

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072019\
 Data File : VX010992.D
 Acq On : 19 Jul 2019 11:01
 Operator : JC/SP
 Sample : VX0720WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0720WBL01

Quant Time: Jul 20 00:58:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	330377	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	299211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	131817	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	114179	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
35) Dibromofluoromethane	5.49	113	103491	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
50) Toluene-d8	8.71	98	394077	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.13	95	133902	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

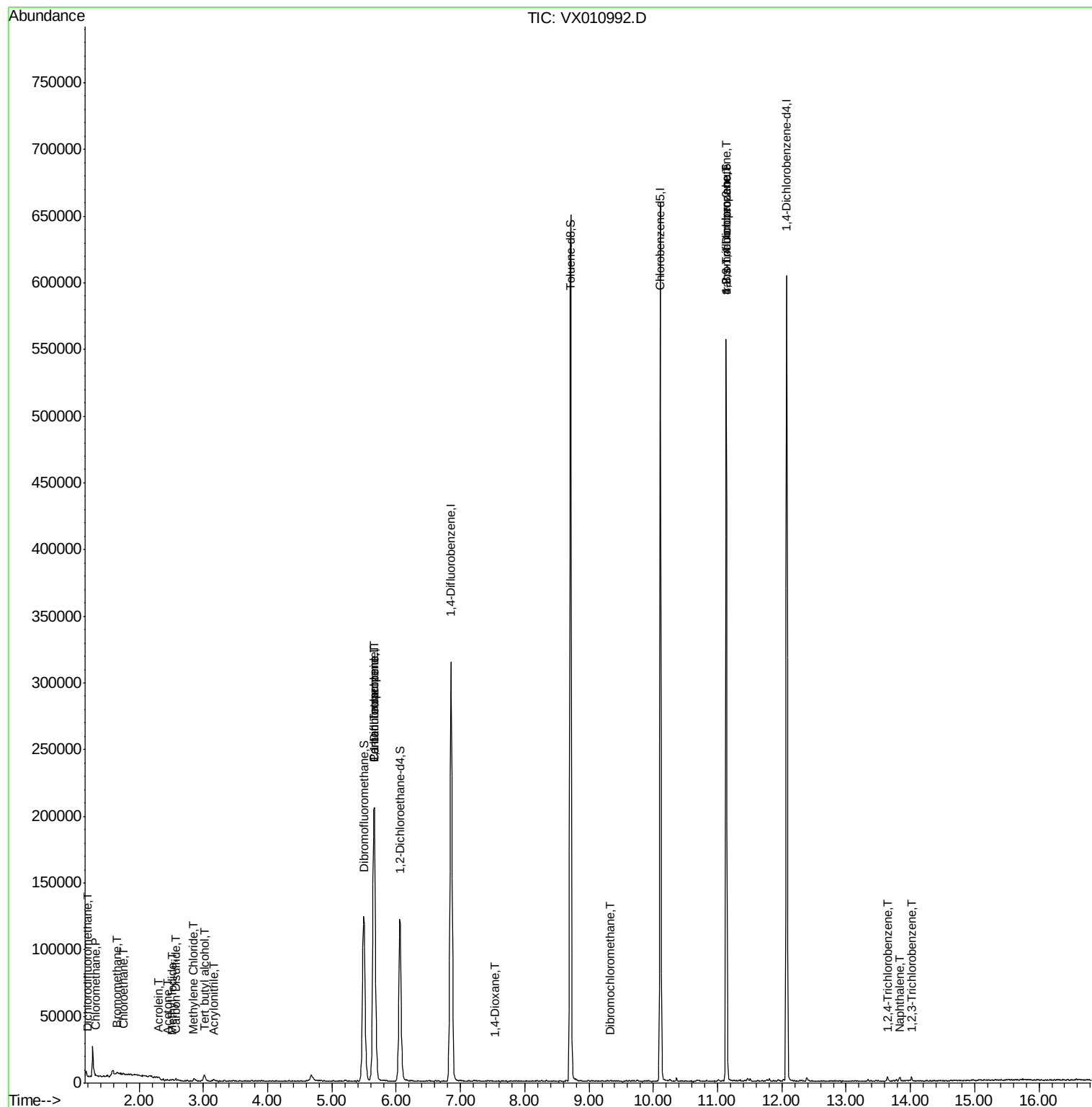
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	71	0.578	ug/l #	43
3) Chloromethane	1.32	50	716	0.370	ug/l #	82
5) Bromomethane	1.66	94	833	0.749	ug/l	96
6) Chloroethane	1.75	64	324	0.258	ug/l #	41
10) Methyl Iodide	2.52	142	947	0.378	ug/l	96
11) Tert butyl alcohol	3.01	59	2609	5.005	ug/l #	89
13) Acrolein	2.29	56	315	1.046	ug/l #	19
15) Acrylonitrile	3.15	53	312	0.296	ug/l #	79
16) Acetone	2.43	43	792	0.783	ug/l	89
17) Carbon Disulfide	2.57	76	1981	0.412	ug/l #	84
20) Methylene Chloride	2.85	84	666	0.311	ug/l #	90
36) 1,1-Dichloropropene	5.65	75	14433	5.318	ug/l #	47
38) Carbon Tetrachloride	5.66	117	19558	6.916	ug/l #	16
49) 1,4-Dioxane	7.55	88	23	0.369	ug/l #	28
60) Dibromochloromethane	9.33	129	131	2.576	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67208	28.254	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67208	69.865	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	665	0.232	ug/l	83
95) Naphthalene	13.83	128	2064	0.244	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	650	0.228	ug/l	83

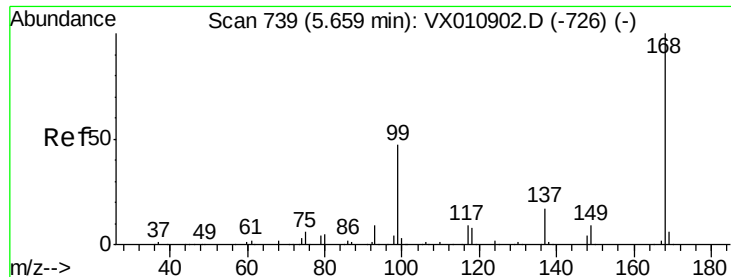
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

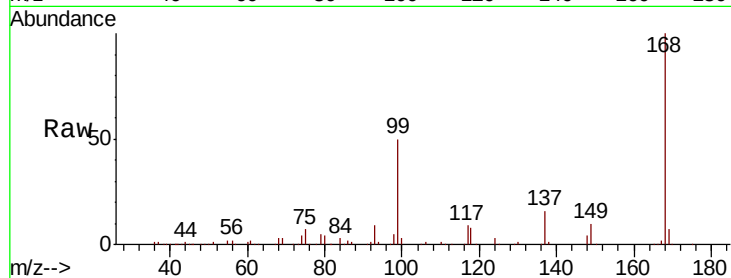
VX0720WBL01

Tot Ion:168 Resp: 210383

Ion Ratio Lower Upper

168 100

99 50.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

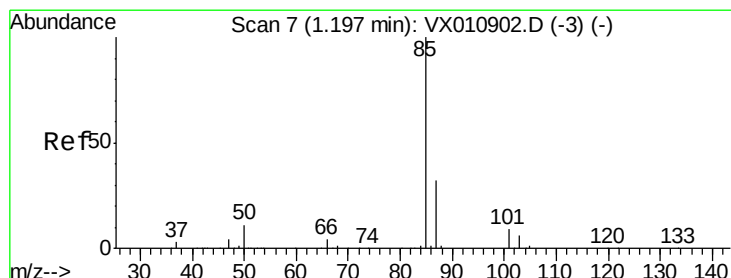
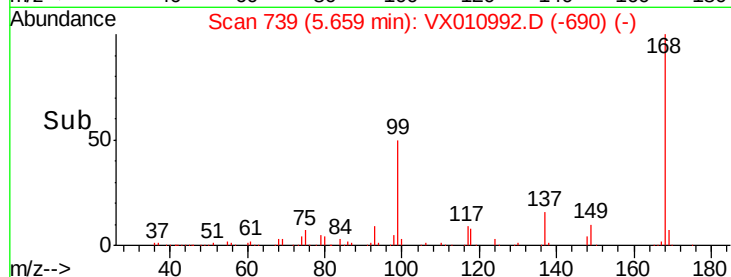
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.578 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010992.D

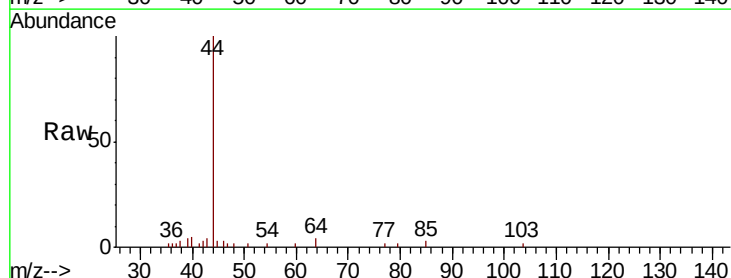
Acq: 19 Jul 2019 11:01

Tgt Ion: 85 Resp: 71

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

120

100

80

60

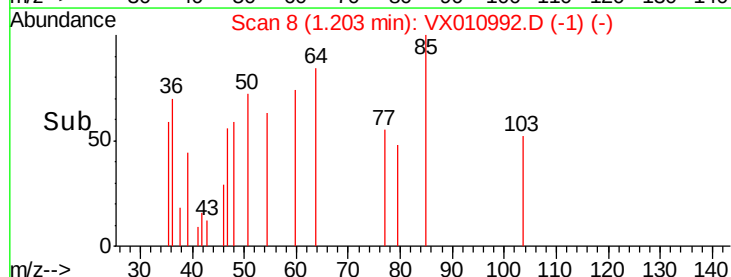
40

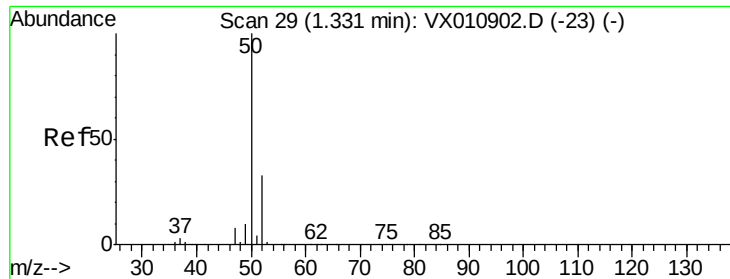
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: 0.370 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampled :

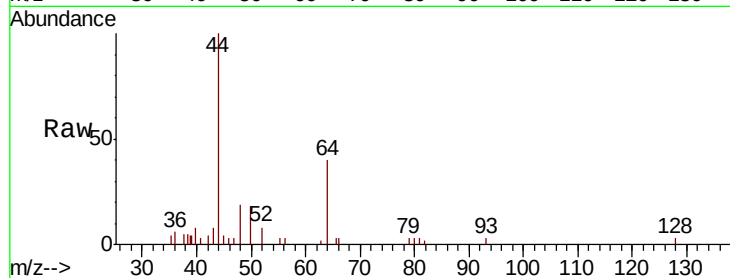
VX0720WBL01

Tot Ion: 50 Resp: 716

Ion Ratio Lower Upper

50 100

52 43.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

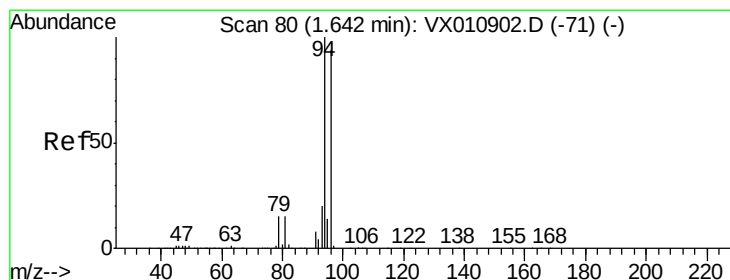
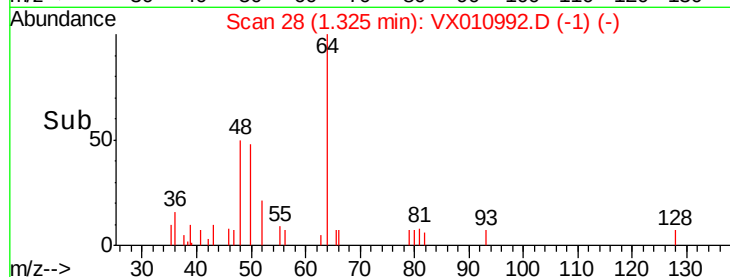
300

200

100

0

Time-->



#5

Bromomethane

Concen: 0.749 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010992.D

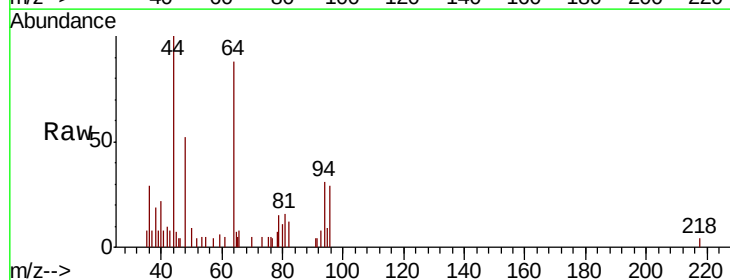
Acq: 19 Jul 2019 11:01

Tgt Ion: 94 Resp: 833

Ion Ratio Lower Upper

94 100

96 90.8 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

400

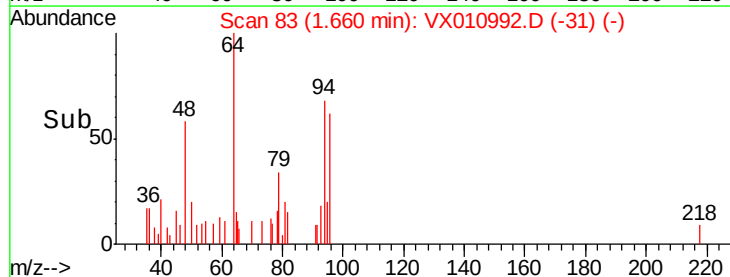
300

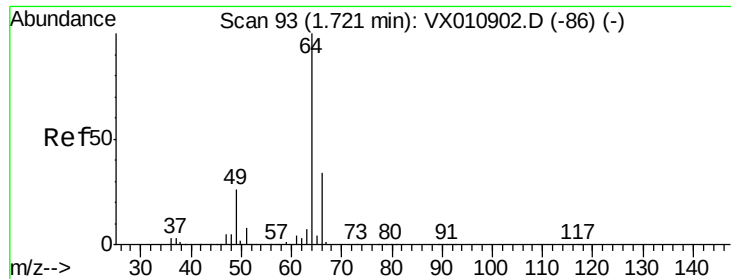
200

100

0

Time-->





#6

Chloroethane

Concen: 0.258 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

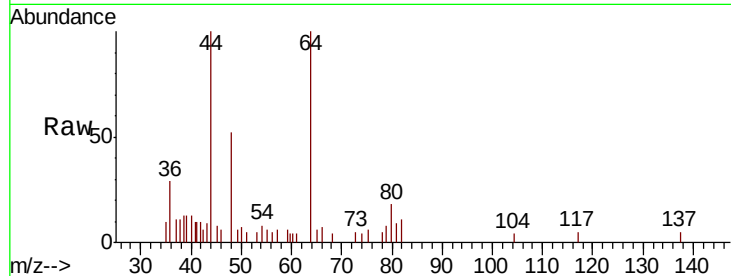
VX0720WBL01

Tot Ion: 64 Resp: 324

Ion Ratio Lower Upper

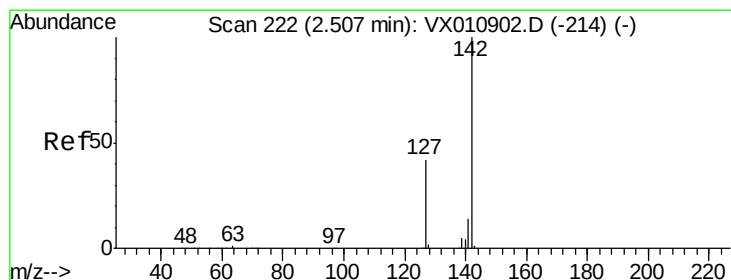
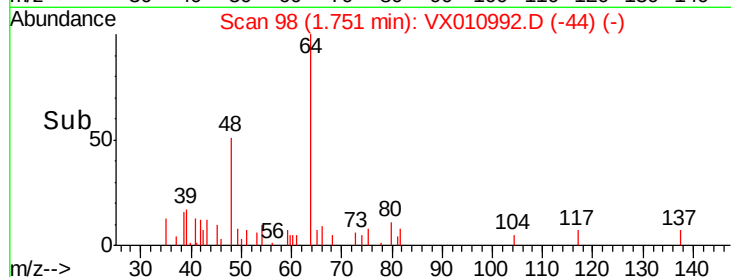
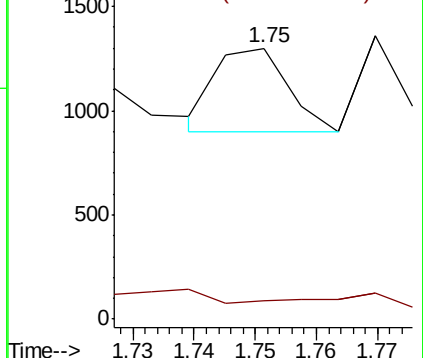
64 100

66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.378 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

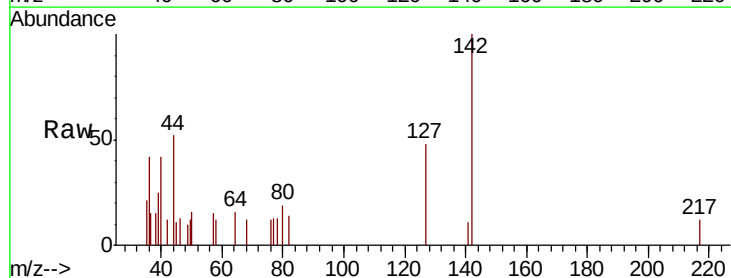
Tgt Ion: 142 Resp: 947

Ion Ratio Lower Upper

142 100

127 45.5 34.2 51.4

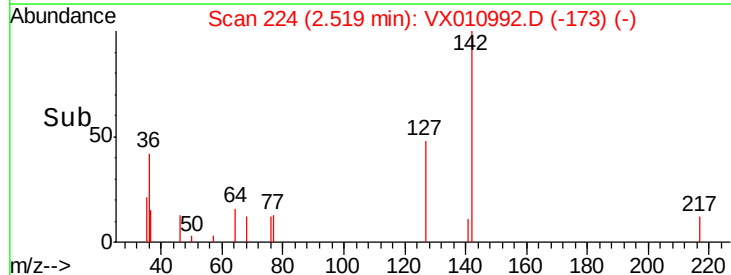
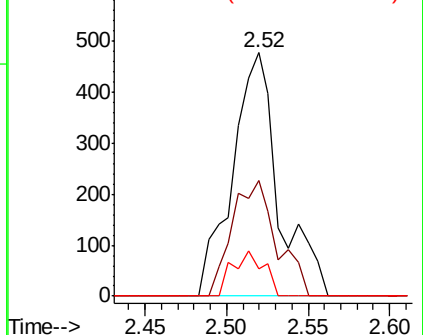
141 12.7 11.7 17.5

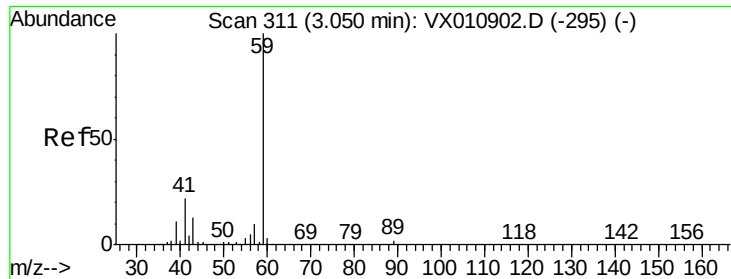


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

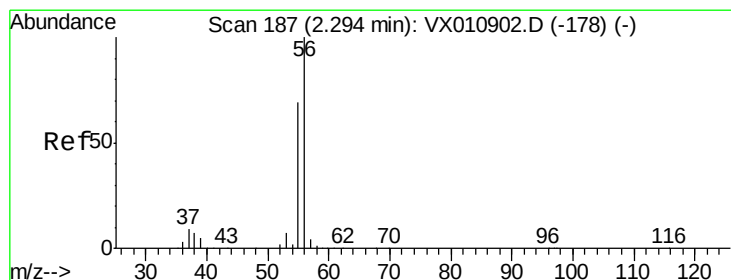
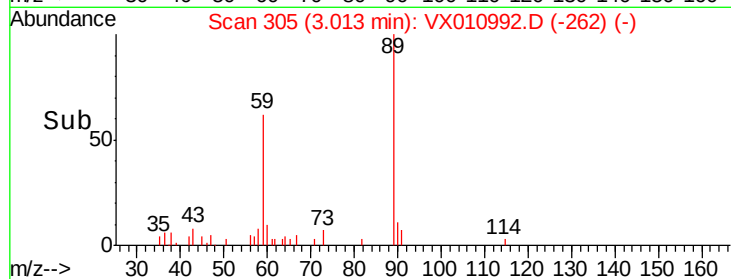
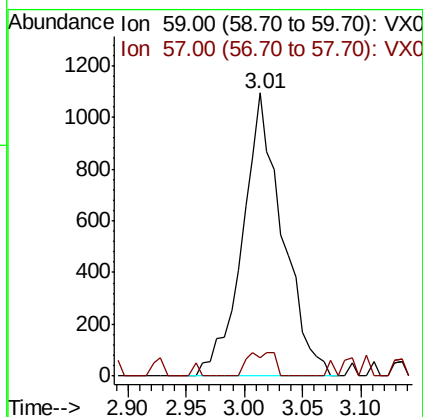
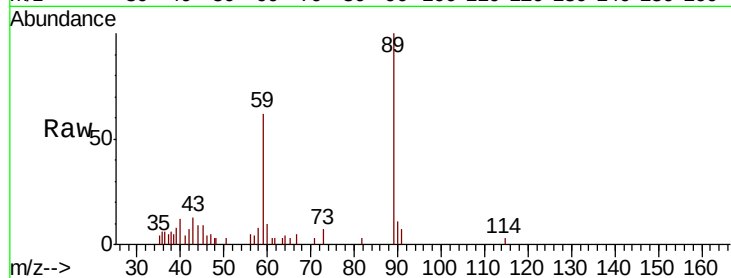




#11
Tert butyl alcohol
Concen: 5.005 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

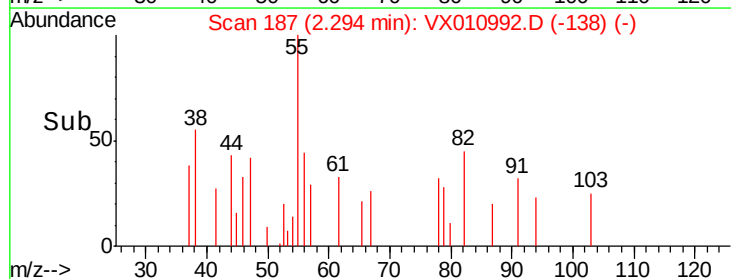
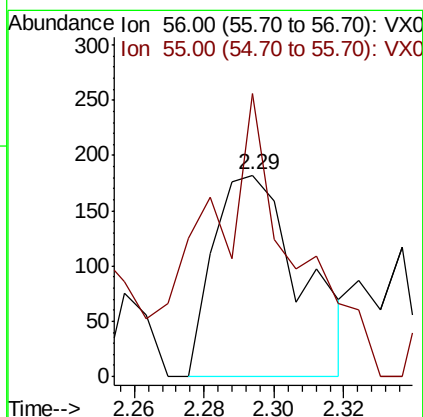
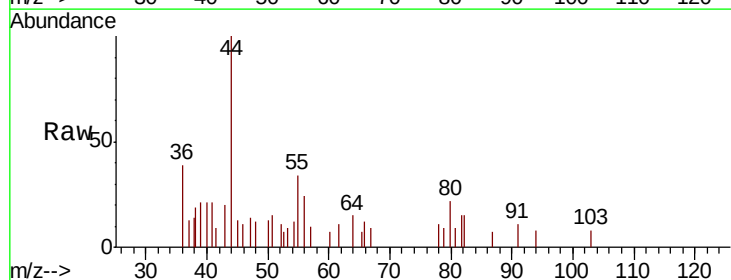
Instrument :
MSVOA_X
ClientSampleId :
VX0720WBL01

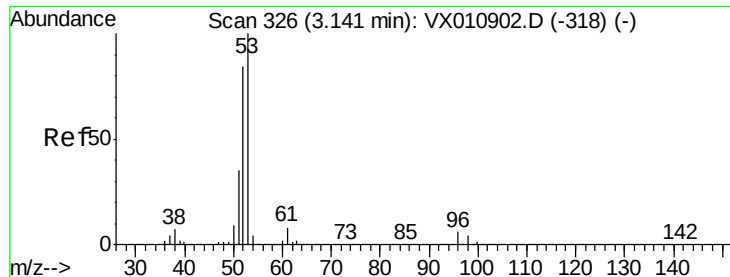
Tot Ion: 59 Resp: 2609
Ion Ratio Lower Upper
59 100
57 5.8 7.9 11.9#



#13
Acrolein
Concen: 1.046 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 136.2 55.9 83.9#





#15

Acrylonitrile

Concen: 0.296 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampled :

VX0720WBL01

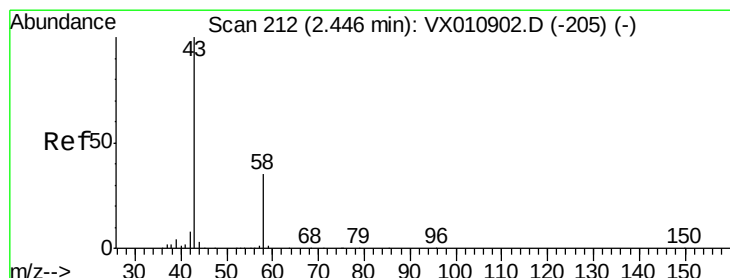
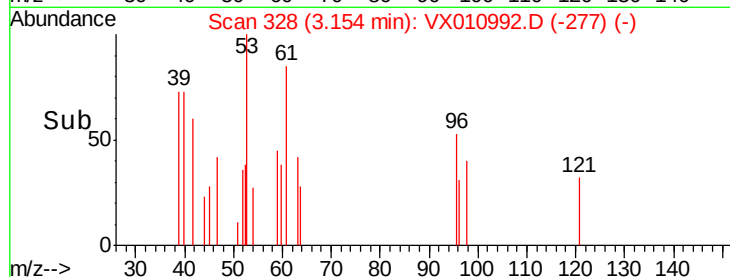
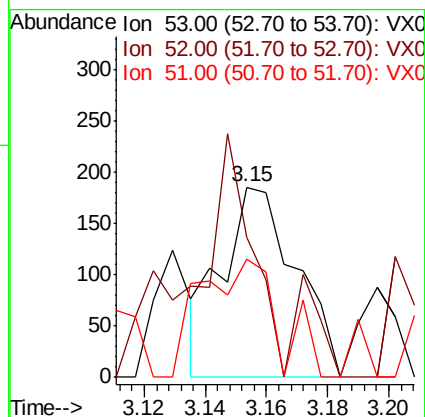
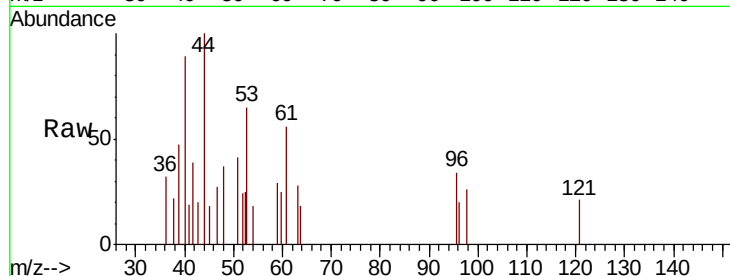
Tot Ion: 53 Resp: 312

Ion Ratio Lower Upper

53 100

52 76.0 66.5 99.7

51 65.7 28.2 42.4#



#16

Acetone

Concen: 0.783 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX010992.D

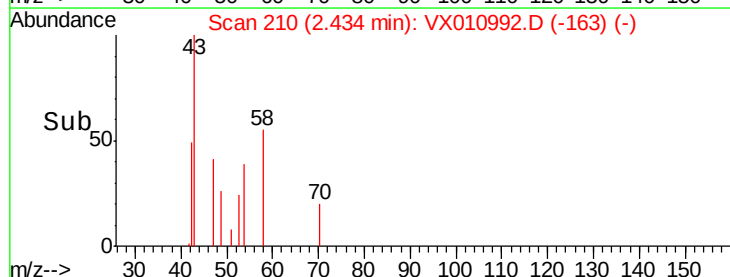
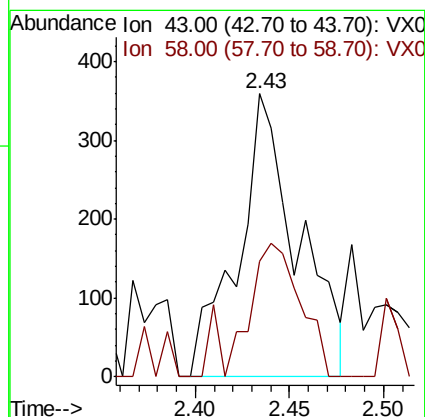
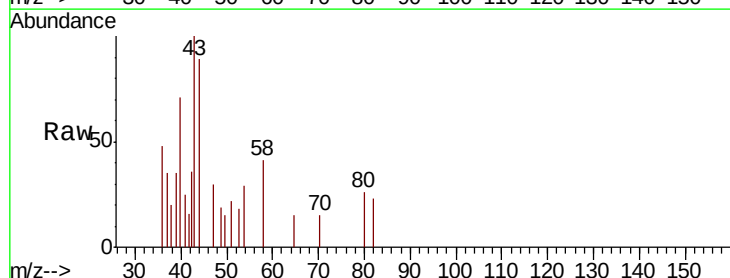
Acq: 19 Jul 2019 11:01

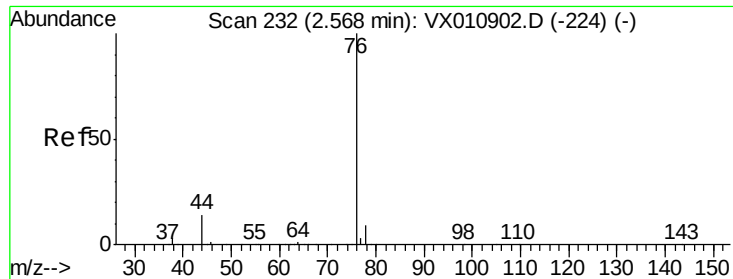
Tgt Ion: 43 Resp: 792

Ion Ratio Lower Upper

43 100

58 40.7 27.7 41.5





#17

Carbon Disulfide

Concen: 0.412 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

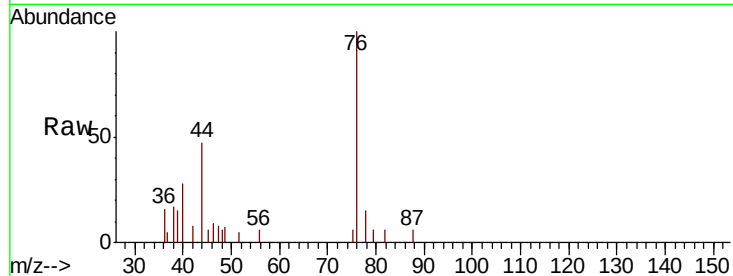
VX0720WBL01

Tot Ion: 76 Resp: 1981

Ion Ratio Lower Upper

76 100

78 15.1 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

600

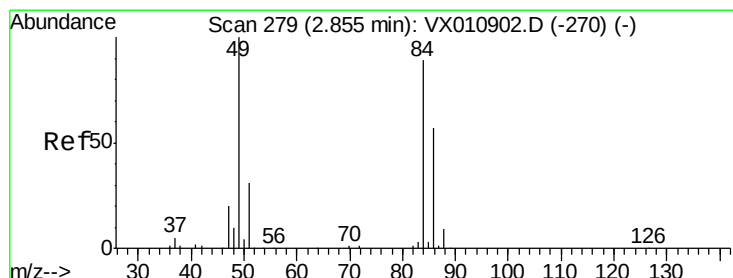
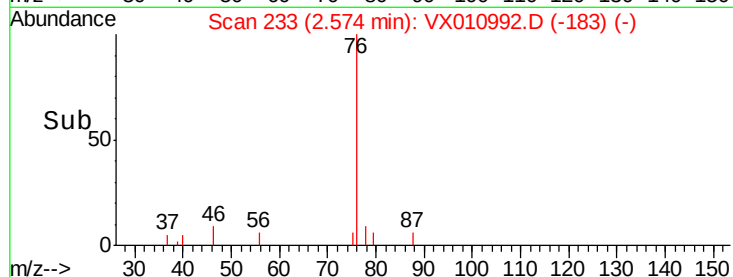
400

200

0

2.50 2.55 2.60 2.65

Time-->



#20

Methylene Chloride

Concen: 0.311 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Tgt Ion: 84 Resp: 666

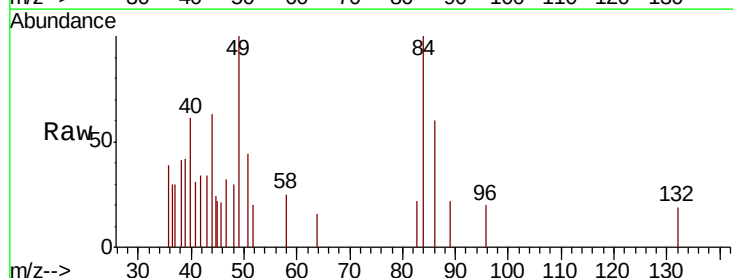
Ion Ratio Lower Upper

84 100

49 100.3 89.9 134.9

51 27.5 27.8 41.6#

86 60.6 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

600

500

400

300

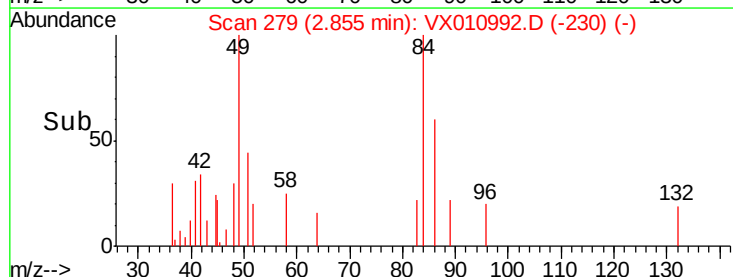
200

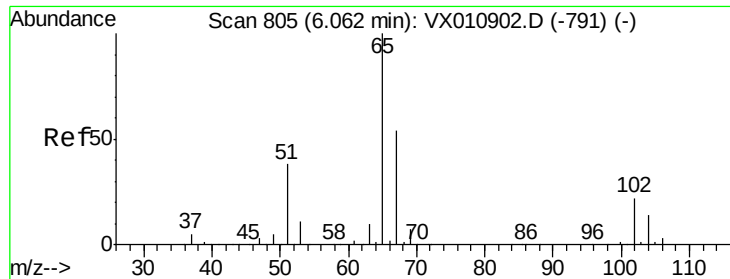
100

0

2.80 2.85 2.90

Time-->

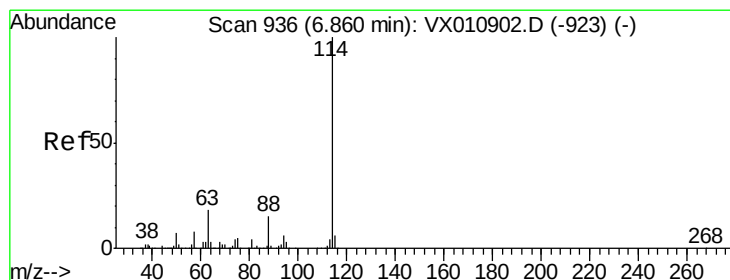
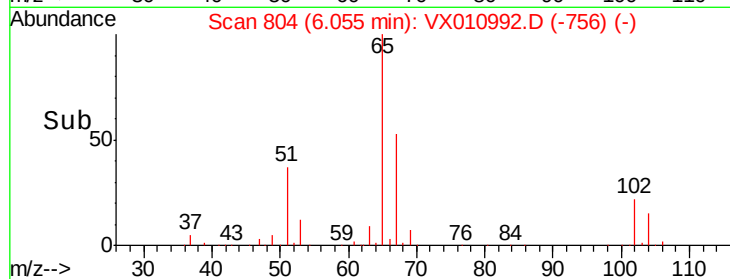
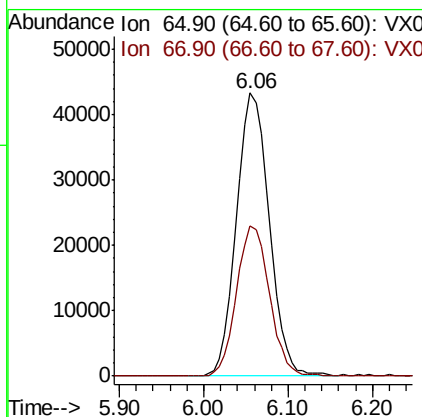
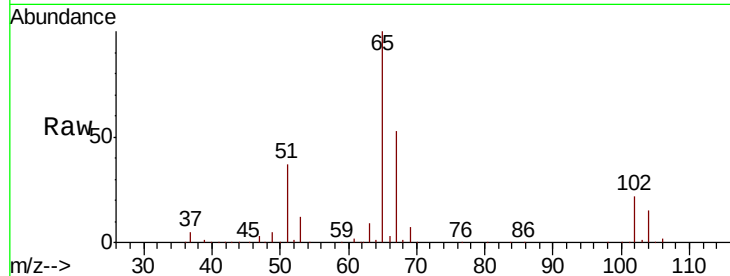




#33
 1,2-Dichloroethane-d4
 Concen: 51.015 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.01 min
 Lab File: VX010992.D
 Acq: 19 Jul 2019 11:01

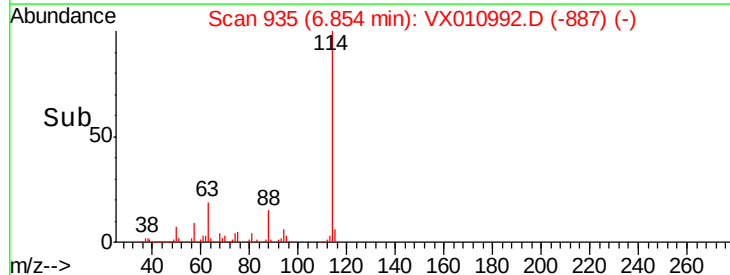
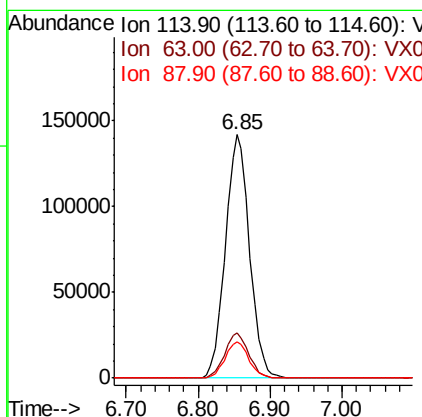
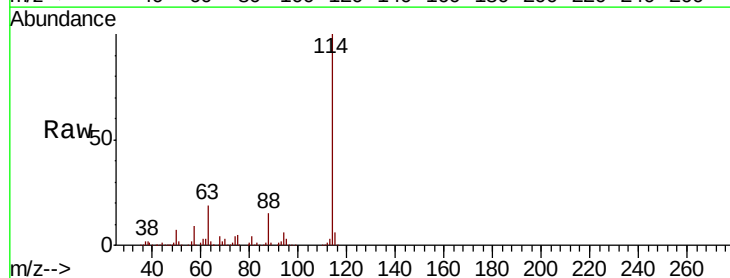
Instrument :
 MSVOA_X
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 VX0720WBL01

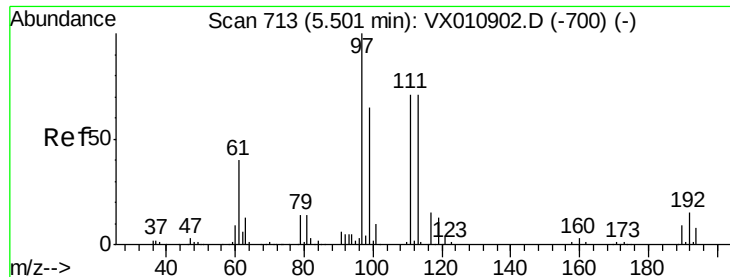
Tot Ion: 65 Resp: 114179
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX010992.D
 Acq: 19 Jul 2019 11:01

Tgt Ion: 114 Resp: 330377
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 35.6
 88 14.9 0.0 29.8





#35

Dibromofluoromethane

Concen: 49.353 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

VX0720WBL01

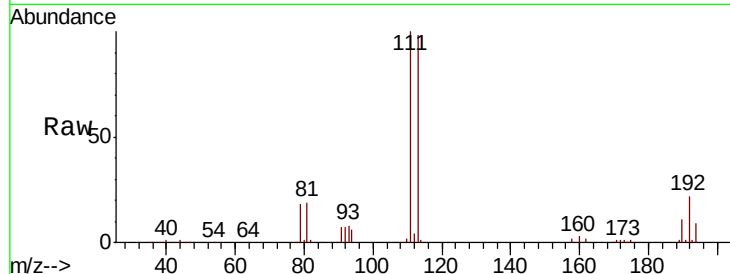
Tot Ion:113 Resp: 103491

Ion Ratio Lower Upper

113 100

111 103.7 82.3 123.5

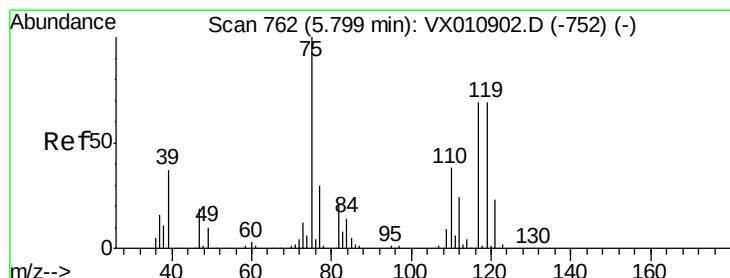
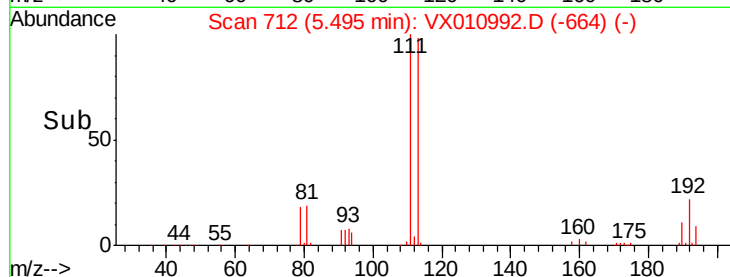
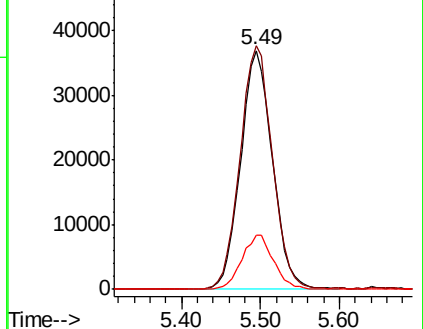
192 22.6 17.4 26.2



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: 5.318 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

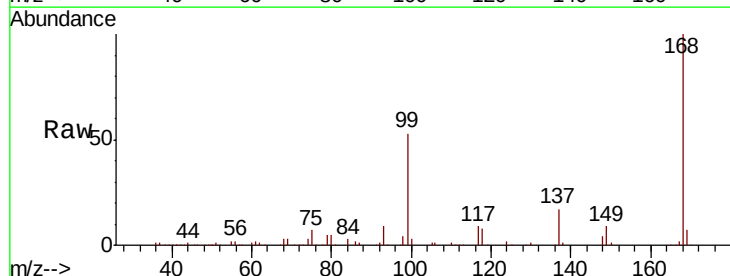
Tgt Ion: 75 Resp: 14433

Ion Ratio Lower Upper

75 100

110 9.0 19.9 59.7#

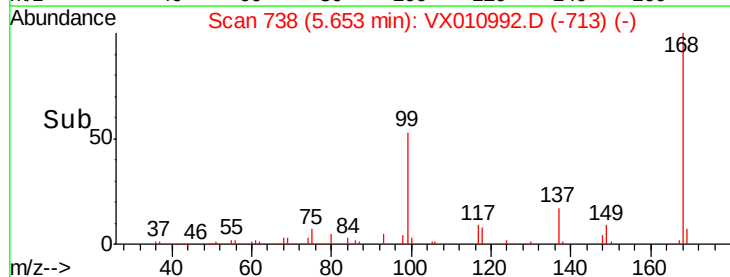
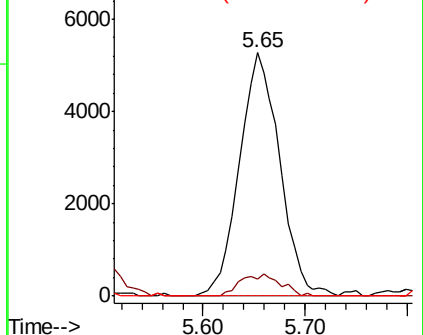
77 0.0 25.0 37.4#

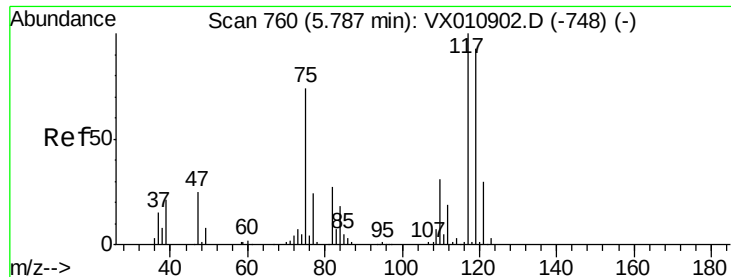


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.916 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

VX0720WBL01

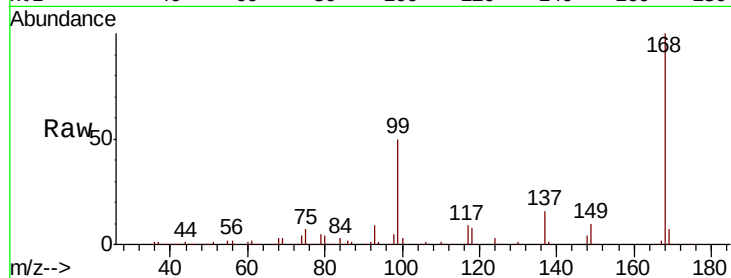
Tot Ion:117 Resp: 19558

Ion Ratio Lower Upper

117 100

119 3.8 74.2 111.2#

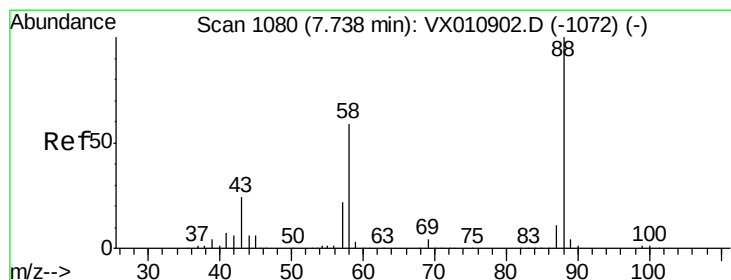
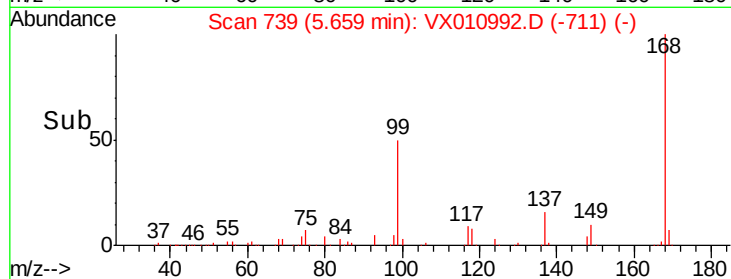
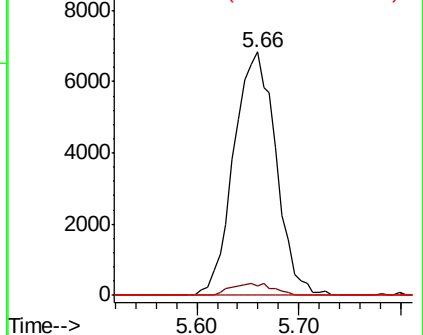
121 0.0 24.2 36.2#



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: 0.369 ug/l

RT: 7.55 min Scan# 1049

Delta R.T. -0.19 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

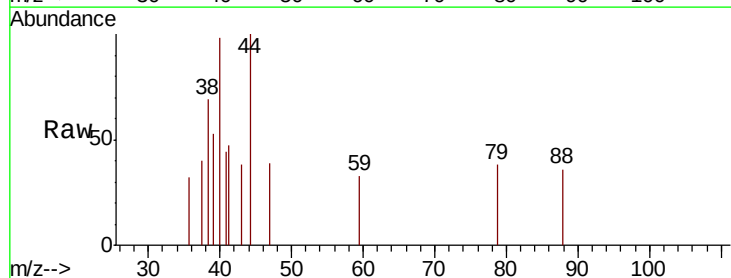
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

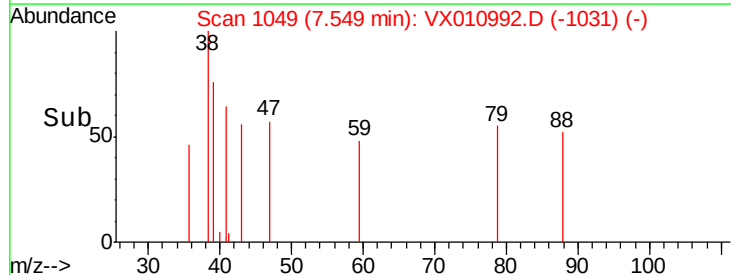
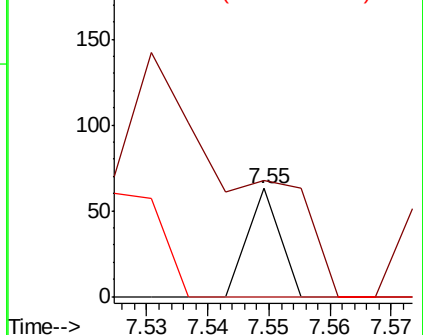
58 0.0 49.8 74.8#

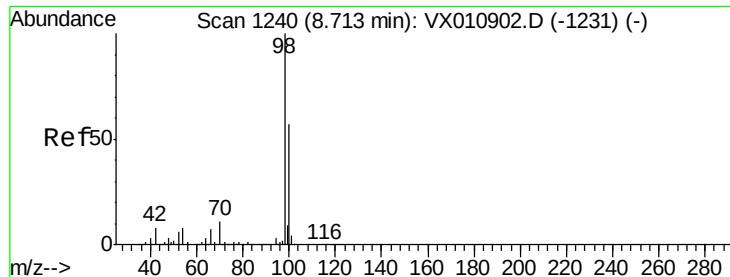


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

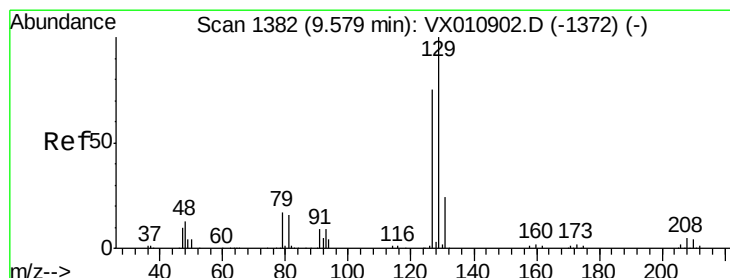
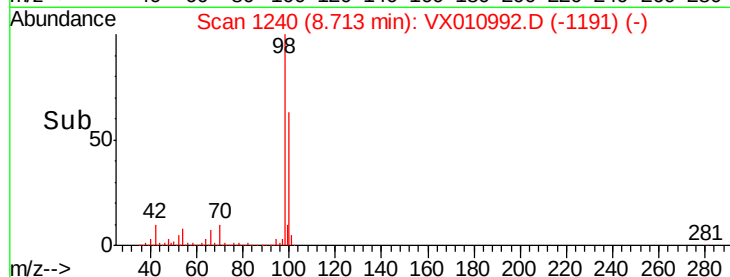
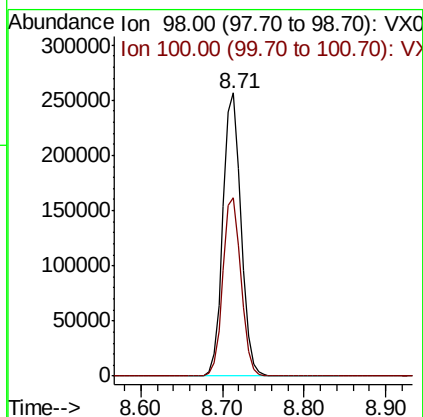
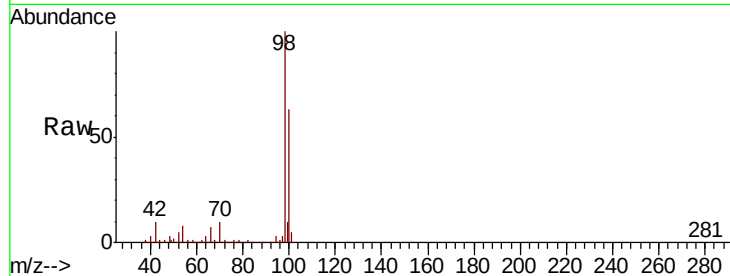




#50
Toluene-d8
Concen: 50.105 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

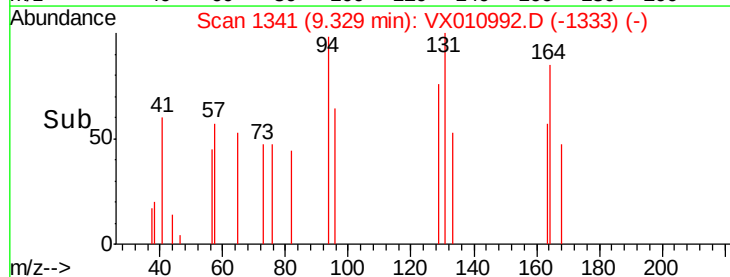
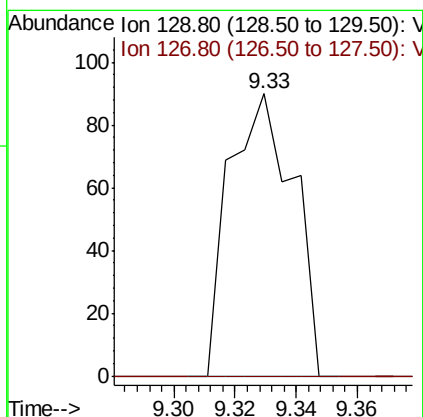
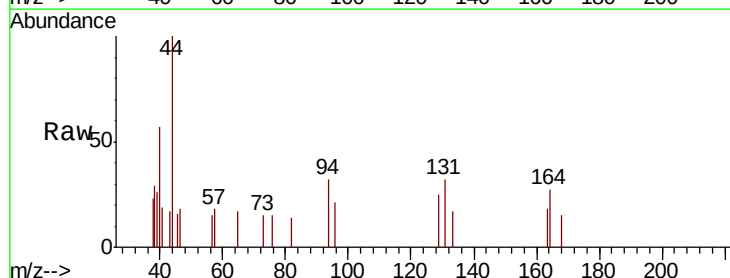
Instrument :
MSVOA_X
ClientSampleId :
VX0720WBL01

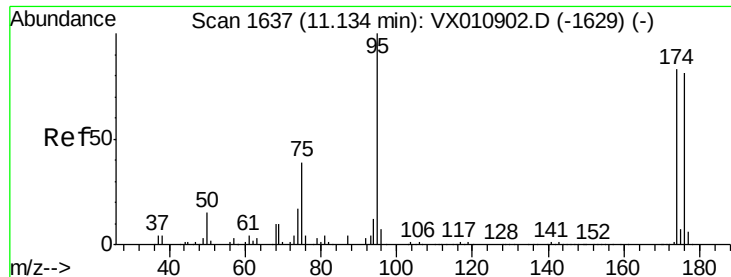
Tot Ion: 98 Resp: 394077
Ion Ratio Lower Upper
98 100
100 63.3 50.6 75.8



#60
Dibromochloromethane
Concen: 2.576 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

Tgt Ion: 129 Resp: 131
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 46.318 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

VX0720WBL01

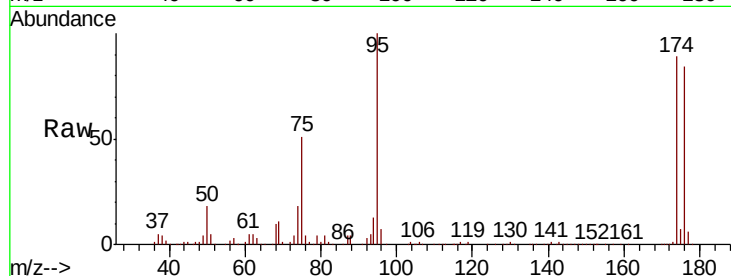
Tot Ion: 95 Resp: 133902

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.6

176 87.3 0.0 173.8

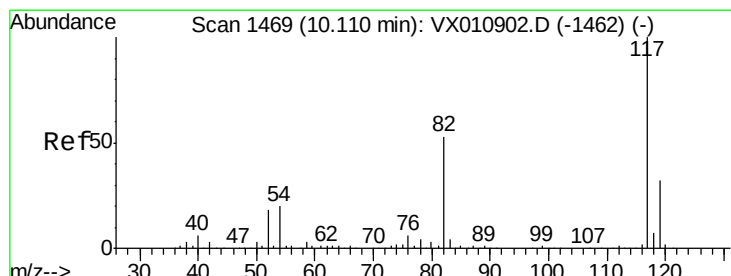
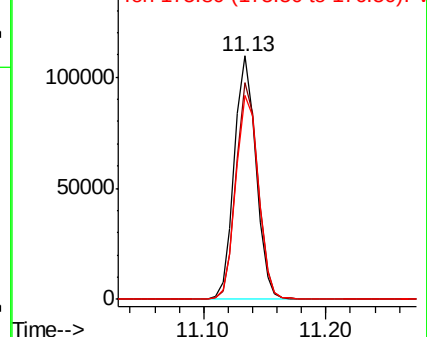
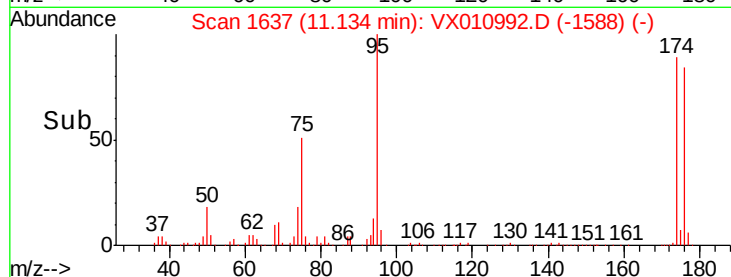


Abundance

Ion 94.90 (94.60 to 95.60): VX010992.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010992.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010992.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

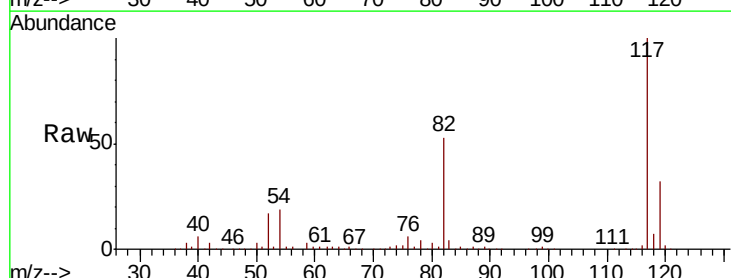
Tgt Ion: 117 Resp: 299211

Ion Ratio Lower Upper

117 100

82 52.6 42.6 63.8

119 32.2 25.9 38.9

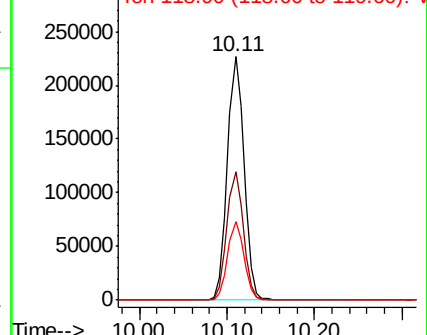
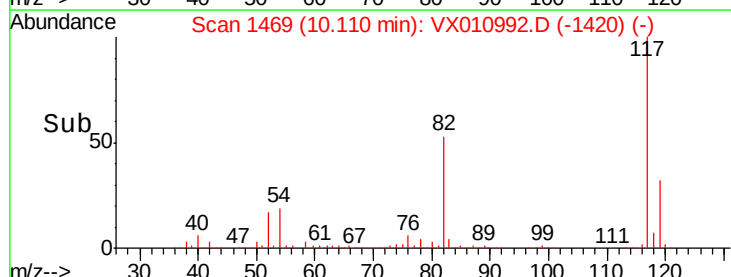


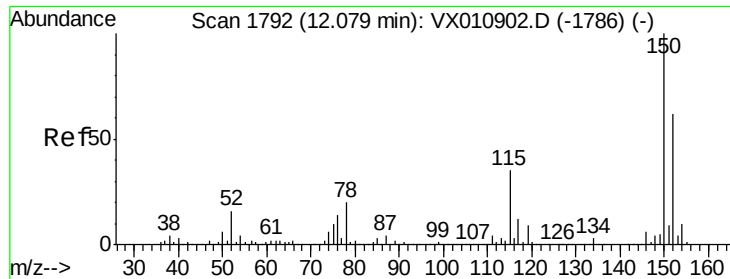
Abundance

Ion 116.90 (116.60 to 117.60): VX010992.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010992.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010992.D (-1420) (-)



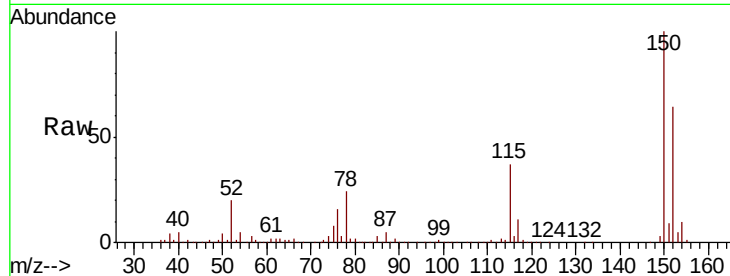


#72

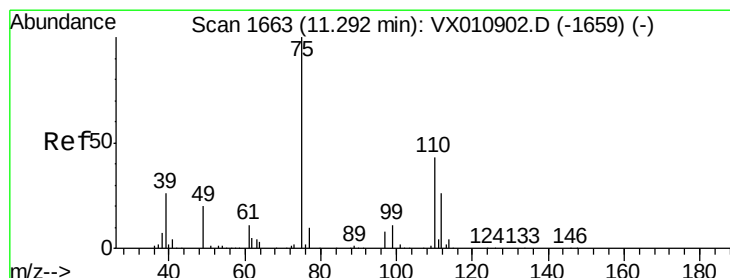
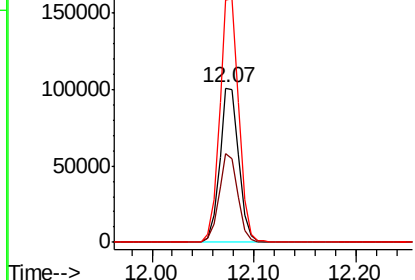
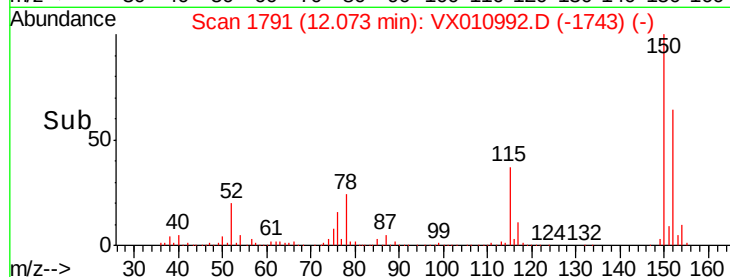
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

Instrument :
MSVOA_X
ClientSampleId :
VX0720WBL01

Tot Ion:152 Resp: 131817
Ion Ratio Lower Upper
152 100
115 56.7 39.7 119.1
150 158.3 0.0 345.6



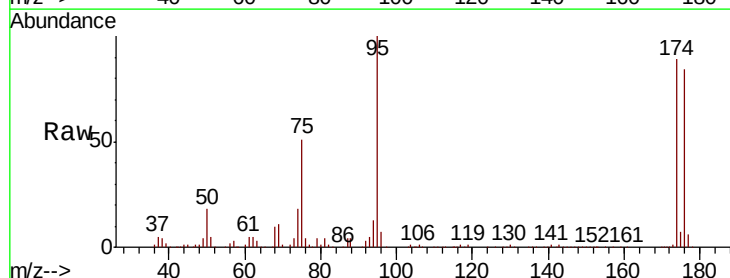
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



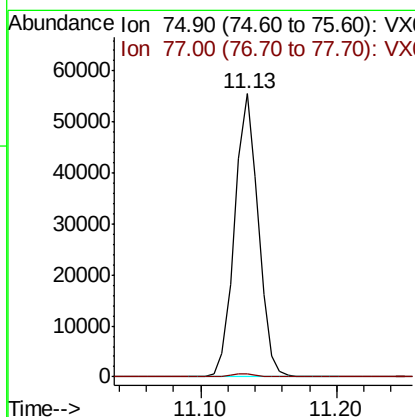
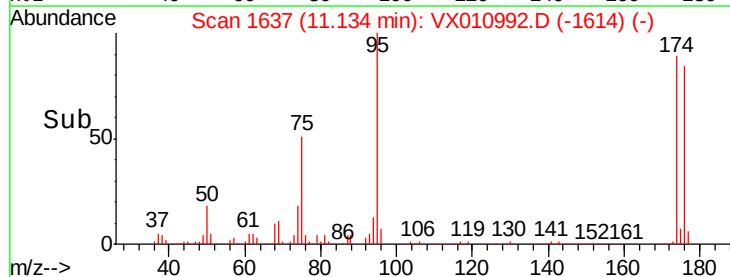
#76

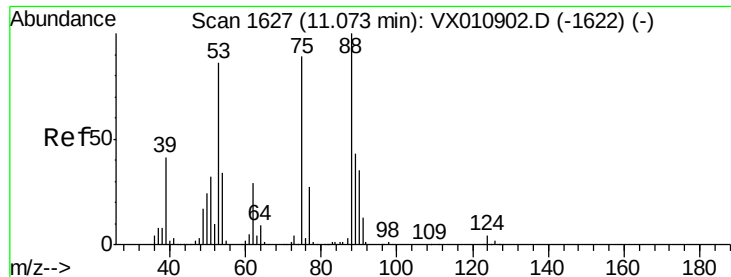
1,2,3-Trichloropropane
Concen: 28.254 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010992.D
Acq: 19 Jul 2019 11:01

Tgt Ion: 75 Resp: 67208
Ion Ratio Lower Upper
75 100
77 1.4 21.3 64.0#



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: 69.865 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

VX0720WBL01

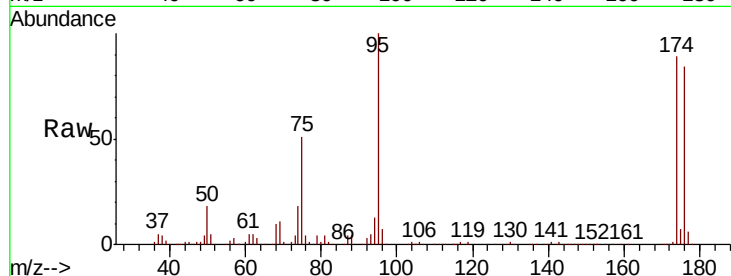
Tot Ion: 75 Resp: 67208

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

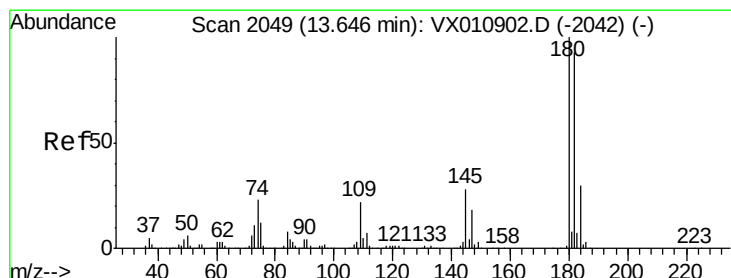
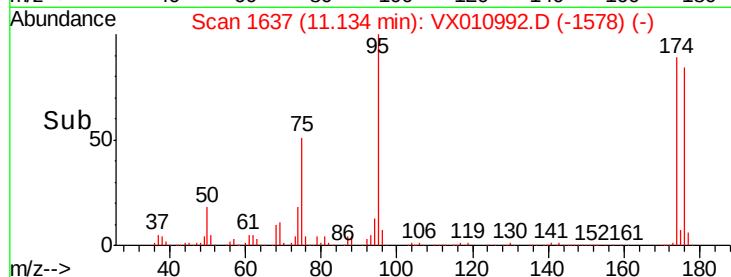
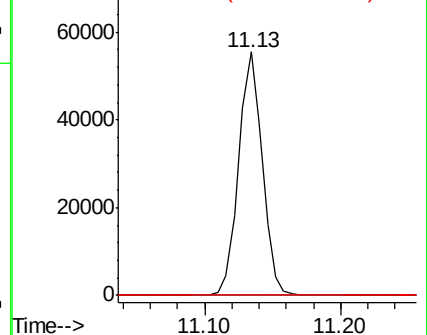
89 0.0 38.5 57.7#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.232 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

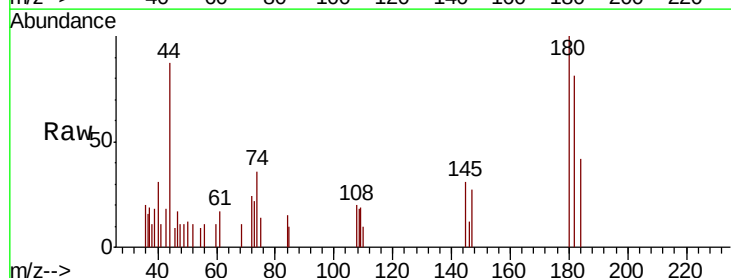
Tgt Ion:180 Resp: 665

Ion Ratio Lower Upper

180 100

182 114.4 47.1 141.3

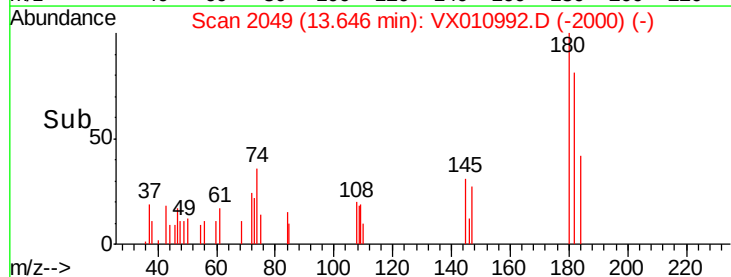
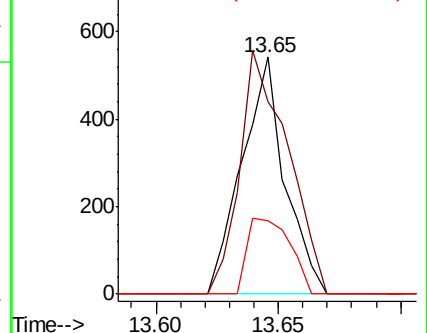
145 31.4 14.8 44.4

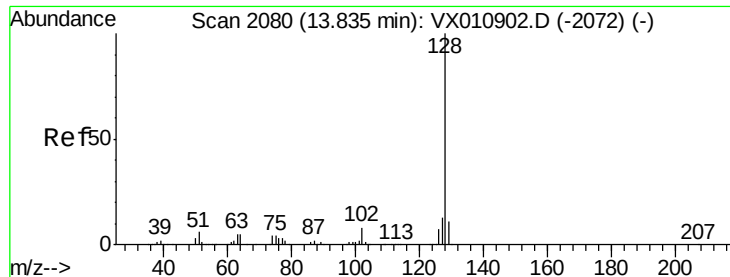


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.244 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

Instrument :

MSVOA_X

ClientSampleId :

VX0720WBL01

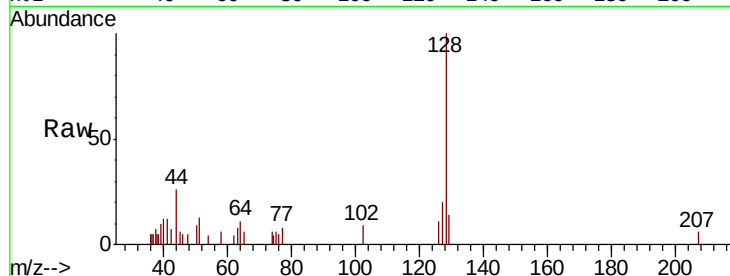
Tot Ion:128 Resp: 2064

Ion Ratio Lower Upper

128 100

127 15.0 10.4 15.6

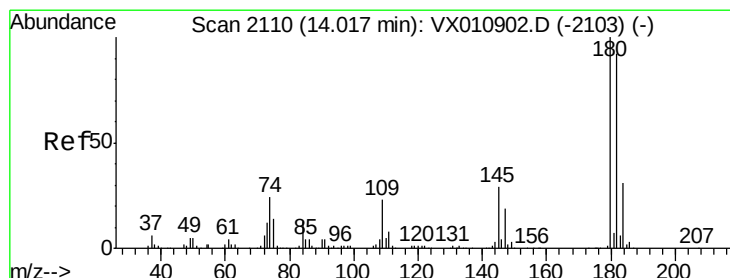
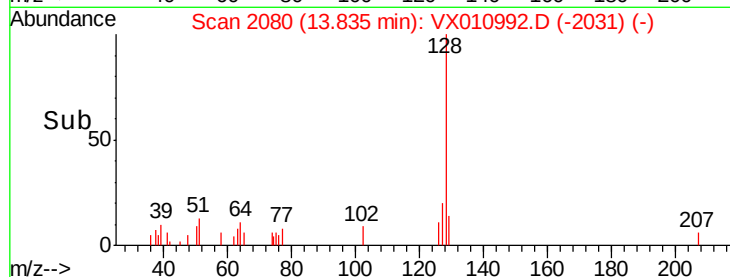
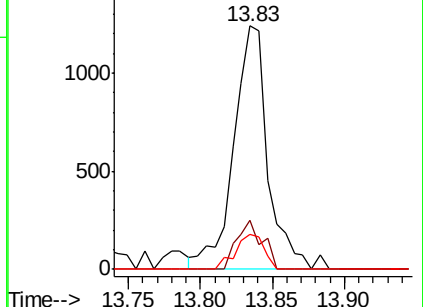
129 12.0 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.228 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX010992.D

Acq: 19 Jul 2019 11:01

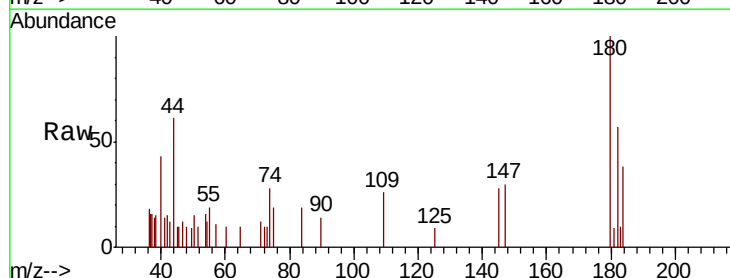
Tgt Ion:180 Resp: 650

Ion Ratio Lower Upper

180 100

182 76.9 47.4 142.3

145 36.3 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

