

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040919\
 Data File : VX008773.D
 Acq On : 09 Apr 2019 16:12
 Operator : JC/SP
 Sample : K2295-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW214-190403RE

Quant Time: Apr 10 06:37:49 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	192263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	316205	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	103303	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	130522	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	
35) Dibromofluoromethane	5.50	113	96310	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	8.71	98	388181	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
62) 4-Bromofluorobenzene	11.13	95	119958	42.02	ug/l	0.00
Spiked Amount			Recovery	=	84.04%	

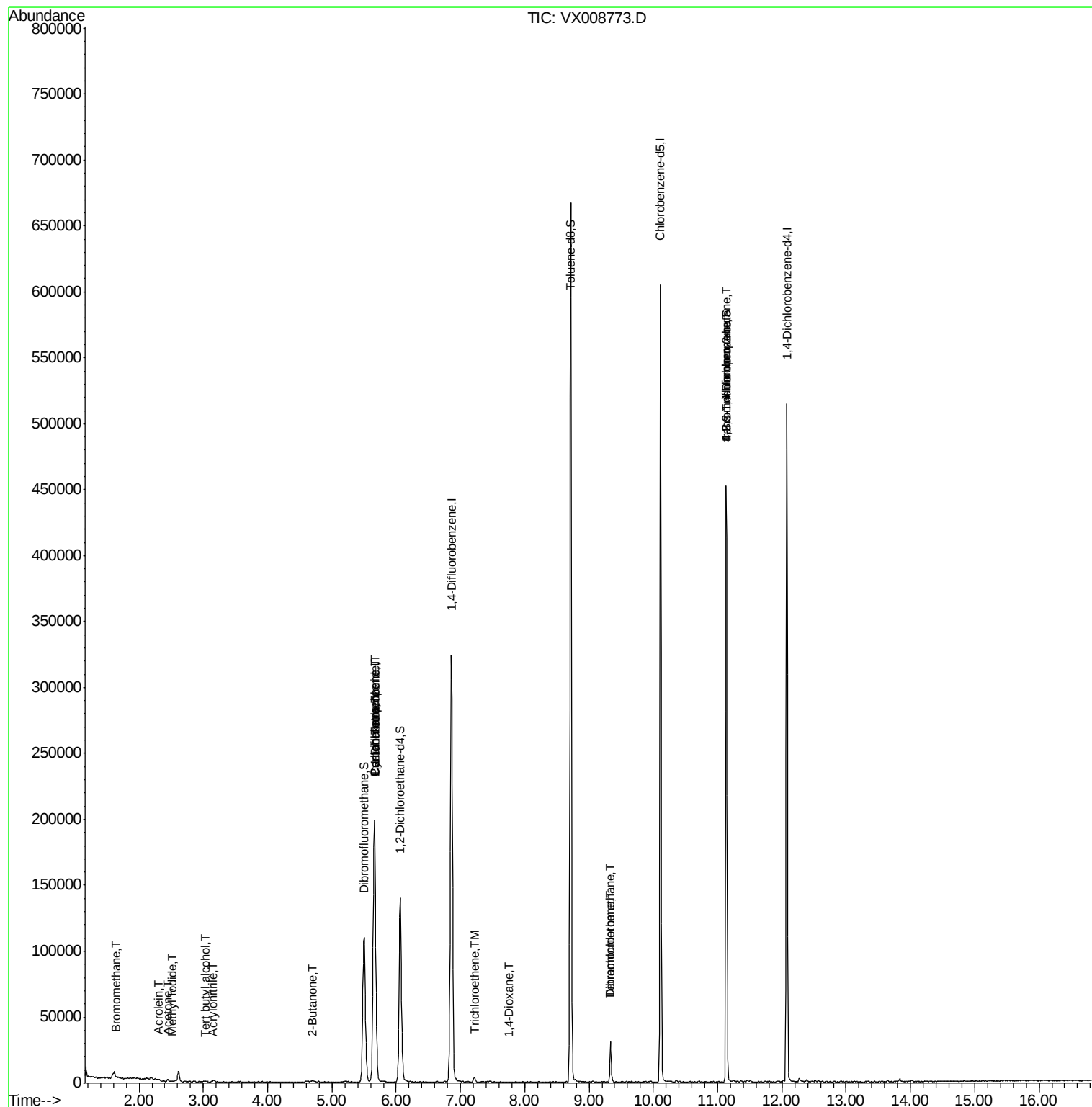
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	501	Below Cal		91
5) Bromomethane	1.64	94	252	2.050 ug/l #		19
6) Chloroethane	1.72	64	112	Below Cal #		52
10) Methyl Iodide	2.52	142	471	4.226 ug/l #		88
11) Tert butyl alcohol	3.03	59	419	0.638 ug/l #		72
13) Acrolein	2.30	56	315	0.968 ug/l #		62
15) Acrylonitrile	3.15	53	585	0.336 ug/l #		90
16) Acetone	2.44	43	1955	1.210 ug/l		94
17) Carbon Disulfide	2.57	76	1381	Below Cal #		88
25) 2-Butanone	4.70	43	602	0.236 ug/l #		53
28) Bromochloromethane	5.05	49	141	Below Cal #		42
31) Cyclohexane	5.66	56	4103	0.847 ug/l #		1
36) 1,1-Dichloropropene	5.66	75	15444	4.468 ug/l #		50
38) Carbon Tetrachloride	5.67	117	18042	6.307 ug/l #		18
44) Trichloroethene	7.22	130	1113	0.464 ug/l		66
49) 1,4-Dioxane	7.76	88	19	0.277 ug/l #		1
60) Dibromochloromethane	9.34	129	5532	2.409 ug/l #		11
64) Tetrachloroethene	9.34	164	5648	2.921 ug/l		93
76) 1,2,3-Trichloropropane	11.13	75	61517	21.677 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	61517	59.755 ug/l #		9

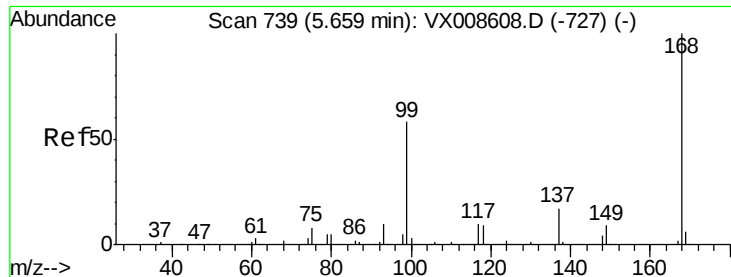
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

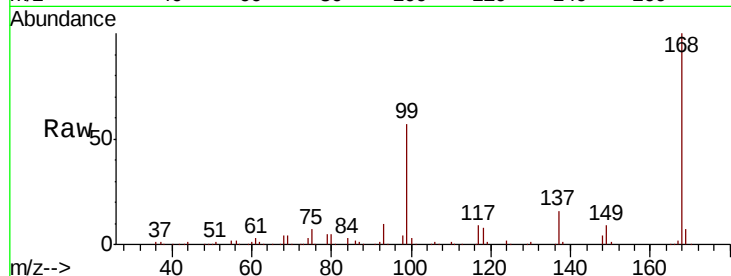
ST008MW214-190403RE

Tot Ion:168 Resp: 192263

Ion Ratio Lower Upper

168 100

99 56.8 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

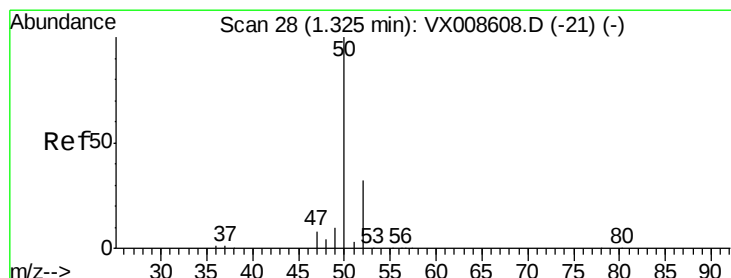
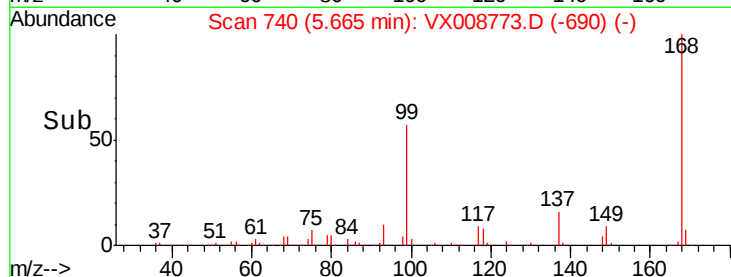
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008773.D

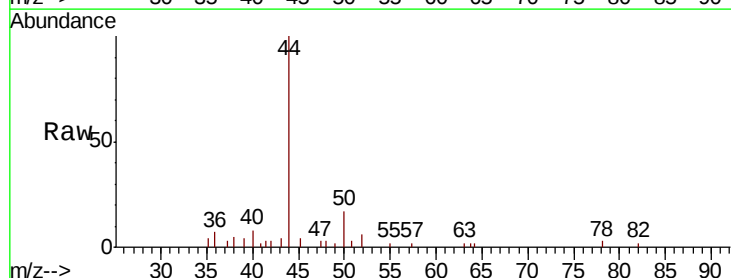
Acq: 09 Apr 2019 16:12

Tgt Ion: 50 Resp: 501

Ion Ratio Lower Upper

50 100

52 37.1 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

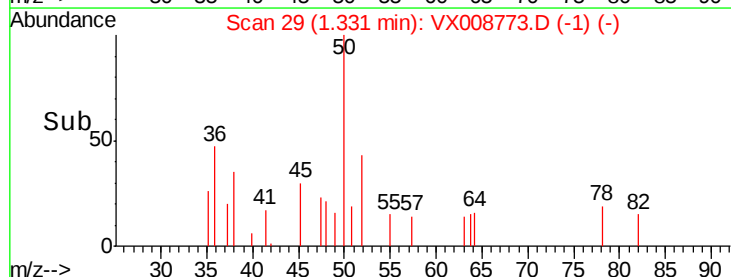
300

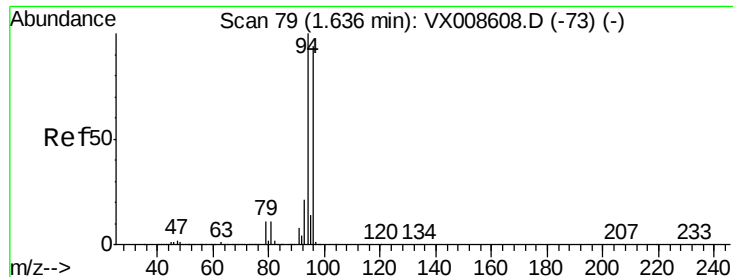
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.050 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

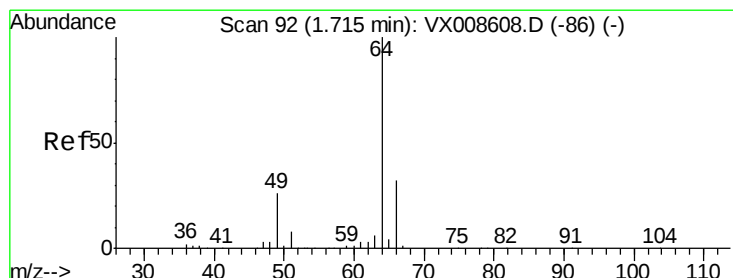
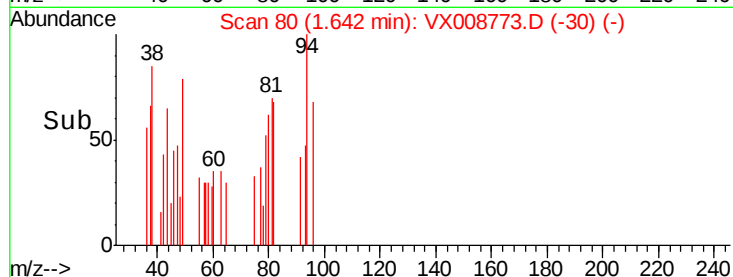
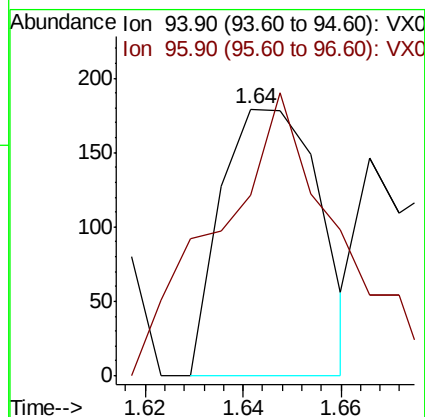
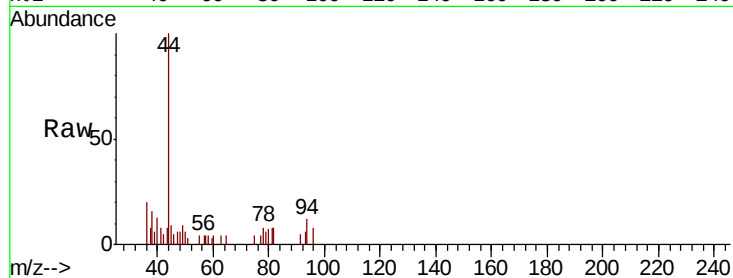
ST008MW214-190403RE

Tot Ion: 94 Resp: 252

Ion Ratio Lower Upper

94 100

96 16.2 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008773.D

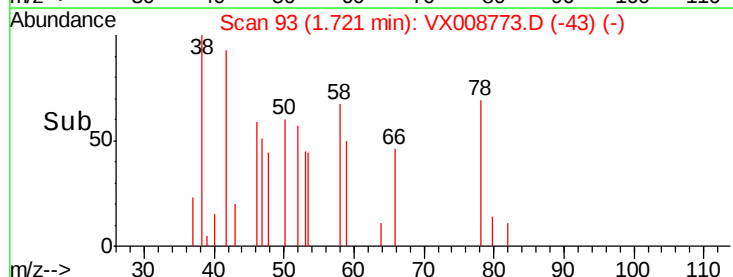
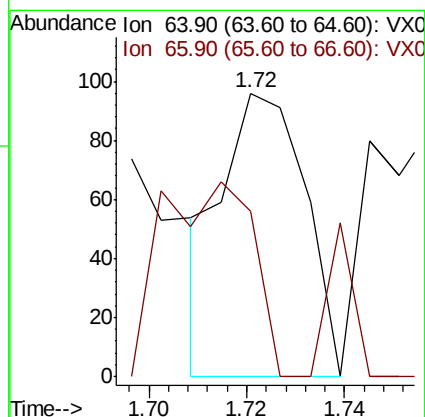
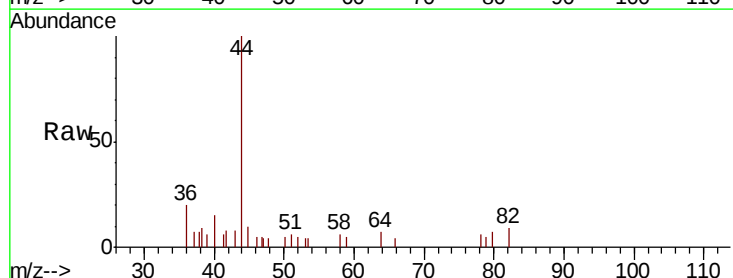
Acq: 09 Apr 2019 16:12

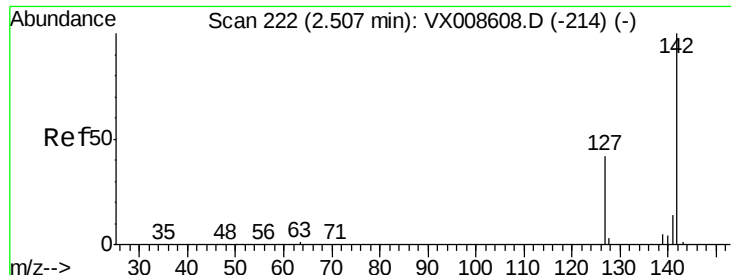
Tgt Ion: 64 Resp: 112

Ion Ratio Lower Upper

64 100

66 5.2 25.4 38.0#

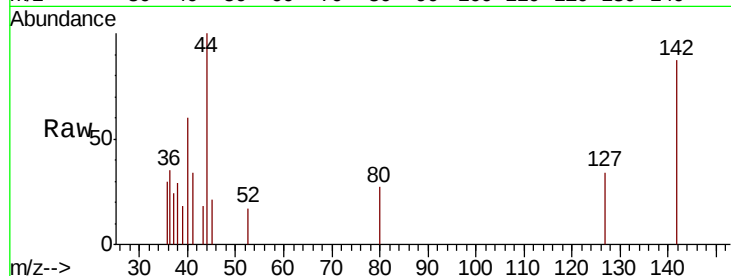




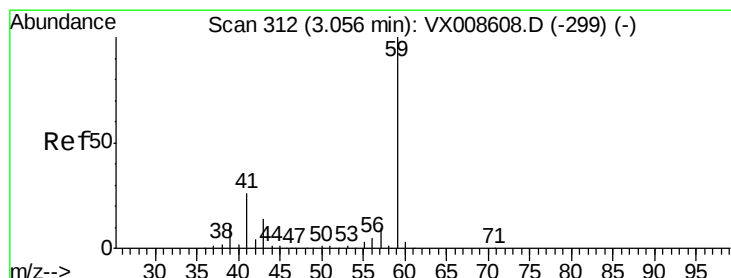
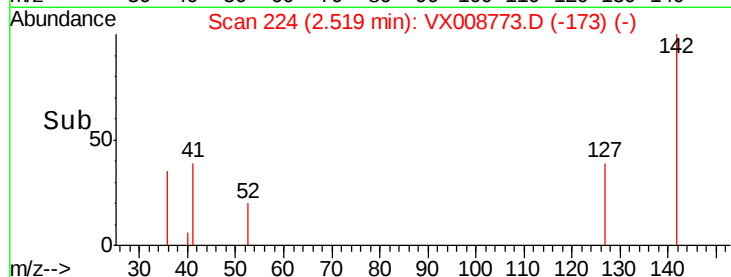
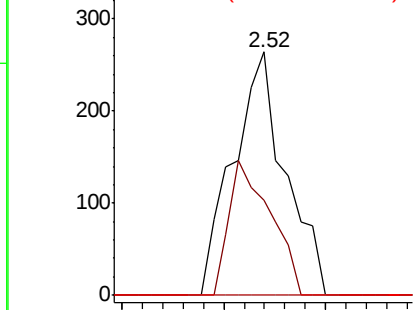
#10
Methvl Iodide
Concen: 4.226 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008773.D
Acq: 09 Apr 2019 16:12

Instrument :
MSVOA_X
ClientSampleId :
ST008MW214-190403RE

Tot Ion:142 Resp: 471
Ion Ratio Lower Upper
142 100
127 43.9 33.0 49.6
141 0.0 11.4 17.2#

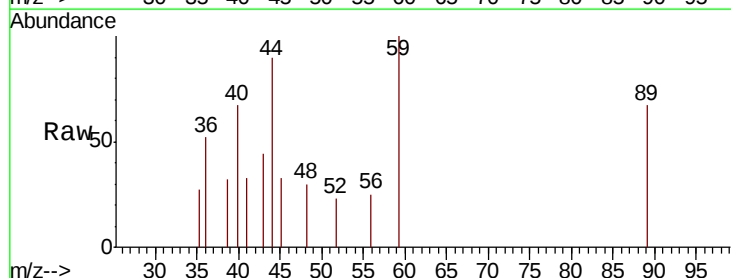


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

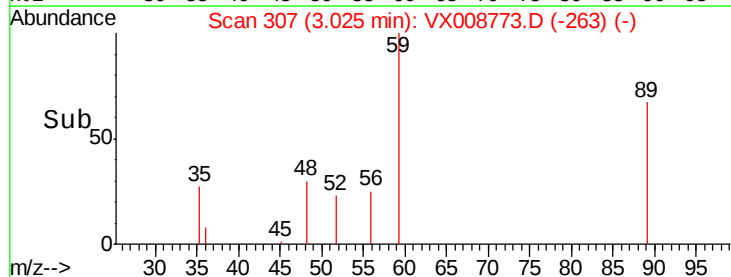
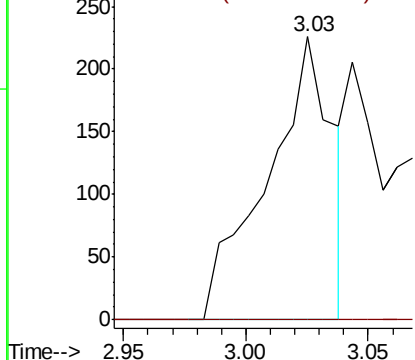


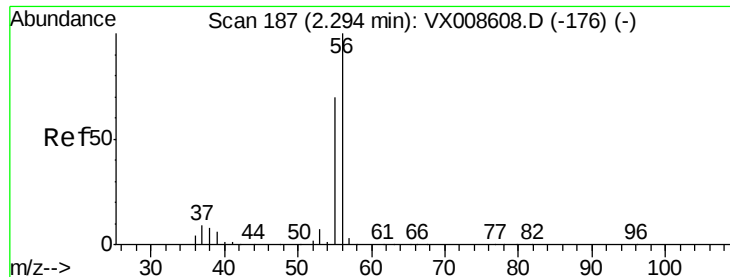
#11
Tert butyl alcohol
Concen: 0.638 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.03 min
Lab File: VX008773.D
Acq: 09 Apr 2019 16:12

Tgt Ion: 59 Resp: 419
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.968 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

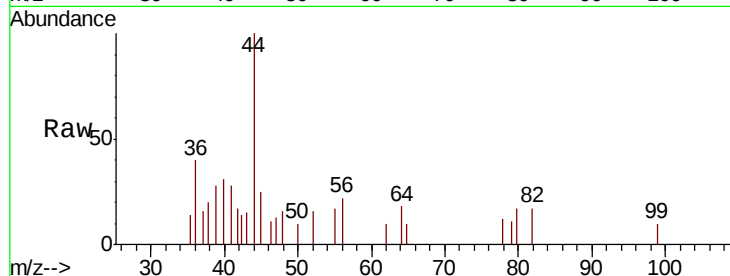
ST008MW214-190403RE

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

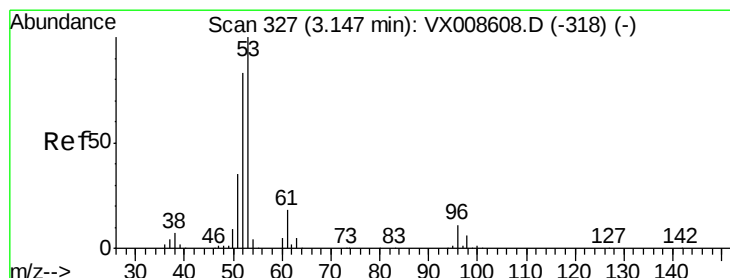
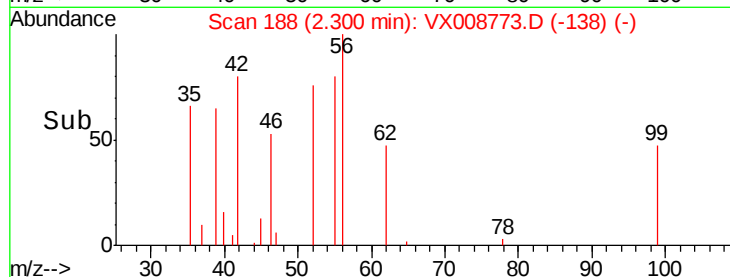
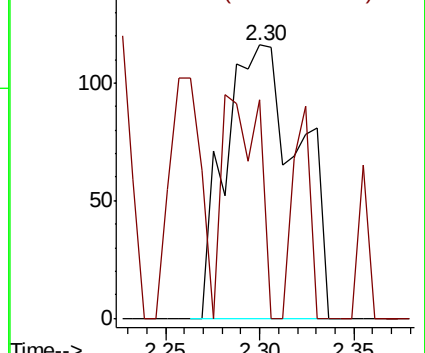
56 100

55 40.3 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.336 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

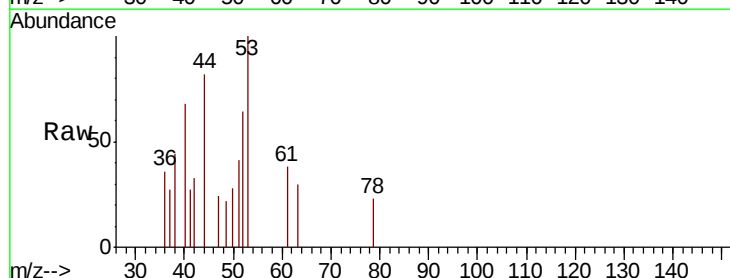
Tgt Ion: 53 Resp: 585

Ion Ratio Lower Upper

53 100

52 76.1 66.5 99.7

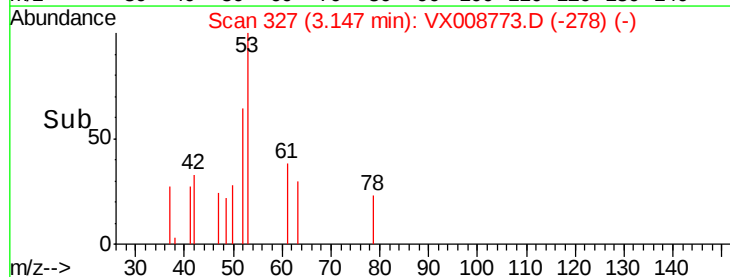
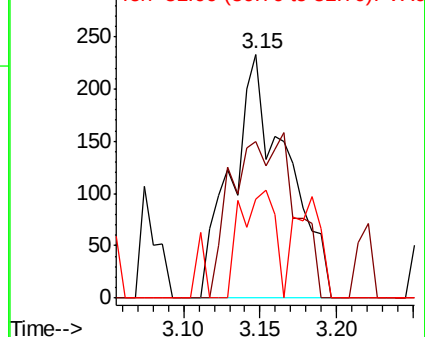
51 27.5 28.6 42.8#

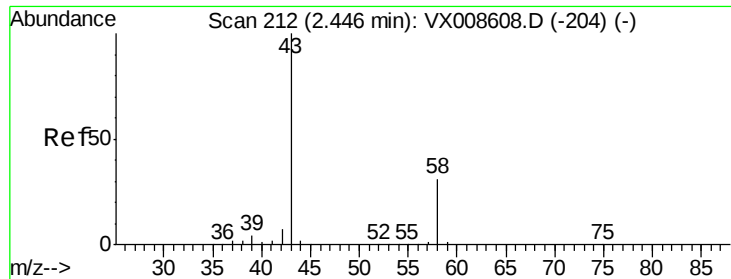


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.210 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

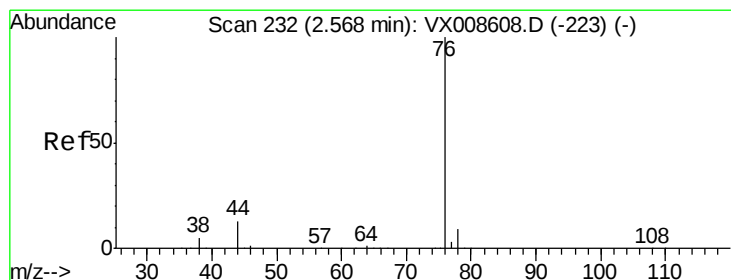
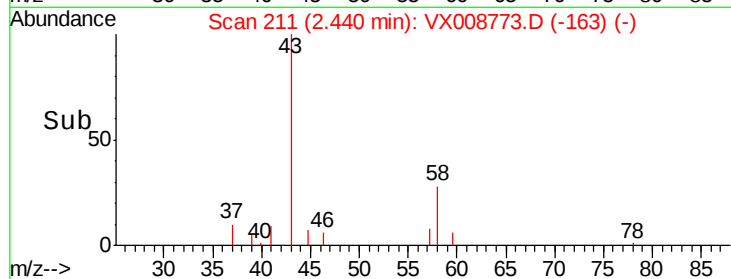
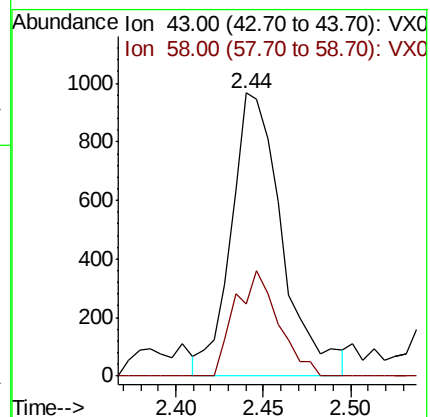
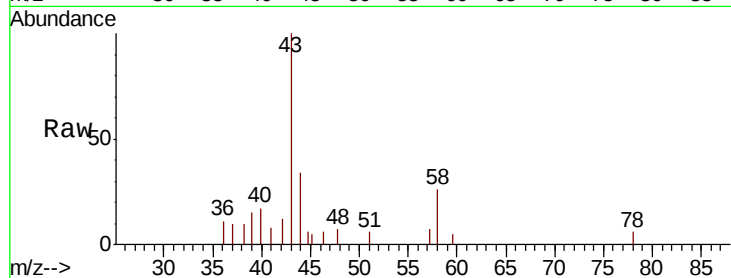
ST008MW214-190403RE

Tot Ion: 43 Resp: 1955

Ion Ratio Lower Upper

43 100

58 27.5 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008773.D

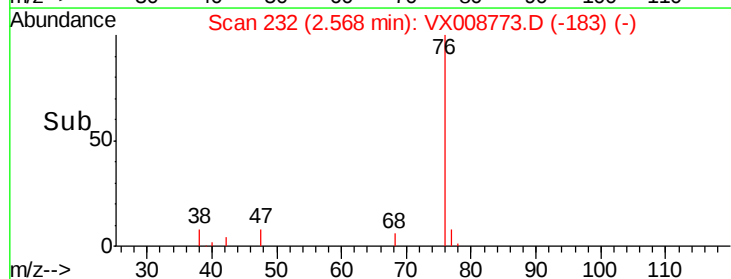
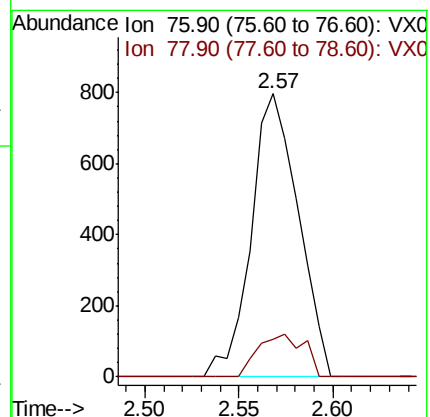
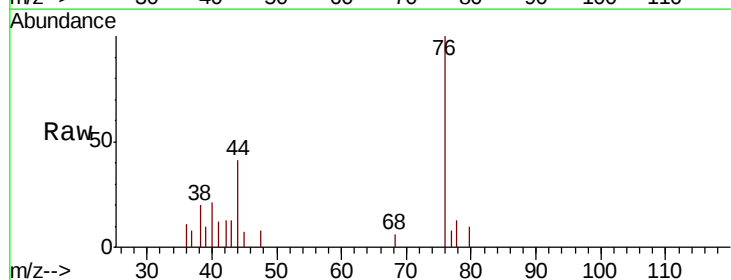
Acq: 09 Apr 2019 16:12

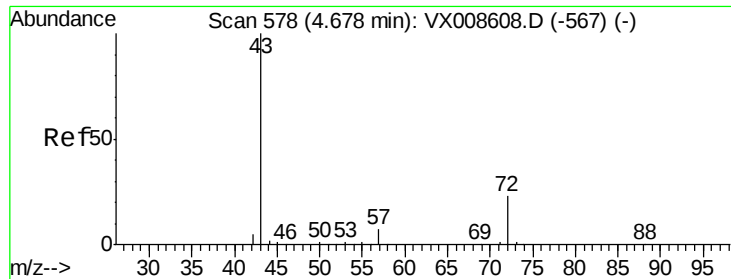
Tgt Ion: 76 Resp: 1381

Ion Ratio Lower Upper

76 100

78 13.2 7.1 10.7#





#25

2-Butanone

Concen: 0.236 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

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ClientSampleId :

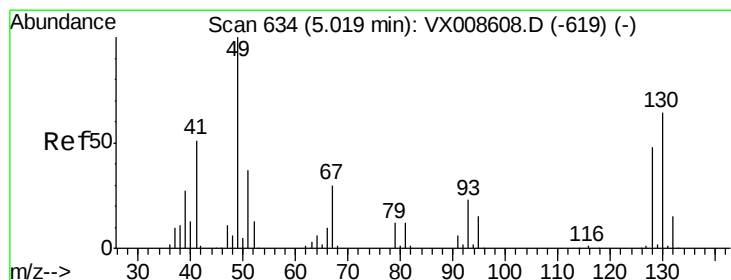
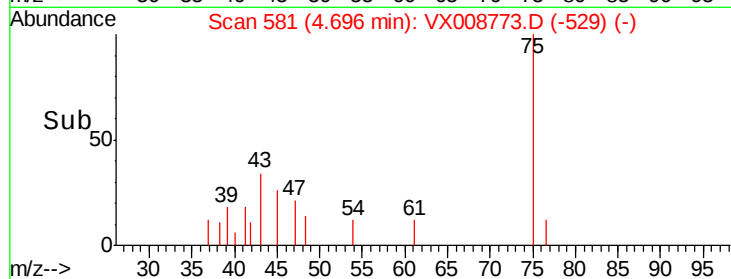
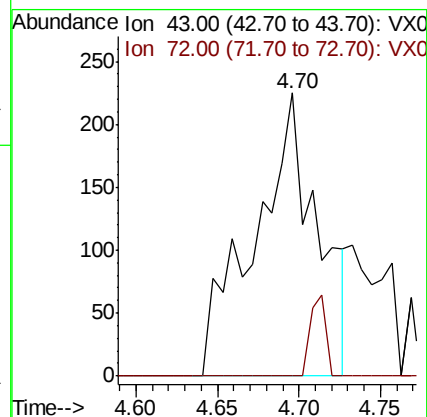
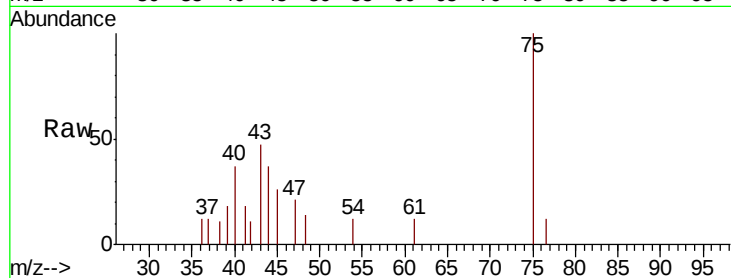
ST008MW214-190403RE

Tot Ion: 43 Resp: 602

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.4#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.05 min Scan# 639

Delta R.T. 0.03 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

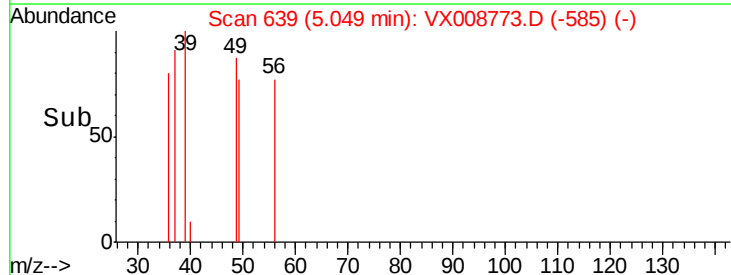
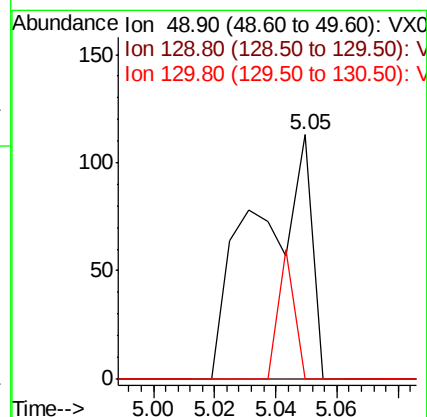
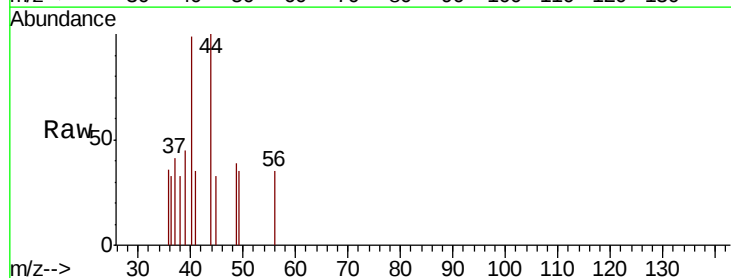
Tgt Ion: 49 Resp: 141

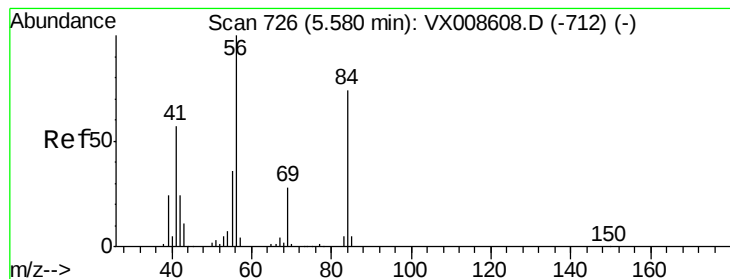
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 15.6 49.3 73.9#





#31

Cyclohexane

Concen: 0.847 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

ST008MW214-190403RE

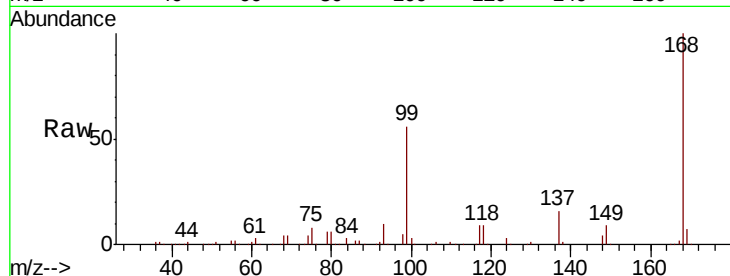
Tot Ion: 56 Resp: 4103

Ion Ratio Lower Upper

56 100

69 186.7 22.6 33.8#

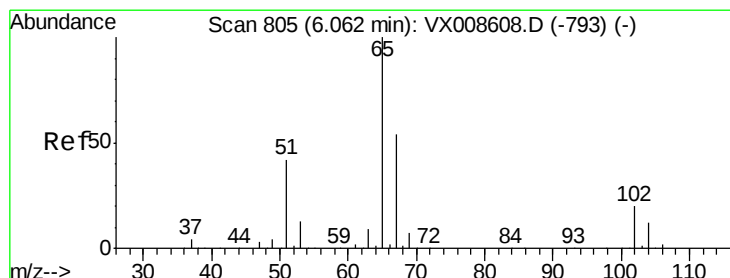
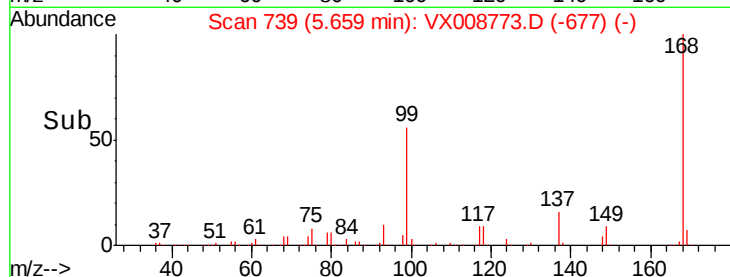
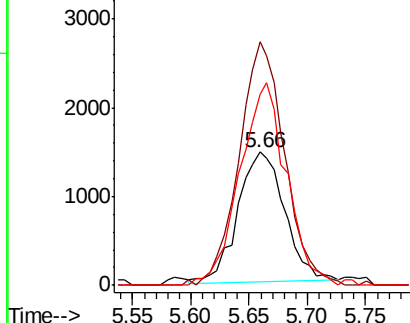
84 149.8 59.3 88.9#



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: 46.544 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008773.D

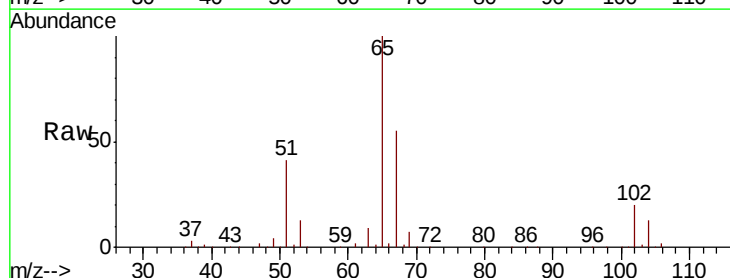
Acq: 09 Apr 2019 16:12

Tgt Ion: 65 Resp: 130522

Ion Ratio Lower Upper

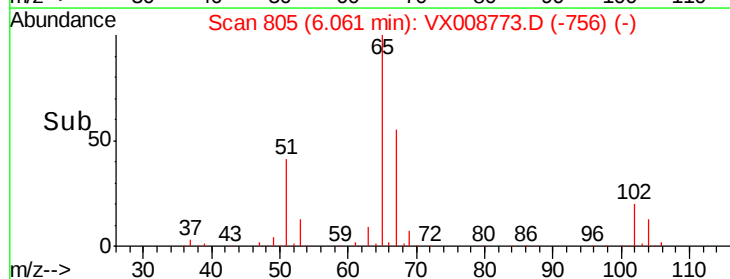
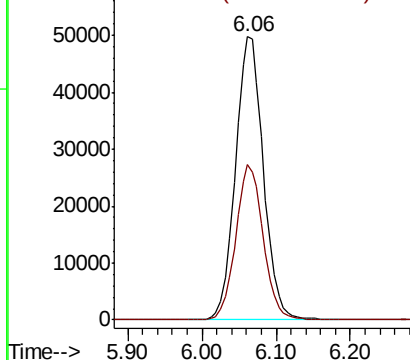
65 100

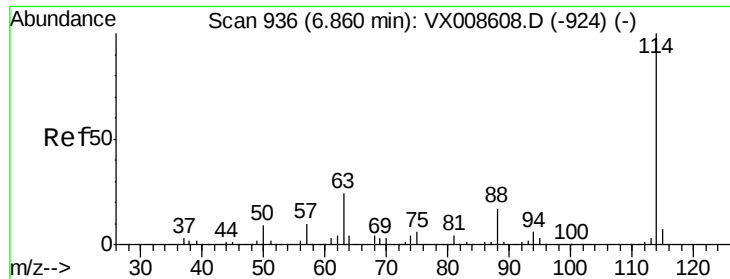
67 54.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

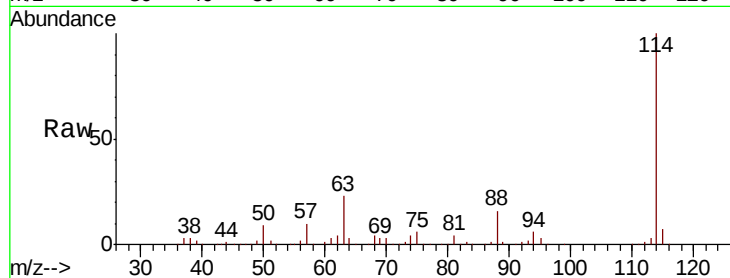




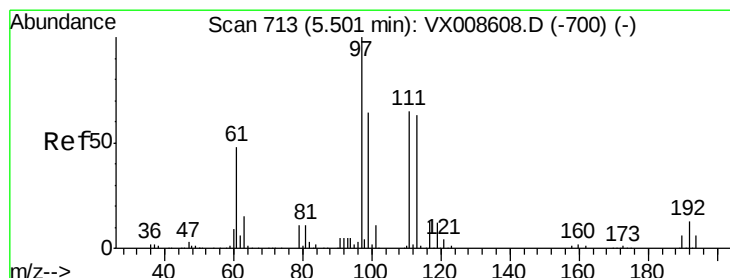
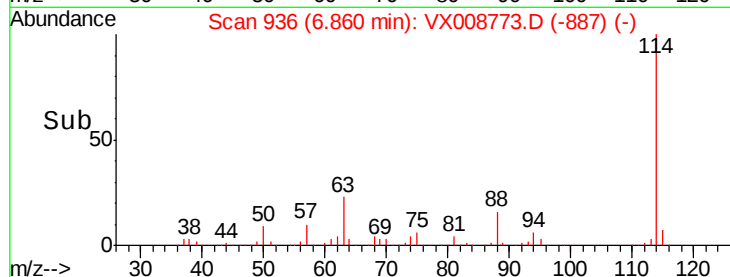
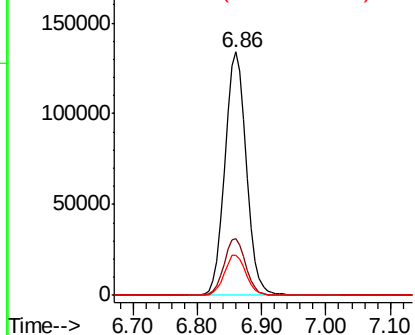
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008773.D
Acq: 09 Apr 2019 16:12

Instrument :
MSVOA_X
ClientSampleId :
ST008MW214-190403RE

Tot Ion:114 Resp: 316205
Ion Ratio Lower Upper
114 100
63 23.1 0.0 47.2
88 16.4 0.0 34.0

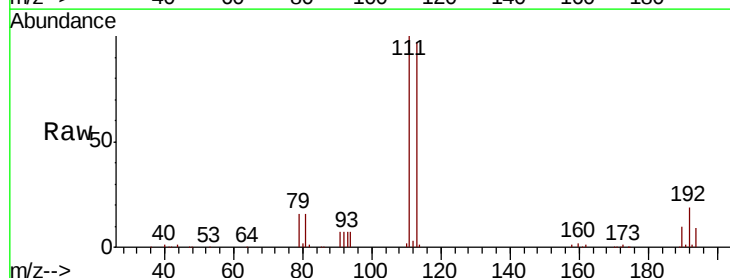


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

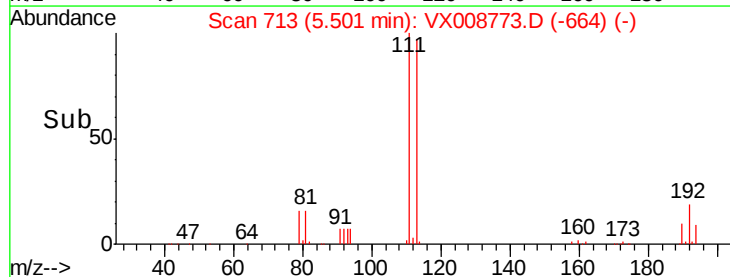
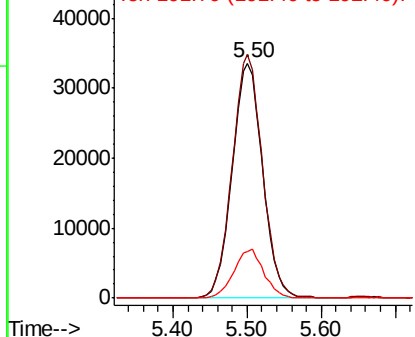


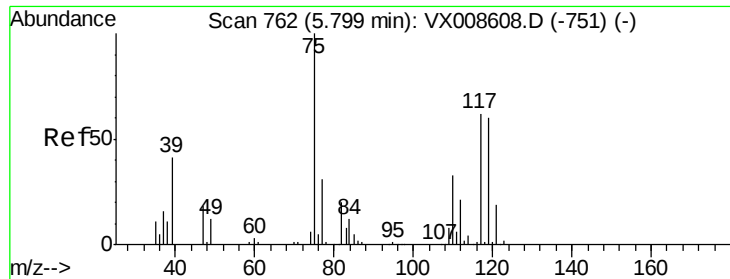
#35
Dibromofluoromethane
Concen: 47.638 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008773.D
Acq: 09 Apr 2019 16:12

Tgt Ion:113 Resp: 96310
Ion Ratio Lower Upper
113 100
111 102.8 83.4 125.2
192 20.4 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





#36

1,1-Dichloropropene

Concen: 4.468 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

ST008MW214-190403RE

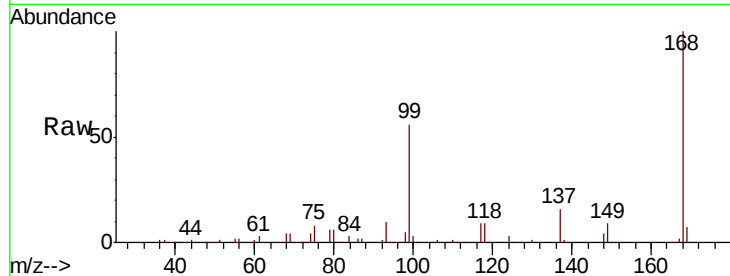
Tot Ion: 75 Resp: 15444

Ion Ratio Lower Upper

75 100

110 8.2 16.4 49.2#

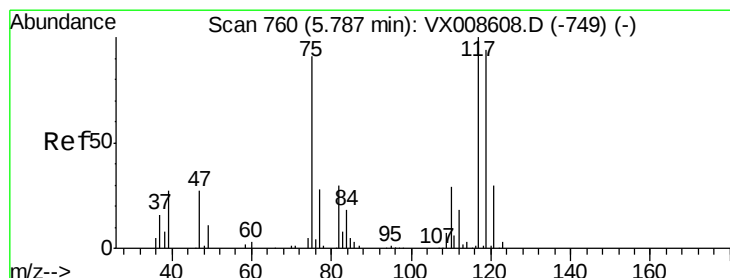
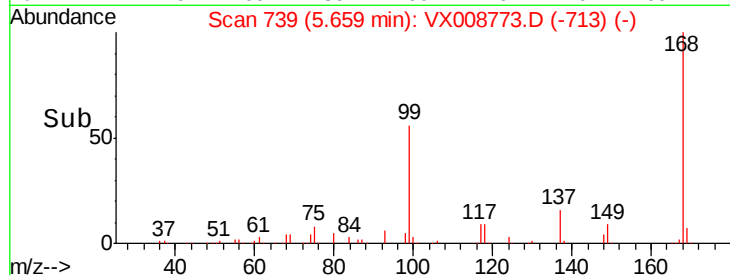
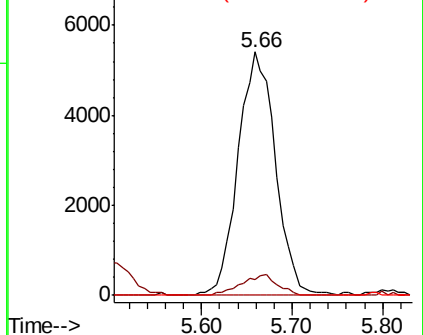
77 0.0 24.7 37.1#



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: 6.307 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

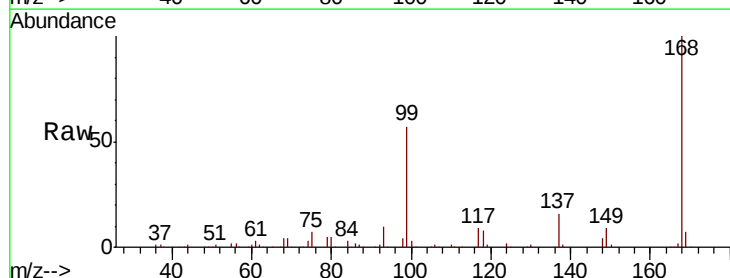
Tgt Ion: 117 Resp: 18042

Ion Ratio Lower Upper

117 100

119 5.9 75.0 112.6#

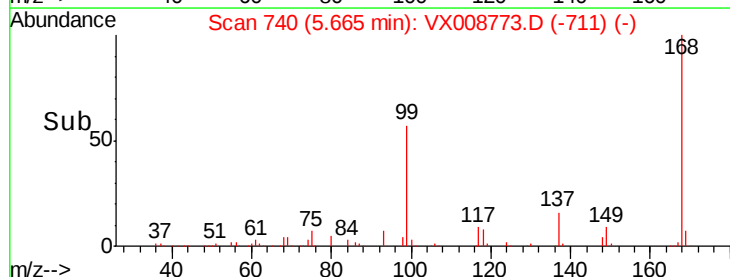
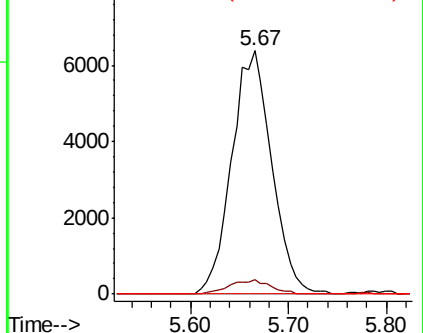
121 0.0 24.3 36.5#

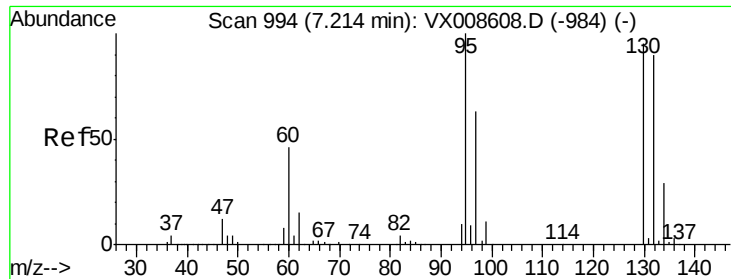


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

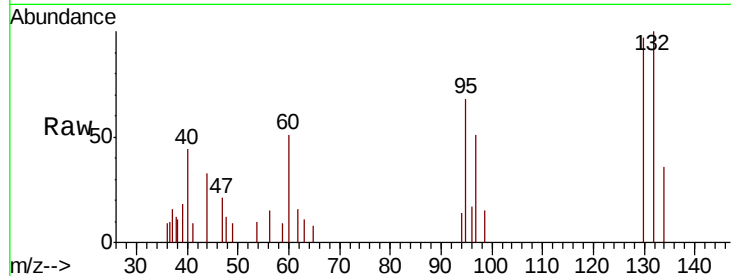




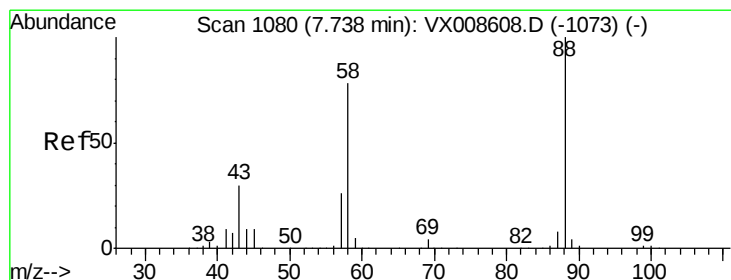
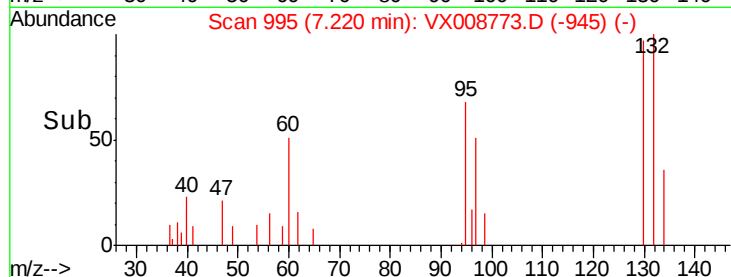
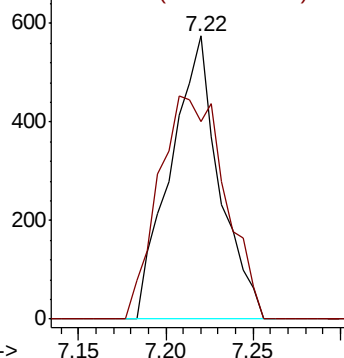
#44
 Trichloroethene
 Concen: 0.464 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX008773.D
 Acq: 09 Apr 2019 16:12

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW214-190403RE

Tot Ion:130 Resp: 1113
 Ion Ratio Lower Upper
 130 100
 95 69.9 0.0 209.8

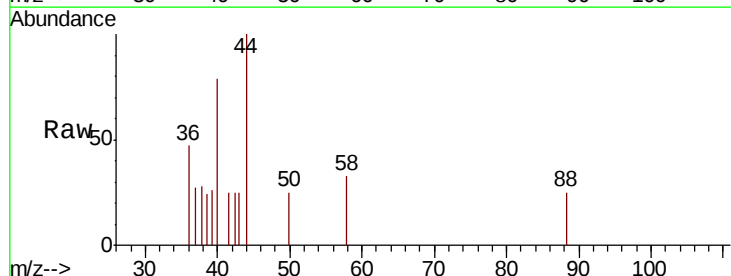


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

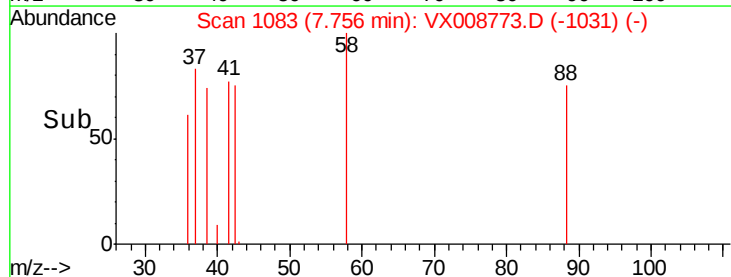
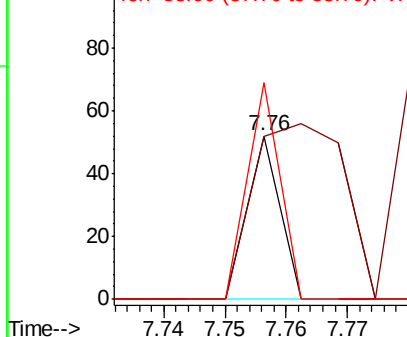


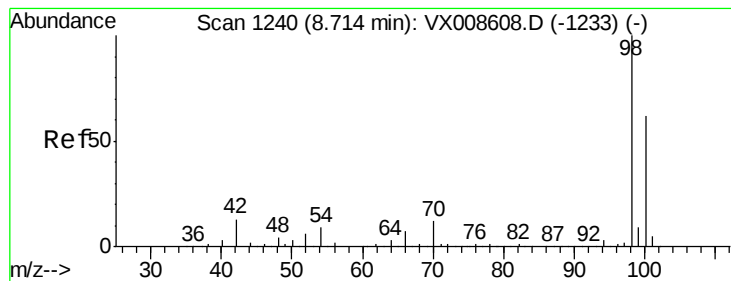
#49
 1,4-Dioxane
 Concen: 0.277 ug/l
 RT: 7.76 min Scan# 1083
 Delta R.T. 0.02 min
 Lab File: VX008773.D
 Acq: 09 Apr 2019 16:12

Tgt Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 305.3 28.6 43.0#
 58 131.6 62.2 93.2#



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: 48.222 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

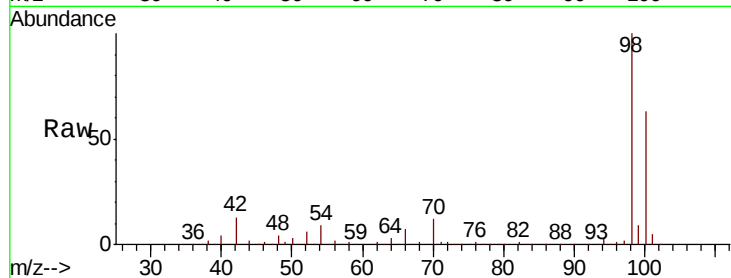
ST008MW214-190403RE

Tot Ion: 98 Resp: 388181

Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

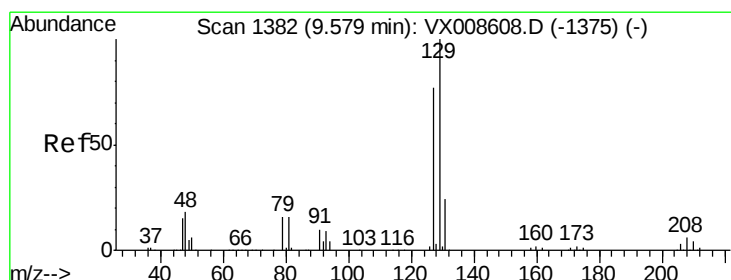
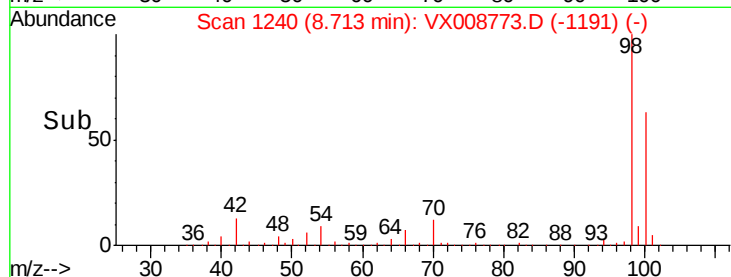
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#60

Dibromochloromethane

Concen: 2.409 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008773.D

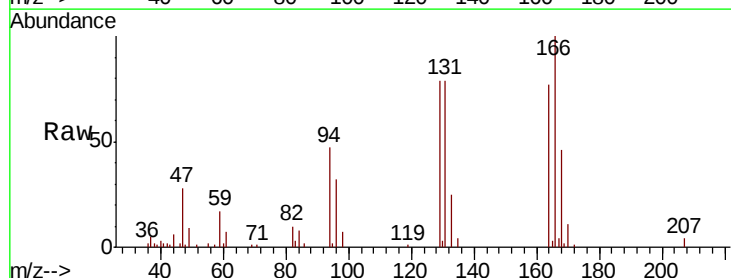
Acq: 09 Apr 2019 16:12

Tgt Ion:129 Resp: 5532

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

9.34

4000

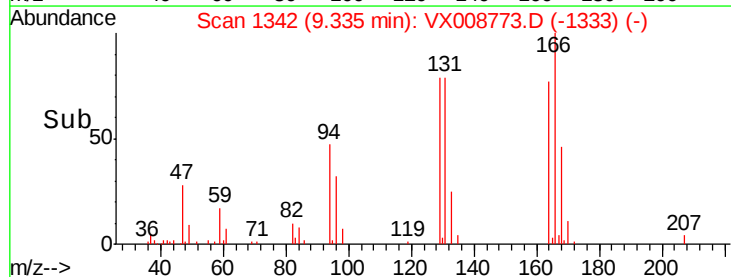
3000

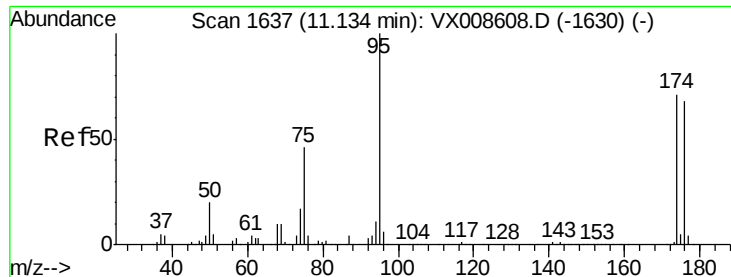
2000

1000

0

Time--> 9.30 9.35 9.40





#62

4-Bromofluorobenzene

Concen: 42.023 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

ST008MW214-190403RE

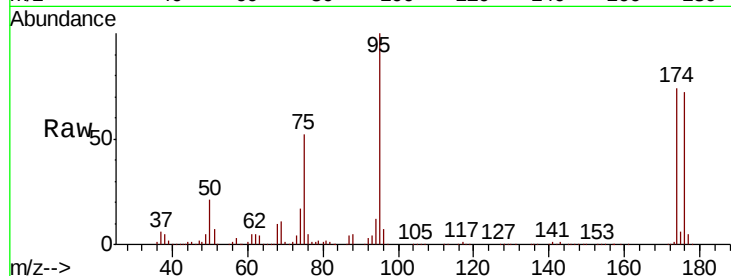
Tot Ion: 95 Resp: 119958

Ion Ratio Lower Upper

95 100

174 78.7 0.0 151.8

176 76.2 0.0 145.8

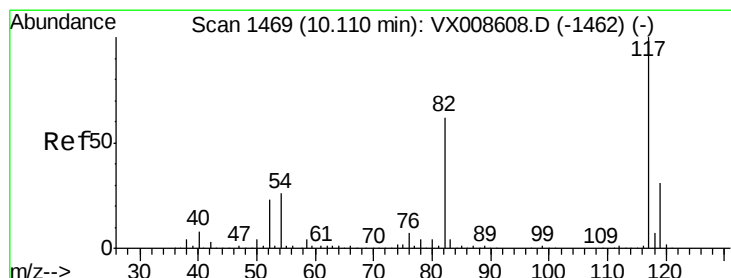
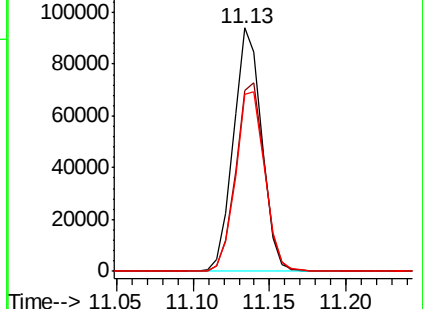
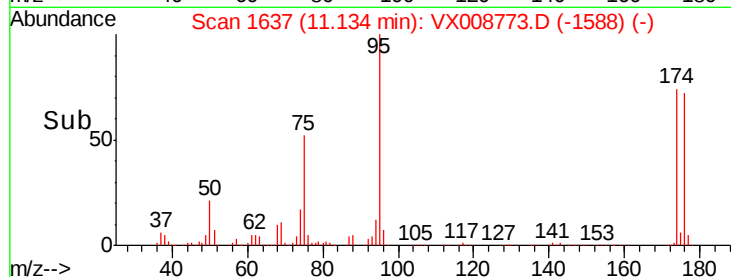


Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)

Time--> 11.05 11.10 11.15 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

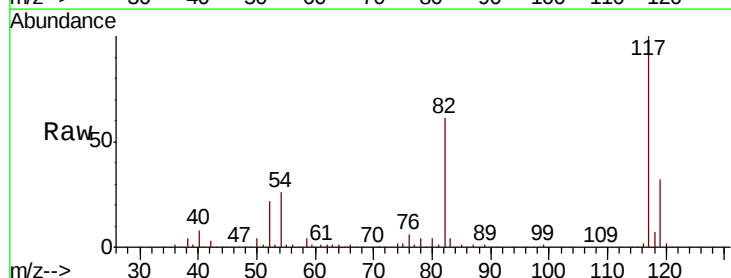
Tgt Ion: 117 Resp: 260999

Ion Ratio Lower Upper

117 100

82 61.5 49.6 74.4

119 31.7 25.0 37.4

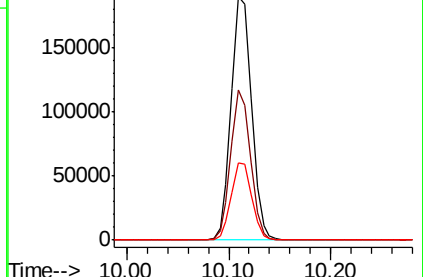
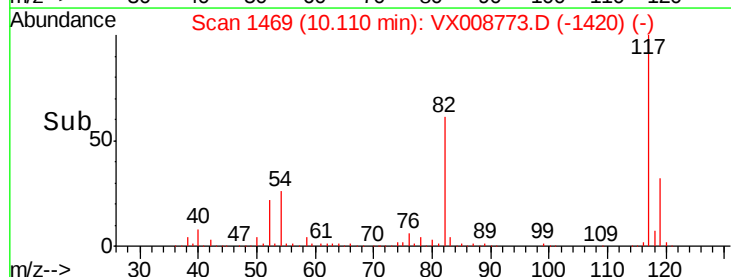


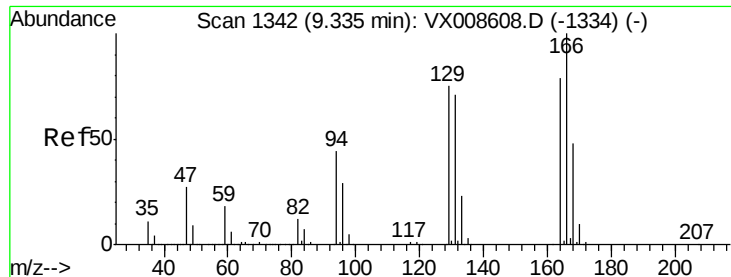
Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)

Time--> 10.00 10.10 10.20





#64

Tetrachloroethene

Concen: 2.921 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

ST008MW214-190403RE

Tot Ion:164 Resp: 5648

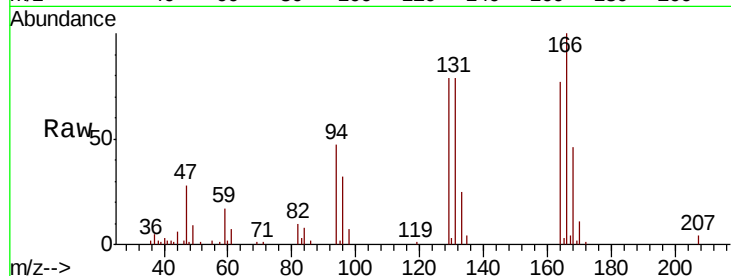
Ion Ratio Lower Upper

164 100

166 129.3 101.0 151.6

129 101.6 75.8 113.8

131 102.2 71.8 107.8

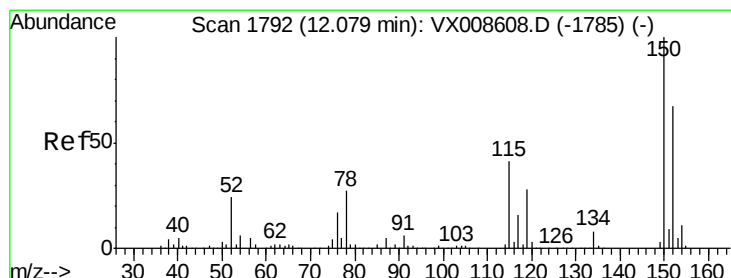
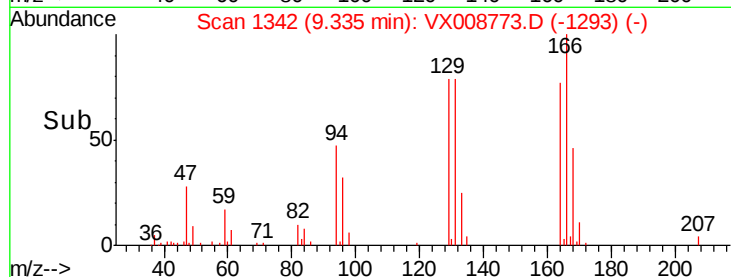
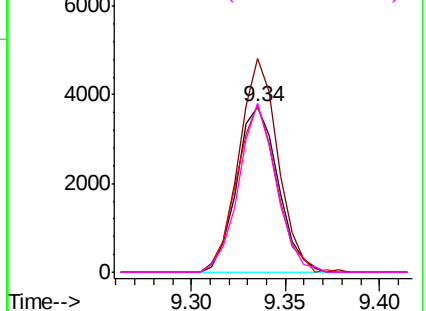


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX008773.D

Acq: 09 Apr 2019 16:12

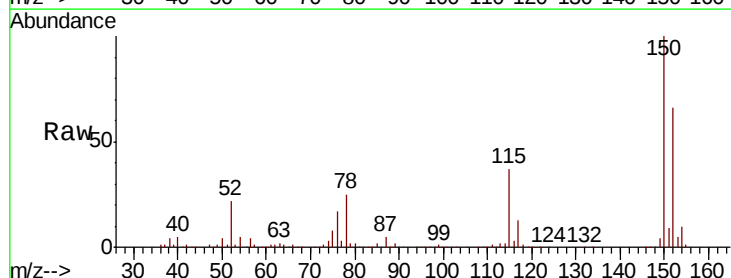
Tgt Ion:152 Resp: 103303

Ion Ratio Lower Upper

152 100

115 59.4 43.5 130.5

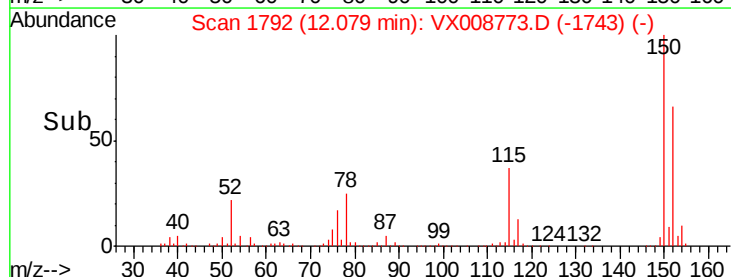
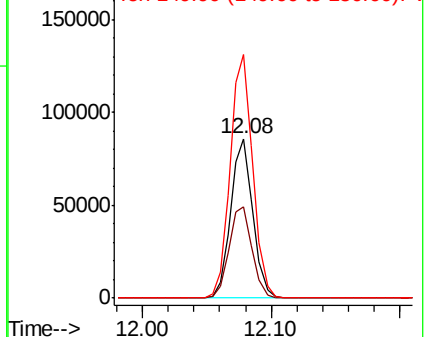
150 155.9 0.0 348.8

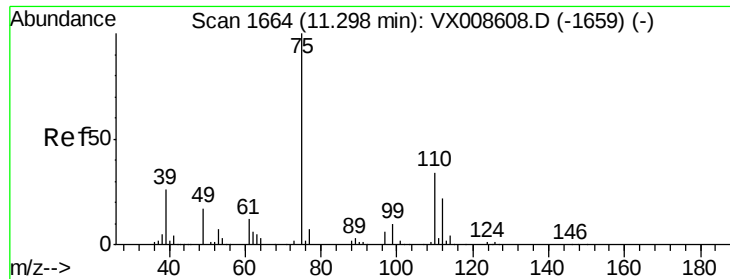


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

Instrument :

MSVOA_X

ClientSampleId :

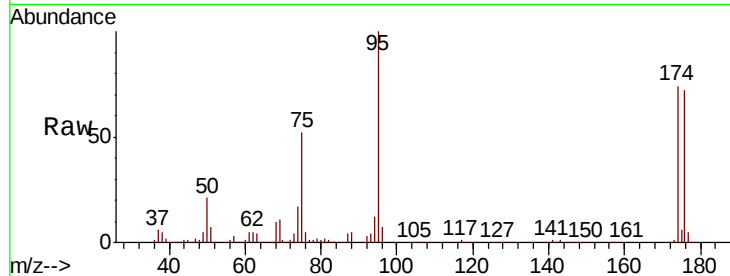
ST008MW214-190403RE

Tot Ion: 75 Resp: 61517

Ion Ratio Lower Upper

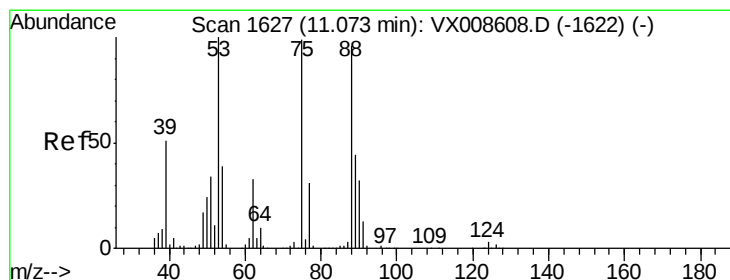
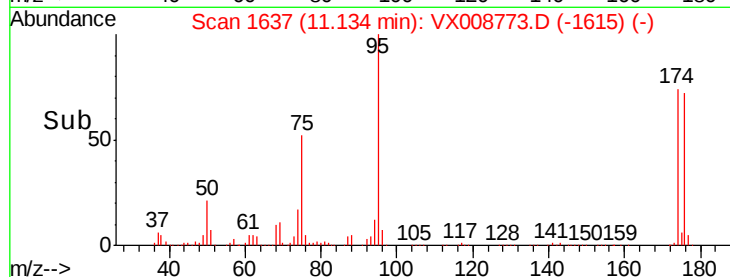
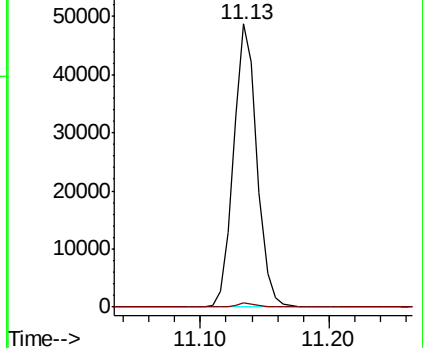
75 100

77 1.4 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: 59.755 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008773.D

Acq: 09 Apr 2019 16:12

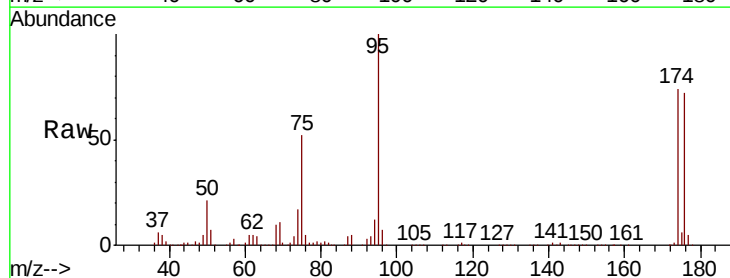
Tgt Ion: 75 Resp: 61517

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

