

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX053119\
 Data File : VX010009.D
 Acq On : 01 Jun 2019 01:45
 Operator : JC/SP
 Sample : K3129-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW003-190528

Quant Time: Jun 01 04:48:47 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	179425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	283611	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114635	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	116737	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	
35) Dibromofluoromethane	5.50	113	88292	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
50) Toluene-d8	8.71	98	358652	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	11.13	95	123837	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	

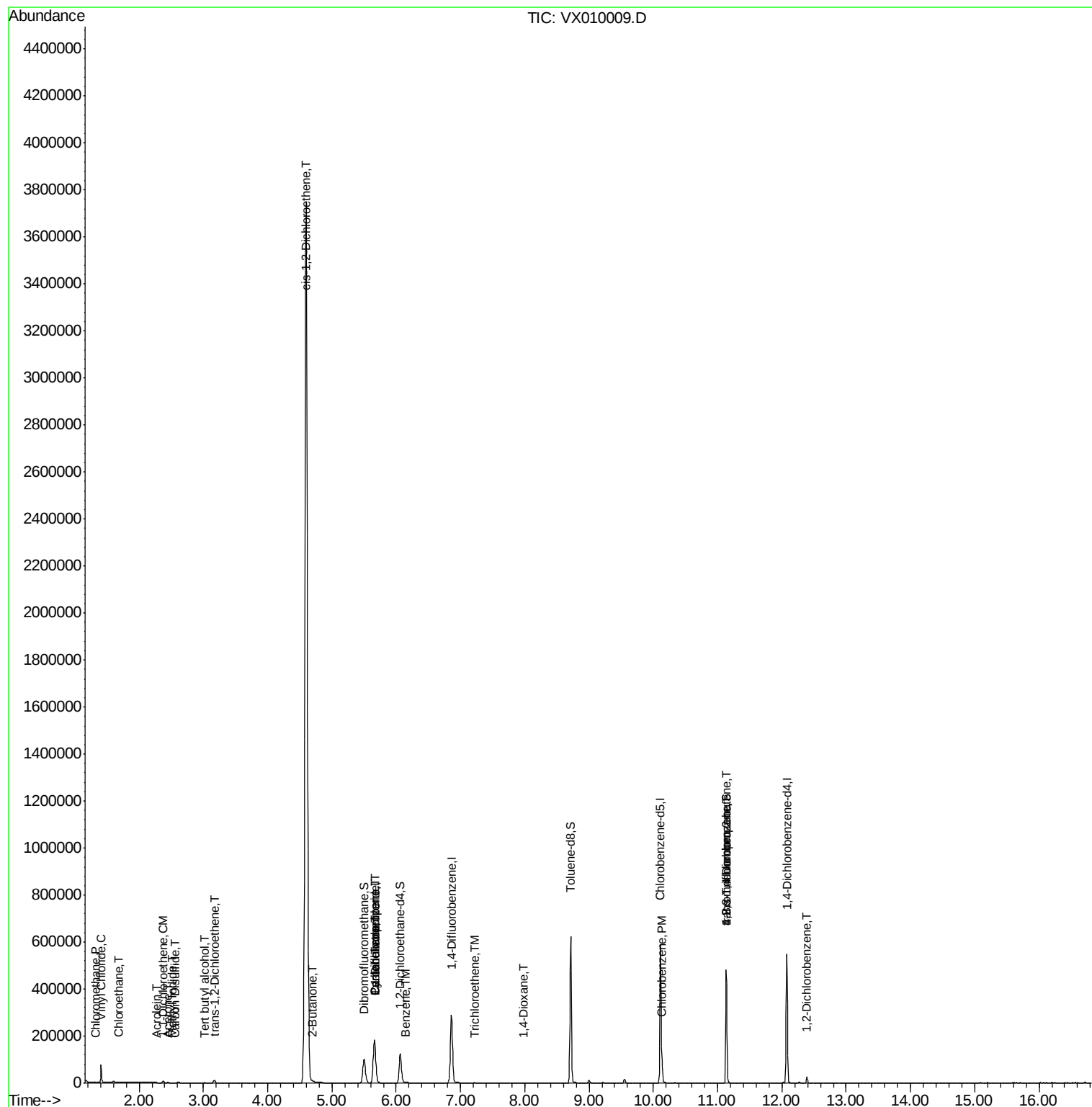
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	613	0.208	ug/l #	81
4) Vinyl Chloride	1.41	62	46623	17.546	ug/l	100
6) Chloroethane	1.70	64	5121	3.131	ug/l #	59
10) Methyl Iodide	2.51	142	19	4.665	ug/l #	15
11) Tert butyl alcohol	3.02	59	933	1.496	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	2495	1.373	ug/l	93
13) Acrolein	2.28	56	42	21.184	ug/l #	14
16) Acetone	2.45	43	1267	0.865	ug/l #	59
17) Carbon Disulfide	2.57	76	546	0.483	ug/l #	76
21) trans-1,2-Dichloroethene	3.17	96	3905	1.931	ug/l	90
25) 2-Butanone	4.71	43	1050	0.460	ug/l #	89
27) cis-1,2-Dichloroethene	4.60	96	2323354	995.503	ug/l	86
31) Cyclohexane	5.66	56	4061	1.053	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14226	4.944	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16518	6.643	ug/l #	16
40) Benzene	6.15	78	3335	0.391	ug/l	91
44) Trichloroethene	7.22	130	507	0.245	ug/l	94
49) 1,4-Dioxane	7.98	88	19	0.319	ug/l #	1
65) Chlorobenzene	10.14	112	27607	5.149	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	63625	23.210	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63625	57.425	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	7926	2.095	ug/l	96

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

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Quant Title : SW846 8260
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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: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

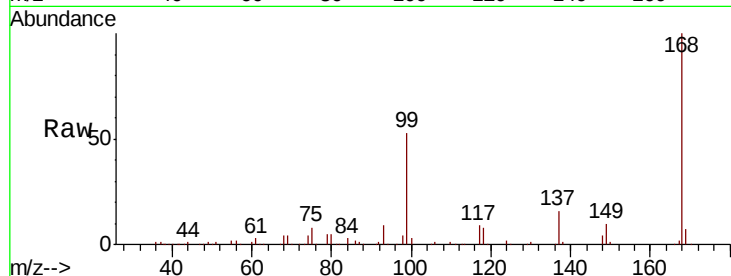
LF012MW003-190528

Tot Ion:168 Resp: 179425

Ion Ratio Lower Upper

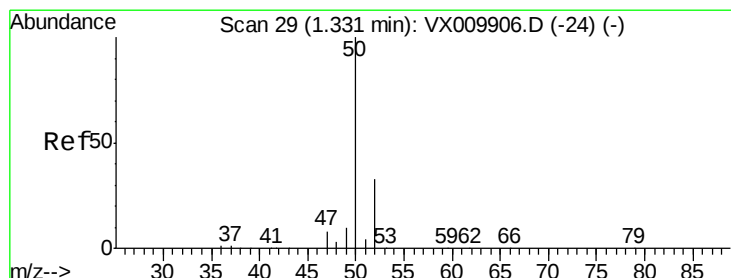
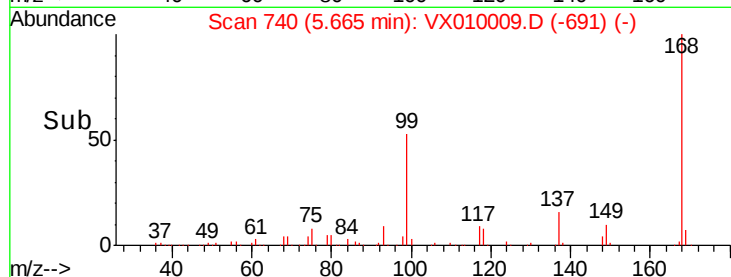
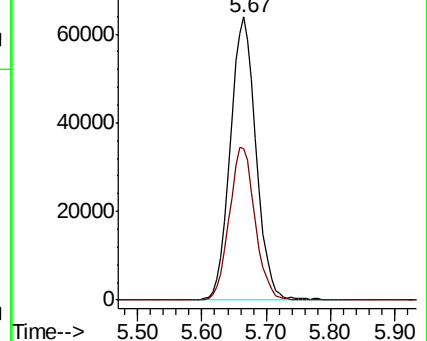
168 100

99 53.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.208 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010009.D

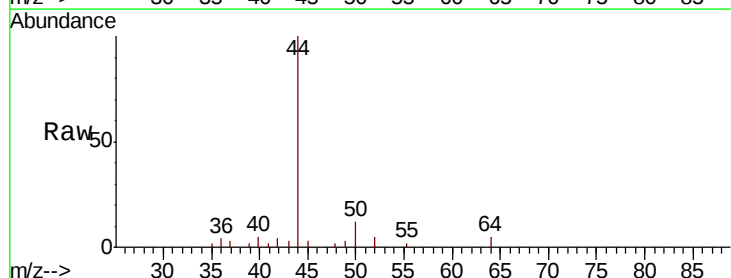
Acq: 01 Jun 2019 01:45

Tgt Ion: 50 Resp: 613

Ion Ratio Lower Upper

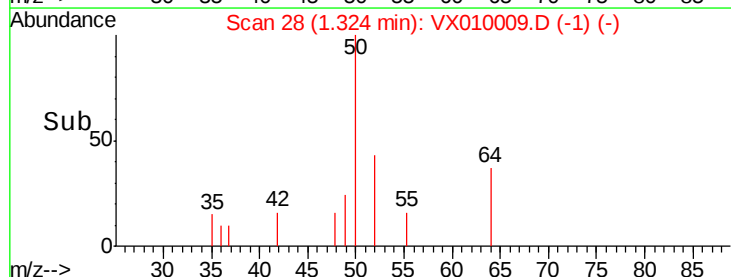
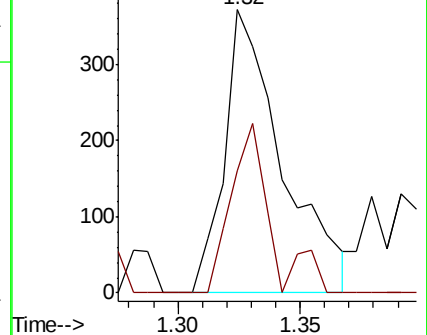
50 100

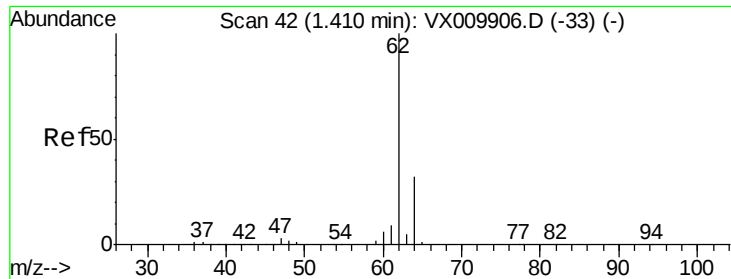
52 43.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 17.546 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

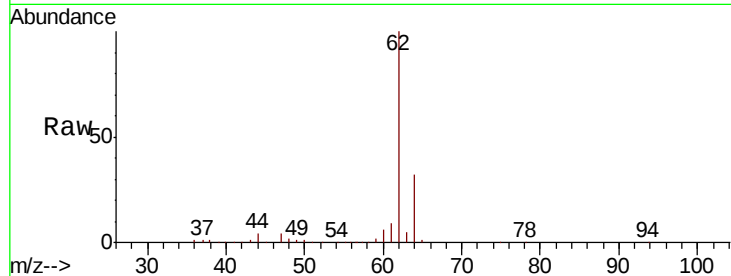
LF012MW003-190528

Tot Ion: 62 Resp: 46623

Ion Ratio Lower Upper

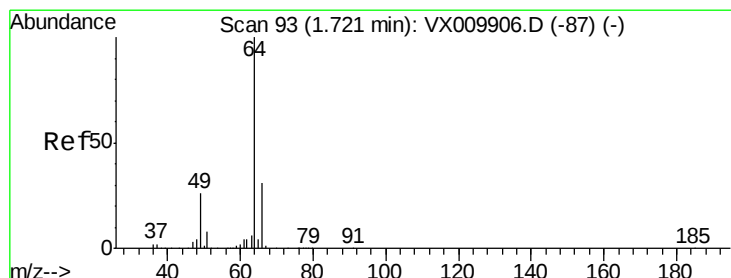
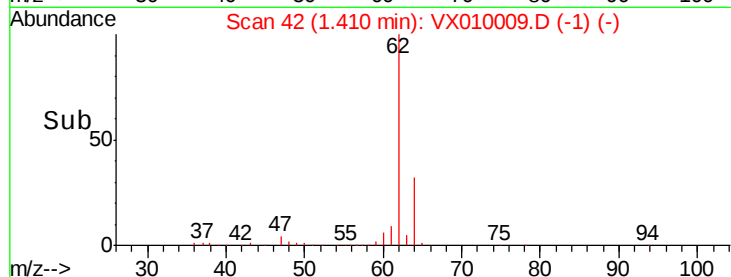
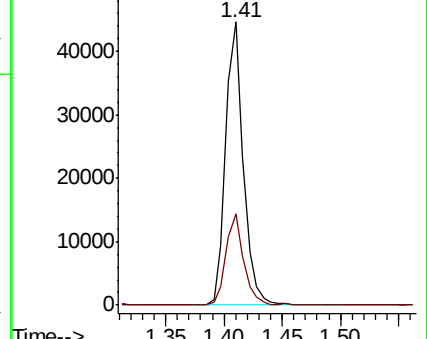
62 100

64 32.1 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: 3.131 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX010009.D

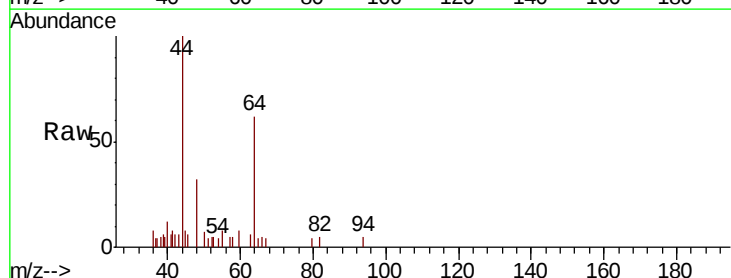
Acq: 01 Jun 2019 01:45

Tgt Ion: 64 Resp: 5121

Ion Ratio Lower Upper

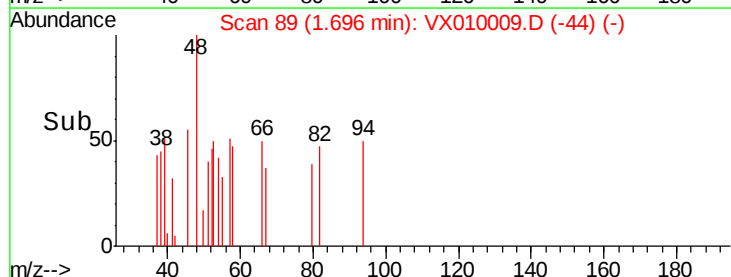
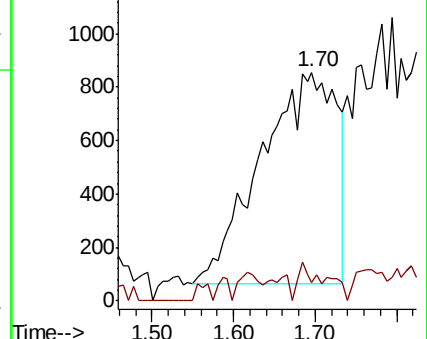
64 100

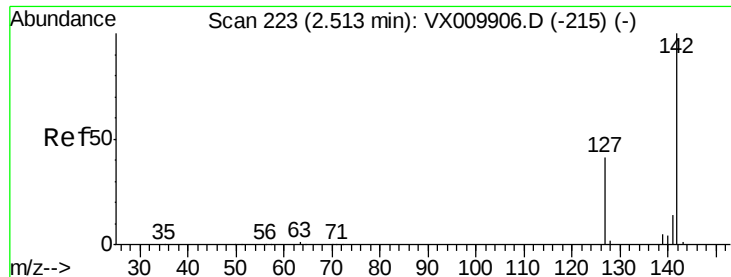
66 8.8 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

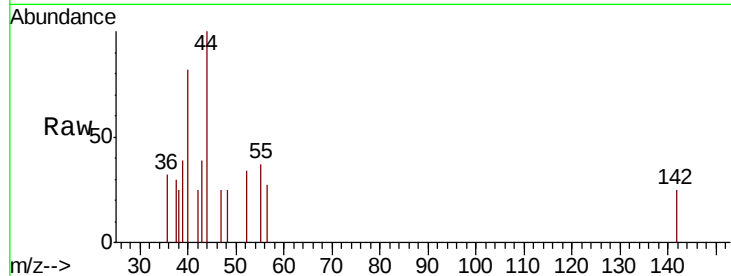




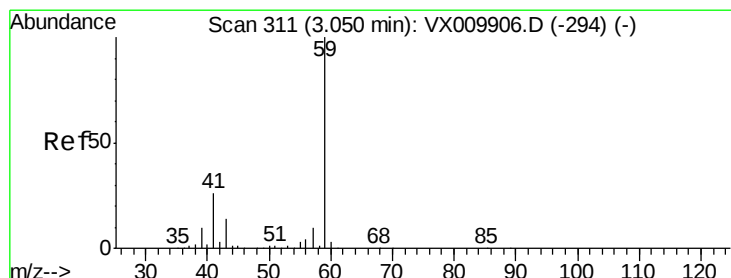
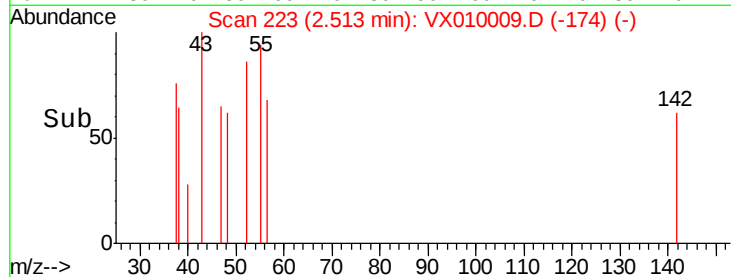
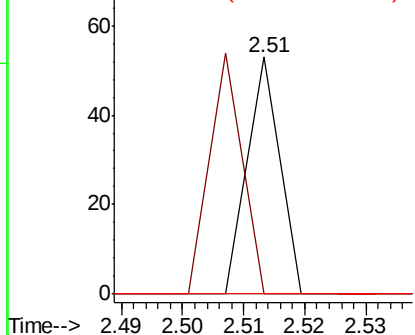
#10
Methvl Iodide
Concen: 4.665 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Instrument :
MSVOA_X
ClientSampleId :
LF012MW003-190528

Tot Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 105.3 33.0 49.4#
141 0.0 11.4 17.0#

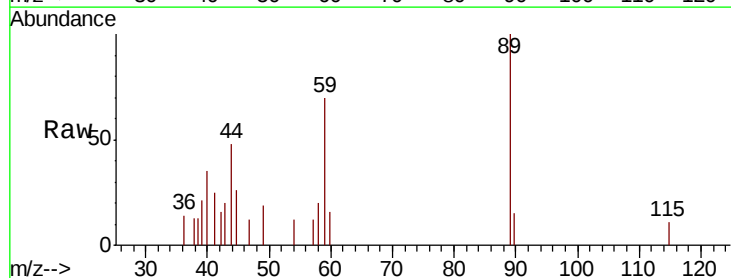


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

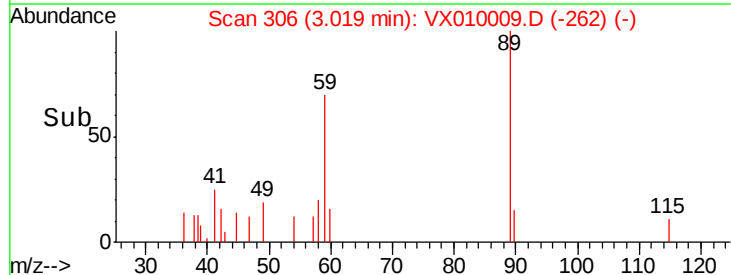
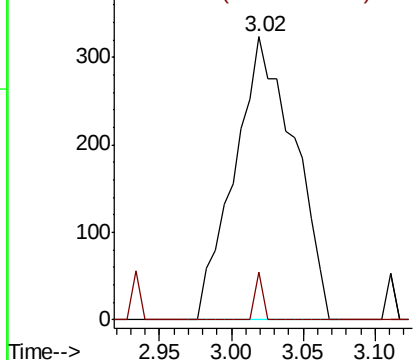


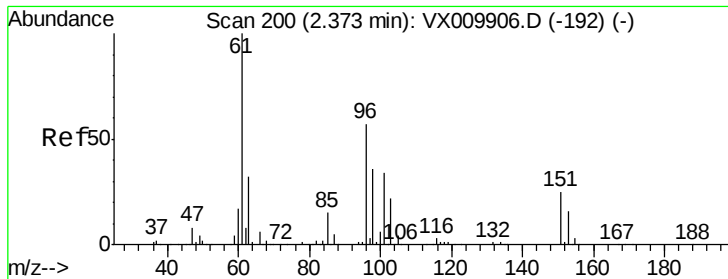
#11
Tert butyl alcohol
Concen: 1.496 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Tgt Ion: 59 Resp: 933
Ion Ratio Lower Upper
59 100
57 2.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.373 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-190528

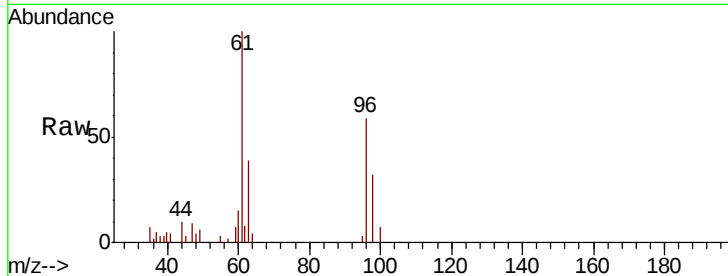
Tot Ion: 96 Resp: 2495

Ion Ratio Lower Upper

96 100

61 168.2 140.7 211.1

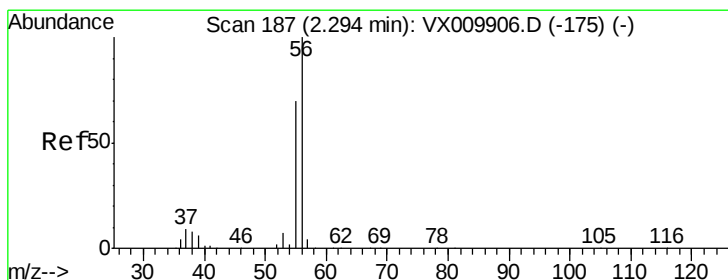
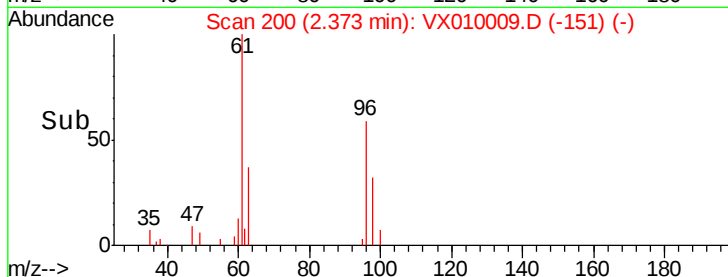
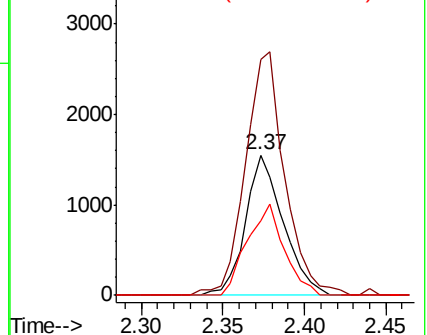
98 53.2 50.1 75.1



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: 21.184 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX010009.D

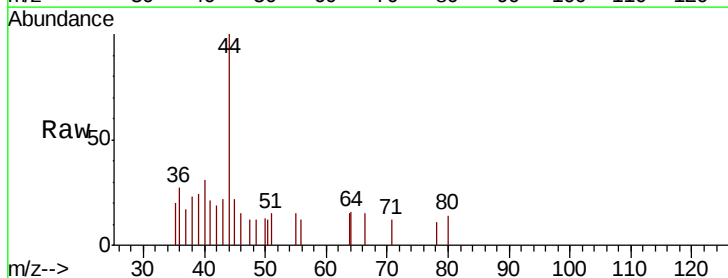
Acq: 01 Jun 2019 01:45

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

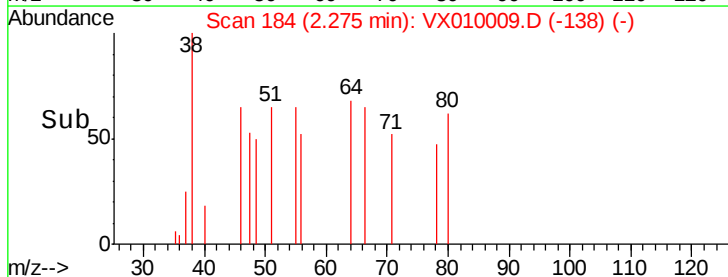
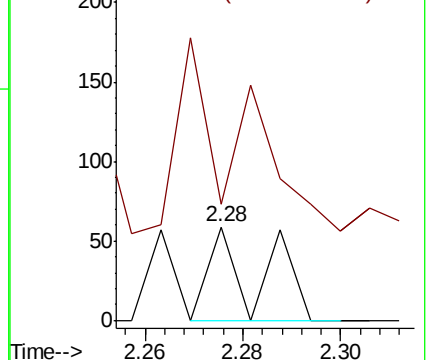
56 100

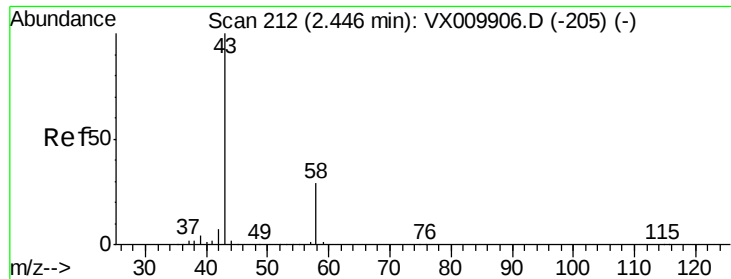
55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.865 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

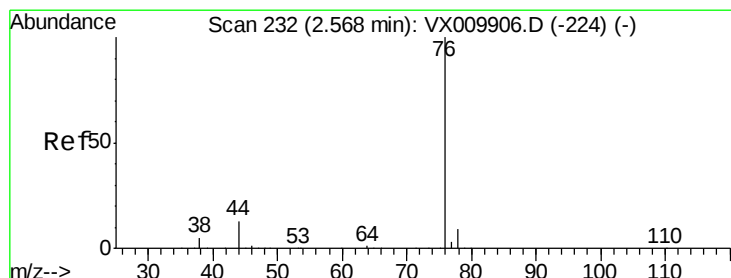
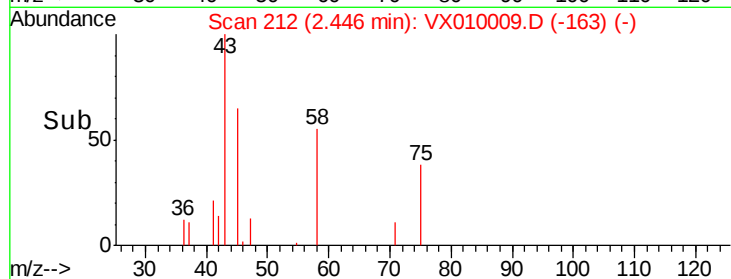
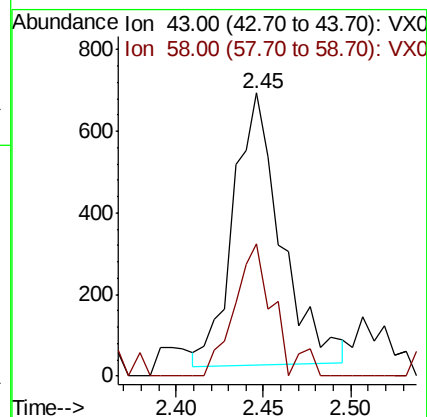
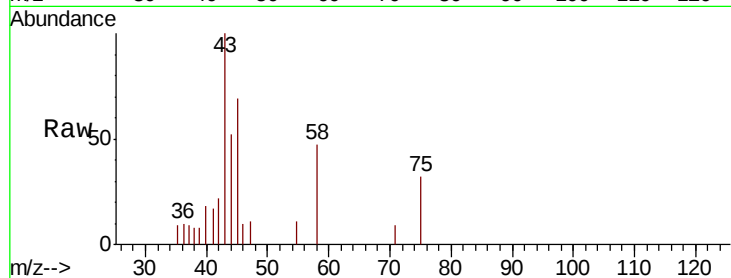
LF012MW003-190528

Tot Ion: 43 Resp: 1267

Ion Ratio Lower Upper

43 100

58 50.8 23.2 34.8#



#17

Carbon Disulfide

Concen: 0.483 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010009.D

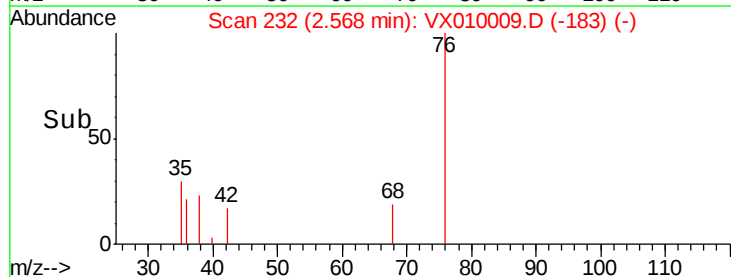
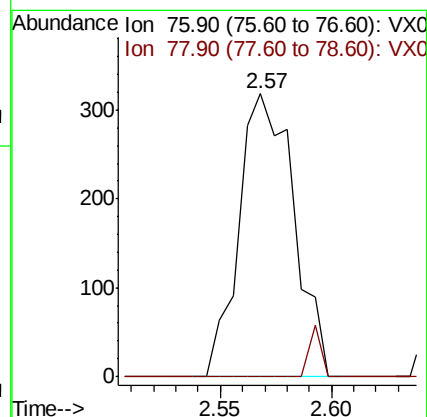
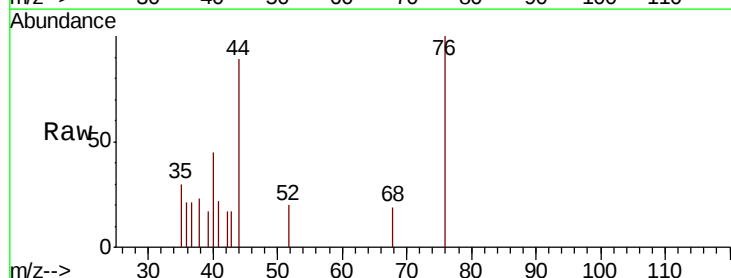
Acq: 01 Jun 2019 01:45

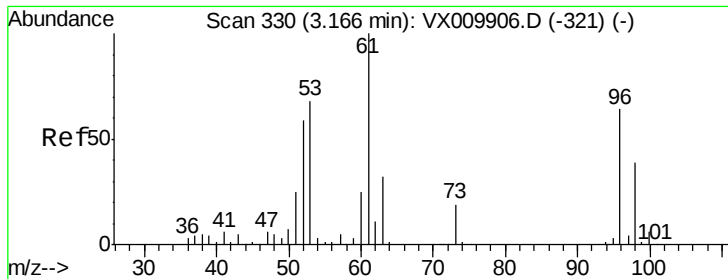
Tgt Ion: 76 Resp: 546

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#





#21

trans-1,2-Dichloroethene

Concen: 1.931 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-190528

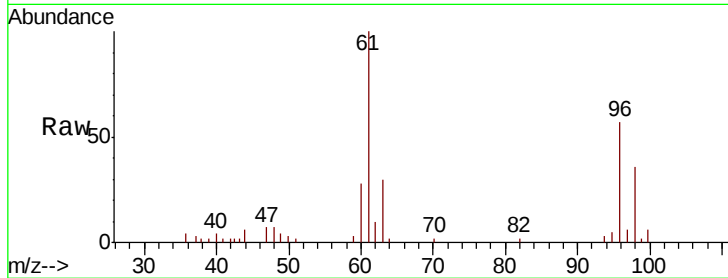
Tot Ion: 96 Resp: 3905

Ion Ratio Lower Upper

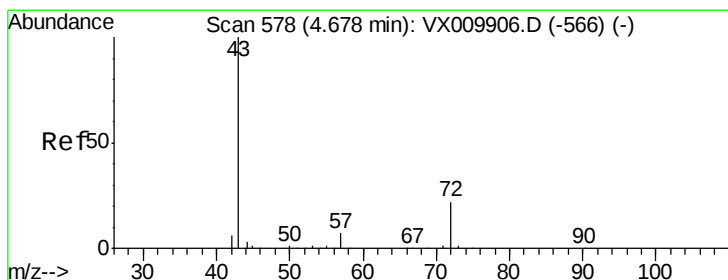
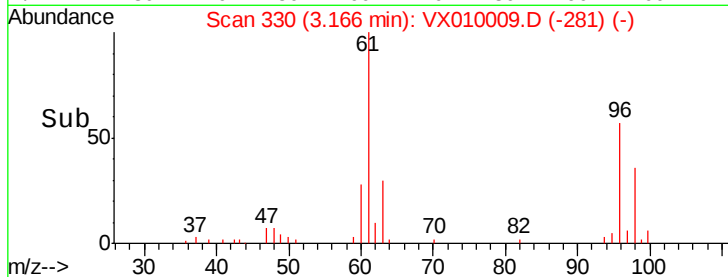
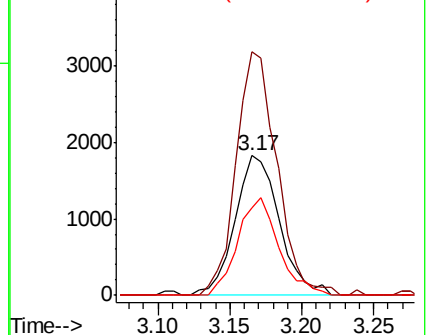
96 100

61 174.5 125.7 188.5

98 62.5 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



#25

2-Butanone

Concen: 0.460 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.03 min

Lab File: VX010009.D

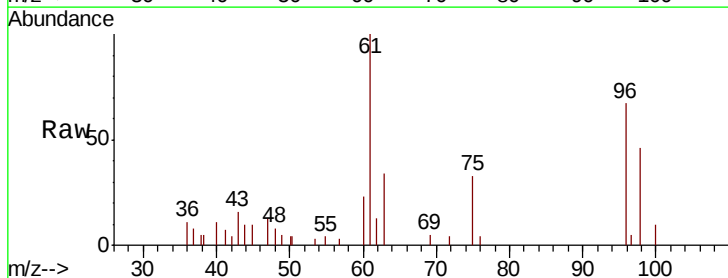
Acq: 01 Jun 2019 01:45

Tgt Ion: 43 Resp: 1050

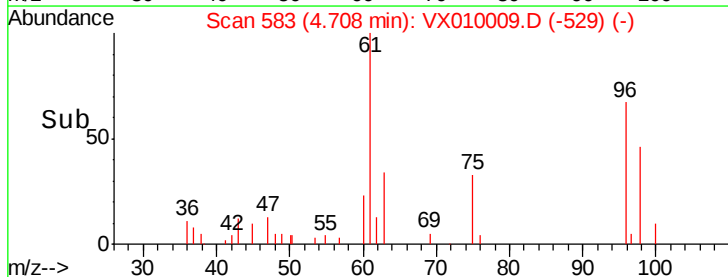
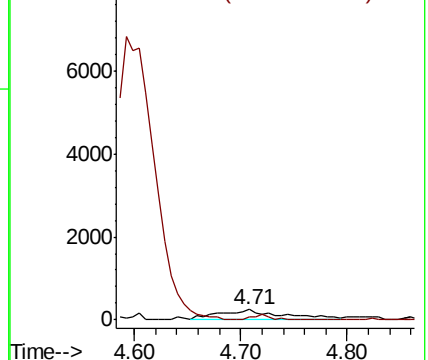
Ion Ratio Lower Upper

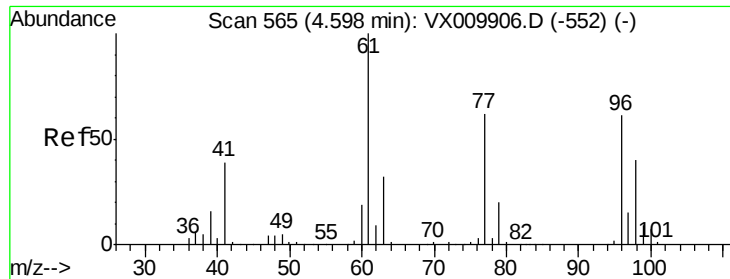
43 100

72 27.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



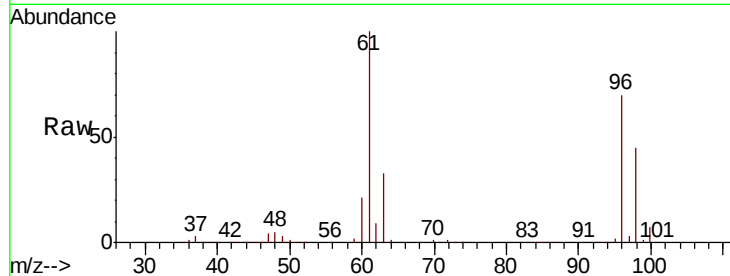


#27

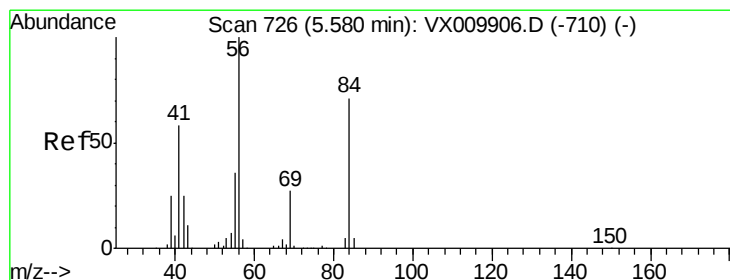
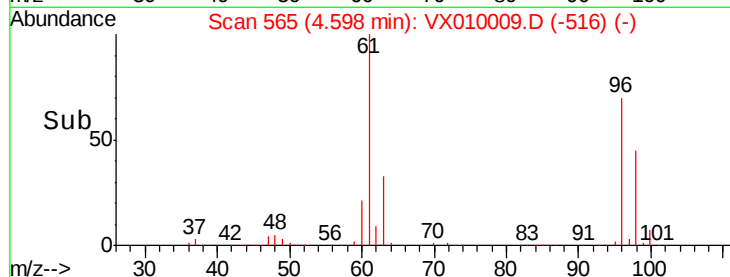
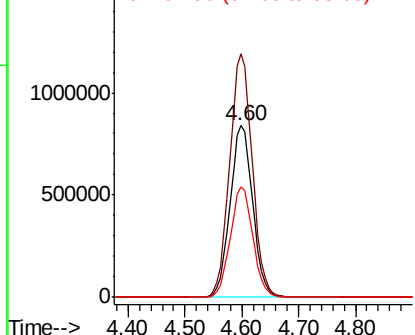
cis-1,2-Dichloroethene
 Concen: 995.503 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX010009.D
 Acq: 01 Jun 2019 01:45

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW003-190528

Tot Ion: 96 Resp: 2323354
 Ion Ratio Lower Upper
 96 100
 61 142.1 0.0 334.0
 98 64.2 0.0 131.6



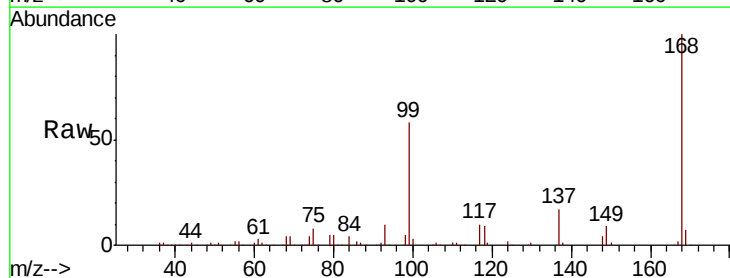
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



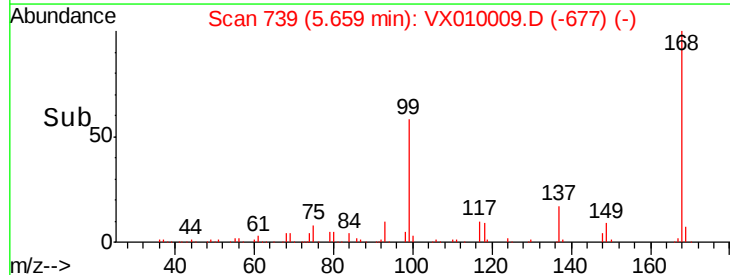
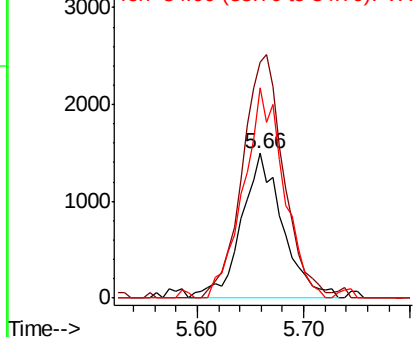
#31

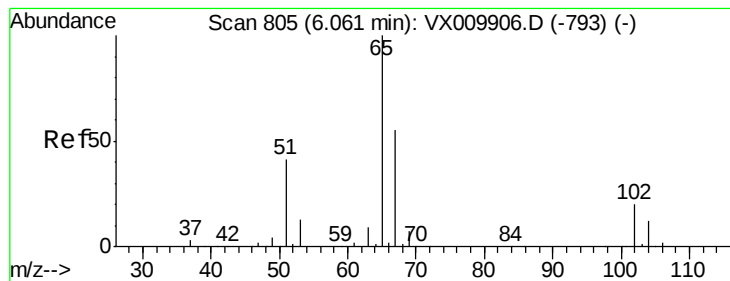
Cyclohexane
 Concen: 1.053 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX010009.D
 Acq: 01 Jun 2019 01:45

Tgt Ion: 56 Resp: 4061
 Ion Ratio Lower Upper
 56 100
 69 162.4 21.6 32.4#
 84 141.5 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: 46.059 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

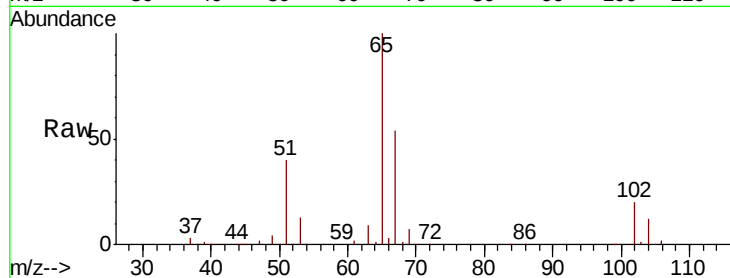
LF012MW003-190528

Tot Ion: 65 Resp: 116737

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

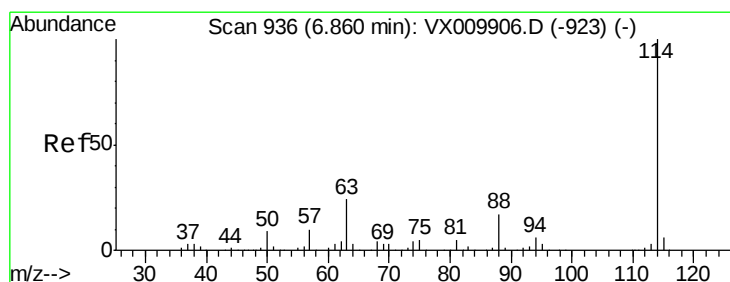
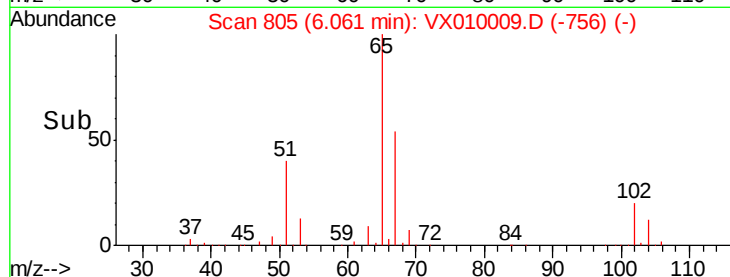
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

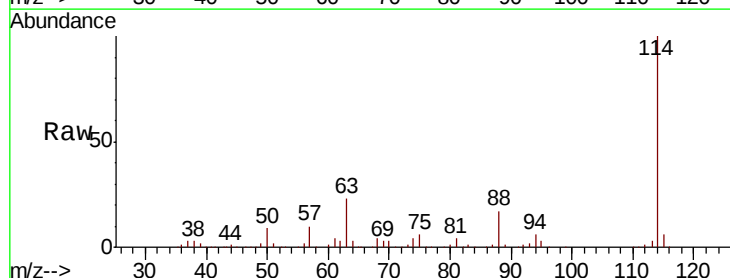
Tgt Ion: 114 Resp: 283611

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.4

88 16.5 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

150000

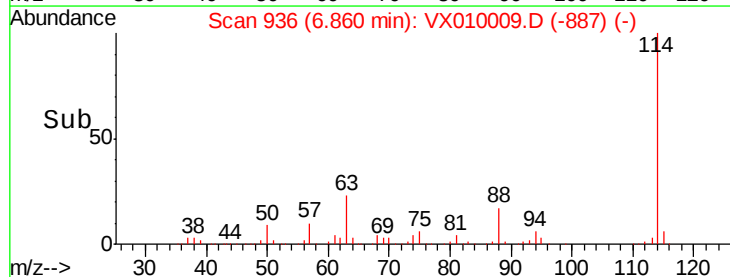
100000

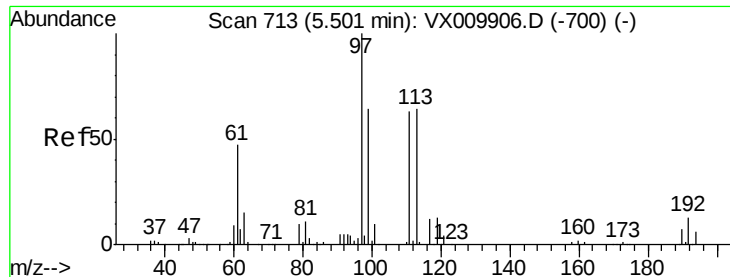
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 49.517 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-190528

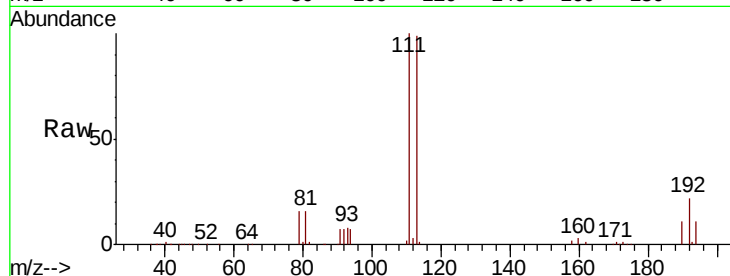
Tot Ion:113 Resp: 88292

Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.2

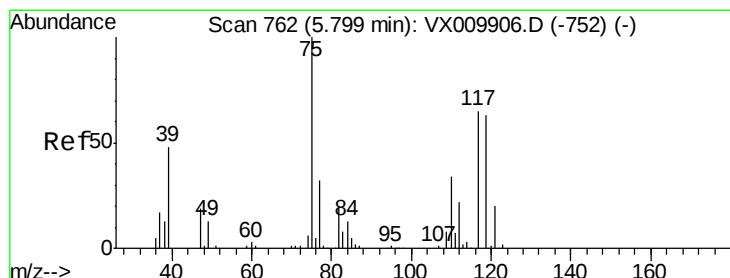
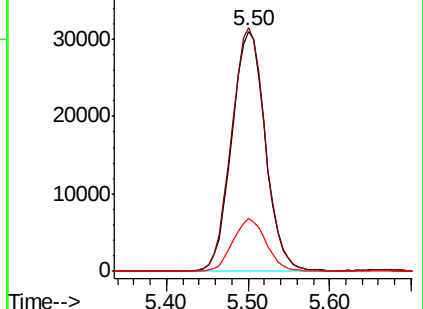
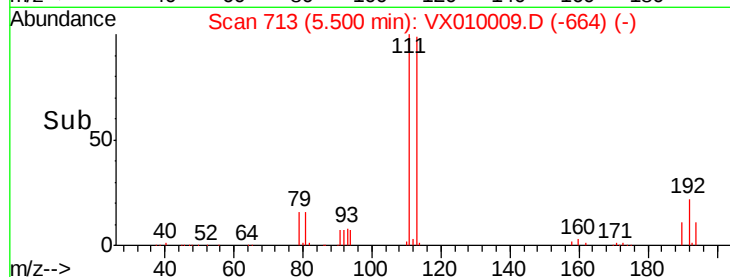
192 21.8 17.1 25.7



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: 4.944 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

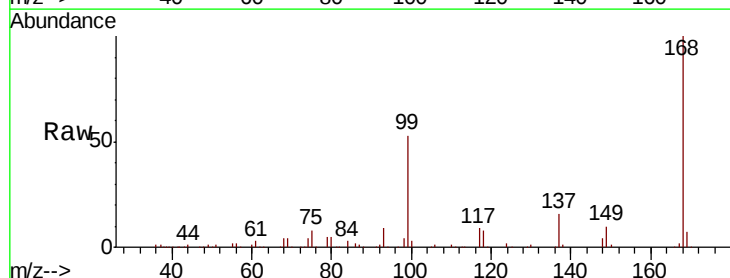
Tgt Ion: 75 Resp: 14226

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

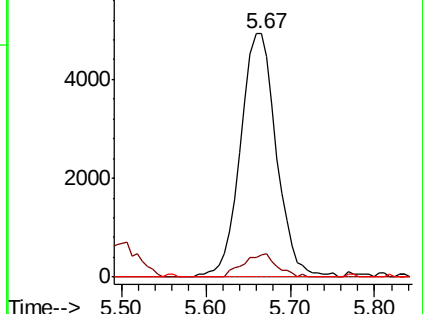
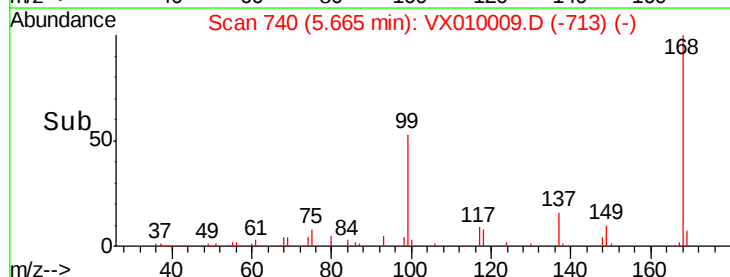
77 0.0 25.0 37.4#

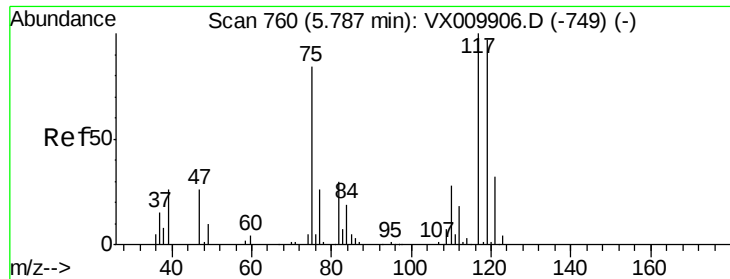


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.643 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-190528

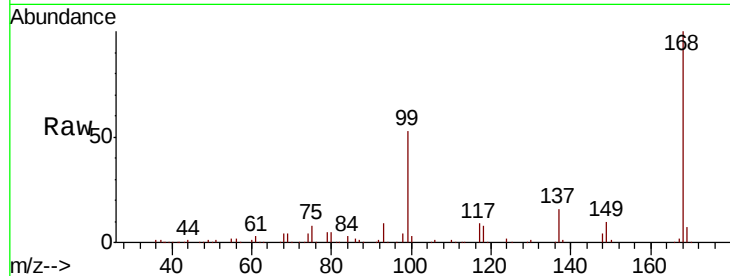
Tot Ion:117 Resp: 16518

Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

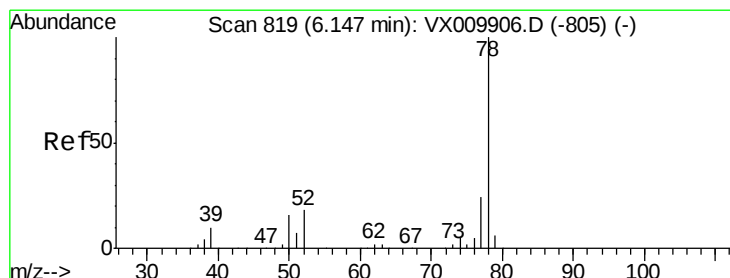
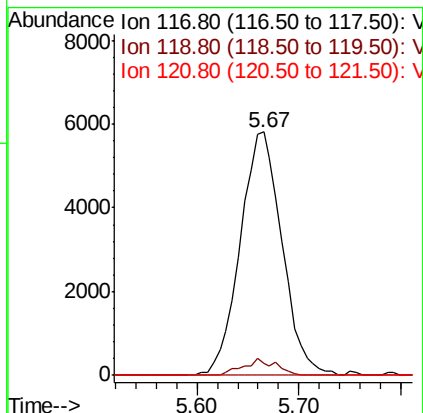
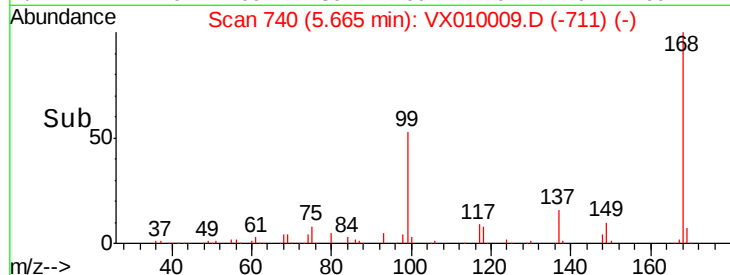
121 0.0 25.4 38.0#



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



#40

Benzene

Concen: 0.391 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX010009.D

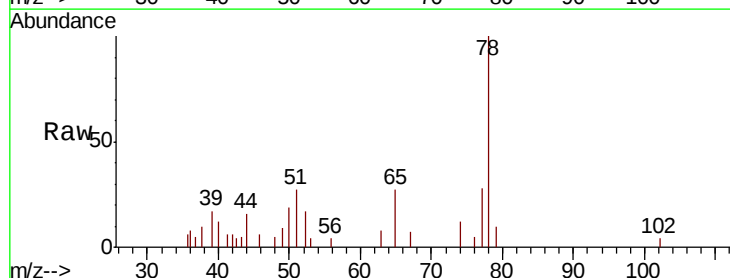
Acq: 01 Jun 2019 01:45

Tgt Ion: 78 Resp: 3335

Ion Ratio Lower Upper

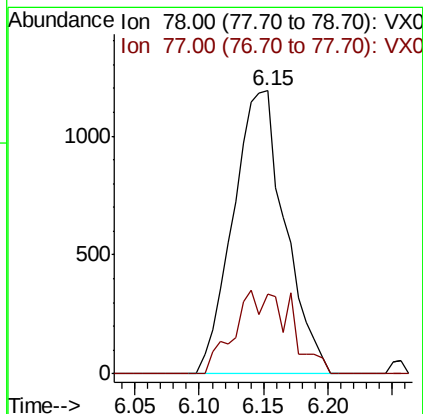
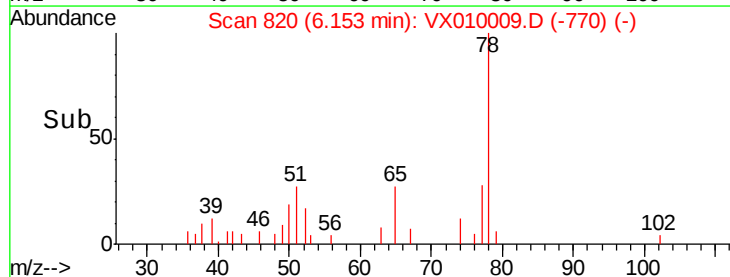
78 100

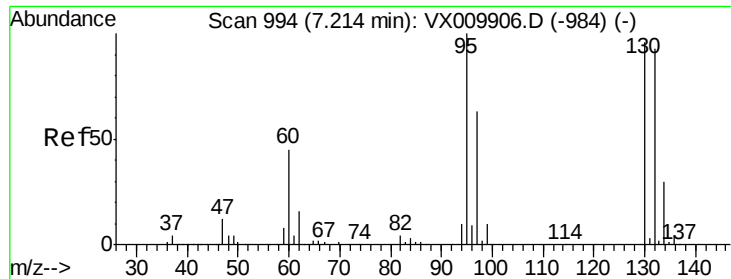
77 28.4 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.245 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

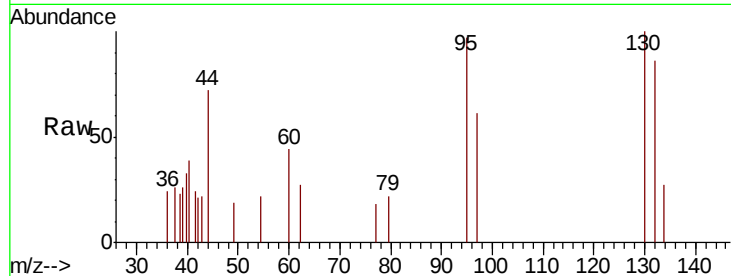
LF012MW003-190528

Tot Ion:130 Resp: 507

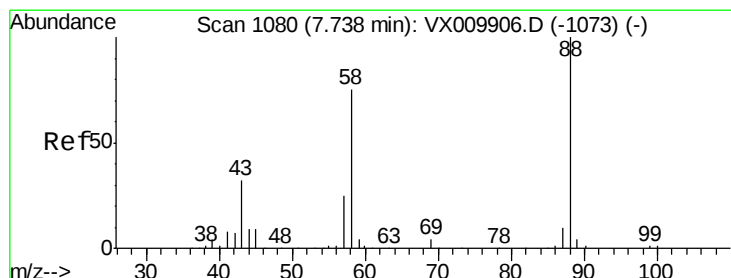
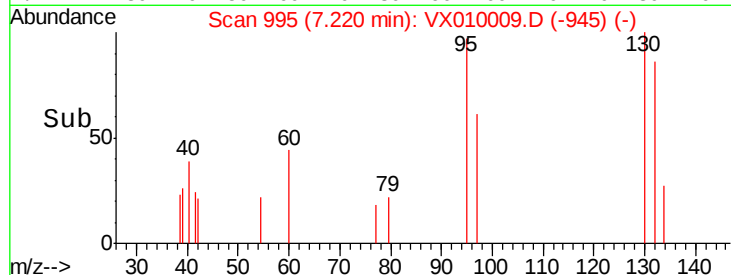
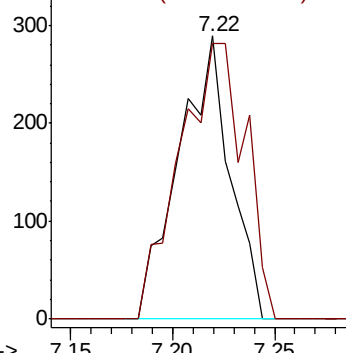
Ion Ratio Lower Upper

130 100

95 97.2 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.319 ug/l

RT: 7.98 min Scan# 1120

Delta R.T. 0.24 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

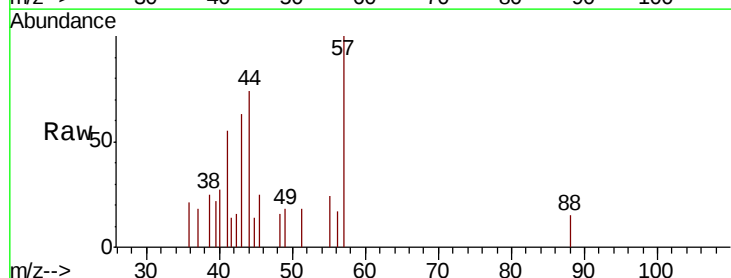
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 2789.5 30.2 45.4#

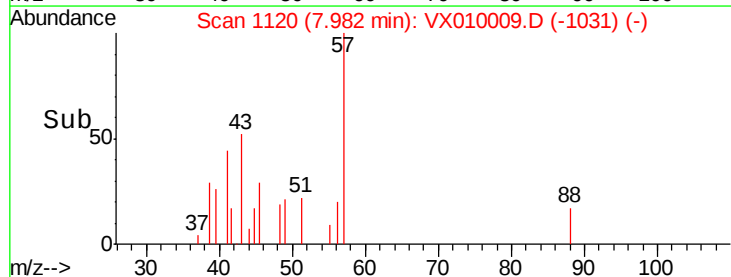
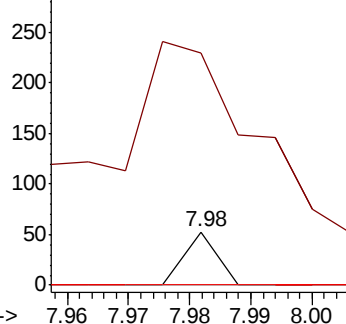
58 0.0 64.0 96.0#

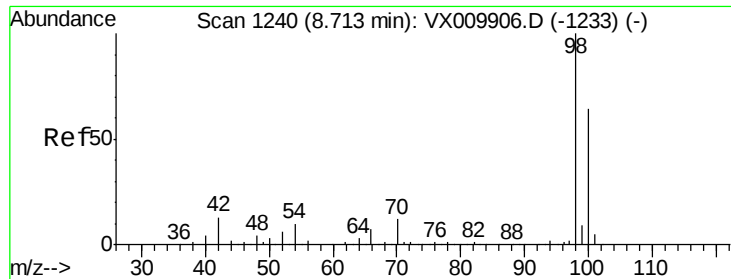


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.533 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

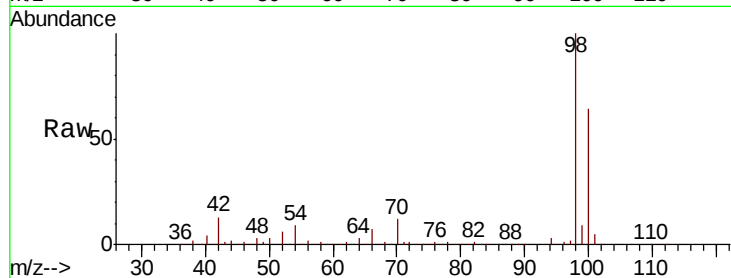
LF012MW003-190528

Tot Ion: 98 Resp: 358652

Ion Ratio Lower Upper

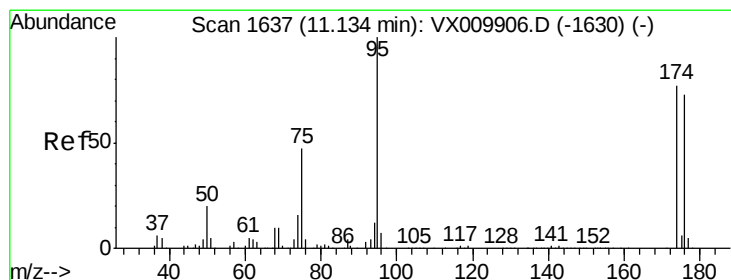
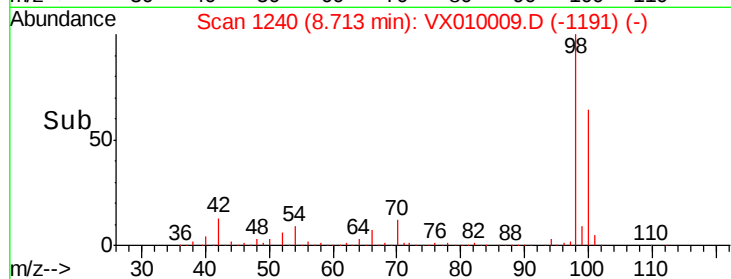
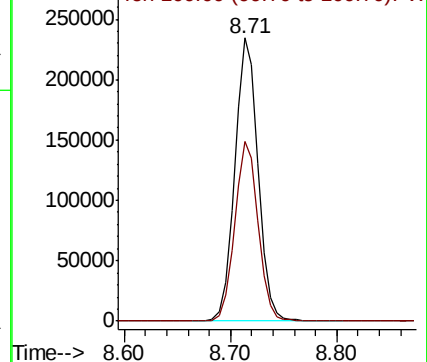
98 100

100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.617 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010009.D

Acq: 01 Jun 2019 01:45

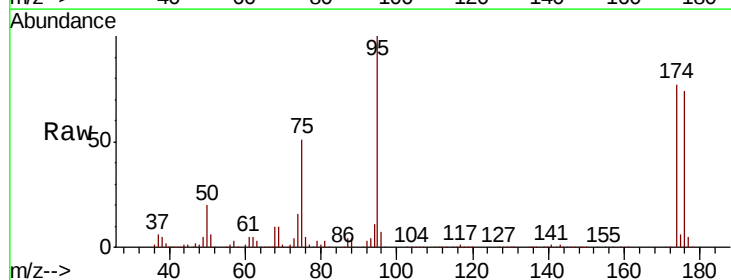
Tgt Ion: 95 Resp: 123837

Ion Ratio Lower Upper

95 100

174 82.8 0.0 160.4

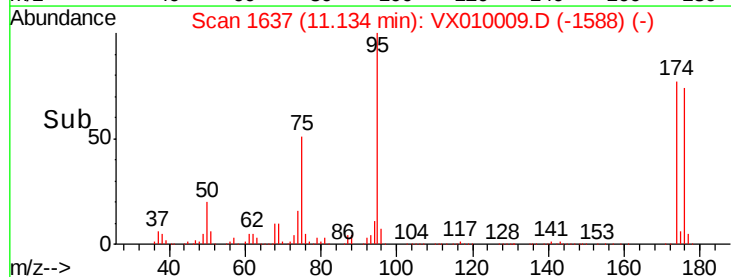
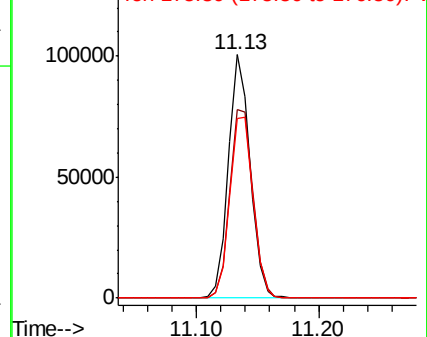
176 79.5 0.0 154.6

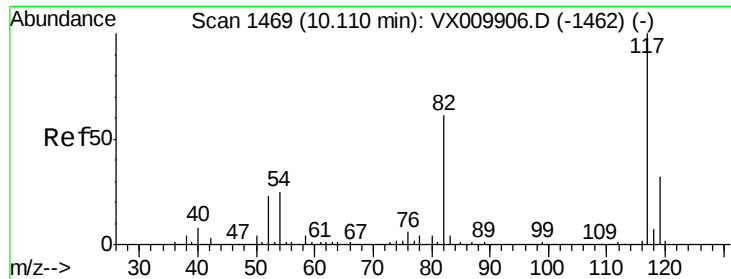


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

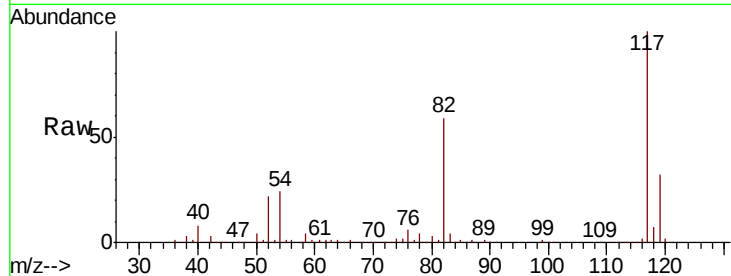




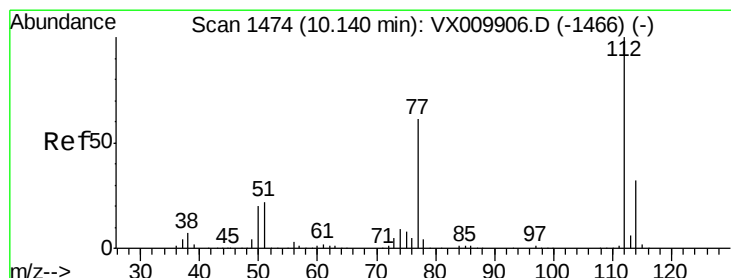
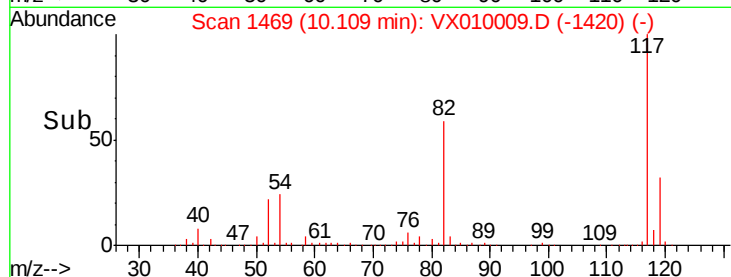
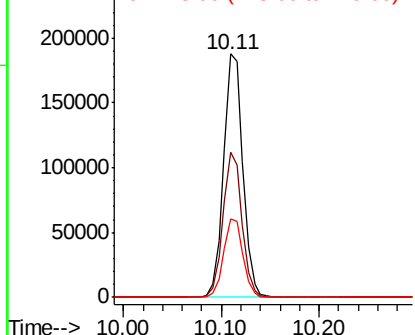
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Instrument :
MSVOA_X
ClientSampleId :
LF012MW003-190528

Tot Ion:117 Resp: 256131
Ion Ratio Lower Upper
117 100
82 59.3 49.2 73.8
119 32.1 25.2 37.8

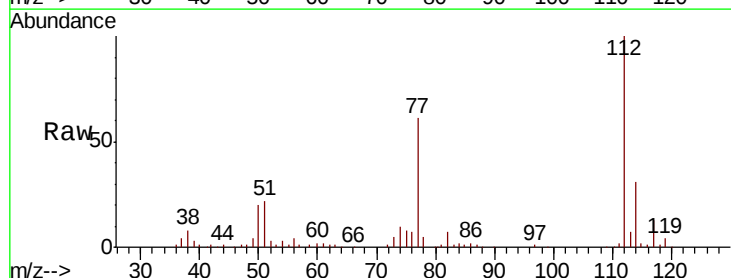


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

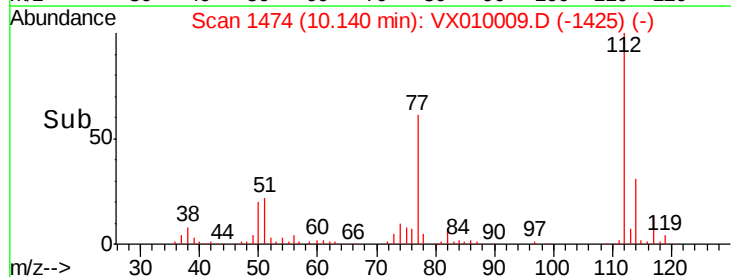
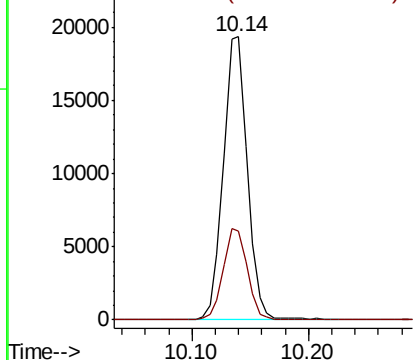


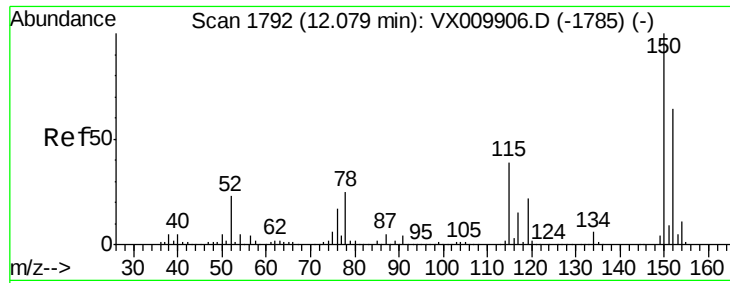
#65
Chlorobenzene
Concen: 5.149 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Tgt Ion:112 Resp: 27607
Ion Ratio Lower Upper
112 100
114 31.5 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: VX010009.D

Acq: 01 Jun 2019 01:45

Instrument :

MSVOA_X

ClientSampleId :

LF012MW003-190528

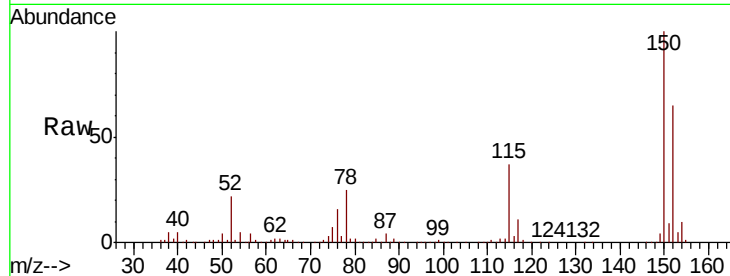
Tot Ion:152 Resp: 114635

Ion Ratio Lower Upper

152 100

115 57.8 41.4 124.2

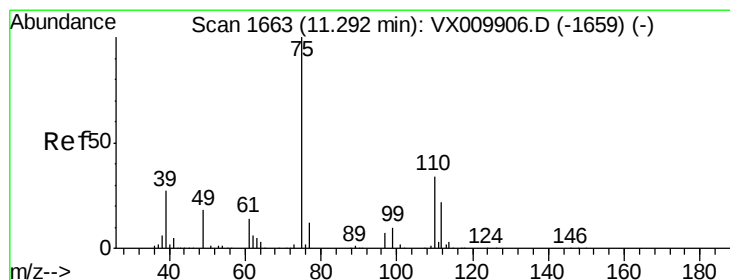
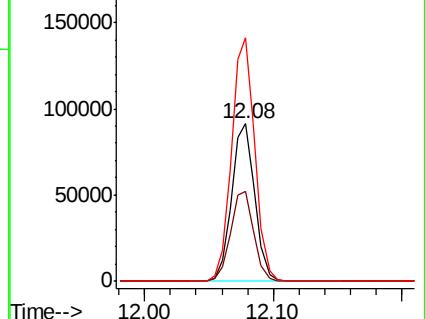
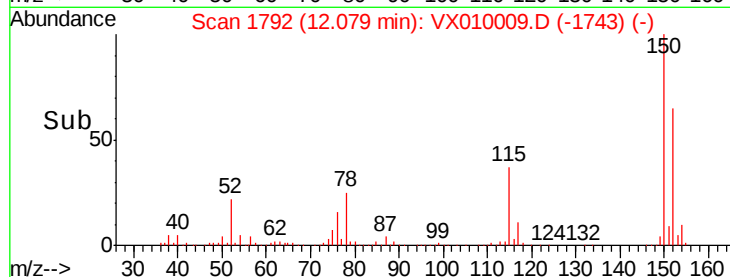
150 155.3 0.0 345.2



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: 23.210 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010009.D

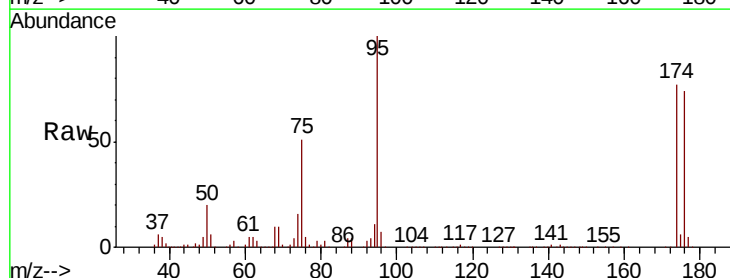
Acq: 01 Jun 2019 01:45

Tgt Ion: 75 Resp: 63625

Ion Ratio Lower Upper

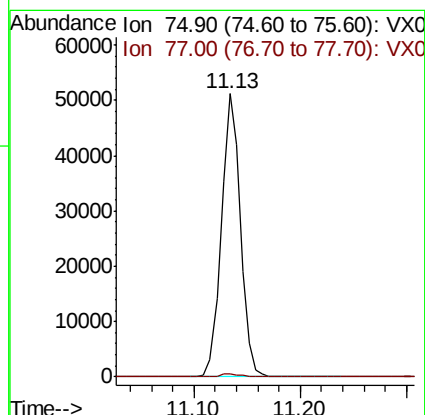
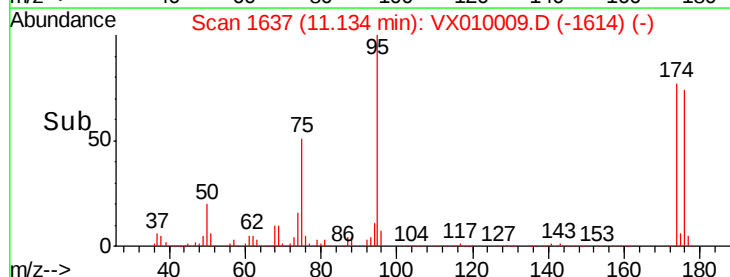
75 100

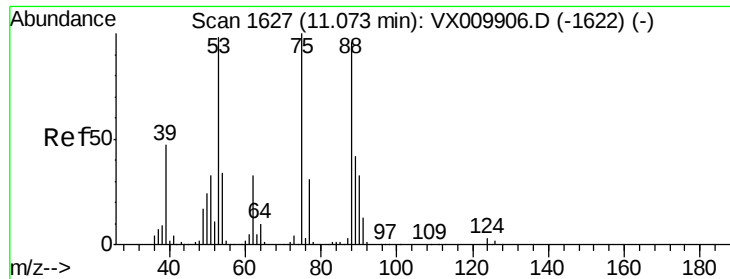
77 1.2 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

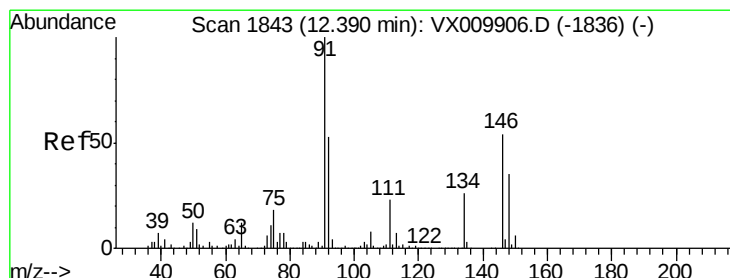
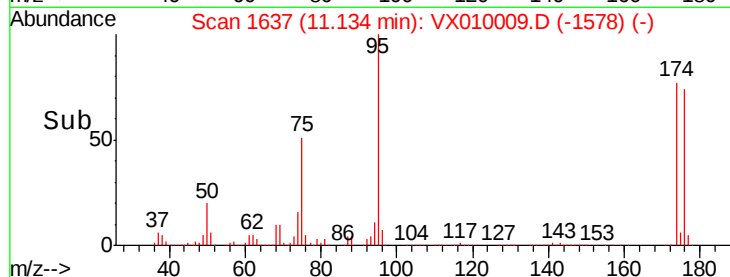
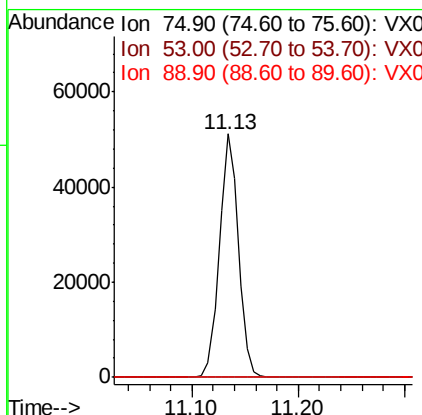
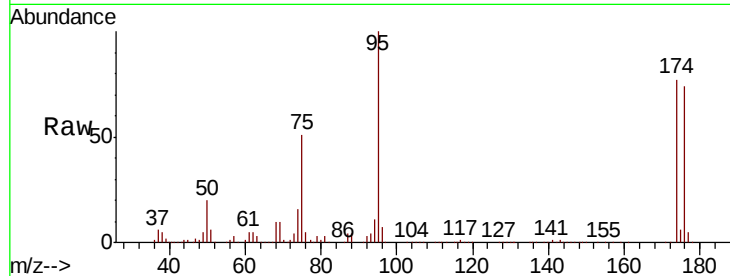




#81
trans-1,4-Dichloro-2-butene
Concen: 57.425 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Instrument :
MSVOA_X
ClientSampleId :
LF012MW003-190528

Tot Ion: 75 Resp: 63625
Ion Ratio Lower Upper
75 100
53 0.1 79.8 119.6#
89 0.0 34.2 51.4#



#91
1,2-Dichlorobenzene
Concen: 2.095 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX010009.D
Acq: 01 Jun 2019 01:45

Tgt Ion: 146 Resp: 7926
Ion Ratio Lower Upper
146 100
111 40.8 21.1 63.1
148 68.1 32.3 96.8

