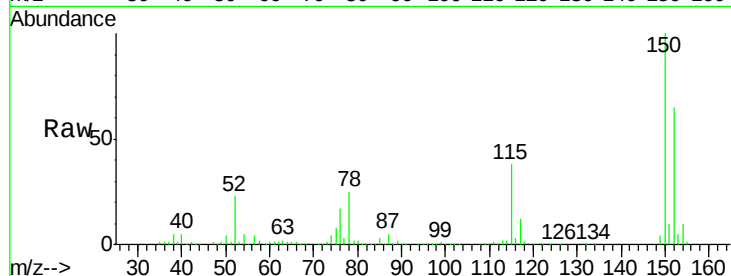
Tot Ion:152 Resp: 130882

Ion Ratio Lower Upper

152 100

115 60.3 43.5 130.5

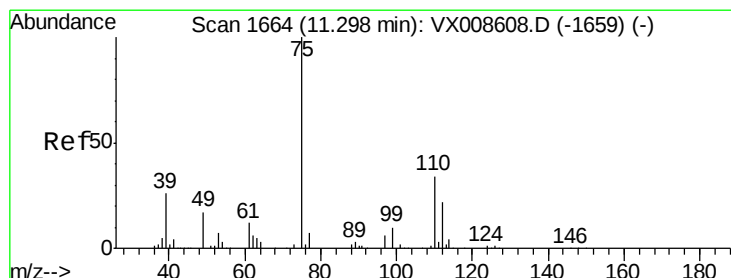
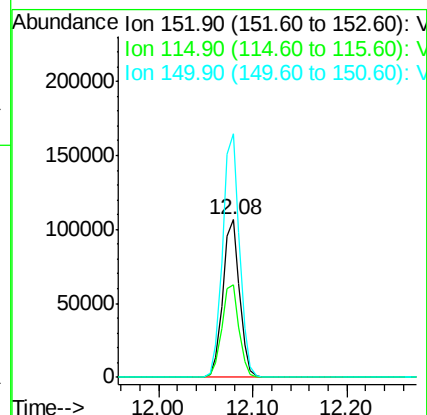
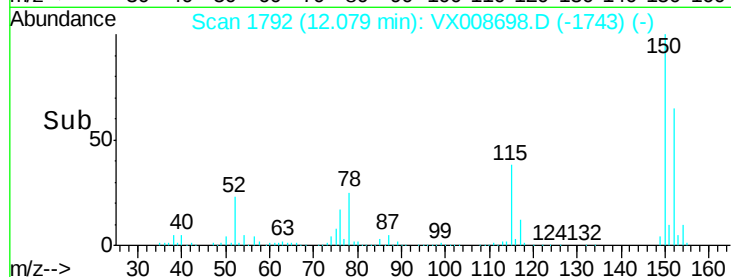
150 156.4 0.0 348.8



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: 21.242 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008698.D

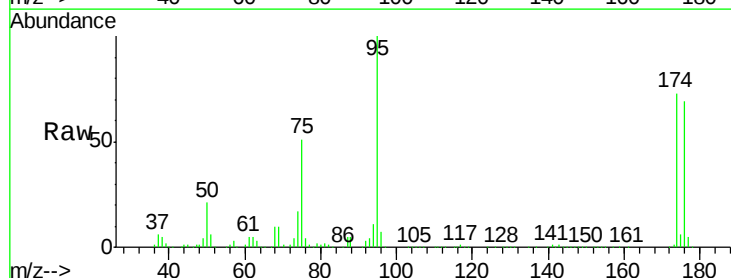
Acq: 05 Apr 2019 21:39

Tgt Ion: 75 Resp: 76375

Ion Ratio Lower Upper

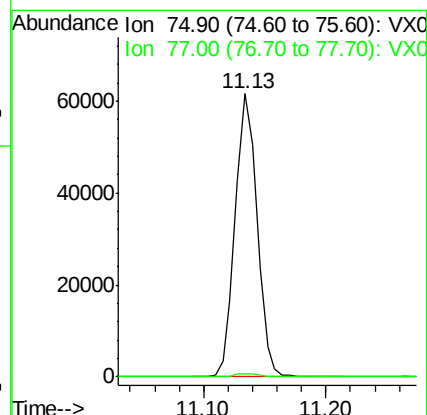
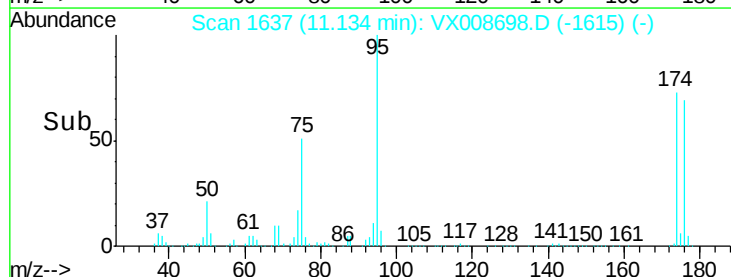
75 100

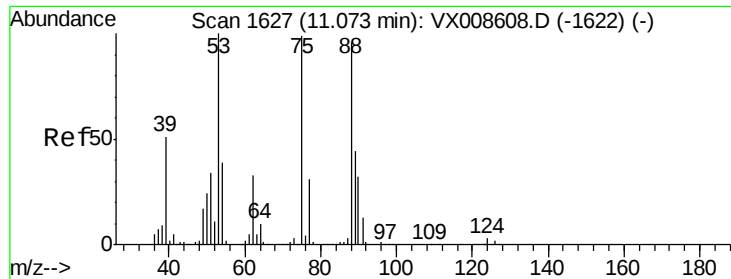
77 1.2 22.3 66.8#



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: 58.555 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008698.D

Acq: 05 Apr 2019 21:39

Instrument :

MSVOA_X

ClientSampleId :

ST008MW025-190404

Tot Ion: 75 Resp: 76375

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#

