

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX041119\
 Data File : VX008864.D
 Acq On : 11 Apr 2019 20:00
 Operator : JC/SP
 Sample : K2349-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409

Quant Time: Apr 12 07:38:44 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	5.66	168	196581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	314952	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	273901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116431	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	128828	44.93	ug/l	0.00
Spiked Amount						
			Recovery	=	89.86%	
35) Dibromofluoromethane	5.50	113	94746	47.05	ug/l	0.00
Spiked Amount						
			Recovery	=	94.10%	
50) Toluene-d8	8.71	98	394712	49.23	ug/l	0.00
Spiked Amount						
			Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.13	95	132646	46.65	ug/l	0.00
Spiked Amount						
			Recovery	=	93.30%	

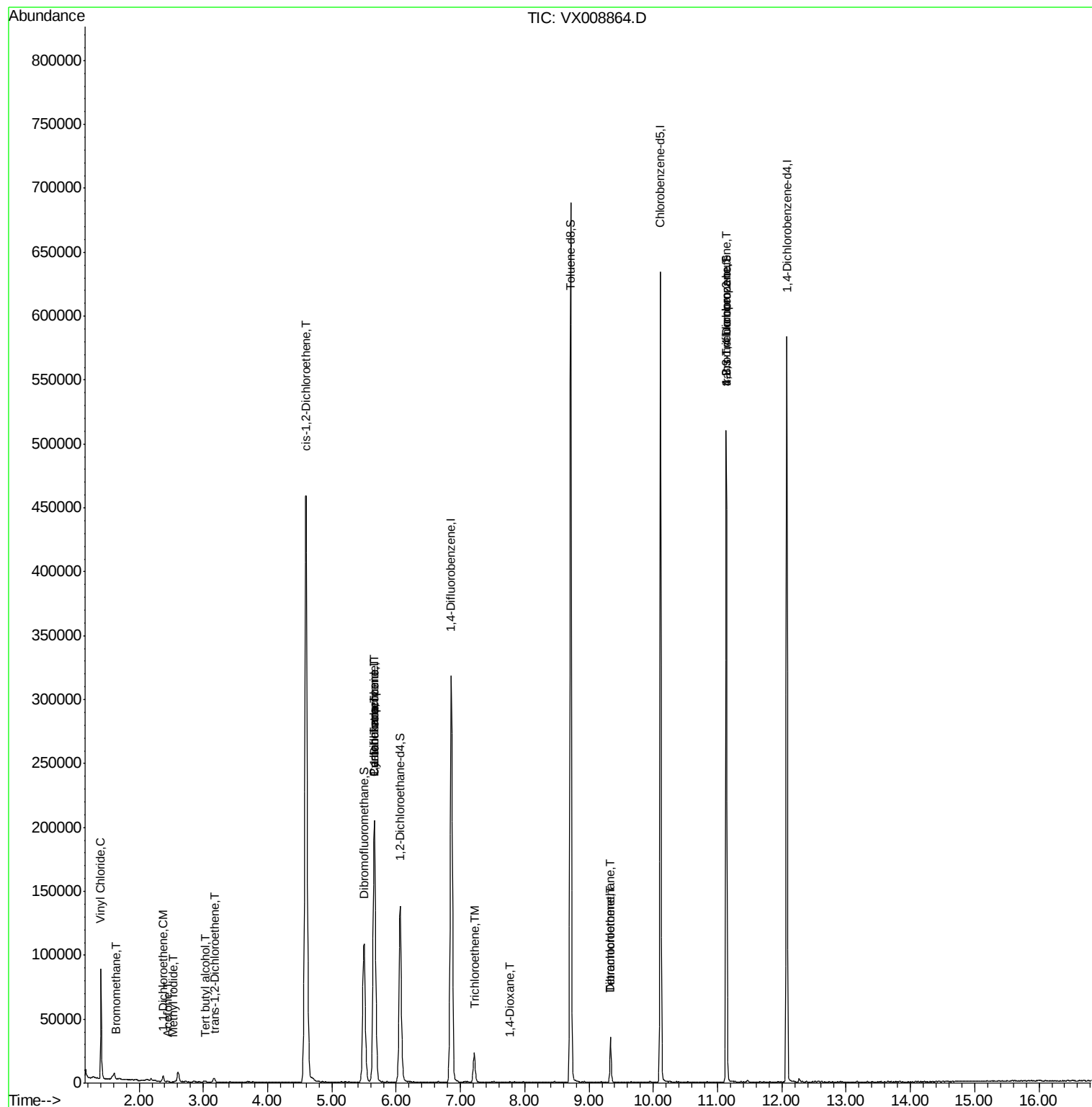
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	310	Below Cal	#	71
4) Vinyl Chloride	1.40	62	59994	19.613	ug/l	99
5) Bromomethane	1.65	94	318	2.088	ug/l	95
6) Chloroethane	1.60	64	259	Below Cal	#	43
10) Methyl Iodide	2.53	142	96	4.048	ug/l	# 42
11) Tert butyl alcohol	3.03	59	619	0.922	ug/l	# 91
12) 1,1-Dichloroethene	2.37	96	1503	0.661	ug/l	93
16) Acetone	2.44	43	811	0.491	ug/l	94
17) Carbon Disulfide	2.57	76	611	Below Cal	#	71
21) trans-1,2-Dichloroethene	3.17	96	1065	0.433	ug/l	# 75
27) cis-1,2-Dichloroethene	4.60	96	286309	101.302	ug/l	89
28) Bromochloromethane	5.03	49	47	Below Cal	#	22
31) Cyclohexane	5.67	56	4291	0.866	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	15893	4.616	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	18441	6.472	ug/l	# 16
44) Trichloroethene	7.21	130	8431	3.529	ug/l	83
49) 1,4-Dioxane	7.77	88	19	0.279	ug/l	# 1
60) Dibromochloromethane	9.34	129	6305	2.757	ug/l	# 11
64) Tetrachloroethene	9.34	164	6651	3.277	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	68084	21.286	ug/l	# 34
81) trans-1,4-Dichloro-2-buten	11.13	75	68084	58.677	ug/l	# 9

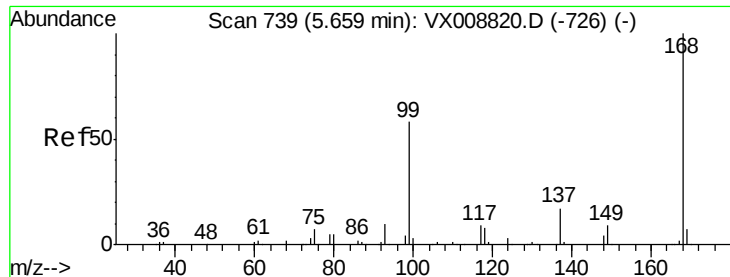
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

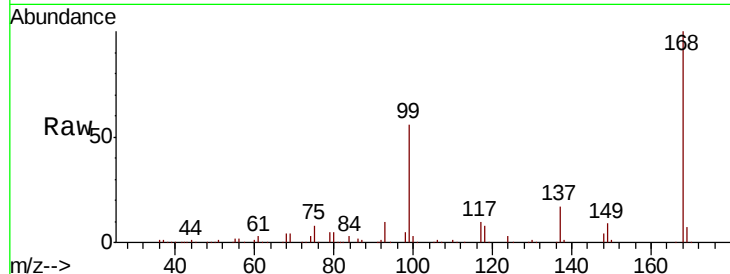
ST008MW151-190409

Tgt Ion:168 Resp: 196581

Ion Ratio Lower Upper

168 100

99 55.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

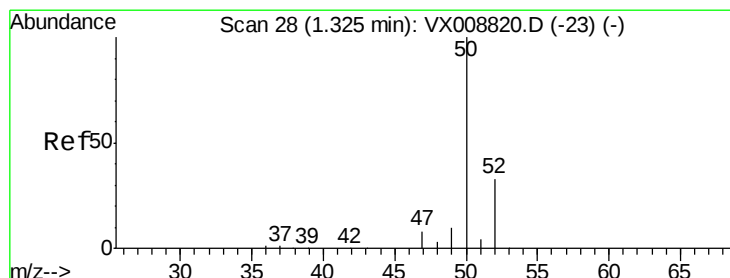
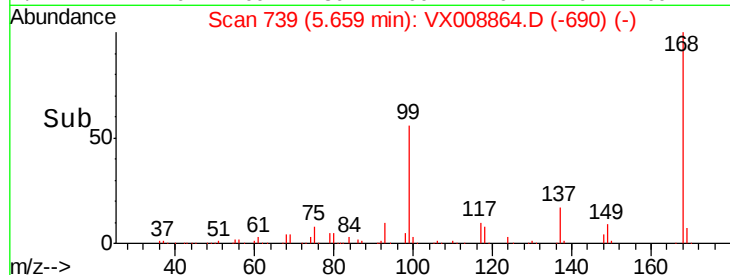
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008864.D

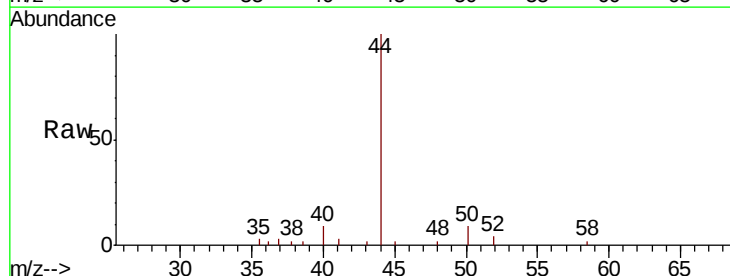
Acq: 11 Apr 2019 20:00

Tgt Ion: 50 Resp: 310

Ion Ratio Lower Upper

50 100

52 48.5 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

300

250

200

150

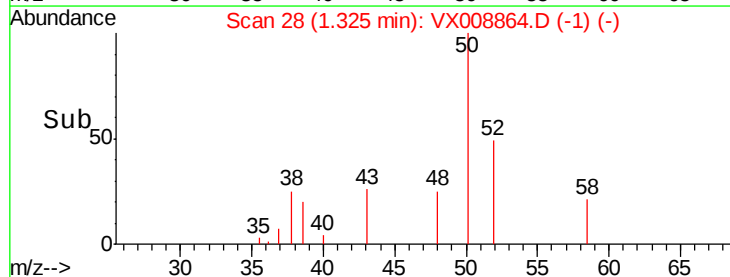
100

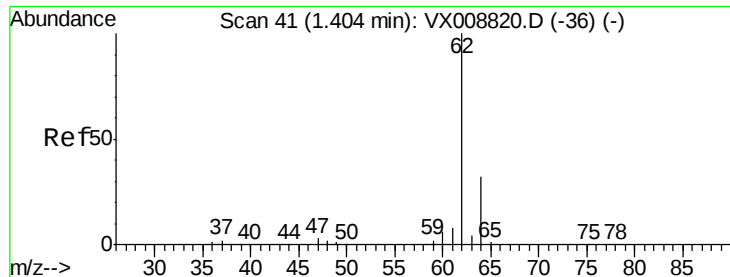
50

0

1.30 1.32 1.34 1.36

Time-->





#4

Vinyl Chloride

Concen: 19.613 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

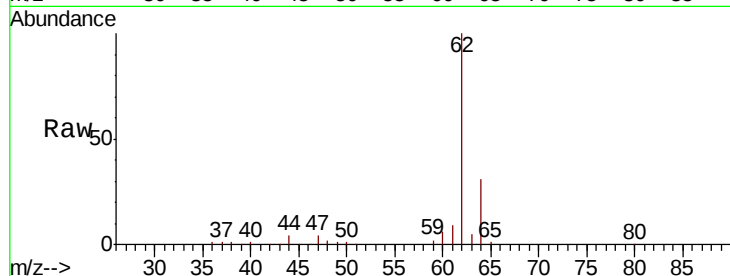
ST008MW151-190409

Tgt Ion: 62 Resp: 59994

Ion Ratio Lower Upper

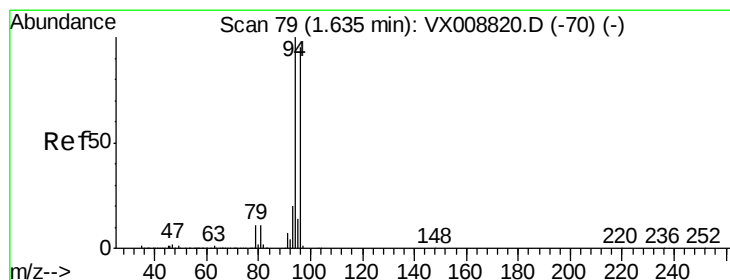
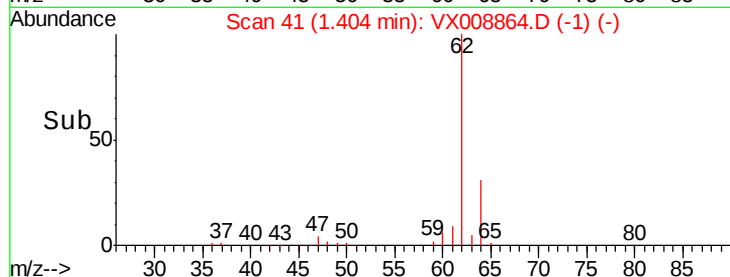
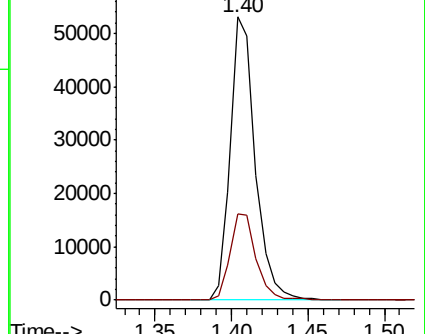
62 100

64 30.6 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: 2.088 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008864.D

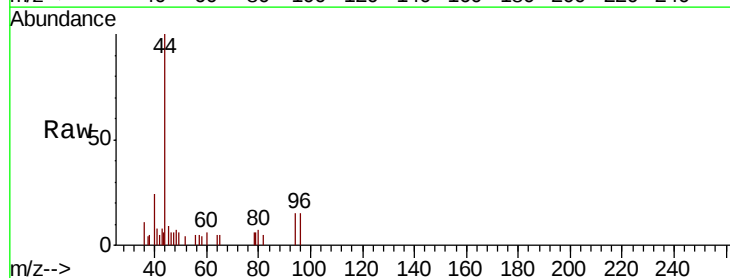
Acq: 11 Apr 2019 20:00

Tgt Ion: 94 Resp: 318

Ion Ratio Lower Upper

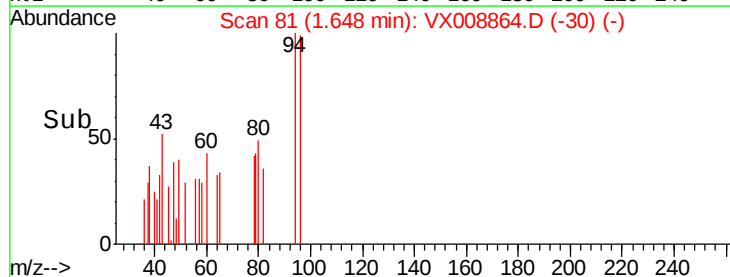
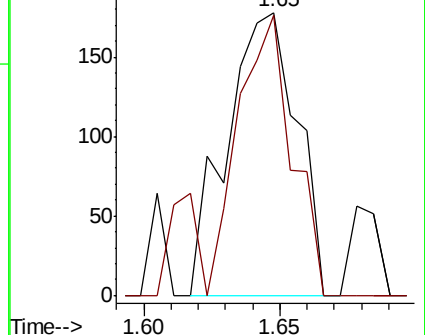
94 100

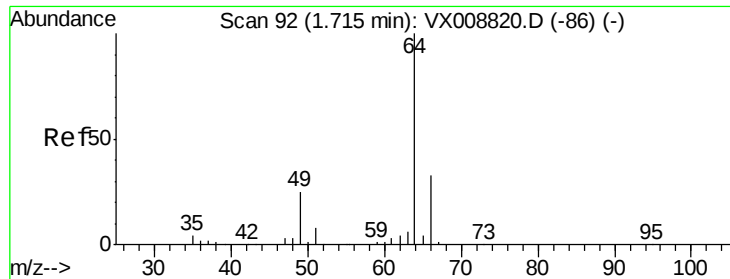
96 98.9 75.2 112.8



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: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

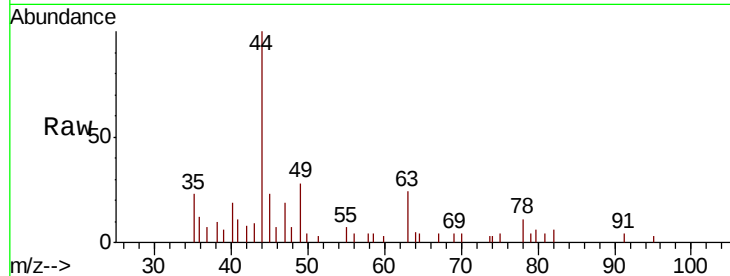
ST008MW151-190409

Tgt Ion: 64 Resp: 259

Ion Ratio Lower Upper

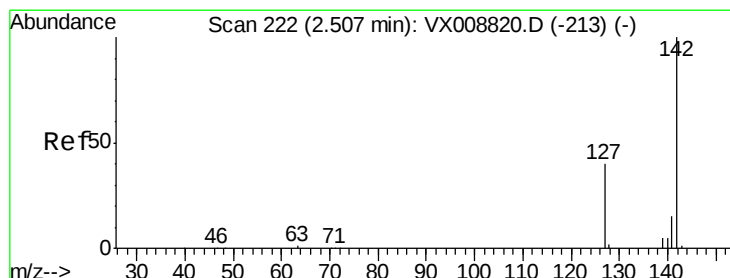
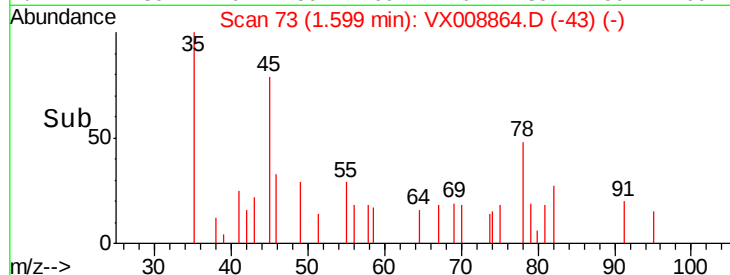
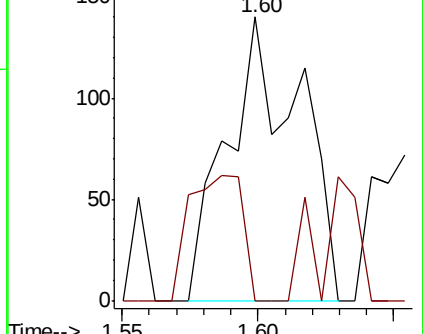
64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.048 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.02 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

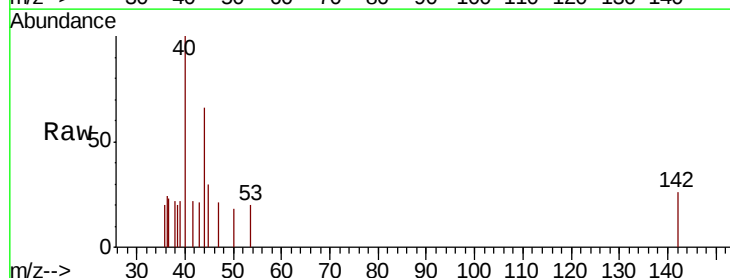
Tgt Ion: 142 Resp: 96

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

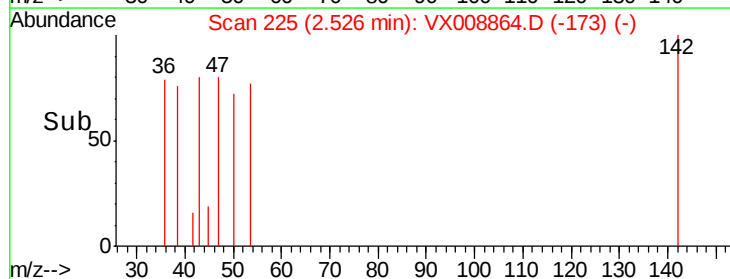
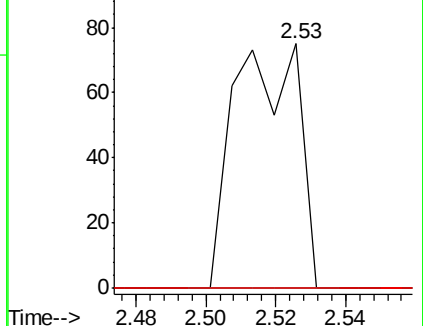
141 0.0 11.4 17.2#

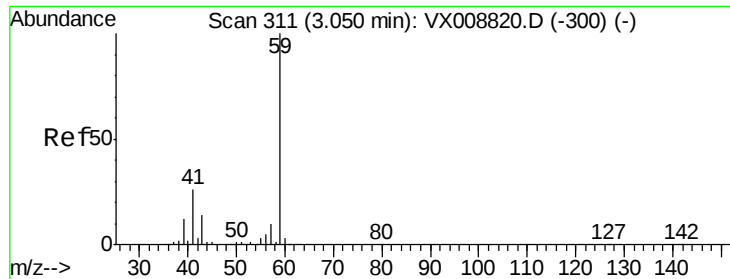


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

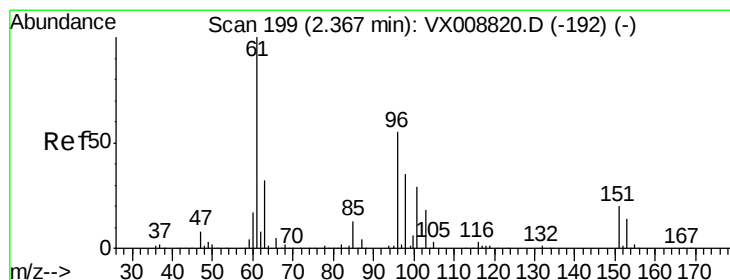
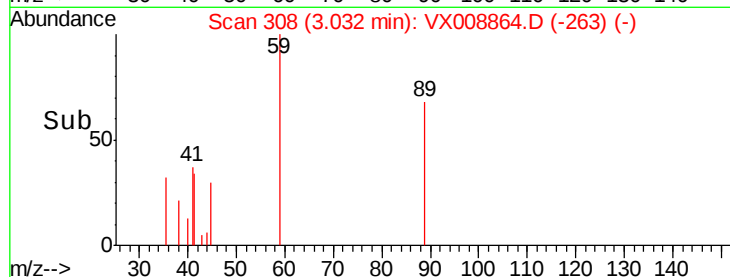
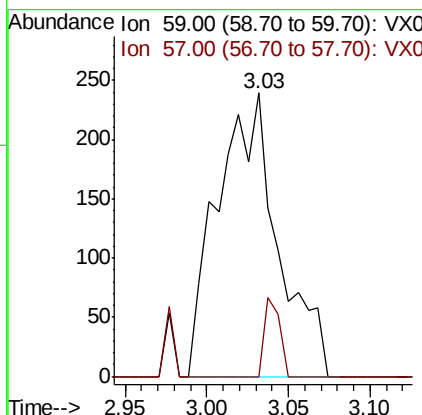
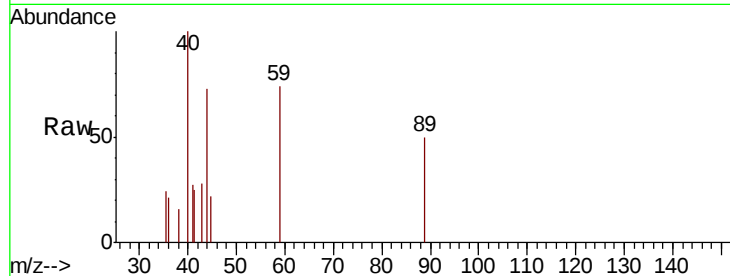




#11
Tert butyl alcohol
Concen: 0.922 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

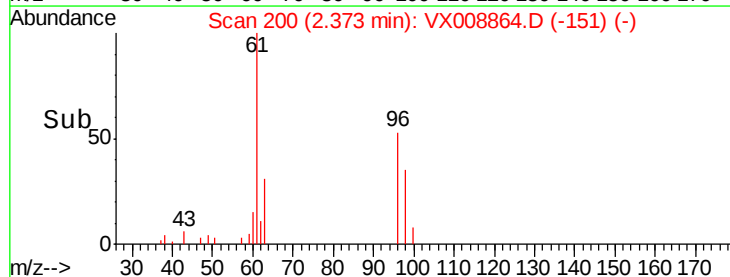
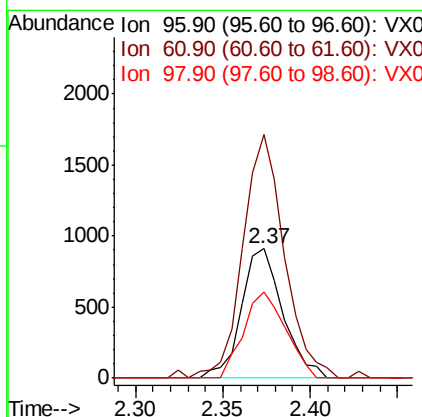
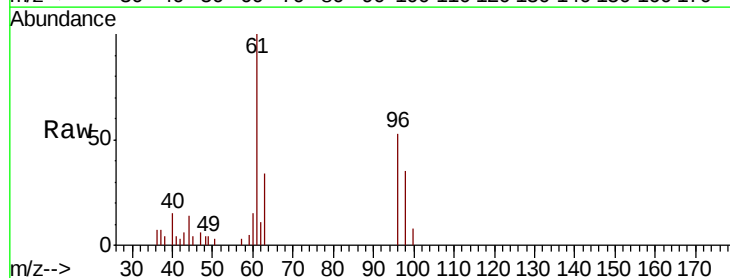
Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-190409

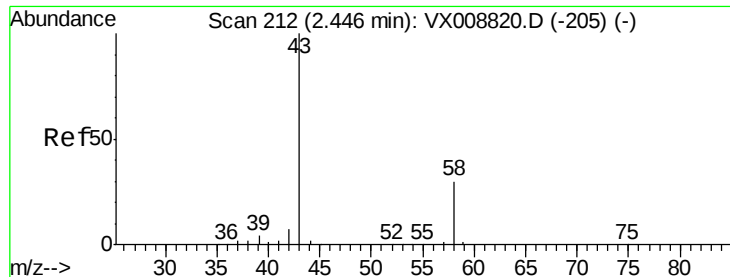
Tgt Ion: 59 Resp: 619
Ion Ratio Lower Upper
59 100
57 7.1 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.661 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

Tgt Ion: 96 Resp: 1503
Ion Ratio Lower Upper
96 100
61 188.1 140.9 211.3
98 66.4 52.1 78.1





#16

Acetone

Concen: 0.491 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

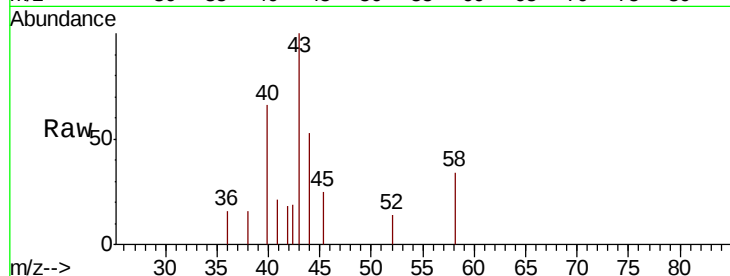
ST008MW151-190409

Tgt Ion: 43 Resp: 811

Ion Ratio Lower Upper

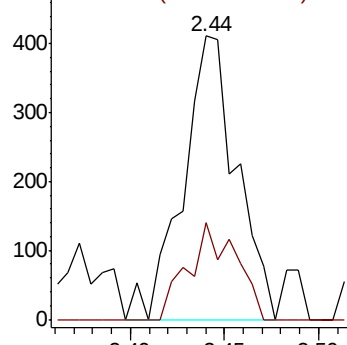
43 100

58 34.3 24.8 37.2

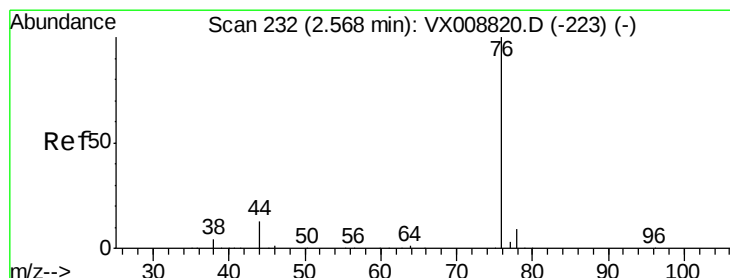
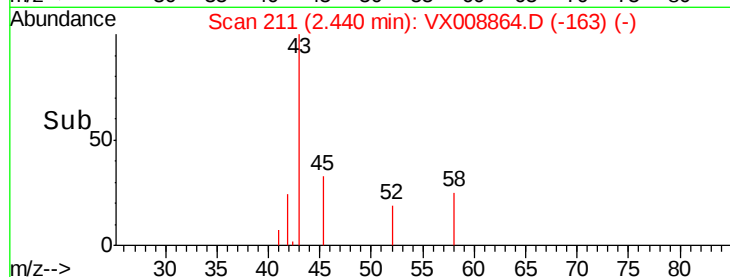


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008864.D

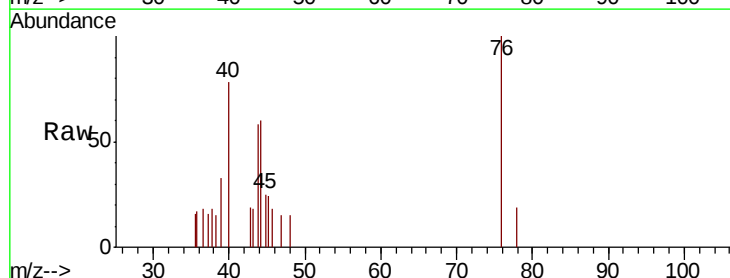
Acq: 11 Apr 2019 20:00

Tgt Ion: 76 Resp: 611

Ion Ratio Lower Upper

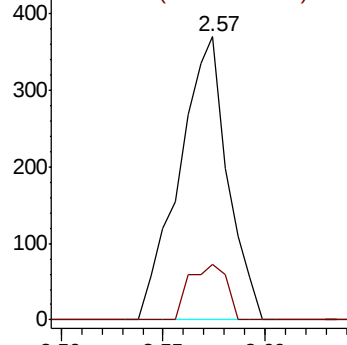
76 100

78 19.5 7.1 10.7#

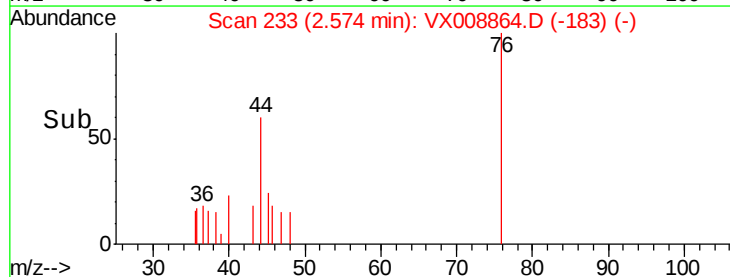


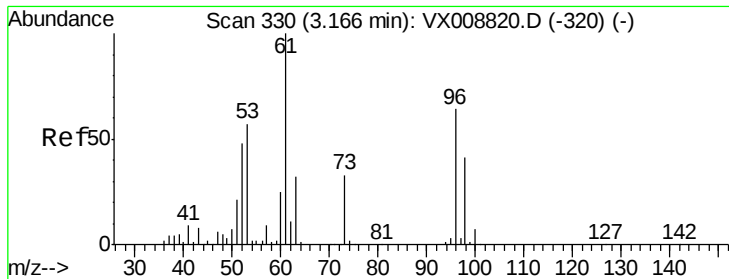
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.433 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

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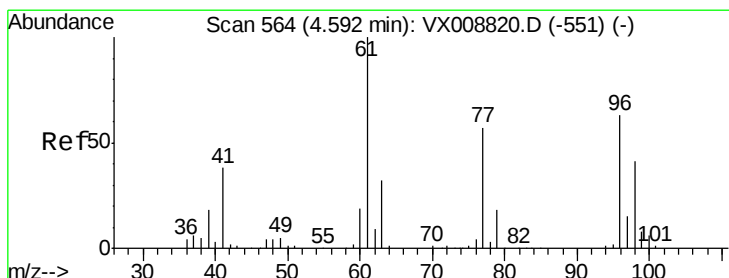
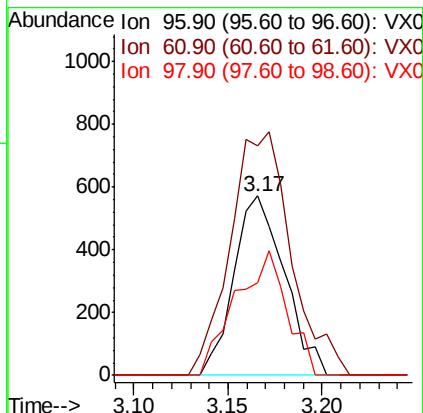
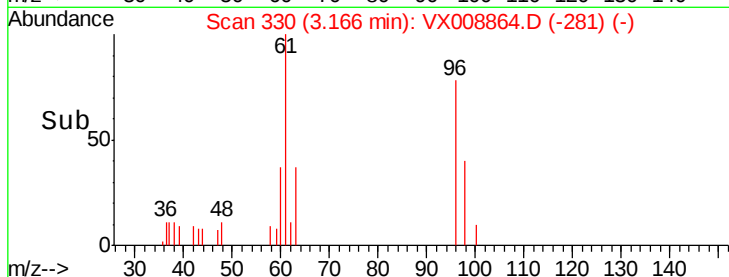
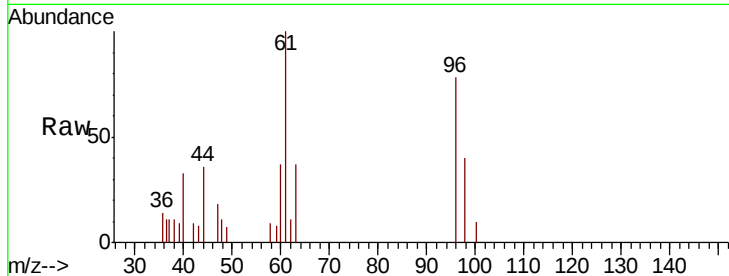
Tgt Ion: 96 Resp: 1065

Ion Ratio Lower Upper

96 100

61 128.0 132.1 198.1#

98 51.7 52.2 78.2#



#27

cis-1,2-Dichloroethene

Concen: 101.302 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

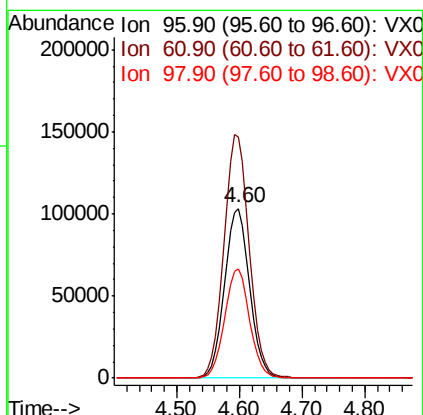
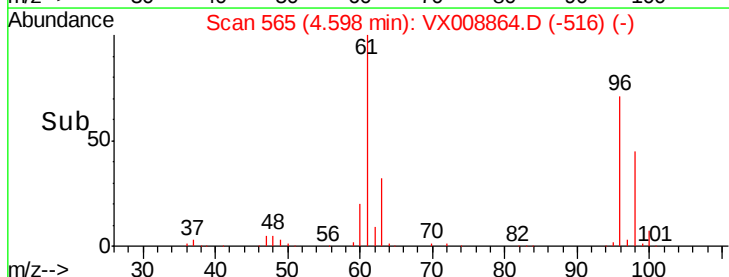
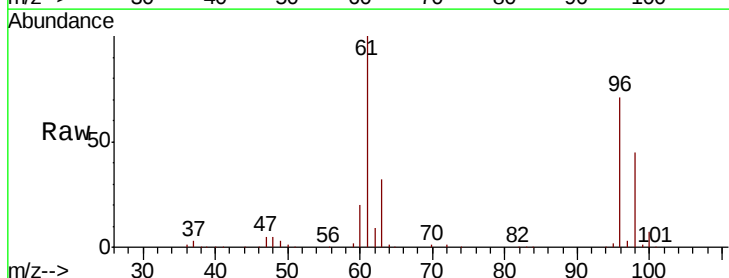
Tgt Ion: 96 Resp: 286309

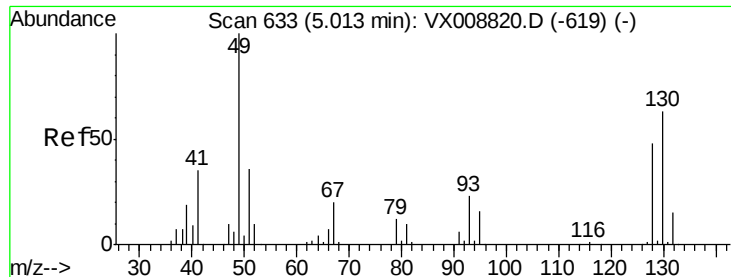
Ion Ratio Lower Upper

96 100

61 144.3 0.0 327.6

98 63.9 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

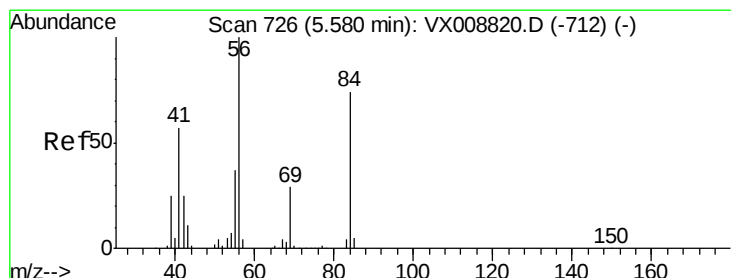
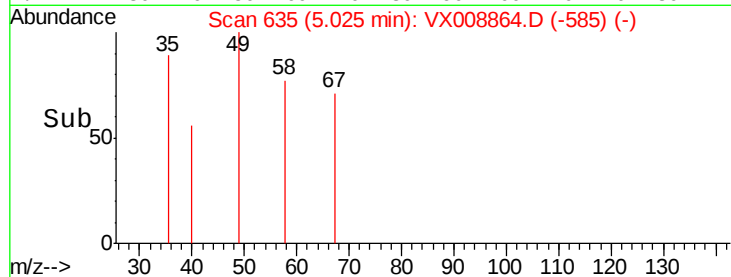
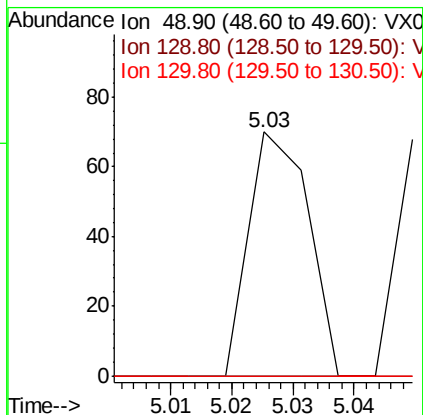
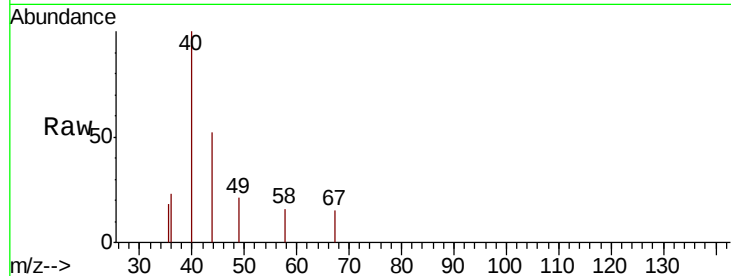
Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409

Tgt Ion:	49	Resp:	47
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



#31

Cyclohexane

Concen: 0.866 ug/l

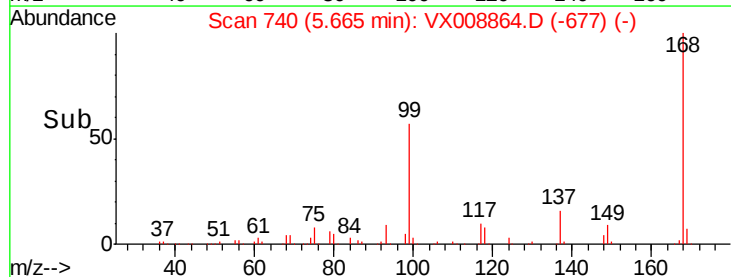
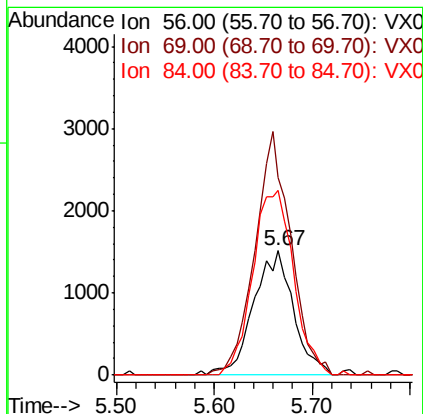
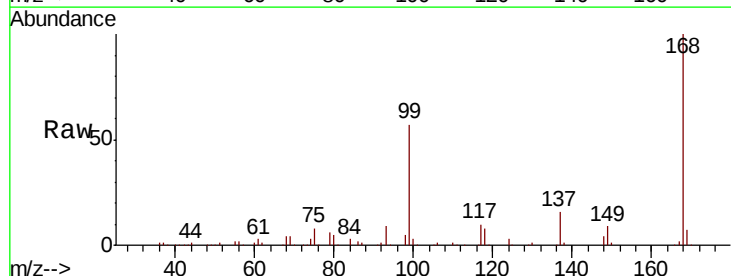
RT: 5.67 min Scan# 740

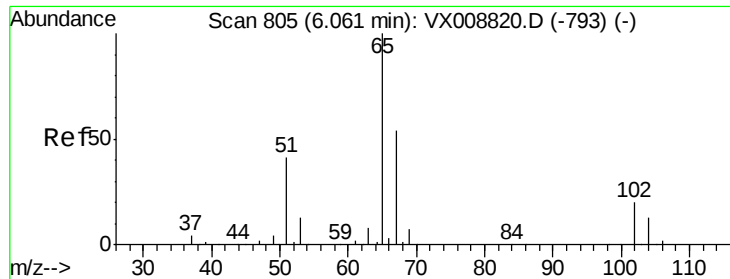
Delta R.T. 0.09 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Tgt Ion:	56	Resp:	4291
Ion	Ratio	Lower	Upper
56	100		
69	159.4	22.6	33.8#
84	149.2	59.3	88.9#

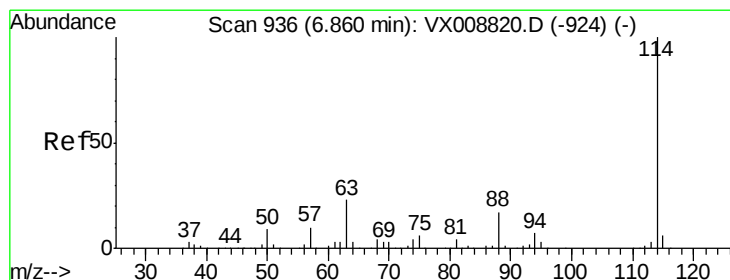
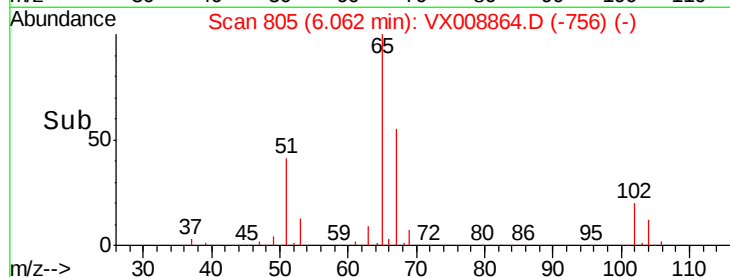
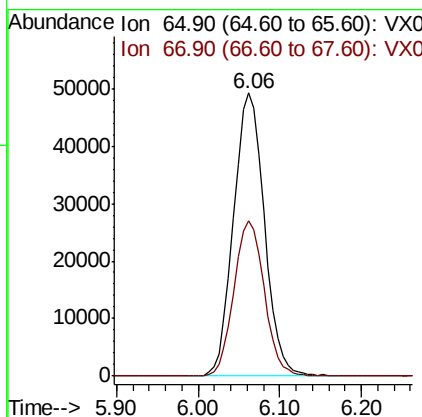
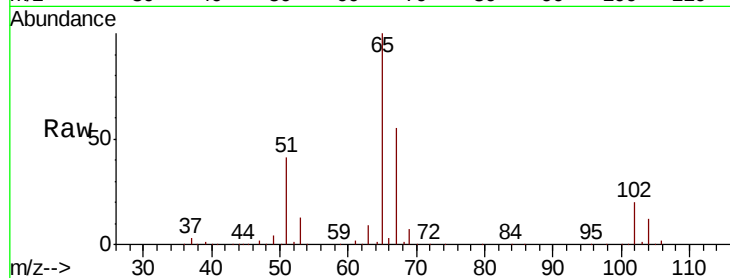




#33
 1,2-Dichloroethane-d4
 Concen: 44.931 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008864.D
 Acq: 11 Apr 2019 20:00

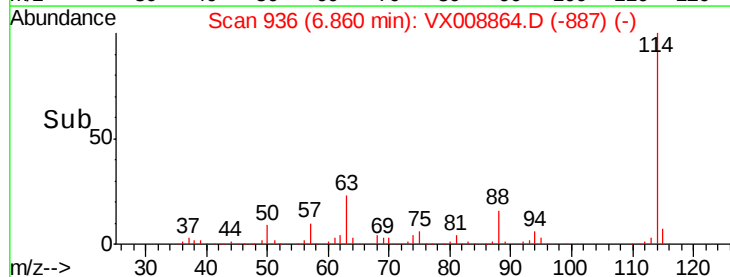
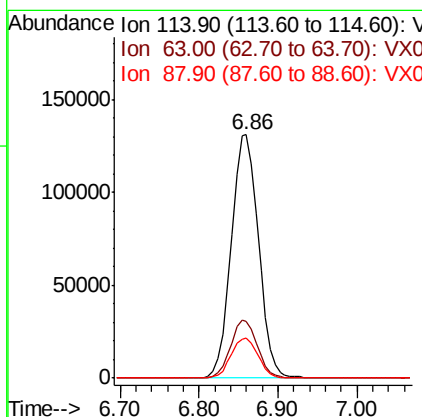
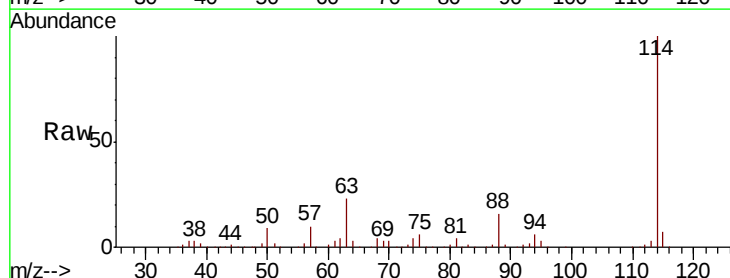
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW151-190409

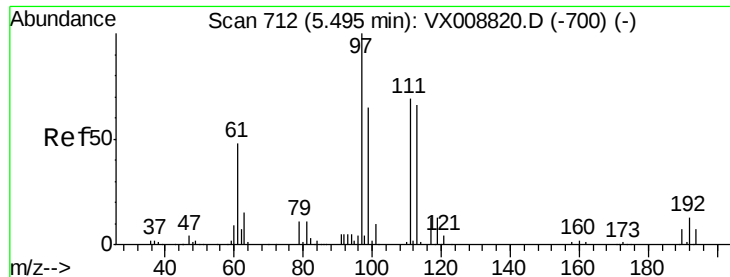
Tgt Ion: 65 Resp: 128828
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008864.D
 Acq: 11 Apr 2019 20:00

Tgt Ion: 114 Resp: 314952
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.2
 88 16.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.051 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409

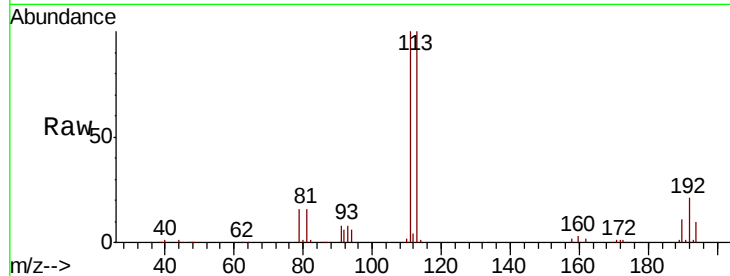
Tgt Ion:113 Resp: 94746

Ion Ratio Lower Upper

113 100

111 101.2 83.4 125.2

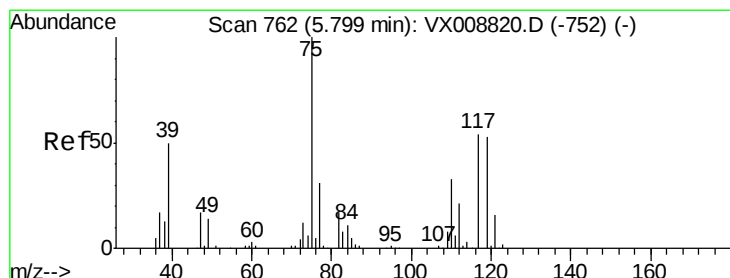
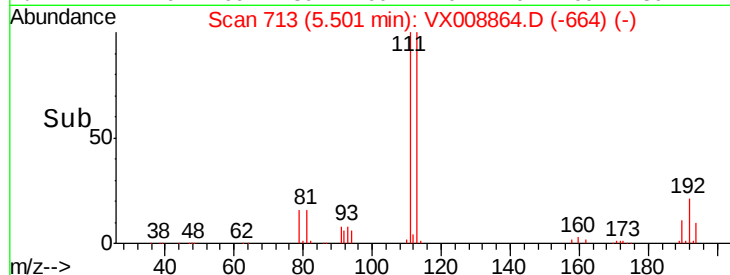
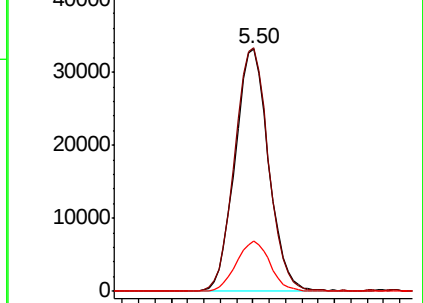
192 20.9 16.1 24.1



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: 4.616 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

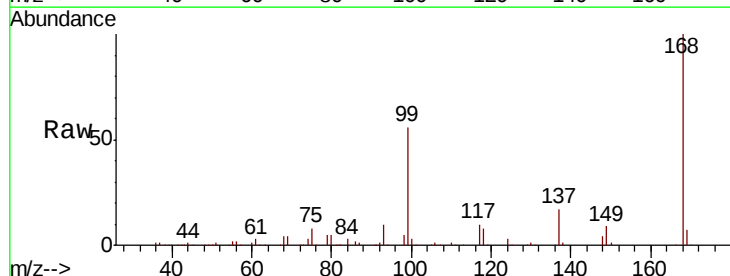
Tgt Ion: 75 Resp: 15893

Ion Ratio Lower Upper

75 100

110 8.4 16.4 49.2#

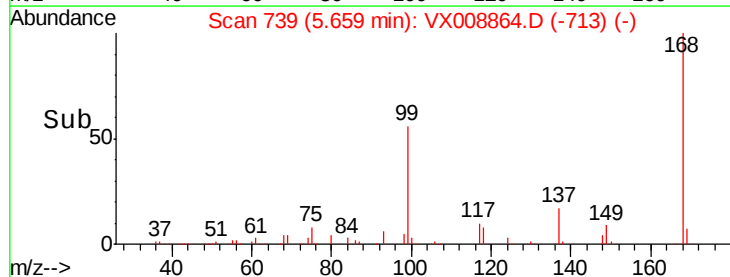
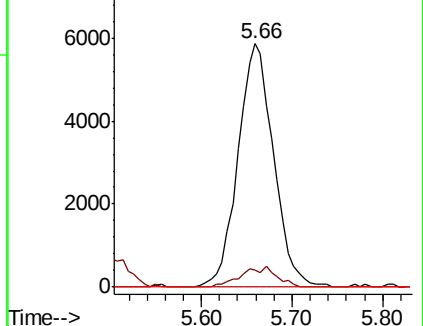
77 0.0 24.7 37.1#

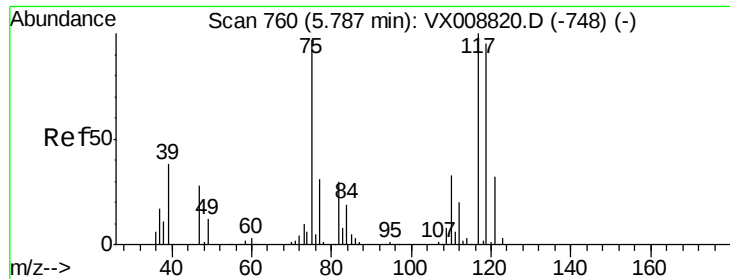


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.472 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409

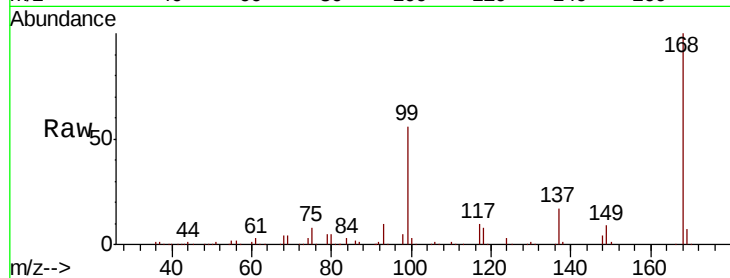
Tgt Ion:117 Resp: 18441

Ion Ratio Lower Upper

117 100

119 4.0 75.0 112.6#

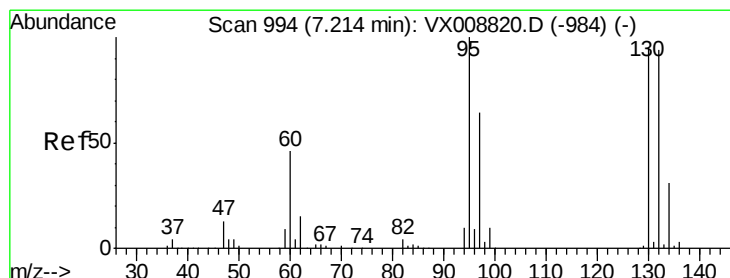
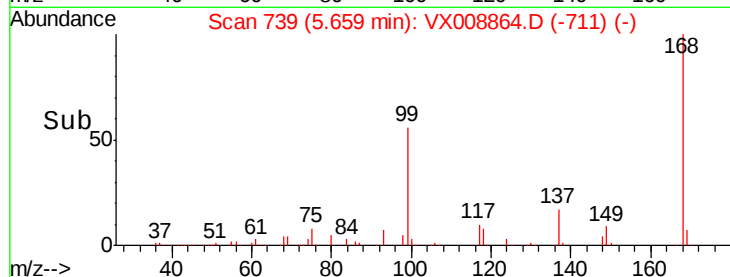
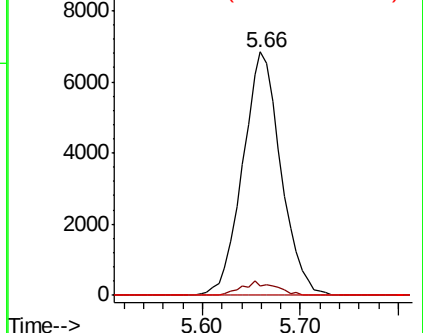
121 0.0 24.3 36.5#



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: 3.529 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008864.D

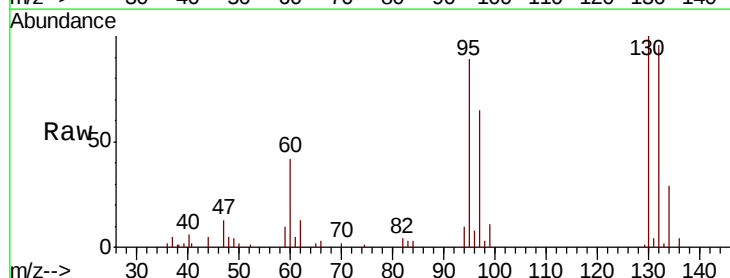
Acq: 11 Apr 2019 20:00

Tgt Ion:130 Resp: 8431

Ion Ratio Lower Upper

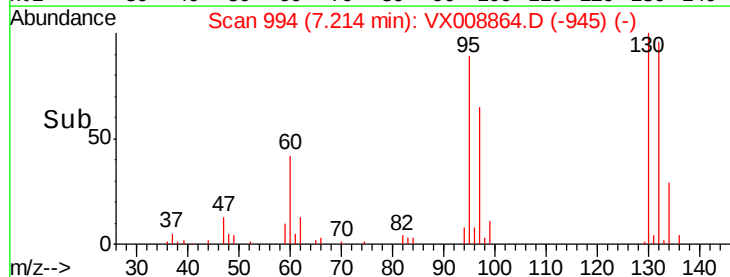
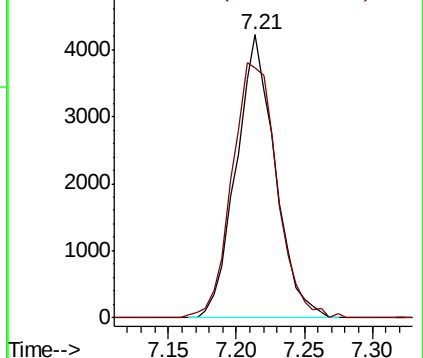
130 100

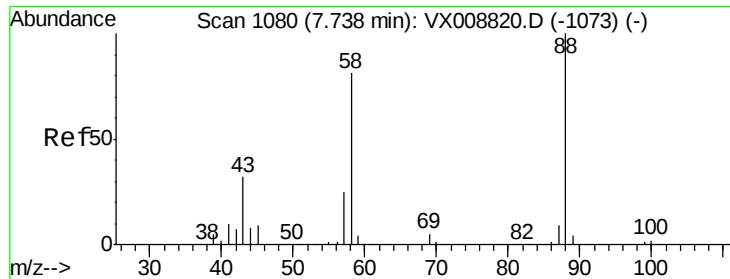
95 87.3 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

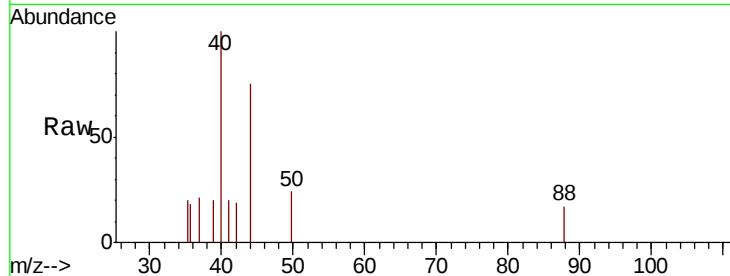




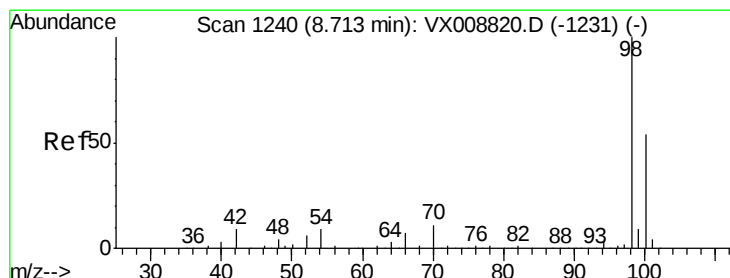
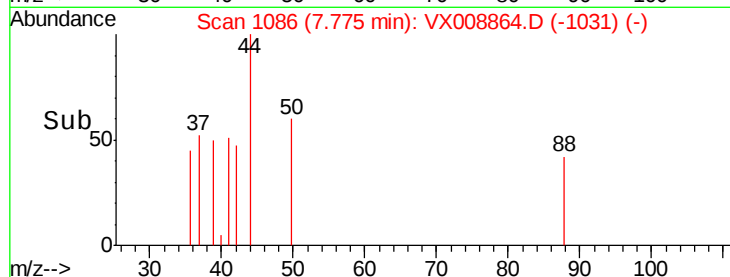
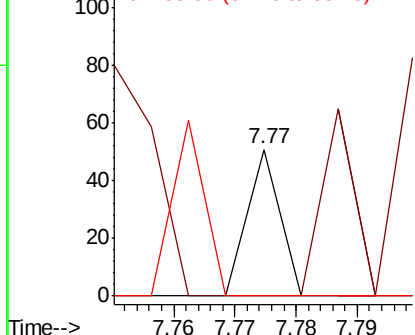
#49
1,4-Dioxane
Concen: 0.279 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.04 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-190409

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 126.3 28.6 43.0#
58 0.0 62.2 93.2#

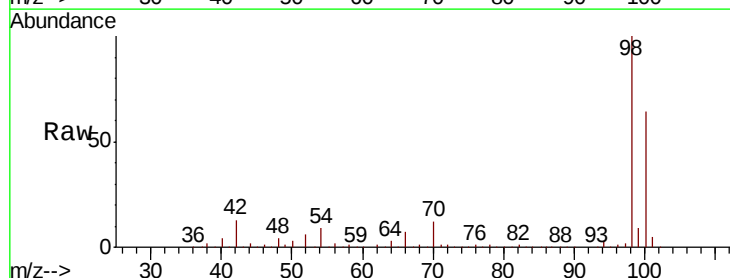


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

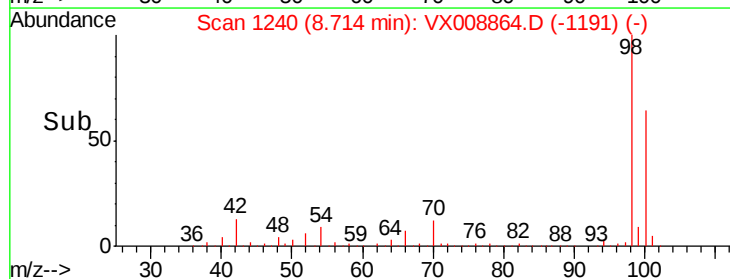
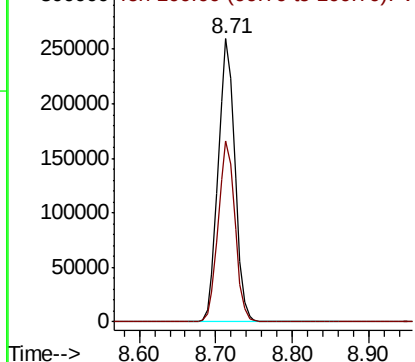


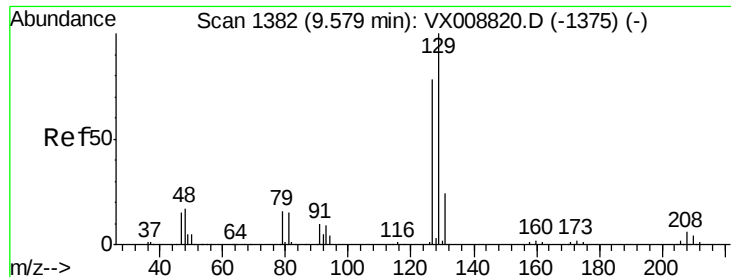
#50
Toluene-d8
Concen: 49.229 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

Tgt Ion: 98 Resp: 394712
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.757 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

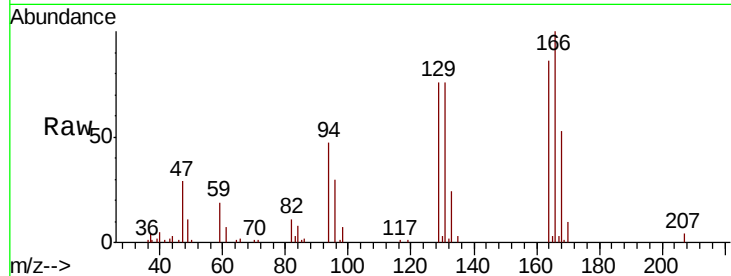
ST008MW151-190409

Tgt Ion: 129 Resp: 6305

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

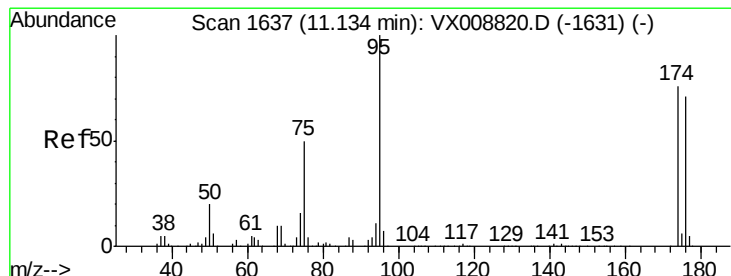
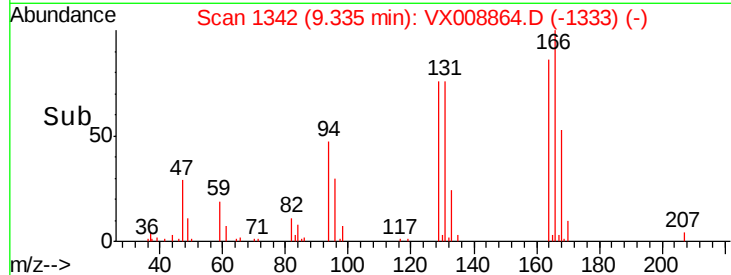
2000

1000

0

9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 46.652 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

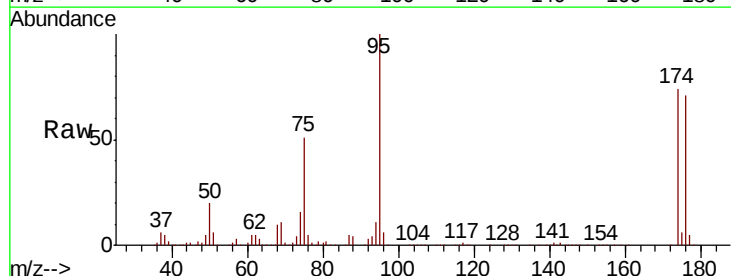
Tgt Ion: 95 Resp: 132646

Ion Ratio Lower Upper

95 100

174 78.5 0.0 151.8

176 76.1 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

150000

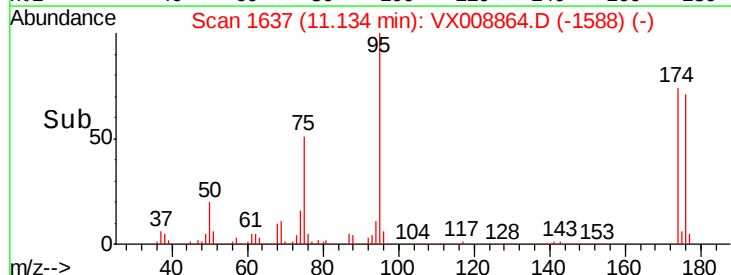
100000

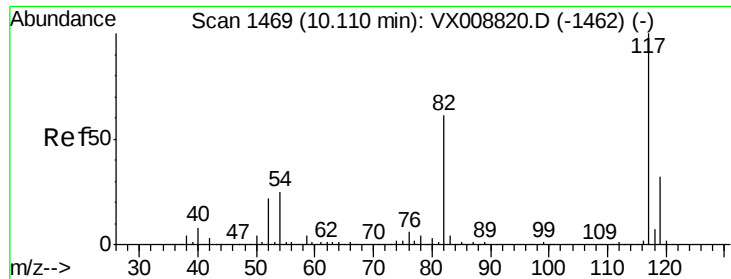
50000

0

11.10 11.20

Time-->

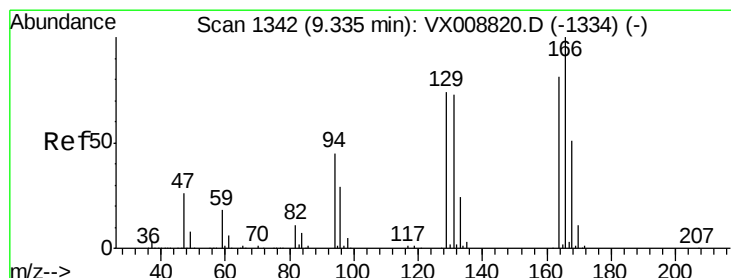
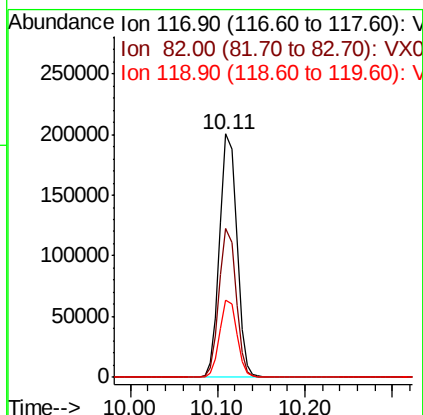
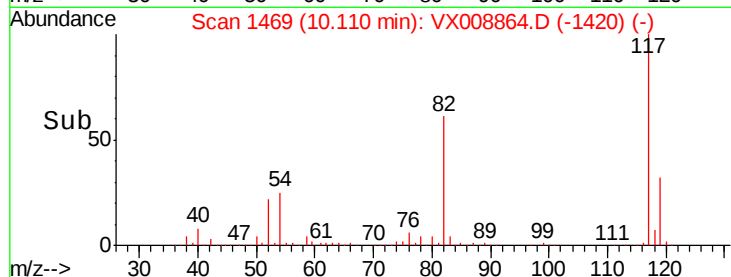
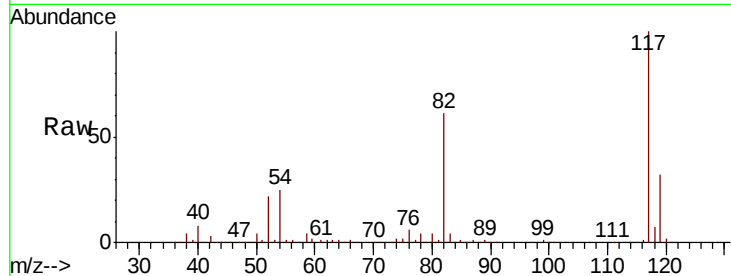




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

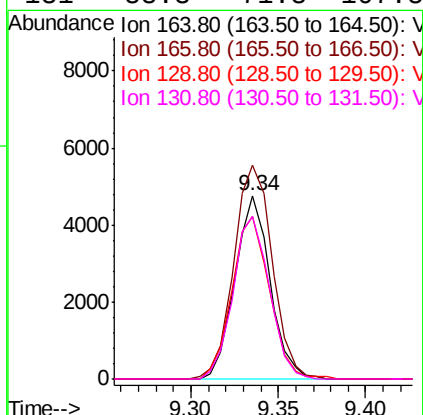
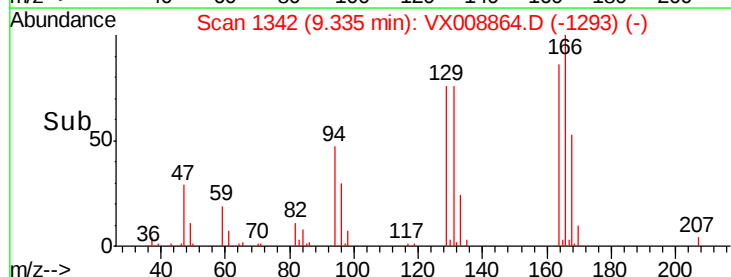
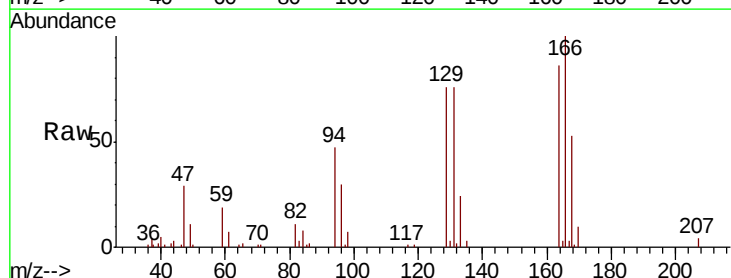
Instrument :
MSVOA_X
ClientSampleId :
ST008MW151-190409

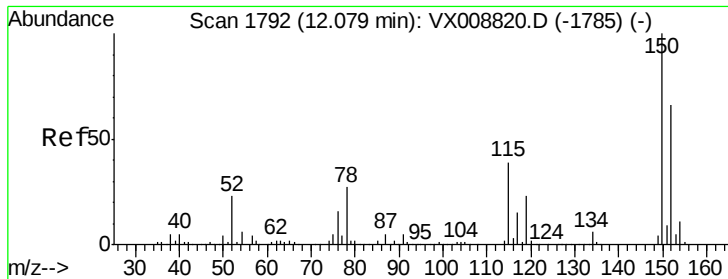
Tgt Ion:117 Resp: 273901
Ion Ratio Lower Upper
117 100
82 61.2 49.6 74.4
119 31.6 25.0 37.4



#64
Tetrachloroethene
Concen: 3.277 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008864.D
Acq: 11 Apr 2019 20:00

Tgt Ion:164 Resp: 6651
Ion Ratio Lower Upper
164 100
166 116.5 101.0 151.6
129 88.9 75.8 113.8
131 88.3 71.8 107.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409

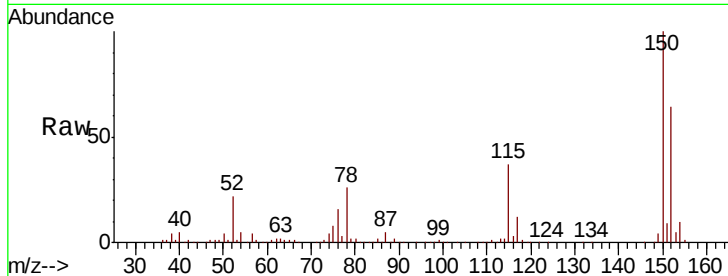
Tgt Ion:152 Resp: 116431

Ion Ratio Lower Upper

152 100

115 60.0 43.5 130.5

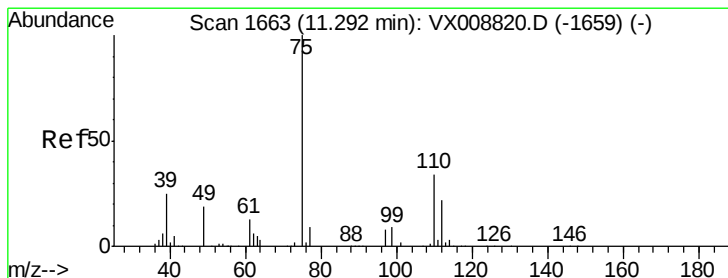
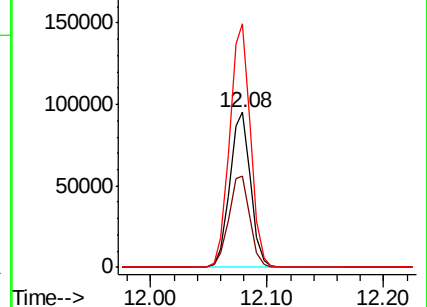
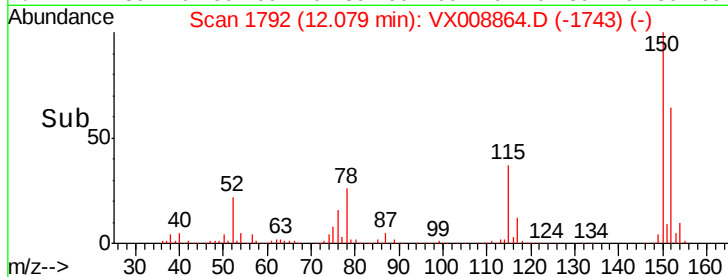
150 157.9 0.0 348.8



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: 21.286 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008864.D

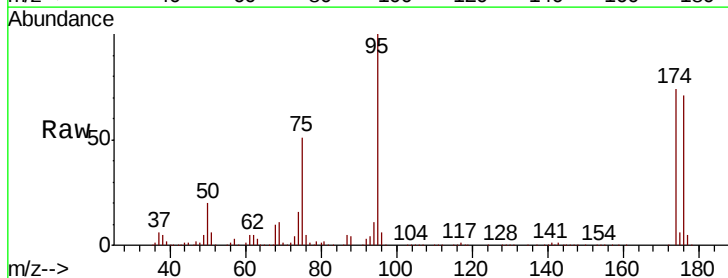
Acq: 11 Apr 2019 20:00

Tgt Ion: 75 Resp: 68084

Ion Ratio Lower Upper

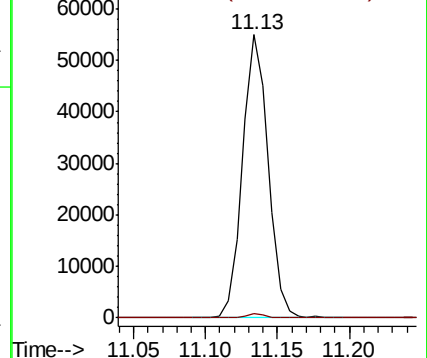
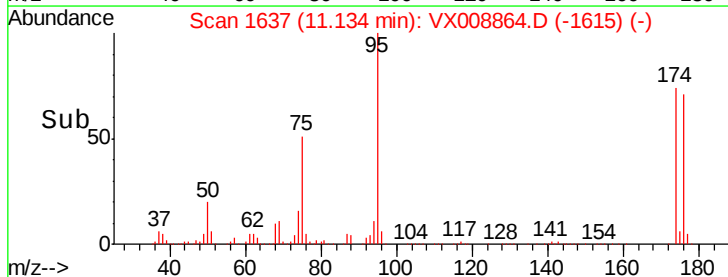
75 100

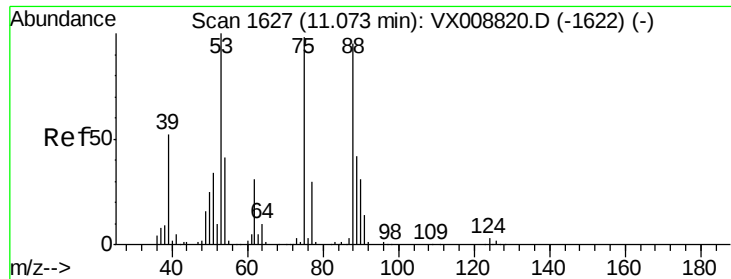
77 1.3 22.3 66.8#



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: 58.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008864.D

Acq: 11 Apr 2019 20:00

Instrument :

MSVOA_X

ClientSampleId :

ST008MW151-190409

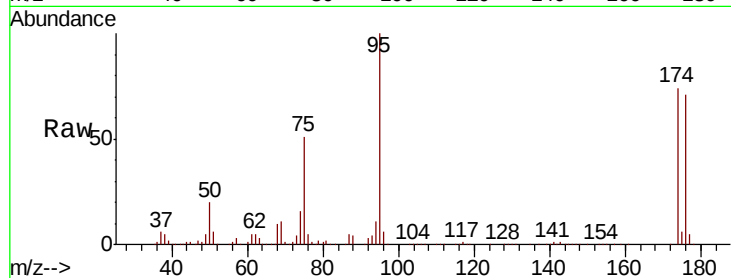
Tgt Ion: 75 Resp: 68084

Ion Ratio Lower Upper

75 100

53 0.0 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

