

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010253.D
 Acq On : 12 Jun 2019 16:11
 Operator : JC/SP
 Sample : K3309-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF016MW001-190610

Quant Time: Jun 13 01:27:35 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	297367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	451017	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	406036	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192774	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	135967	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	5.50	113	138169	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	8.71	98	529510	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	11.13	95	181995	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	

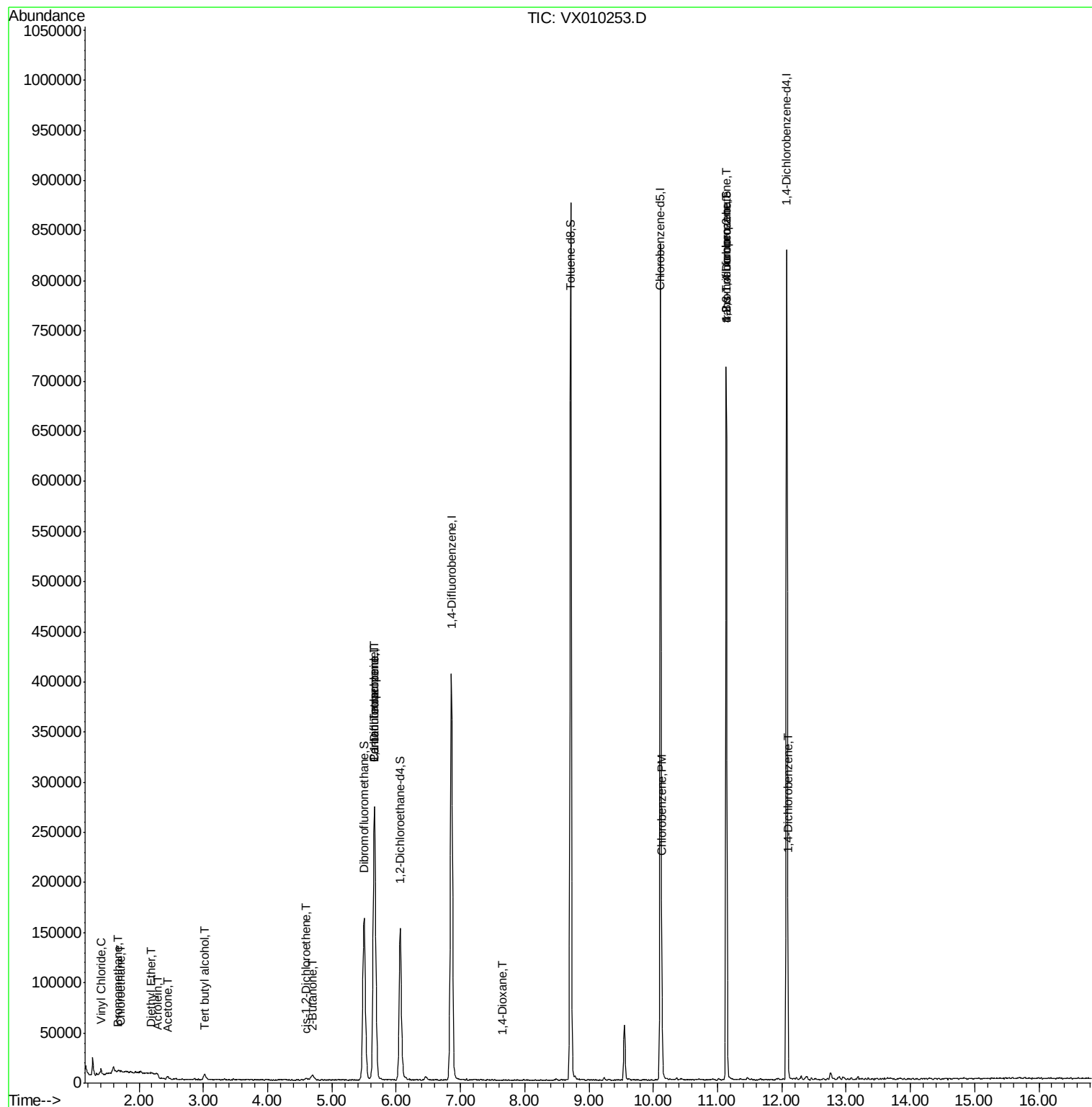
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	3213	1.258	ug/l	91
5) Bromomethane	1.66	94	375	0.389	ug/l	95
6) Chloroethane	1.72	64	515	0.400	ug/l #	47
8) Diethyl Ether	2.19	74	588	0.450	ug/l	67
11) Tert butyl alcohol	3.03	59	4326	6.084	ug/l #	85
13) Acrolein	2.29	56	302	2.329	ug/l #	14
16) Acetone	2.45	43	2392	1.752	ug/l	95
25) 2-Butanone	4.70	43	594	0.292	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	1450	0.441	ug/l	72
36) 1,1-Dichloropropene	5.66	75	17810	4.840	ug/l #	52
38) Carbon Tetrachloride	5.66	117	25749	6.182	ug/l #	16
49) 1,4-Dioxane	7.65	88	19	0.223	ug/l #	1
65) Chlorobenzene	10.13	112	20453	2.441	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	84240	21.847	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84240	48.270	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	7863	1.197	ug/l #	81

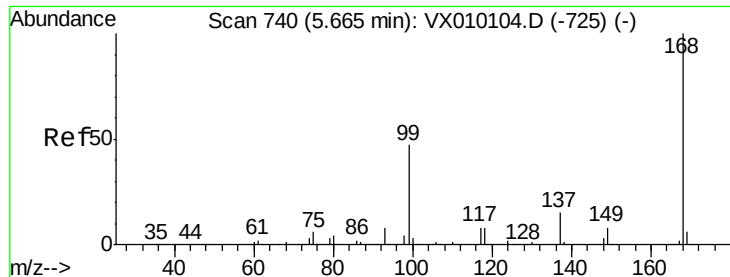
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

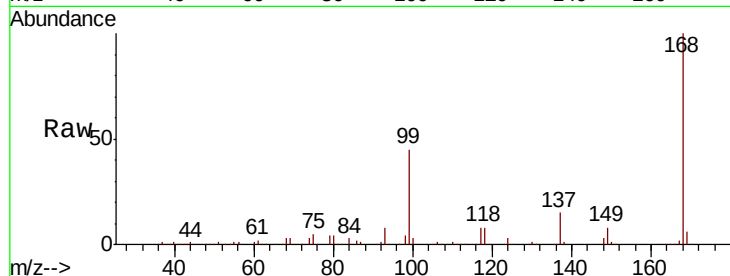
LF016MW001-190610

Tot Ion:168 Resp: 297367

Ion Ratio Lower Upper

168 100

99 45.1 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

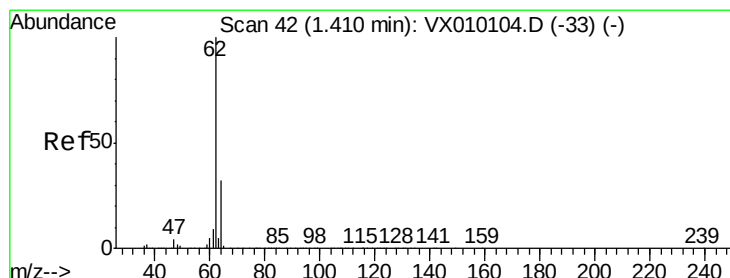
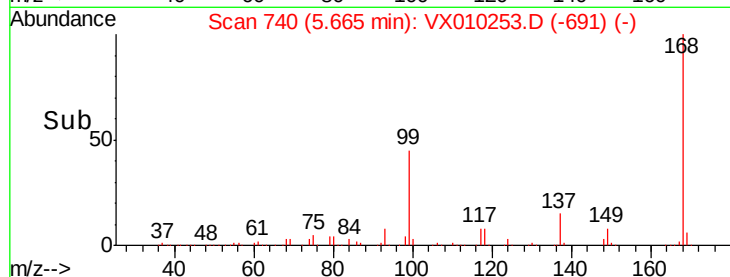
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.258 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX010253.D

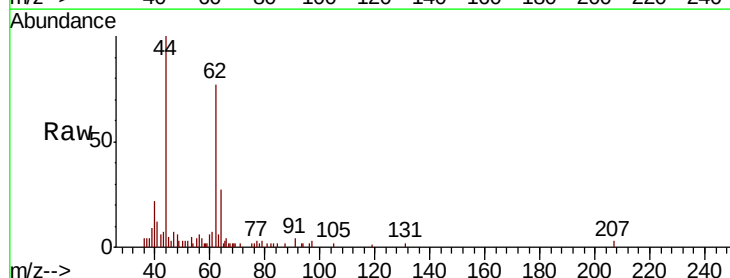
Acq: 12 Jun 2019 16:11

Tgt Ion: 62 Resp: 3213

Ion Ratio Lower Upper

62 100

64 27.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

3000

2500

2000

1500

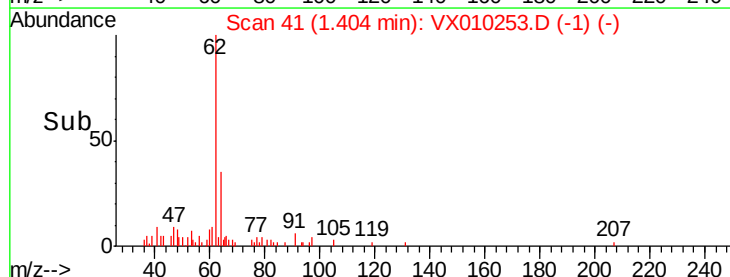
1000

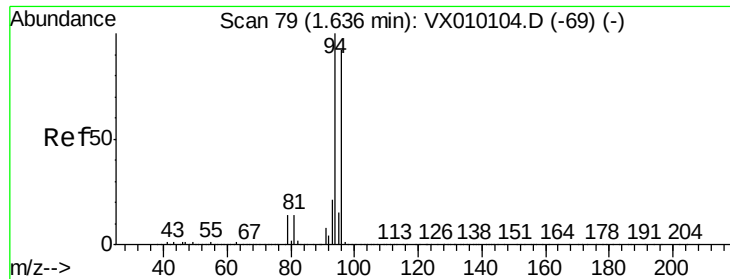
500

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.389 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

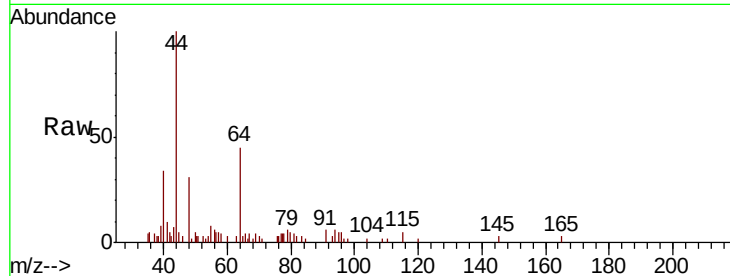
LF016MW001-190610

Tot Ion: 94 Resp: 375

Ion Ratio Lower Upper

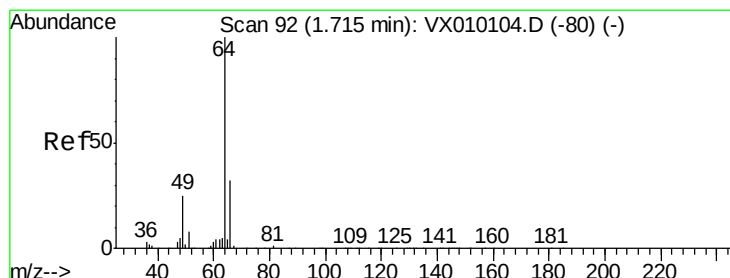
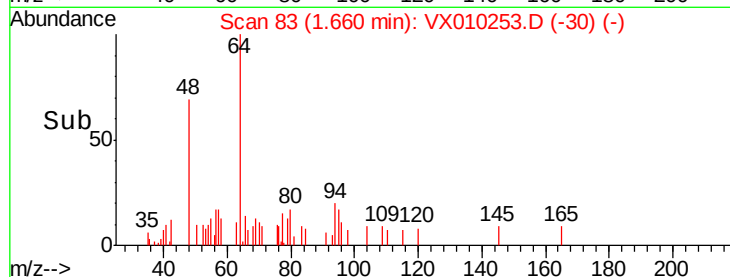
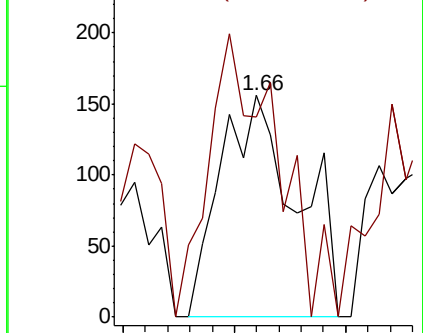
94 100

96 90.4 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.400 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010253.D

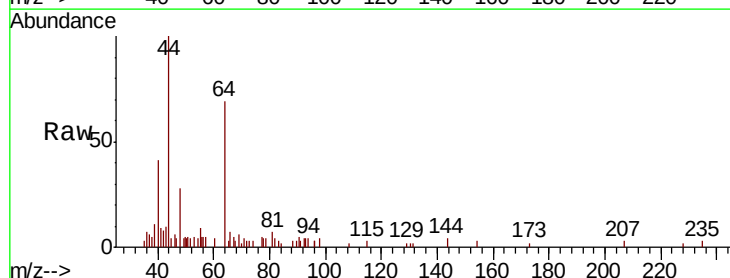
Acq: 12 Jun 2019 16:11

Tgt Ion: 64 Resp: 515

Ion Ratio Lower Upper

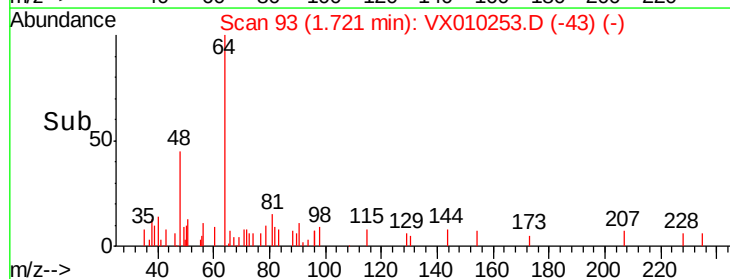
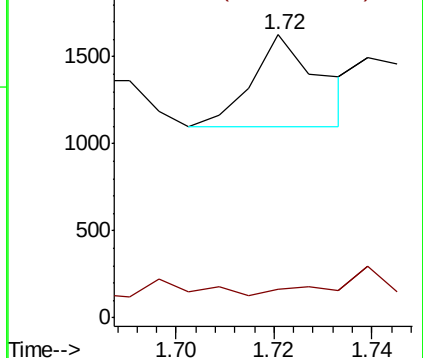
64 100

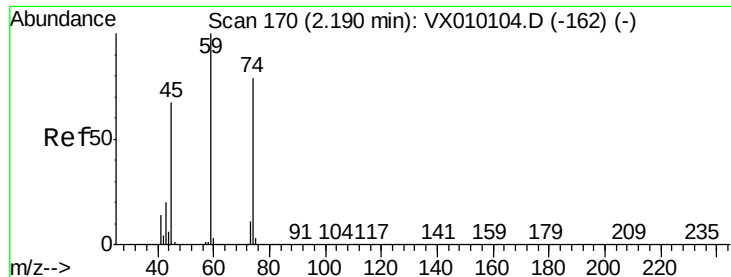
66 2.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.450 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

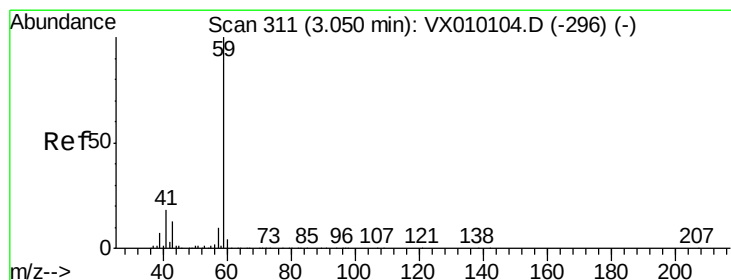
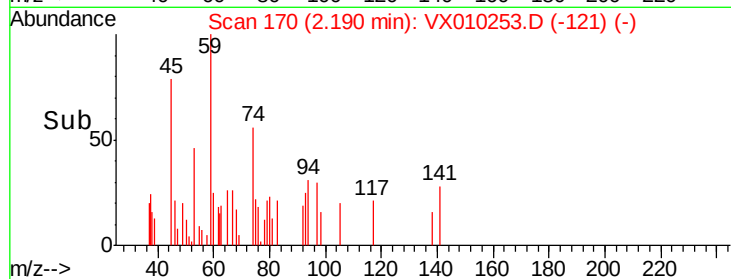
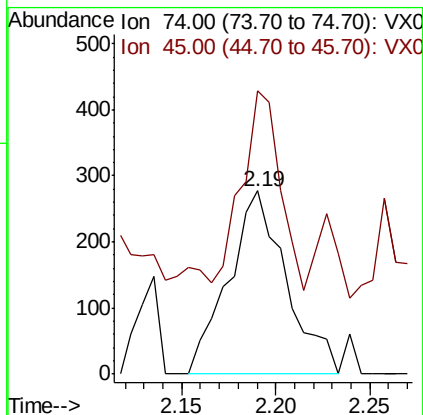
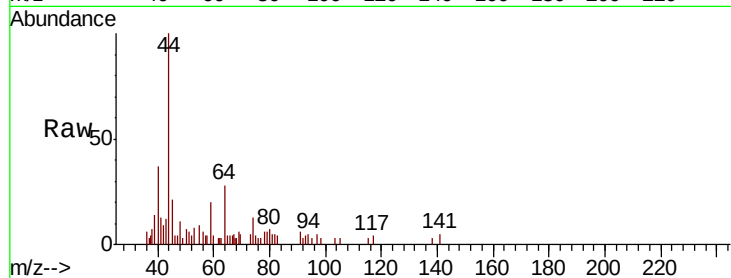
LF016MW001-190610

Tot Ion: 74 Resp: 588

Ion Ratio Lower Upper

74 100

45 76.7 56.1 168.3



#11

Tert butyl alcohol

Concen: 6.084 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010253.D

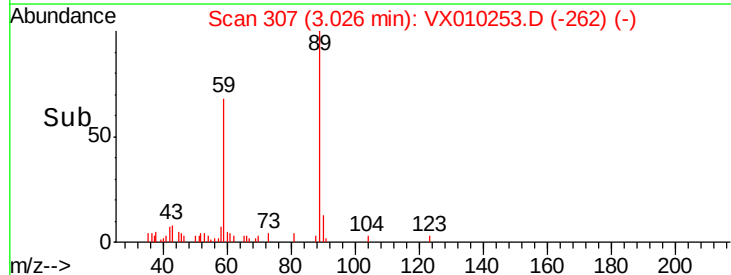
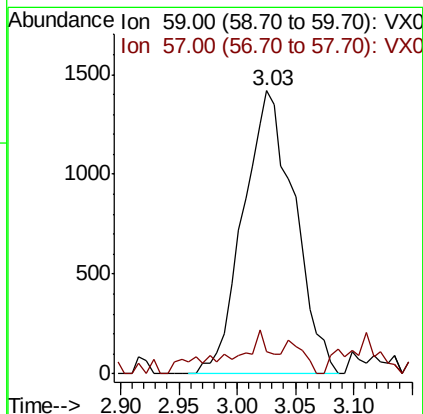
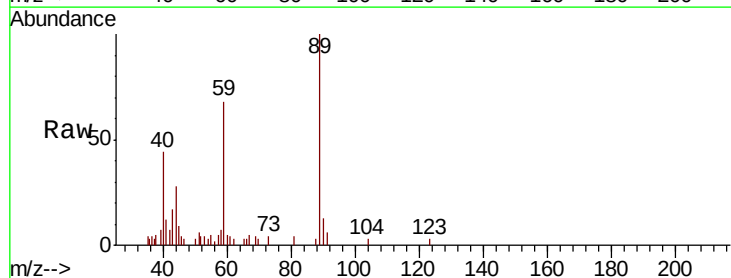
Acq: 12 Jun 2019 16:11

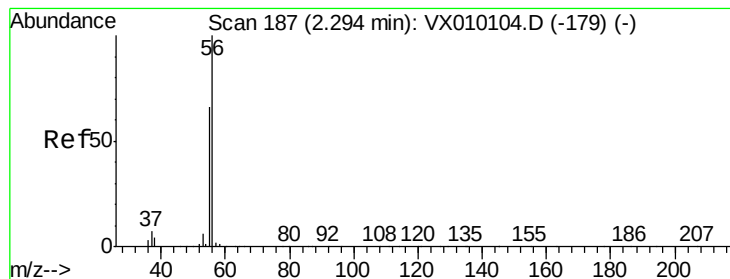
Tgt Ion: 59 Resp: 4326

Ion Ratio Lower Upper

59 100

57 4.6 8.2 12.2#





#13

Acrolein

Concen: 2.329 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

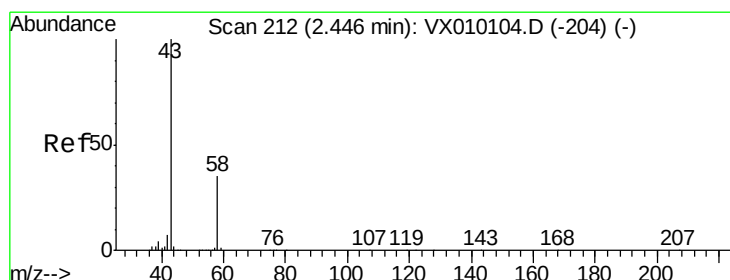
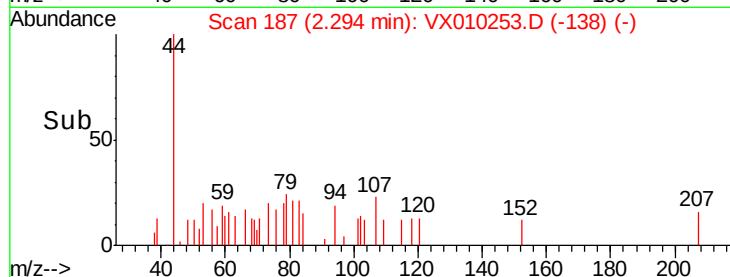
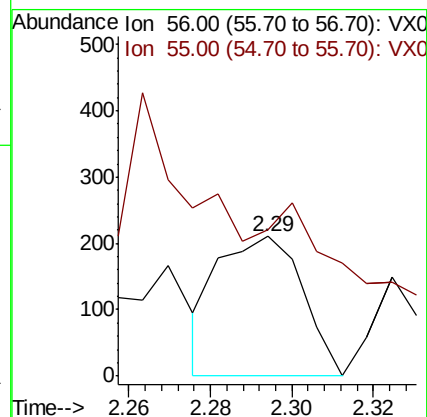
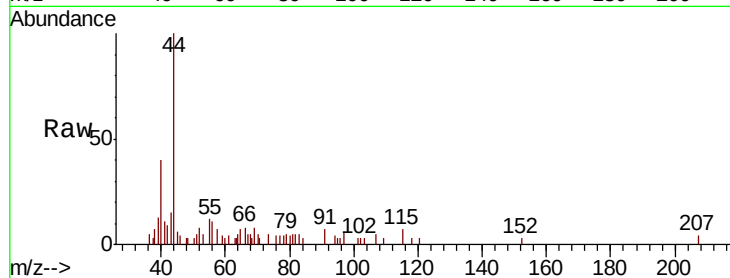
LF016MW001-190610

Tot Ion: 56 Resp: 302

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 1.752 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010253.D

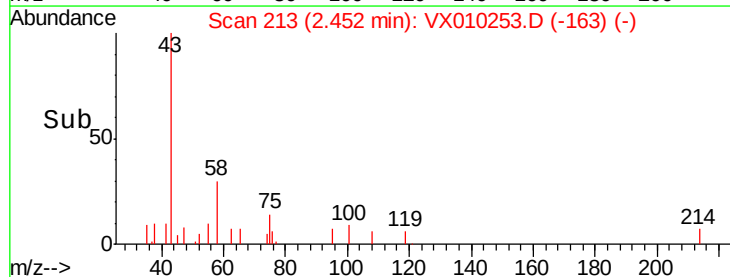
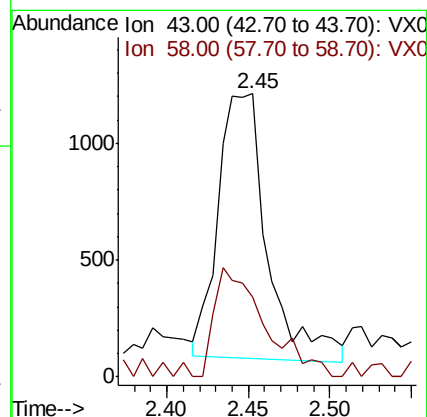
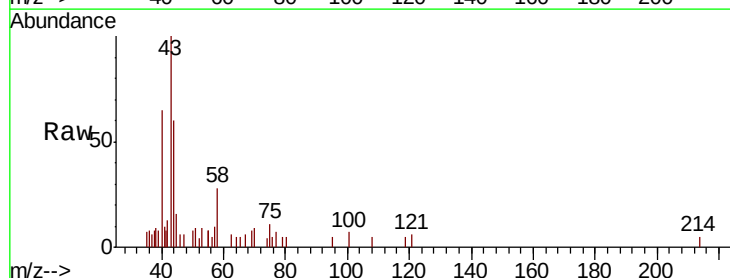
Acq: 12 Jun 2019 16:11

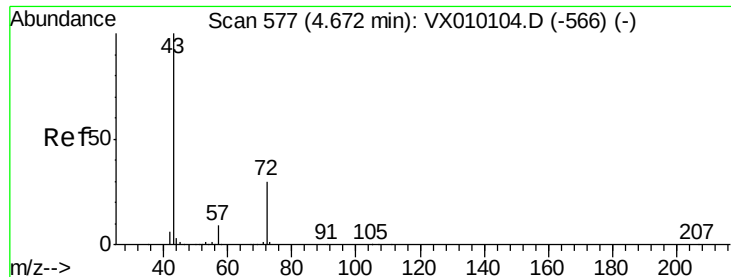
Tgt Ion: 43 Resp: 2392

Ion Ratio Lower Upper

43 100

58 31.7 23.2 34.8





#25

2-Butanone

Concen: 0.292 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

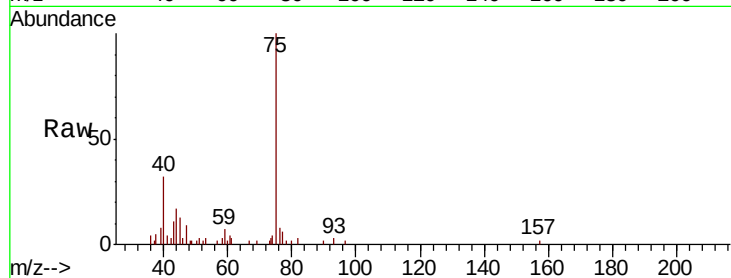
LF016MW001-190610

Tot Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

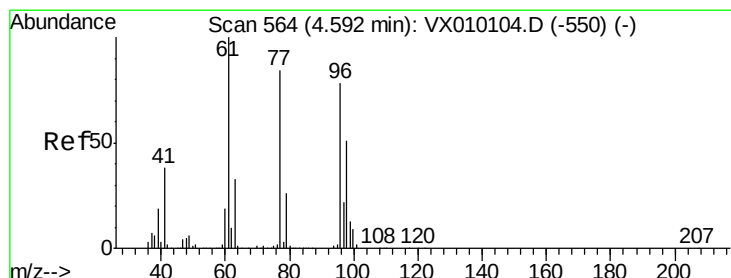
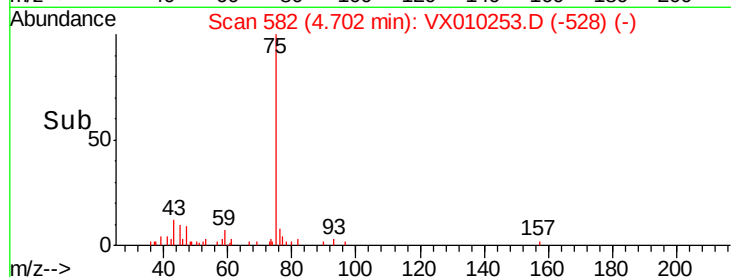
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.441 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

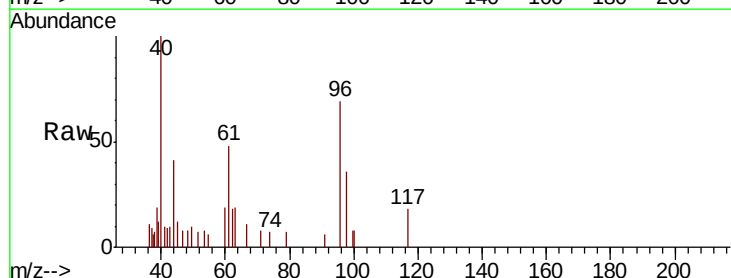
Tgt Ion: 96 Resp: 1450

Ion Ratio Lower Upper

96 100

61 115.4 0.0 334.0

98 64.0 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

800

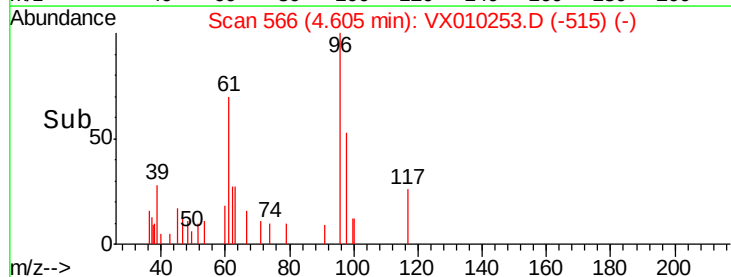
600

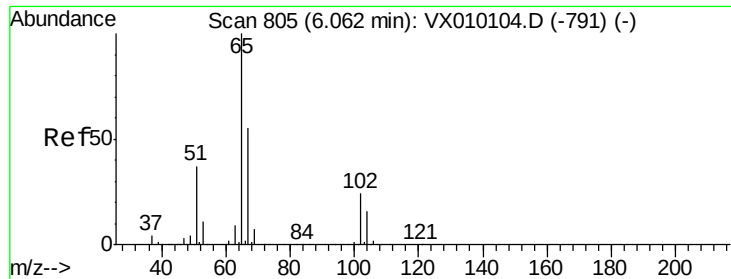
400

200

0

Time-->

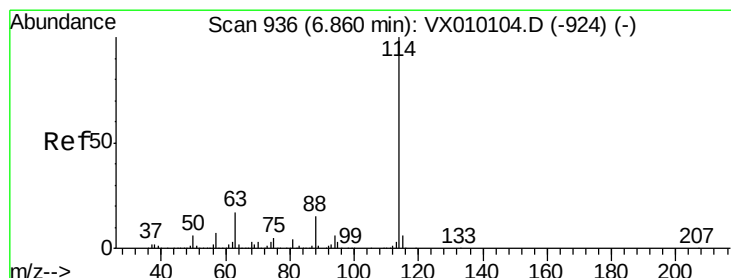
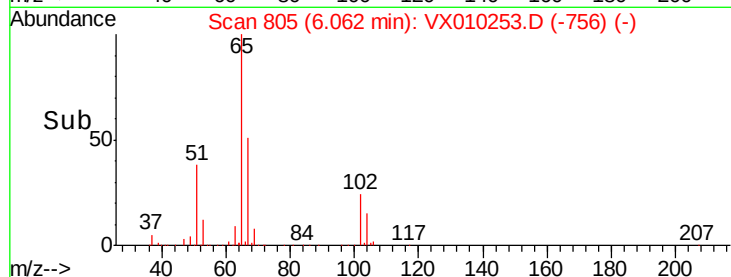
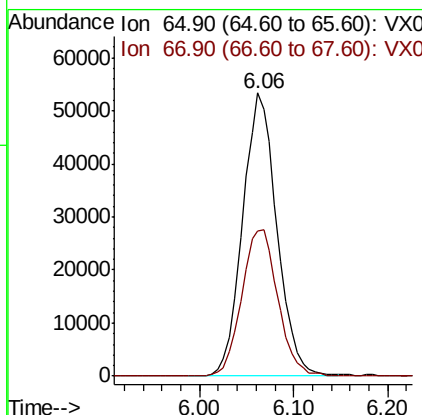
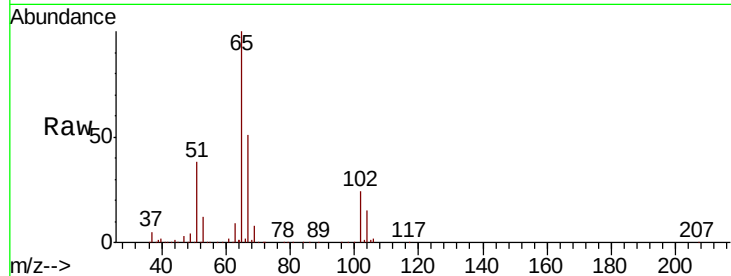




#33
 1,2-Dichloroethane-d4
 Concen: 46.843 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010253.D
 Acq: 12 Jun 2019 16:11

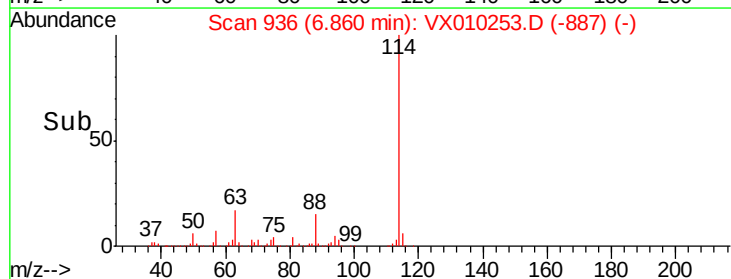
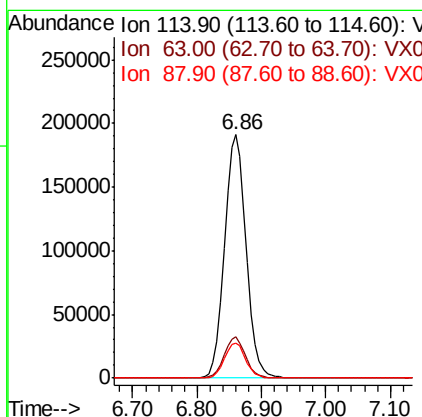
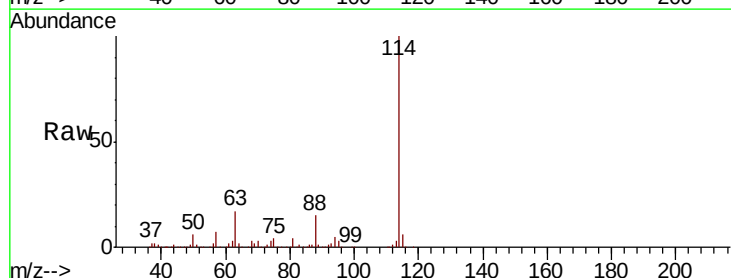
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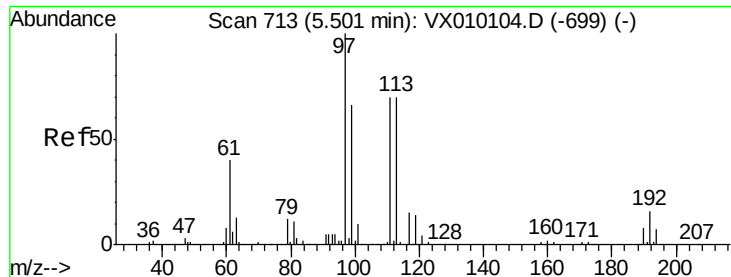
Tot Ion: 65 Resp: 135967
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010253.D
 Acq: 12 Jun 2019 16:11

Tgt Ion: 114 Resp: 451017
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 47.4
 88 14.6 0.0 33.0

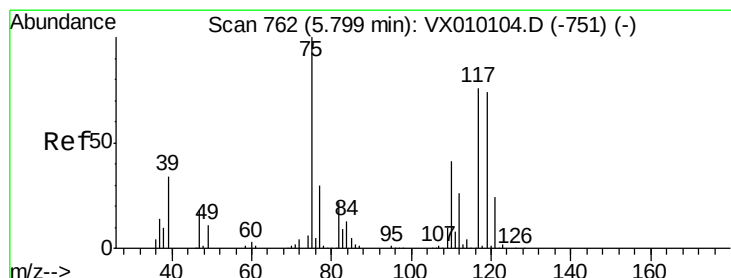
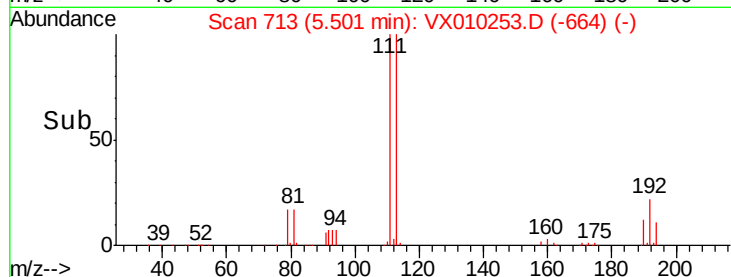
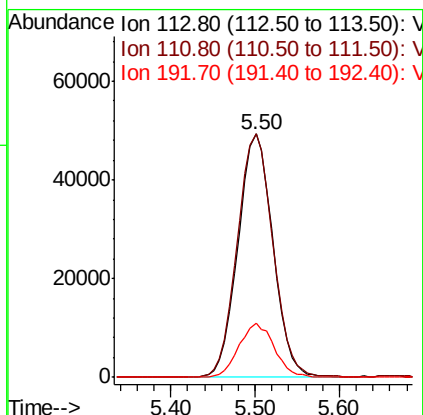
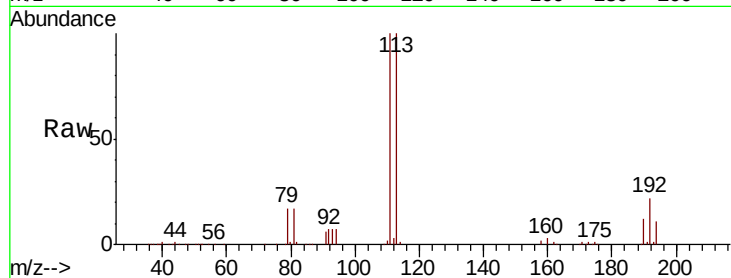




#35
Dibromofluoromethane
Concen: 49.666 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

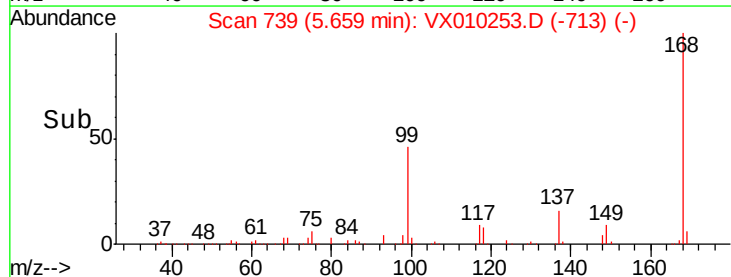
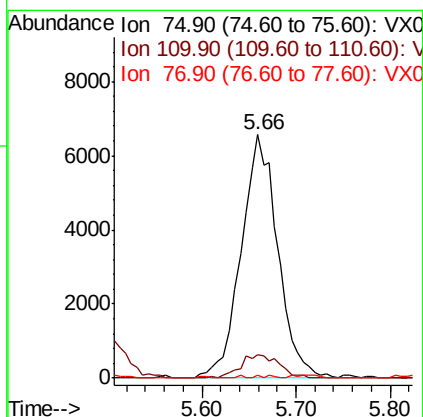
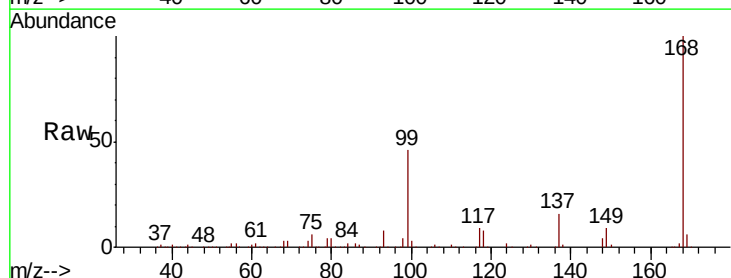
Instrument :
MSVOA_X
ClientSampleId :
LF016MW001-190610

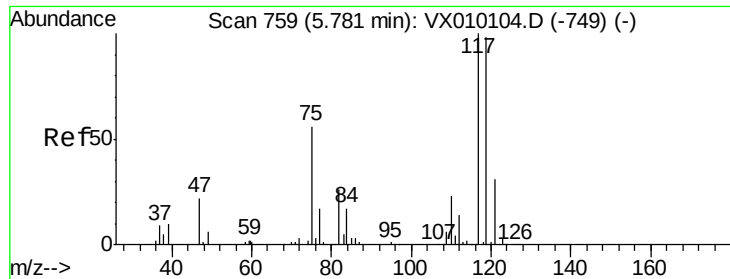
Tot Ion:113 Resp: 138169
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.2
192 22.6 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.840 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Tgt Ion: 75 Resp: 17810
Ion Ratio Lower Upper
75 100
110 10.3 16.7 50.1#
77 0.4 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.182 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

LF016MW001-190610

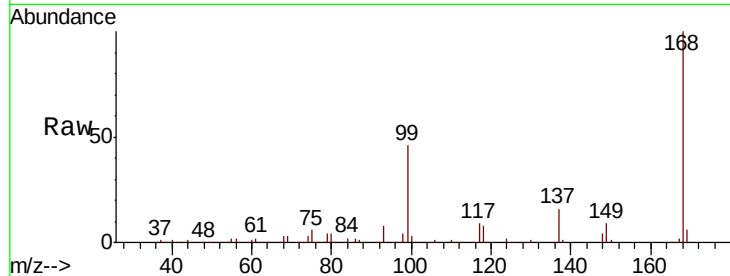
Tot Ion:117 Resp: 25749

Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

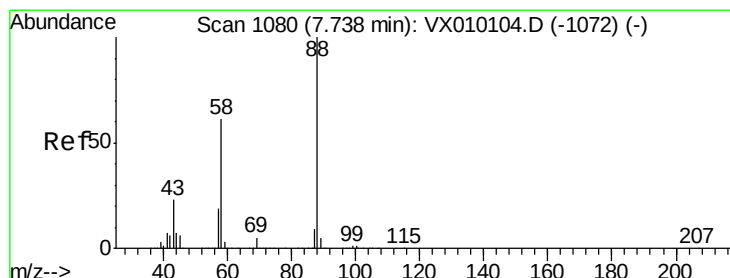
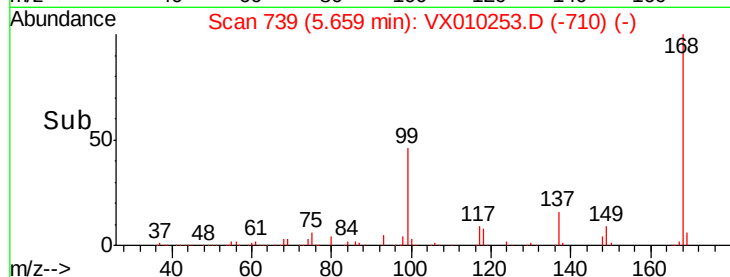
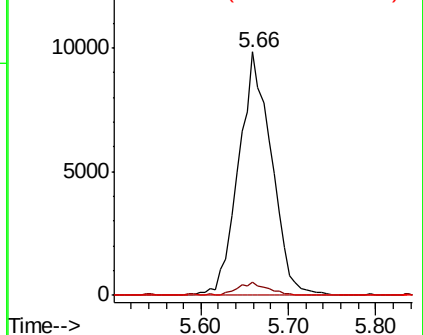
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.223 ug/l

RT: 7.65 min Scan# 1066

Delta R.T. -0.09 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

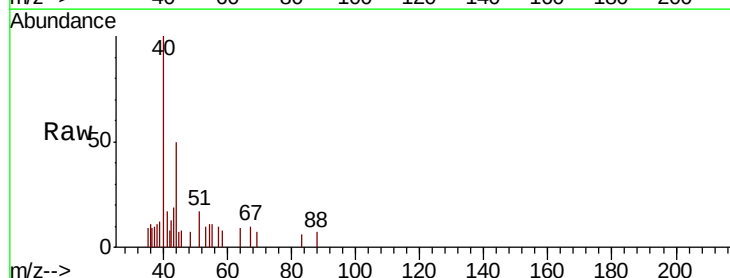
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 910.5 30.2 45.4#

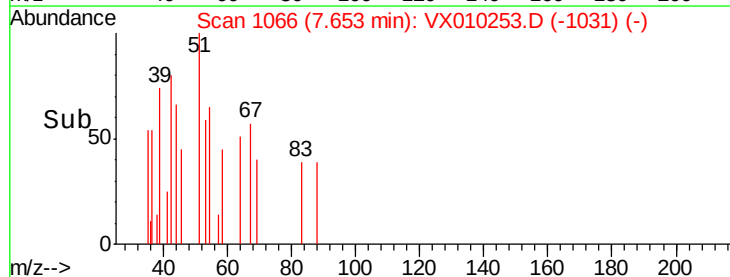
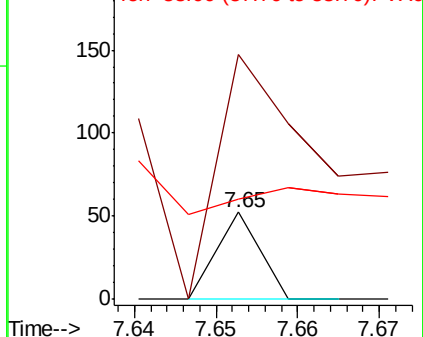
58 373.7 64.0 96.0#

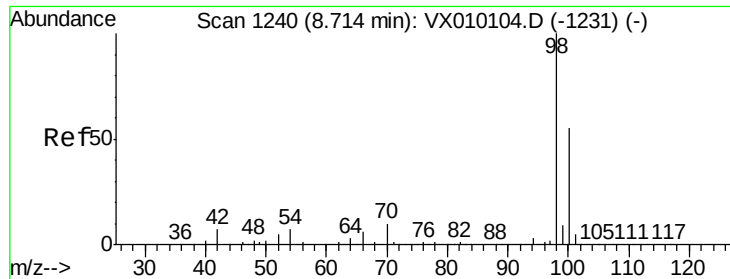


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.785 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

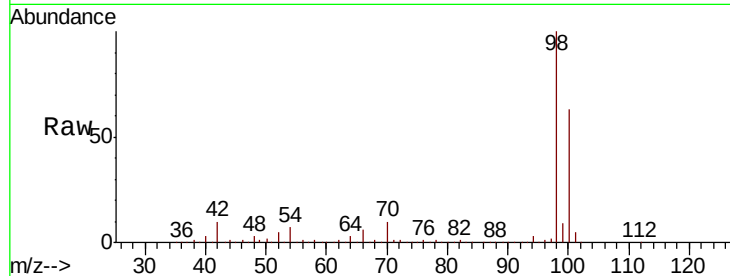
LF016MW001-190610

Tot Ion: 98 Resp: 529510

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

400000

300000

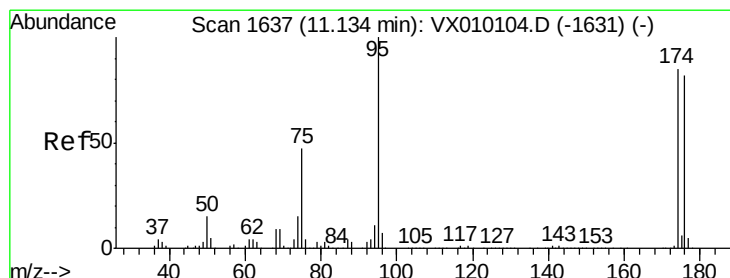
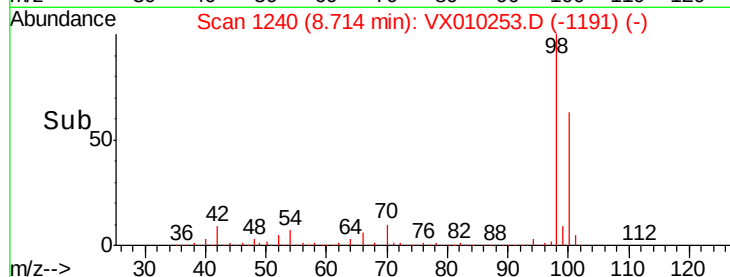
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 46.739 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010253.D

Acq: 12 Jun 2019 16:11

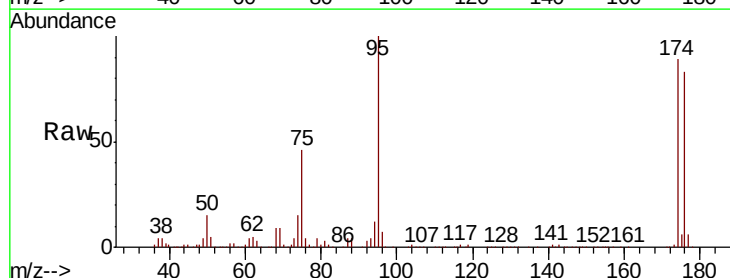
Tgt Ion: 95 Resp: 181995

Ion Ratio Lower Upper

95 100

174 94.3 0.0 160.4

176 91.4 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

200000

150000

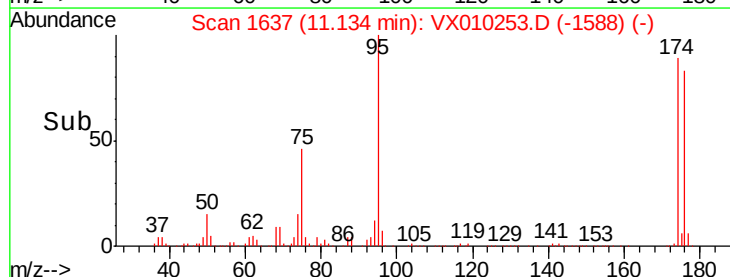
100000

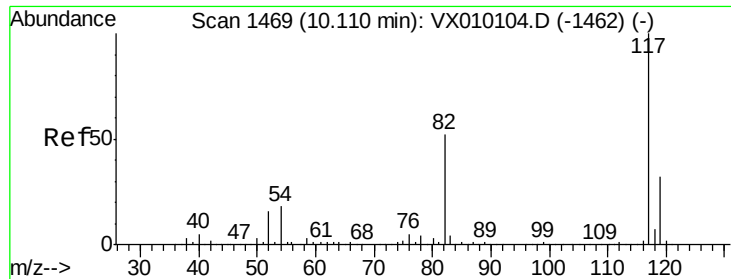
50000

0

11.10 11.20

Time-->

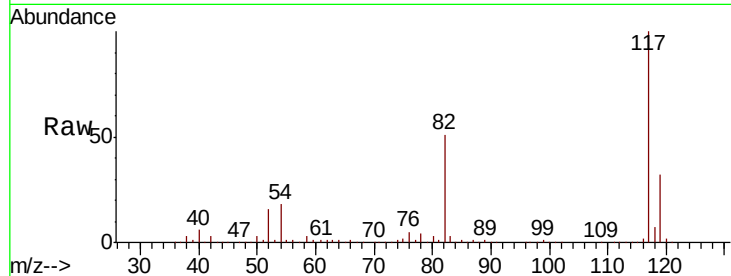




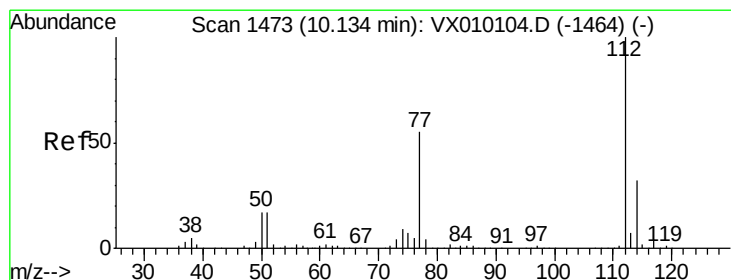
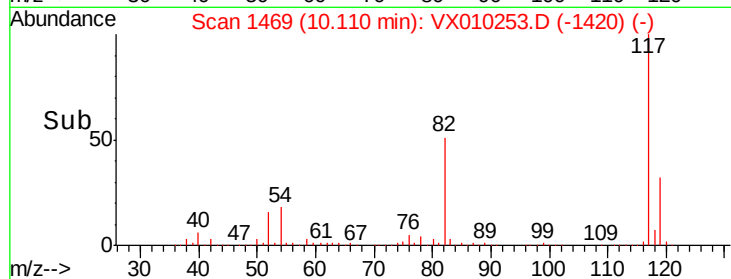
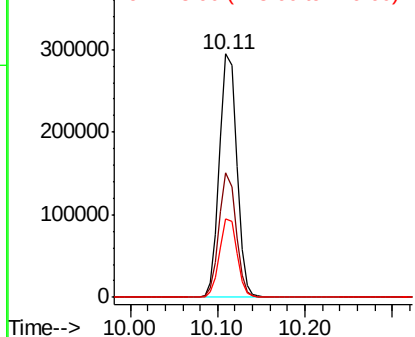
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Instrument :
MSVOA_X
ClientSampleId :
LF016MW001-190610

Tot Ion:117 Resp: 406036
Ion Ratio Lower Upper
117 100
82 51.2 49.2 73.8
119 32.4 25.2 37.8

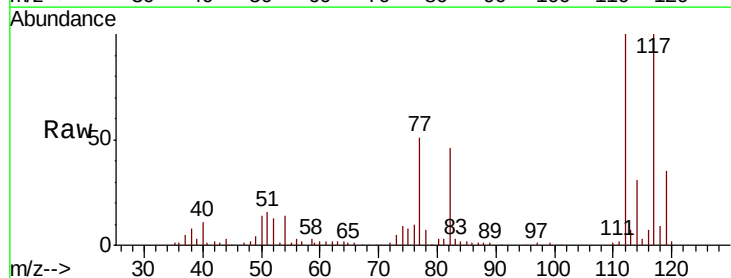


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

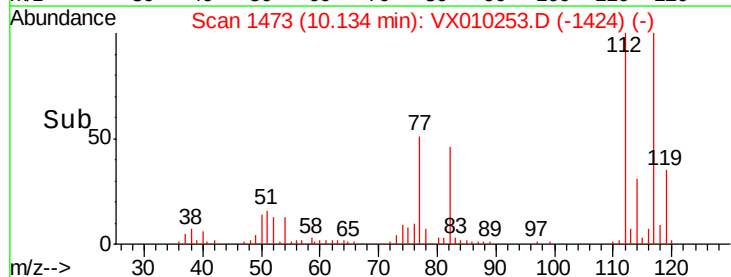
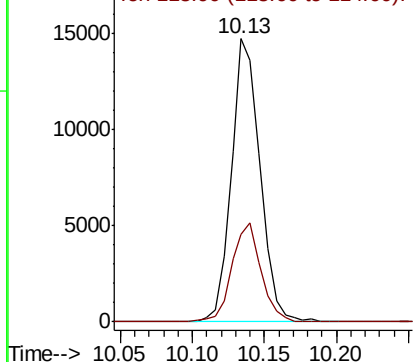


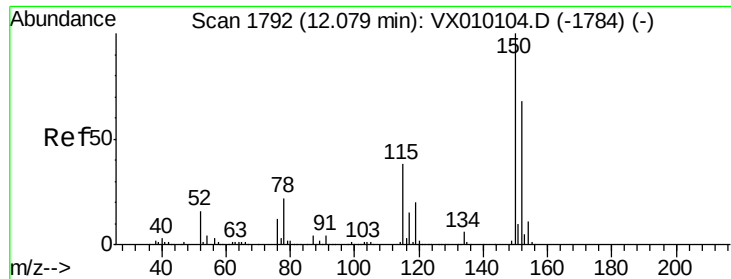
#65
Chlorobenzene
Concen: 2.441 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Tgt Ion:112 Resp: 20453
Ion Ratio Lower Upper
112 100
114 31.1 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



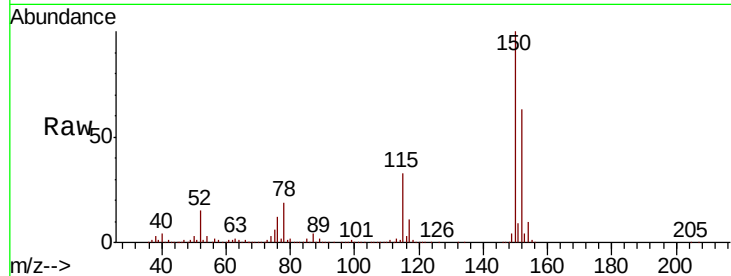


#72

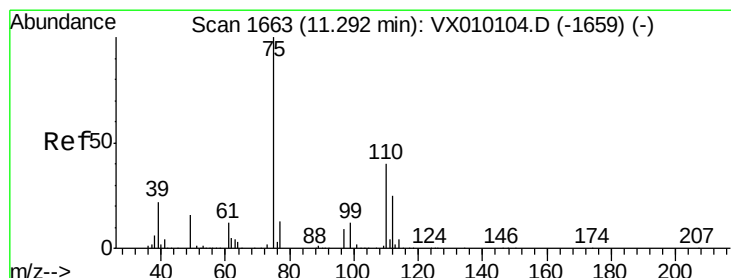
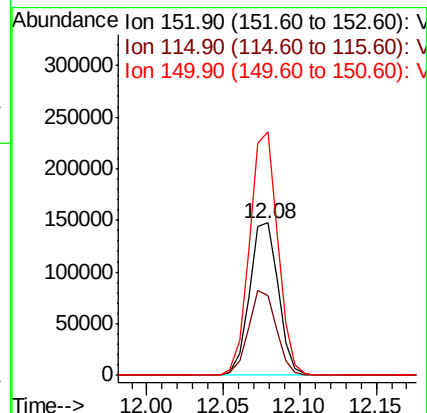
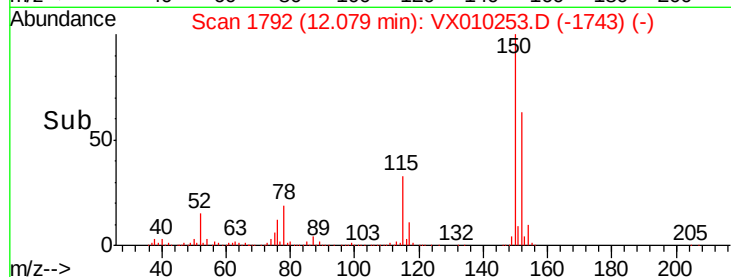
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Instrument :
MSVOA_X
ClientSampleId :
LF016MW001-190610

Tot Ion:152 Resp: 192774
Ion Ratio Lower Upper
152 100
115 53.8 41.4 124.2
150 156.4 0.0 345.2



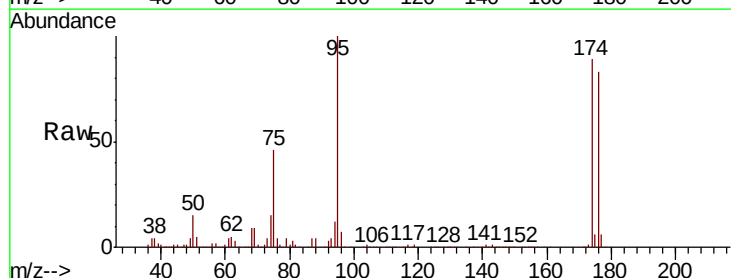
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



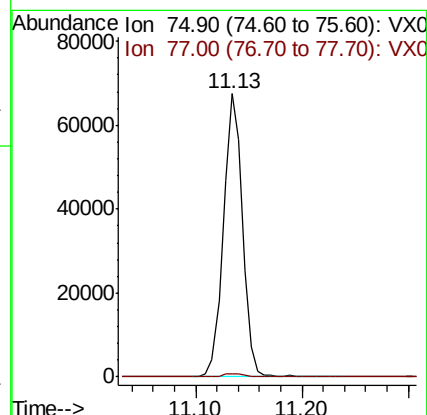
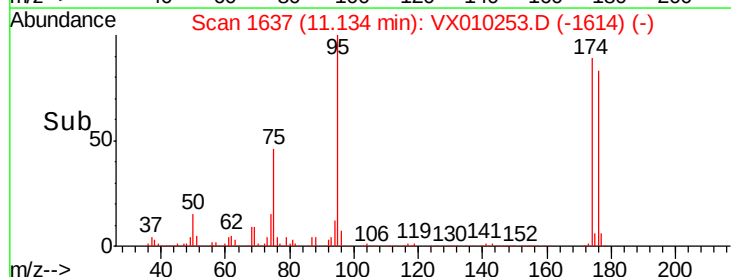
#76

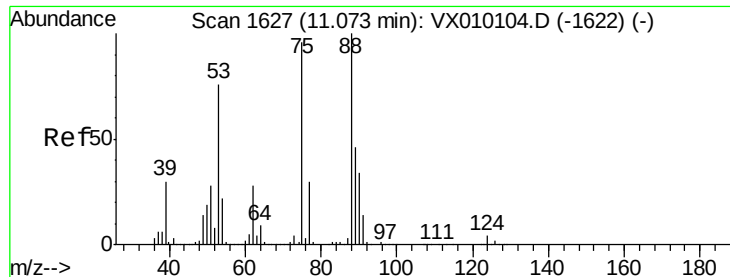
1,2,3-Trichloropropane
Concen: 21.847 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Tgt Ion: 75 Resp: 84240
Ion Ratio Lower Upper
75 100
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

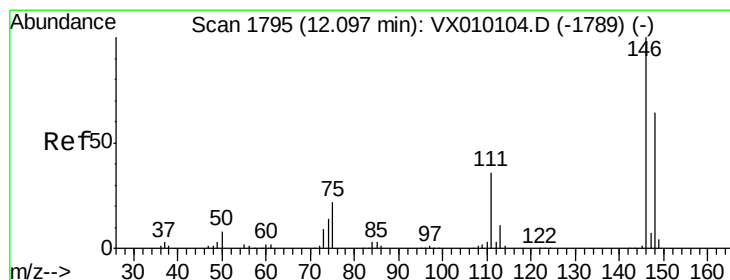
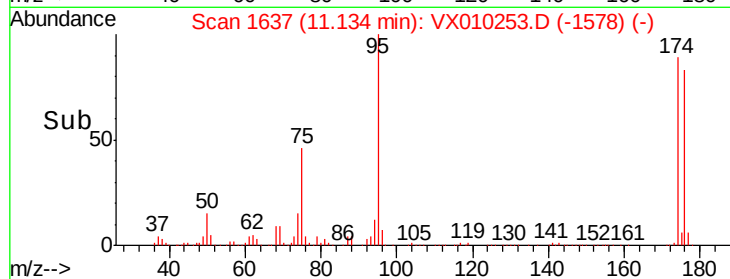
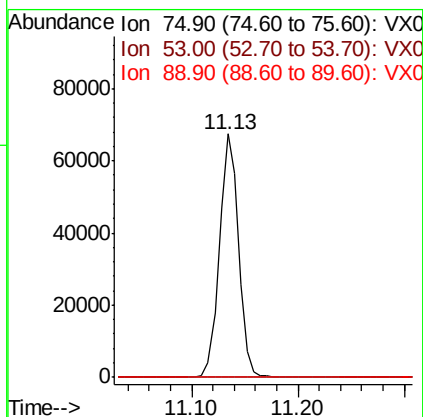
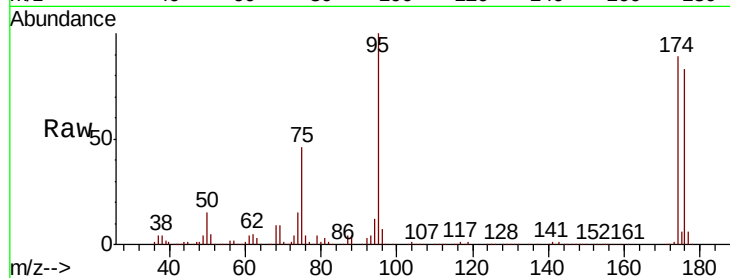




#81
trans-1,4-Dichloro-2-butene
Concen: 48.270 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Instrument :
MSVOA_X
ClientSampleId :
LF016MW001-190610

Tot Ion: 75 Resp: 84240
Ion Ratio Lower Upper
75 100
53 0.0 79.8 119.6#
89 0.0 34.2 51.4#



#88
1,4-Dichlorobenzene
Concen: 1.197 ug/l
RT: 12.10 min Scan# 1795
Delta R.T. -0.00 min
Lab File: VX010253.D
Acq: 12 Jun 2019 16:11

Tgt Ion: 146 Resp: 7863
Ion Ratio Lower Upper
146 100
111 60.8 20.0 59.9#
148 71.9 32.3 96.9

