

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010528.D
 Acq On : 28 Jun 2019 11:54
 Operator : JC/SP
 Sample : K3588-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20190627

Quant Time: Jun 29 04:36:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	252582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	378971	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	330726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143449	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	116060	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.50	113	116169	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	8.71	98	439286	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	137726	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	

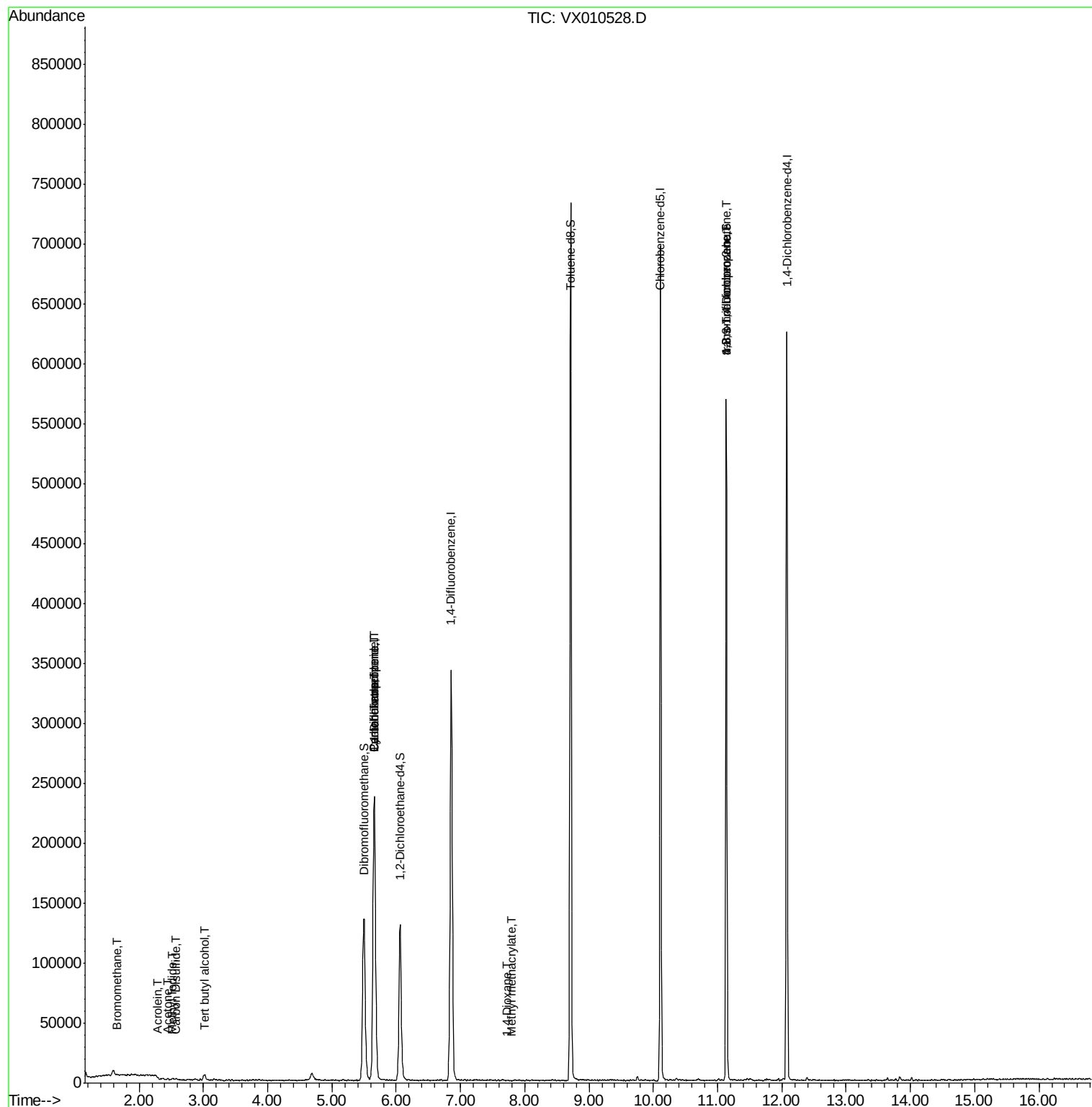
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	638	0.585	ug/l #	61
10) Methyl Iodide	2.52	142	1169	0.381	ug/l	98
11) Tert butyl alcohol	3.01	59	2946	4.754	ug/l #	76
13) Acrolein	2.29	56	480	1.168	ug/l	92
16) Acetone	2.44	43	353	0.297	ug/l #	75
17) Carbon Disulfide	2.57	76	1211	0.206	ug/l #	51
31) Cyclohexane	5.66	56	4358	1.274	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15059	5.000	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21504	6.594	ug/l #	15
48) Methyl methacrylate	7.79	41	482	0.202	ug/l #	15
49) 1,4-Dioxane	7.71	88	46	0.670	ug/l #	27
76) 1,2,3-Trichloropropane	11.13	75	65794	25.170	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	65794	58.718	ug/l #	16

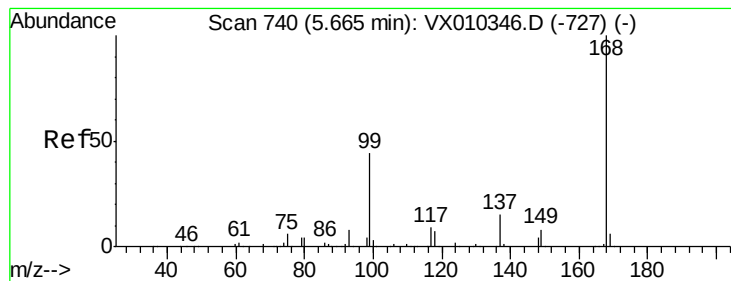
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

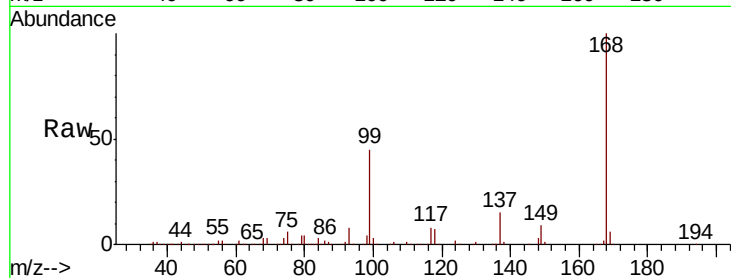
TT-TB-20190627

Tot Ion:168 Resp: 252582

Ion Ratio Lower Upper

168 100

99 45.2 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

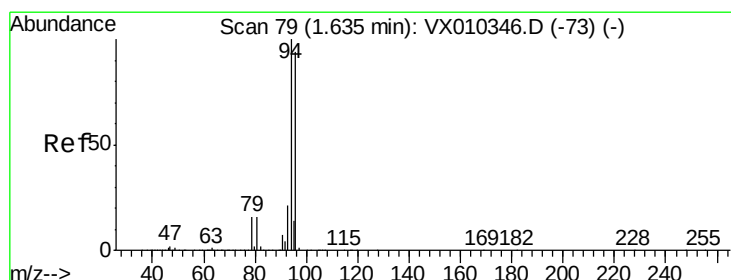
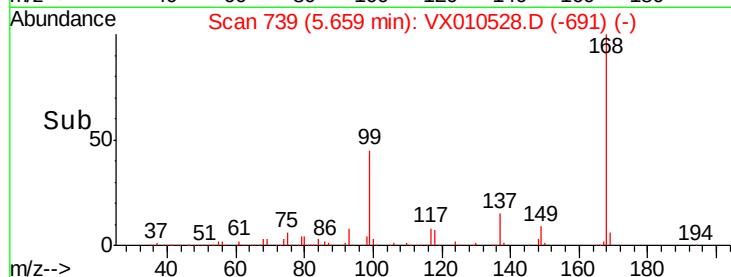
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.585 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010528.D

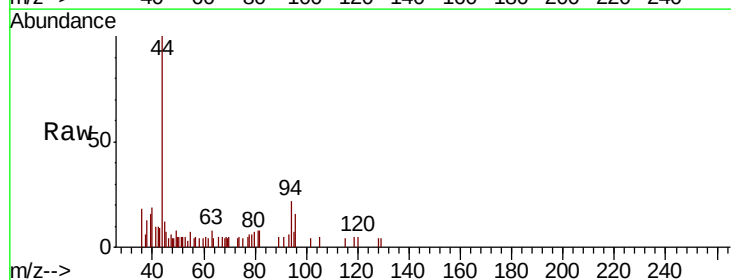
Acq: 28 Jun 2019 11:54

Tgt Ion: 94 Resp: 638

Ion Ratio Lower Upper

94 100

96 56.5 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

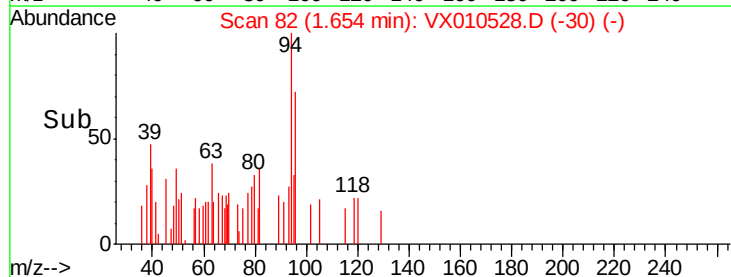
300

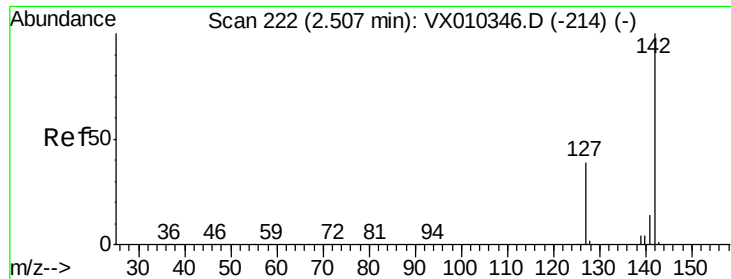
200

100

0

Time--> 1.60 1.65 1.70

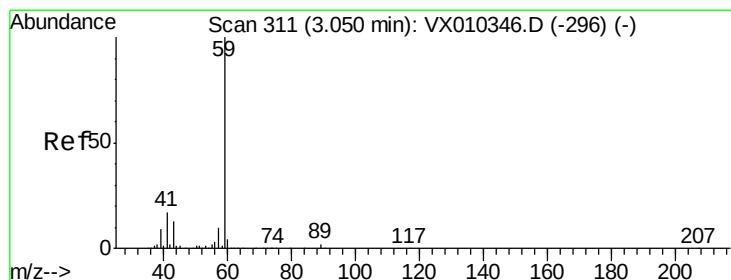
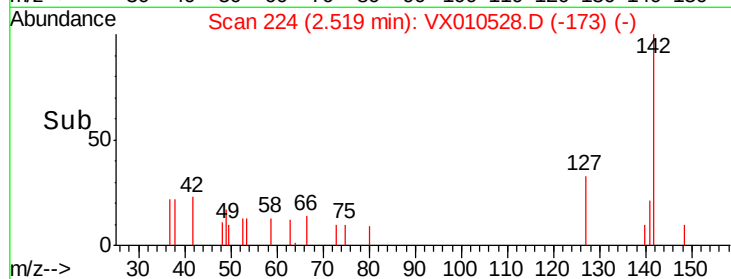
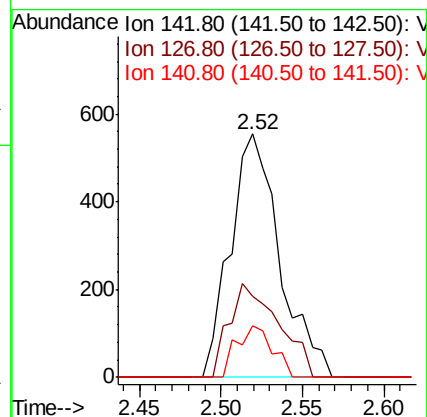
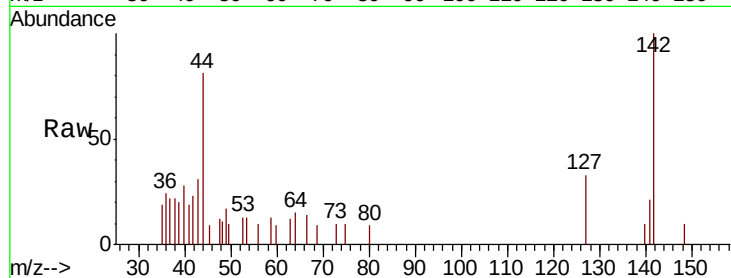




#10
Methvl Iodide
Concen: 0.381 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010528.D
Acq: 28 Jun 2019 11:54

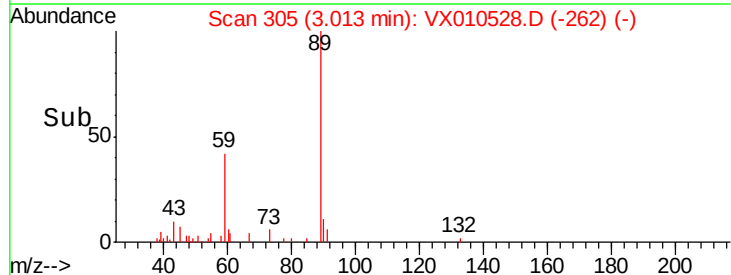
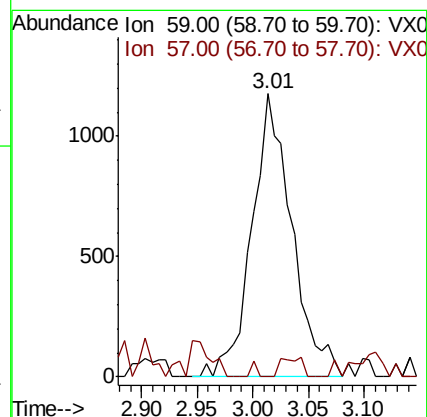
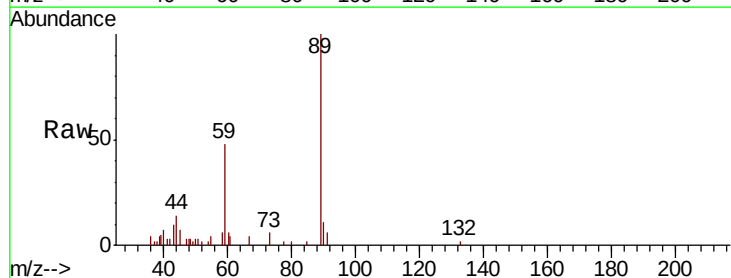
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20190627

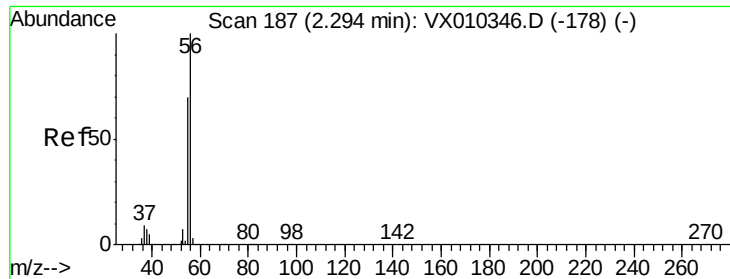
Tot Ion:142 Resp: 1169
Ion Ratio Lower Upper
142 100
127 38.3 31.1 46.7
141 15.5 11.2 16.8



#11
Tert butyl alcohol
Concen: 4.754 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010528.D
Acq: 28 Jun 2019 11:54

Tgt Ion: 59 Resp: 2946
Ion Ratio Lower Upper
59 100
57 0.8 7.7 11.5#





#13

Acrolein

Concen: 1.168 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

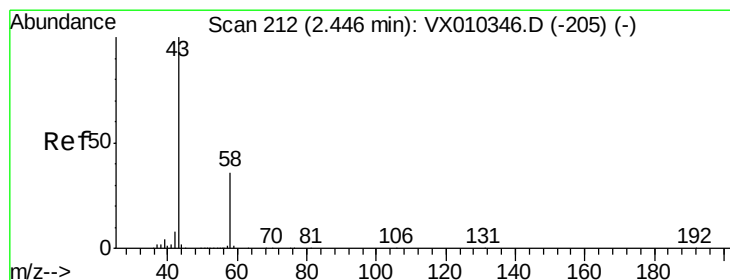
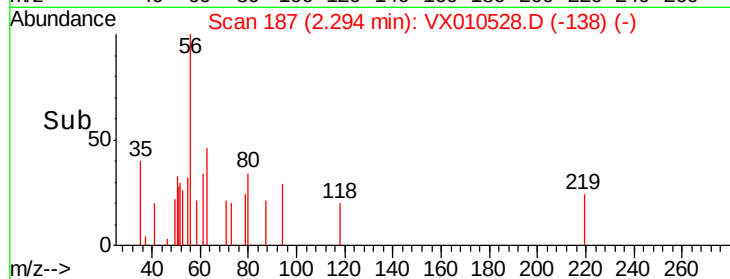
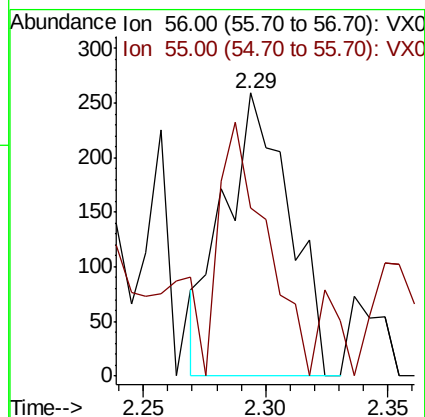
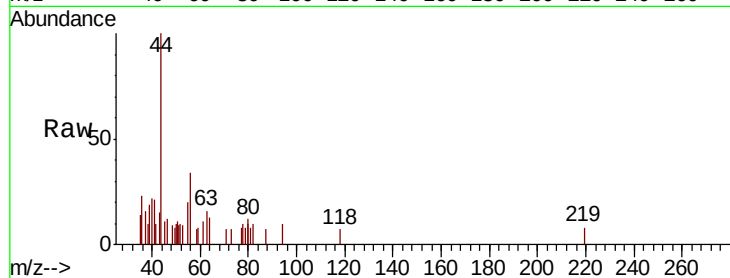
TT-TB-20190627

Tot Ion: 56 Resp: 480

Ion Ratio Lower Upper

56 100

55 64.6 56.9 85.3



#16

Acetone

Concen: 0.297 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010528.D

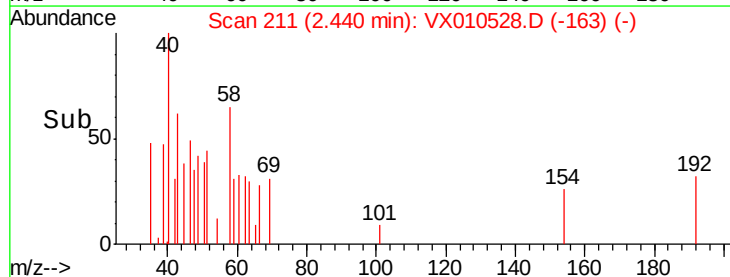
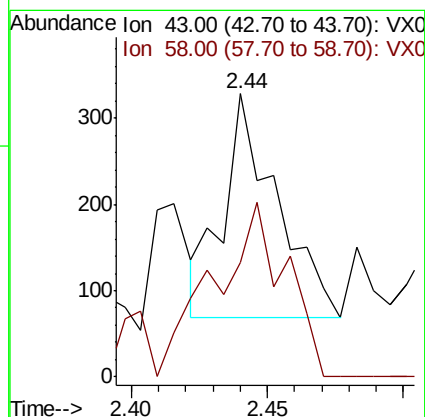
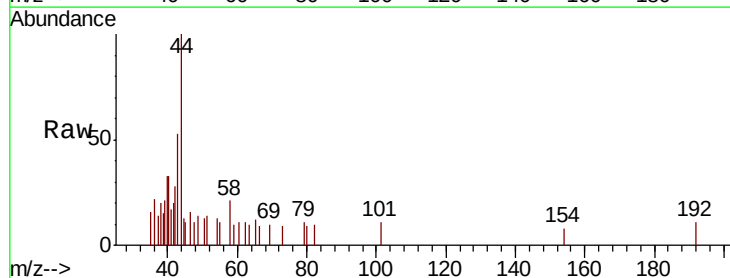
Acq: 28 Jun 2019 11:54

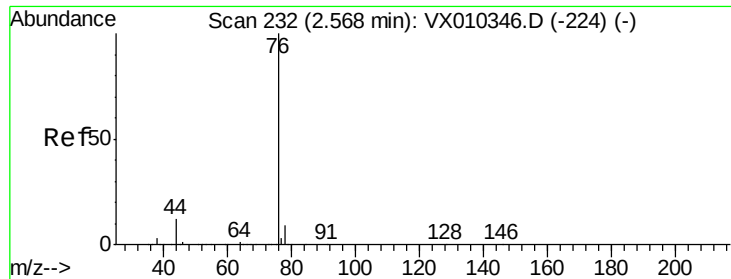
Tgt Ion: 43 Resp: 353

Ion Ratio Lower Upper

43 100

58 51.0 28.9 43.3#





#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

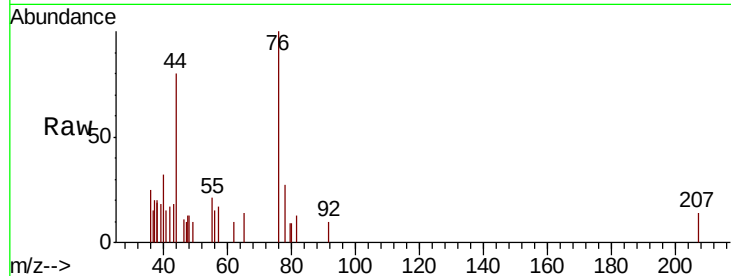
TT-TB-20190627

Tot Ion: 76 Resp: 1211

Ion Ratio Lower Upper

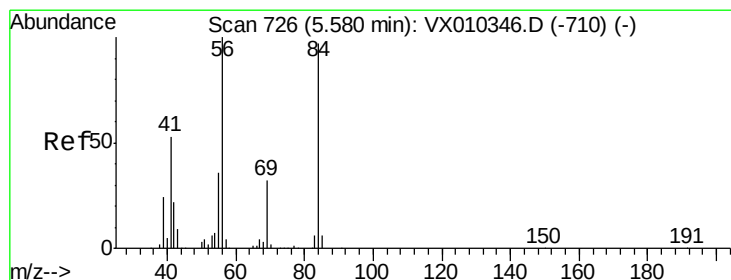
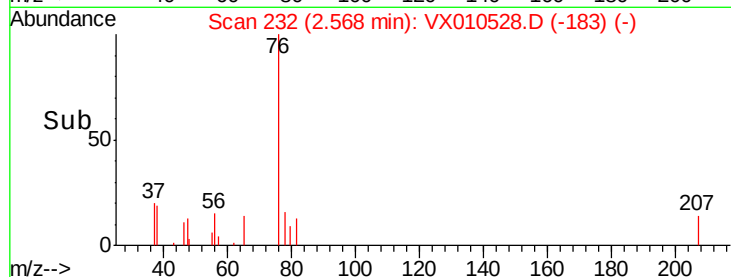
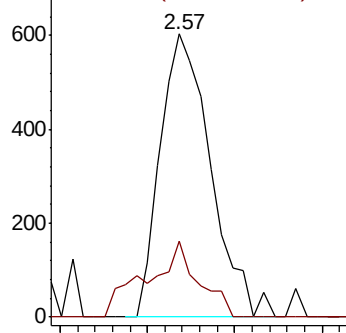
76 100

78 26.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#31

Cyclohexane

Concen: 1.274 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

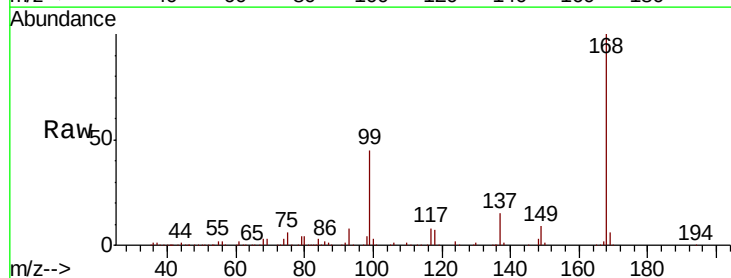
Tgt Ion: 56 Resp: 4358

Ion Ratio Lower Upper

56 100

69 173.5 25.9 38.9#

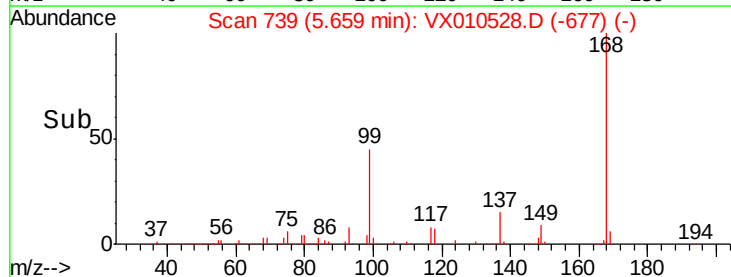
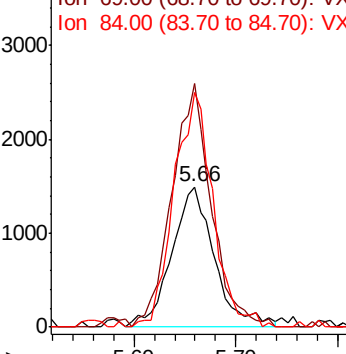
84 167.4 78.0 117.0#

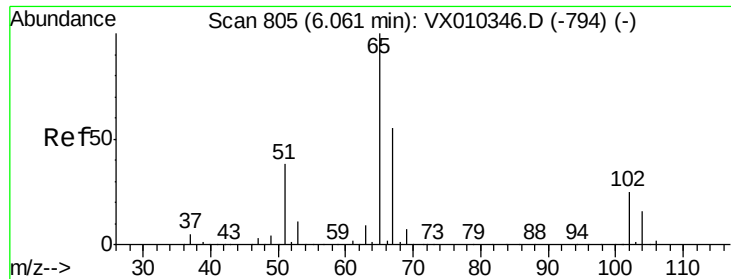


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

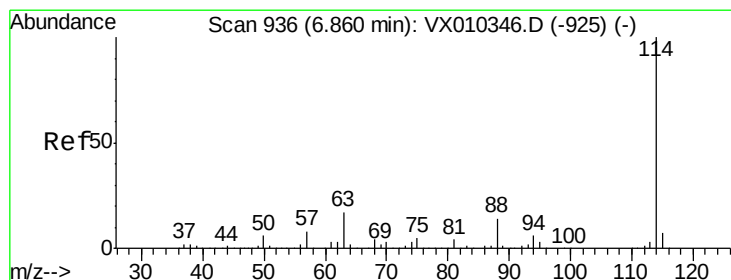
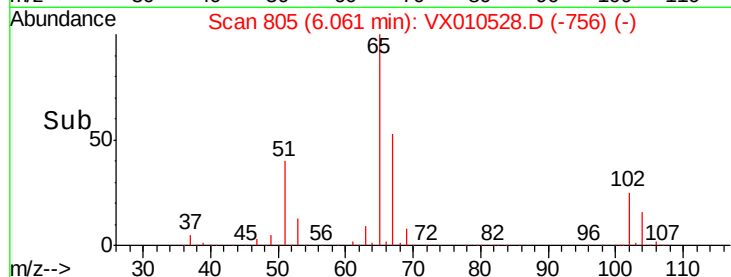
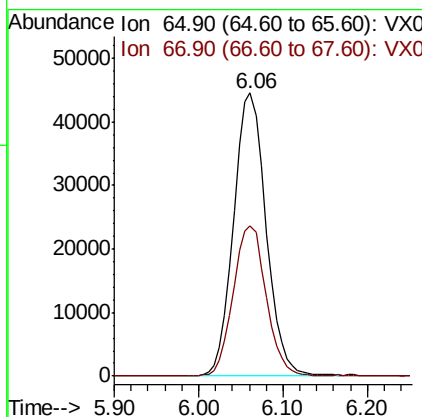
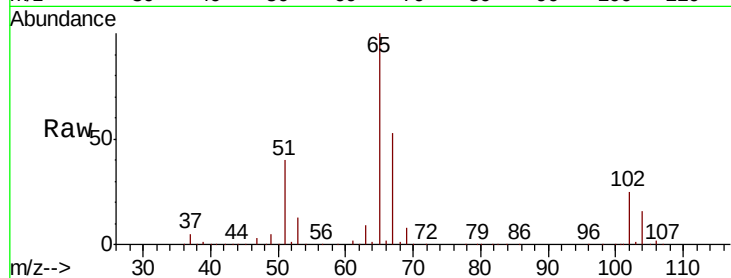




#33
 1,2-Dichloroethane-d4
 Concen: 49.008 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010528.D
 Acq: 28 Jun 2019 11:54

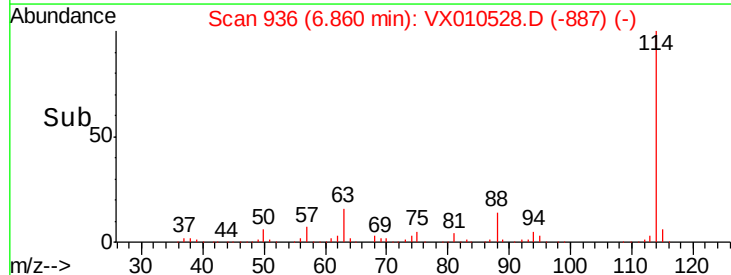
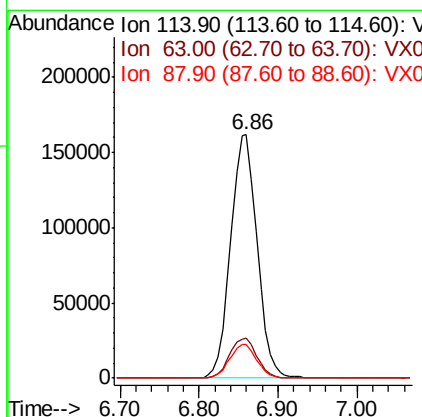
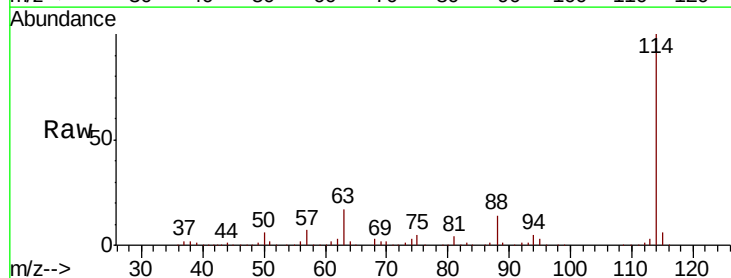
Instrument :
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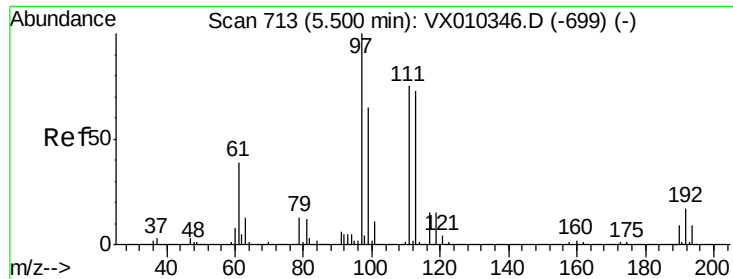
Tot Ion: 65 Resp: 116060
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010528.D
 Acq: 28 Jun 2019 11:54

Tgt Ion: 114 Resp: 378971
 Ion Ratio Lower Upper
 114 100
 63 16.5 0.0 33.8
 88 13.8 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.101 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

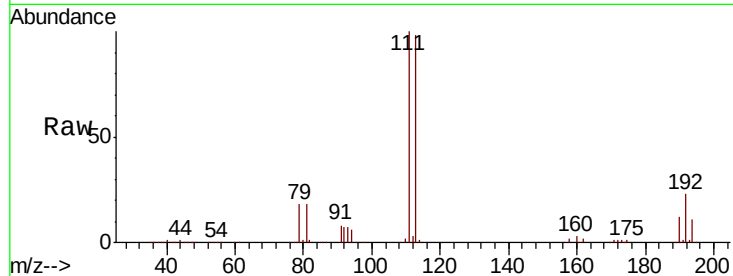
Tot Ion:113 Resp: 116169

Ion Ratio Lower Upper

113 100

111 100.8 81.2 121.8

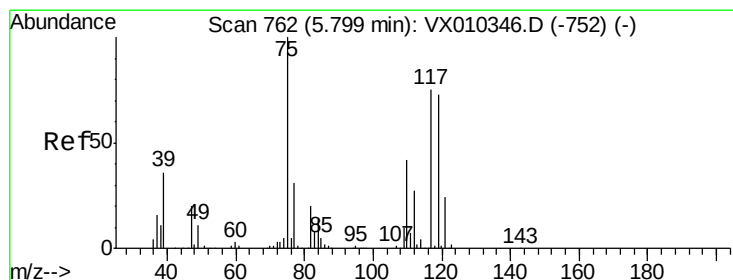
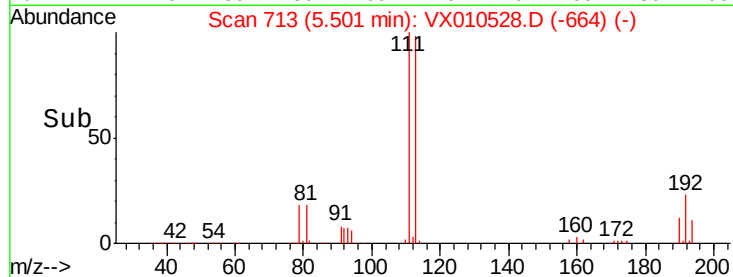
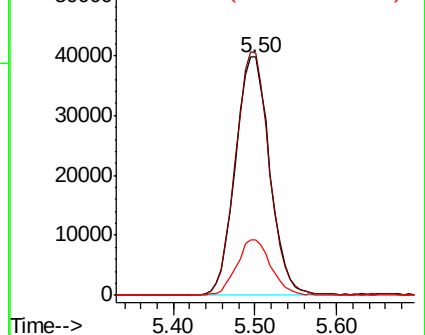
192 23.0 18.6 27.8



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: 5.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

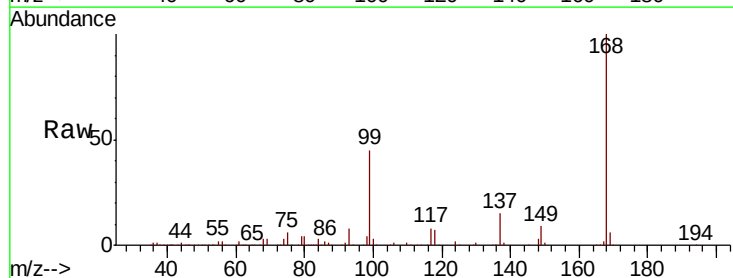
Tgt Ion: 75 Resp: 15059

Ion Ratio Lower Upper

75 100

110 12.0 20.8 62.2#

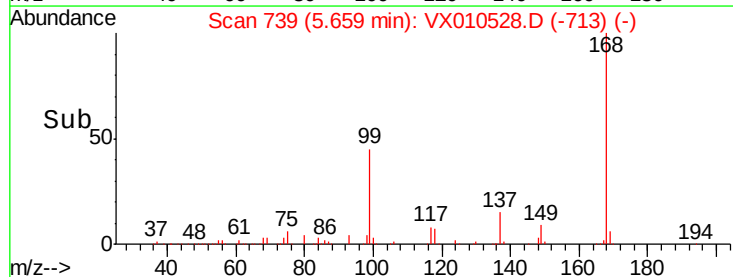
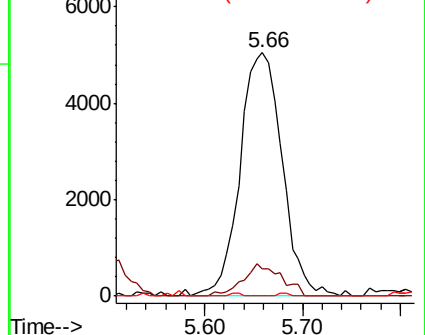
77 0.0 25.4 38.0#

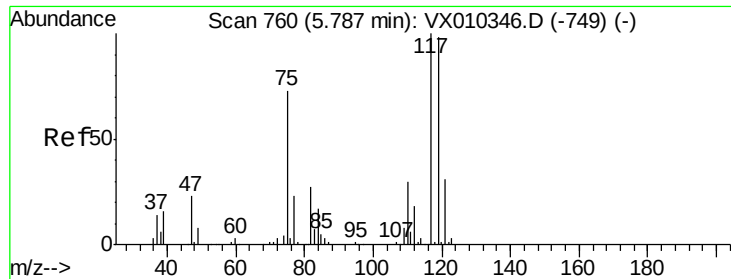


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.594 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

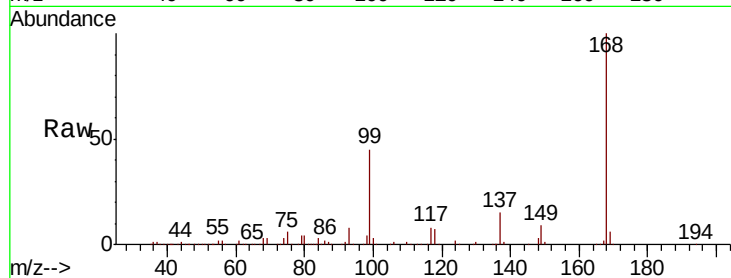
Tot Ion:117 Resp: 21504

Ion Ratio Lower Upper

117 100

119 5.4 78.2 117.4#

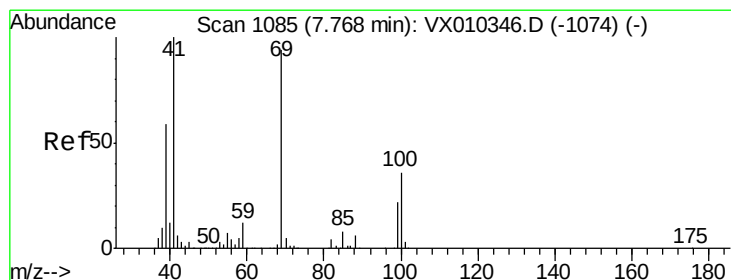
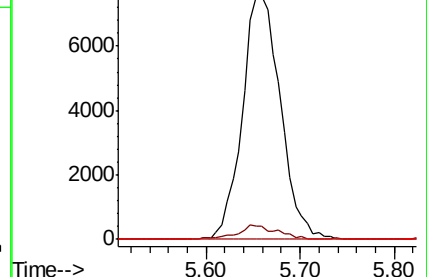
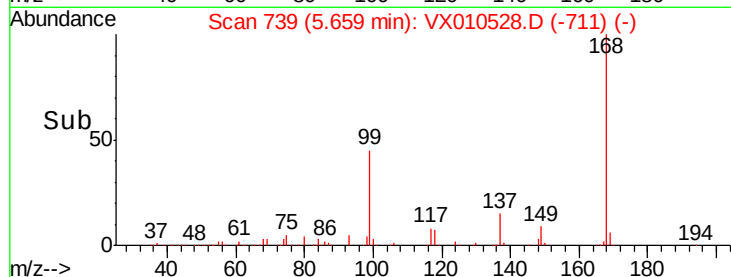
121 0.0 24.7 37.1#



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



#48

Methyl methacrylate

Concen: 0.202 ug/l

RT: 7.79 min Scan# 1089

Delta R.T. 0.02 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

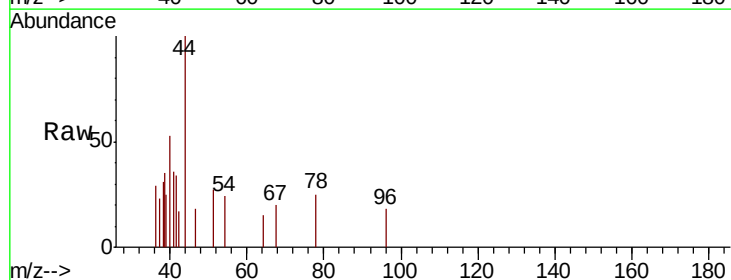
Tgt Ion: 41 Resp: 482

Ion Ratio Lower Upper

41 100

69 4.6 76.1 114.1#

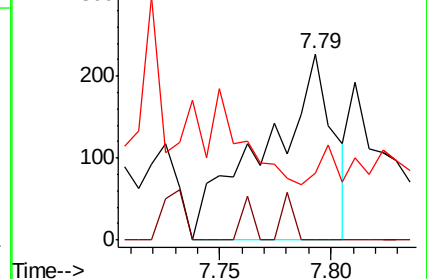
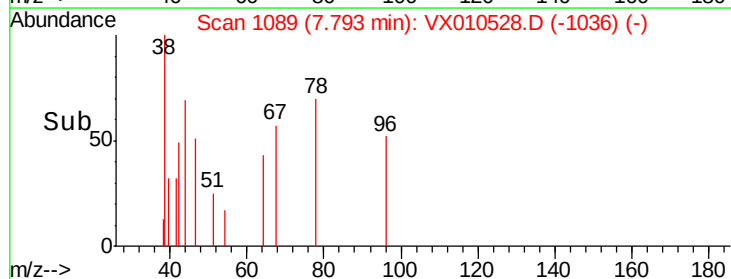
39 4.8 47.6 71.4#

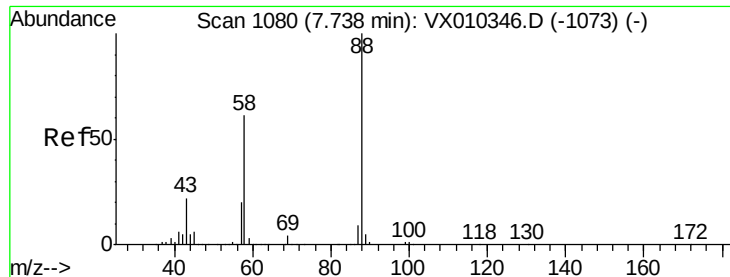


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.670 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.02 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

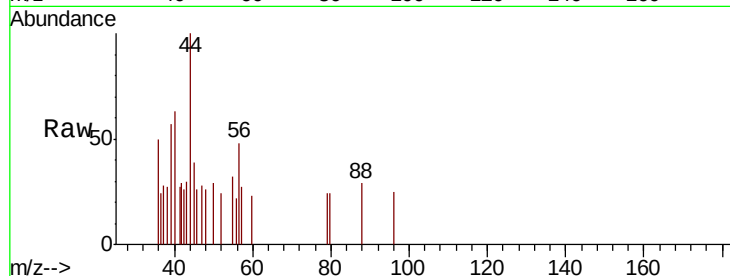
Tot Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 126.1 20.2 30.2#

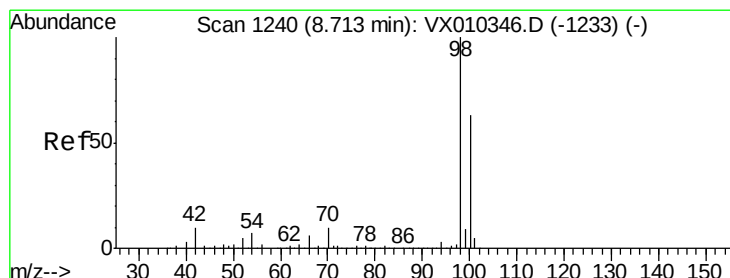
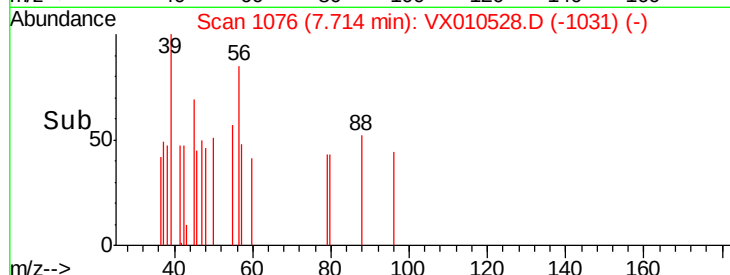
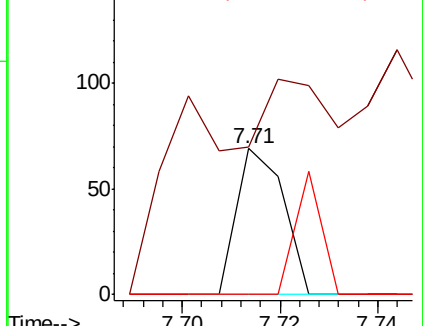
58 45.7 49.5 74.3#



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: 49.520 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010528.D

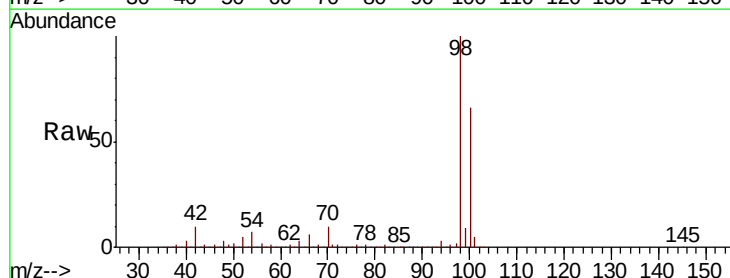
Acq: 28 Jun 2019 11:54

Tgt Ion: 98 Resp: 439286

Ion Ratio Lower Upper

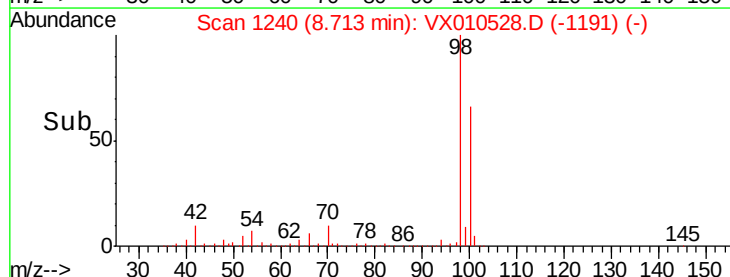
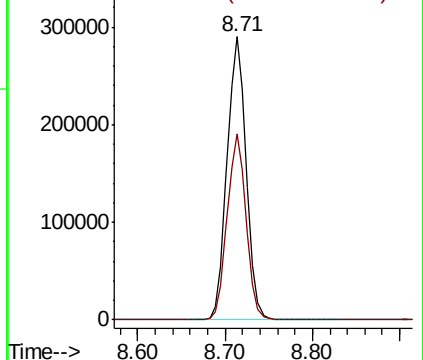
98 100

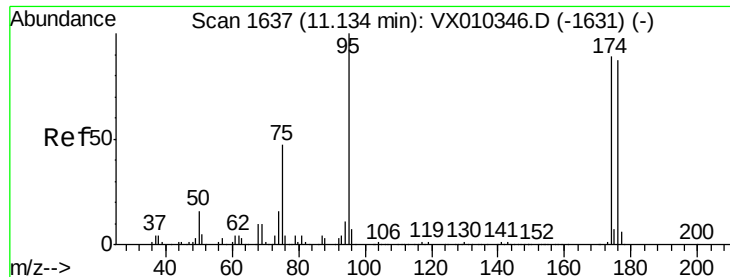
100 64.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.004 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

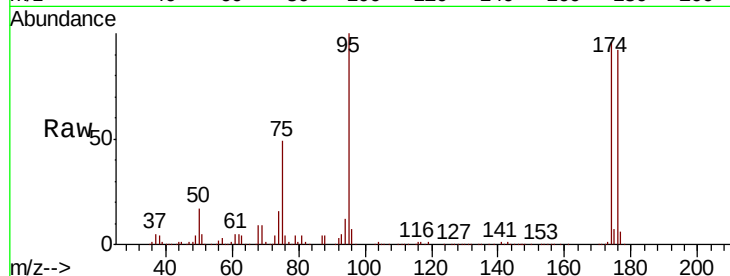
Tot Ion: 95 Resp: 137726

Ion Ratio Lower Upper

95 100

174 98.1 0.0 187.6

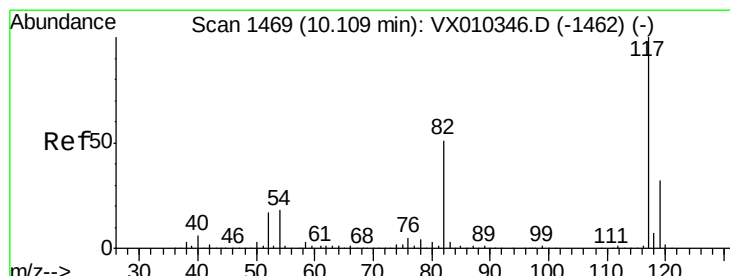
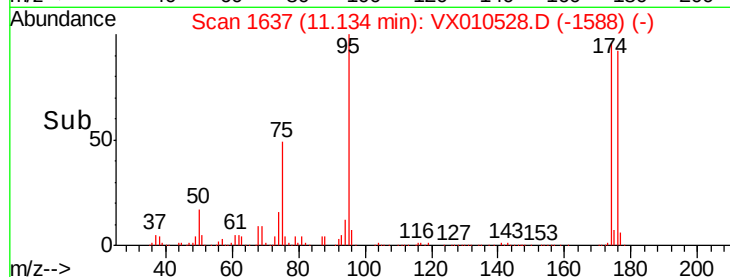
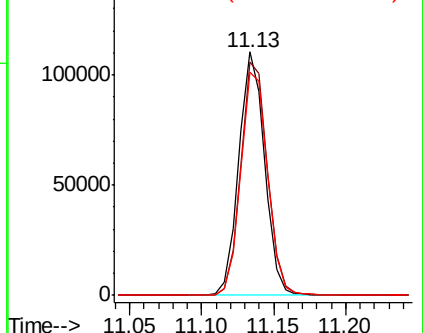
176 95.0 0.0 184.0



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: VX010528.D

Acq: 28 Jun 2019 11:54

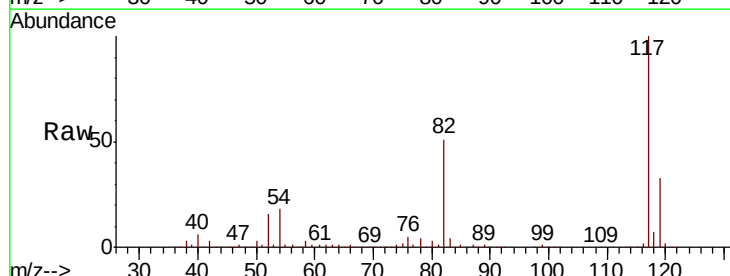
Tgt Ion: 117 Resp: 330726

Ion Ratio Lower Upper

117 100

82 50.7 41.2 61.8

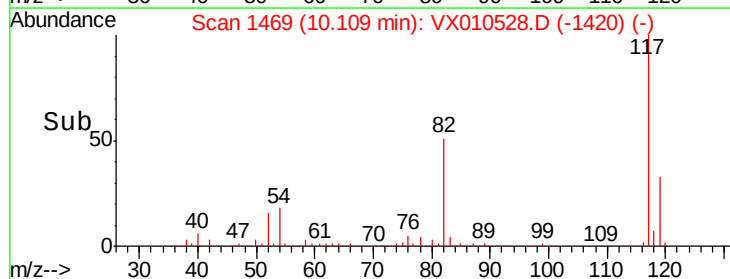
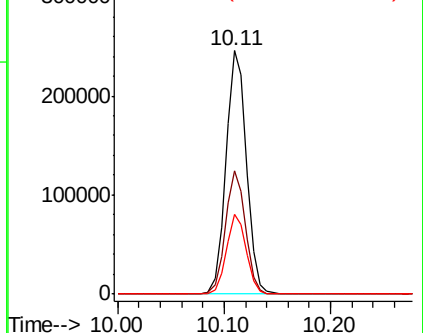
119 32.8 25.5 38.3

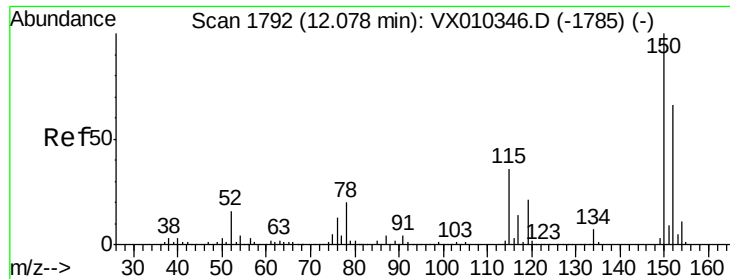


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

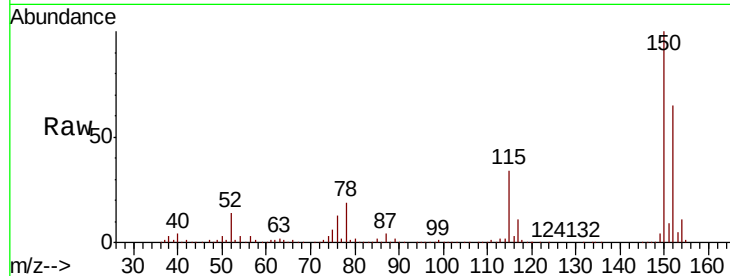
Tot Ion:152 Resp: 143449

Ion Ratio Lower Upper

152 100

115 54.6 38.6 115.7

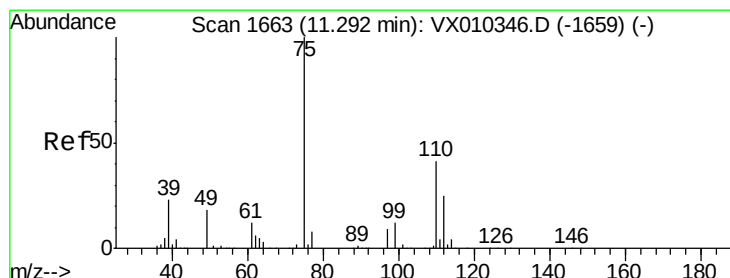
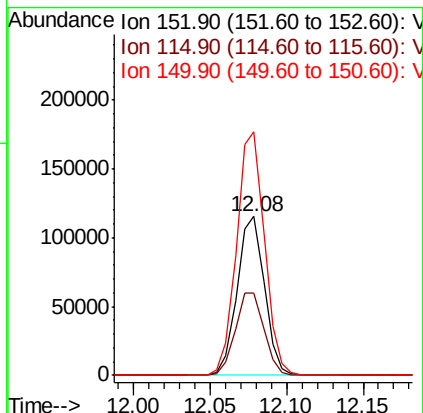
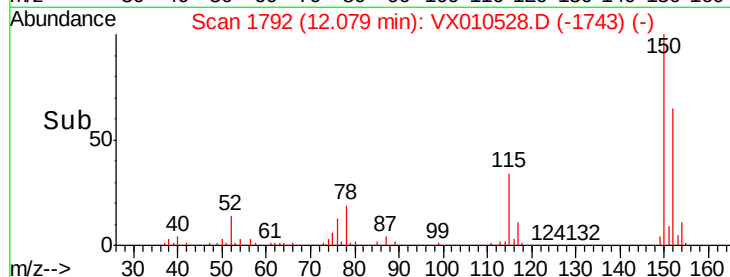
150 155.9 0.0 347.4



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: 25.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010528.D

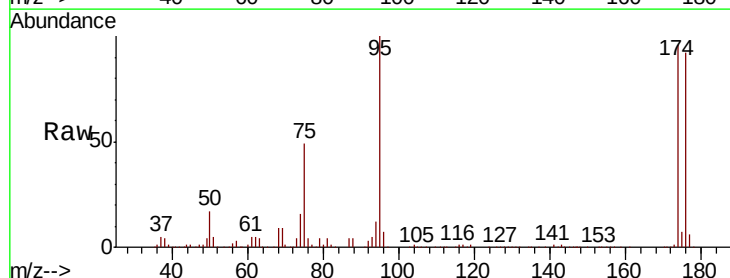
Acq: 28 Jun 2019 11:54

Tgt Ion: 75 Resp: 65794

Ion Ratio Lower Upper

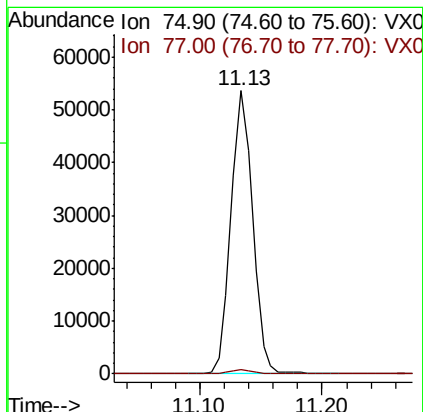
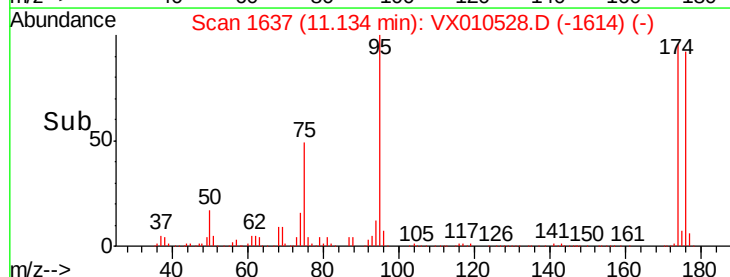
75 100

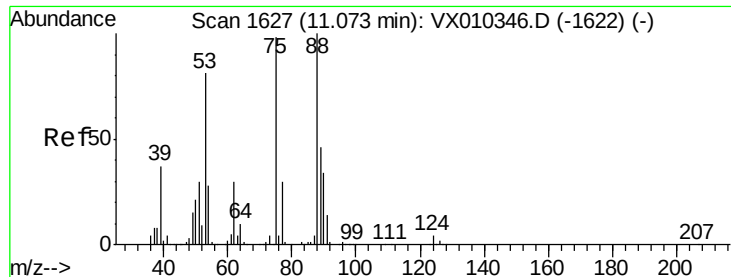
77 1.6 22.6 67.8#



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: 58.718 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010528.D

Acq: 28 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20190627

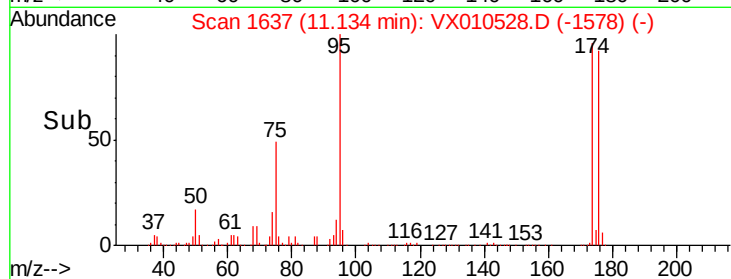
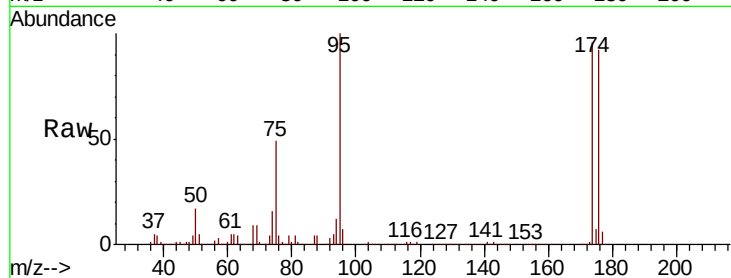
Tot Ion: 75 Resp: 65794

Ion Ratio Lower Upper

75 100

53 0.2 66.1 99.1#

89 0.1 37.8 56.6#



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

