

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060319\
 Data File : VX010037.D
 Acq On : 03 Jun 2019 15:37
 Operator : JC/SP
 Sample : K3131-02DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 03:40:34 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	5.66	168	173818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	276129	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110970	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	114288	46.55	ug/l	0.00
Spiked Amount						
			Recovery	=	93.10%	
35) Dibromofluoromethane	5.50	113	84849	48.88	ug/l	0.00
Spiked Amount						
			Recovery	=	97.76%	
50) Toluene-d8	8.71	98	350857	49.77	ug/l	0.00
Spiked Amount						
			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	11.13	95	119709	47.28	ug/l	0.00
Spiked Amount						
			Recovery	=	94.56%	

Target Compounds

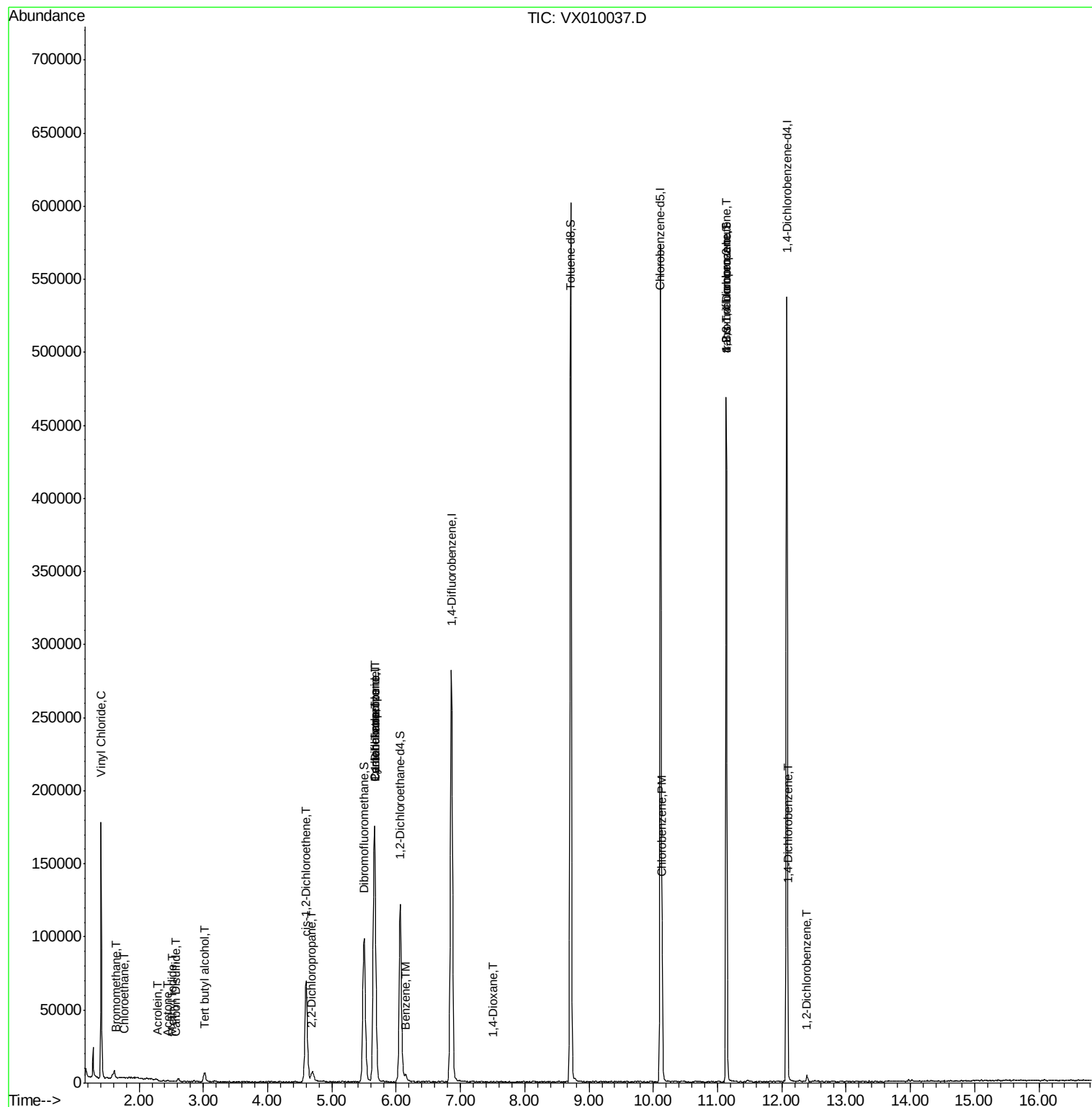
						Qvalue
4) Vinyl Chloride	1.41	62	114727	44.569	ug/l	99
5) Bromomethane	1.64	94	439	0.281	ug/l	88
6) Chloroethane	1.76	64	1666	1.051	ug/l #	63
10) Methyl Iodide	2.51	142	188	4.737	ug/l #	78
11) Tert butyl alcohol	3.01	59	4166	6.894	ug/l #	78
13) Acrolein	2.29	56	62	21.229	ug/l #	14
16) Acetone	2.45	43	1101	0.776	ug/l #	87
17) Carbon Disulfide	2.57	76	446	0.468	ug/l #	76
26) 2,2-Dichloropropane	4.68	77	778	0.261	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	42931	18.988	ug/l	87
31) Cyclohexane	5.67	56	3971	1.063	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13463	4.805	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16201	6.692	ug/l #	16
40) Benzene	6.15	78	4989	0.600	ug/l	100
49) 1,4-Dioxane	7.51	88	23	0.397	ug/l #	1
65) Chlorobenzene	10.14	112	34628	6.551	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	61994	23.362	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61994	57.801	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1635	0.432	ug/l #	34
91) 1,2-Dichlorobenzene	12.39	146	1445	0.395	ug/l	95

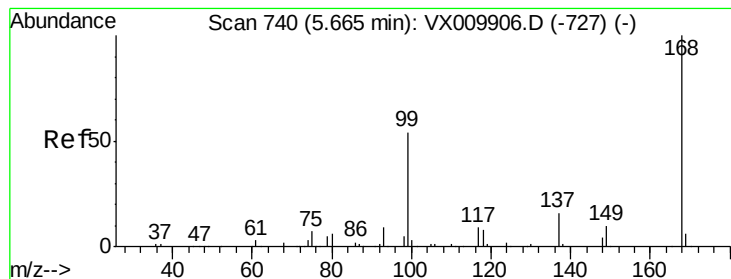
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

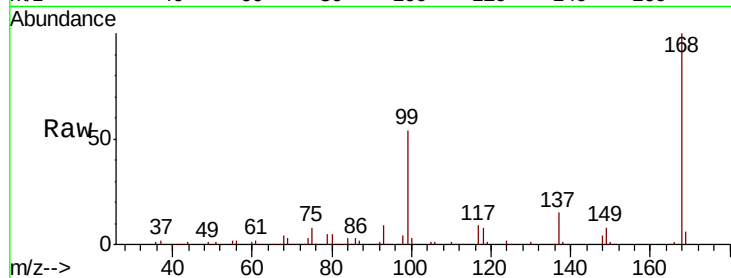
ClientSampleId :

Tot Ion:168 Resp: 173818

Ion Ratio Lower Upper

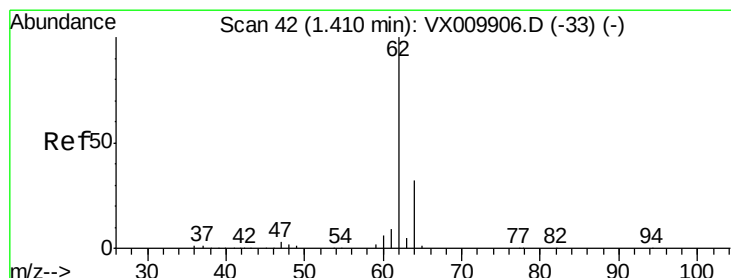
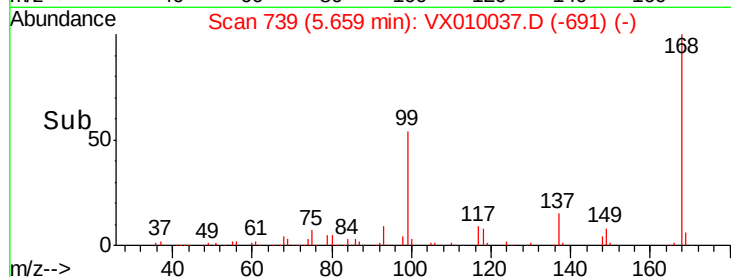
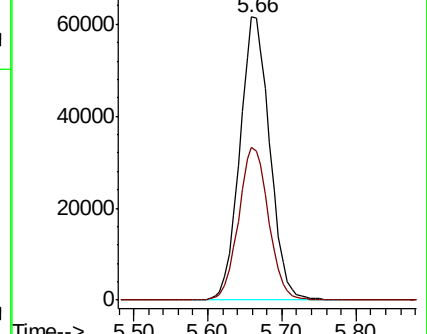
168 100

99 54.2 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: 44.569 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010037.D

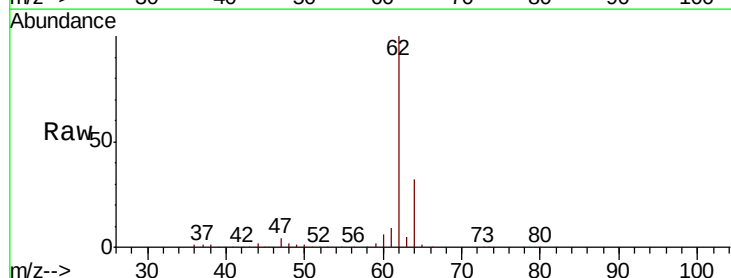
Acq: 03 Jun 2019 15:37

Tgt Ion: 62 Resp: 114727

Ion Ratio Lower Upper

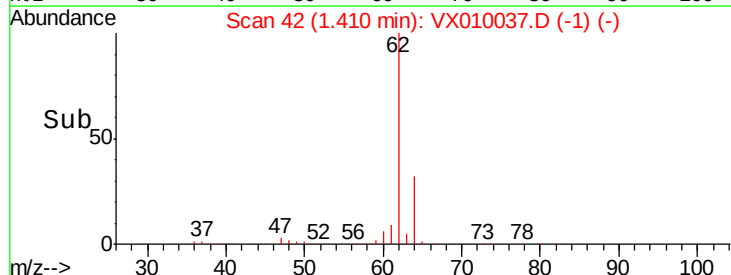
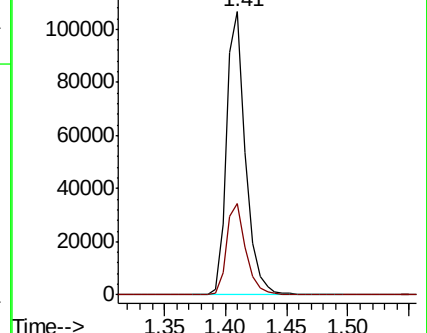
62 100

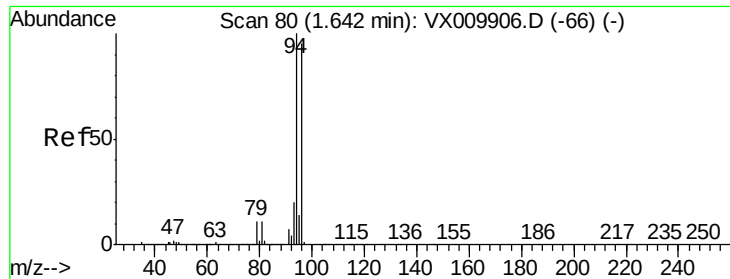
64 32.4 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.281 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

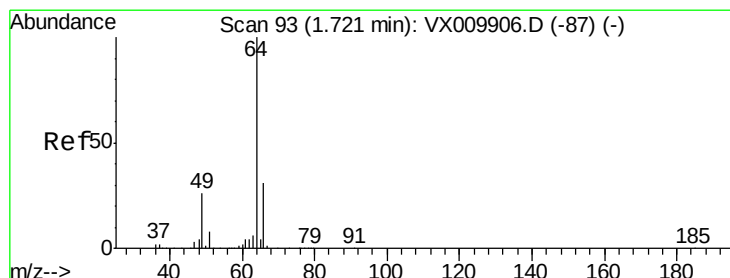
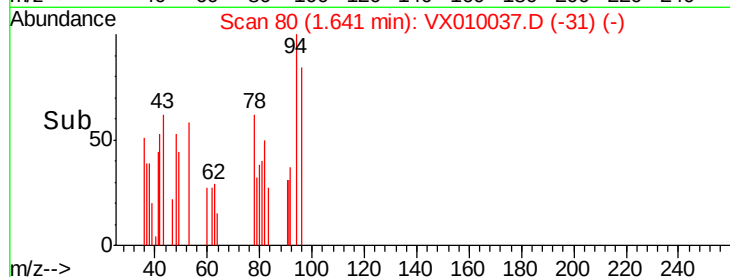
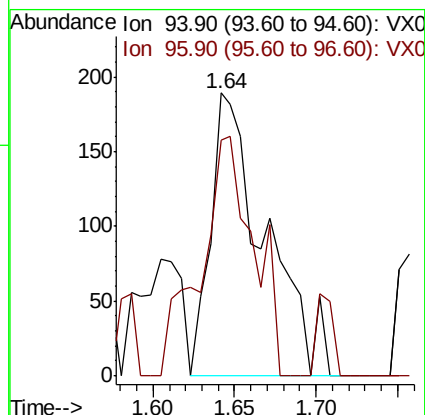
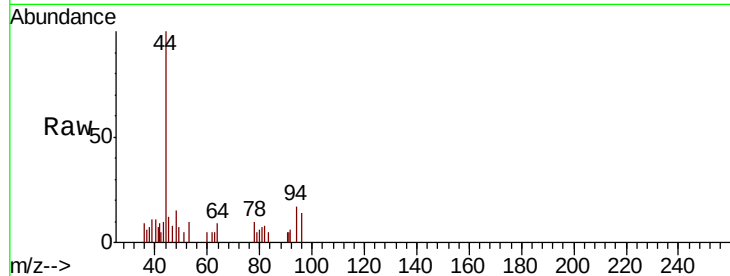
ClientSampleId :

Tot Ion: 94 Resp: 439

Ion Ratio Lower Upper

94 100

96 83.6 76.2 114.4



#6

Chloroethane

Concen: 1.051 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.04 min

Lab File: VX010037.D

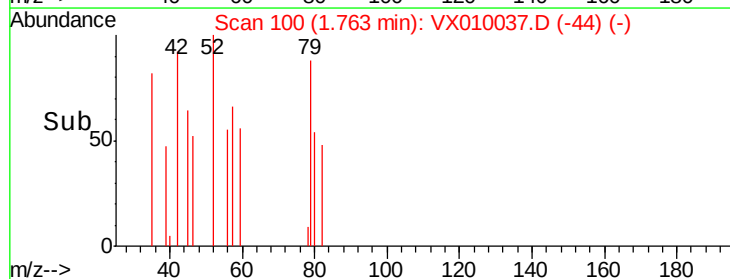
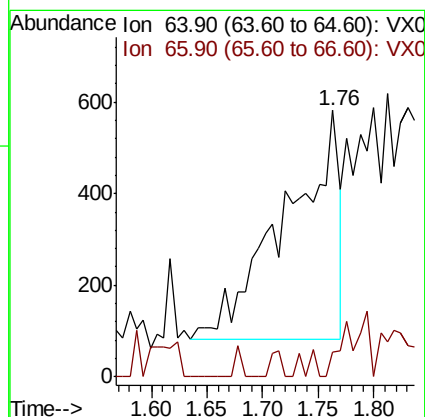
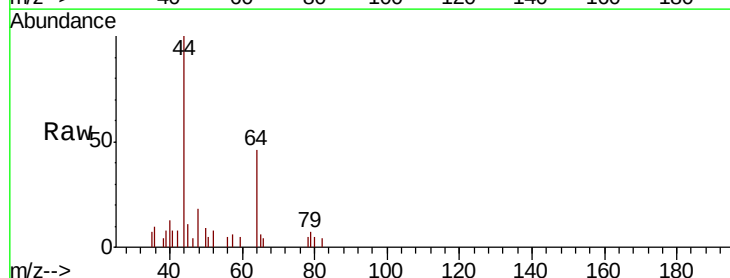
Acq: 03 Jun 2019 15:37

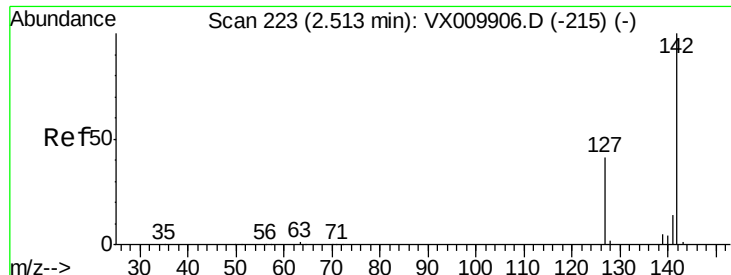
Tgt Ion: 64 Resp: 1666

Ion Ratio Lower Upper

64 100

66 10.8 25.1 37.7#

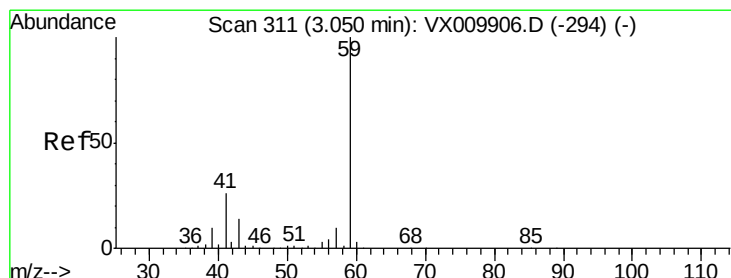
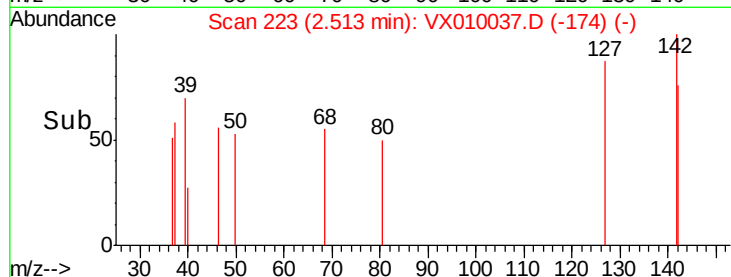
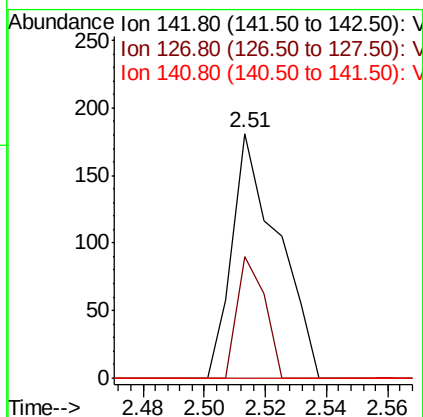
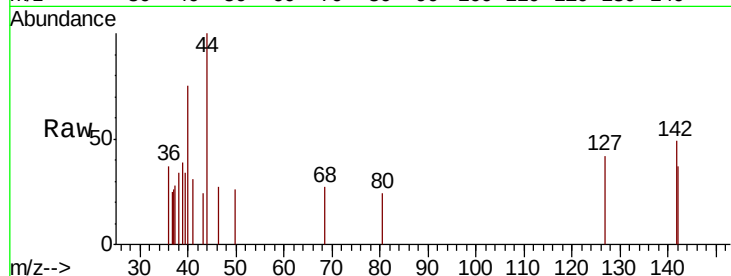




#10
Methyl Iodide
Concen: 4.737 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

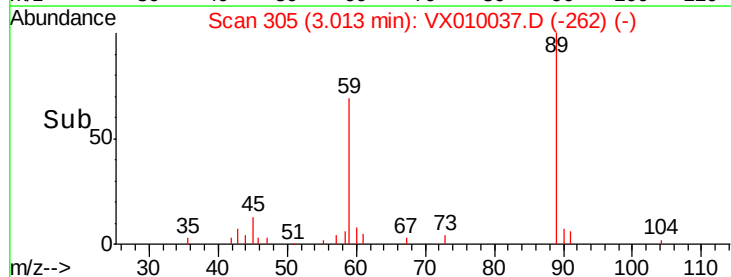
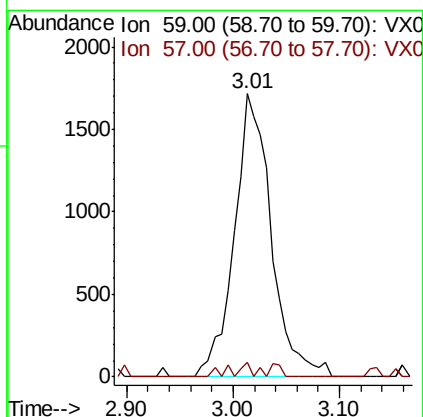
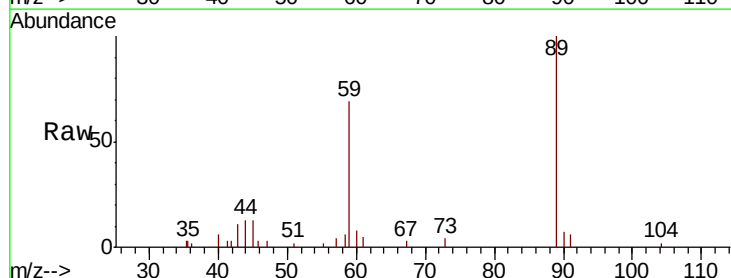
Instrument :
MSVOA_X
ClientSampled :

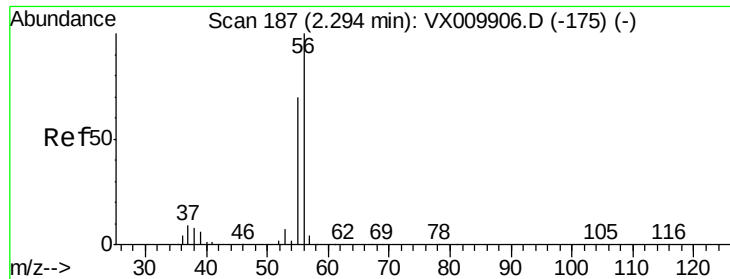
Tot Ion:142 Resp: 188
Ion Ratio Lower Upper
142 100
127 29.8 33.0 49.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 6.894 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

Tgt Ion: 59 Resp: 4166
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.2#





#13

Acrolein

Concen: 21.229 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

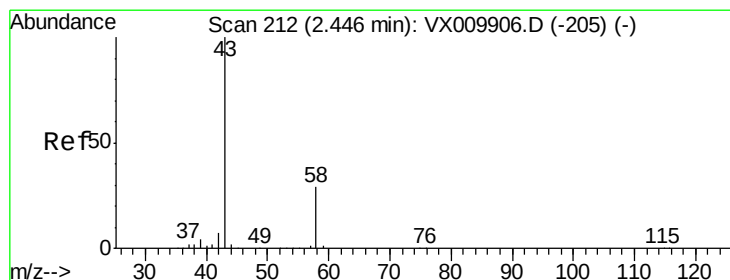
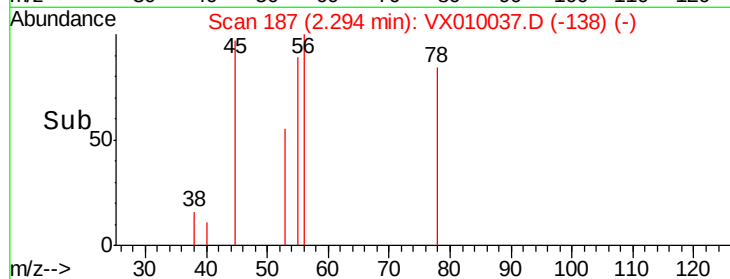
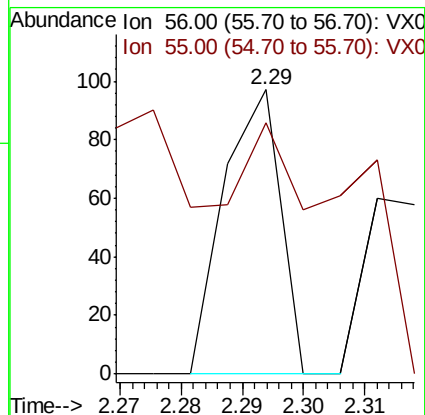
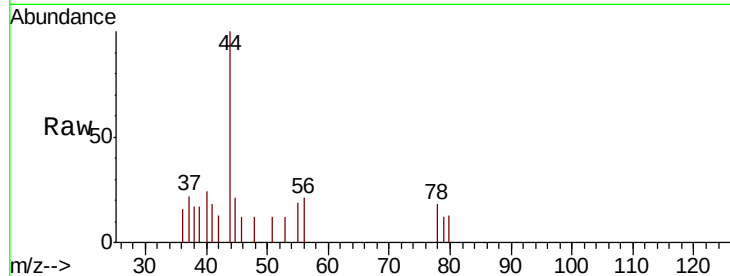
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 0.776 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010037.D

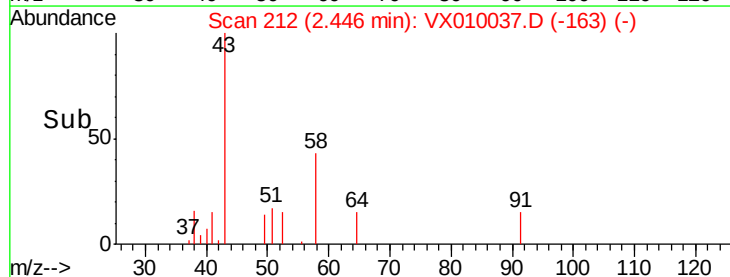
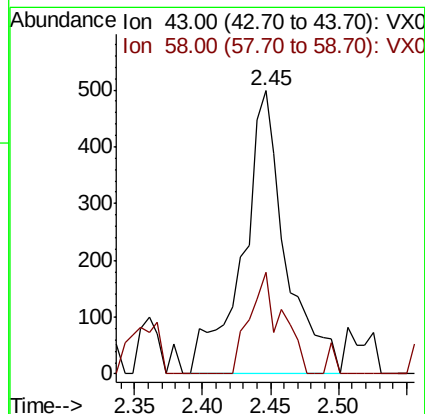
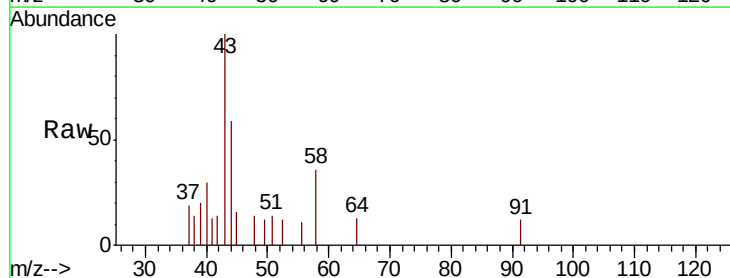
Acq: 03 Jun 2019 15:37

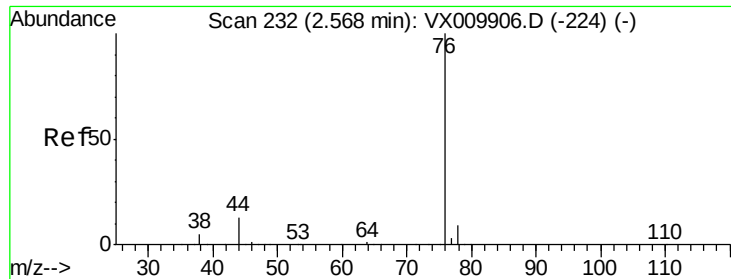
Tgt Ion: 43 Resp: 1101

Ion Ratio Lower Upper

43 100

58 35.7 23.2 34.8#





#17

Carbon Disulfide

Concen: 0.468 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

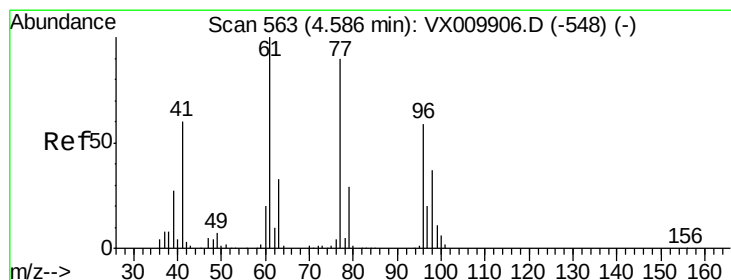
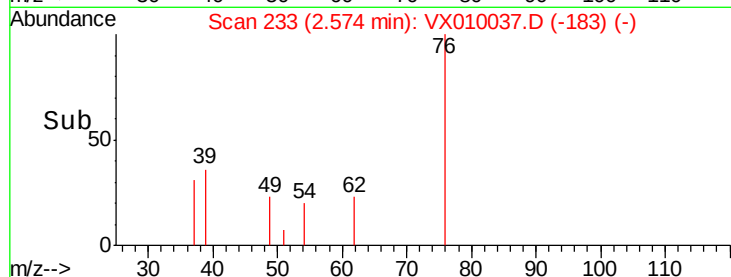
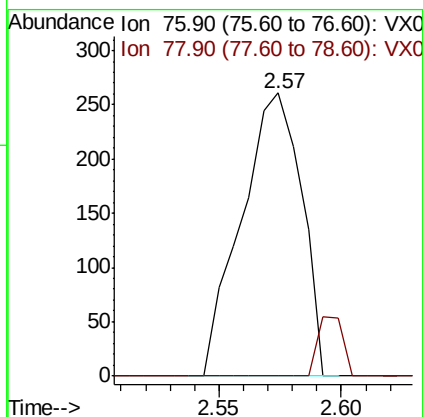
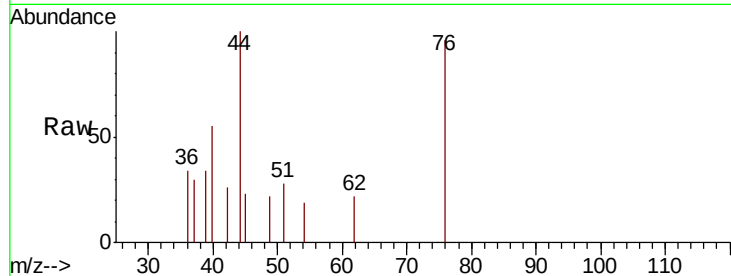
ClientSampled :

Tot Ion: 76 Resp: 446

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#26

2,2-Dichloropropane

Concen: 0.261 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.09 min

Lab File: VX010037.D

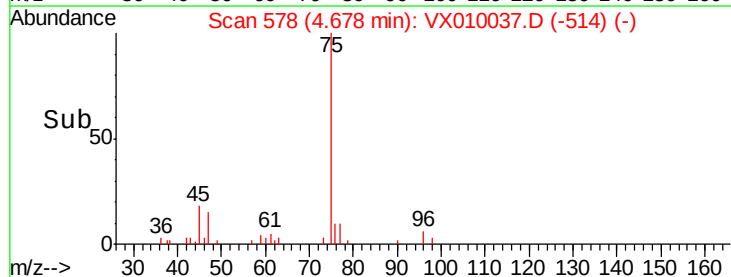
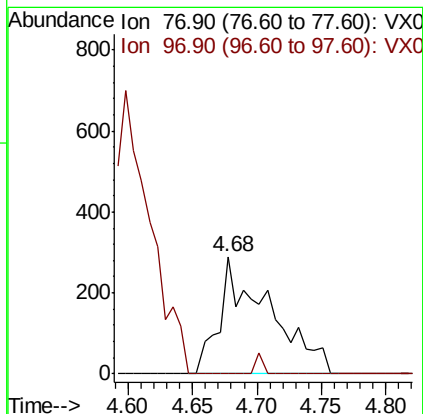
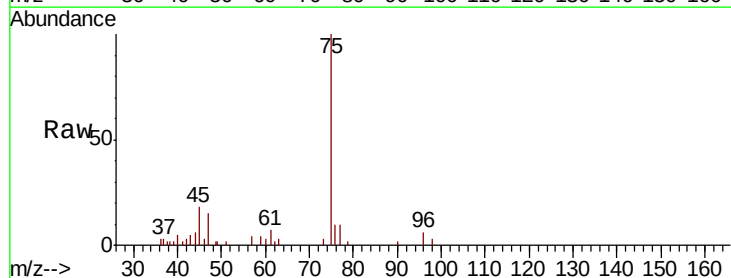
Acq: 03 Jun 2019 15:37

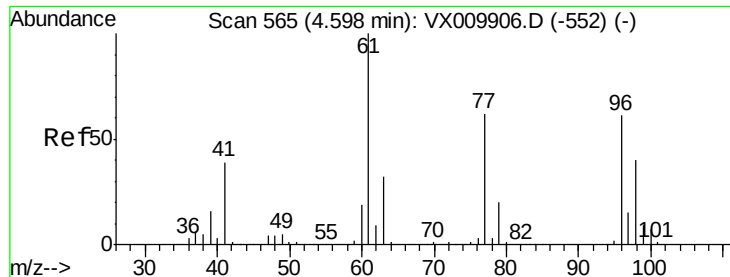
Tgt Ion: 77 Resp: 778

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



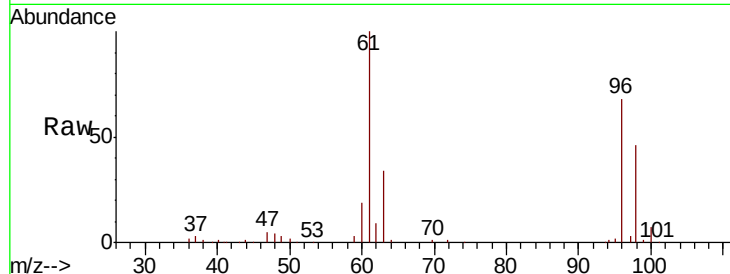


#27

cis-1,2-Dichloroethene
Concen: 18.988 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	334.0
98	64.3	0.0	131.6

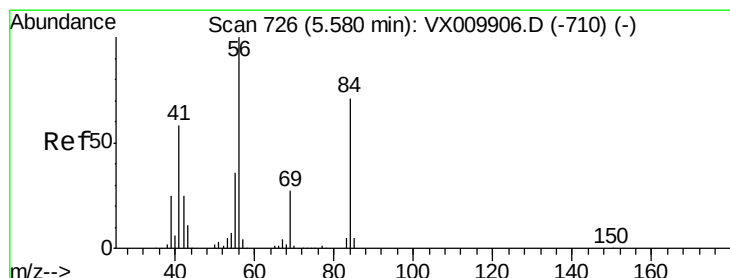
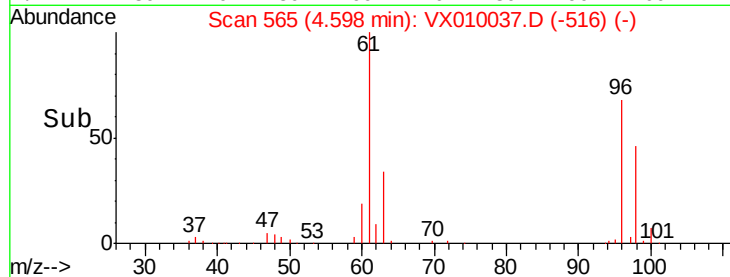
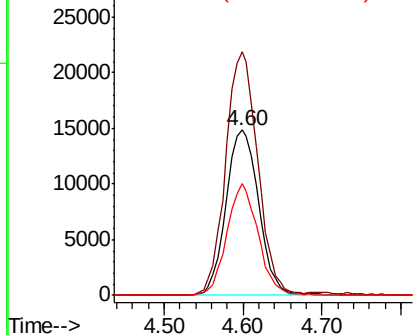


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

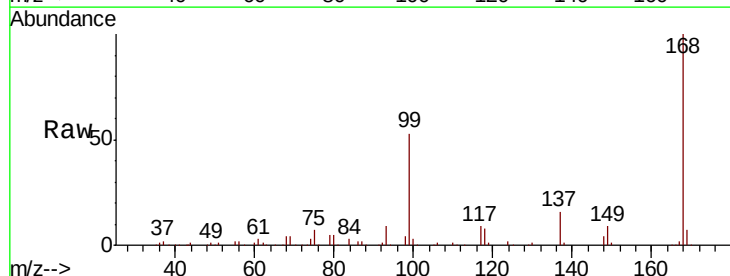
Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane
Concen: 1.063 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

Tgt Ion	Ratio	Lower	Upper
56	100		
69	159.8	21.6	32.4#
84	139.7	56.8	85.2#

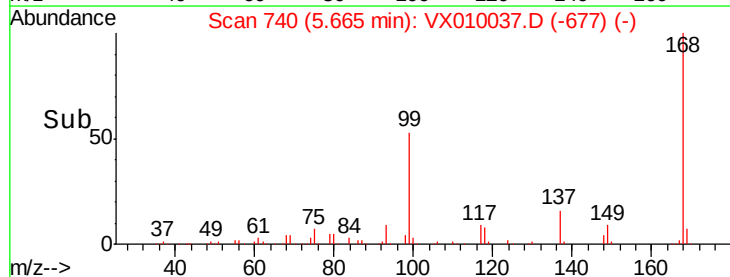
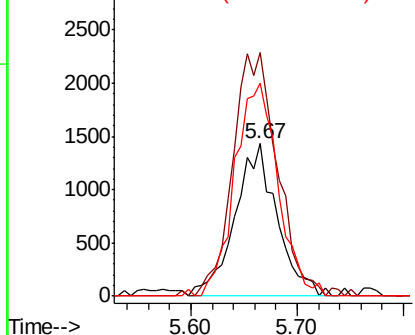


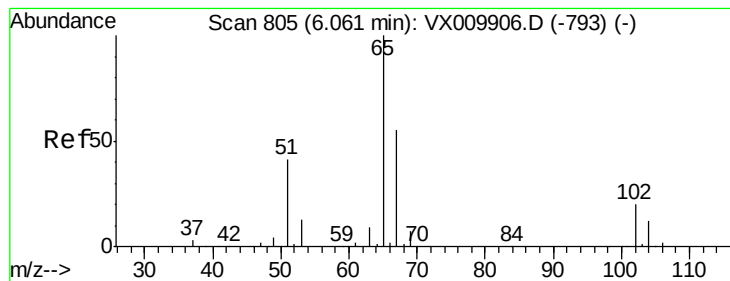
Abundance

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: 46.547 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

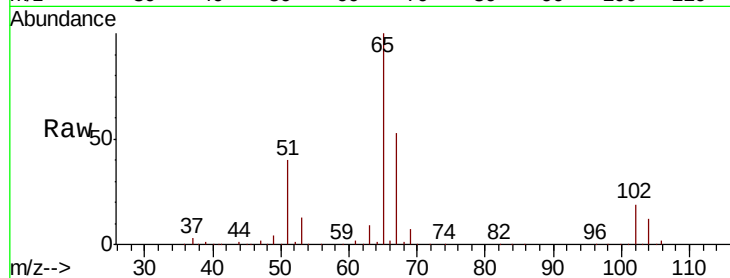
ClientSampleId :

Tot Ion: 65 Resp: 114288

Ion Ratio Lower Upper

65 100

67 53.4 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

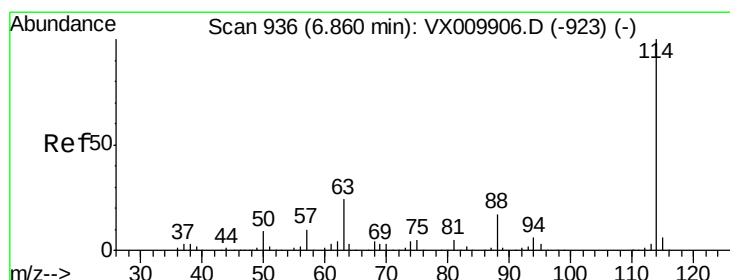
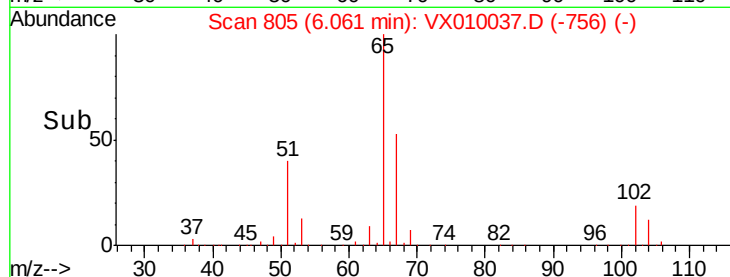
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

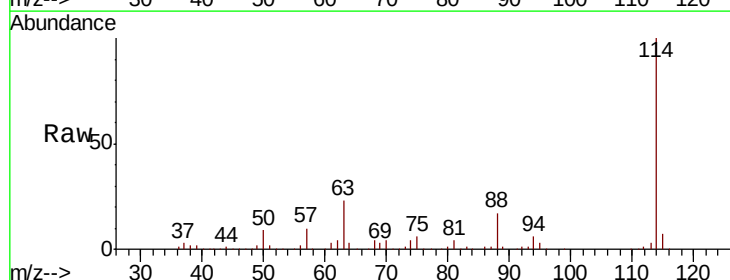
Tgt Ion: 114 Resp: 276129

Ion Ratio Lower Upper

114 100

63 22.7 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

6.86

150000

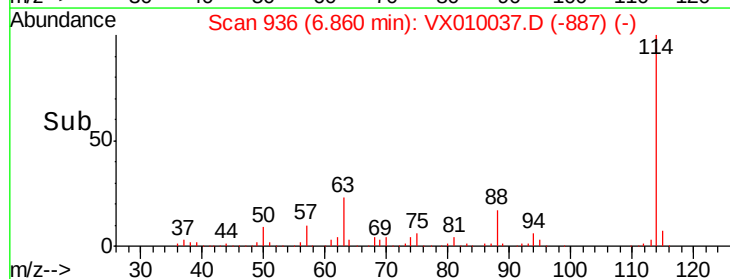
100000

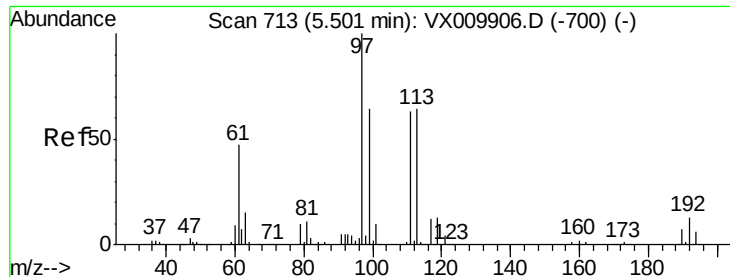
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 48.875 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

ClientSampleId :

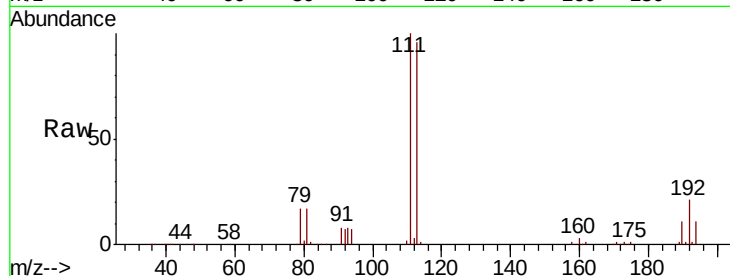
Tot Ion:113 Resp: 84849

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

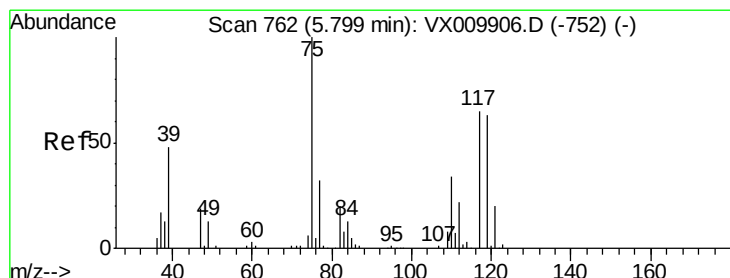
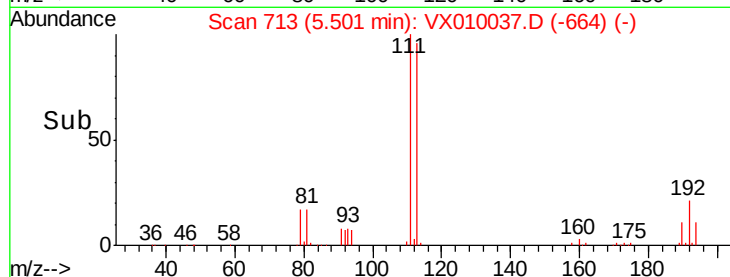
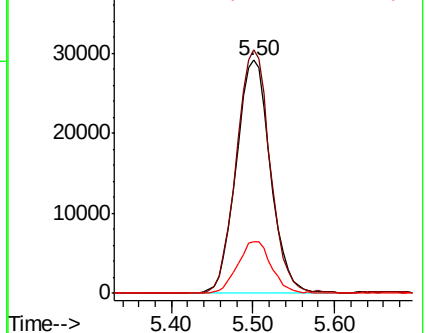
192 22.1 17.1 25.7



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: 4.805 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

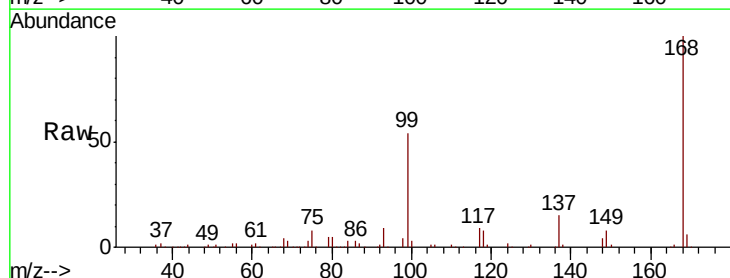
Tgt Ion: 75 Resp: 13463

Ion Ratio Lower Upper

75 100

110 9.0 16.7 50.1#

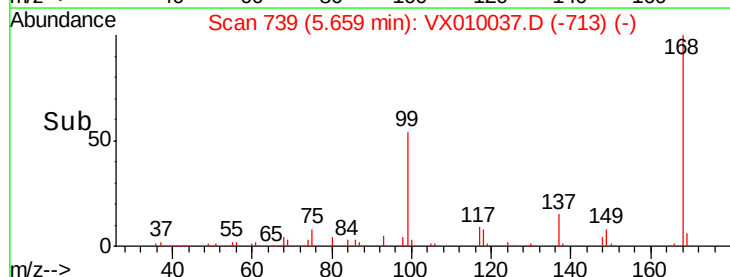
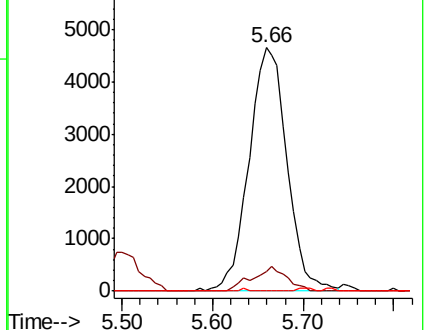
77 0.0 25.0 37.4#

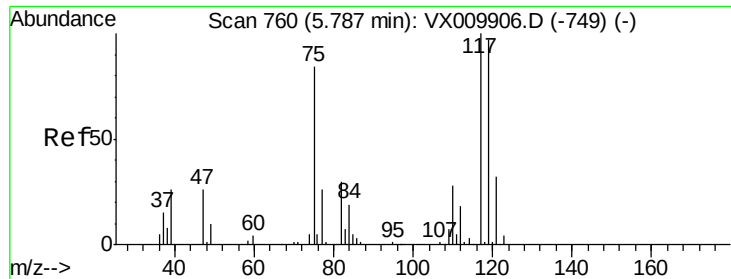


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.692 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

ClientSampleId :

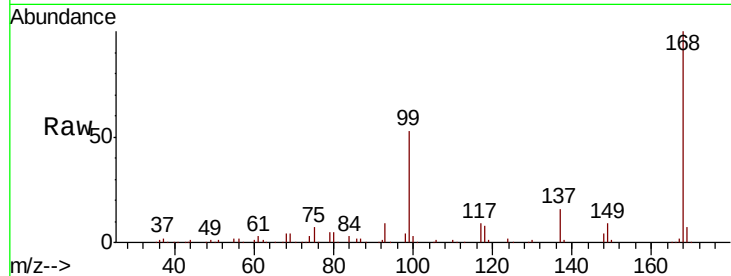
Tot Ion:117 Resp: 16201

Ion Ratio Lower Upper

117 100

119 5.7 77.3 115.9#

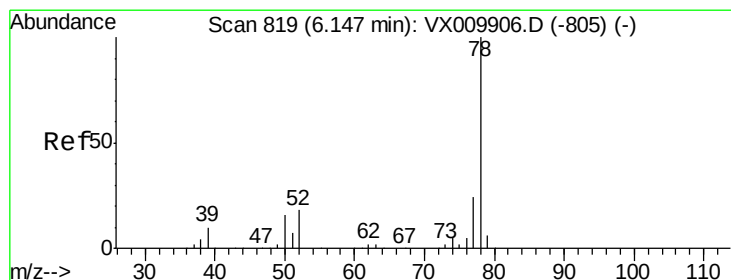
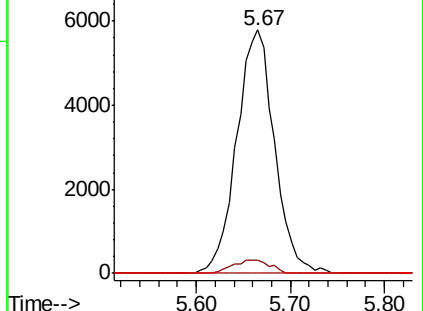
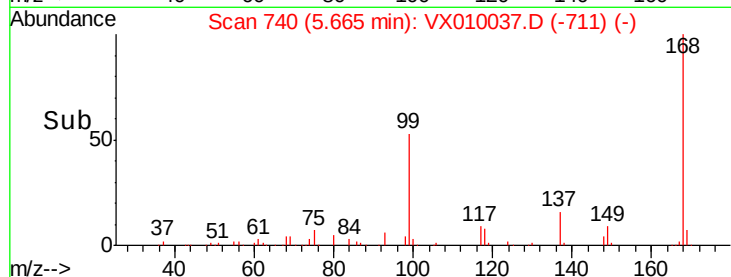
121 0.0 25.4 38.0#



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: 0.600 ug/l

RT: 6.15 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX010037.D

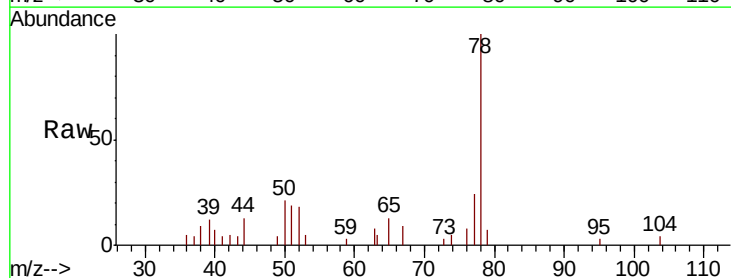
Acq: 03 Jun 2019 15:37

Tgt Ion: 78 Resp: 4989

Ion Ratio Lower Upper

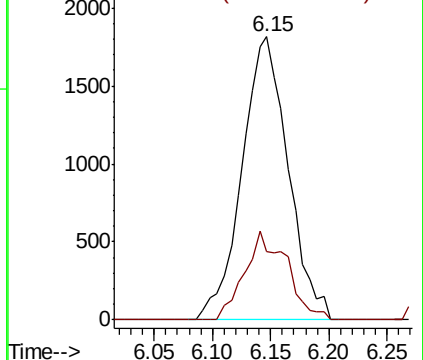
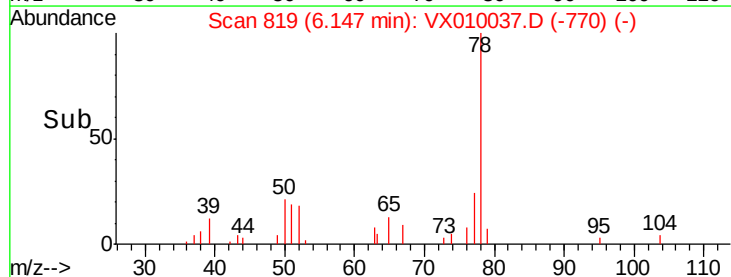
78 100

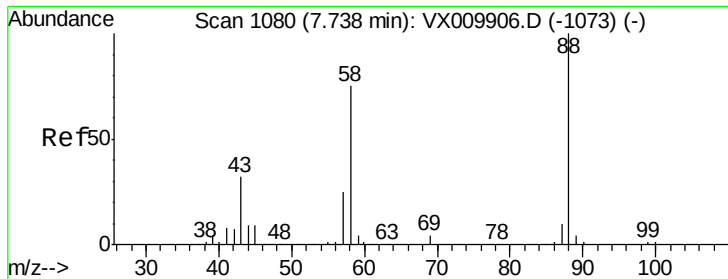
77 24.1 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

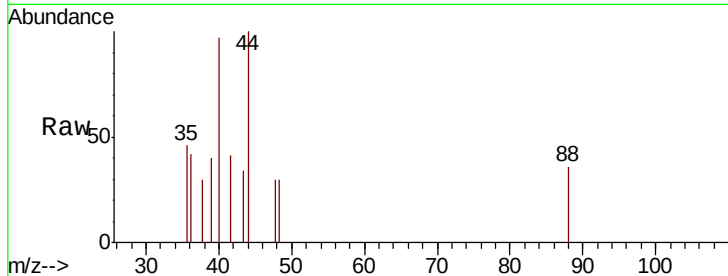




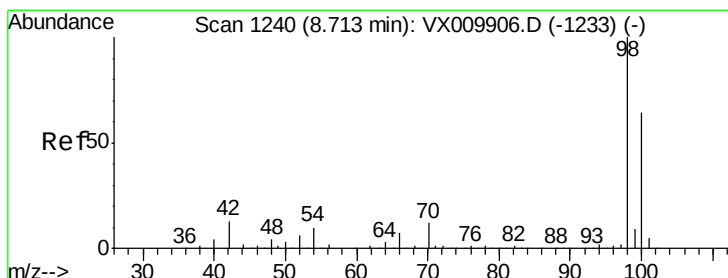
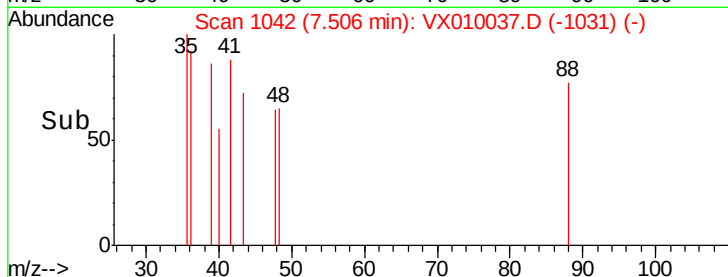
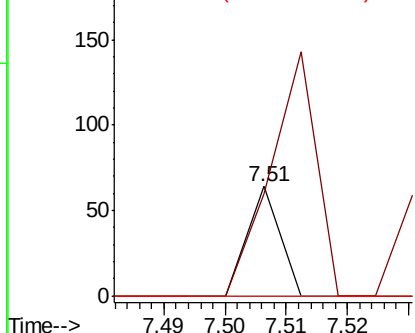
#49
 1,4-Dioxane
 Concen: 0.397 ug/l
 RT: 7.51 min Scan# 1042
 Delta R.T. -0.23 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 88 Resp: 23
 Ion Ratio Lower Upper
 88 100
 43 321.7 30.2 45.4#
 58 0.0 64.0 96.0#

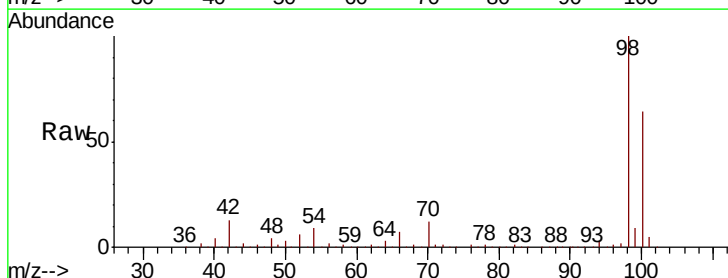


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

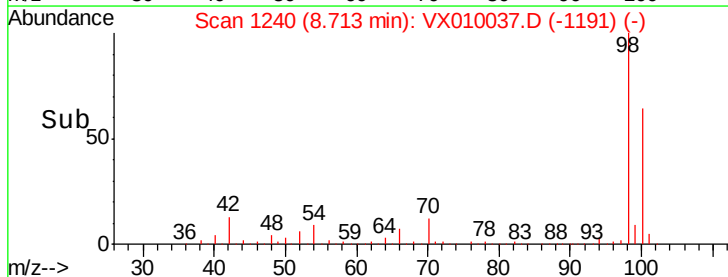
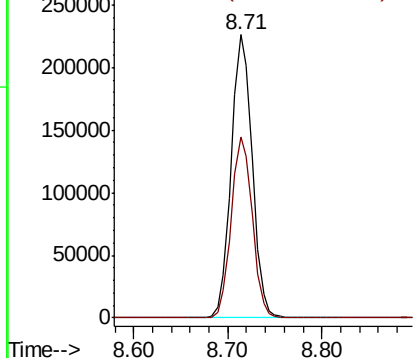


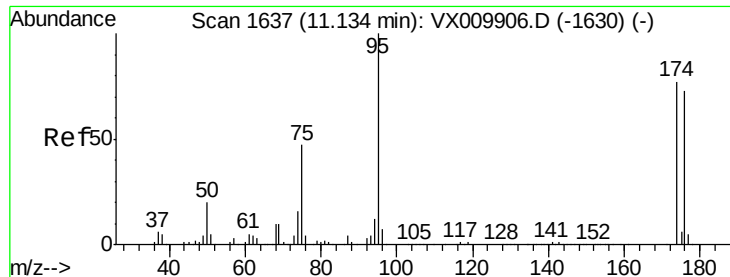
#50
 Toluene-d8
 Concen: 49.770 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

Tgt Ion: 98 Resp: 350857
 Ion Ratio Lower Upper
 98 100
 100 63.9 51.5 77.3



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





#62

4-Bromofluorobenzene

Concen: 47.276 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

Instrument :

MSVOA_X

ClientSampleId :

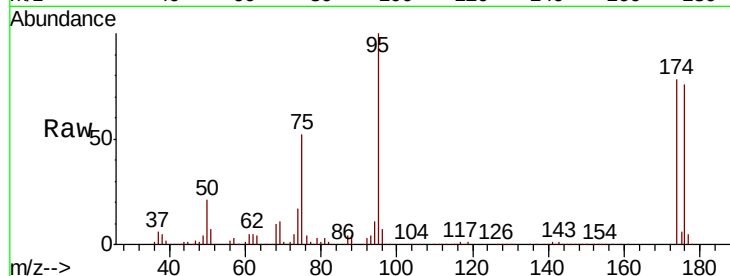
Tot Ion: 95 Resp: 119709

Ion Ratio Lower Upper

95 100

174 83.6 0.0 160.4

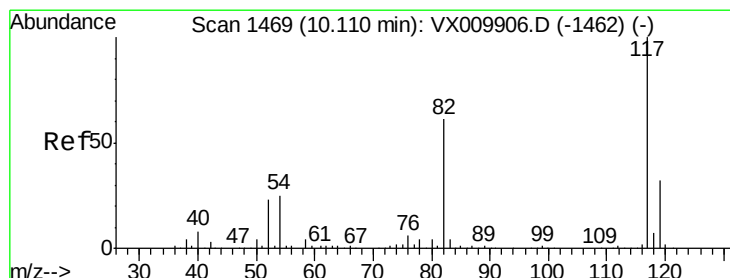
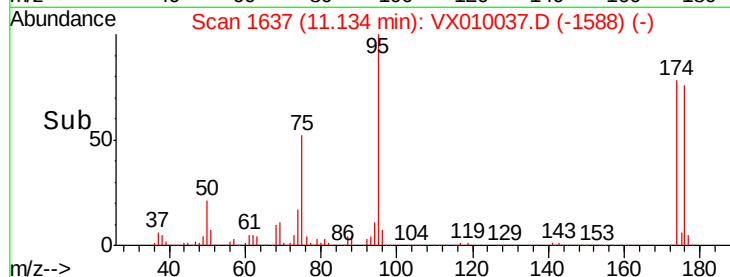
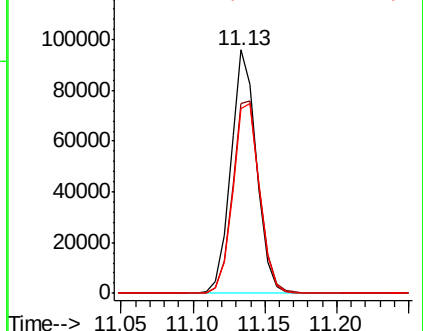
176 81.9 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010037.D

Acq: 03 Jun 2019 15:37

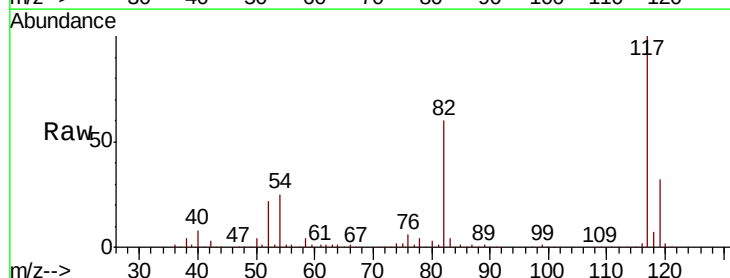
Tgt Ion: 117 Resp: 252491

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

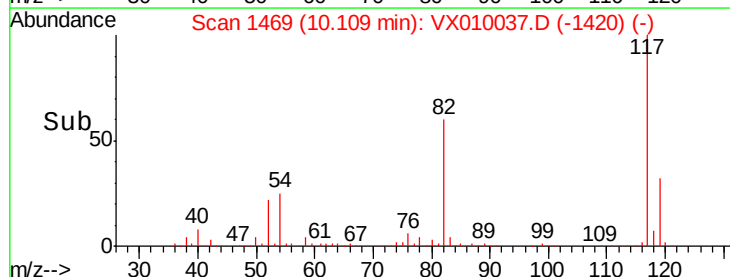
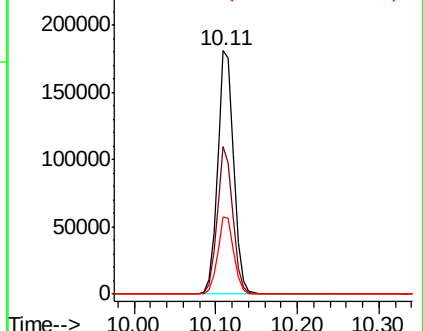
119 31.7 25.2 37.8

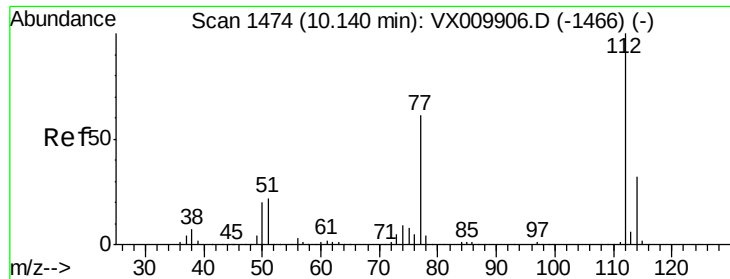


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

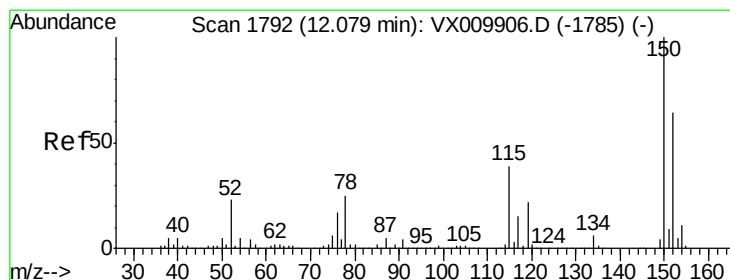
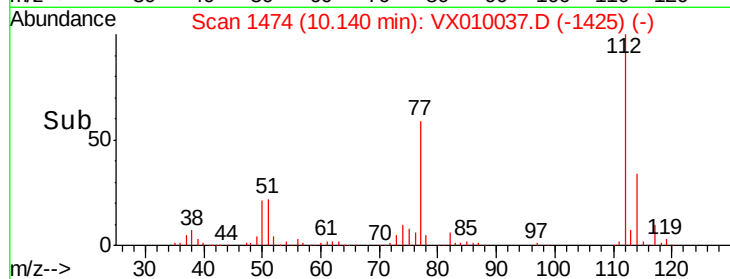
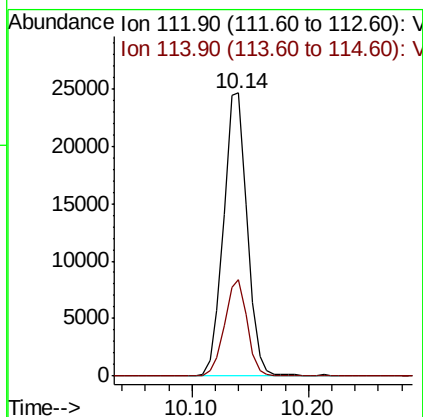
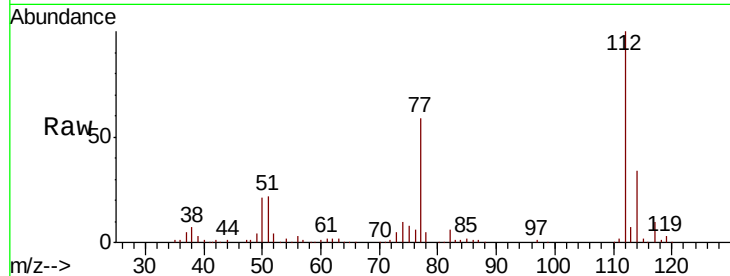




#65
Chlorobenzene
Concen: 6.551 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

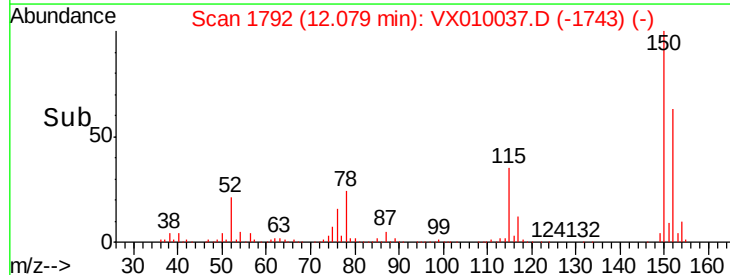
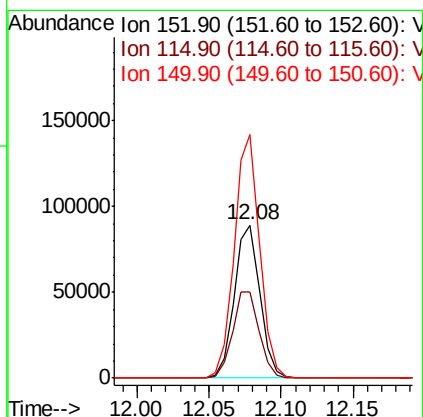
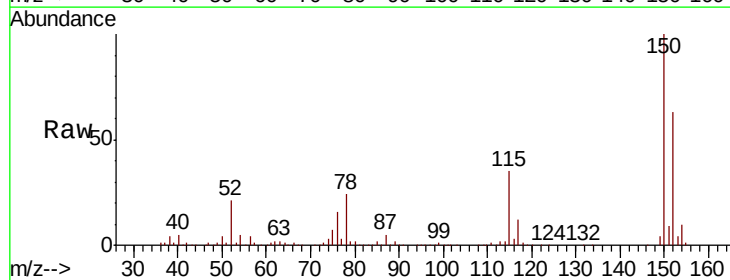
Instrument :
MSVOA_X
ClientSampled :

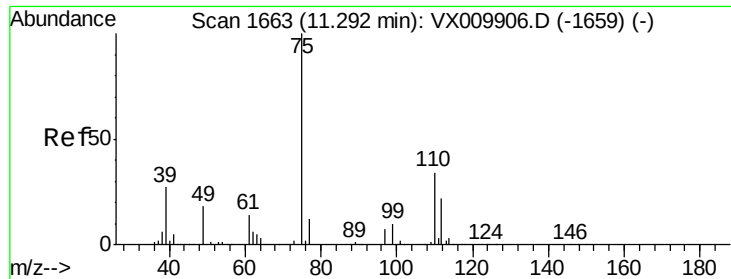
Tot Ion:112 Resp: 34628
Ion Ratio Lower Upper
112 100
114 34.0 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010037.D
Acq: 03 Jun 2019 15:37

Tgt Ion:152 Resp: 110970
Ion Ratio Lower Upper
152 100
115 58.5 41.4 124.2
150 157.4 0.0 345.2

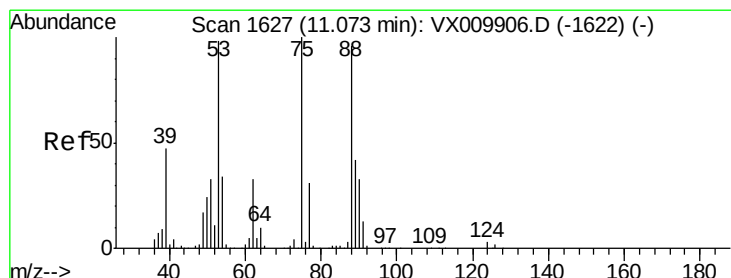
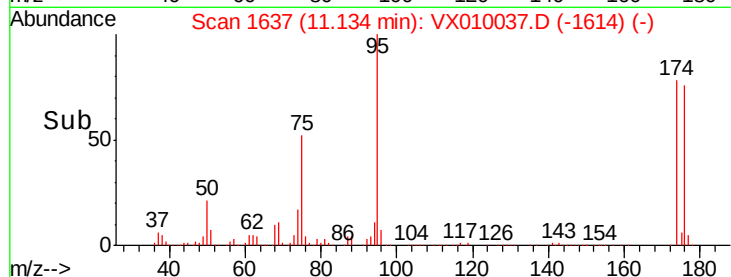
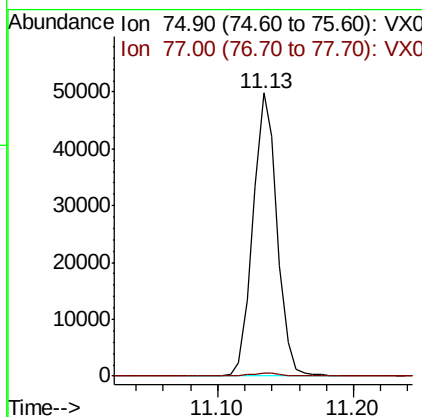
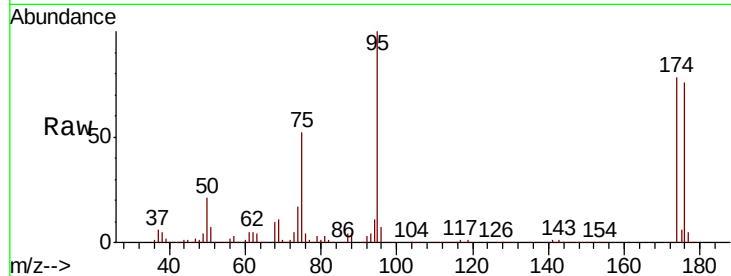




#76
 1,2,3-Trichloropropane
 Concen: 23.362 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

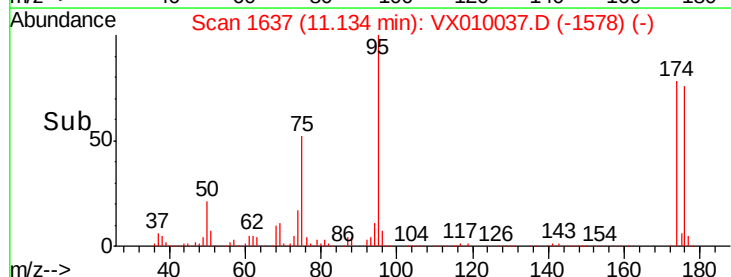
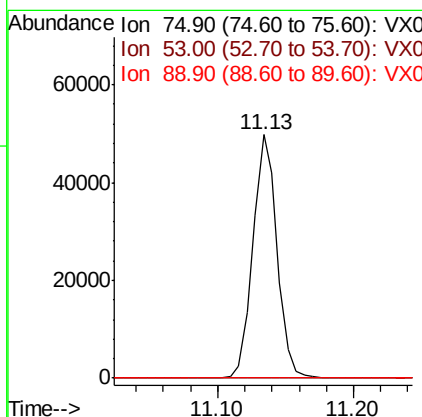
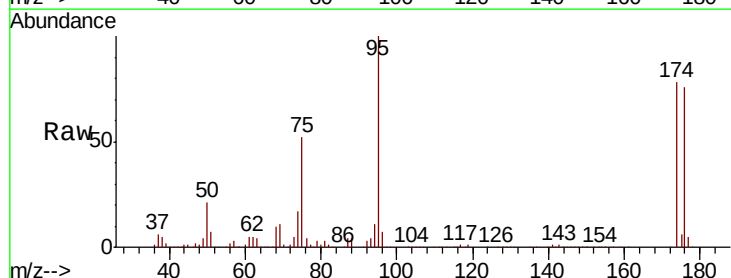
Instrument :
 MSVOA_X
 ClientSampled :

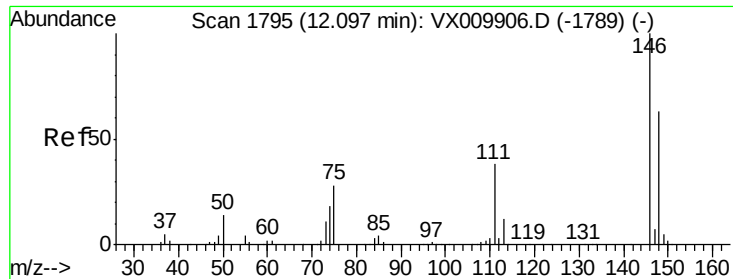
Tot Ion: 75 Resp: 61994
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.801 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

Tgt Ion: 75 Resp: 61994
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#

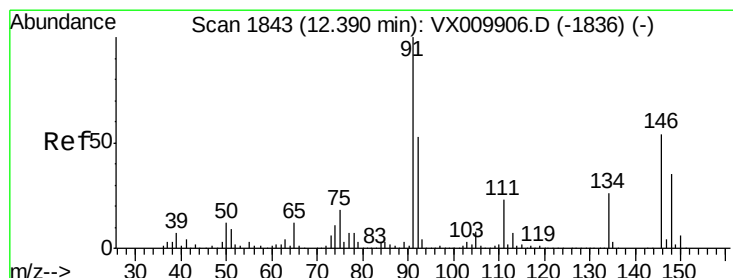
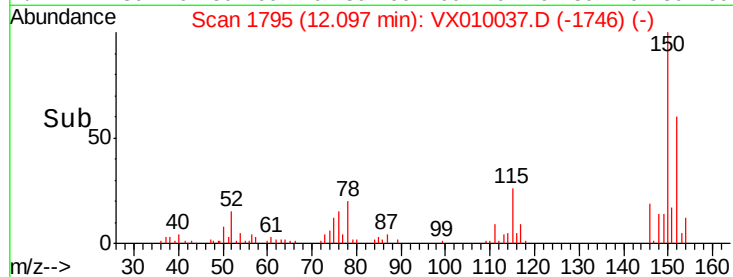
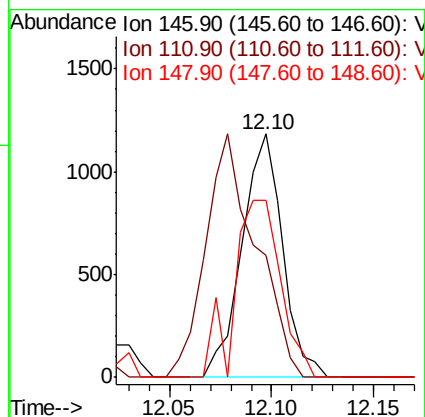
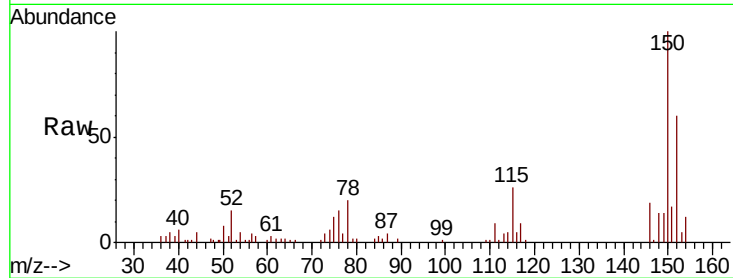




#88
 1,4-Dichlorobenzene
 Concen: 0.432 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:146 Resp: 1635
 Ion Ratio Lower Upper
 146 100
 111 123.5 20.0 59.9#
 148 83.1 32.3 96.9



#91
 1,2-Dichlorobenzene
 Concen: 0.395 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010037.D
 Acq: 03 Jun 2019 15:37

Tgt Ion:146 Resp: 1445
 Ion Ratio Lower Upper
 146 100
 111 42.1 21.1 63.1
 148 58.0 32.3 96.8

