

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011371.D
 Acq On : 07 Aug 2019 18:28
 Operator : JC/SP
 Sample : K4220-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-25S_080619

Quant Time: Aug 08 07:06:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	157306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	256714	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	115263	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	92325	58.28	ug/l	0.00
Spiked Amount			Recovery	=	116.56%	
35) Dibromofluoromethane	5.49	113	82753	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
50) Toluene-d8	8.71	98	316426	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.13	95	113532	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	

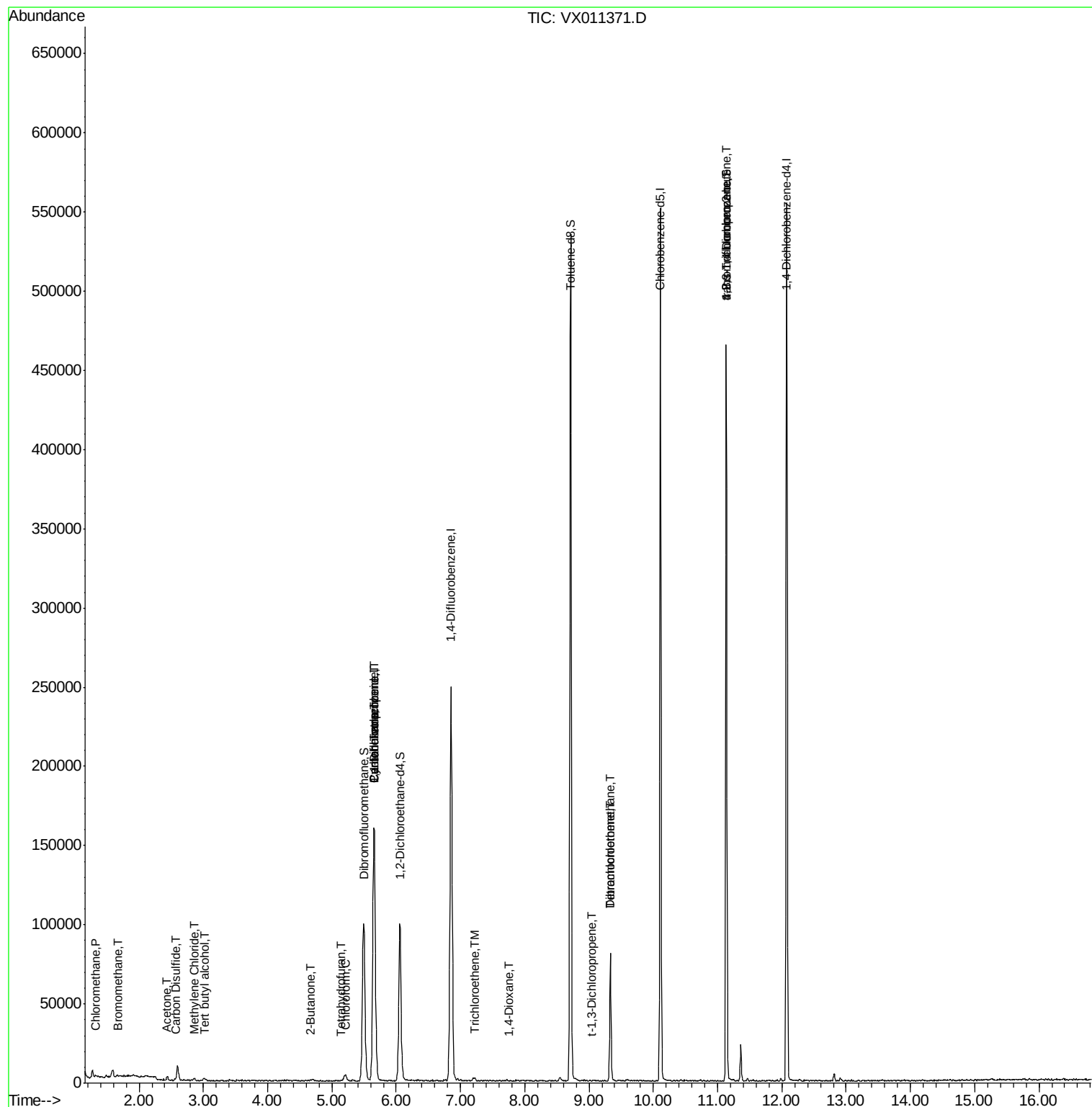
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	707	0.518	ug/l	97
5) Bromomethane	1.67	94	370	0.346	ug/l #	53
6) Chloroethane	1.73	64	203	Below Cal	#	43
11) Tert butyl alcohol	3.02	59	1287	4.097	ug/l #	76
13) Acrolein	2.29	56	64	Below Cal	#	46
16) Acetone	2.43	43	2887	3.829	ug/l	96
17) Carbon Disulfide	2.56	76	785	0.234	ug/l #	85
20) Methylene Chloride	2.86	84	576	0.349	ug/l #	71
25) 2-Butanone	4.67	43	233	0.217	ug/l #	46
29) Tetrahydrofuran	5.13	42	251	0.382	ug/l #	55
30) Chloroform	5.21	83	4151	1.545	ug/l	99
31) Cyclohexane	5.65	56	3529	1.730	ug/l #	35
36) 1,1-Dichloropropene	5.65	75	10782	4.810	ug/l #	43
38) Carbon Tetrachloride	5.65	117	14704	6.521	ug/l #	14
44) Trichloroethene	7.23	130	782	0.386	ug/l	70
49) 1,4-Dioxane	7.74	88	19	0.387	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	44	2.855	ug/l #	43
60) Dibromochloromethane	9.33	129	11369	6.107	ug/l #	10
64) Tetrachloroethene	9.34	164	12488	5.940	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	57393	27.342	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	57393	70.927	ug/l #	10

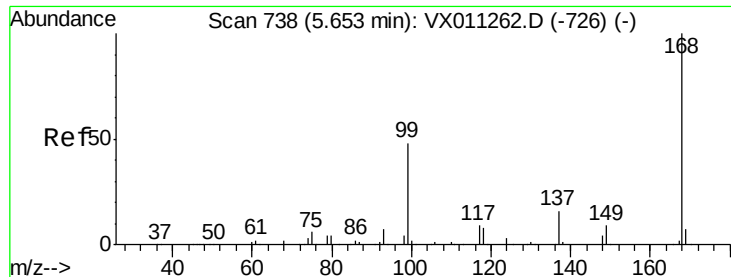
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

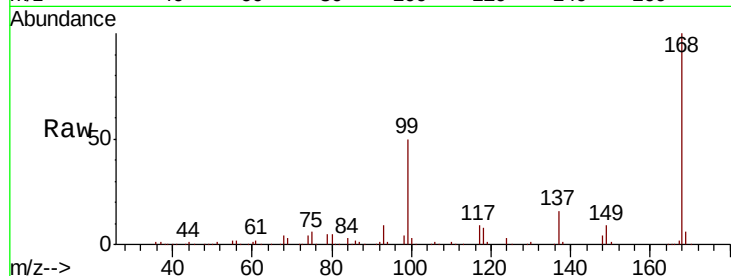
MW-25S_080619

Tgt Ion:168 Resp: 157306

Ion Ratio Lower Upper

168 100

99 49.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

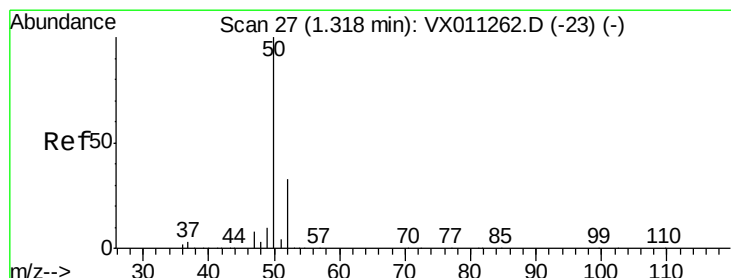
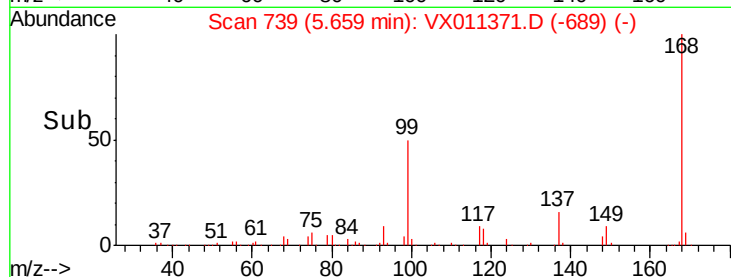
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.518 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011371.D

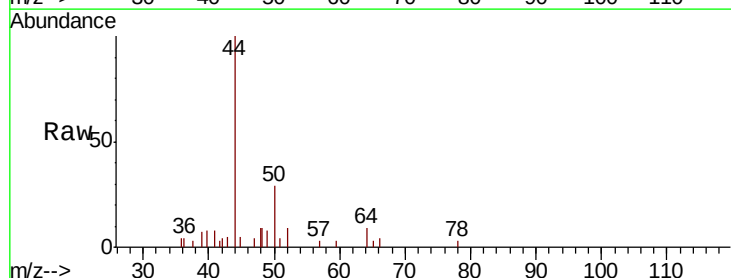
Acq: 07 Aug 2019 18:28

Tgt Ion: 50 Resp: 707

Ion Ratio Lower Upper

50 100

52 31.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

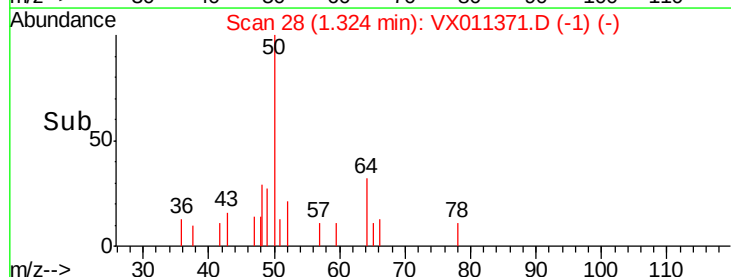
300

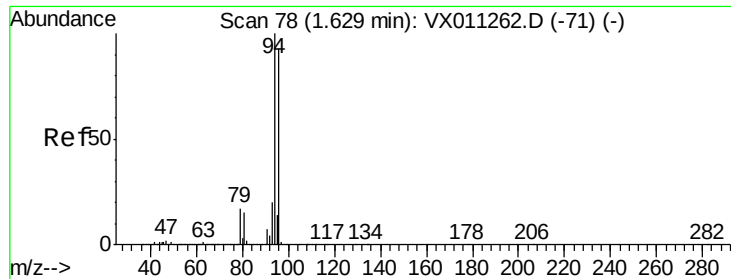
200

100

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.346 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.04 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

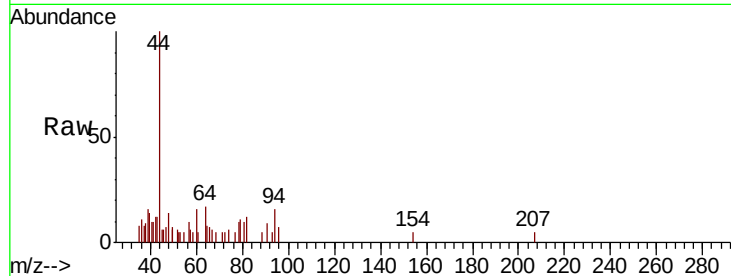
MW-25S_080619

Tgt Ion: 94 Resp: 370

Ion Ratio Lower Upper

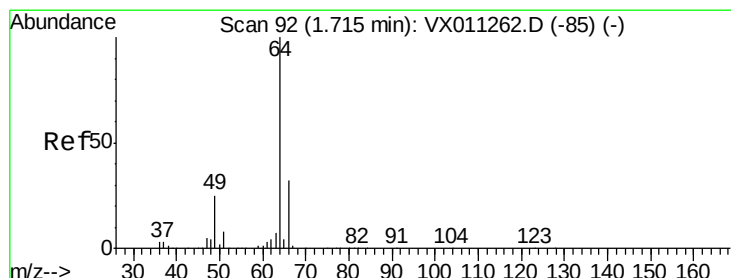
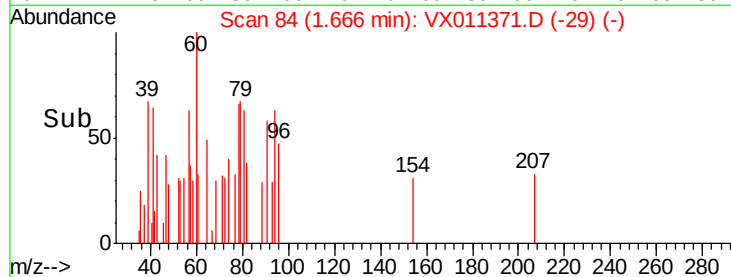
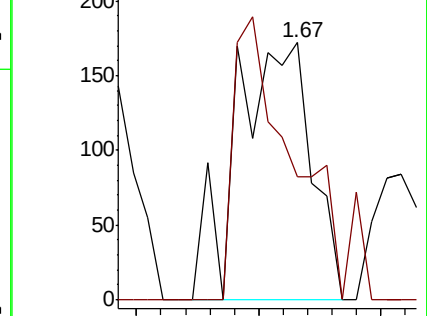
94 100

96 47.7 74.6 112.0#



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: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011371.D

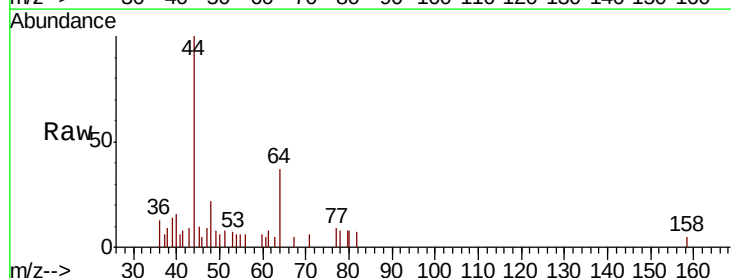
Acq: 07 Aug 2019 18:28

Tgt Ion: 64 Resp: 203

Ion Ratio Lower Upper

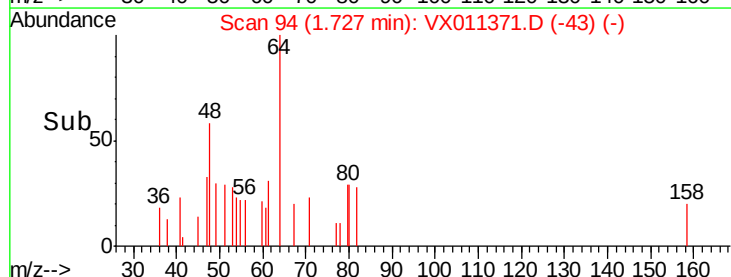
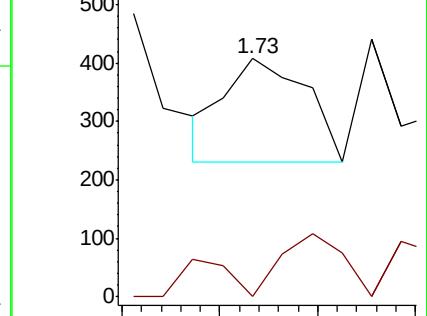
64 100

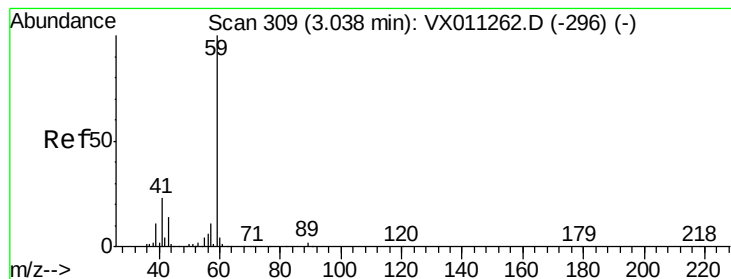
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 4.097 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

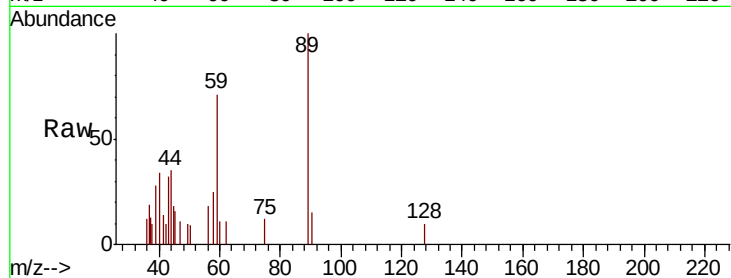
MW-25S_080619

Tgt Ion: 59 Resp: 1287

Ion Ratio Lower Upper

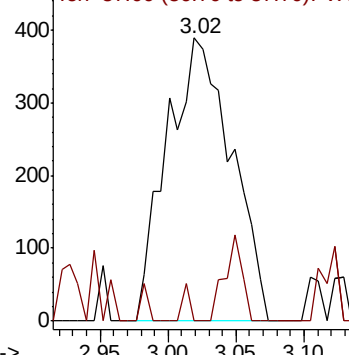
59 100

57 1.5 8.3 12.5#

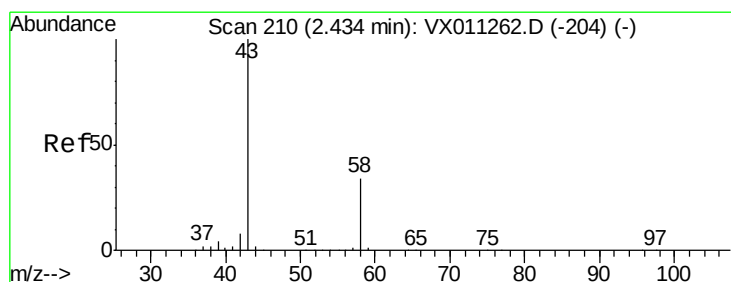
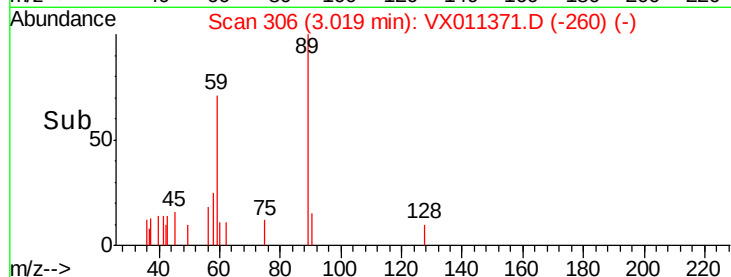


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#16

Acetone

Concen: 3.829 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011371.D

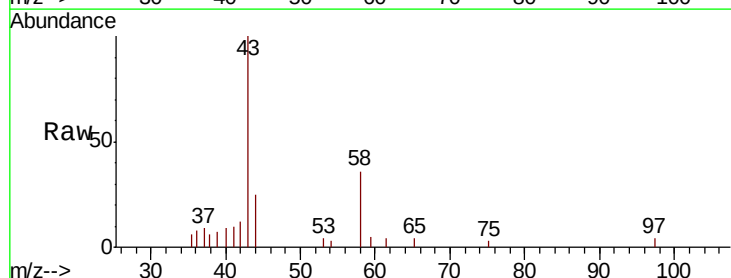
Acq: 07 Aug 2019 18:28

Tgt Ion: 43 Resp: 2887

Ion Ratio Lower Upper

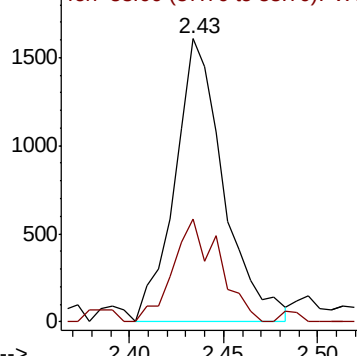
43 100

58 36.3 27.4 41.0

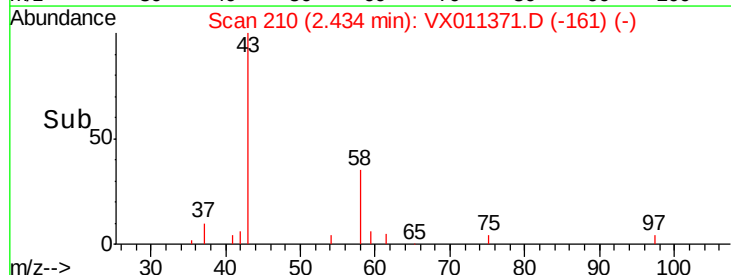


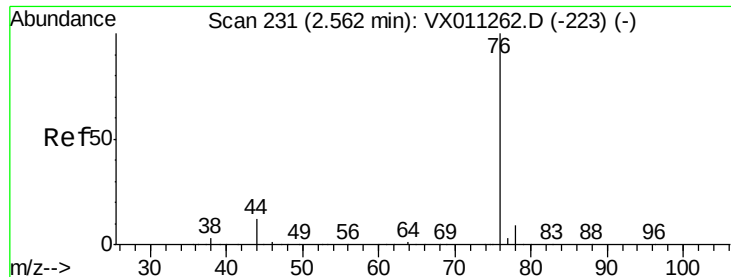
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.234 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

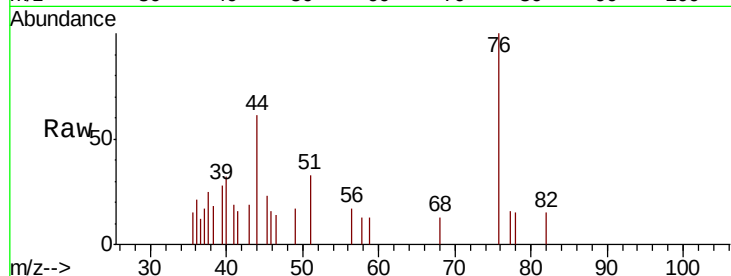
MW-25S_080619

Tgt Ion: 76 Resp: 785

Ion Ratio Lower Upper

76 100

78 14.8 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

300

200

100

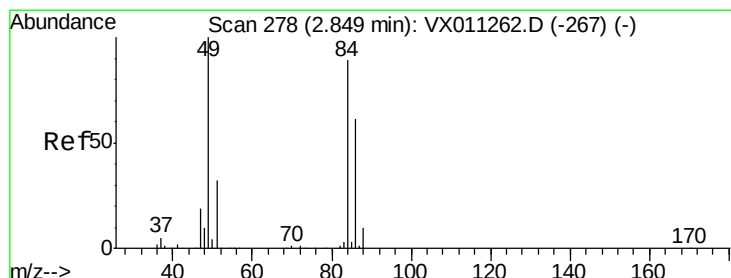
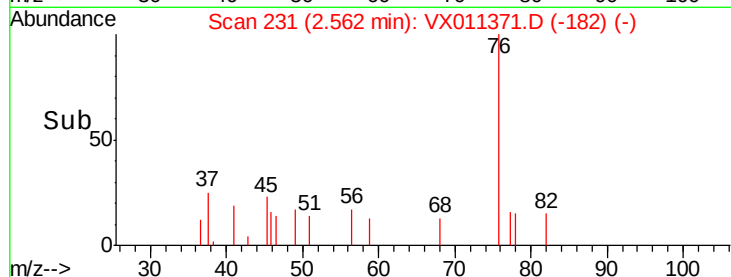
0

2.55

2.56

2.57

Time-->



#20

Methylene Chloride

Concen: 0.349 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Tgt Ion: 84 Resp: 576

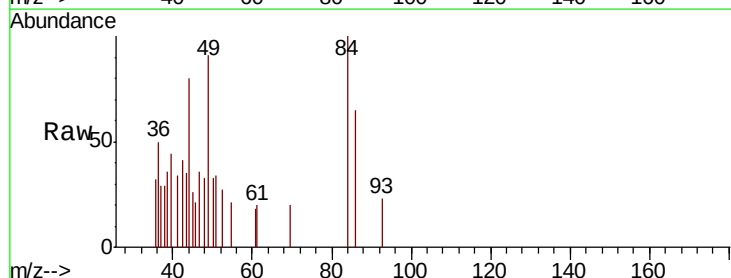
Ion Ratio Lower Upper

84 100

49 66.2 89.3 133.9#

51 14.9 28.3 42.5#

86 64.8 54.5 81.7



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

2.86

400

300

200

100

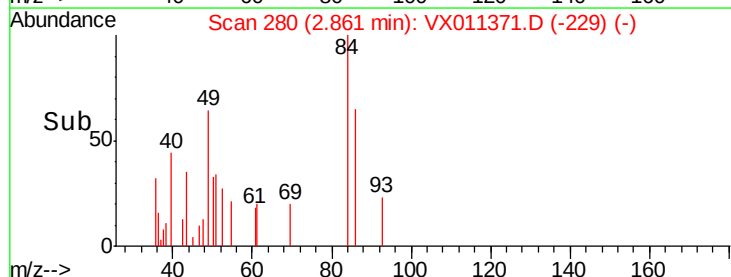
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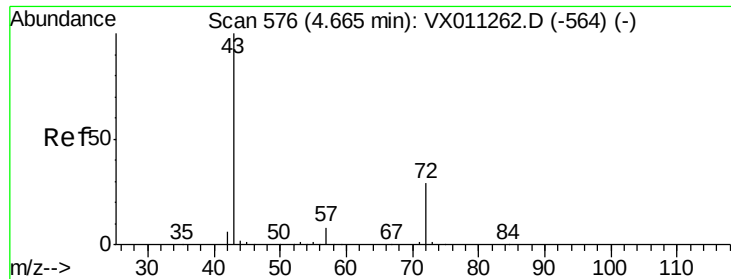
2.80

2.85

2.90

Time-->





#25

2-Butanone

Concen: 0.217 ug/l

RT: 4.67 min Scan# 576

Delta R.T. -0.00 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

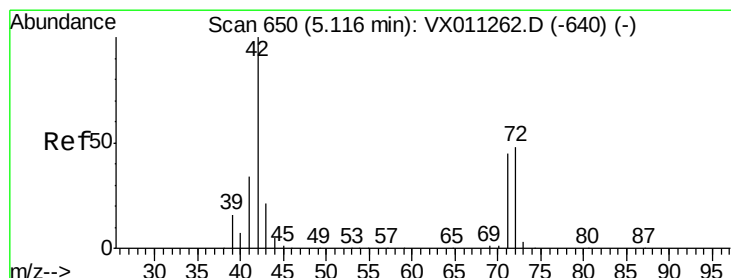
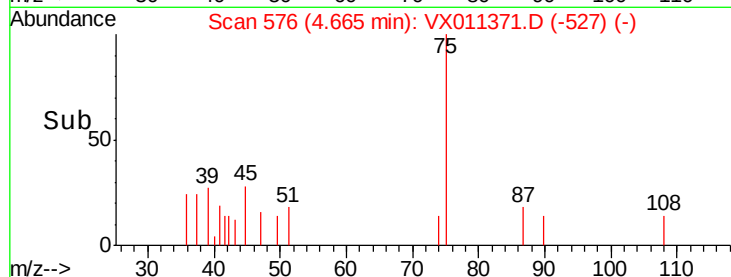
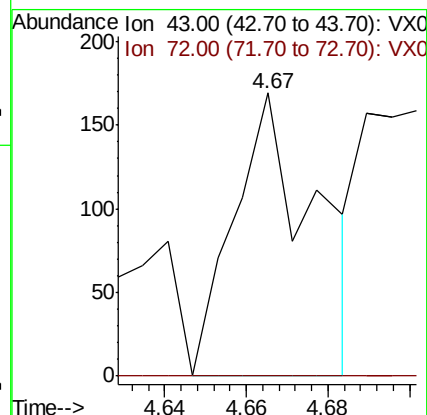
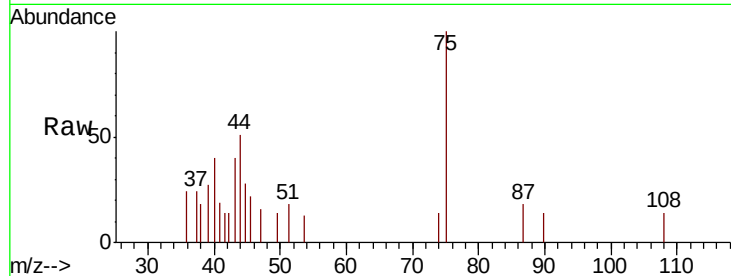
MW-25S_080619

Tgt Ion: 43 Resp: 233

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



#29

Tetrahydrofuran

Concen: 0.382 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

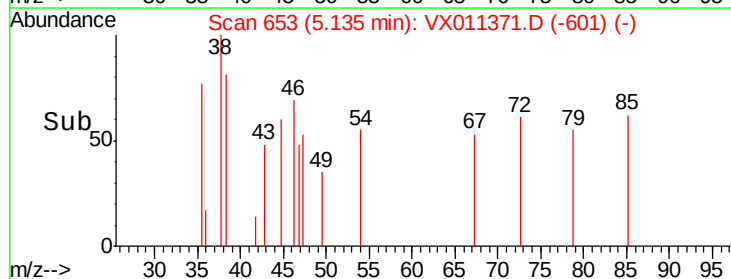
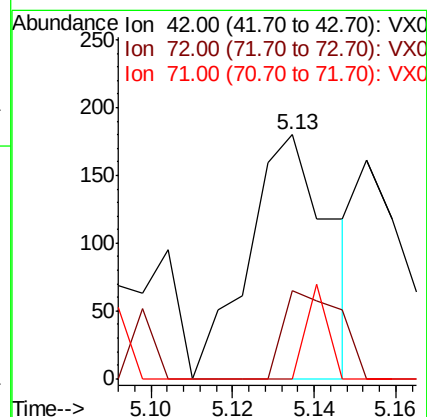
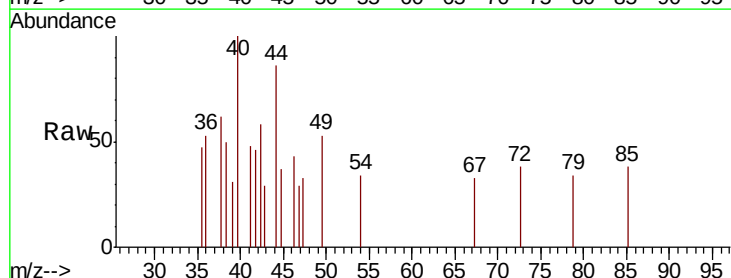
Tgt Ion: 42 Resp: 251

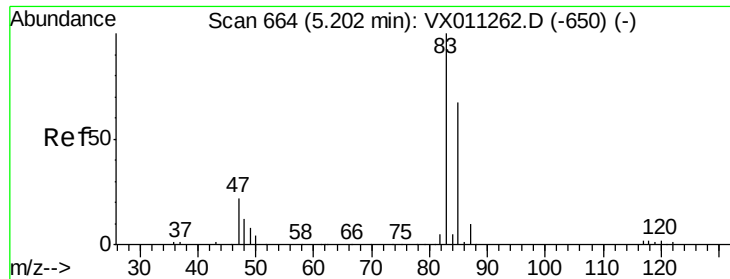
Ion Ratio Lower Upper

42 100

72 25.1 39.9 59.9#

71 10.4 36.9 55.3#

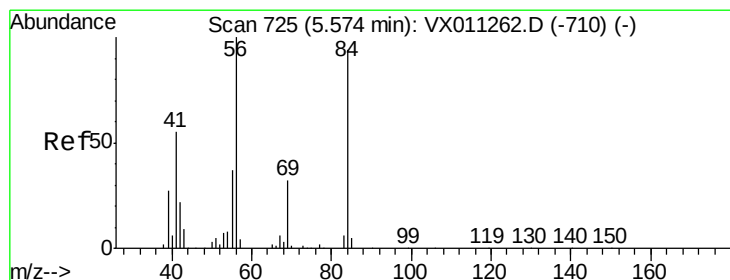
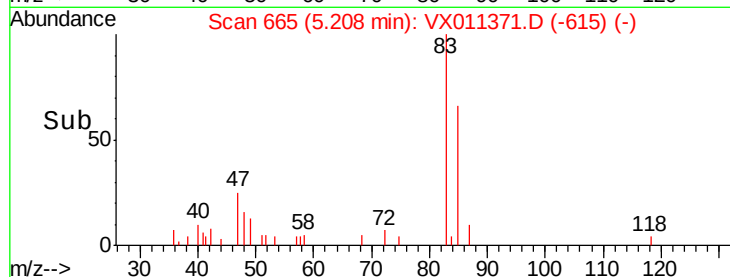
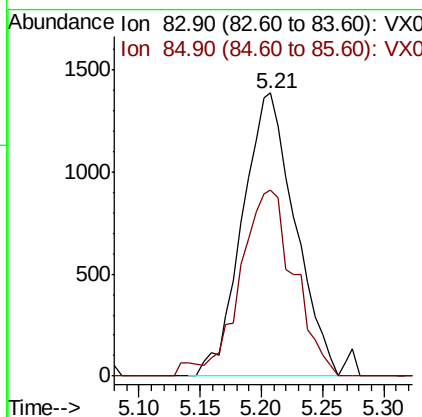
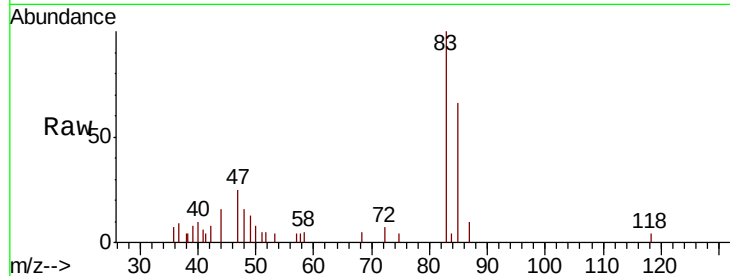




#30
Chloroform
Concen: 1.545 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.01 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

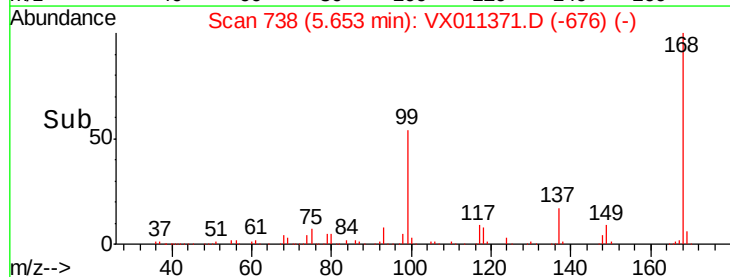
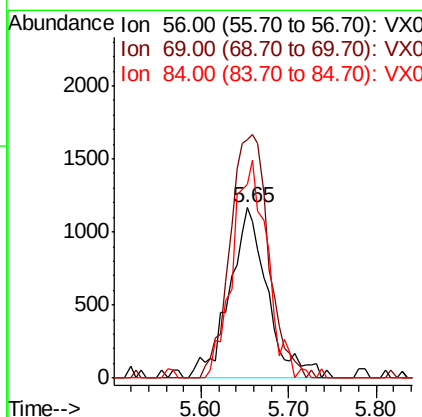
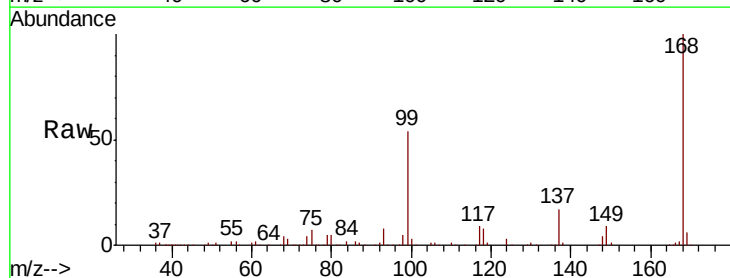
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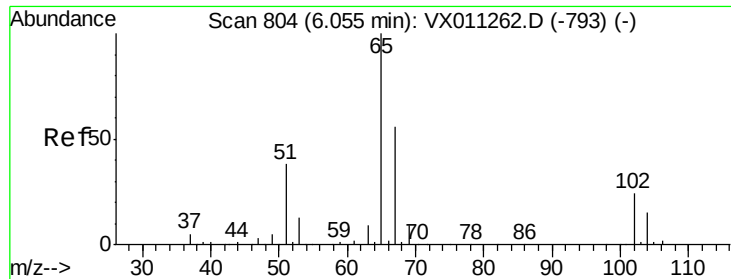
Tgt Ion: 83 Resp: 4151
Ion Ratio Lower Upper
83 100
85 65.9 53.4 80.0



#31
Cyclohexane
Concen: 1.730 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

Tgt Ion: 56 Resp: 3529
Ion Ratio Lower Upper
56 100
69 140.0 25.5 38.3#
84 113.4 75.0 112.4#

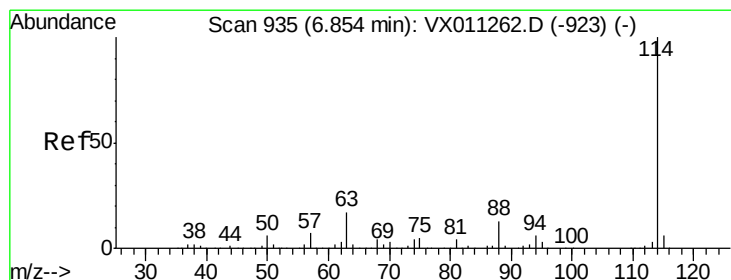
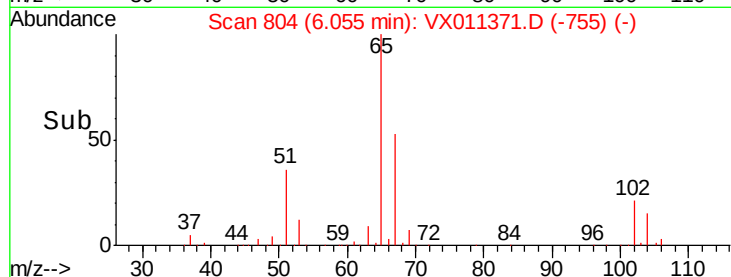
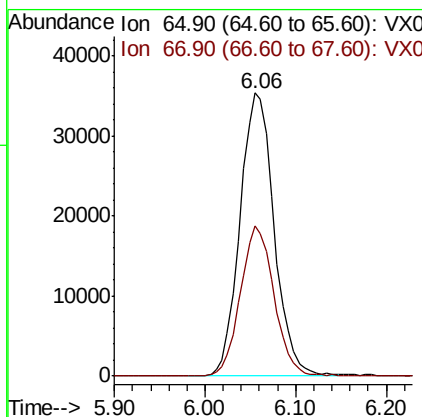
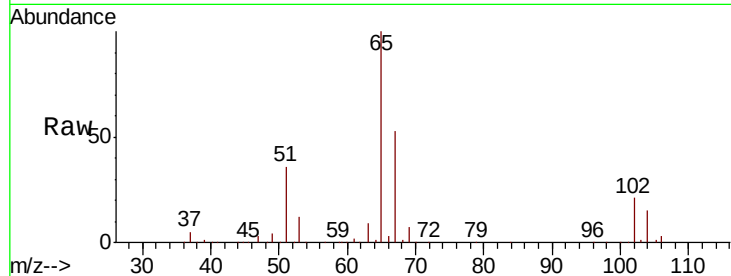




#33
 1,2-Dichloroethane-d4
 Concen: 58.280 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011371.D
 Acq: 07 Aug 2019 18:28

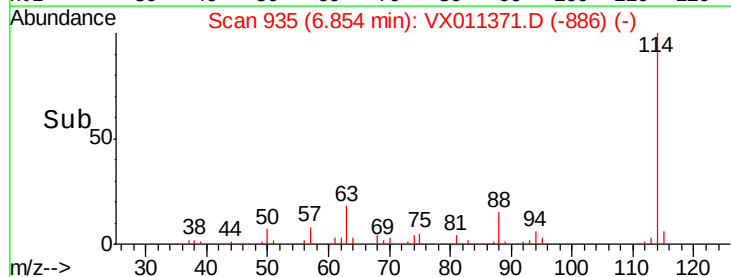
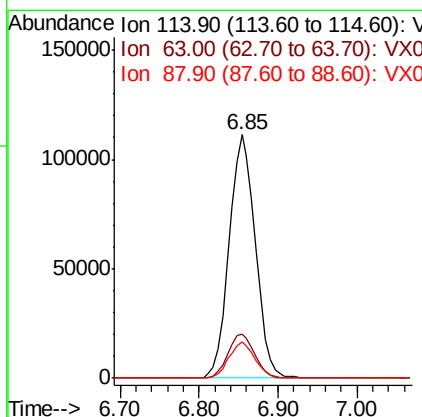
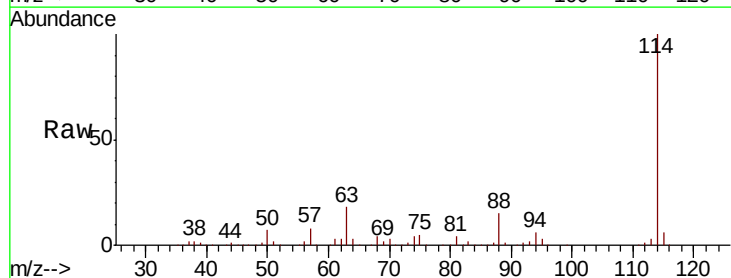
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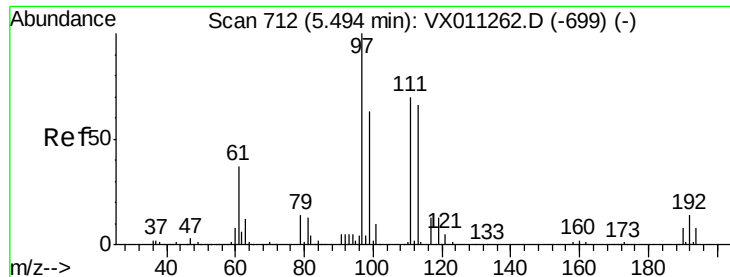
Tgt Ion: 65 Resp: 92325
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011371.D
 Acq: 07 Aug 2019 18:28

Tgt Ion: 114 Resp: 256714
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.0
 88 15.0 0.0 26.4

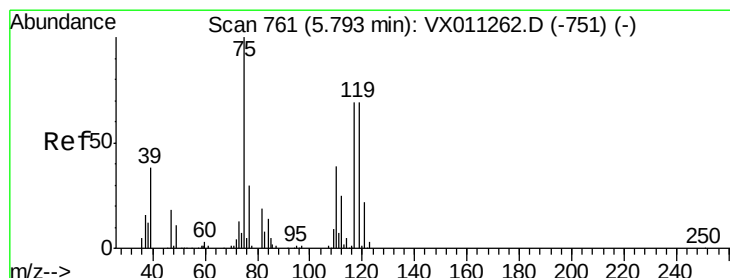
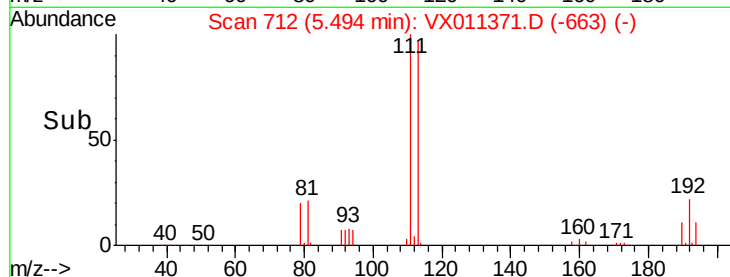
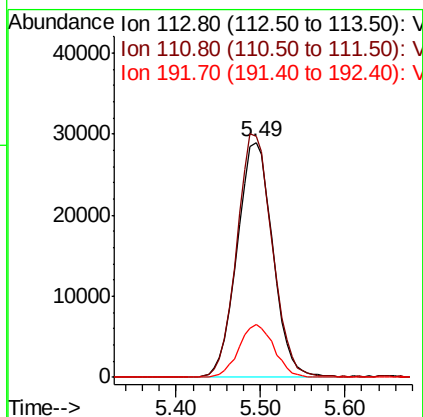
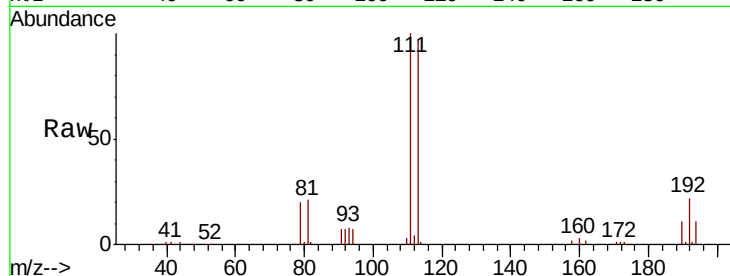




#35
 Dibromofluoromethane
 Concen: 49.374 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011371.D
 Acq: 07 Aug 2019 18:28

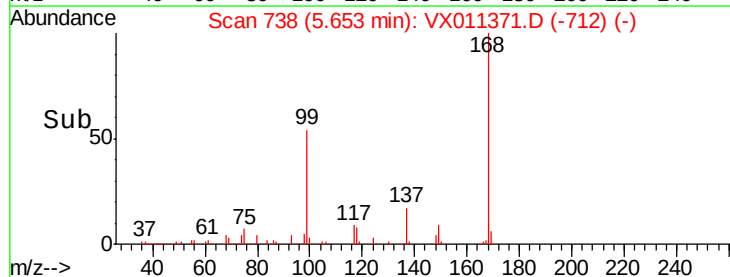
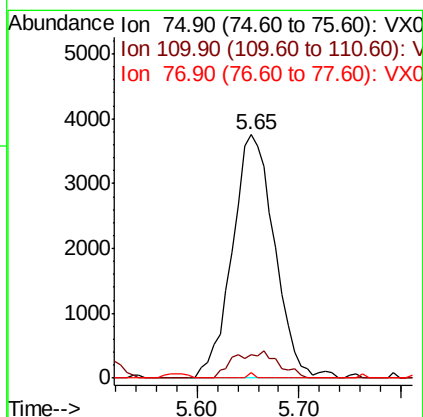
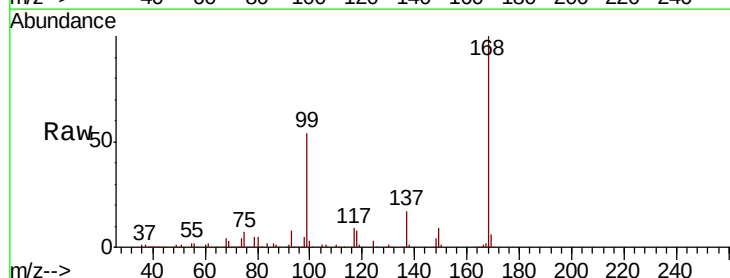
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-25S_080619

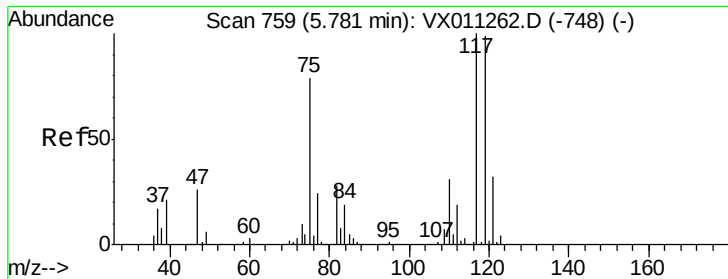
Tgt Ion:113 Resp: 82753
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.9 122.9
 192 22.3 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 4.810 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011371.D
 Acq: 07 Aug 2019 18:28

Tgt Ion: 75 Resp: 10782
 Ion Ratio Lower Upper
 75 100
 110 4.3 20.0 59.9#
 77 0.3 24.8 37.2#

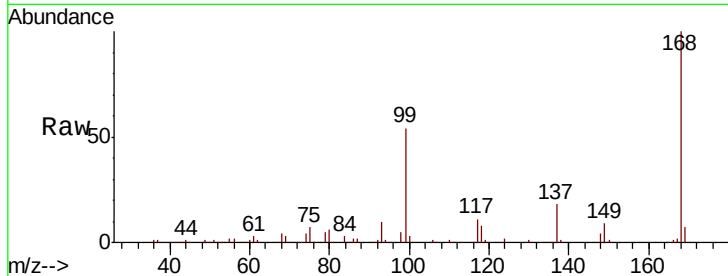




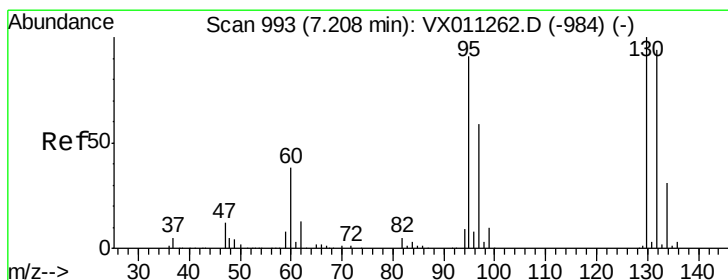
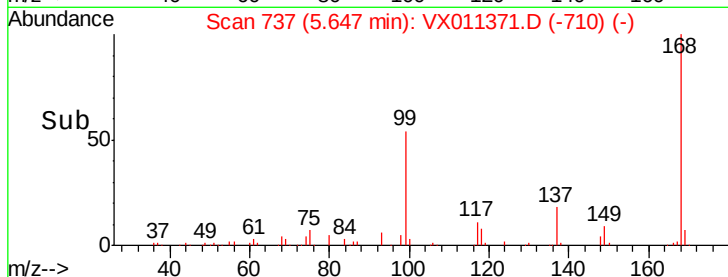
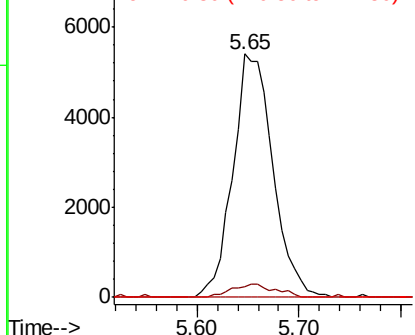
#38
Carbon Tetrachloride
Concen: 6.521 ug/l
RT: 5.65 min Scan# 737
Delta R.T. -0.13 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

Instrument :
MSVOA_X
ClientSampleId :
MW-25S_080619

Tgt Ion:117 Resp: 14704
Ion Ratio Lower Upper
117 100
119 4.5 79.0 118.4#
121 0.0 25.9 38.9#

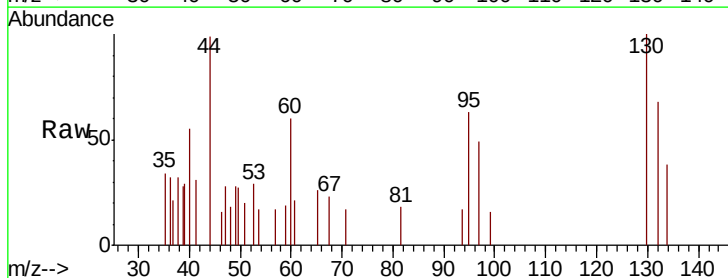


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

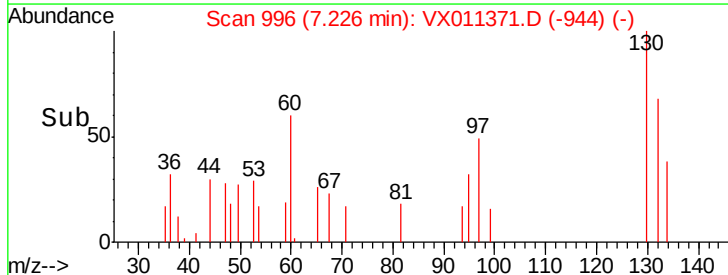
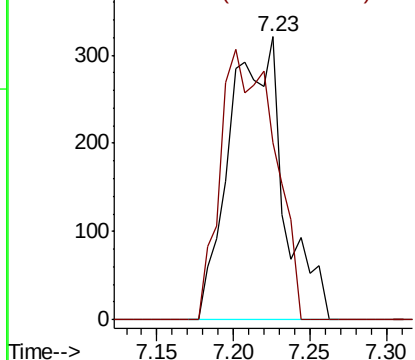


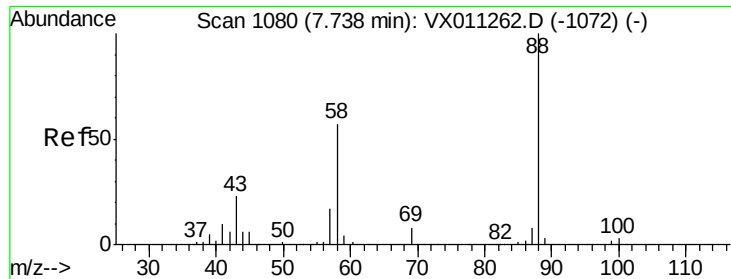
#44
Trichloroethene
Concen: 0.386 ug/l
RT: 7.23 min Scan# 996
Delta R.T. 0.02 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

Tgt Ion:130 Resp: 782
Ion Ratio Lower Upper
130 100
95 62.6 0.0 182.6



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

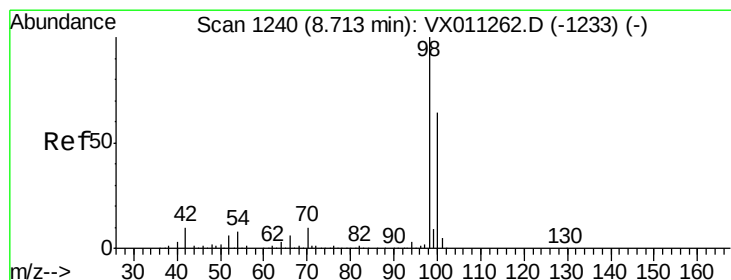
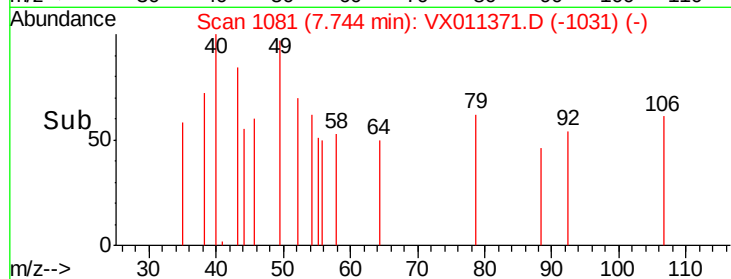
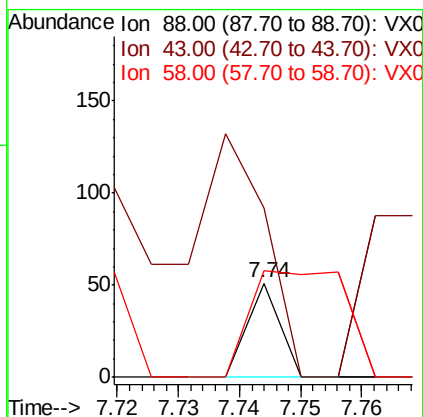
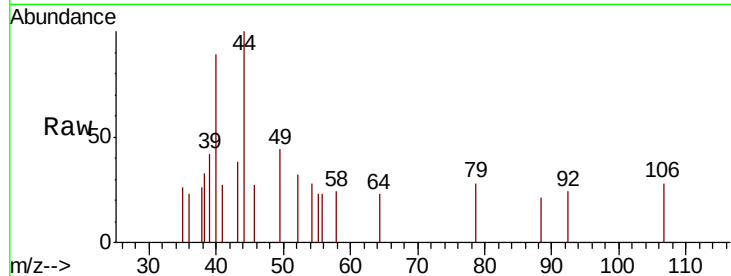




#49
1,4-Dioxane
Concen: 0.387 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

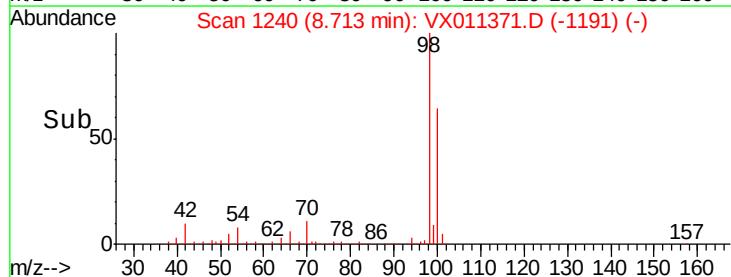
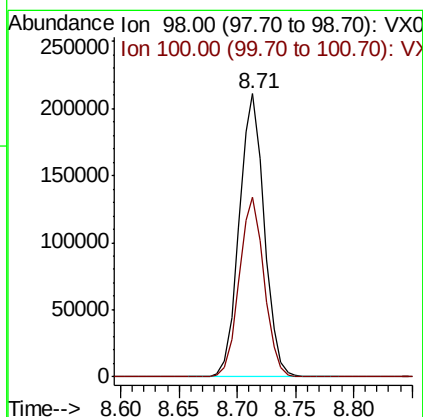
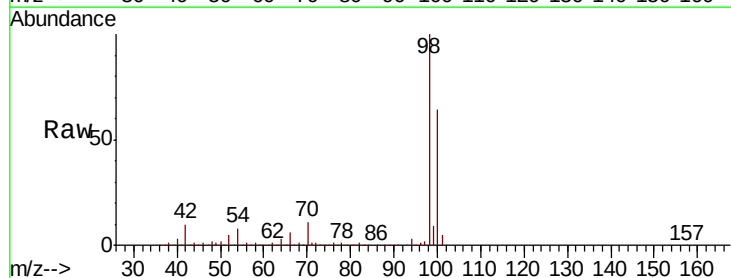
Instrument :
MSVOA_X
ClientSampleId :
MW-25S_080619

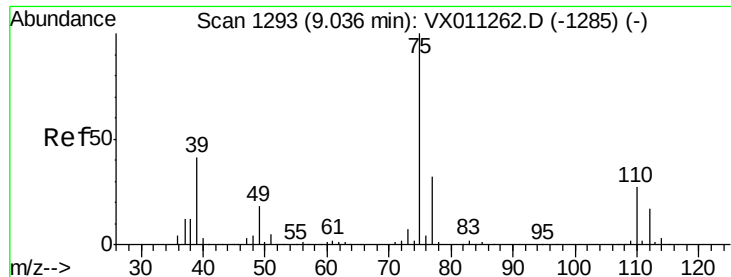
Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 863.2 22.2 33.2#
58 331.6 47.8 71.8#



#50
Toluene-d8
Concen: 50.016 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

Tgt Ion: 98 Resp: 316426
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5

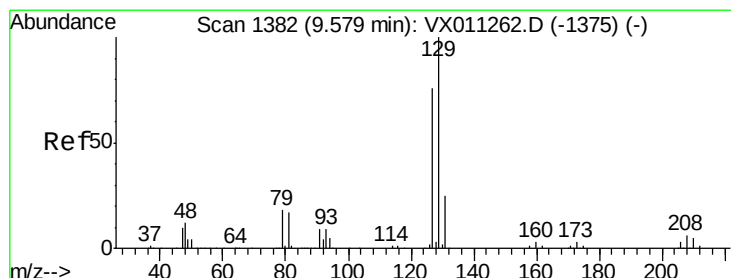
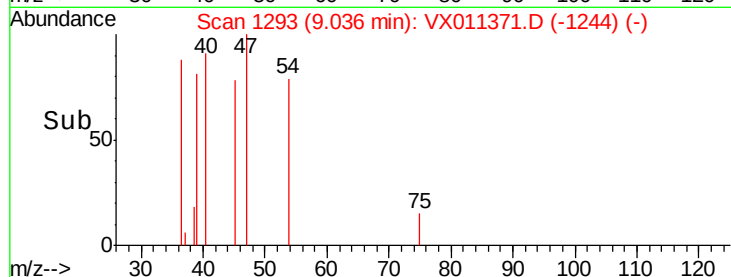
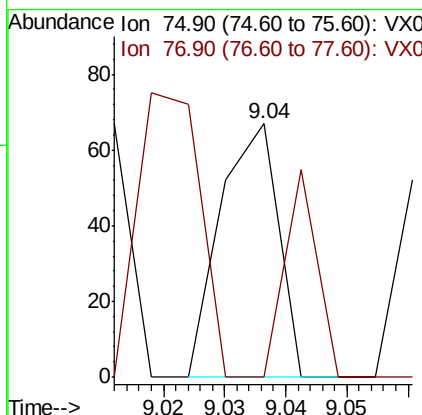
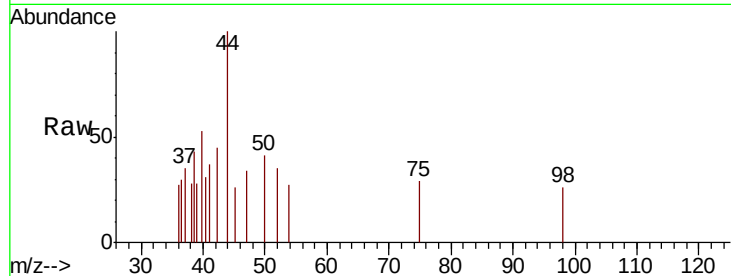




#53
t-1,3-Dichloropropene
Concen: 2.855 ug/l
RT: 9.04 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

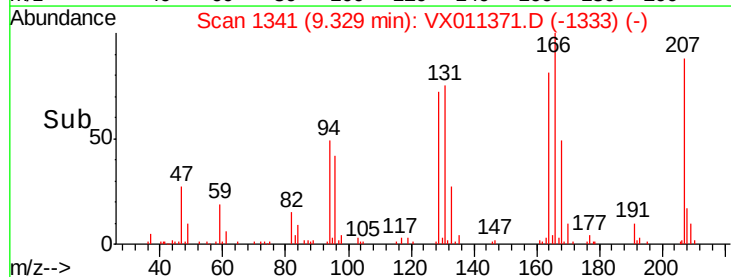
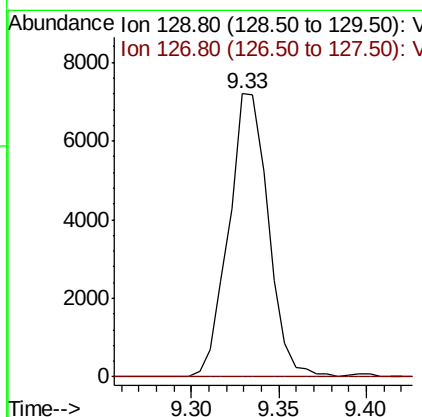
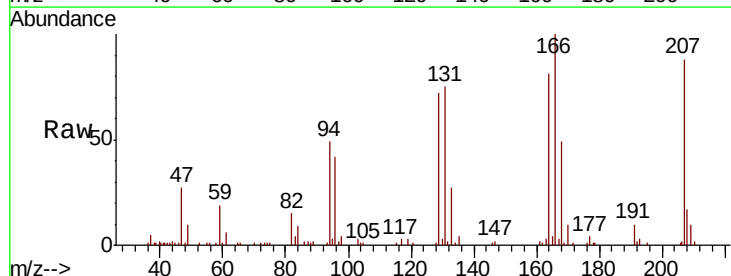
Instrument :
MSVOA_X
ClientSampleId :
MW-25S_080619

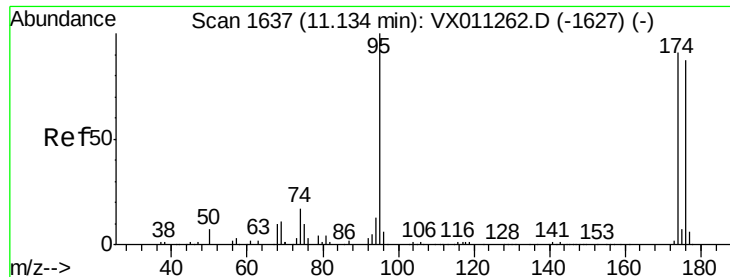
Tgt Ion: 75 Resp: 44
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#60
Dibromochloromethane
Concen: 6.107 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX011371.D
Acq: 07 Aug 2019 18:28

Tgt Ion: 129 Resp: 11369
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#





#62

4-Bromofluorobenzene

Concen: 50.263 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

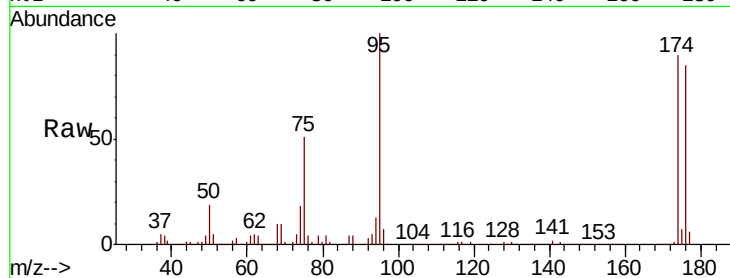
Tgt Ion: 95 Resp: 113532

Ion Ratio Lower Upper

95 100

174 89.6 0.0 191.2

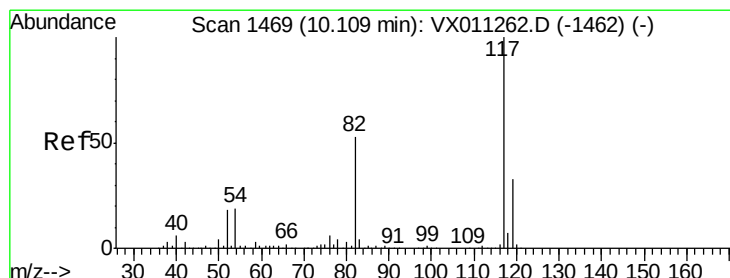
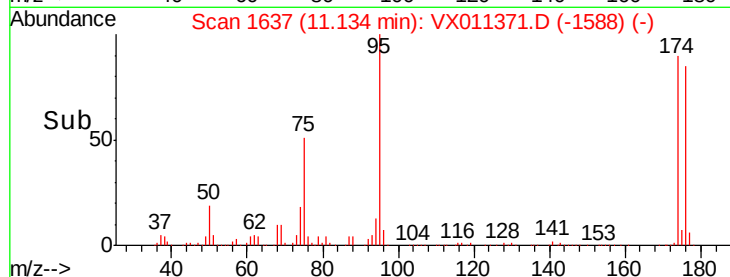
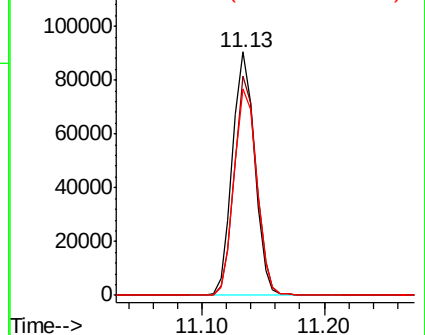
176 87.0 0.0 184.8



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: VX011371.D

Acq: 07 Aug 2019 18:28

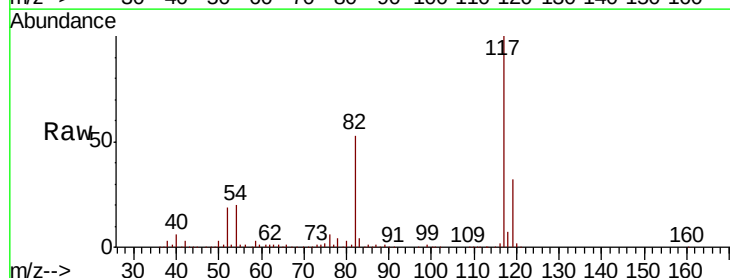
Tgt Ion: 117 Resp: 247543

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

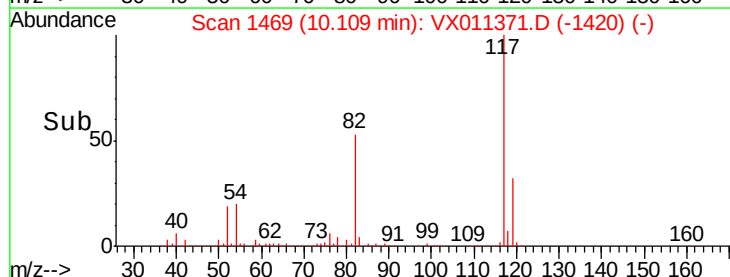
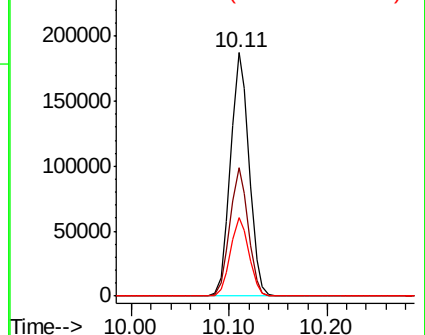
119 32.2 26.6 39.8

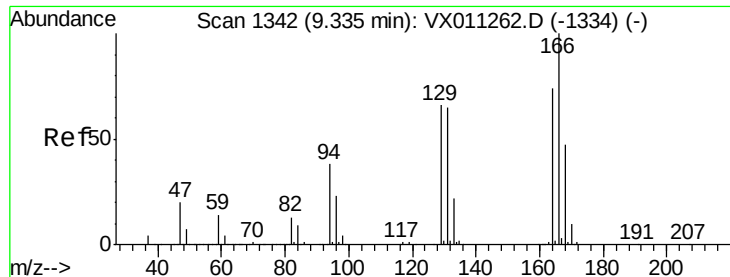


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 5.940 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

Tgt Ion:164 Resp: 12488

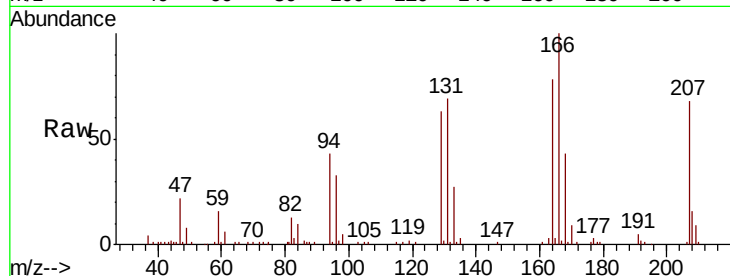
Ion Ratio Lower Upper

164 100

166 127.7 107.5 161.3

129 81.1 71.0 106.4

131 87.5 69.8 104.6

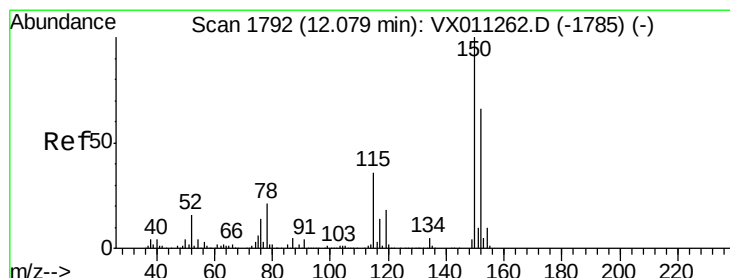
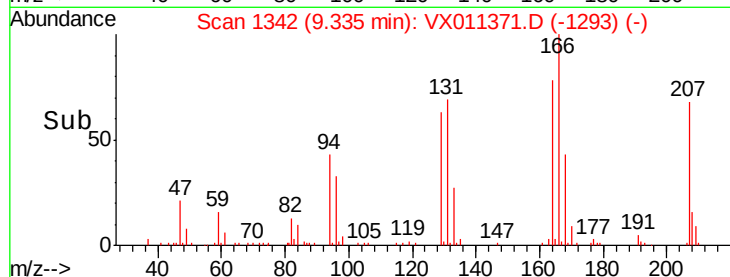
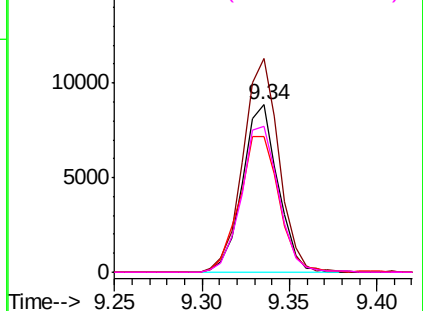


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

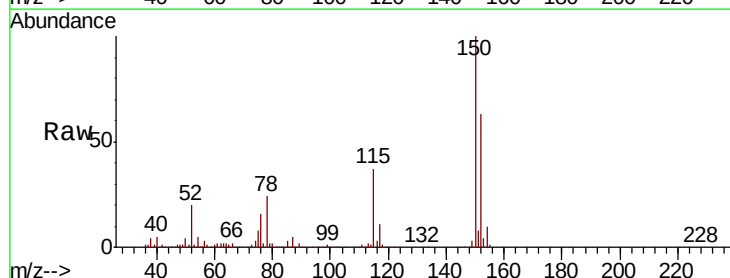
Tgt Ion:152 Resp: 115263

Ion Ratio Lower Upper

152 100

115 56.3 40.0 119.9

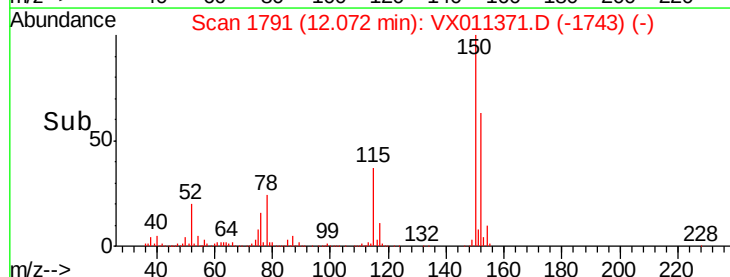
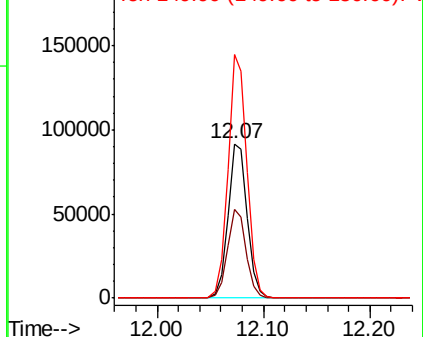
150 155.1 0.0 350.4

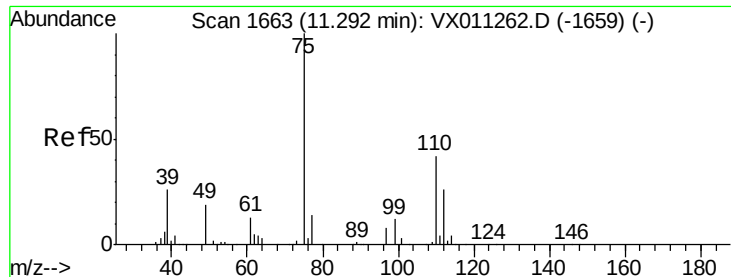


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.342 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

Instrument :

MSVOA_X

ClientSampleId :

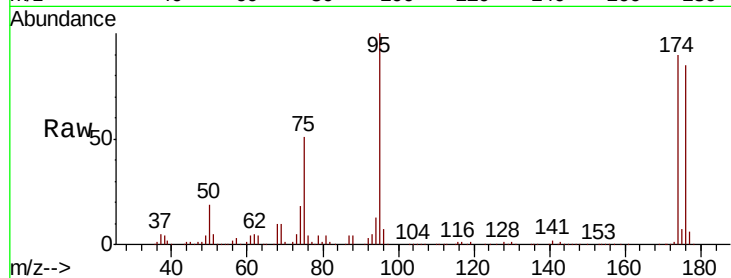
MW-25S_080619

Tgt Ion: 75 Resp: 57393

Ion Ratio Lower Upper

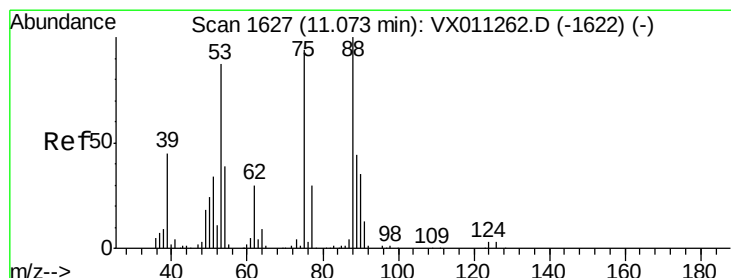
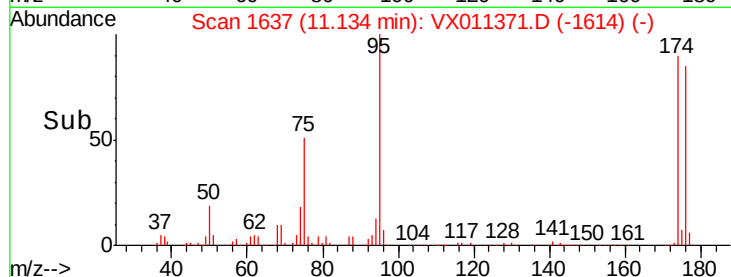
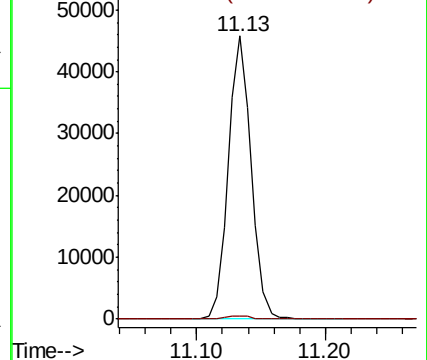
75 100

77 1.1 21.1 63.4#



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: 70.927 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011371.D

Acq: 07 Aug 2019 18:28

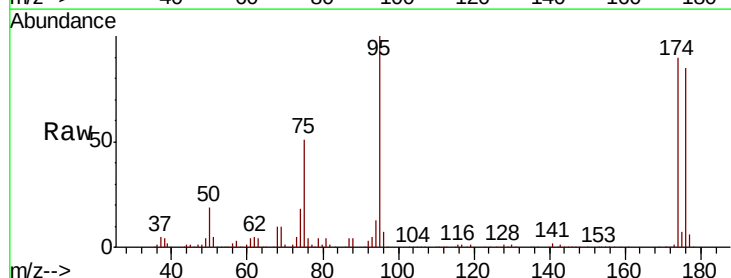
Tgt Ion: 75 Resp: 57393

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#



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

