

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010252.D
 Acq On : 12 Jun 2019 15:48
 Operator : JC/SP
 Sample : K3309-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-190610

Quant Time: Jun 13 01:27:23 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	5.67	168	314408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	477090	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	425230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198989	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	142280	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
35) Dibromofluoromethane	5.50	113	144121	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.71	98	557763	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.13	95	189310	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	

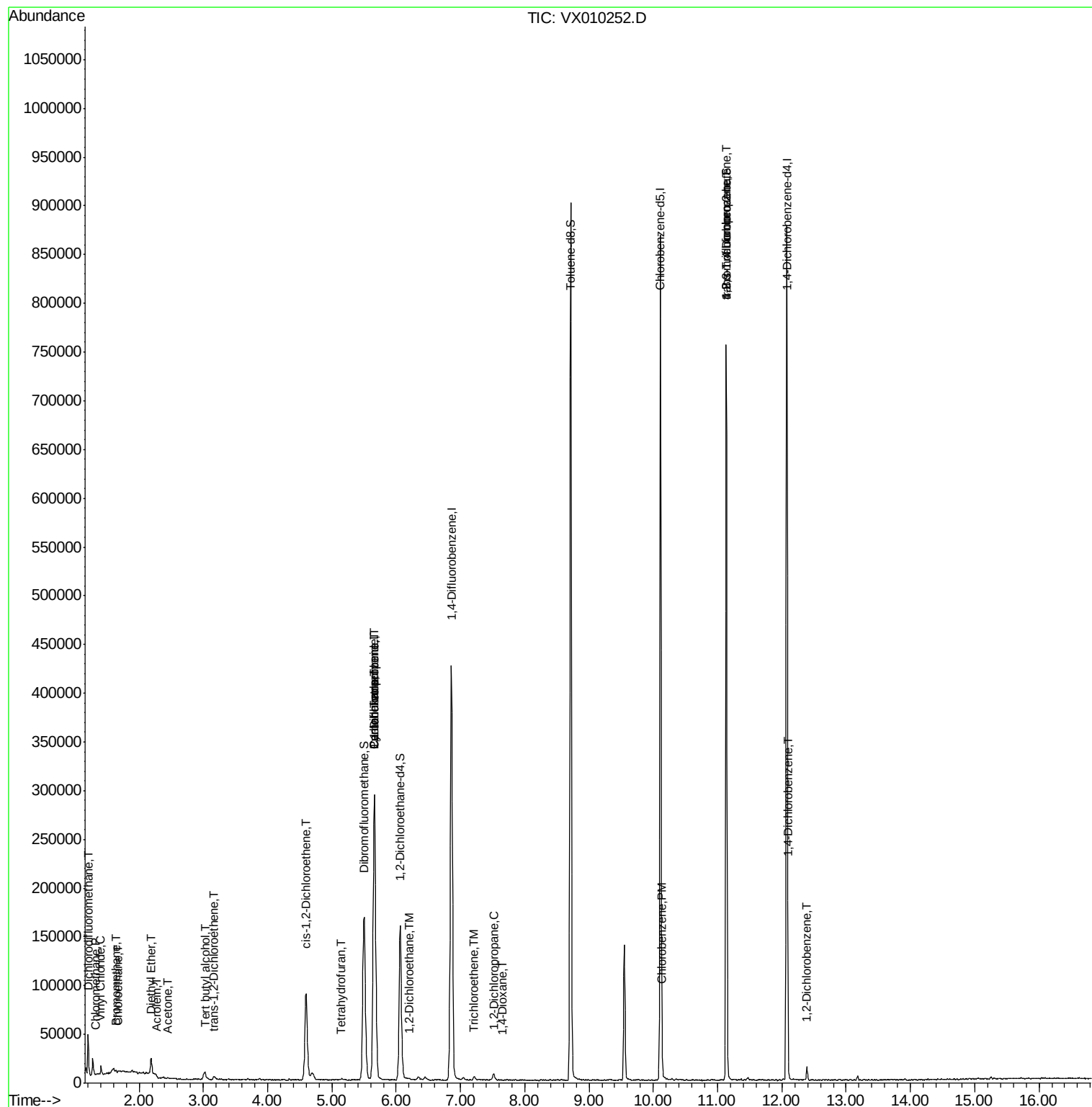
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	878	0.303	ug/l #	66
3) Chloromethane	1.32	50	575	0.200	ug/l #	33
4) Vinyl Chloride	1.41	62	5673	2.101	ug/l	98
5) Bromomethane	1.65	94	259	0.254	ug/l #	29
6) Chloroethane	1.68	64	624	0.458	ug/l #	43
8) Diethyl Ether	2.19	74	6326	4.576	ug/l	71
11) Tert butyl alcohol	3.03	59	6549	8.711	ug/l #	85
13) Acrolein	2.28	56	51	0.372	ug/l #	14
16) Acetone	2.44	43	793	0.549	ug/l	93
21) trans-1,2-Dichloroethene	3.17	96	1472	0.471	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	64532	18.561	ug/l	69
29) Tetrahydrofuran	5.15	42	1258	0.931	ug/l #	63
31) Cyclohexane	5.66	56	4933	1.105	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18606	4.780	ug/l #	52
38) Carbon Tetrachloride	5.67	117	27442	6.229	ug/l #	15
42) 1,2-Dichloroethane	6.20	62	1427	0.371	ug/l	94
44) Trichloroethene	7.21	130	884	0.244	ug/l	93
45) 1,2-Dichloropropane	7.52	63	2429	0.806	ug/l #	86
49) 1,4-Dioxane	7.65	88	21	0.233	ug/l #	1
65) Chlorobenzene	10.14	112	5789	0.660	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	86733	21.791	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	86733	48.146	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	6345	0.935	ug/l #	74
91) 1,2-Dichlorobenzene	12.39	146	4384	0.670	ug/l	97

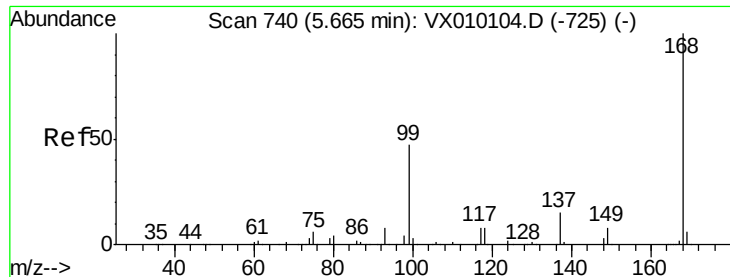
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

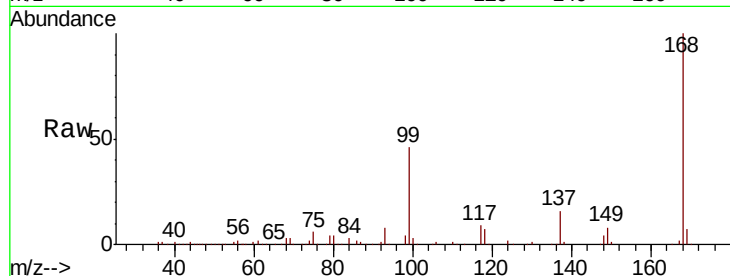
LF017MW005-190610

Tot Ion:168 Resp: 314408

Ion Ratio Lower Upper

168 100

99 45.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

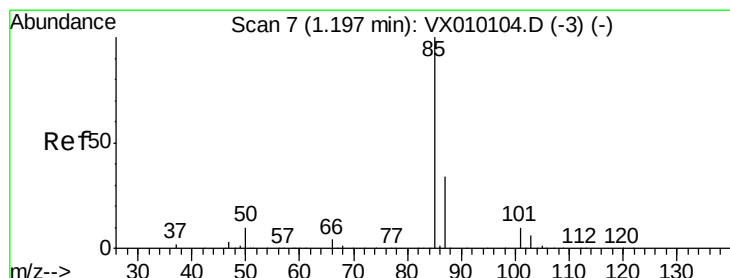
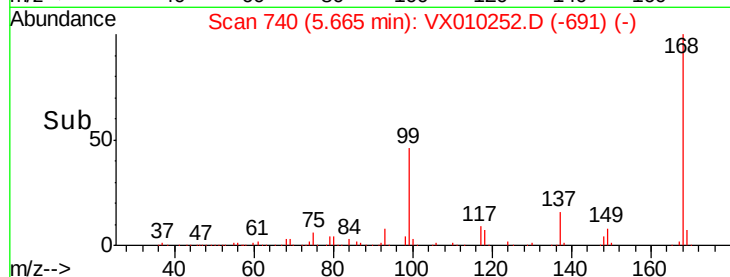
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.303 ug/l

RT: 1.21 min Scan# 9

Delta R.T. 0.01 min

Lab File: VX010252.D

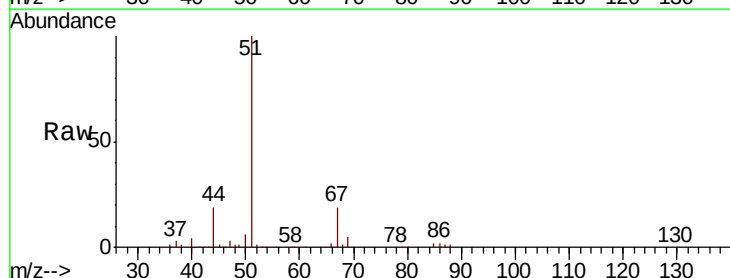
Acq: 12 Jun 2019 15:48

Tgt Ion: 85 Resp: 878

Ion Ratio Lower Upper

85 100

87 51.0 16.1 48.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

800

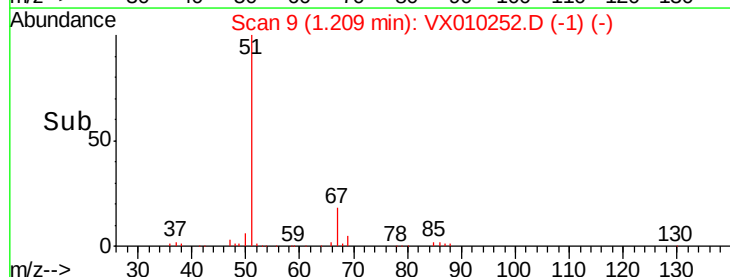
600

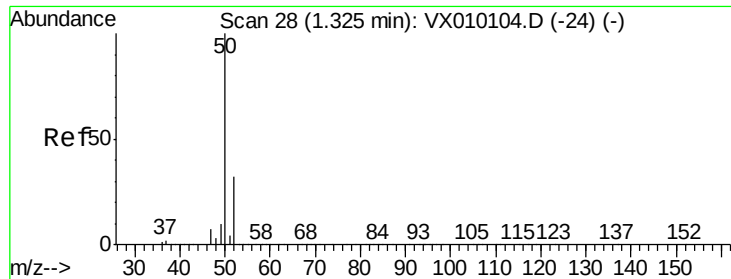
400

200

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.200 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

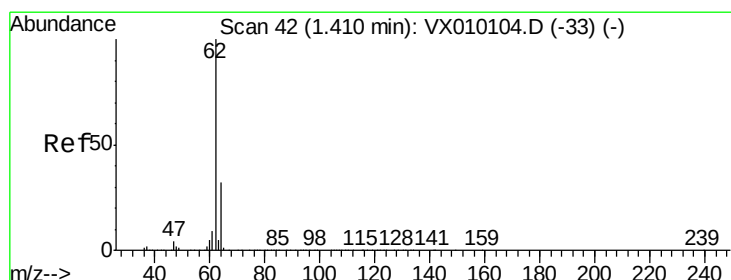
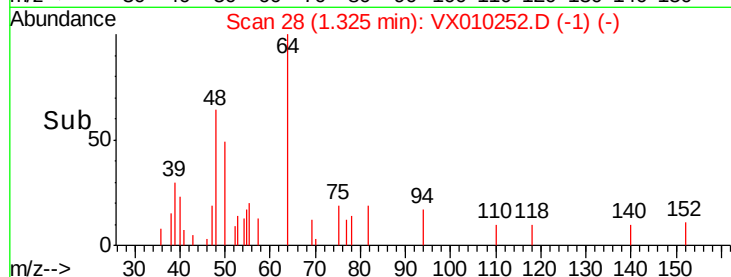
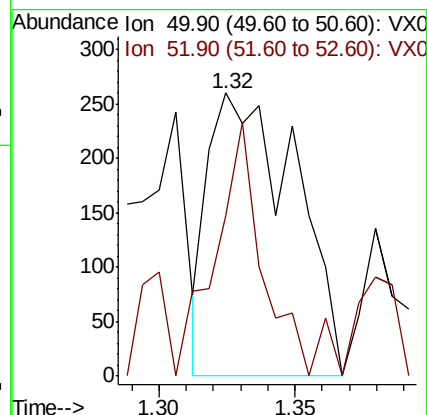
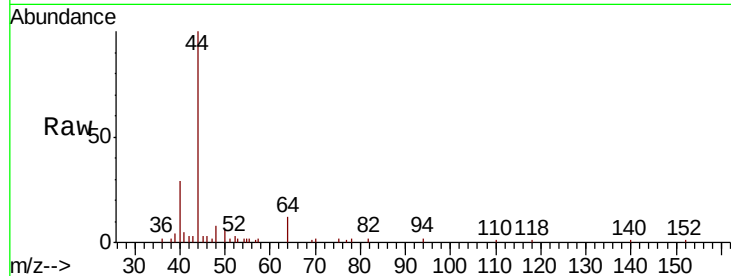
LF017MW005-190610

Tot Ion: 50 Resp: 575

Ion Ratio Lower Upper

50 100

52 70.3 26.0 39.0#



#4

Vinyl Chloride

Concen: 2.101 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010252.D

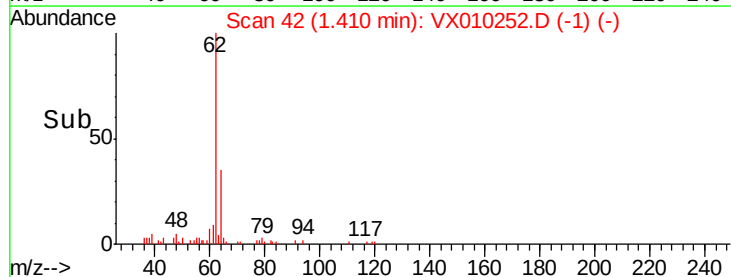
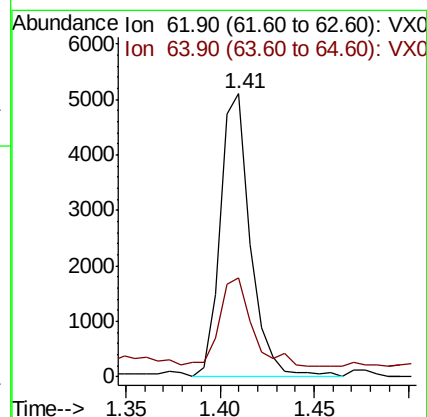
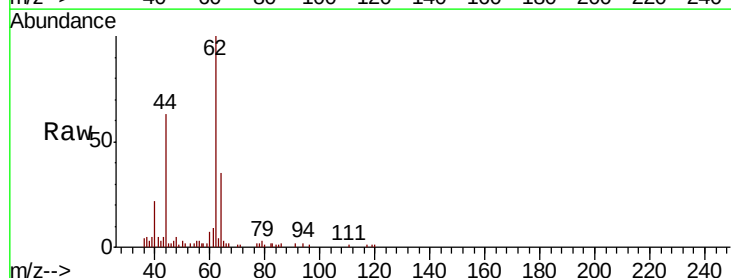
Acq: 12 Jun 2019 15:48

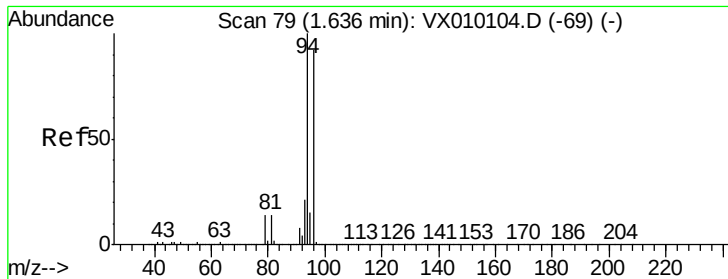
Tgt Ion: 62 Resp: 5673

Ion Ratio Lower Upper

62 100

64 31.2 25.7 38.5





#5

Bromomethane

Concen: 0.254 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

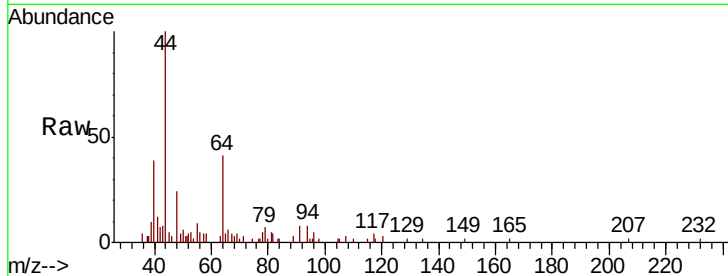
LF017MW005-190610

Tot Ion: 94 Resp: 259

Ion Ratio Lower Upper

94 100

96 25.8 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

250

200

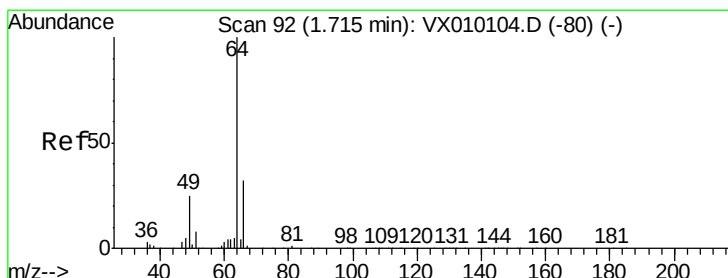
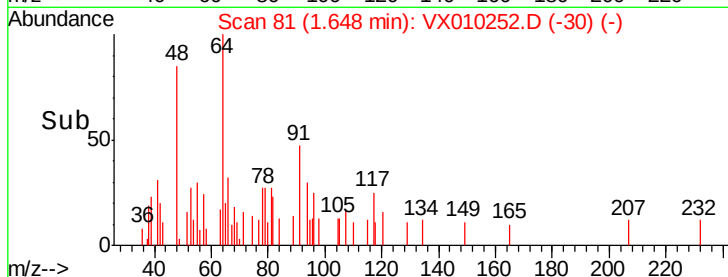
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.458 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX010252.D

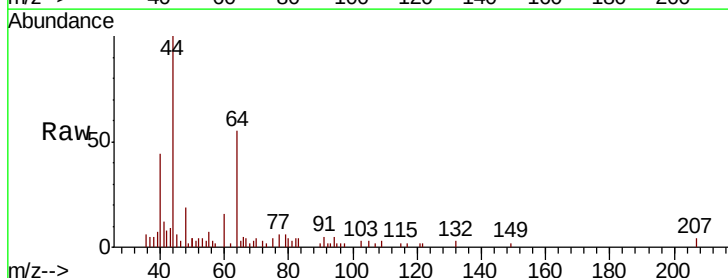
Acq: 12 Jun 2019 15:48

Tgt Ion: 64 Resp: 624

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

1.68

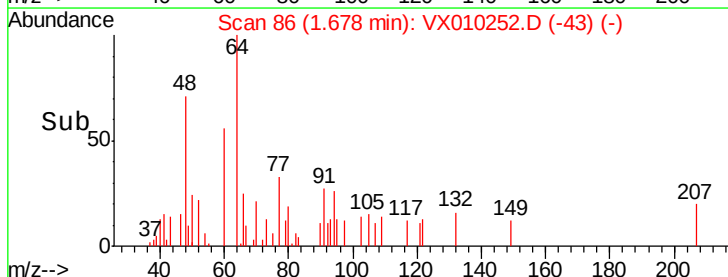
1500

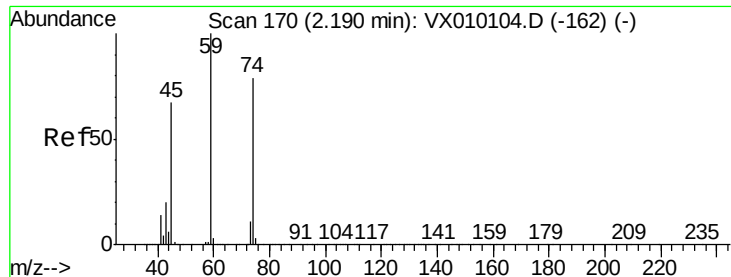
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 4.576 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

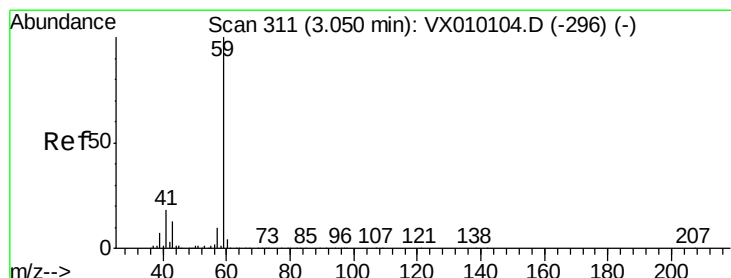
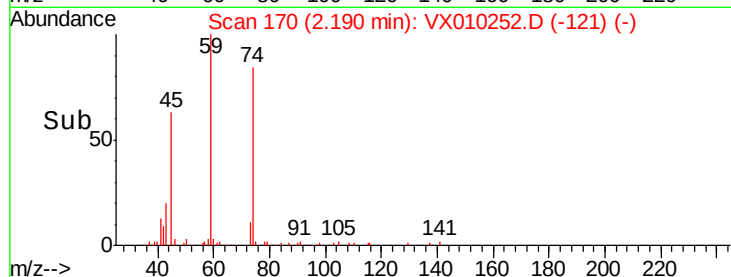
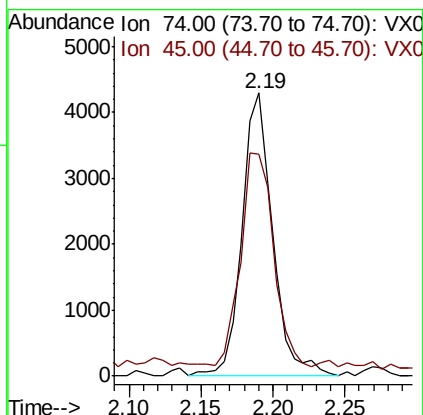
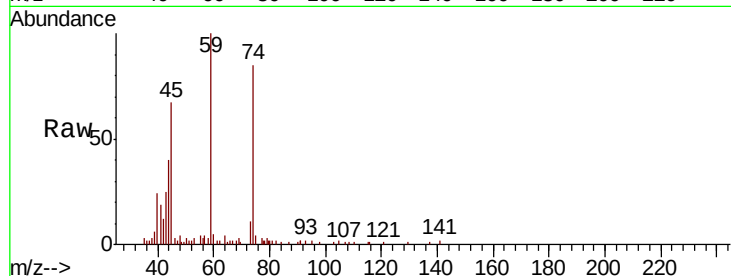
LF017MW005-190610

Tot Ion: 74 Resp: 6326

Ion Ratio Lower Upper

74 100

45 80.8 56.1 168.3



#11

Tert butyl alcohol

Concen: 8.711 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX010252.D

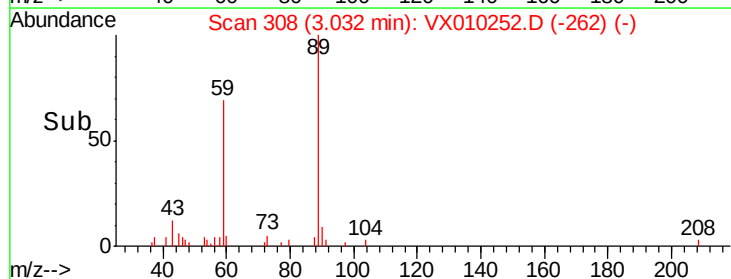
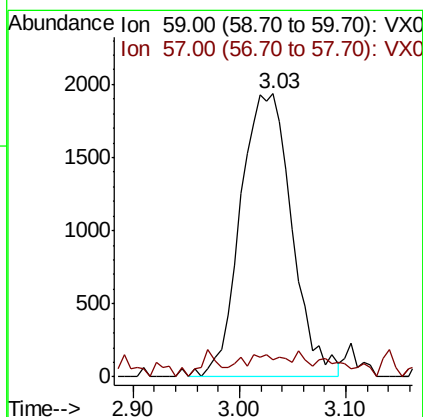
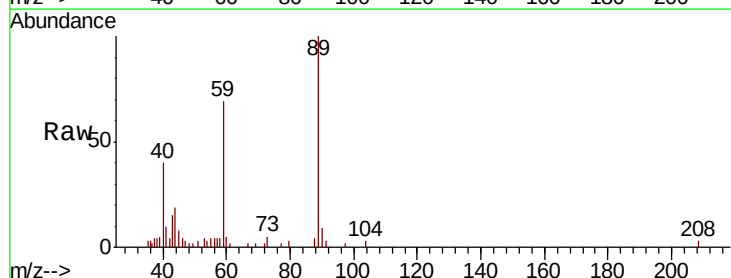
Acq: 12 Jun 2019 15:48

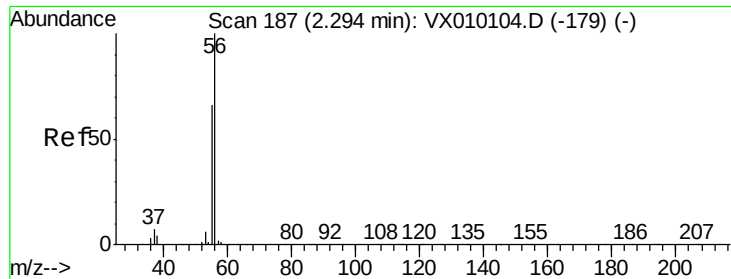
Tgt Ion: 59 Resp: 6549

Ion Ratio Lower Upper

59 100

57 4.5 8.2 12.2#





#13

Acrolein

Concen: 0.372 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

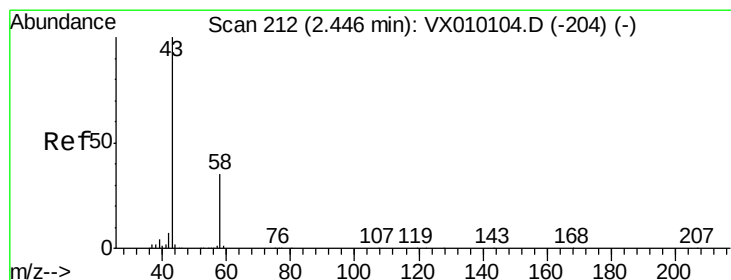
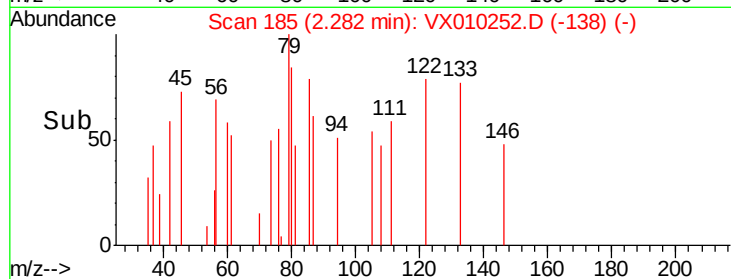
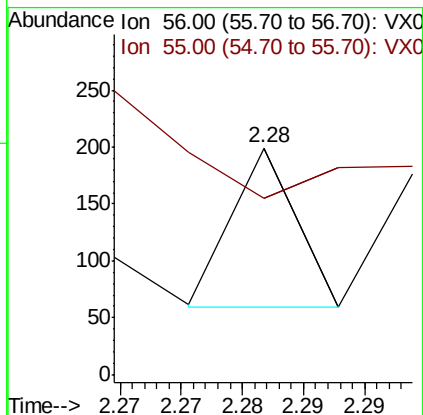
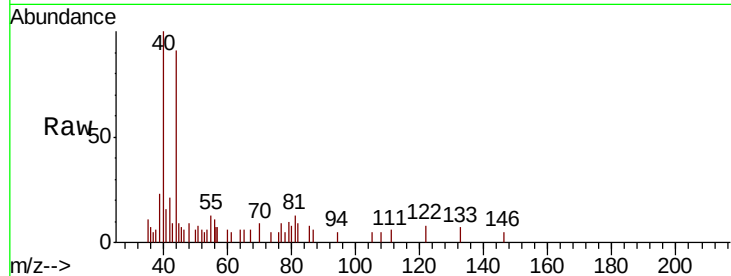
LF017MW005-190610

Tot Ion: 56 Resp: 51

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 0.549 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010252.D

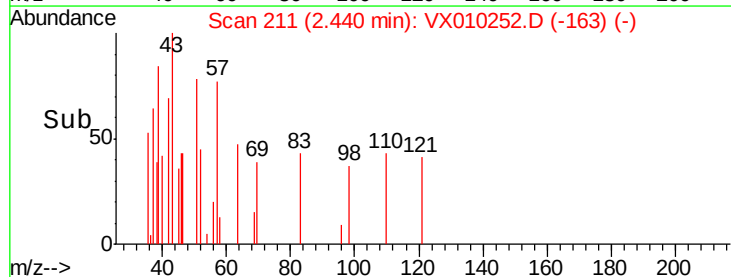
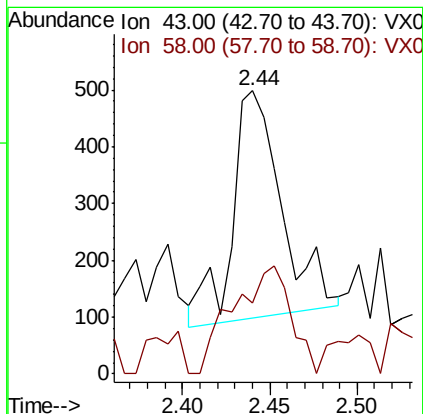
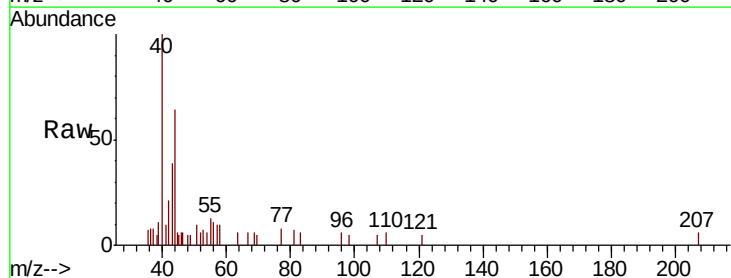
Acq: 12 Jun 2019 15:48

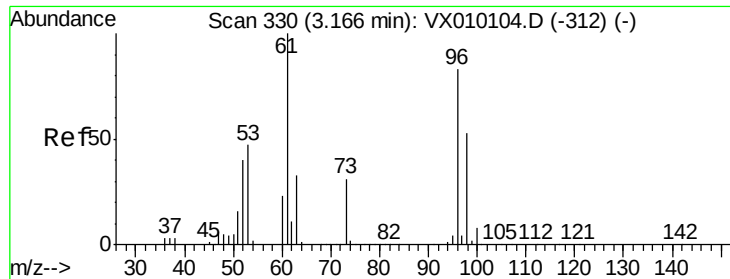
Tgt Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

58 32.8 23.2 34.8





#21

trans-1,2-Dichloroethene

Concen: 0.471 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-190610

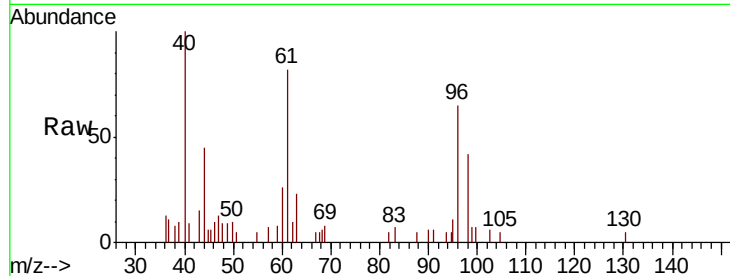
Tot Ion: 96 Resp: 1472

Ion Ratio Lower Upper

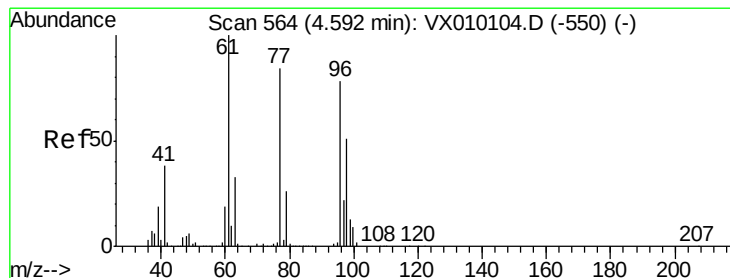
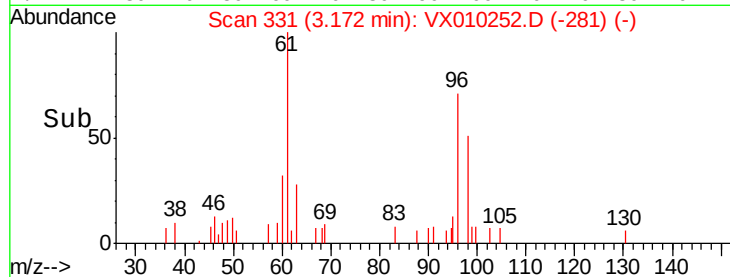
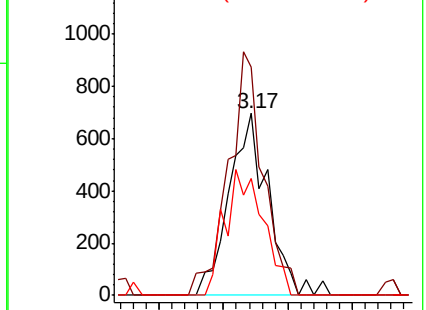
96 100

61 125.3 125.7 188.5#

98 64.4 49.0 73.6



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



#27

cis-1,2-Dichloroethene

Concen: 18.561 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

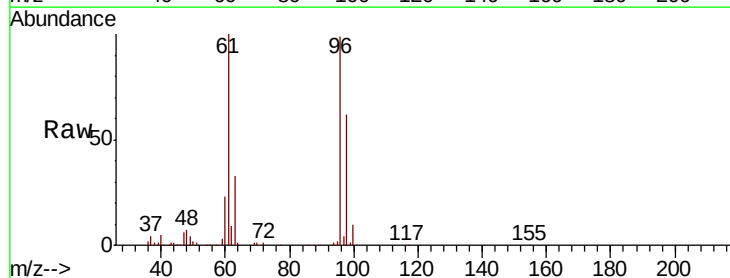
Tgt Ion: 96 Resp: 64532

Ion Ratio Lower Upper

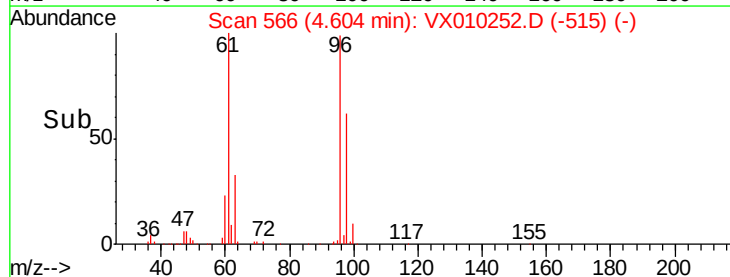
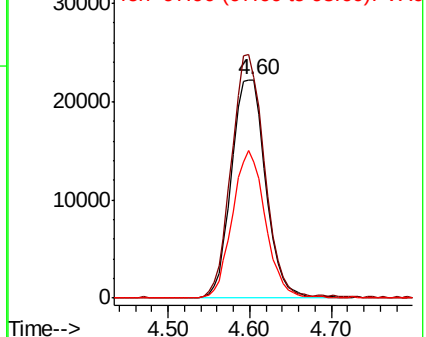
96 100

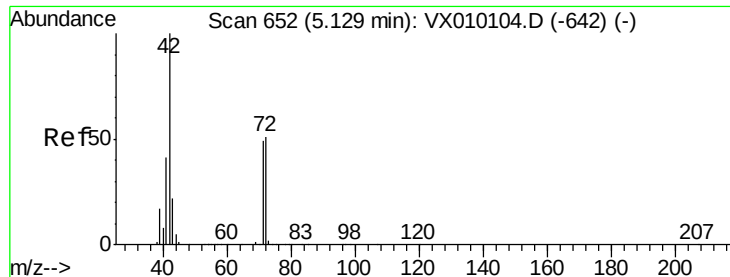
61 107.8 0.0 334.0

98 65.5 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: 0.931 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

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ClientSampleId :

LF017MW005-190610

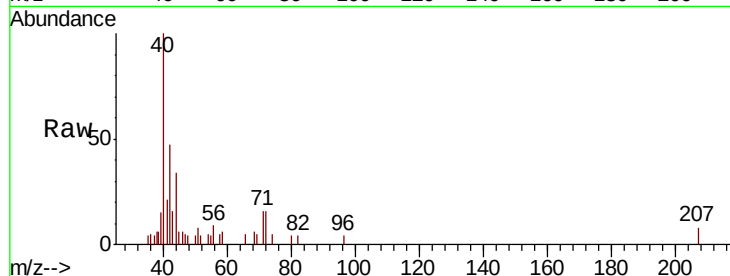
Tot Ion: 42 Resp: 1258

Ion Ratio Lower Upper

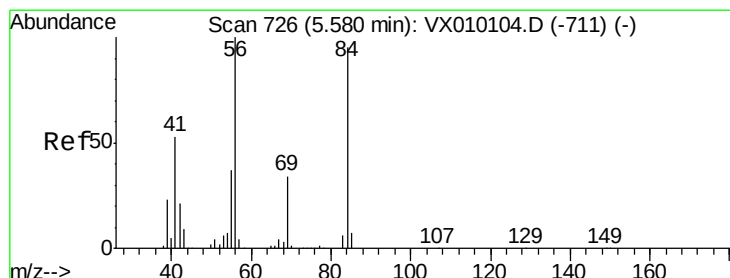
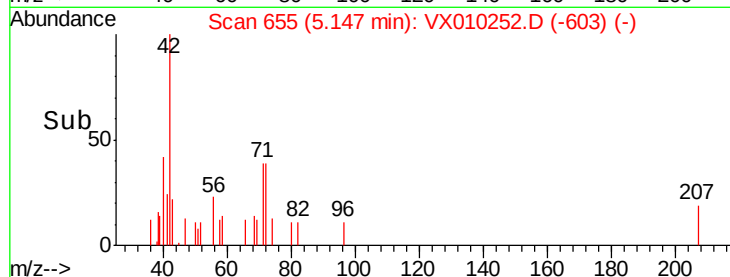
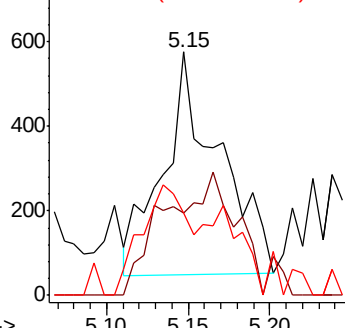
42 100

72 0.0 29.2 43.8#

71 40.6 27.6 41.4



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.105 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

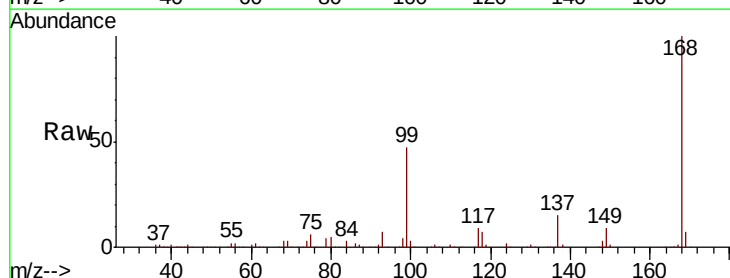
Tgt Ion: 56 Resp: 4933

Ion Ratio Lower Upper

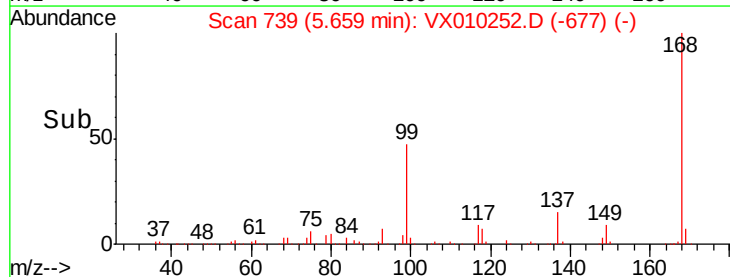
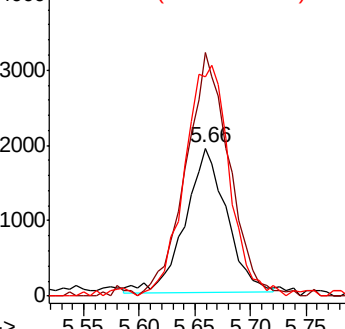
56 100

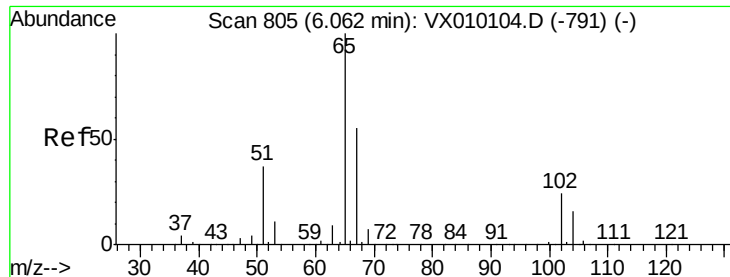
69 169.9 21.6 32.4#

84 150.8 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

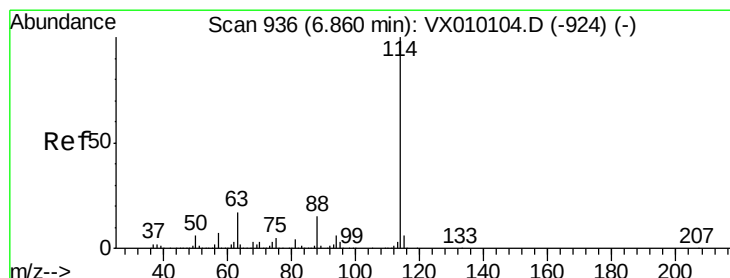
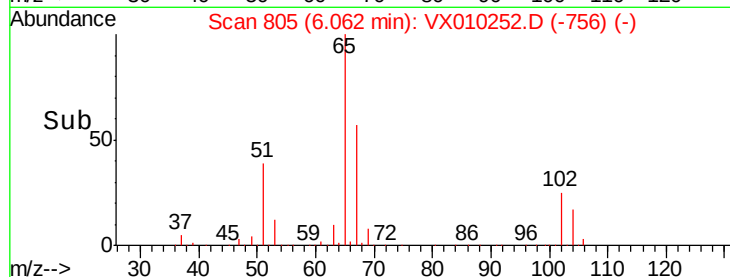
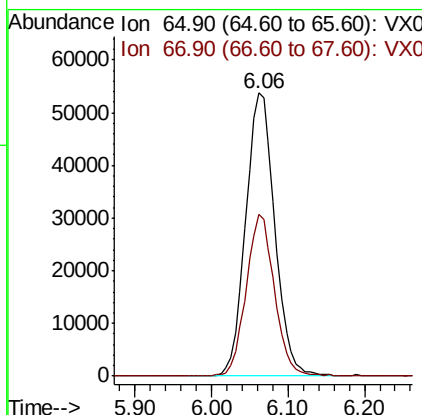
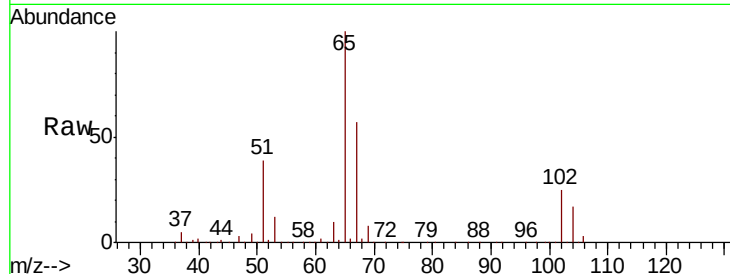




#33
 1,2-Dichloroethane-d4
 Concen: 46.361 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010252.D
 Acq: 12 Jun 2019 15:48

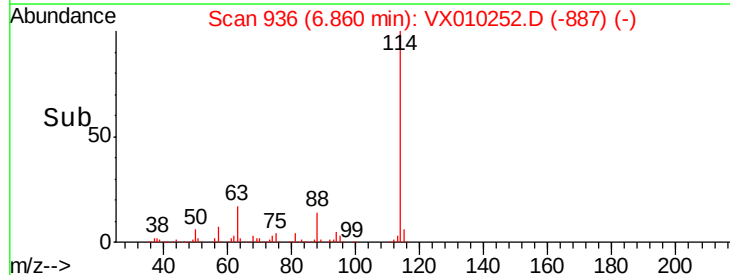
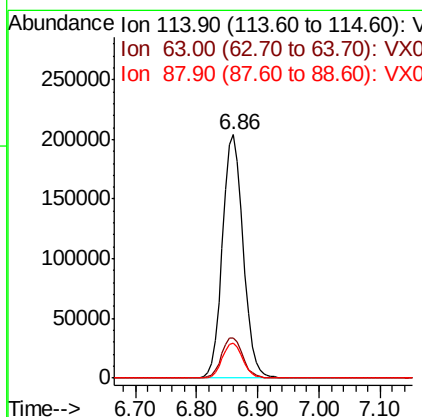
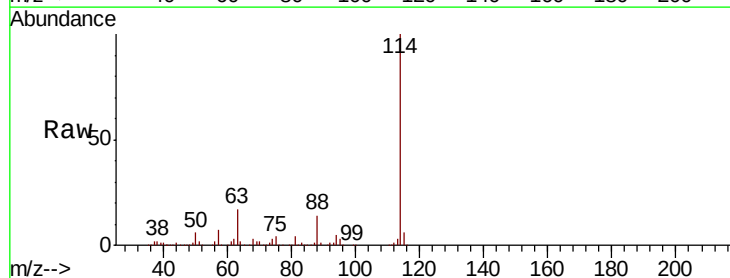
Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-190610

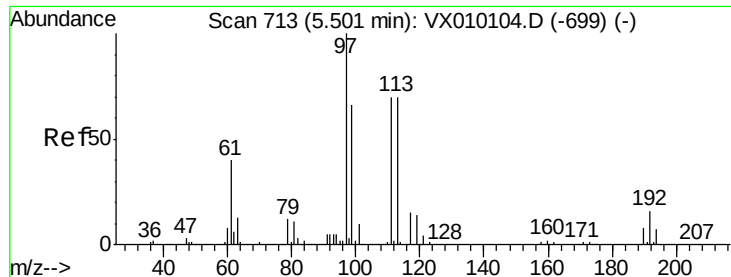
Tot Ion: 65 Resp: 142280
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010252.D
 Acq: 12 Jun 2019 15:48

Tgt Ion: 114 Resp: 477090
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 47.4
 88 14.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.974 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-190610

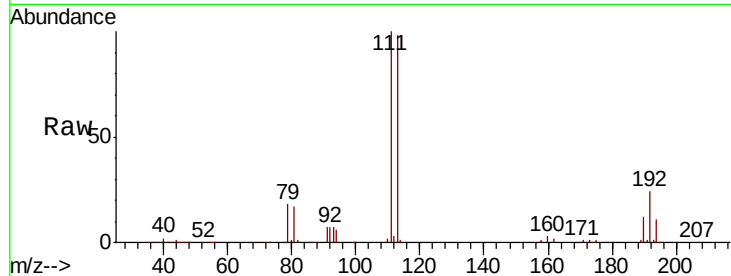
Tot Ion:113 Resp: 144121

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

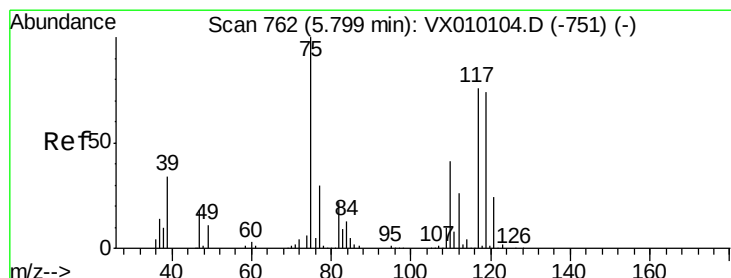
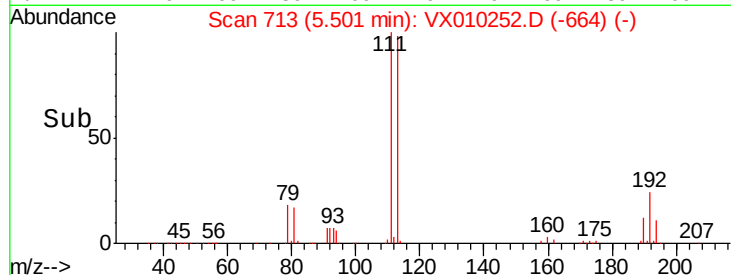
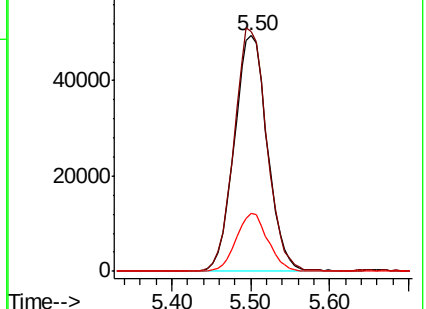
192 23.5 17.1 25.7



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: 4.780 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

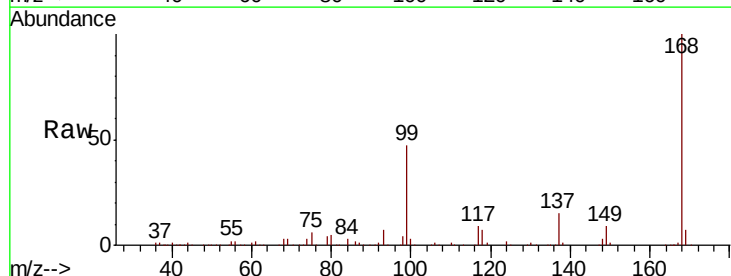
Tgt Ion: 75 Resp: 18606

Ion Ratio Lower Upper

75 100

110 10.8 16.7 50.1#

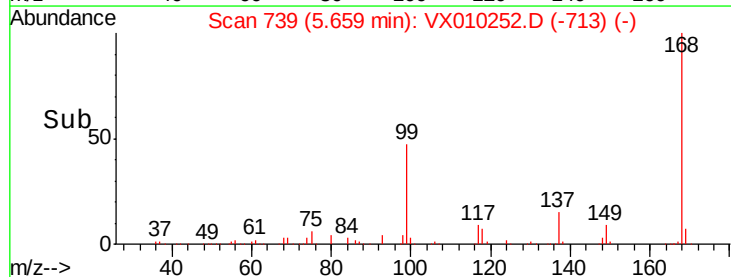
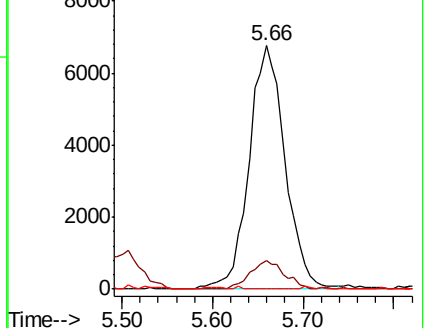
77 0.0 25.0 37.4#

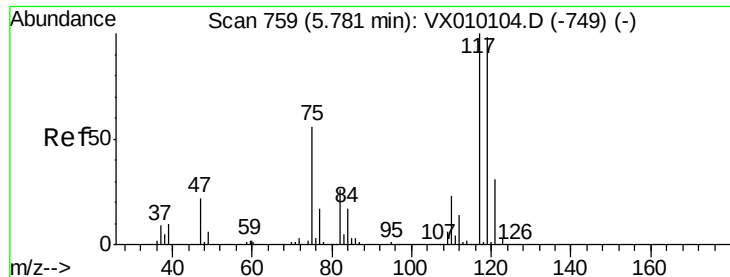


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.229 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-190610

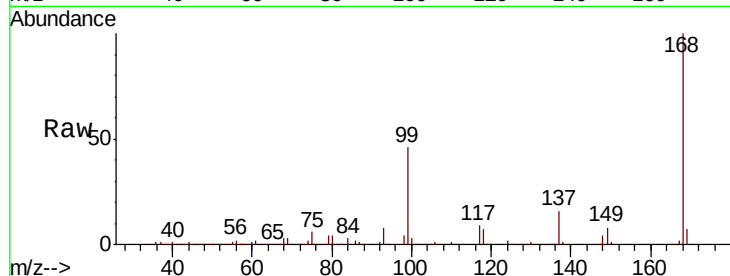
Tot Ion:117 Resp: 27442

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

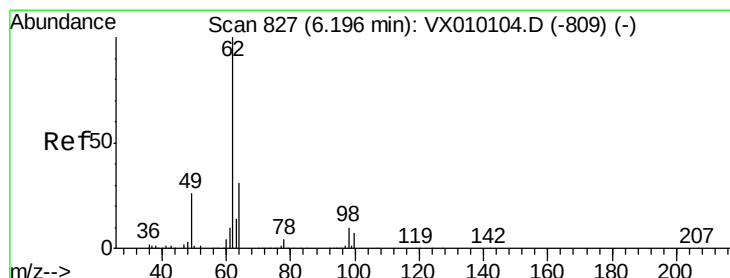
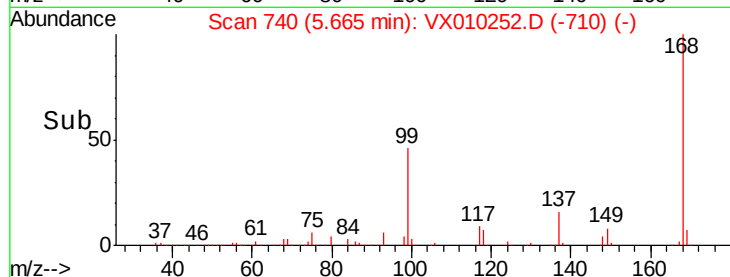
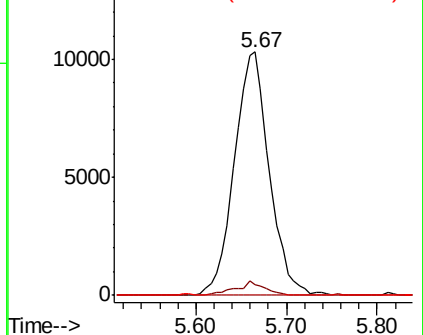
121 0.0 25.4 38.0#



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



#42

1,2-Dichloroethane

Concen: 0.371 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX010252.D

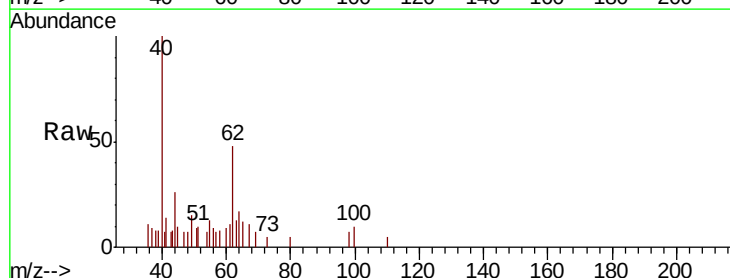
Acq: 12 Jun 2019 15:48

Tgt Ion: 62 Resp: 1427

Ion Ratio Lower Upper

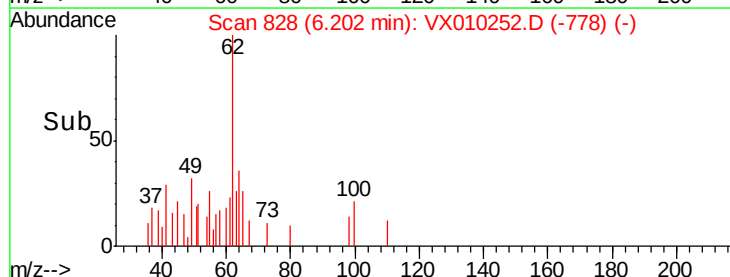
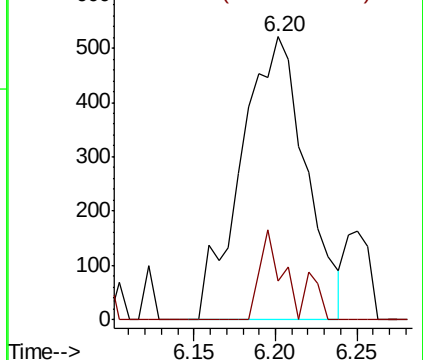
62 100

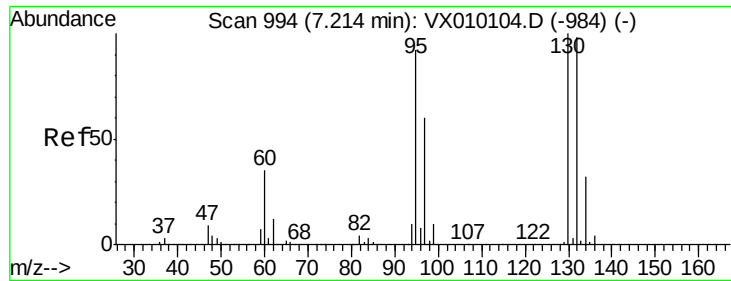
98 10.9 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.244 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

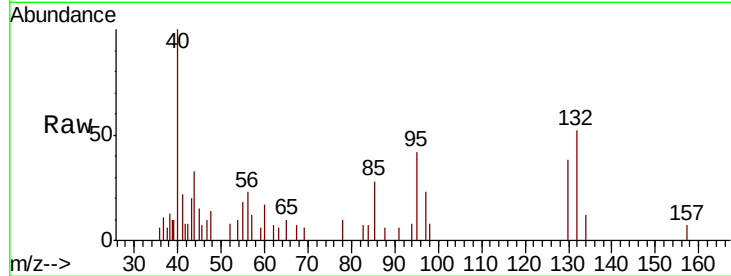
LF017MW005-190610

Tot Ion:130 Resp: 884

Ion Ratio Lower Upper

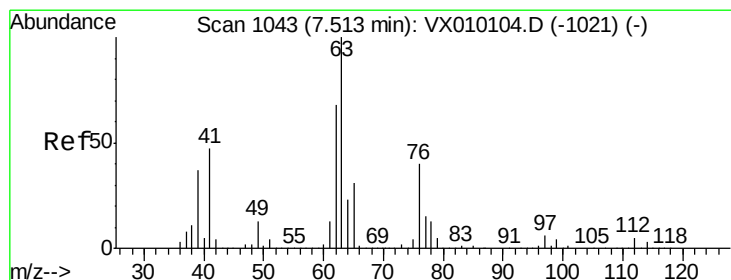
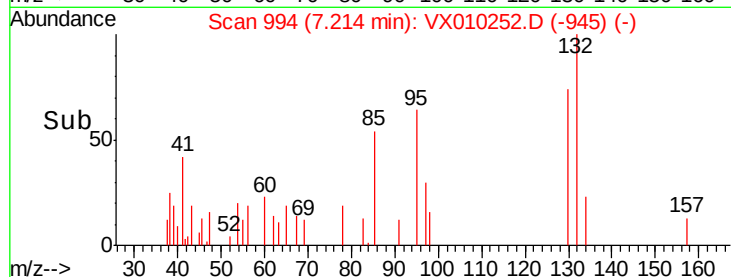
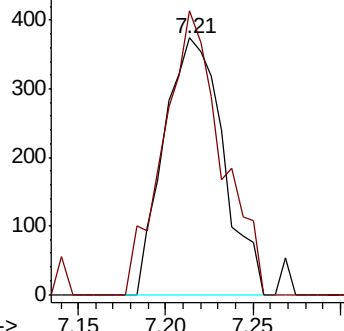
130 100

95 110.4 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 0.806 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VX010252.D

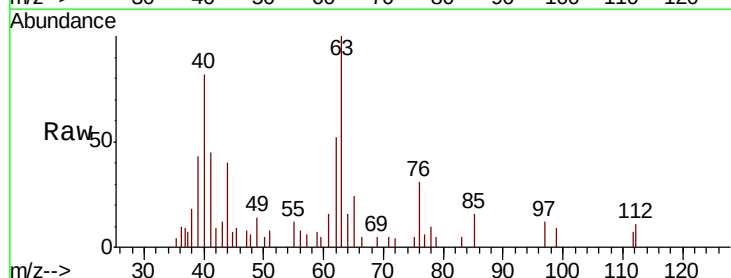
Acq: 12 Jun 2019 15:48

Tgt Ion: 63 Resp: 2429

Ion Ratio Lower Upper

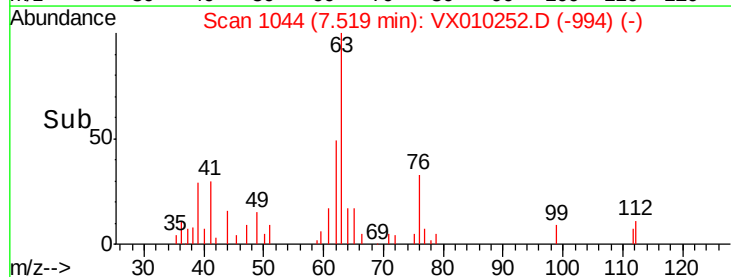
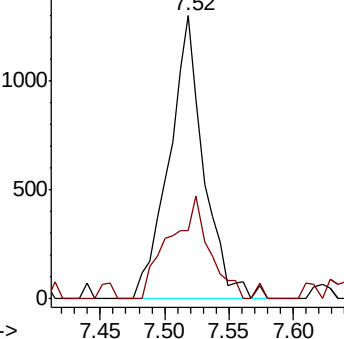
63 100

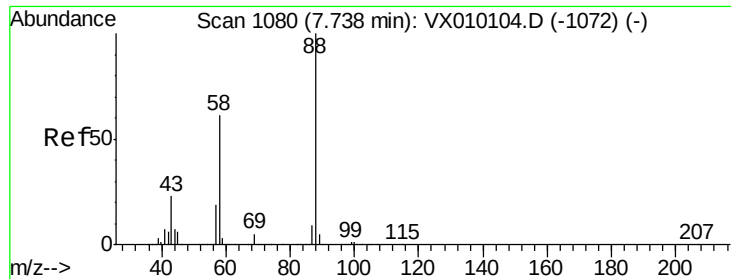
65 24.2 25.7 38.5#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0





#49

1,4-Dioxane

Concen: 0.233 ug/l

RT: 7.65 min Scan# 1066

Delta R.T. -0.09 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-190610

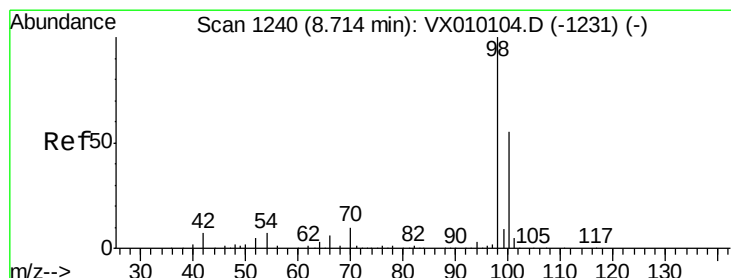
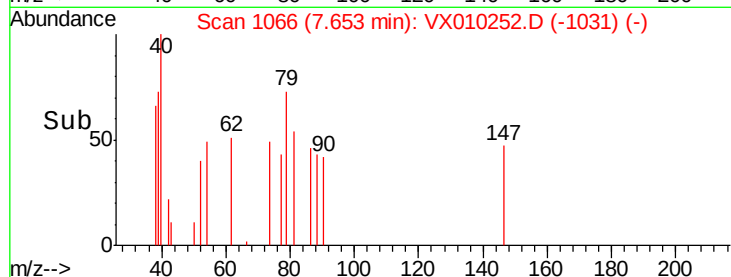
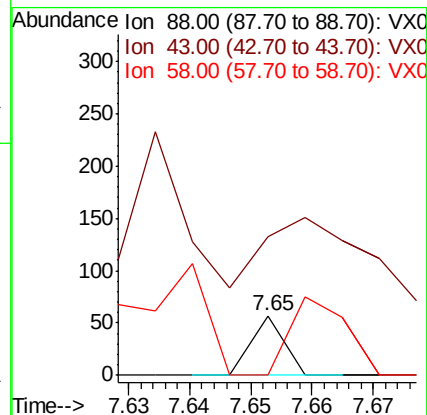
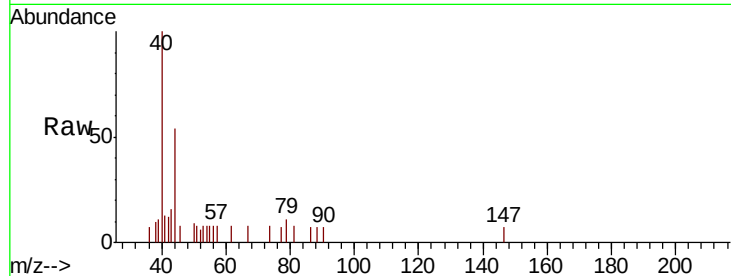
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 542.9 30.2 45.4#

58 228.6 64.0 96.0#



#50

Toluene-d8

Concen: 50.572 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010252.D

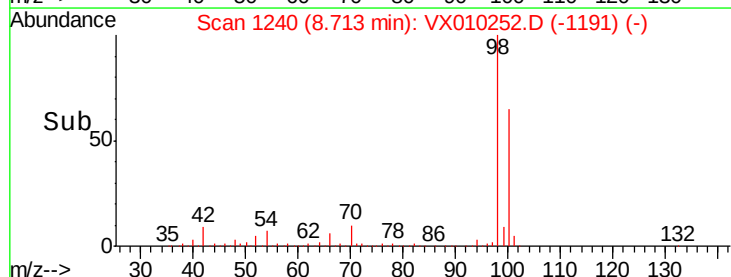
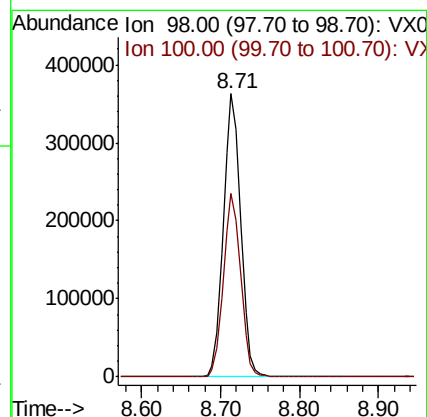
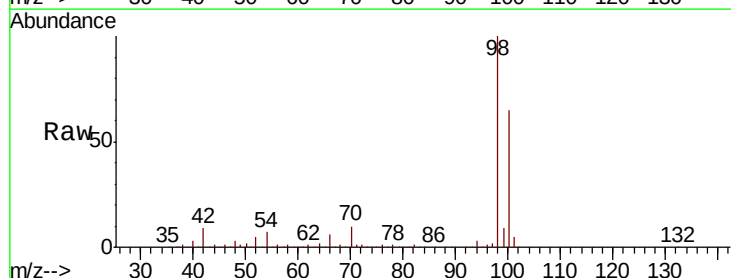
Acq: 12 Jun 2019 15:48

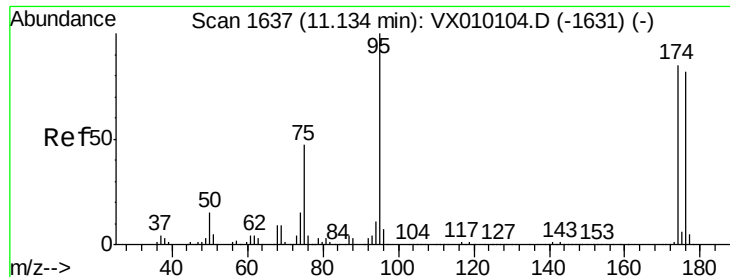
Tgt Ion: 98 Resp: 557763

Ion Ratio Lower Upper

98 100

100 64.3 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 45.961 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-190610

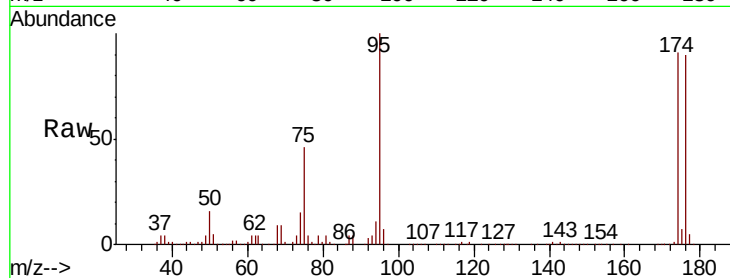
Tot Ion: 95 Resp: 189310

Ion Ratio Lower Upper

95 100

174 95.3 0.0 160.4

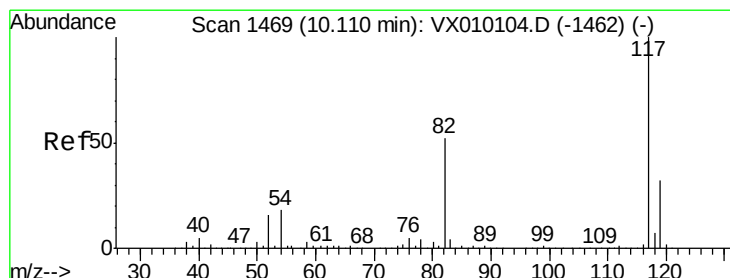
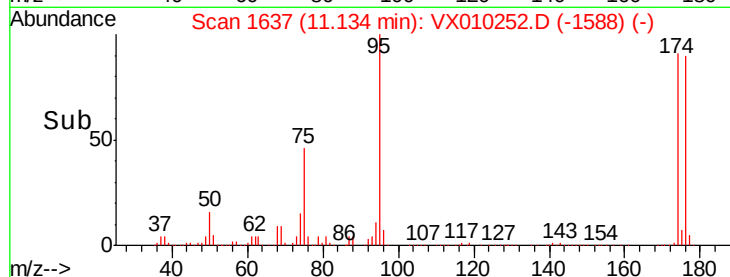
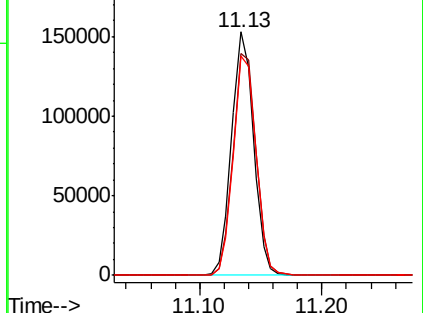
176 93.5 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

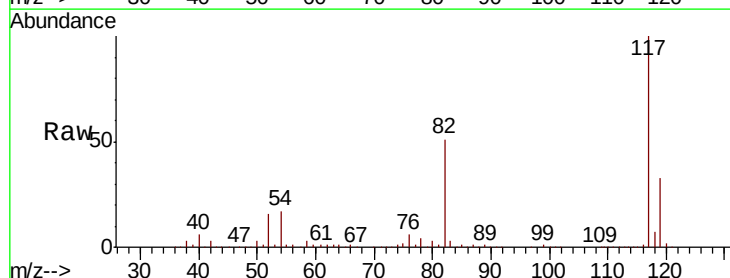
Tgt Ion: 117 Resp: 425230

Ion Ratio Lower Upper

117 100

82 51.1 49.2 73.8

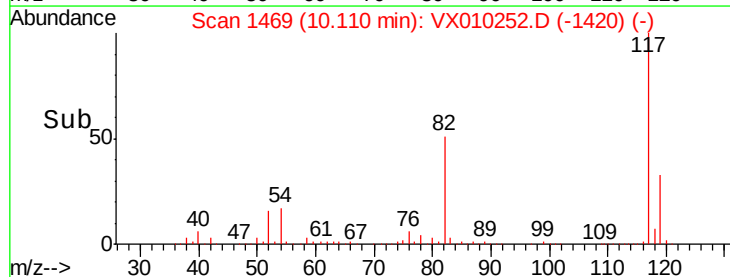
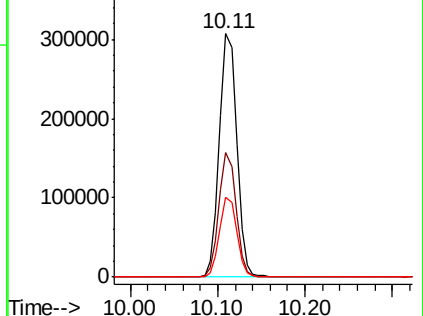
119 32.7 25.2 37.8

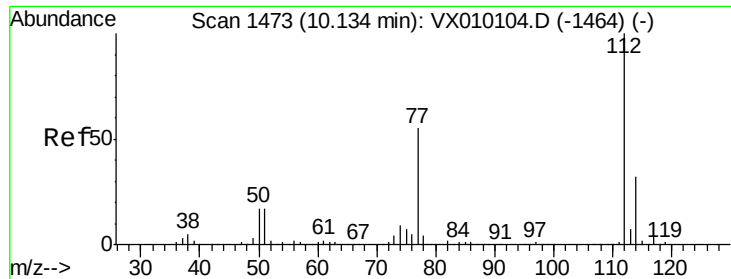


Abundance Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)

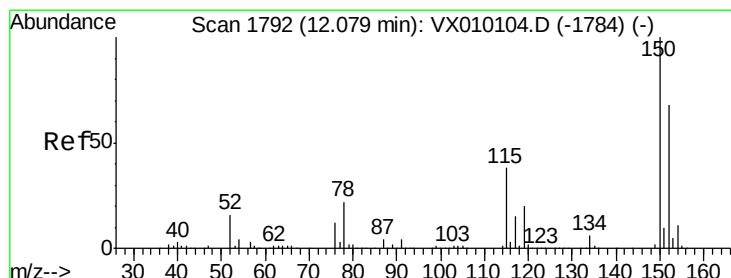
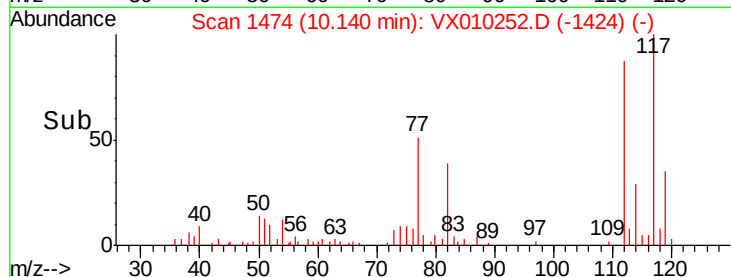
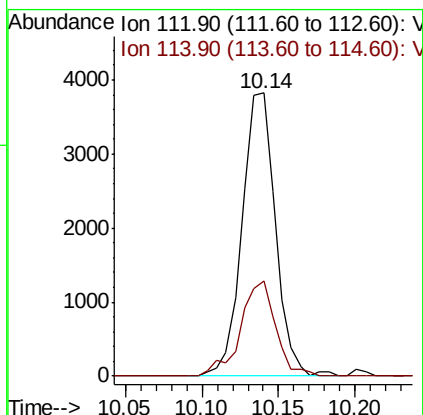
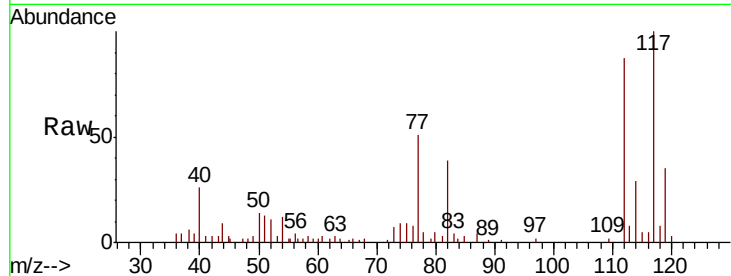




#65
Chlorobenzene
Concen: 0.660 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010252.D
Acq: 12 Jun 2019 15:48

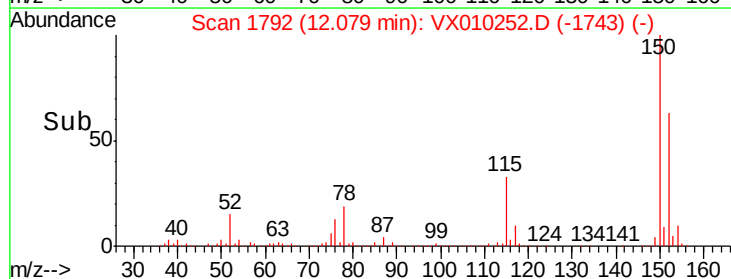
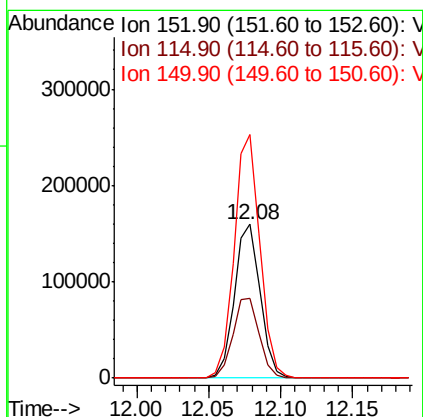
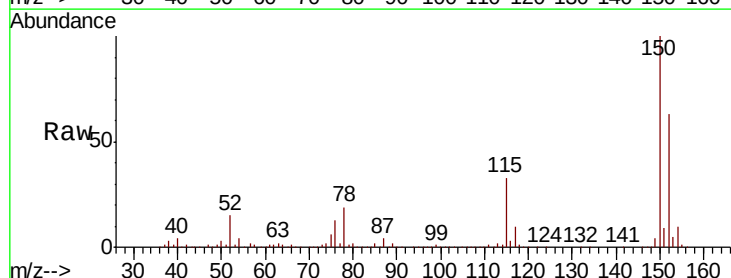
Instrument :
MSVOA_X
ClientSampleId :
LF017MW005-190610

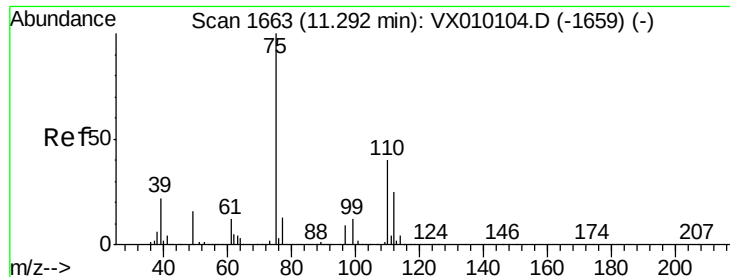
Tot Ion:112 Resp: 5789
Ion Ratio Lower Upper
112 100
114 33.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010252.D
Acq: 12 Jun 2019 15:48

Tgt Ion:152 Resp: 198989
Ion Ratio Lower Upper
152 100
115 53.9 41.4 124.2
150 158.5 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 21.791 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

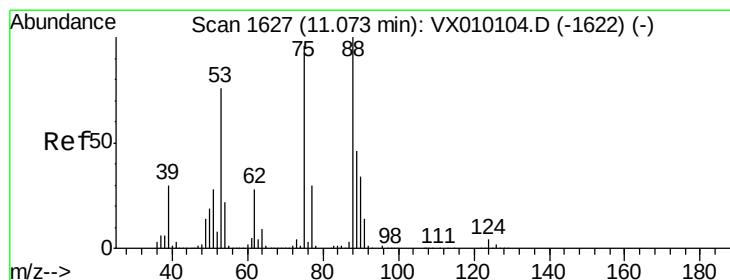
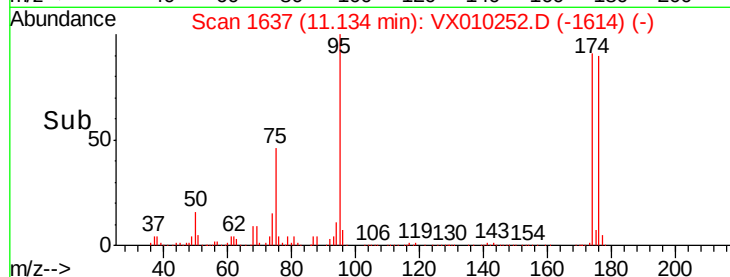
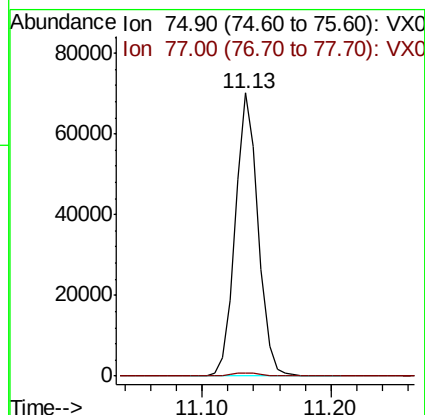
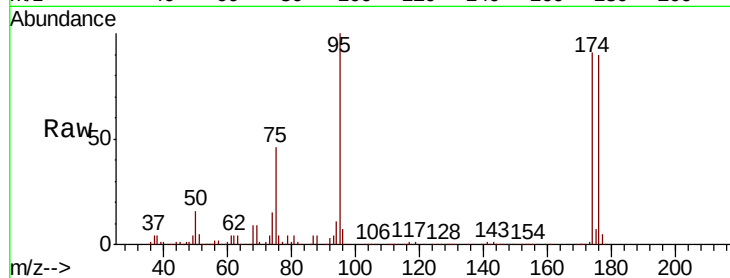
LF017MW005-190610

Tot Ion: 75 Resp: 86733

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.146 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010252.D

Acq: 12 Jun 2019 15:48

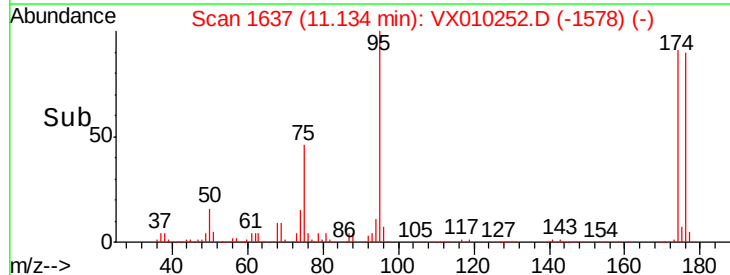
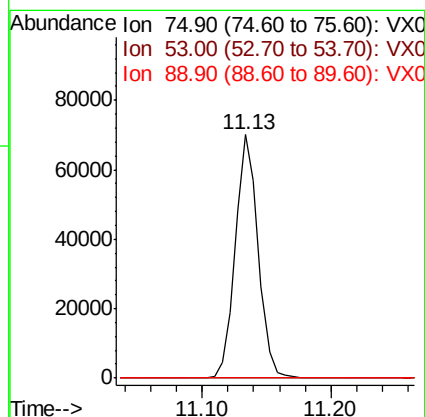
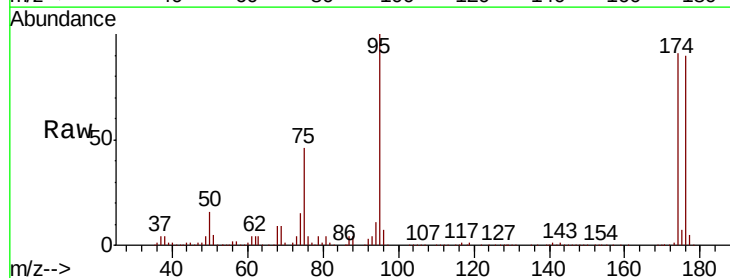
Tgt Ion: 75 Resp: 86733

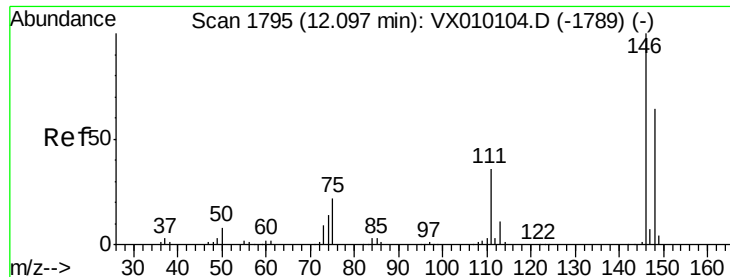
Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.1 34.2 51.4#

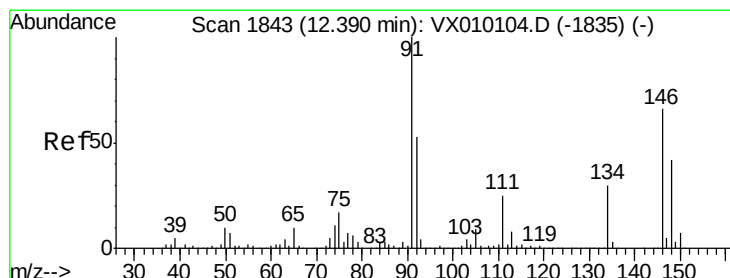
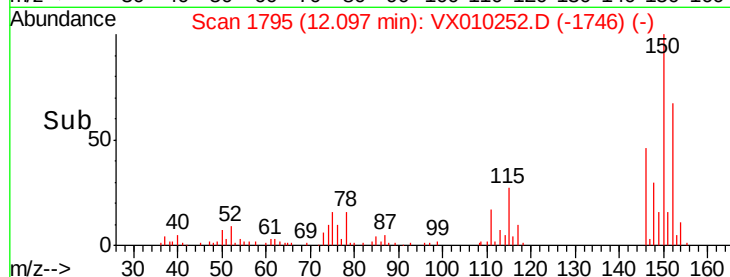
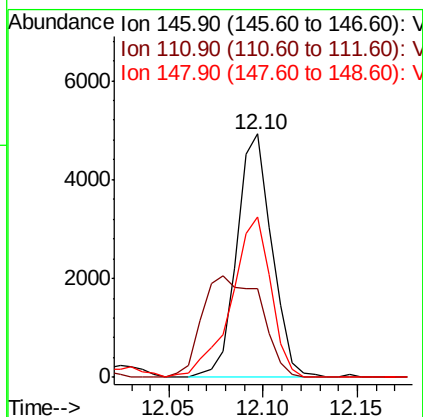
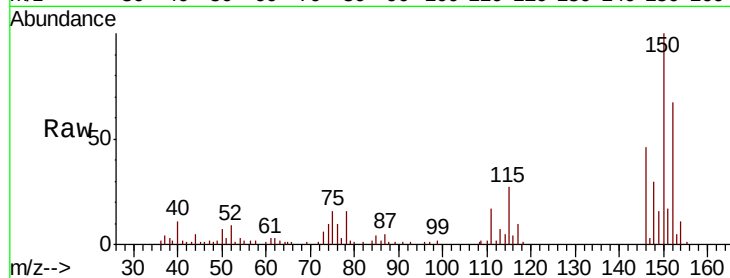




#88
 1,4-Dichlorobenzene
 Concen: 0.935 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010252.D
 Acq: 12 Jun 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-190610

Tot Ion:146 Resp: 6345
 Ion Ratio Lower Upper
 146 100
 111 69.5 20.0 59.9#
 148 74.2 32.3 96.9



#91
 1,2-Dichlorobenzene
 Concen: 0.670 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010252.D
 Acq: 12 Jun 2019 15:48

Tgt Ion:146 Resp: 4384
 Ion Ratio Lower Upper
 146 100
 111 40.0 21.1 63.1
 148 66.3 32.3 96.8

