

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061119\
 Data File : VX010234.D
 Acq On : 11 Jun 2019 15:52
 Operator : JC/SP
 Sample : K3257-09DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190606DL

Quant Time: Jun 12 07:49:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	247096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375099	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	340548	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159910	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	111974	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
35) Dibromofluoromethane	5.50	113	113358	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	8.71	98	440580	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	148783	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

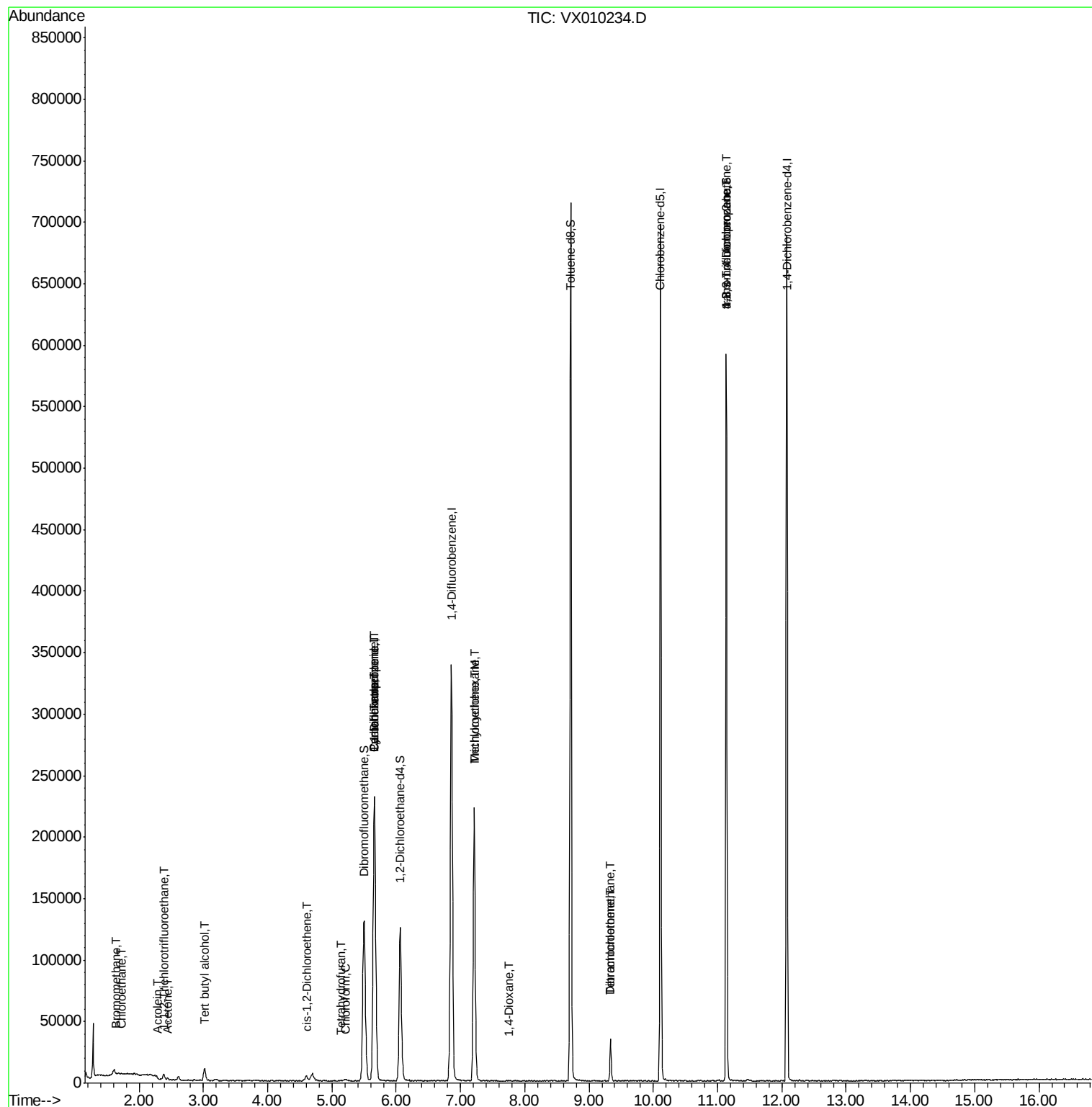
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	357	0.446	ug/l	90
6) Chloroethane	1.72	64	421	0.393	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1416	0.652	ug/l #	84
11) Tert butyl alcohol	3.01	59	5100	8.632	ug/l #	77
13) Acrolein	2.29	56	85	0.789	ug/l #	58
16) Acetone	2.44	43	1226	1.081	ug/l #	66
27) cis-1,2-Dichloroethene	4.60	96	2401	0.879	ug/l	74
29) Tetrahydrofuran	5.15	42	244	0.230	ug/l	95
30) Chloroform	5.21	83	1456	0.360	ug/l	97
31) Cyclohexane	5.67	56	3998	1.139	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15094	4.932	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21439	6.189	ug/l #	16
39) Methylcyclohexane	7.21	83	1001	0.240	ug/l #	1
44) Trichloroethene	7.21	130	92853	32.553	ug/l	85
49) 1,4-Dioxane	7.75	88	380	5.353	ug/l #	78
60) Dibromochloromethane	9.34	129	5924	1.966	ug/l #	11
64) Tetrachloroethene	9.34	164	6871	2.717	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	68174	21.314	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	68174	47.092	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

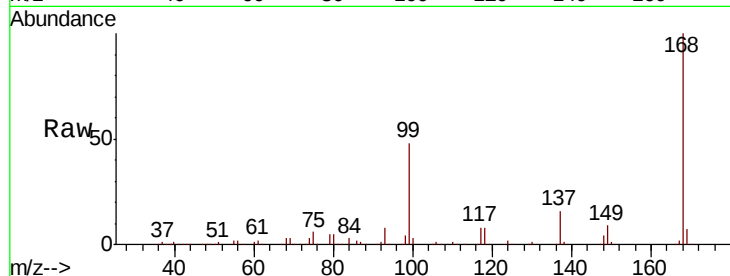
DUP03-20190606DL

Tot Ion:168 Resp: 247096

Ion Ratio Lower Upper

168 100

99 48.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

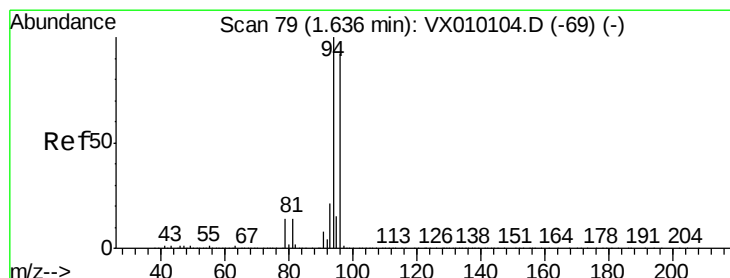
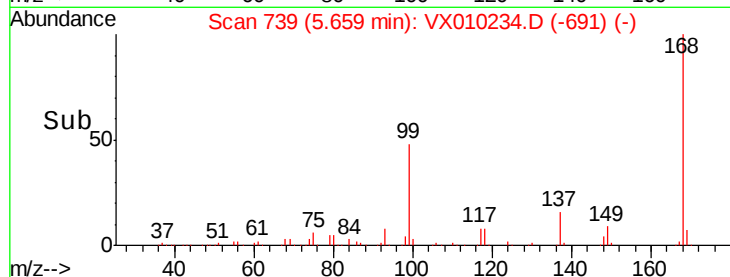
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.446 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010234.D

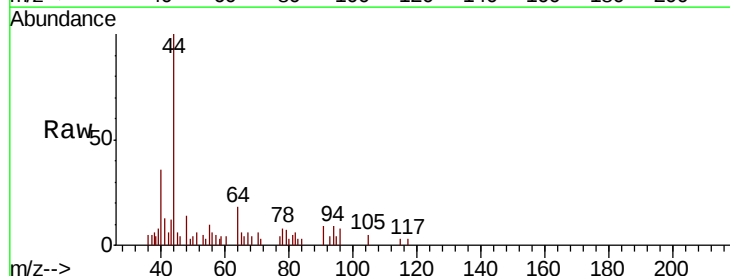
Acq: 11 Jun 2019 15:52

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

94 100

96 85.7 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

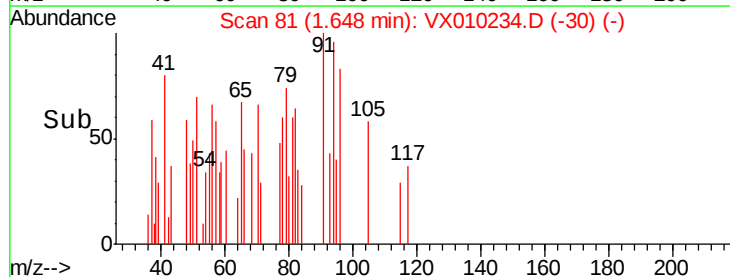
100

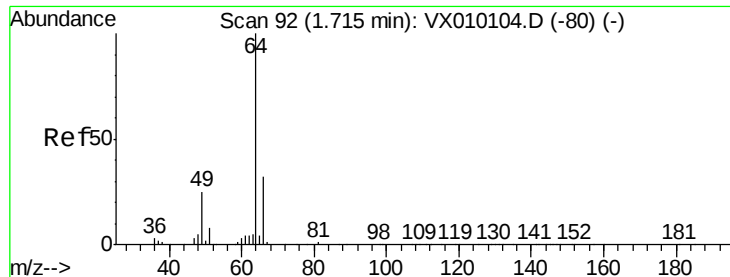
50

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.393 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

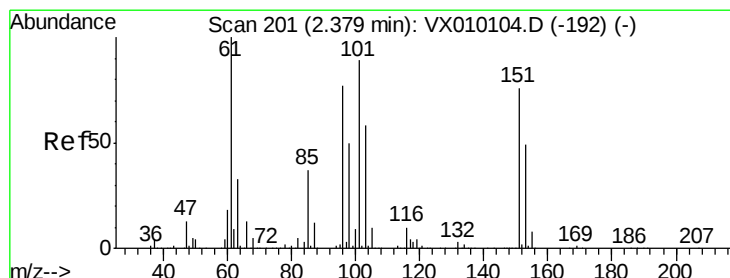
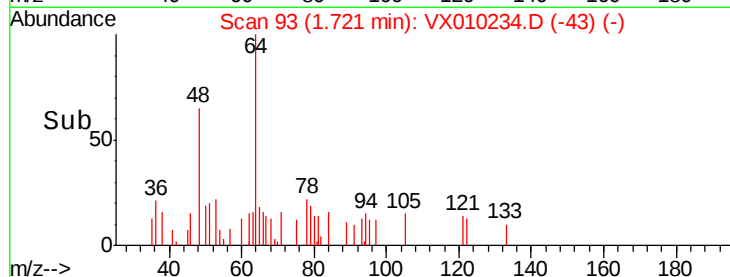
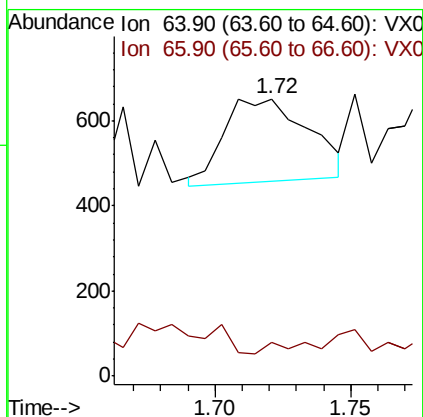
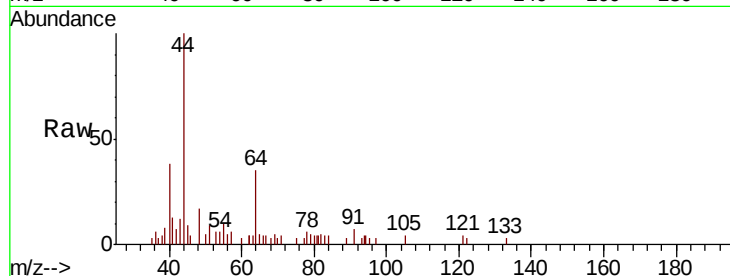
DUP03-20190606DL

Tot Ion: 64 Resp: 421

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.652 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

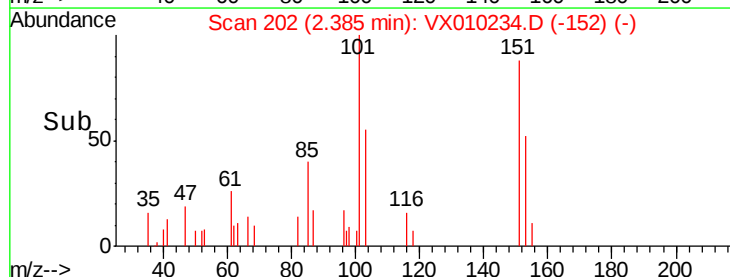
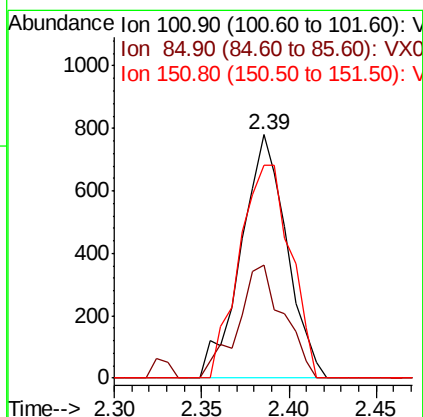
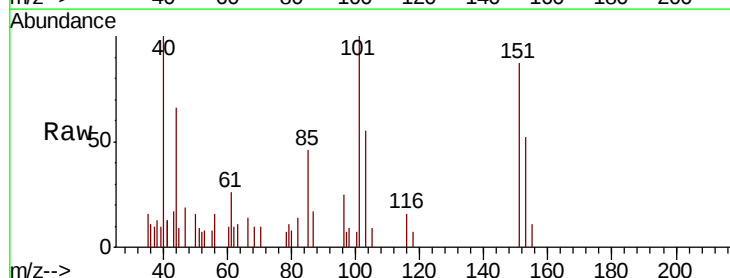
Tgt Ion: 101 Resp: 1416

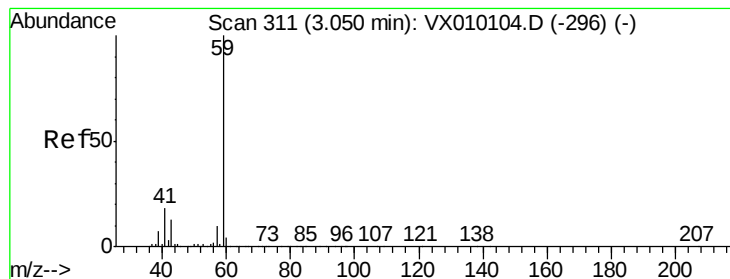
Ion Ratio Lower Upper

101 100

85 46.3 35.2 52.8

151 98.0 61.9 92.9#



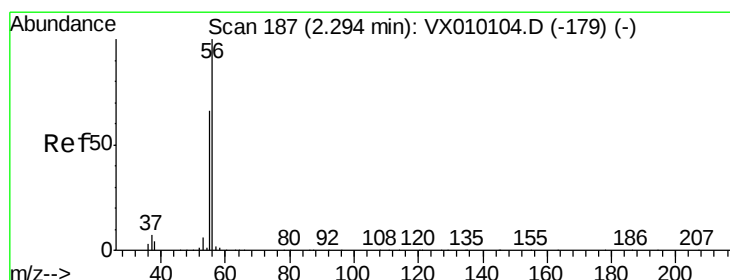
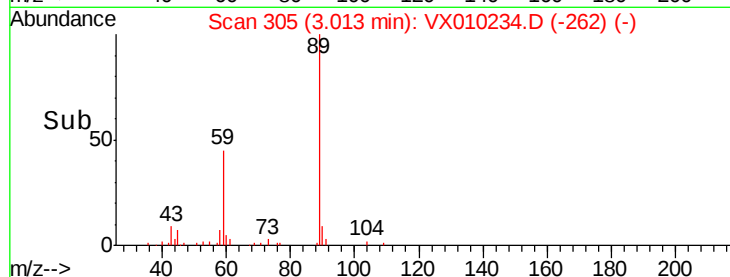
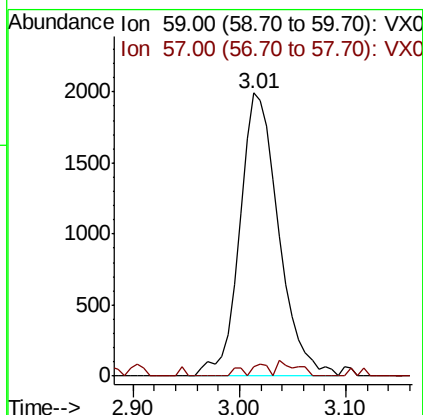
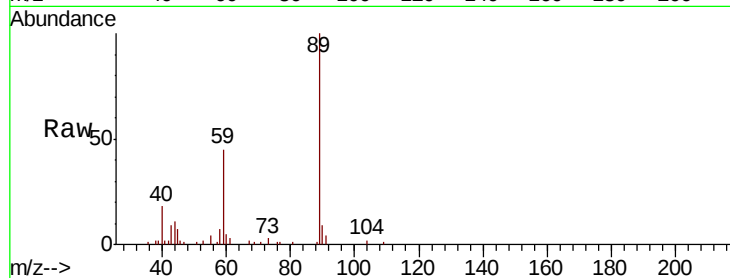


#11

Tert butyl alcohol
 Concen: 8.632 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX010234.D
 Acq: 11 Jun 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190606DL

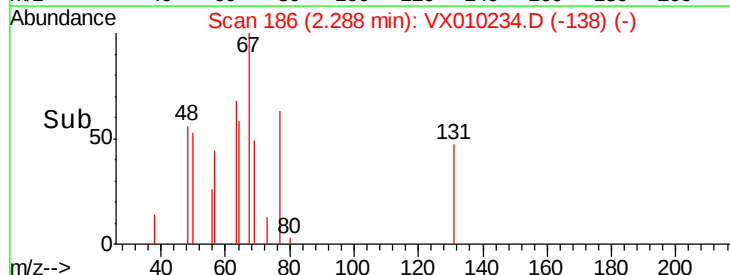
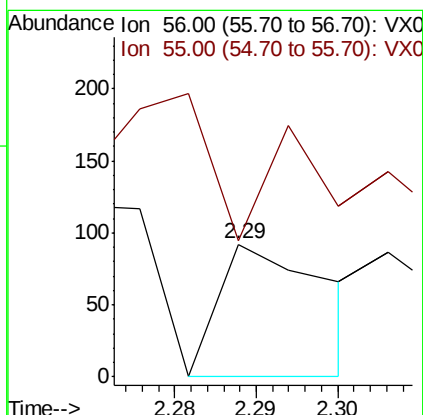
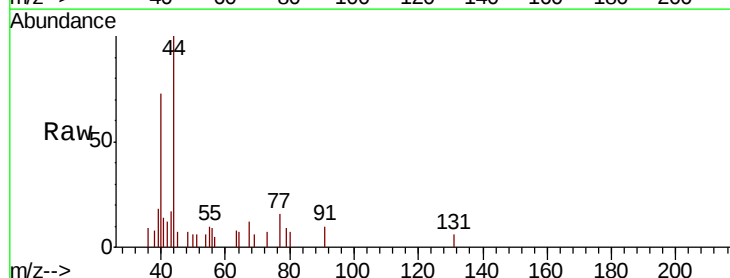
Tot Ion: 59 Resp: 5100
 Ion Ratio Lower Upper
 59 100
 57 1.6 8.2 12.2#

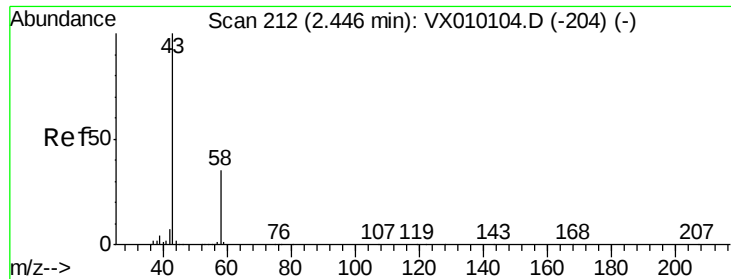


#13

Acrolein
 Concen: 0.789 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX010234.D
 Acq: 11 Jun 2019 15:52

Tgt Ion: 56 Resp: 85
 Ion Ratio Lower Upper
 56 100
 55 105.9 57.0 85.4#





#16

Acetone

Concen: 1.081 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

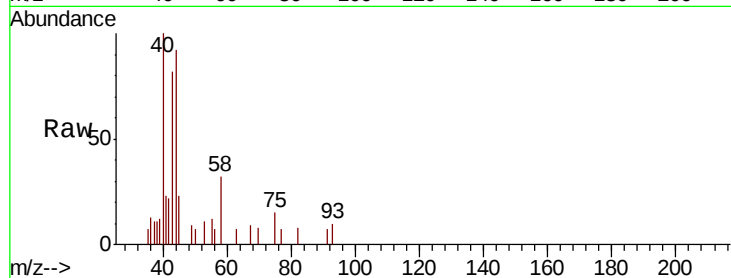
DUP03-20190606DL

Tot Ion: 43 Resp: 1226

Ion Ratio Lower Upper

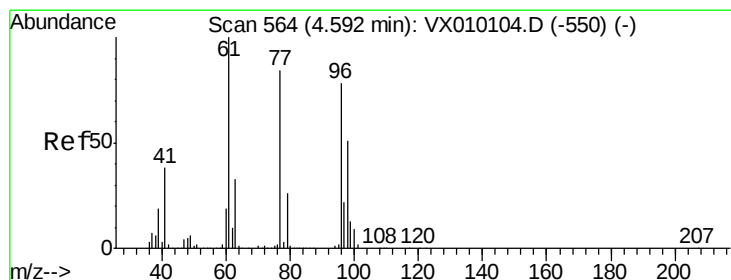
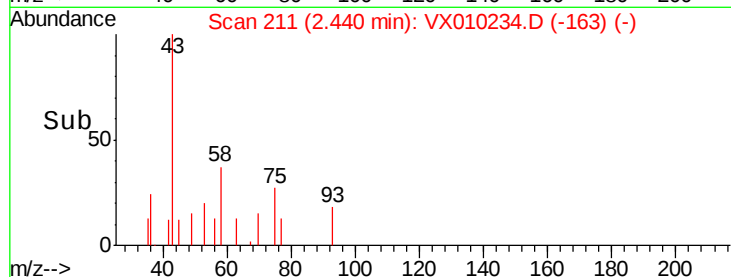
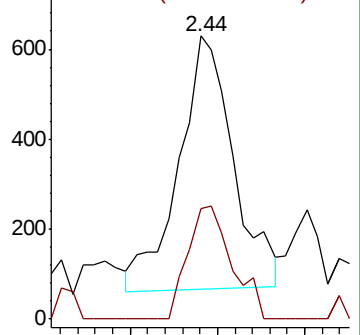
43 100

58 46.9 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.879 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

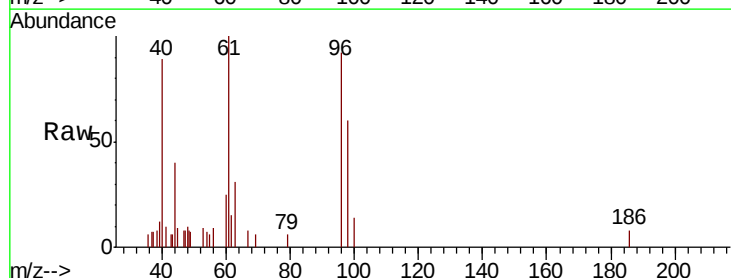
Tgt Ion: 96 Resp: 2401

Ion Ratio Lower Upper

96 100

61 121.5 0.0 334.0

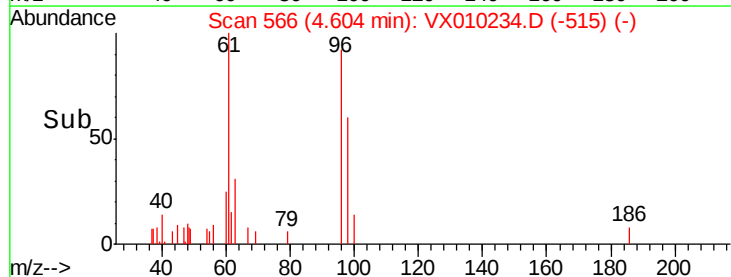
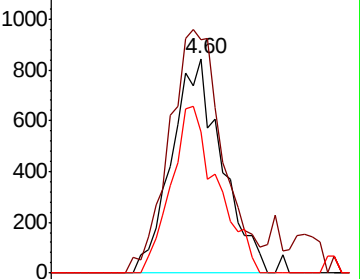
98 72.4 0.0 131.6

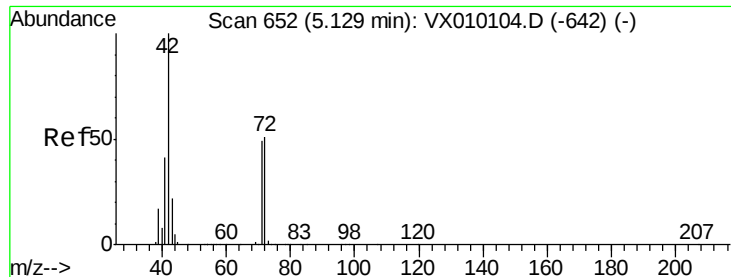


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

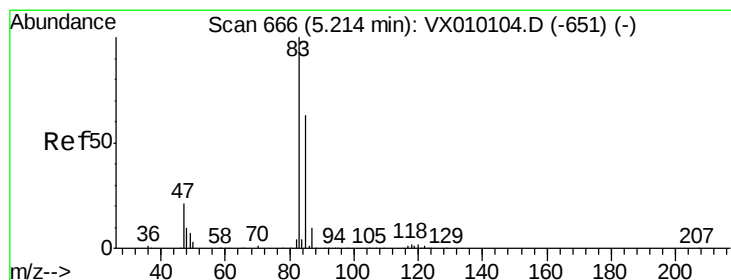
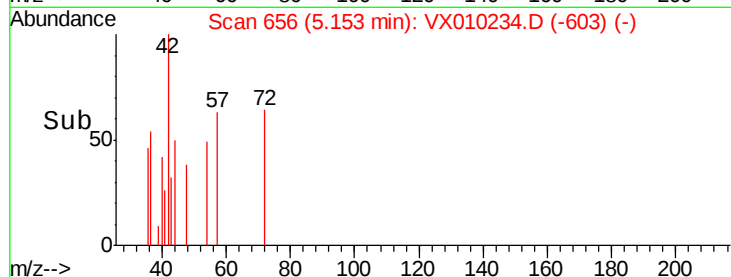
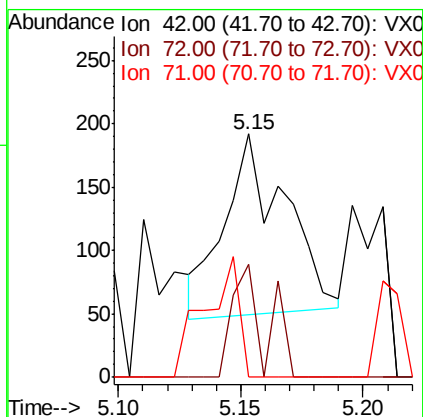
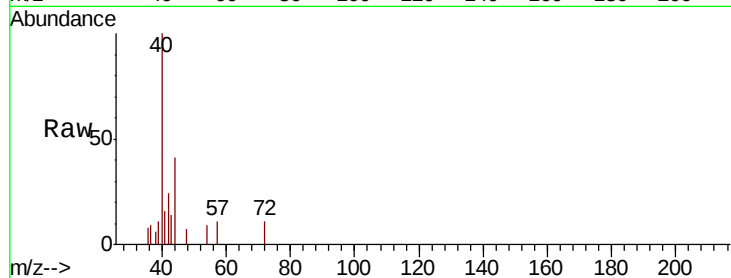




#29
Tetrahydrofuran
Concen: 0.230 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

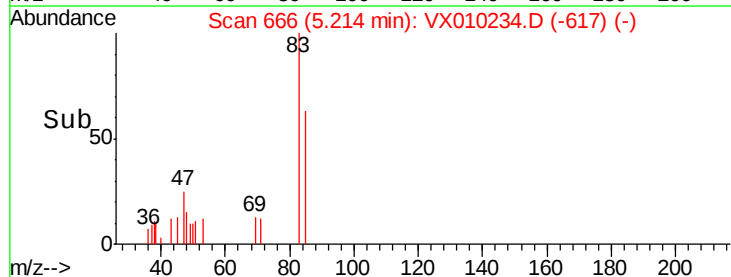
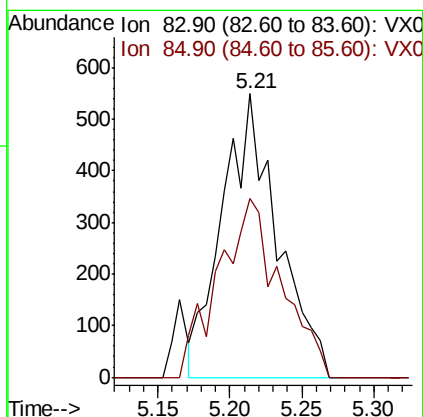
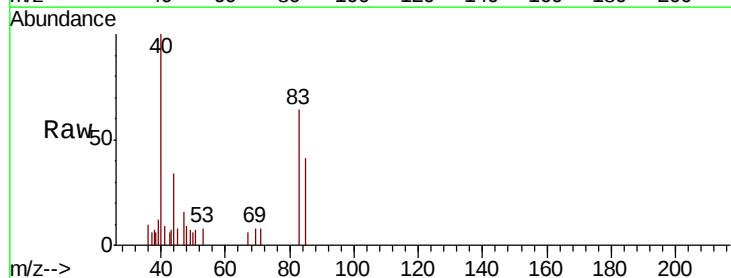
Instrument :
MSVOA_X
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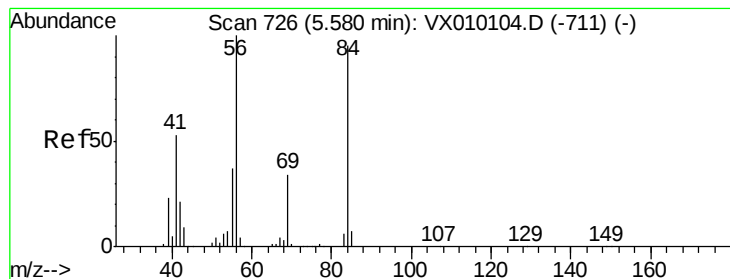
Tot Ion: 42 Resp: 244
Ion Ratio Lower Upper
42 100
72 34.4 29.2 43.8
71 38.1 27.6 41.4



#30
Chloroform
Concen: 0.360 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Tgt Ion: 83 Resp: 1456
Ion Ratio Lower Upper
83 100
85 63.2 52.6 78.8





#31

Cyclohexane

Concen: 1.139 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190606DL

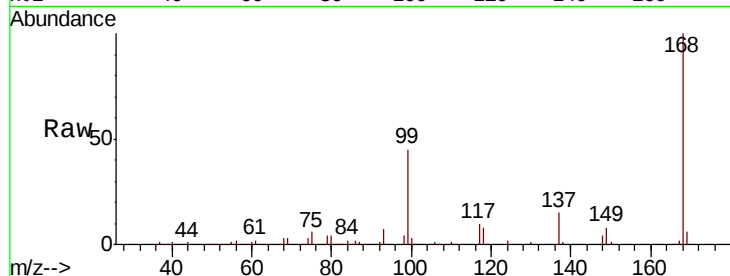
Tot Ion: 56 Resp: 3998

Ion Ratio Lower Upper

56 100

69 146.2 21.6 32.4#

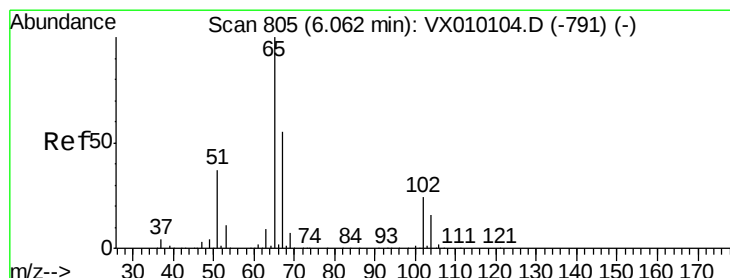
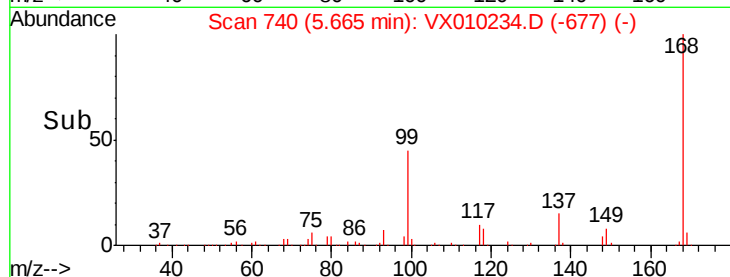
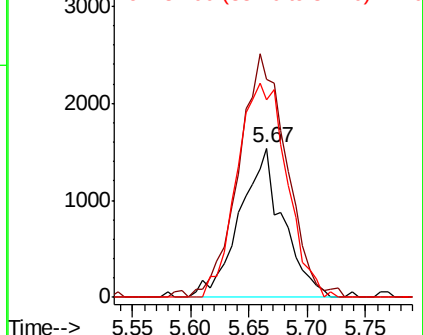
84 132.2 56.8 85.2#



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: 46.425 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010234.D

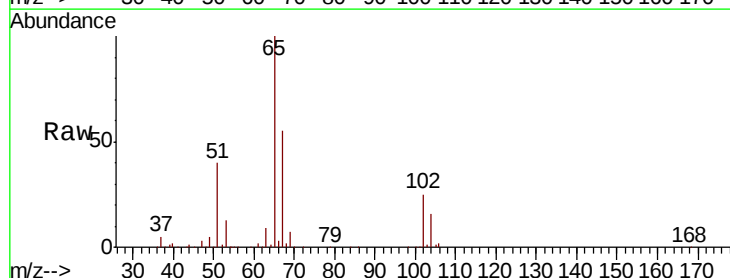
Acq: 11 Jun 2019 15:52

Tgt Ion: 65 Resp: 111974

Ion Ratio Lower Upper

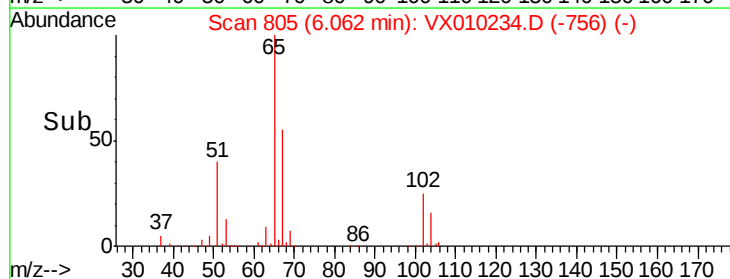
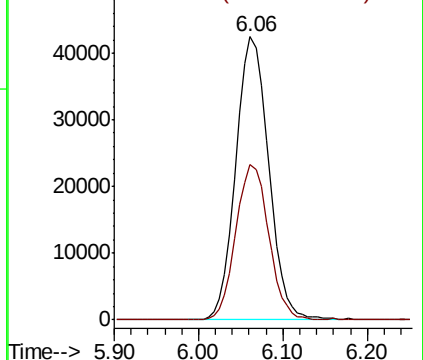
65 100

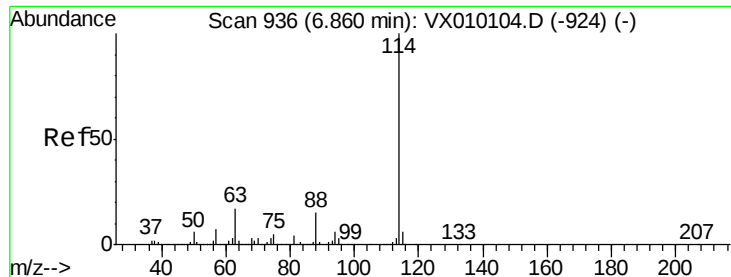
67 55.0 0.0 108.4



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: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190606DL

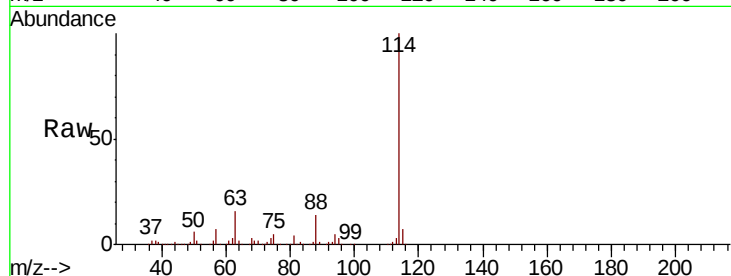
Tot Ion:114 Resp: 375099

Ion Ratio Lower Upper

114 100

63 16.0 0.0 47.4

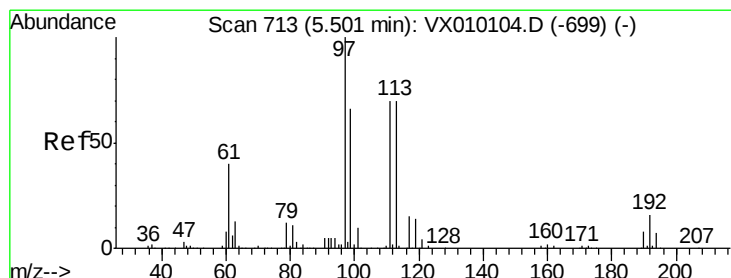
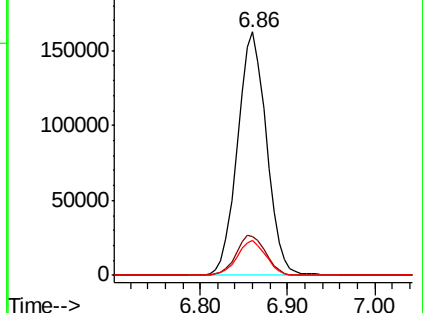
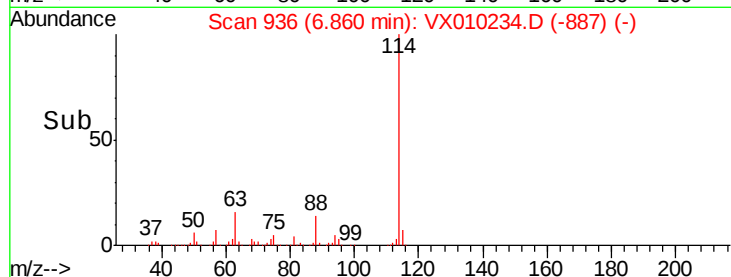
88 14.2 0.0 33.0



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: 48.994 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

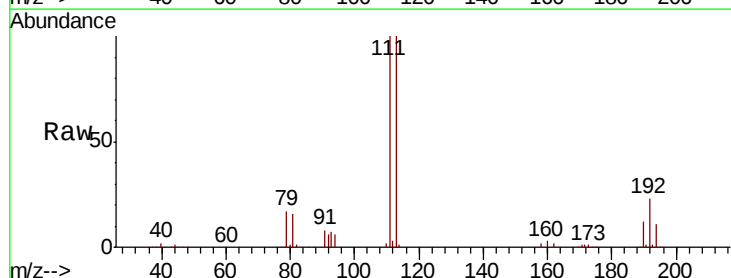
Tgt Ion:113 Resp: 113358

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

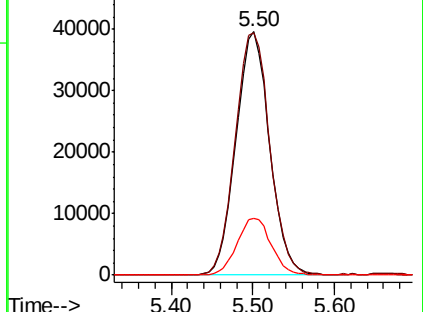
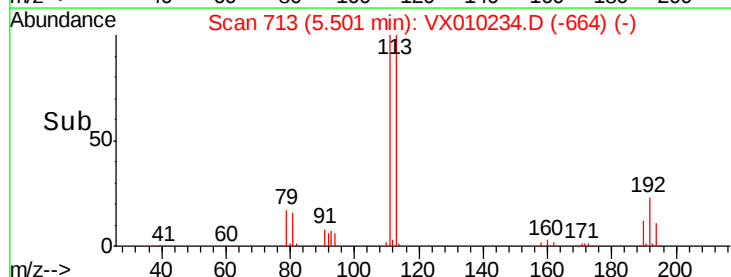
192 23.9 17.1 25.7

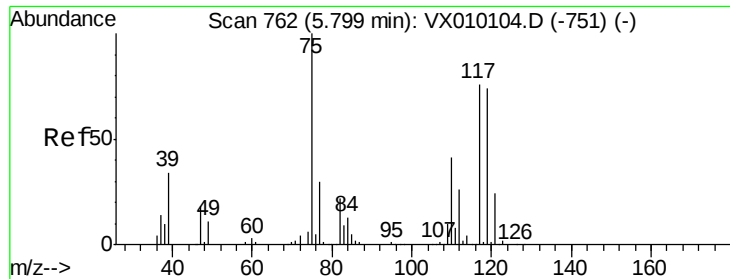


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

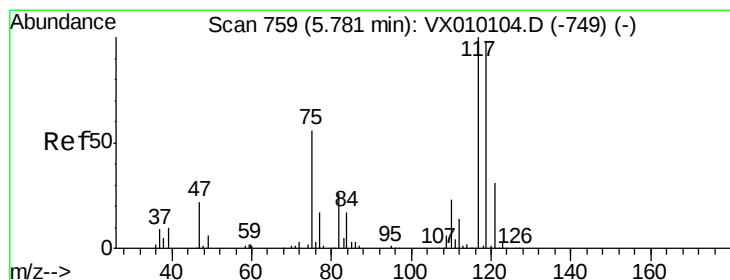
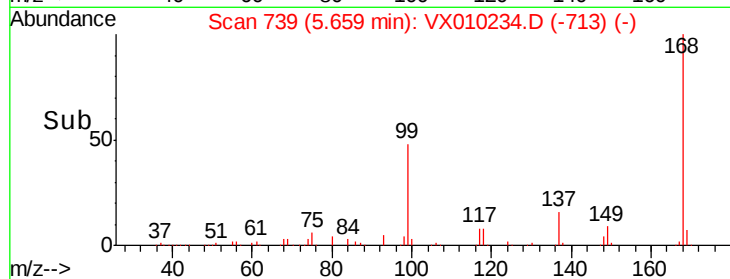
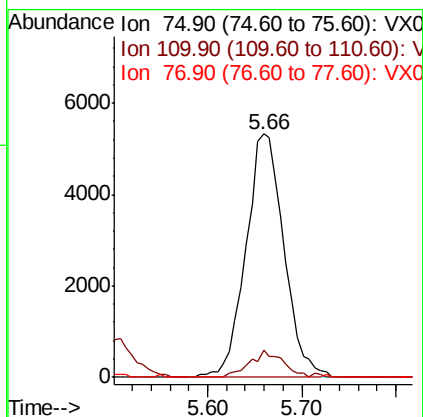
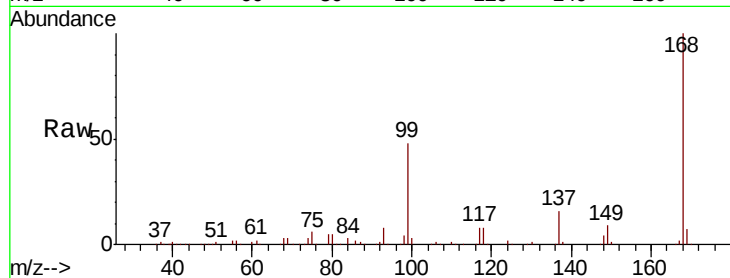




#36
 1,1-Dichloropropene
 Concen: 4.932 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010234.D
 Acq: 11 Jun 2019 15:52

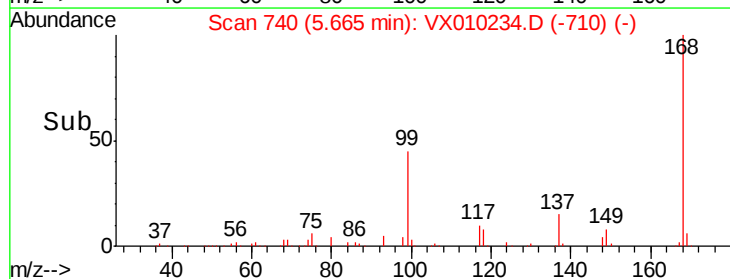
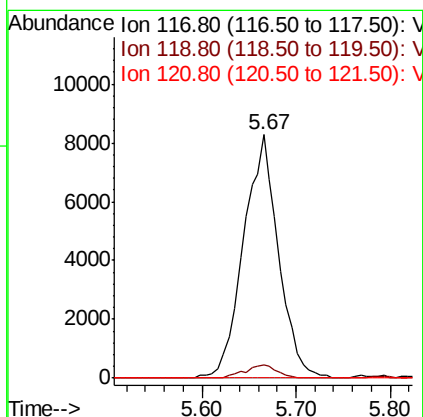
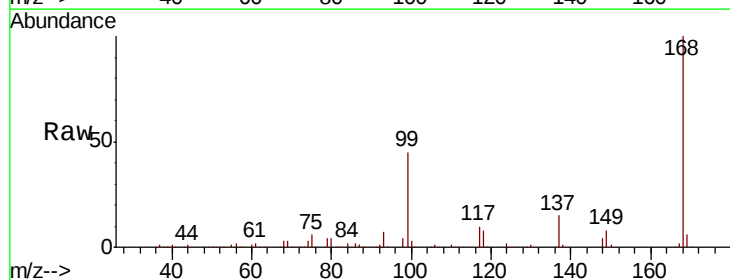
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP03-20190606DL

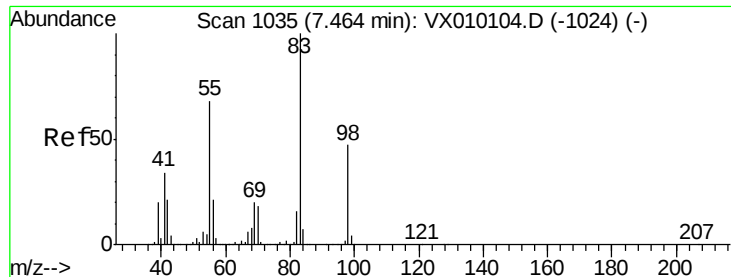
Tot Ion: 75 Resp: 15094
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.7 50.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.189 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010234.D
 Acq: 11 Jun 2019 15:52

Tgt Ion: 117 Resp: 21439
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.3 115.9#
 121 0.0 25.4 38.0#

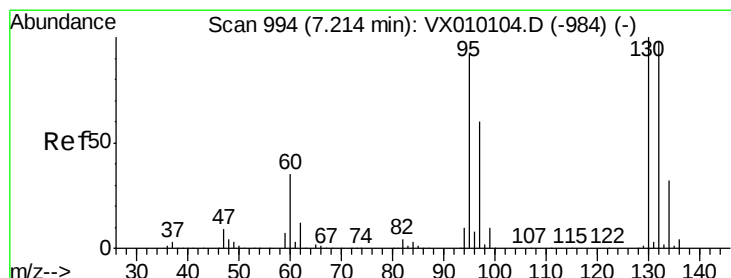
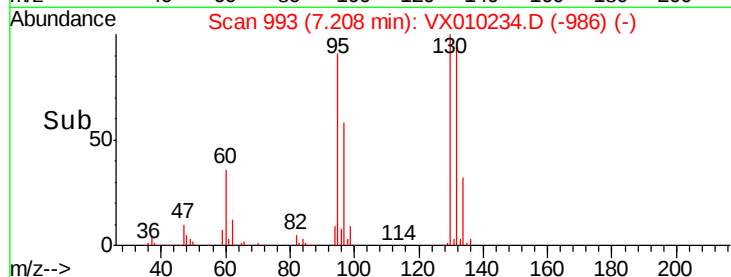
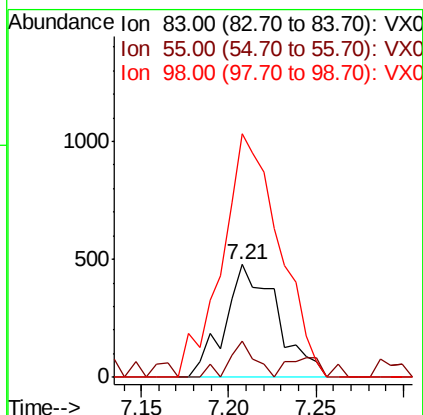
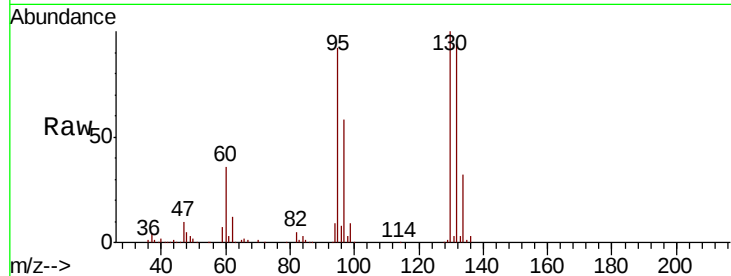




#39
Methvlcvclohexane
Concen: 0.240 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

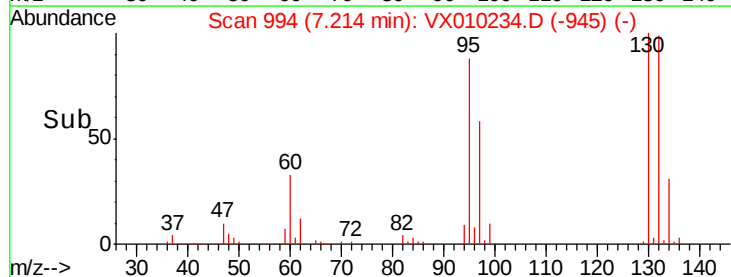
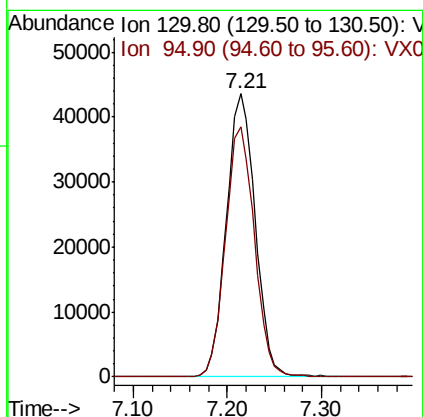
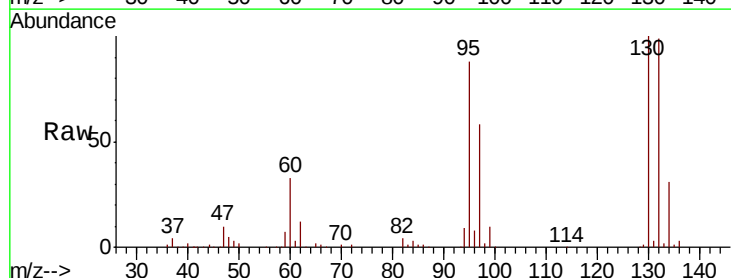
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190606DL

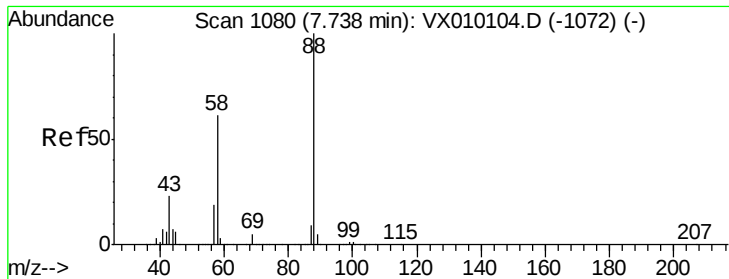
Tot Ion: 83 Resp: 1001
Ion Ratio Lower Upper
83 100
55 32.0 69.9 104.9#
98 215.9 35.1 52.7#



#44
Trichloroethene
Concen: 32.553 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Tgt Ion:130 Resp: 92853
Ion Ratio Lower Upper
130 100
95 88.2 0.0 207.4

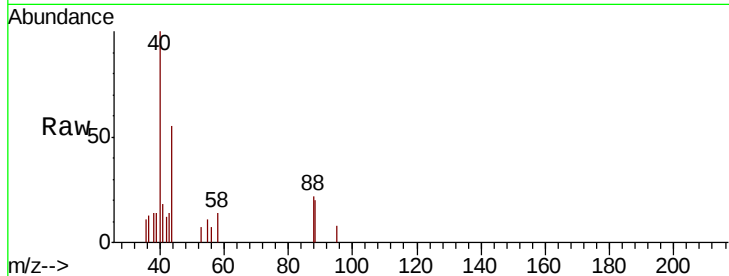




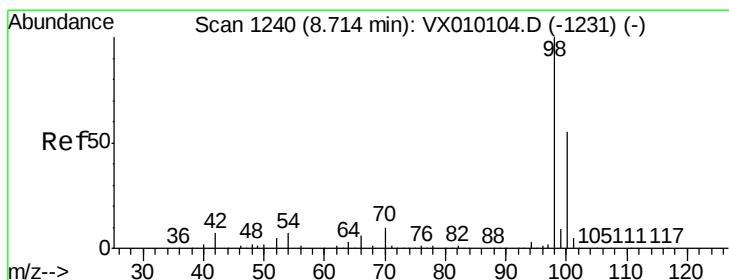
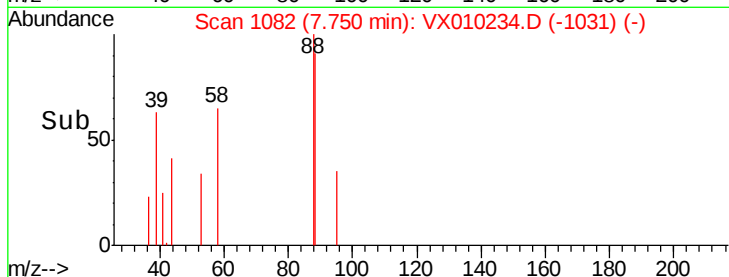
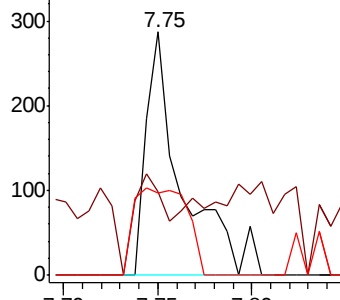
#49
1,4-Dioxane
Concen: 5.353 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190606DL

Tot Ion: 88 Resp: 380
Ion Ratio Lower Upper
88 100
43 35.5 30.2 45.4
58 52.9 64.0 96.0#

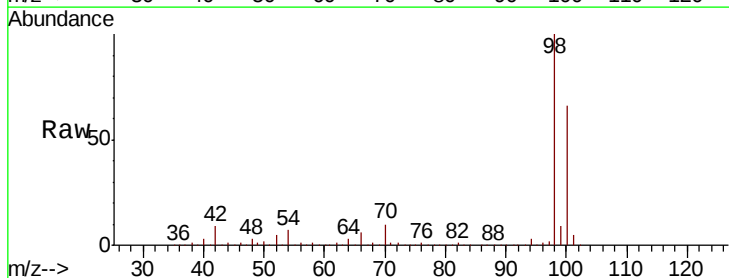


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

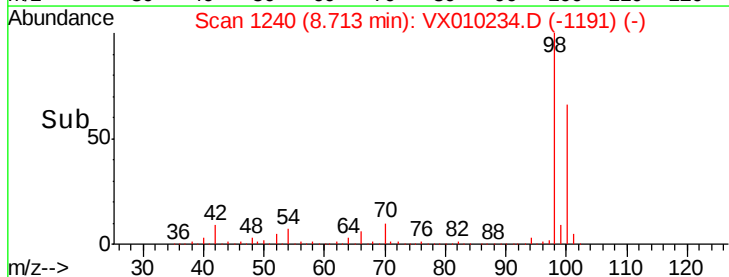
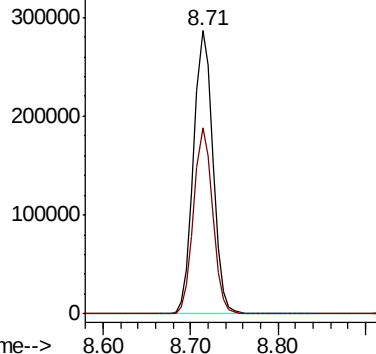


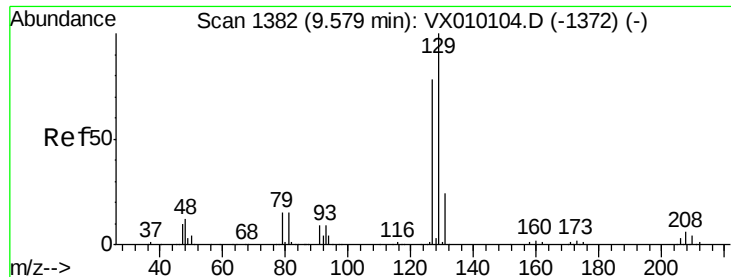
#50
Toluene-d8
Concen: 50.809 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Tgt Ion: 98 Resp: 440580
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3



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





#60

Dibromochloromethane

Concen: 1.966 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

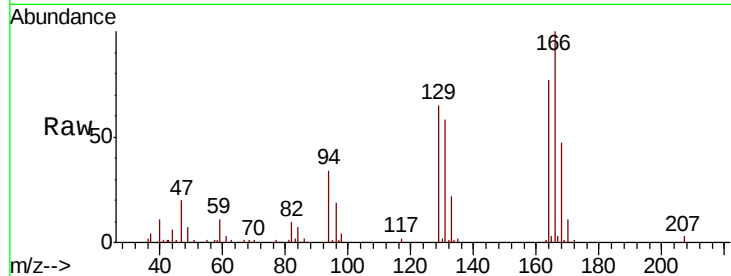
DUP03-20190606DL

Tot Ion:129 Resp: 5924

Ion Ratio Lower Upper

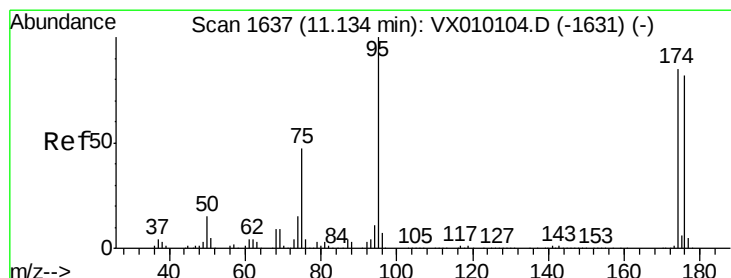
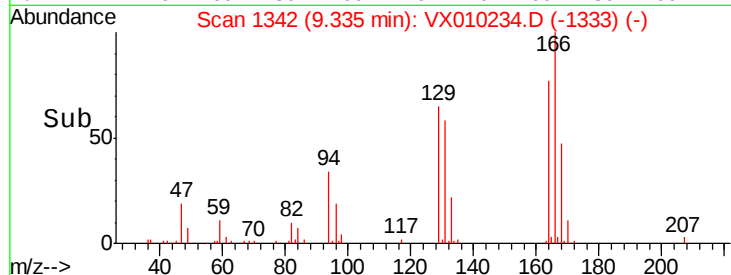
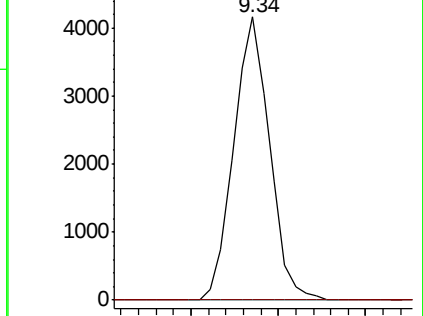
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.943 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

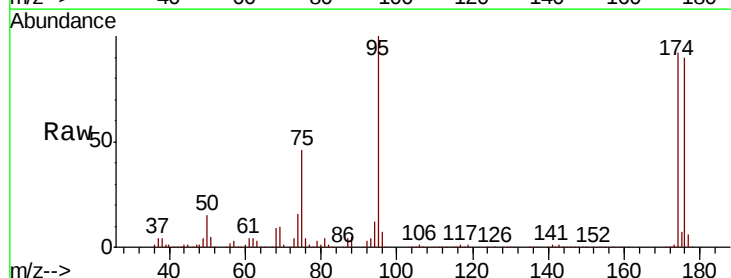
Tgt Ion: 95 Resp: 148783

Ion Ratio Lower Upper

95 100

174 97.2 0.0 160.4

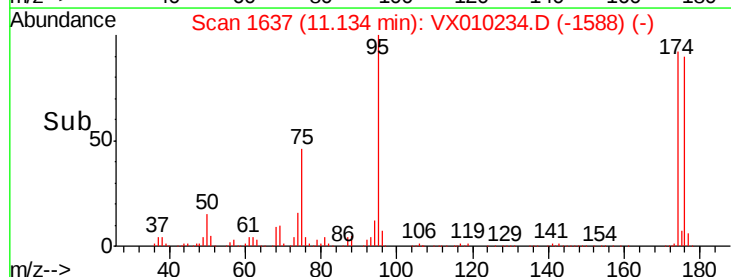
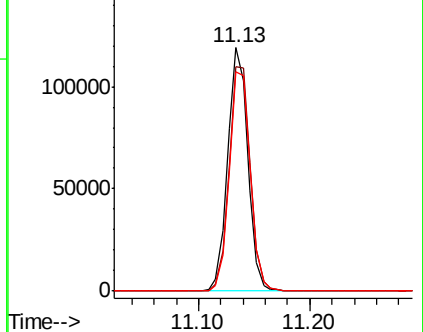
176 93.9 0.0 154.6

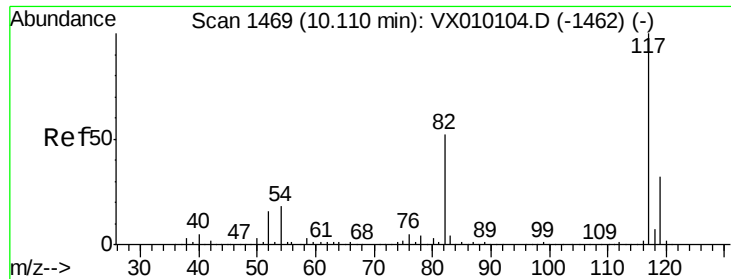


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

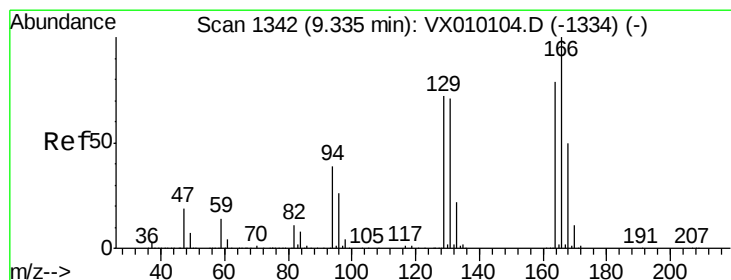
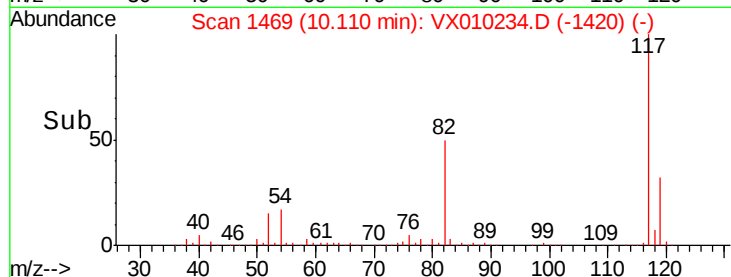
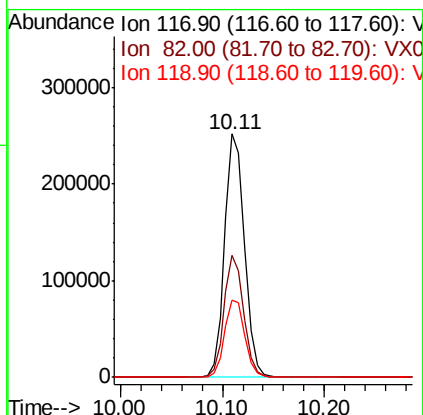
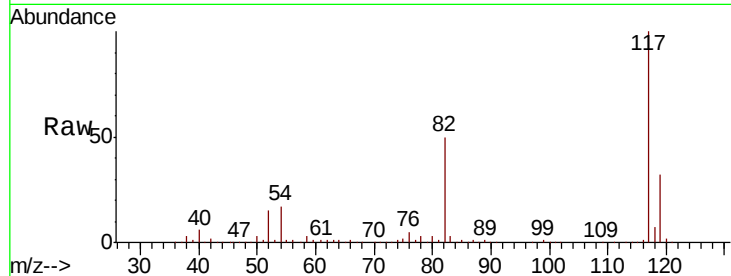




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

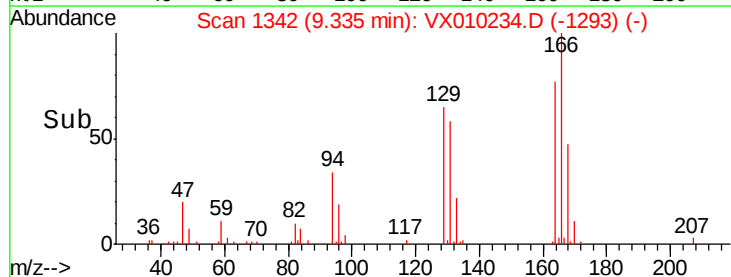
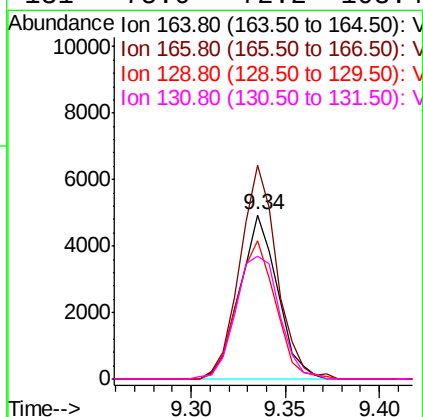
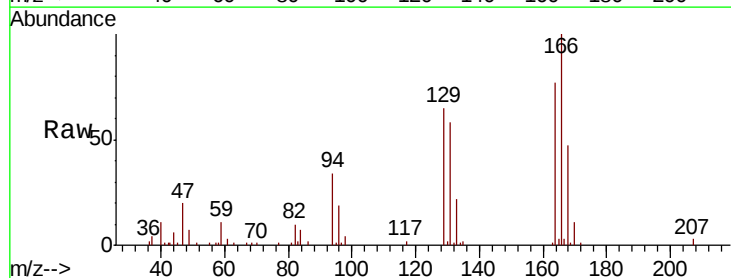
Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190606DL

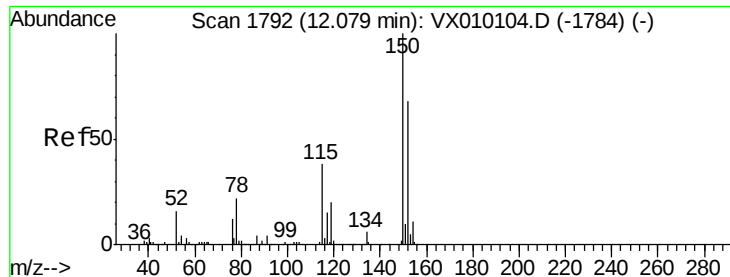
Tot Ion:117 Resp: 340548
Ion Ratio Lower Upper
117 100
82 49.9 49.2 73.8
119 31.9 25.2 37.8



#64
Tetrachloroethene
Concen: 2.717 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Tgt Ion:164 Resp: 6871
Ion Ratio Lower Upper
164 100
166 130.0 105.0 157.4
129 84.1 75.1 112.7
131 75.0 72.2 108.4



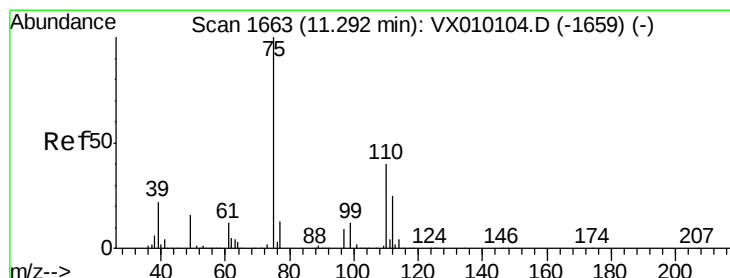
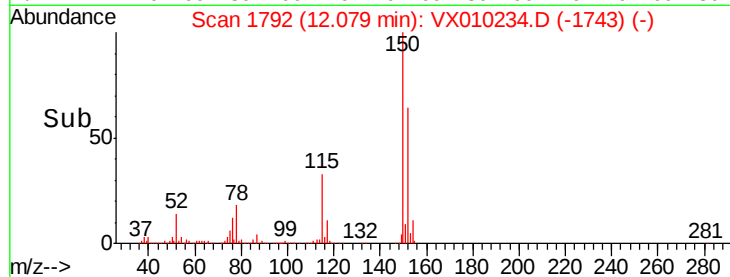
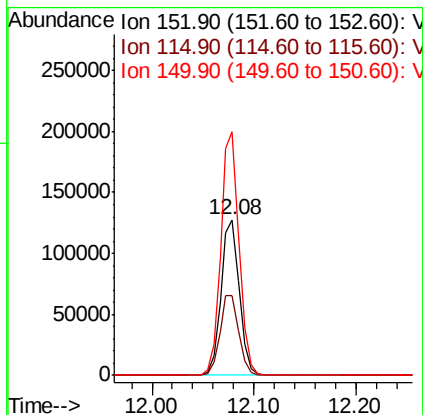
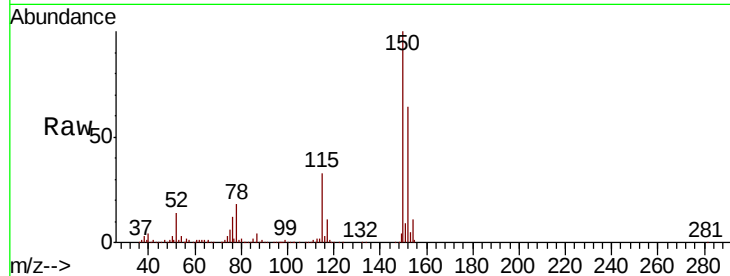


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
DUP03-20190606DL

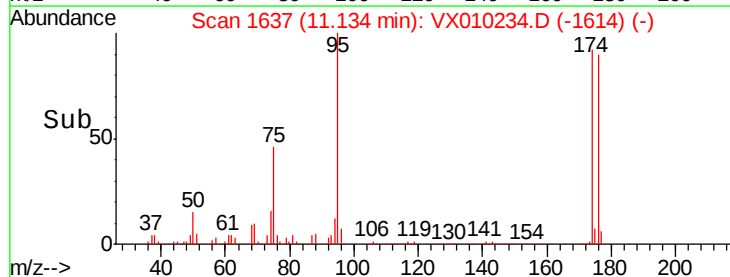
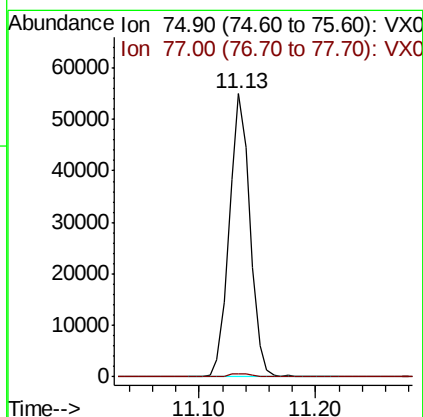
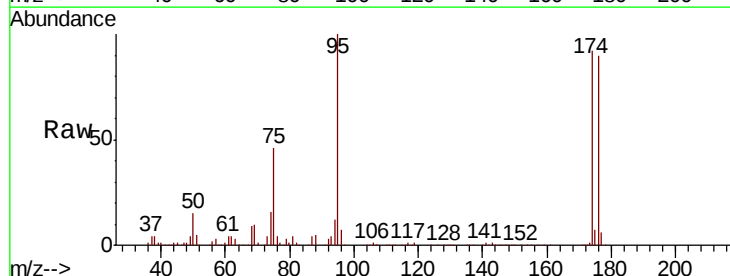
Tot Ion:152 Resp: 159910
Ion Ratio Lower Upper
152 100
115 52.6 41.4 124.2
150 156.0 0.0 345.2

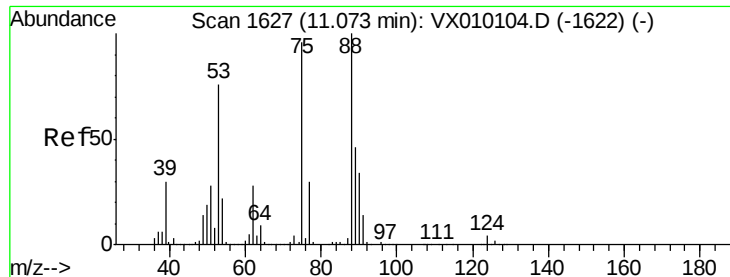


#76

1,2,3-Trichloropropane
Concen: 21.314 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010234.D
Acq: 11 Jun 2019 15:52

Tgt Ion: 75 Resp: 68174
Ion Ratio Lower Upper
75 100
77 1.3 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 47.092 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010234.D

Acq: 11 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

DUP03-20190606DL

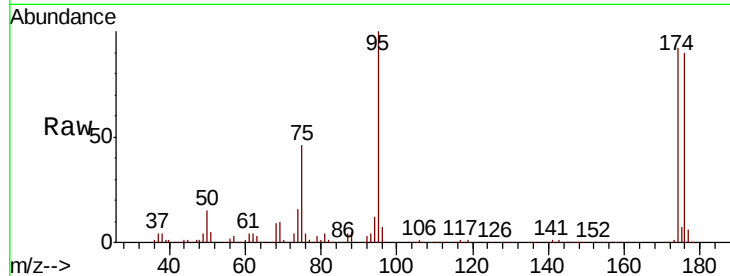
Tot Ion: 75 Resp: 68174

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#



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

