

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010020.D
 Acq On : 01 Jun 2019 06:02
 Operator : JC/SP
 Sample : K3129-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW004-190528

Quant Time: Jun 03 00:41:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	168889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	269020	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109845	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	112282	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
35) Dibromofluoromethane	5.50	113	82563	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	8.71	98	339589	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.13	95	117273	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	

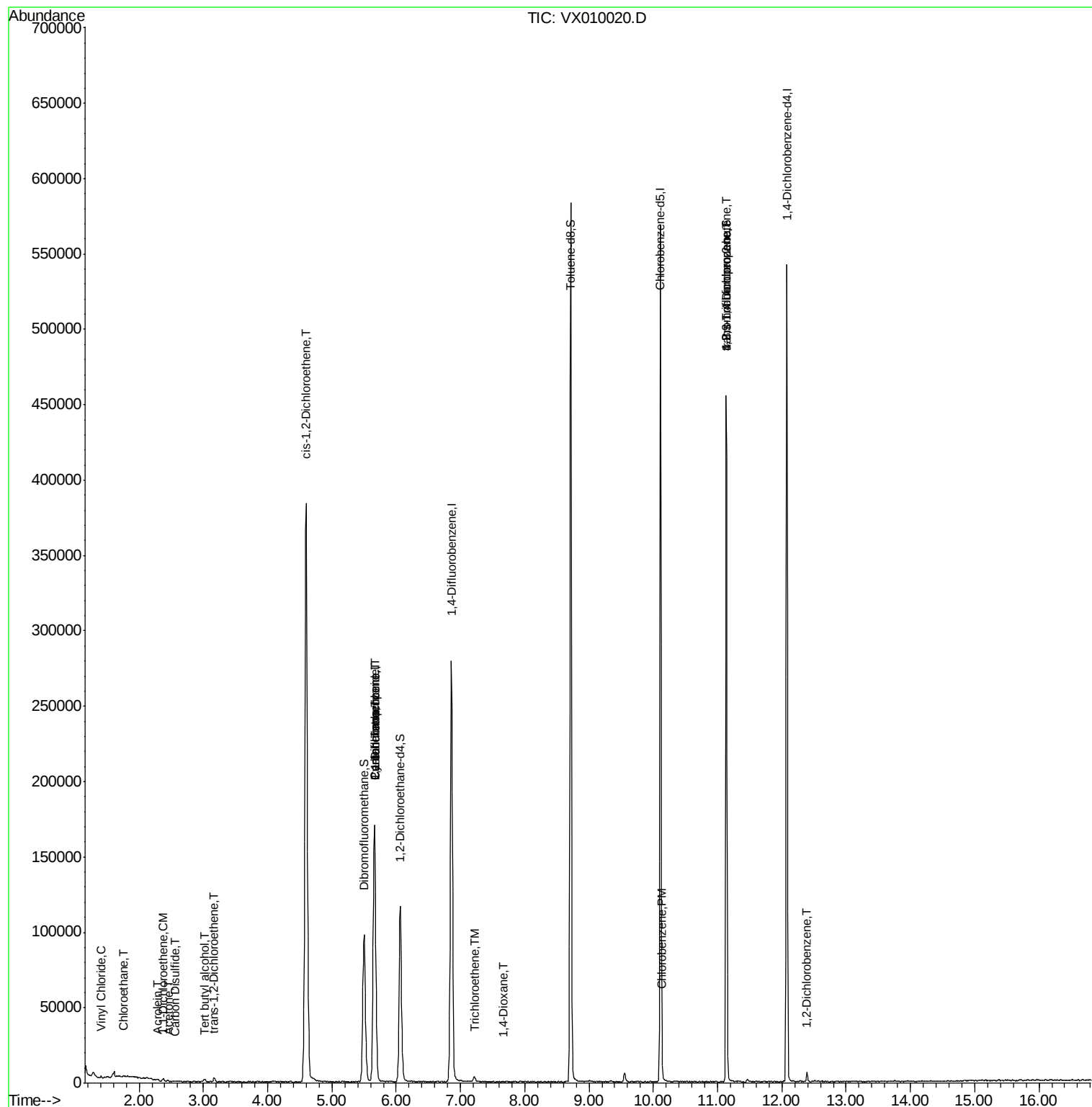
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	748	0.299	ug/l #	62
6) Chloroethane	1.76	64	533	0.346	ug/l #	65
11) Tert butyl alcohol	3.02	59	1066	1.816	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	721	0.422	ug/l #	66
13) Acrolein	2.29	56	66	21.242	ug/l #	14
16) Acetone	2.45	43	874	0.634	ug/l #	86
17) Carbon Disulfide	2.57	76	433	0.468	ug/l #	56
21) trans-1,2-Dichloroethene	3.17	96	842	0.442	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	236405	107.613	ug/l	86
31) Cyclohexane	5.66	56	3723	1.025	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13335	4.885	ug/l #	50
38) Carbon Tetrachloride	5.66	117	15785	6.692	ug/l #	16
44) Trichloroethene	7.22	130	1220	0.620	ug/l	80
49) 1,4-Dioxane	7.66	88	20	0.354	ug/l #	1
65) Chlorobenzene	10.14	112	1114	0.217	ug/l #	88
76) 1,2,3-Trichloropropane	11.13	75	59978	22.834	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59978	56.494	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1852	0.511	ug/l	93

(#) = 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: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

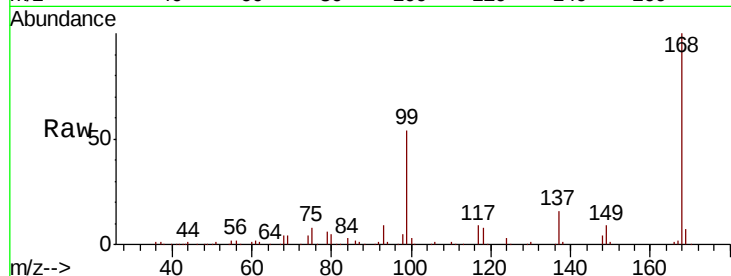
LF012MW004-190528

Tot Ion:168 Resp: 168889

Ion Ratio Lower Upper

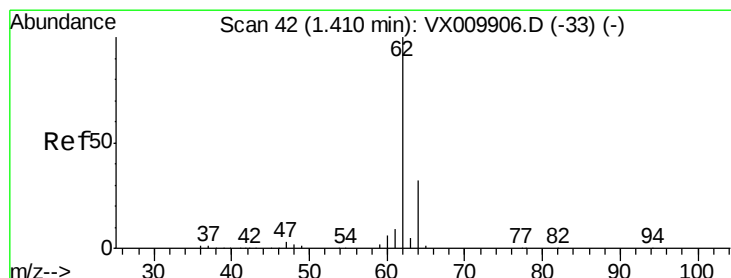
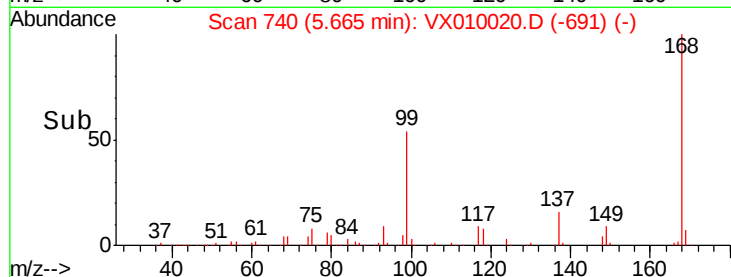
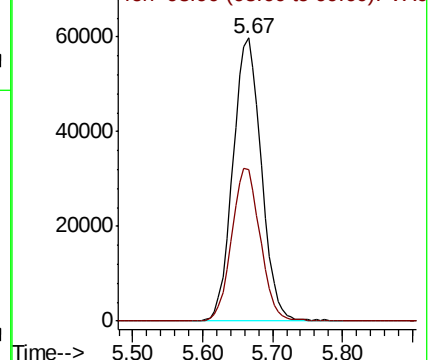
168 100

99 53.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.299 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010020.D

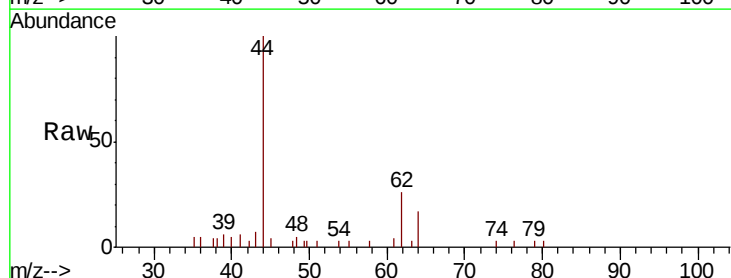
Acq: 01 Jun 2019 06:02

Tgt Ion: 62 Resp: 748

Ion Ratio Lower Upper

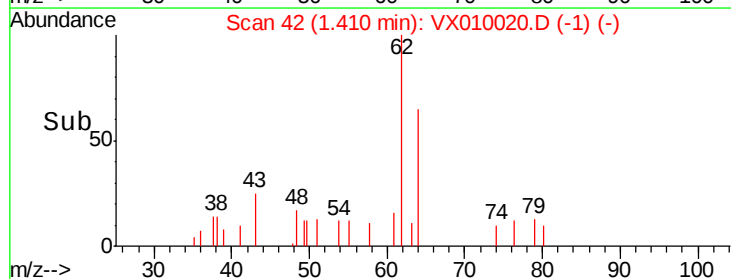
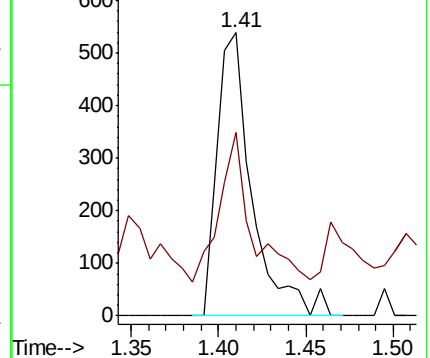
62 100

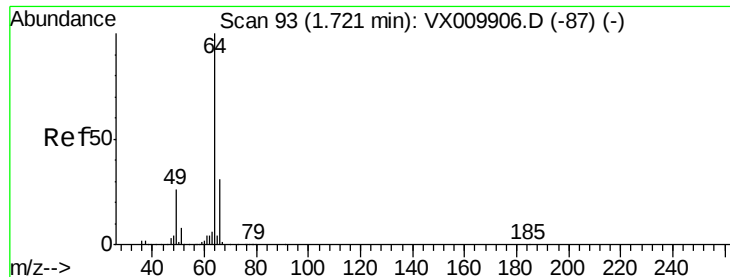
64 53.2 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 0.346 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.04 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

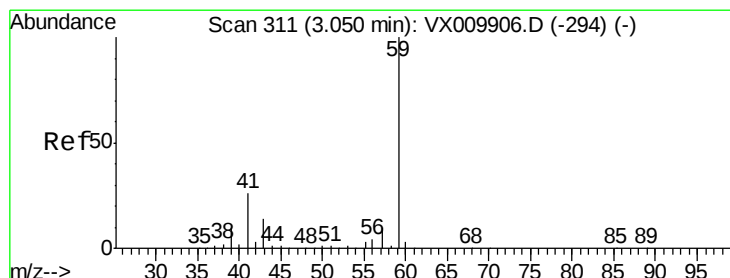
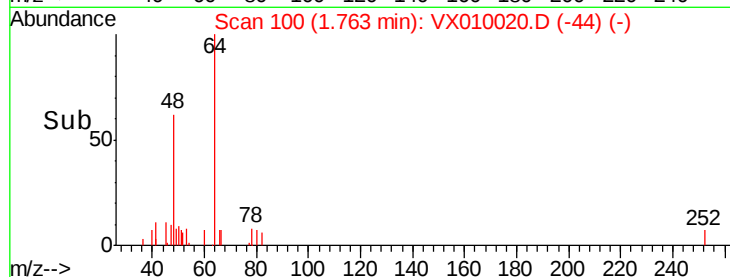
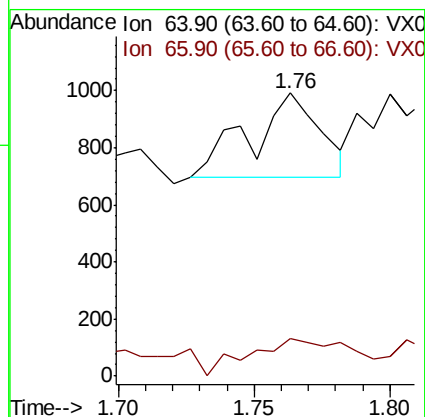
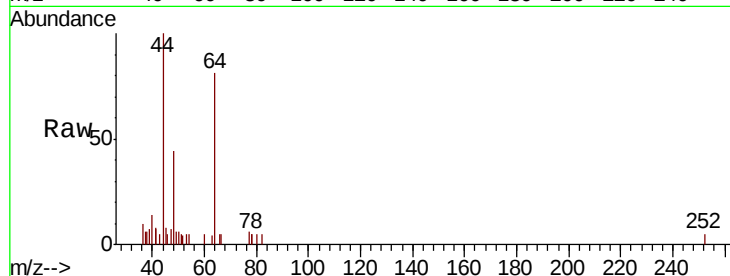
LF012MW004-190528

Tot Ion: 64 Resp: 533

Ion Ratio Lower Upper

64 100

66 12.1 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.816 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010020.D

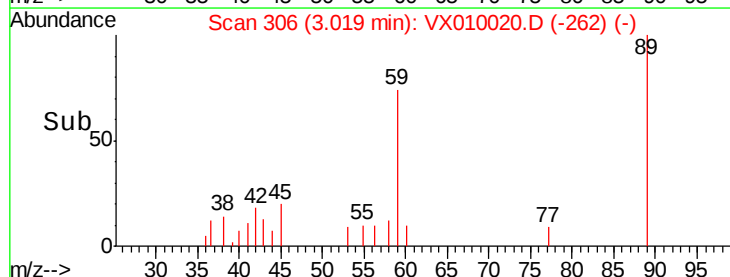
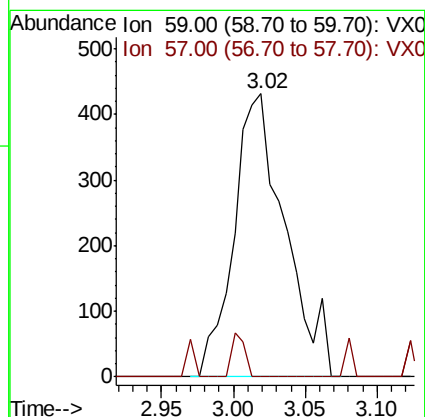
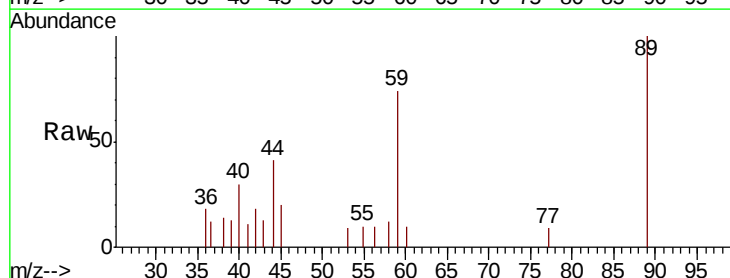
Acq: 01 Jun 2019 06:02

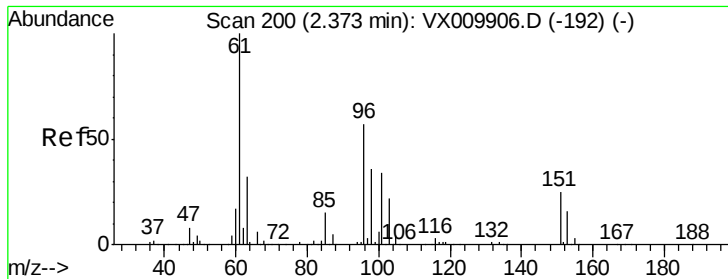
Tgt Ion: 59 Resp: 1066

Ion Ratio Lower Upper

59 100

57 4.1 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.422 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

LF012MW004-190528

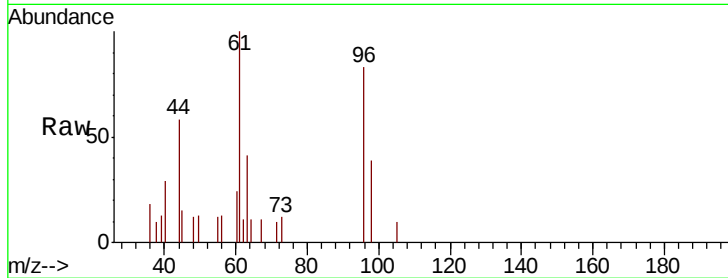
Tot Ion: 96 Resp: 721

Ion Ratio Lower Upper

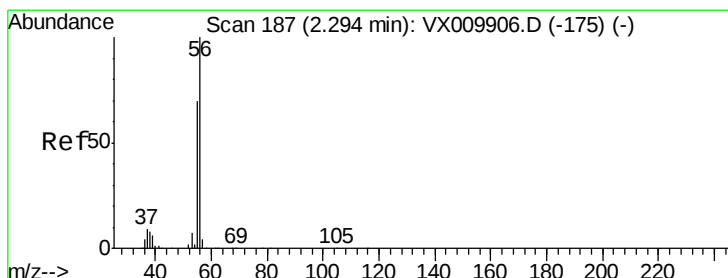
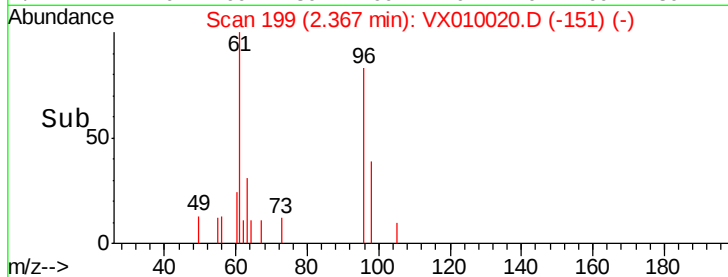
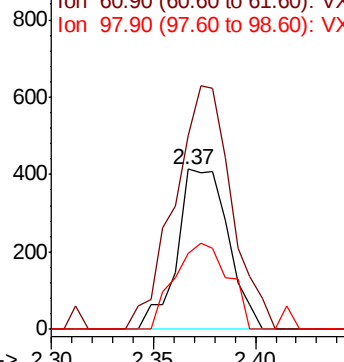
96 100

61 120.5 140.7 211.1#

98 47.1 50.1 75.1#



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



#13

Acrolein

Concen: 21.242 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010020.D

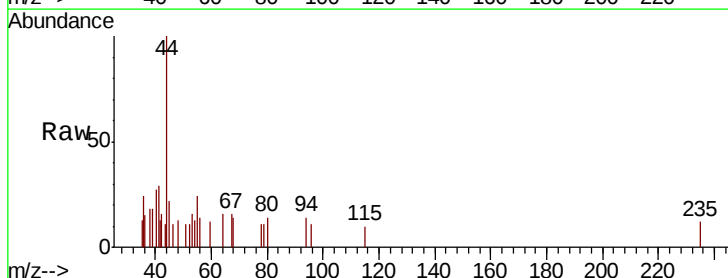
Acq: 01 Jun 2019 06:02

Tgt Ion: 56 Resp: 66

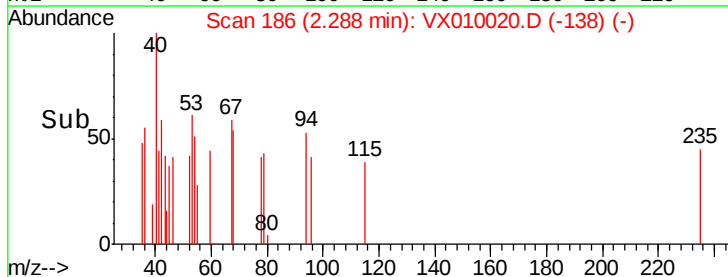
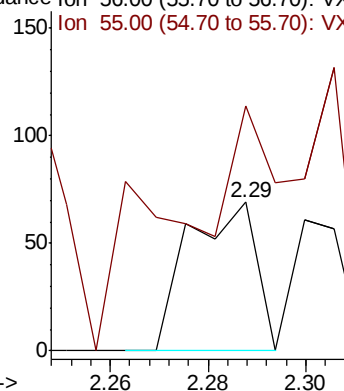
Ion Ratio Lower Upper

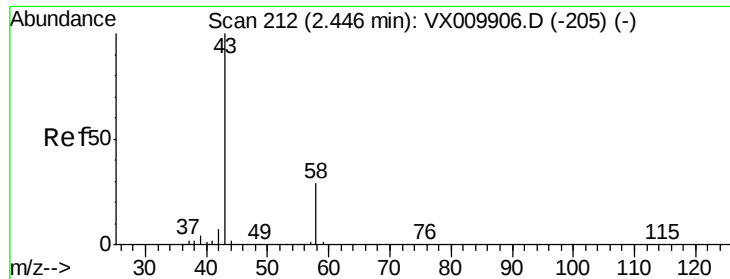
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.634 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

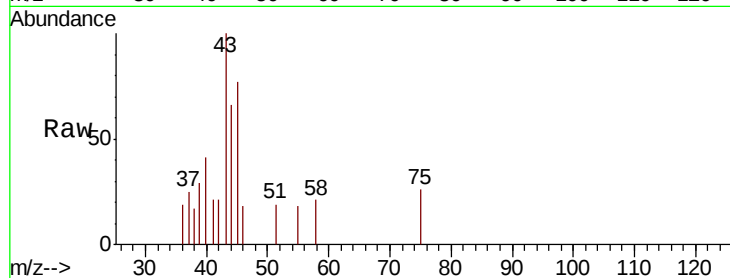
LF012MW004-190528

Tot Ion: 43 Resp: 874

Ion Ratio Lower Upper

43 100

58 21.4 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

400

300

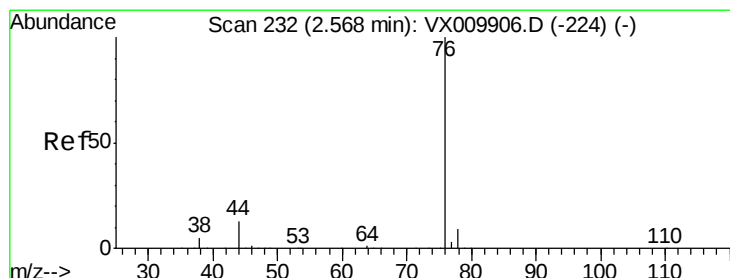
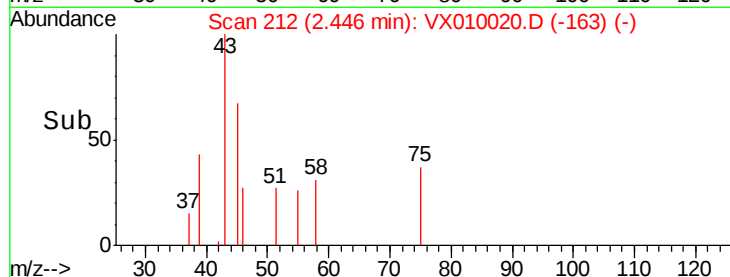
200

100

0

2.40 2.45 2.50 2.55

Time-->



#17

Carbon Disulfide

Concen: 0.468 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010020.D

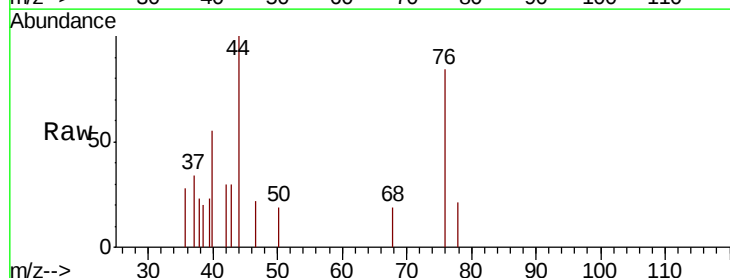
Acq: 01 Jun 2019 06:02

Tgt Ion: 76 Resp: 433

Ion Ratio Lower Upper

76 100

78 24.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

250

200

150

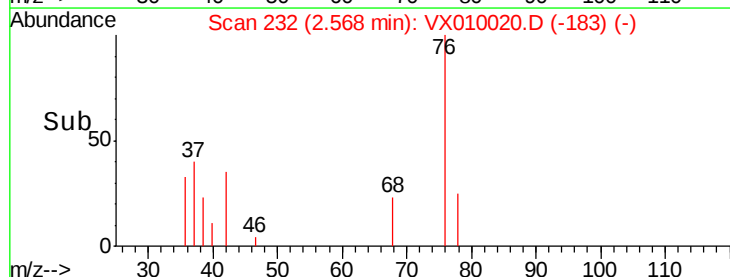
100

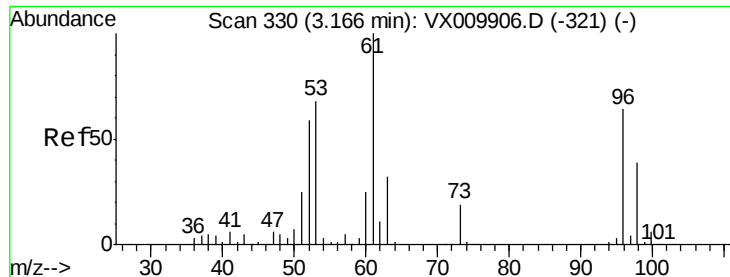
50

0

2.50 2.55 2.60

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.442 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

LF012MW004-190528

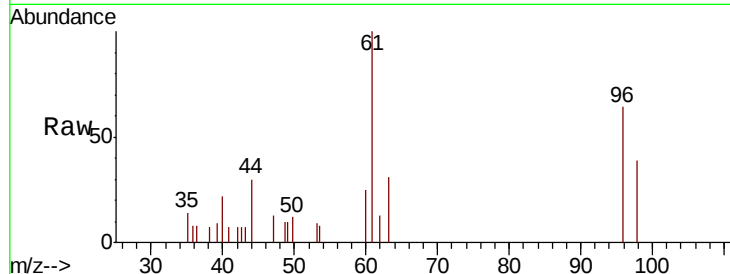
Tot Ion: 96 Resp: 842

Ion Ratio Lower Upper

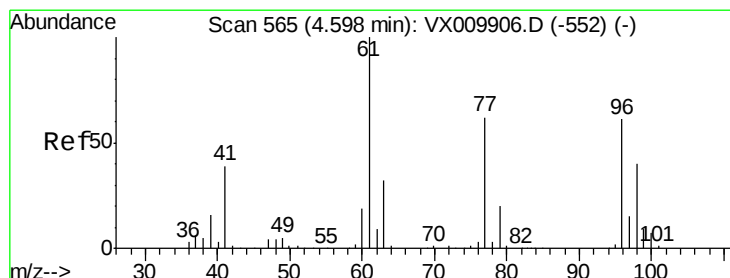
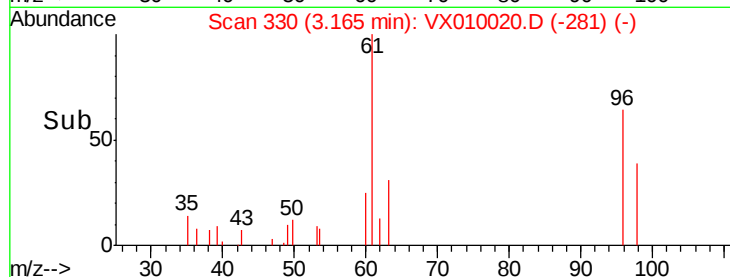
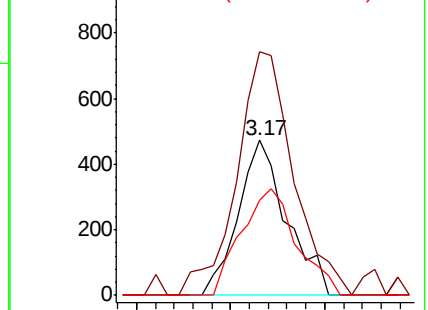
96 100

61 146.0 125.7 188.5

98 61.7 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: 107.613 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

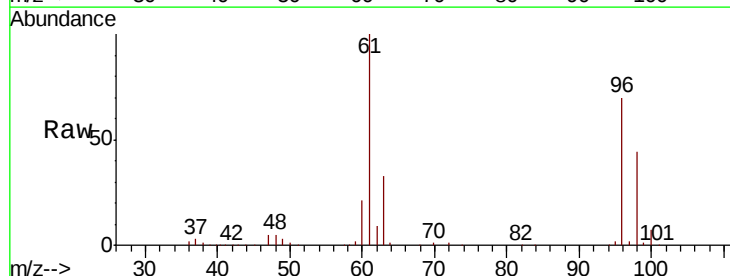
Tgt Ion: 96 Resp: 236405

Ion Ratio Lower Upper

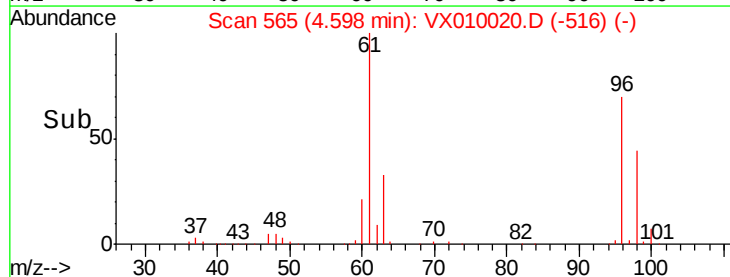
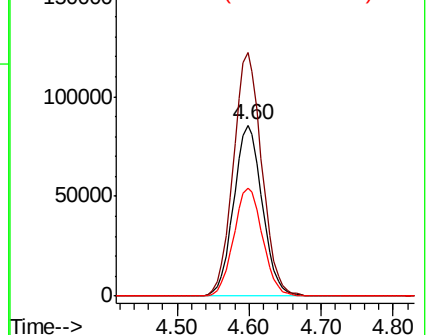
96 100

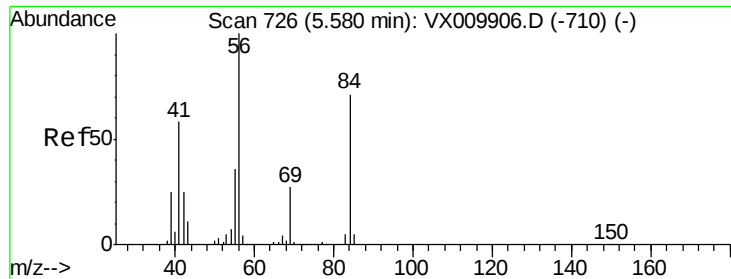
61 142.3 0.0 334.0

98 64.2 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

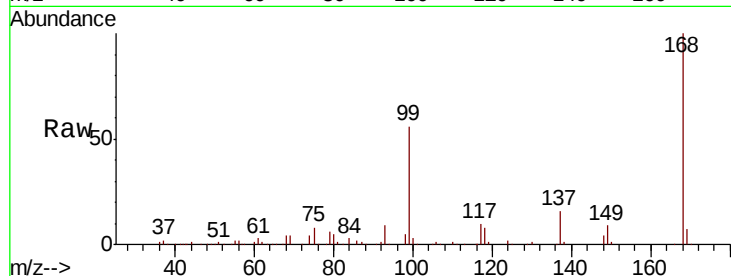




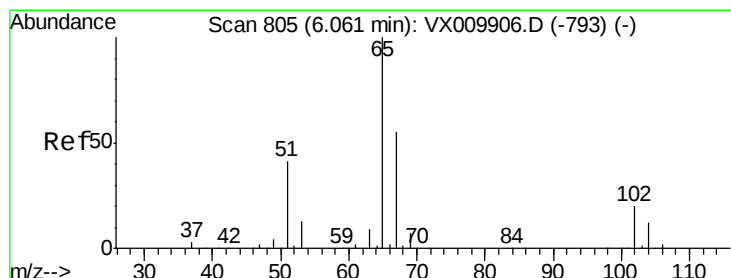
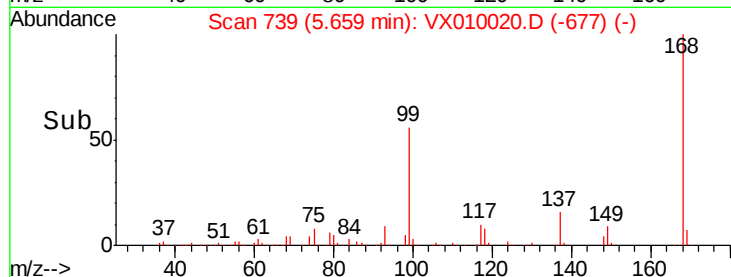
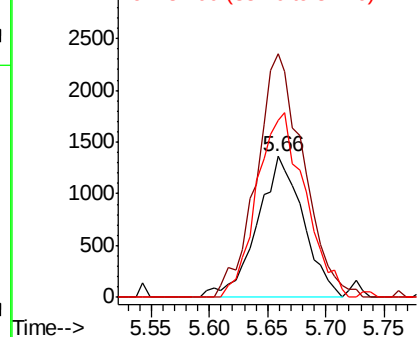
#31
Cyclohexane
Concen: 1.025 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010020.D
Acq: 01 Jun 2019 06:02

Instrument :
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Tot Ion: 56 Resp: 3723
Ion Ratio Lower Upper
56 100
69 172.5 21.6 32.4#
84 125.7 56.8 85.2#

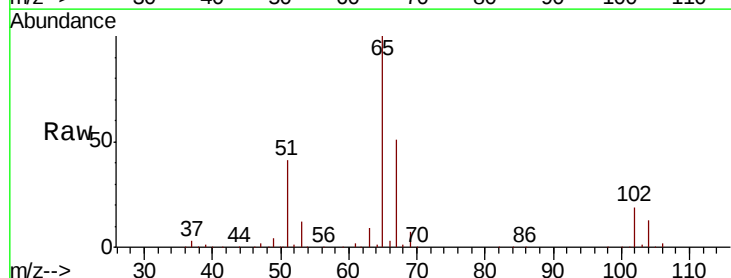


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

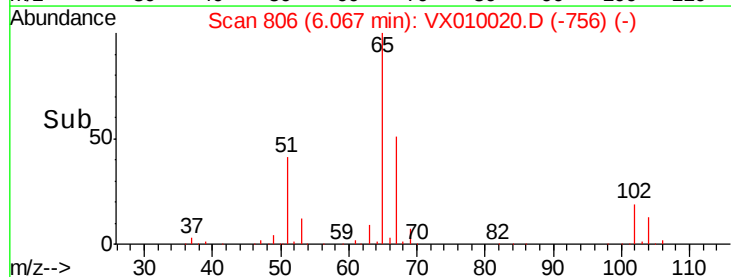
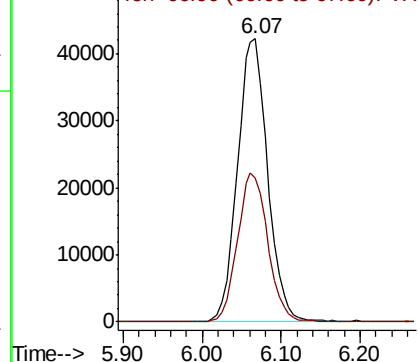


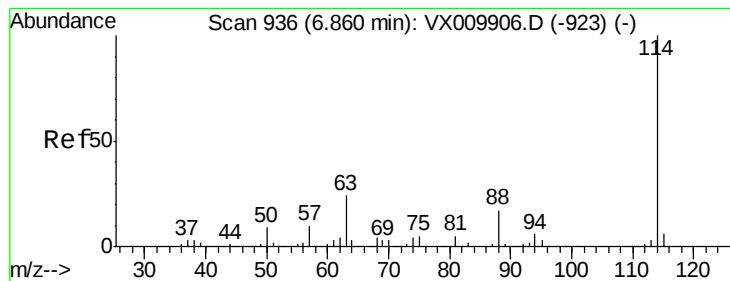
#33
1,2-Dichloroethane-d4
Concen: 47.065 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX010020.D
Acq: 01 Jun 2019 06:02

Tgt Ion: 65 Resp: 112282
Ion Ratio Lower Upper
65 100
67 52.9 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: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

LF012MW004-190528

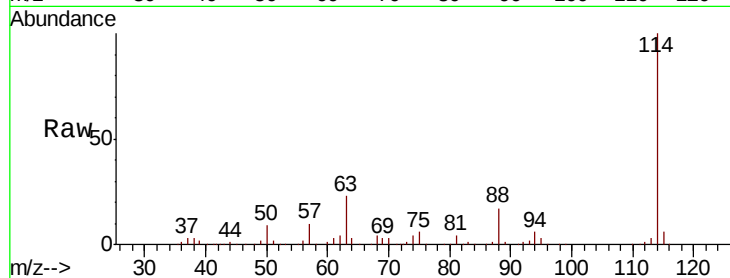
Tot Ion:114 Resp: 269020

Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.4

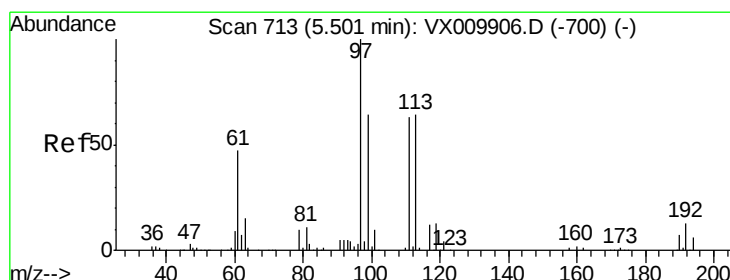
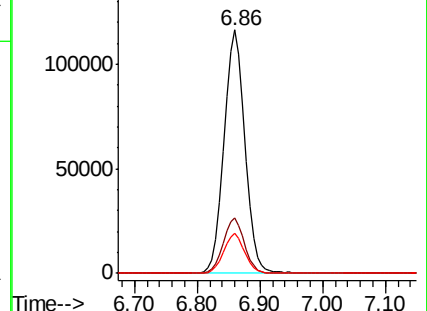
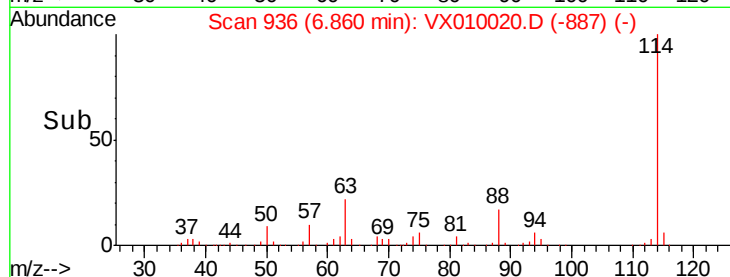
88 16.6 0.0 33.0



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: 48.815 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

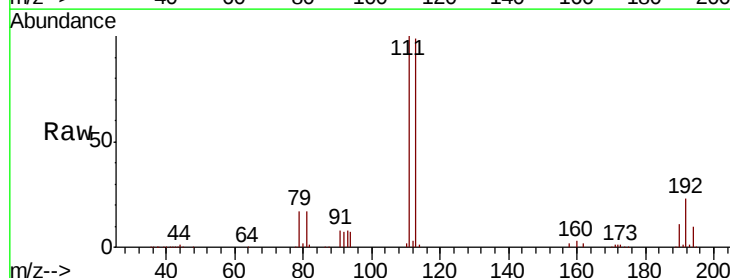
Tgt Ion:113 Resp: 82563

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

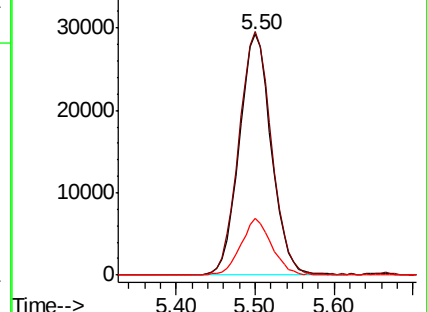
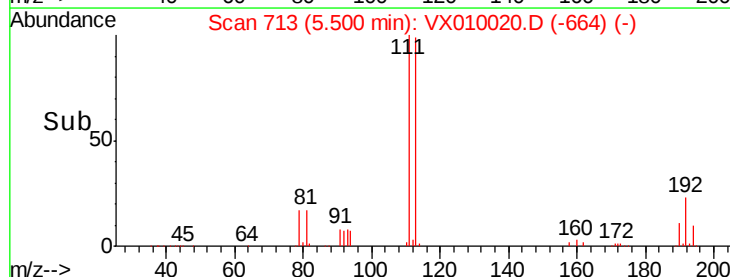
192 22.6 17.1 25.7

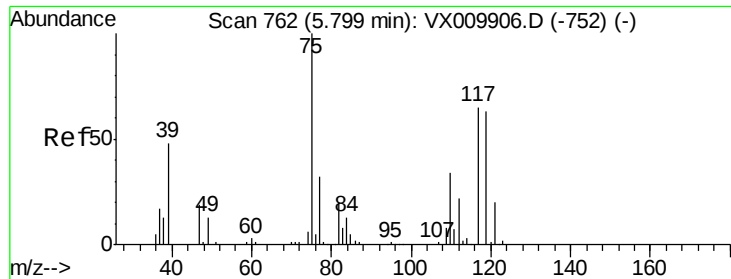


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

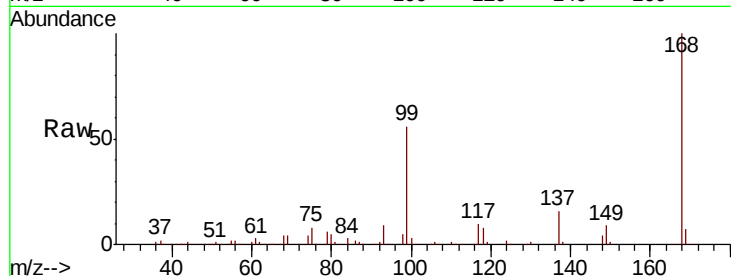




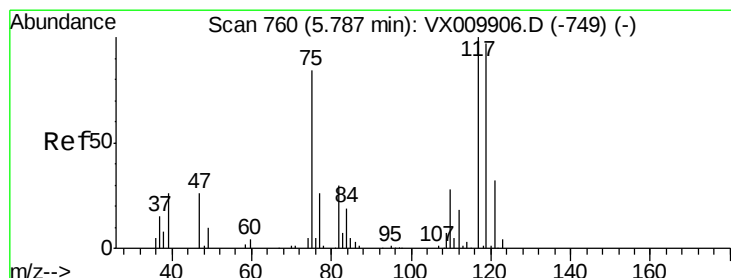
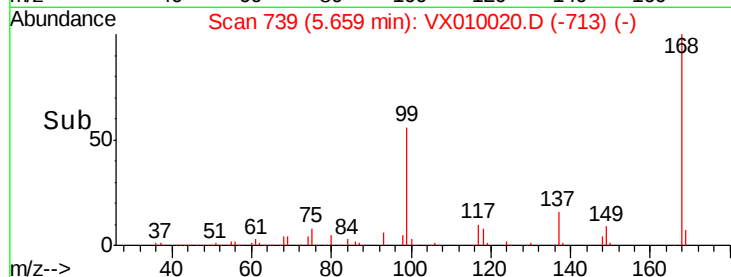
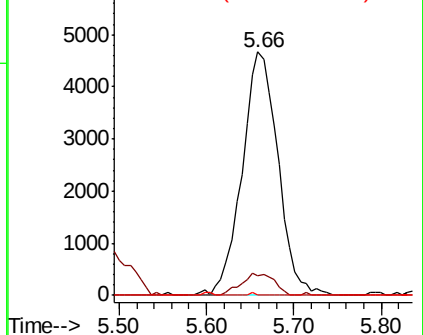
#36
 1,1-Dichloropropene
 Concen: 4.885 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010020.D
 Acq: 01 Jun 2019 06:02

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW004-190528

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.7	50.1#
77	0.1	25.0	37.4#

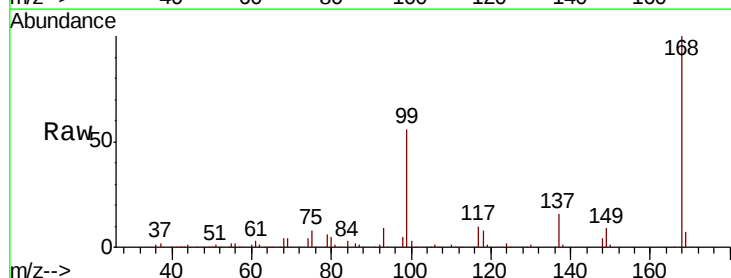


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

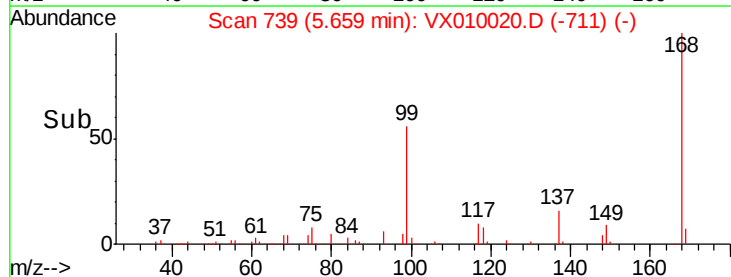
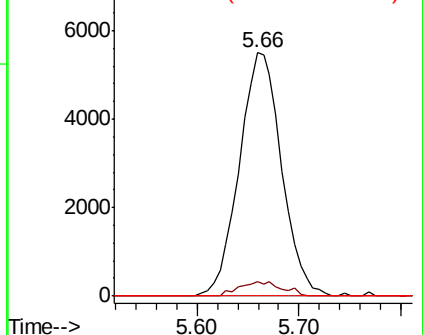


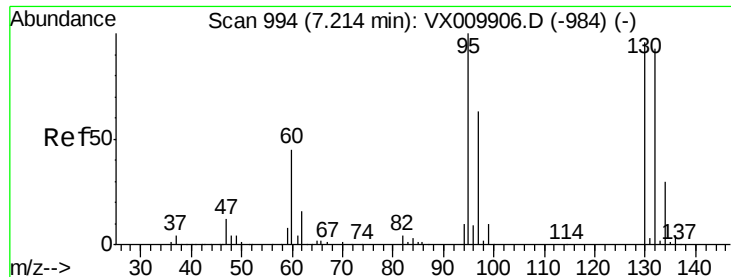
#38
 Carbon Tetrachloride
 Concen: 6.692 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010020.D
 Acq: 01 Jun 2019 06:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	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

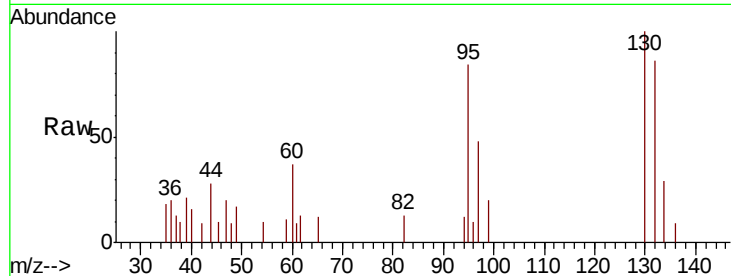




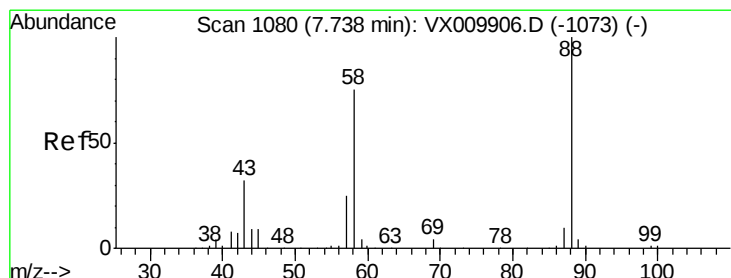
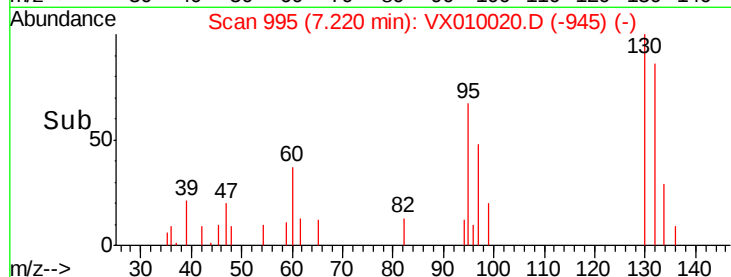
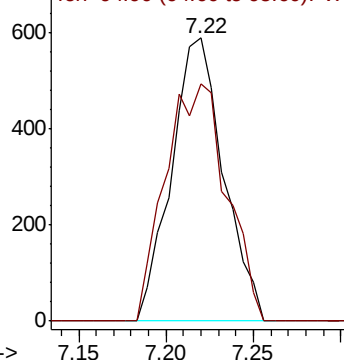
#44
 Trichloroethene
 Concen: 0.620 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX010020.D
 Acq: 01 Jun 2019 06:02

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW004-190528

Tot Ion:130 Resp: 1220
 Ion Ratio Lower Upper
 130 100
 95 83.7 0.0 207.4

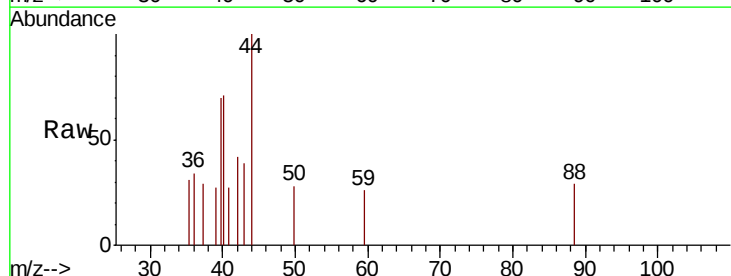


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

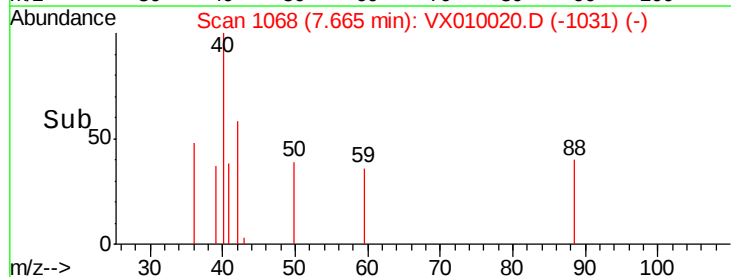
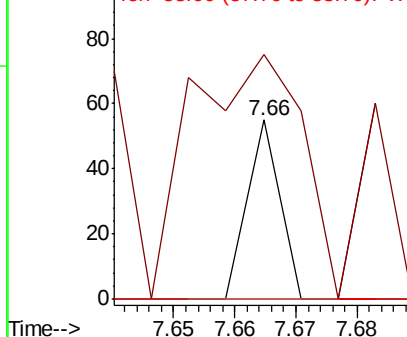


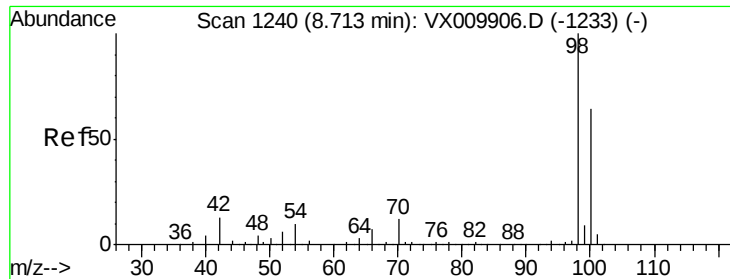
#49
 1,4-Dioxane
 Concen: 0.354 ug/l
 RT: 7.66 min Scan# 1068
 Delta R.T. -0.07 min
 Lab File: VX010020.D
 Acq: 01 Jun 2019 06:02

Tgt Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 475.0 30.2 45.4#
 58 0.0 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: 49.444 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

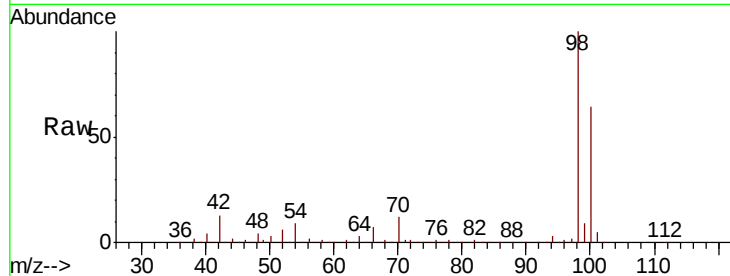
LF012MW004-190528

Tot Ion: 98 Resp: 339589

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

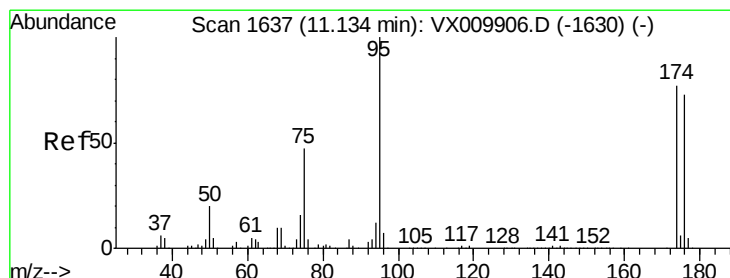
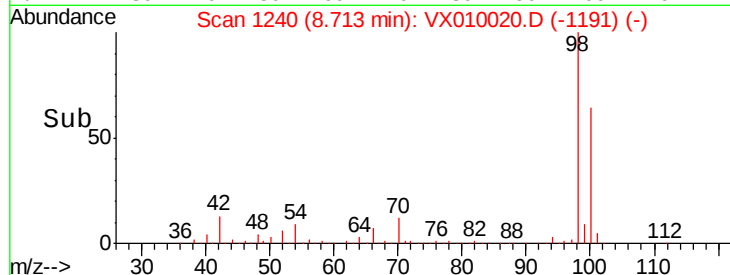
150000

100000

50000

0

Time--> 8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 47.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

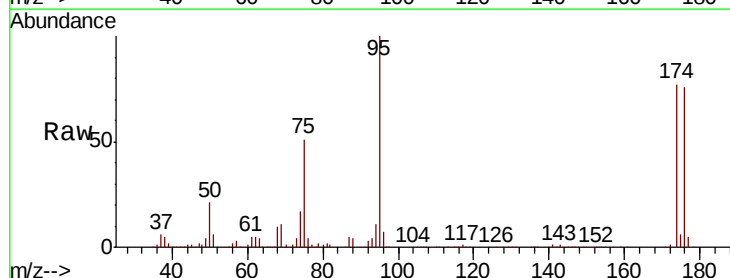
Tgt Ion: 95 Resp: 117273

Ion Ratio Lower Upper

95 100

174 82.9 0.0 160.4

176 81.2 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

11.13

120000

100000

80000

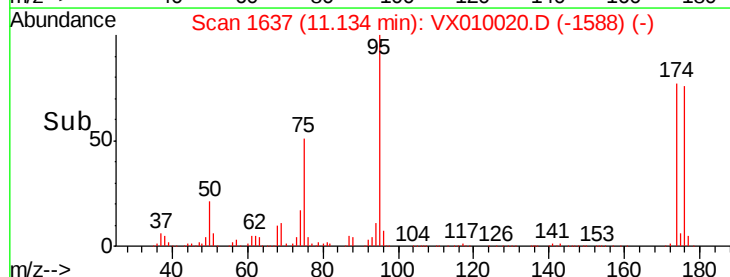
60000

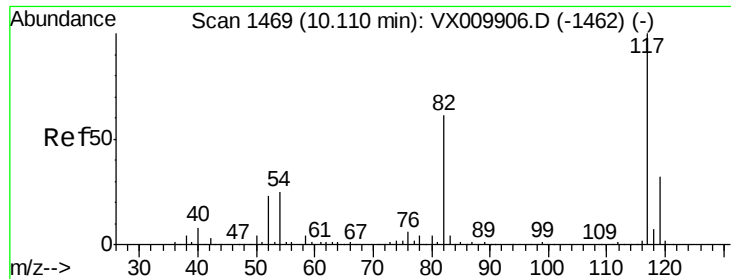
40000

20000

0

Time--> 11.10 11.20 11.30

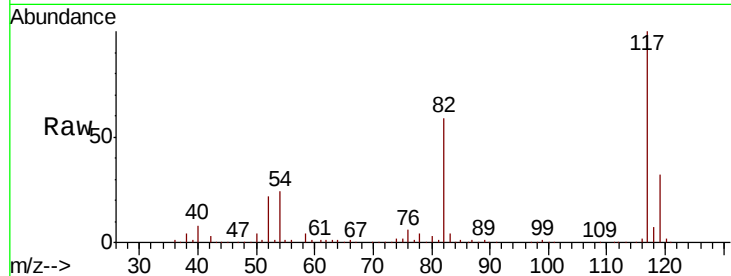




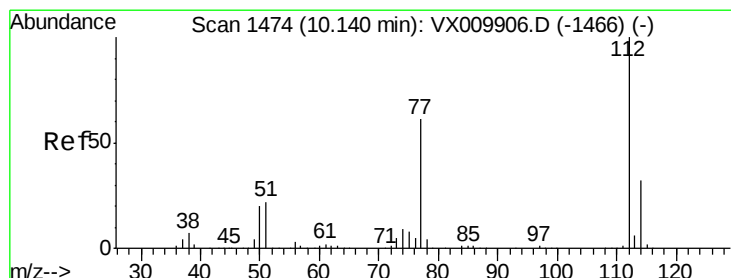
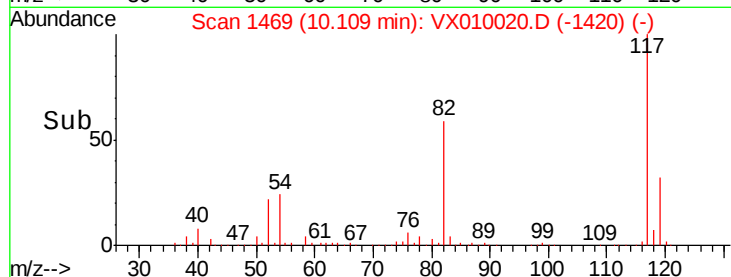
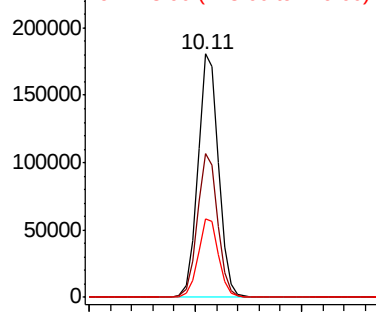
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010020.D
Acq: 01 Jun 2019 06:02

Instrument :
MSVOA_X
ClientSampleId :
LF012MW004-190528

Tot Ion:117 Resp: 244656
Ion Ratio Lower Upper
117 100
82 59.2 49.2 73.8
119 32.2 25.2 37.8

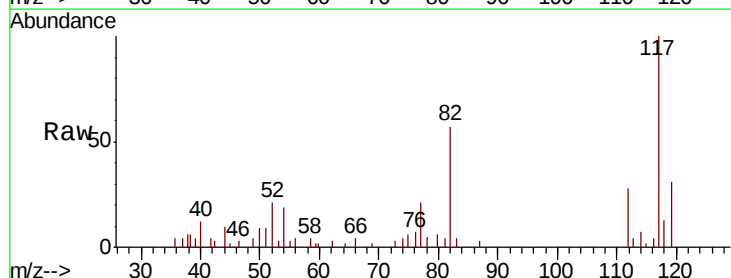


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

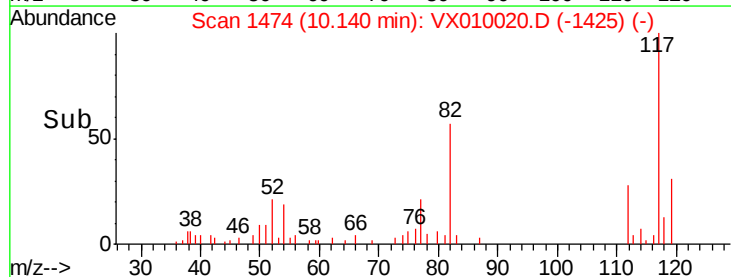
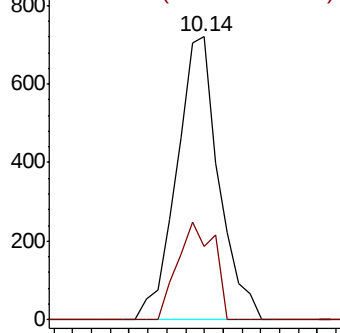


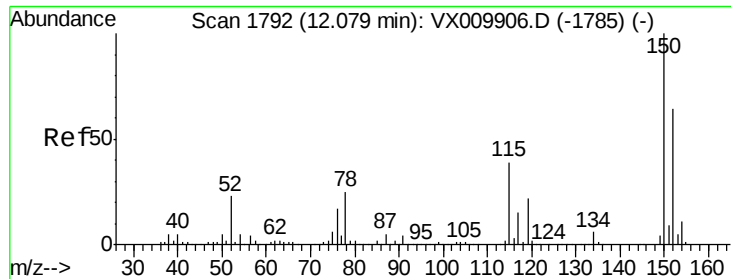
#65
Chlorobenzene
Concen: 0.217 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX010020.D
Acq: 01 Jun 2019 06:02

Tgt Ion:112 Resp: 1114
Ion Ratio Lower Upper
112 100
114 25.8 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: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

LF012MW004-190528

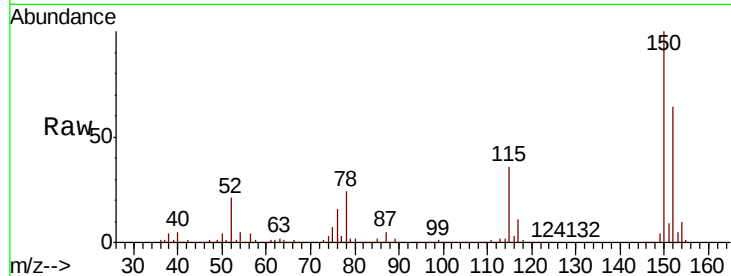
Tot Ion:152 Resp: 109845

Ion Ratio Lower Upper

152 100

115 58.0 41.4 124.2

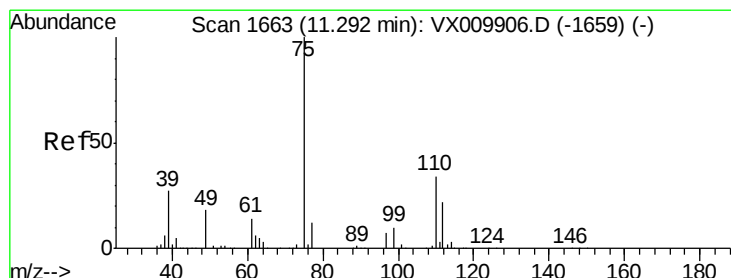
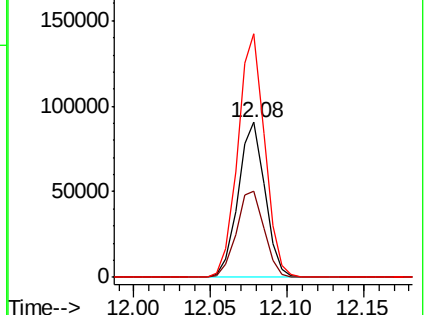
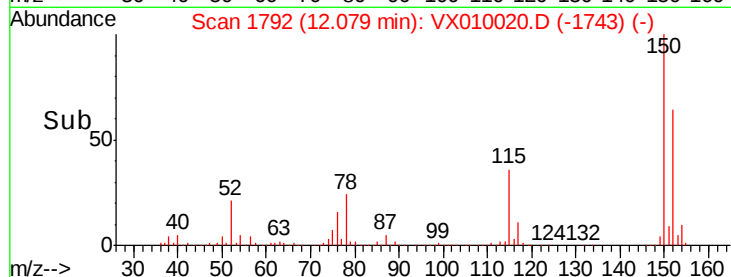
150 157.0 0.0 345.2



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: 22.834 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010020.D

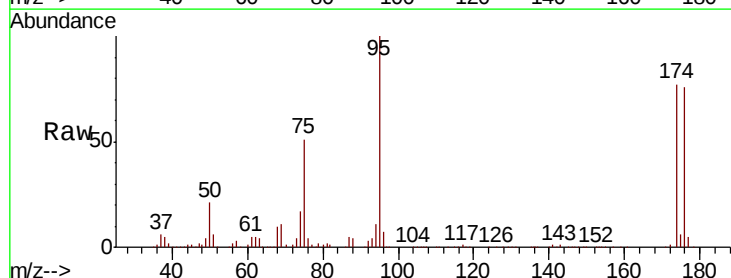
Acq: 01 Jun 2019 06:02

Tgt Ion: 75 Resp: 59978

Ion Ratio Lower Upper

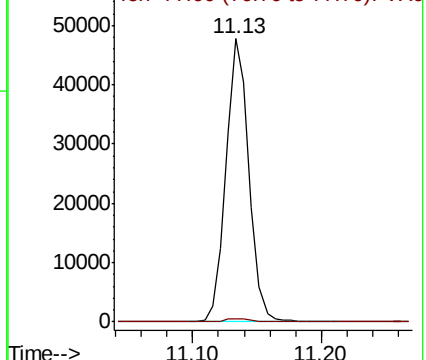
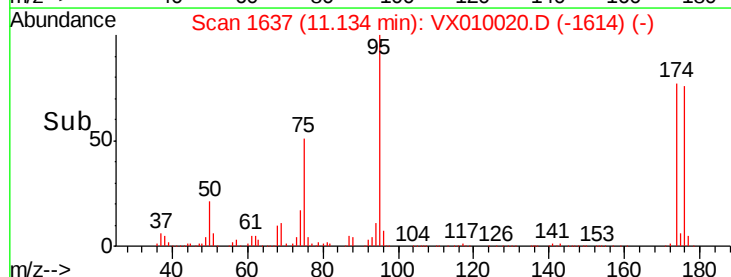
75 100

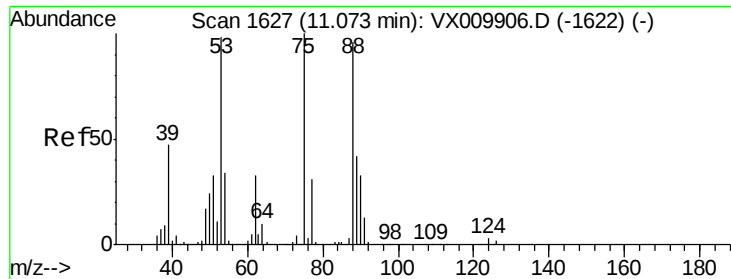
77 1.3 22.1 66.1#



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: 56.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

Instrument :

MSVOA_X

ClientSampleId :

LF012MW004-190528

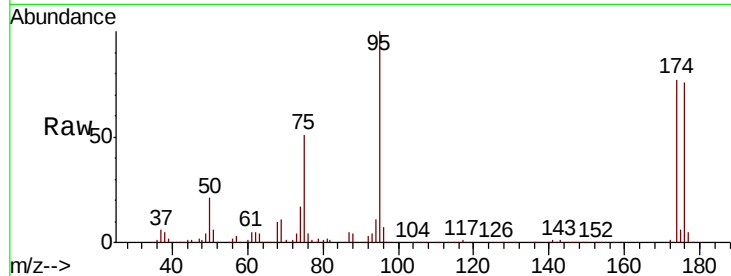
Tot Ion: 75 Resp: 59978

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

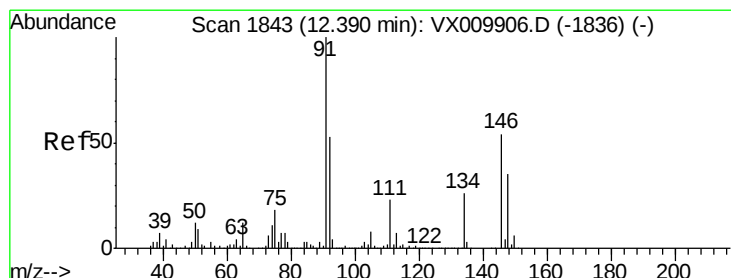
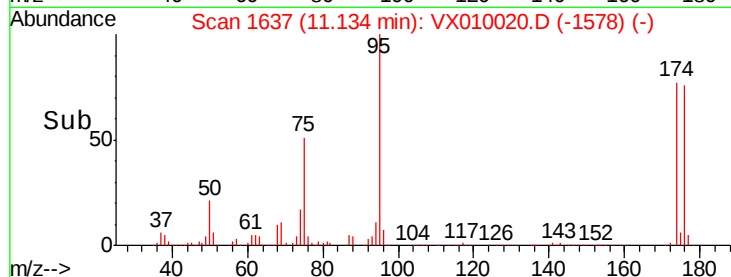
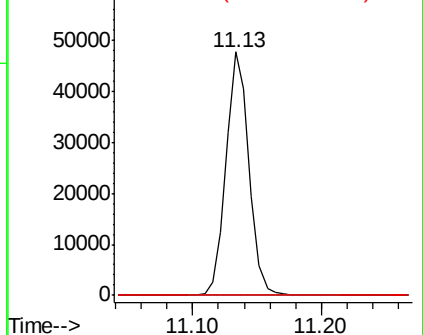
89 0.0 34.2 51.4#



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



#91

1,2-Dichlorobenzene

Concen: 0.511 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX010020.D

Acq: 01 Jun 2019 06:02

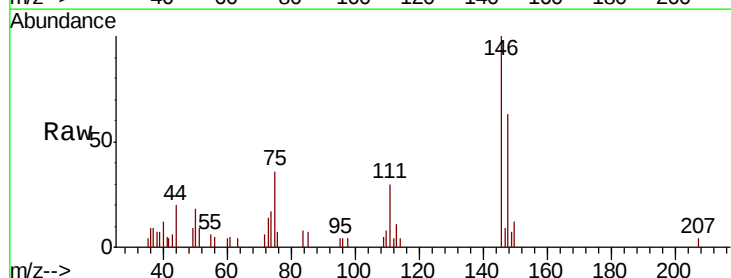
Tgt Ion: 146 Resp: 1852

Ion Ratio Lower Upper

146 100

111 38.4 21.1 63.1

148 70.1 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

