

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010952.D
 Acq On : 18 Jul 2019 12:39
 Operator : JC/SP
 Sample : K3834-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3

Quant Time: Jul 19 01:32:07 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	206950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327519	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	303467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142380	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	110865	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	5.50	113	103202	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
50) Toluene-d8	8.71	98	391767	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	11.13	95	135614	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	

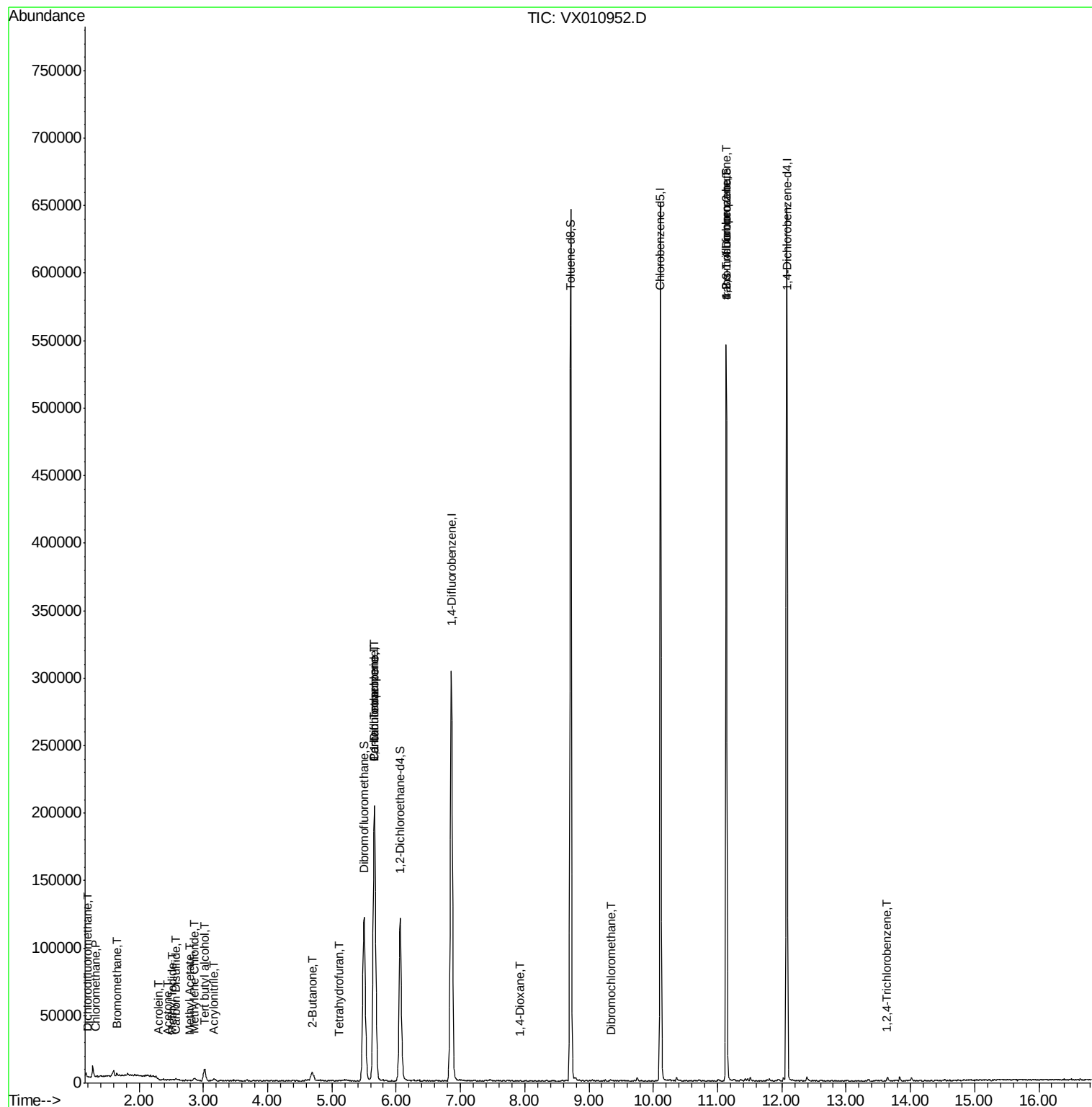
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	271	0.668	ug/l	86
3) Chloromethane	1.33	50	419	0.220	ug/l	99
5) Bromomethane	1.66	94	742	0.678	ug/l	94
10) Methyl Iodide	2.52	142	1156	0.470	ug/l #	92
11) Tert butyl alcohol	3.01	59	5055	9.859	ug/l #	73
13) Acrolein	2.29	56	275	0.928	ug/l	85
15) Acrylonitrile	3.17	53	363	0.350	ug/l #	39
16) Acetone	2.45	43	775	0.779	ug/l #	65
17) Carbon Disulfide	2.57	76	1626	0.344	ug/l #	75
18) Methyl Acetate	2.79	43	518	0.229	ug/l #	48
20) Methylene Chloride	2.85	84	698	0.331	ug/l #	77
25) 2-Butanone	4.70	43	769	0.539	ug/l #	48
29) Tetrahydrofuran	5.11	42	238	0.263	ug/l #	29
36) 1,1-Dichloropropene	5.66	75	13729	5.103	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19285	6.879	ug/l #	17
49) 1,4-Dioxane	7.93	88	19	0.308	ug/l #	1
60) Dibromochloromethane	9.35	129	121	2.573	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67760	26.373	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67760	65.478	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	741	0.240	ug/l	88

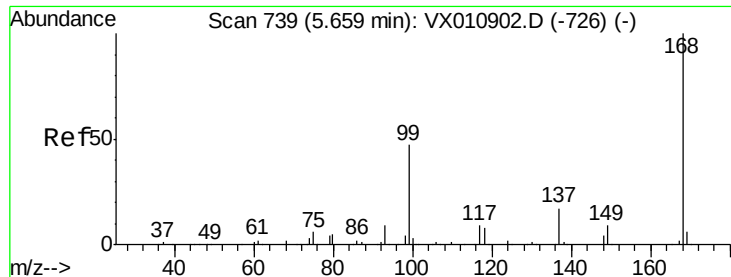
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

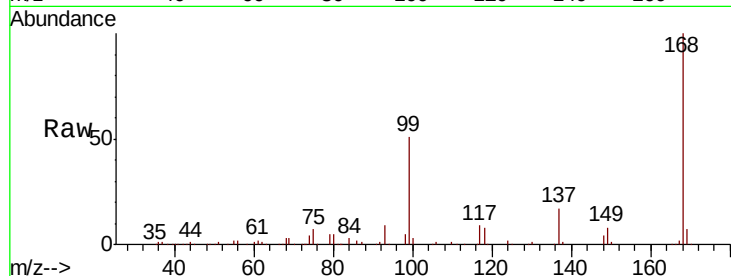
TB-3

Tot Ion:168 Resp: 206950

Ion Ratio Lower Upper

168 100

99 50.7 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

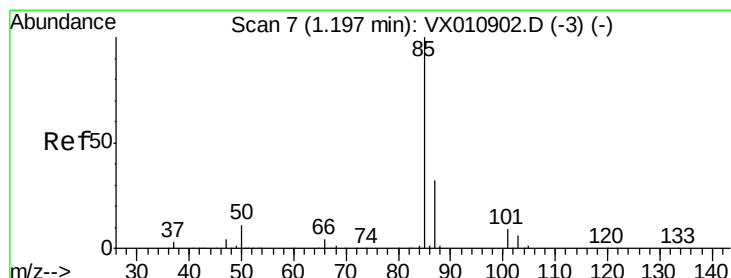
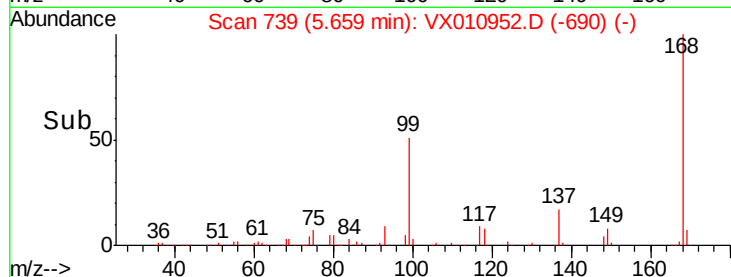
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.668 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX010952.D

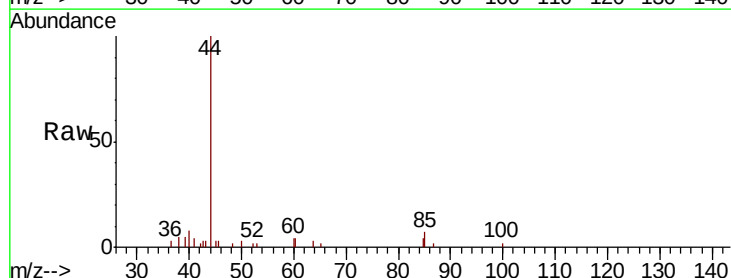
Acq: 18 Jul 2019 12:39

Tgt Ion: 85 Resp: 271

Ion Ratio Lower Upper

85 100

87 24.2 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

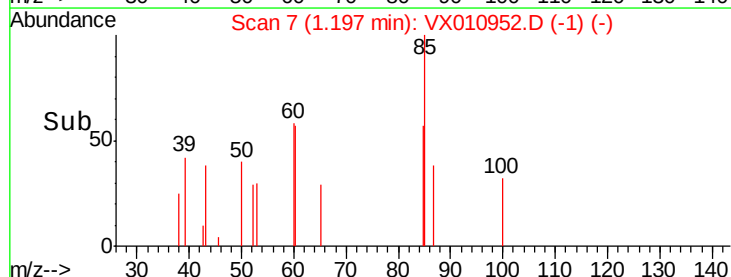
300

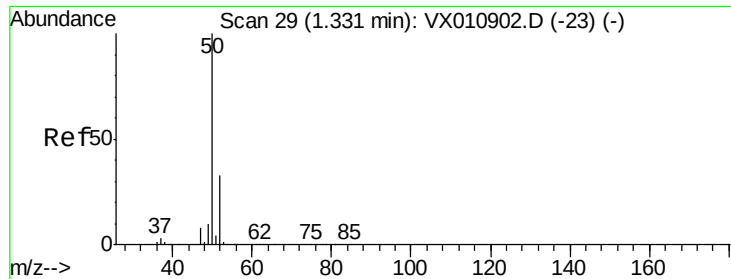
200

100

0

Time--> 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.220 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

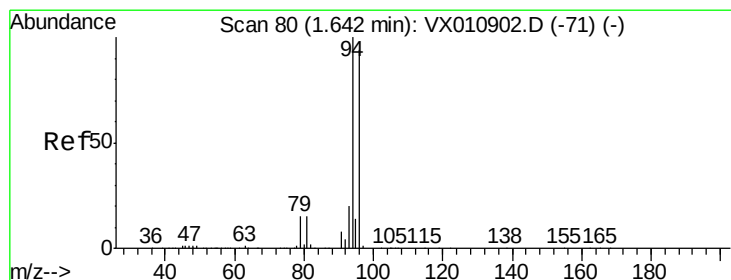
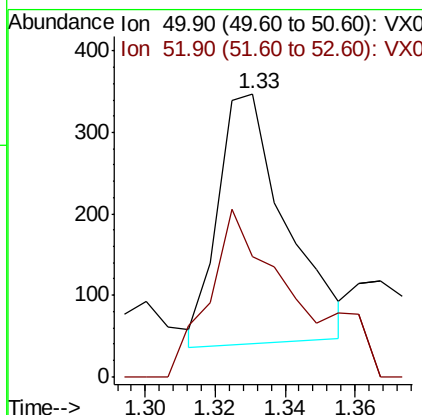
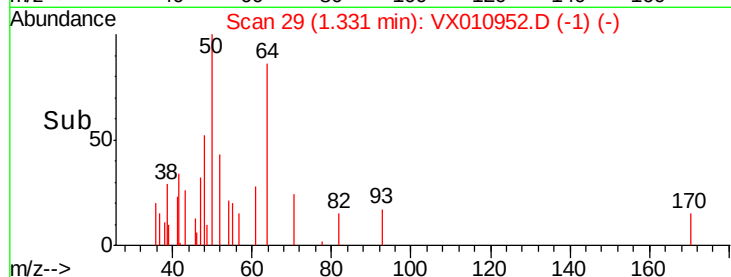
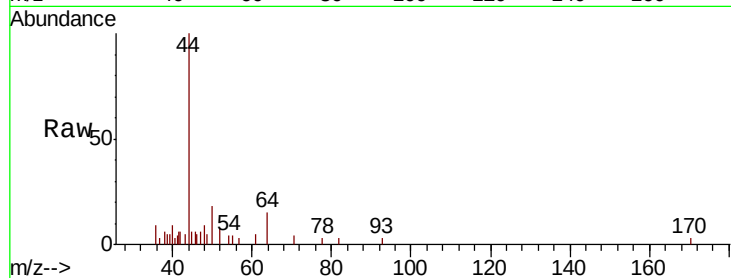
TB-3

Tot Ion: 50 Resp: 419

Ion Ratio Lower Upper

50 100

52 33.3 26.4 39.6



#5

Bromomethane

Concen: 0.678 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010952.D

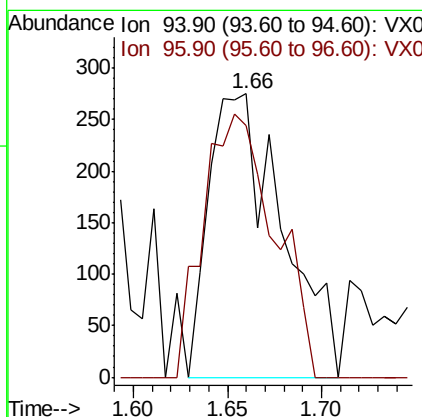
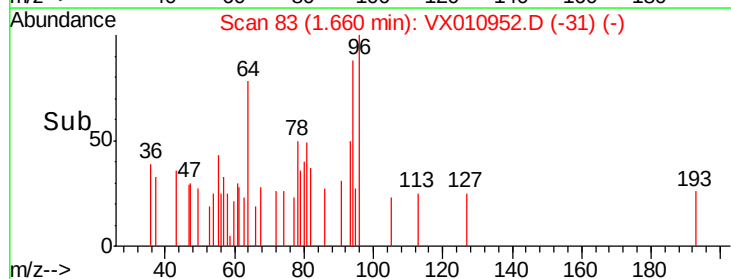
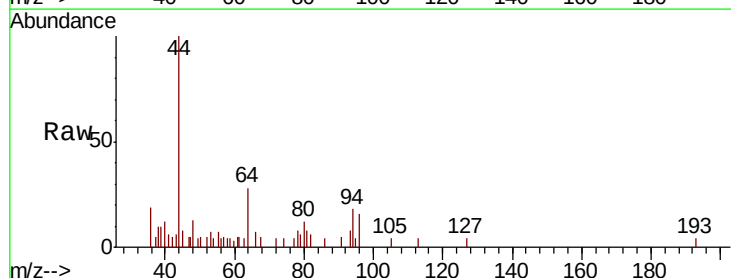
Acq: 18 Jul 2019 12:39

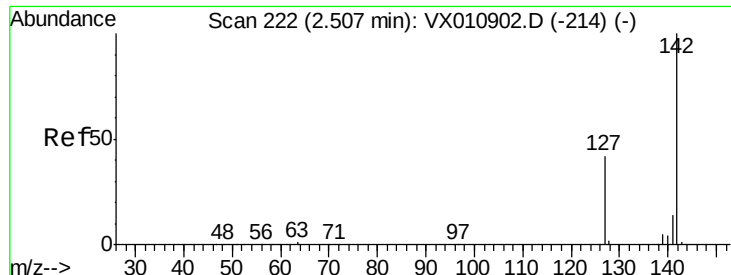
Tgt Ion: 94 Resp: 742

Ion Ratio Lower Upper

94 100

96 88.7 75.6 113.4

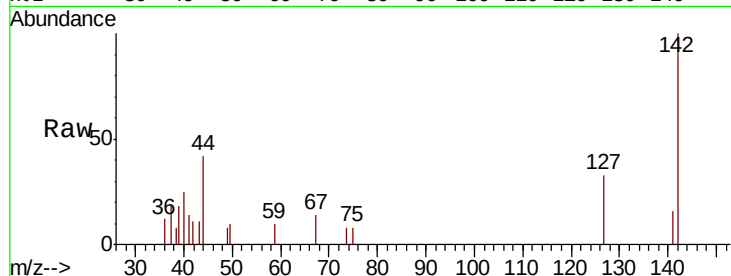




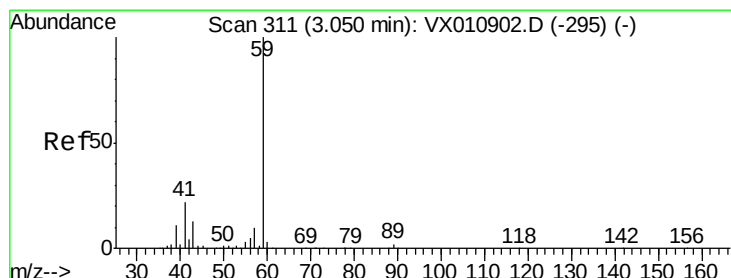
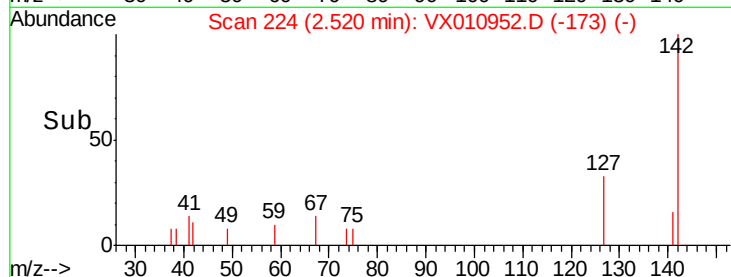
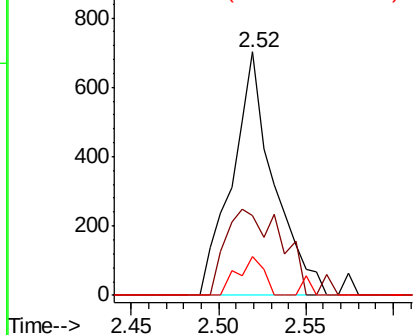
#10
Methvl Iodide
Concen: 0.470 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010952.D
Acq: 18 Jul 2019 12:39

Instrument :
MSVOA_X
ClientSampleId :
TB-3

Tot Ion:142 Resp: 1156
Ion Ratio Lower Upper
142 100
127 47.2 34.2 51.4
141 9.9 11.7 17.5#

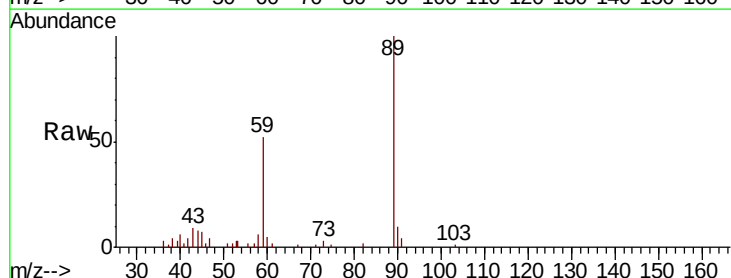


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

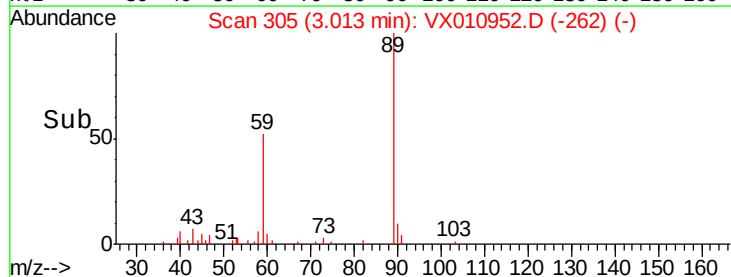
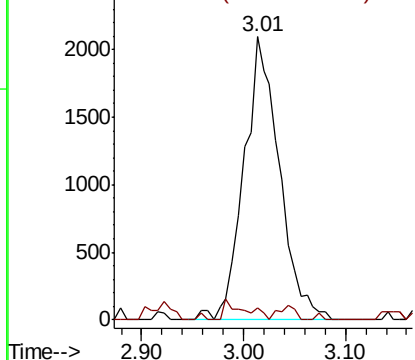


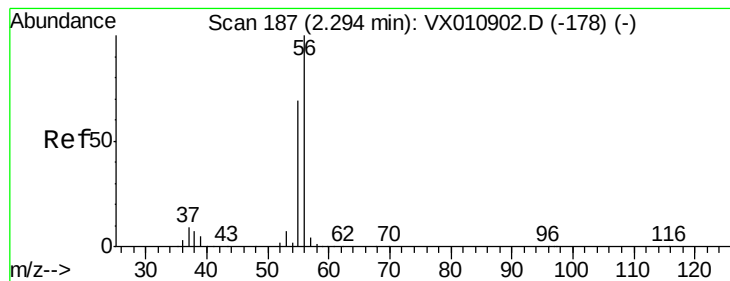
#11
Tert butyl alcohol
Concen: 9.859 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010952.D
Acq: 18 Jul 2019 12:39

Tgt Ion: 59 Resp: 5055
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



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





#13

Acrolein

Concen: 0.928 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

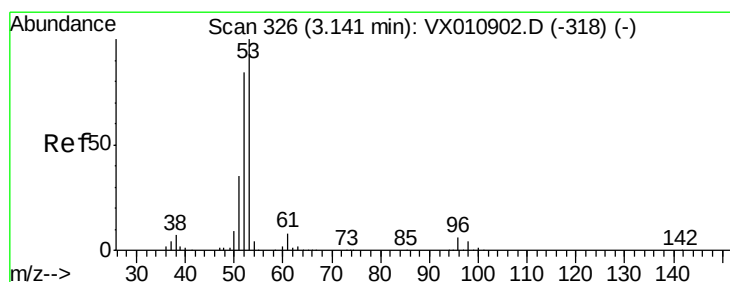
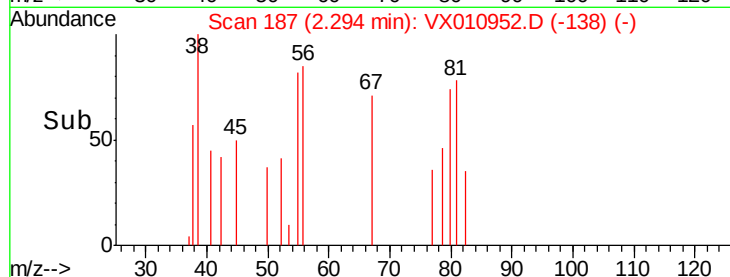
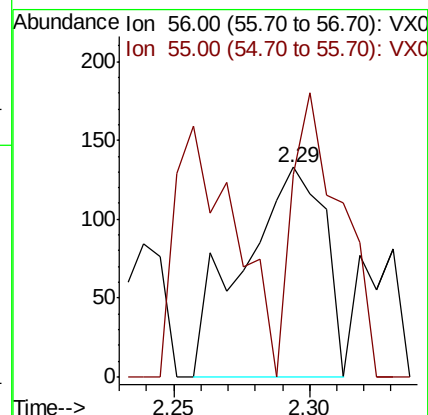
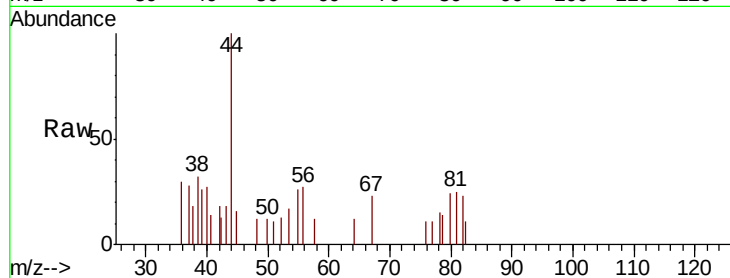
TB-3

Tot Ion: 56 Resp: 275

Ion Ratio Lower Upper

56 100

55 82.2 55.9 83.9



#15

Acrylonitrile

Concen: 0.350 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

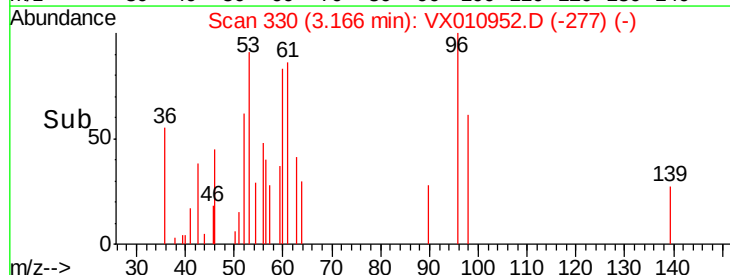
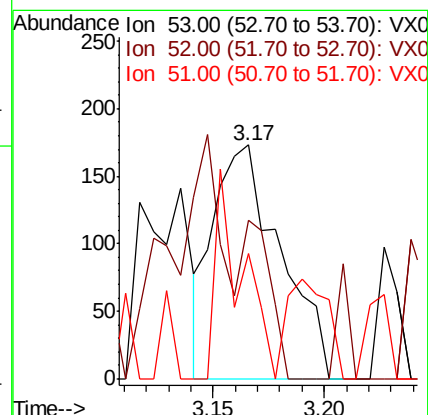
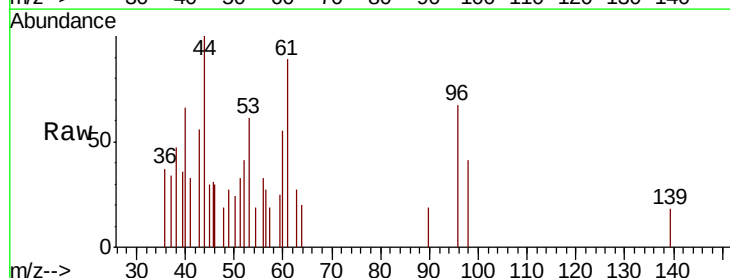
Tgt Ion: 53 Resp: 363

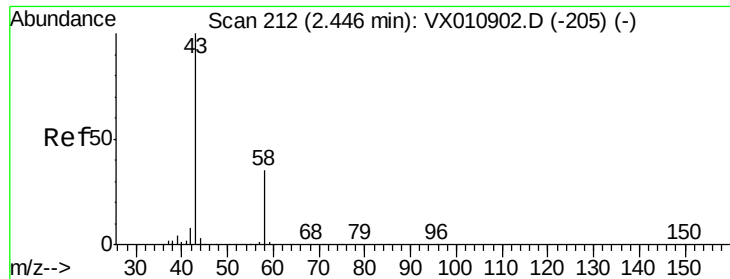
Ion Ratio Lower Upper

53 100

52 28.4 66.5 99.7#

51 0.0 28.2 42.4#





#16

Acetone

Concen: 0.779 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampleId :

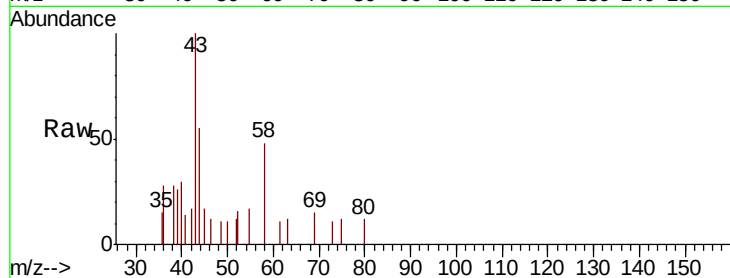
TB-3

Tot Ion: 43 Resp: 775

Ion Ratio Lower Upper

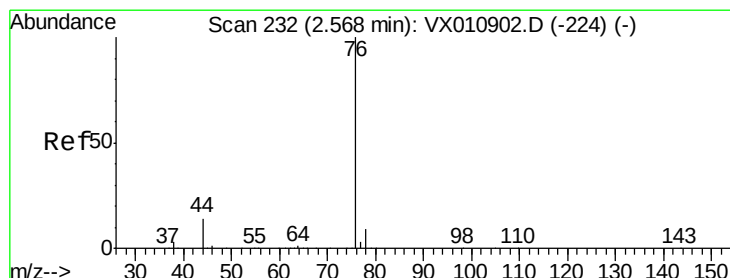
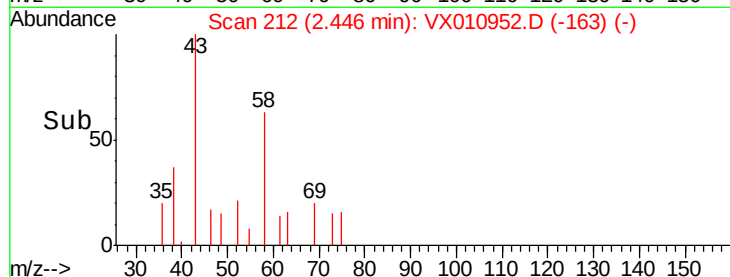
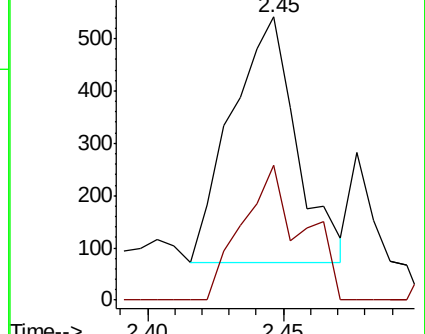
43 100

58 54.8 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.344 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010952.D

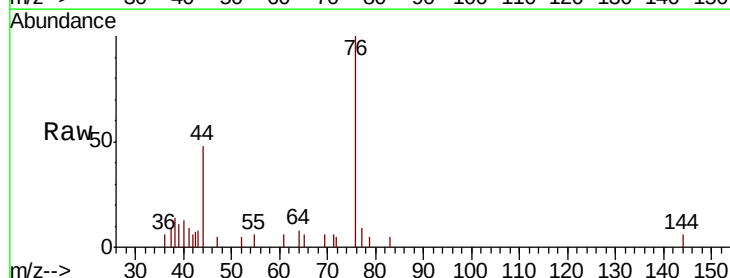
Acq: 18 Jul 2019 12:39

Tgt Ion: 76 Resp: 1626

Ion Ratio Lower Upper

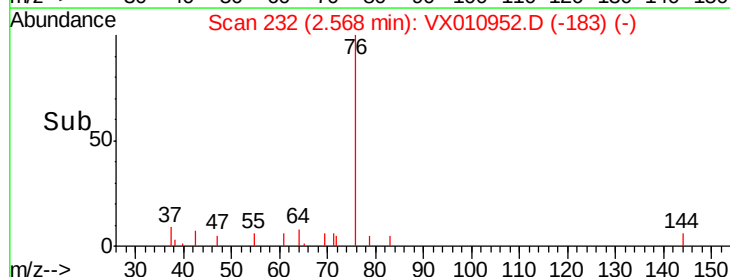
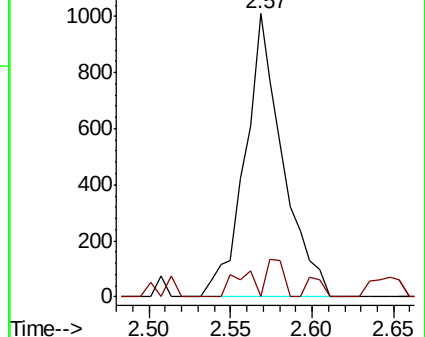
76 100

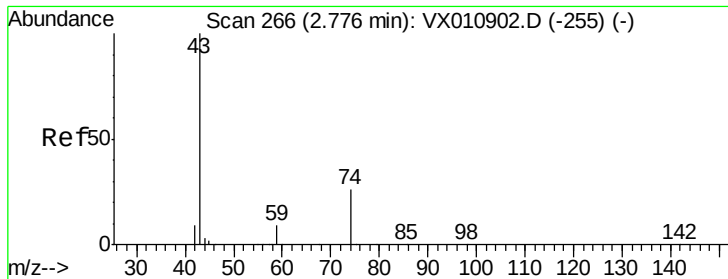
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#18

Methyl Acetate

Concen: 0.229 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

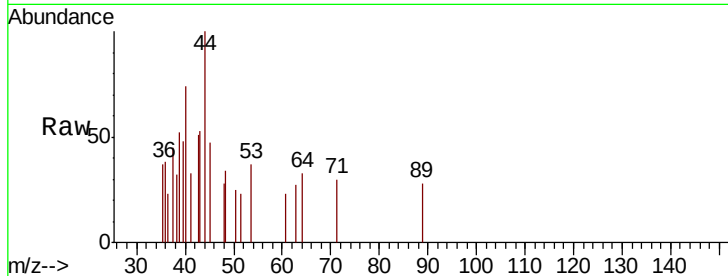
TB-3

Tot Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

74 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

250

200

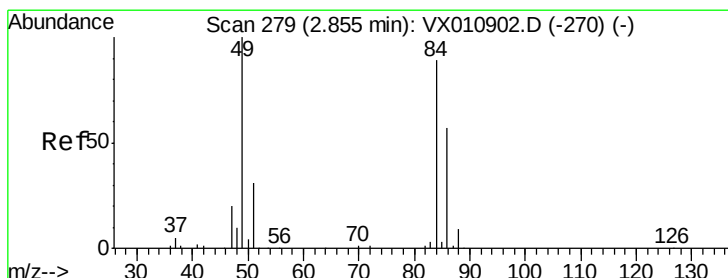
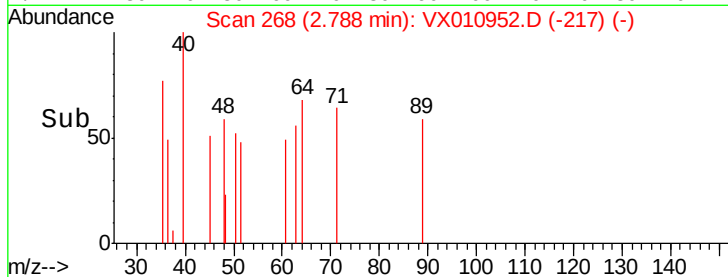
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 0.331 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Tgt Ion: 84 Resp: 698

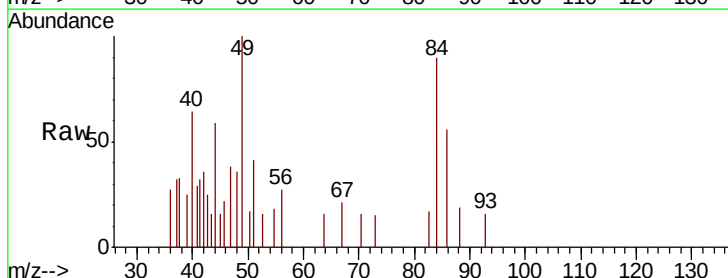
Ion Ratio Lower Upper

84 100

49 74.6 89.9 134.9#

51 45.3 27.8 41.6#

86 62.4 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

1000

800

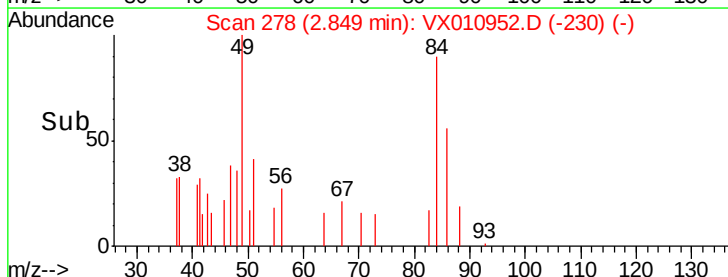
600

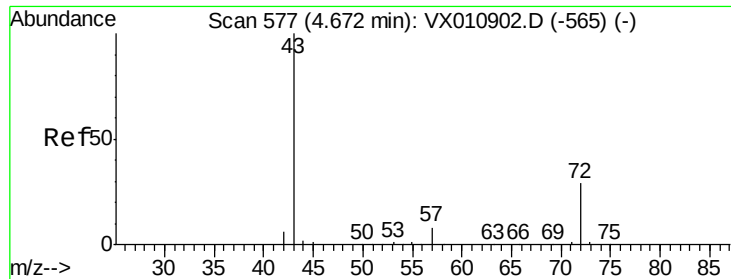
400

200

0

Time-->





#25

2-Butanone

Concen: 0.539 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

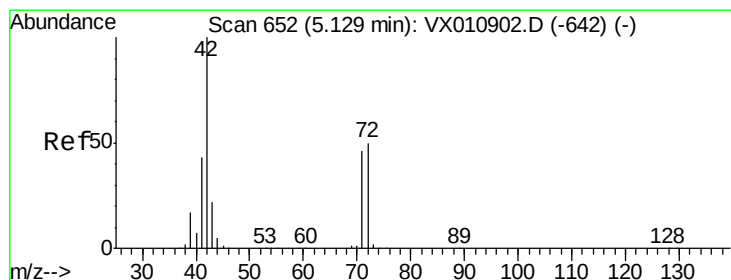
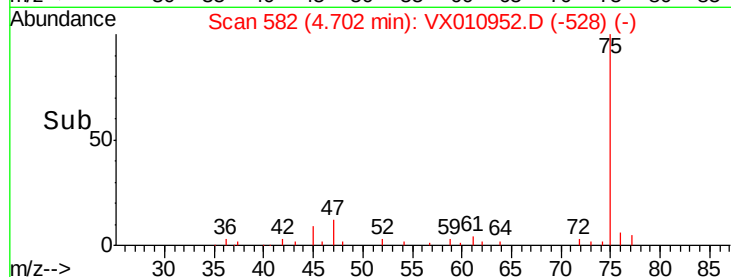
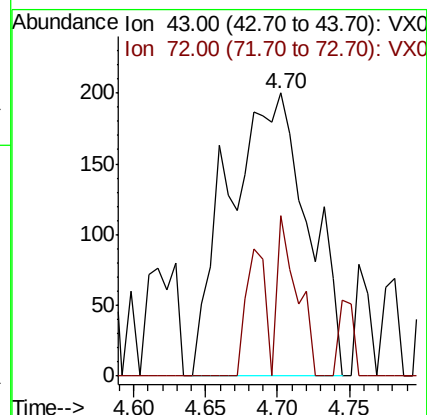
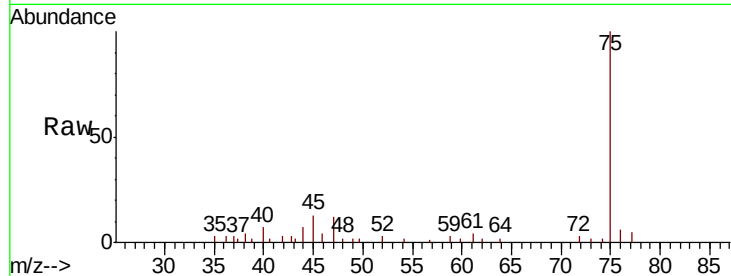
TB-3

Tot Ion: 43 Resp: 769

Ion Ratio Lower Upper

43 100

72 56.5 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.263 ug/l

RT: 5.11 min Scan# 649

Delta R.T. -0.02 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

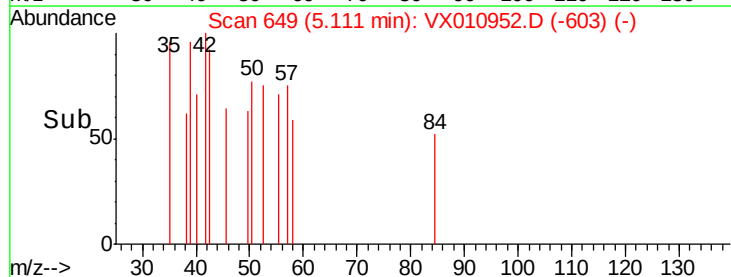
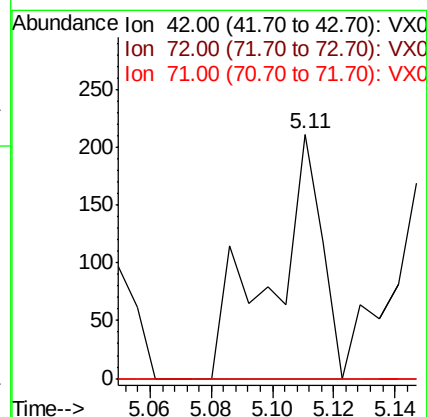
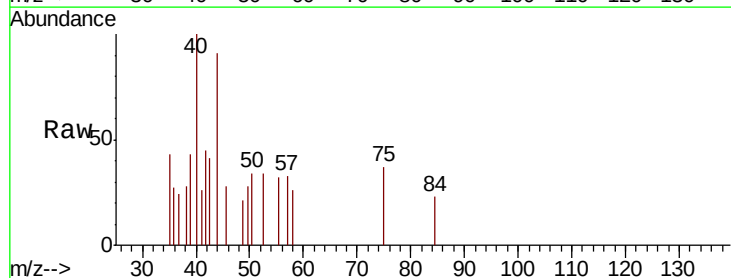
Tgt Ion: 42 Resp: 238

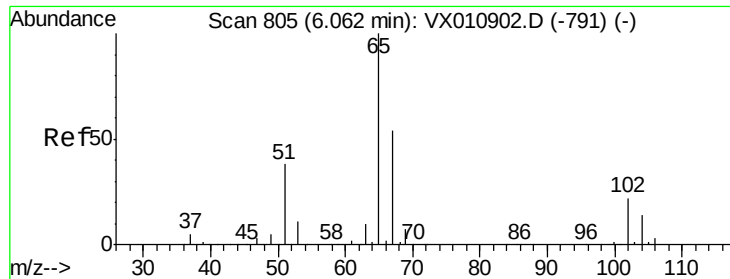
Ion Ratio Lower Upper

42 100

72 0.0 39.8 59.8#

71 0.0 37.0 55.4#

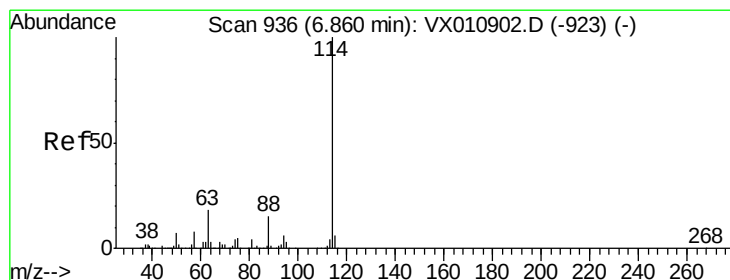
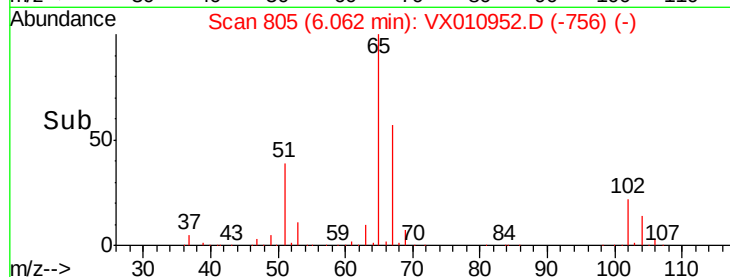
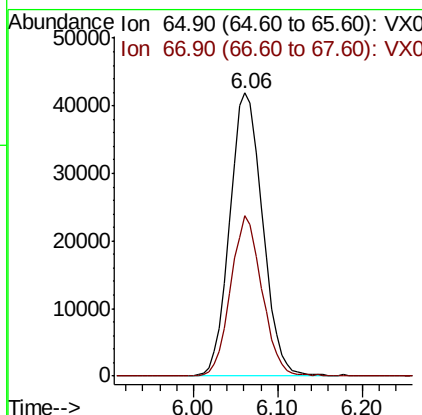
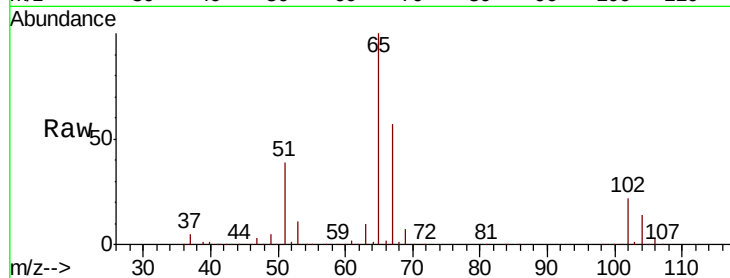




#33
 1,2-Dichloroethane-d4
 Concen: 50.356 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010952.D
 Acq: 18 Jul 2019 12:39

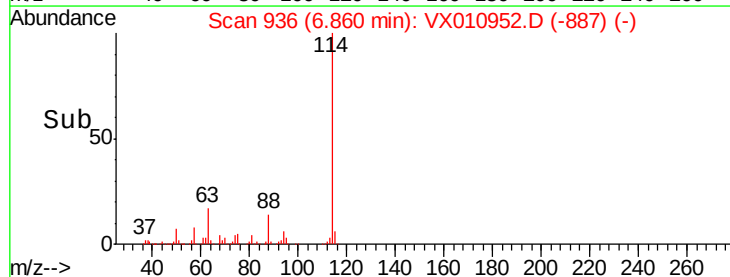
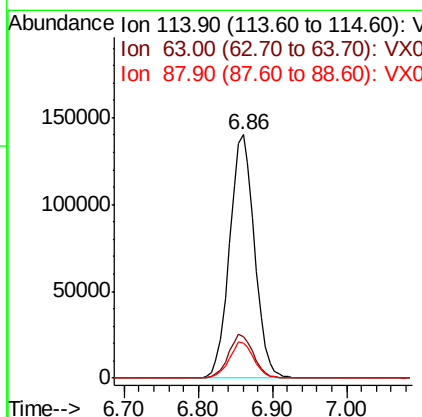
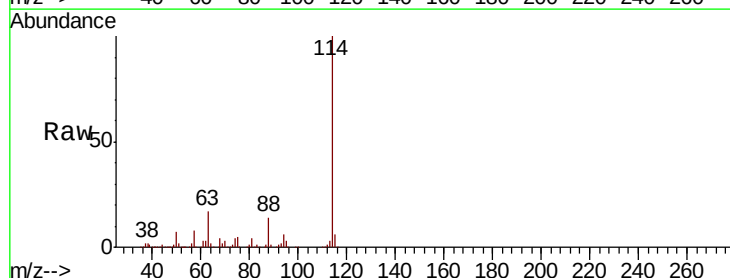
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3

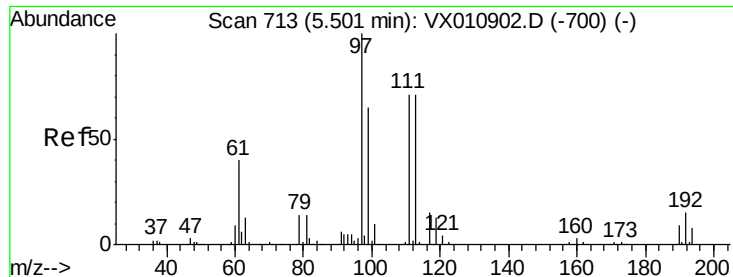
Tot Ion: 65 Resp: 110865
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010952.D
 Acq: 18 Jul 2019 12:39

Tgt Ion: 114 Resp: 327519
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 35.6
 88 14.2 0.0 29.8

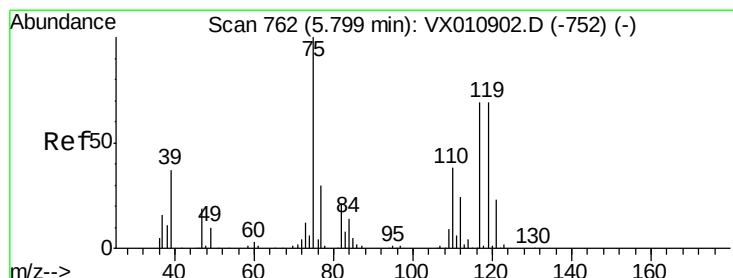
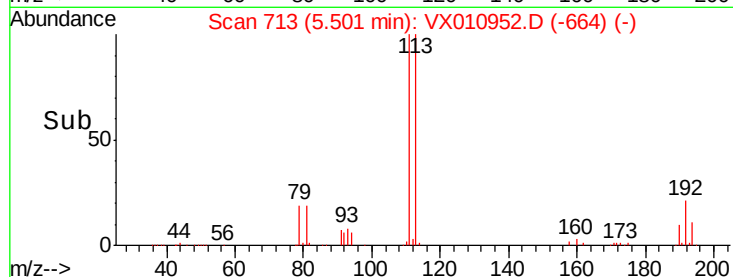
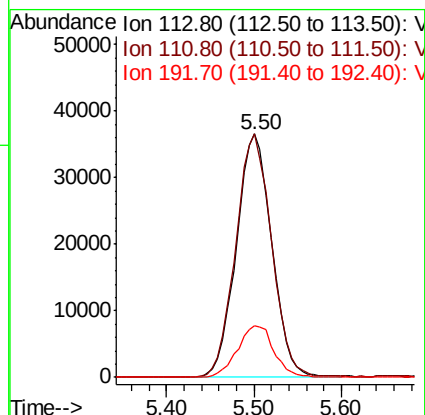
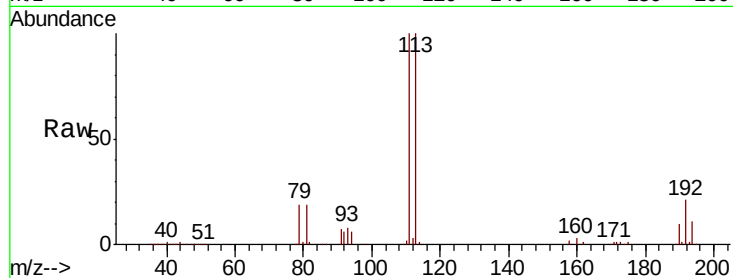




#35
 Dibromofluoromethane
 Concen: 49.644 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010952.D
 Acq: 18 Jul 2019 12:39

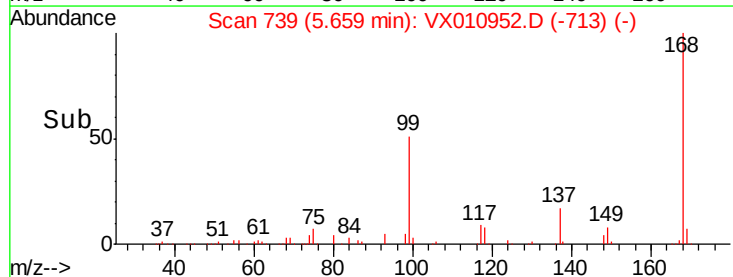
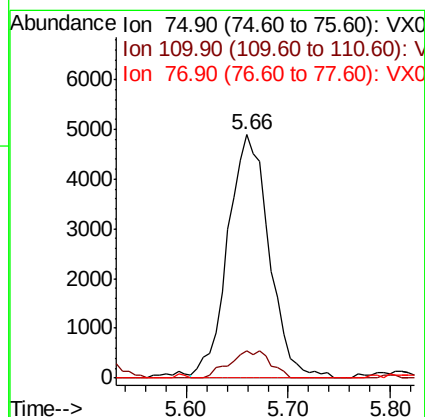
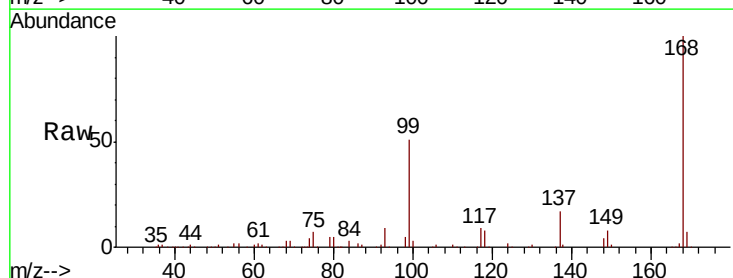
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3

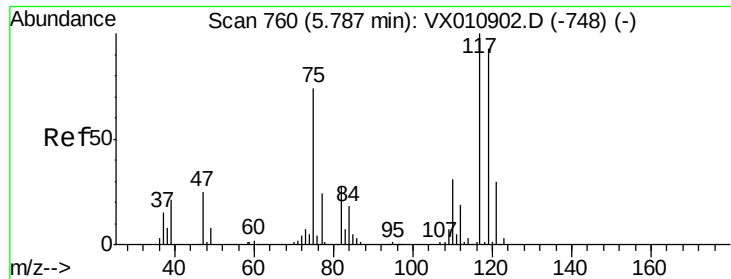
Tot Ion:113 Resp: 103202
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.3 123.5
 192 21.5 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.103 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010952.D
 Acq: 18 Jul 2019 12:39

Tgt Ion: 75 Resp: 13729
 Ion Ratio Lower Upper
 75 100
 110 11.1 19.9 59.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.879 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

TB-3

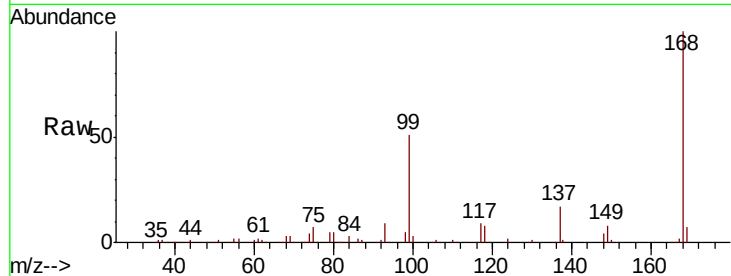
Tot Ion:117 Resp: 19285

Ion Ratio Lower Upper

117 100

119 5.0 74.2 111.2#

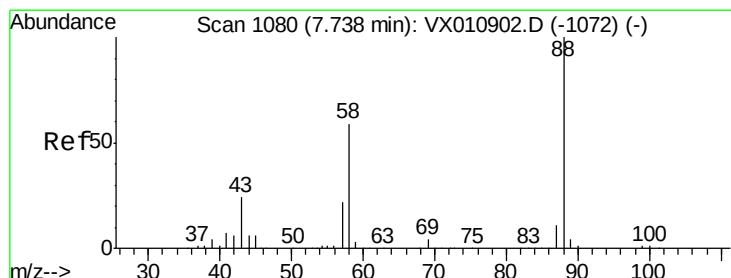
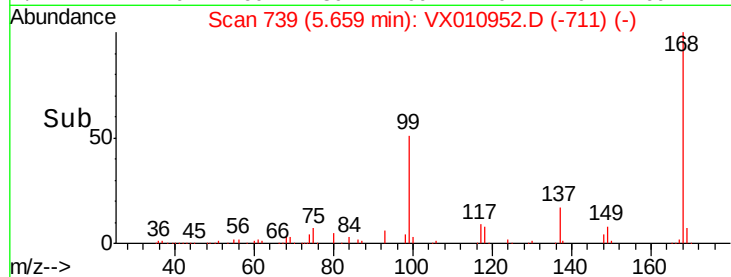
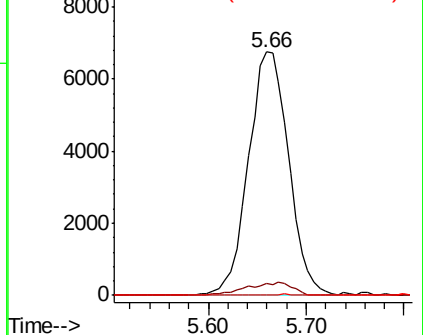
121 0.0 24.2 36.2#



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: 0.308 ug/l

RT: 7.93 min Scan# 1112

Delta R.T. 0.20 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

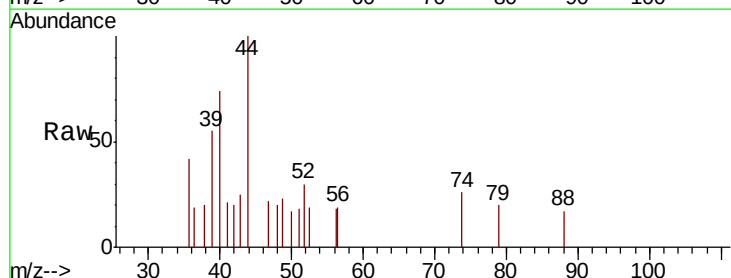
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1663.2 22.9 34.3#

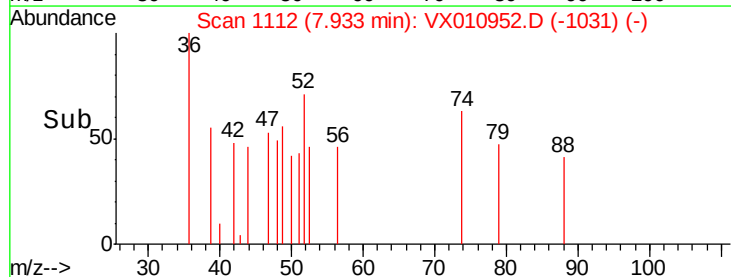
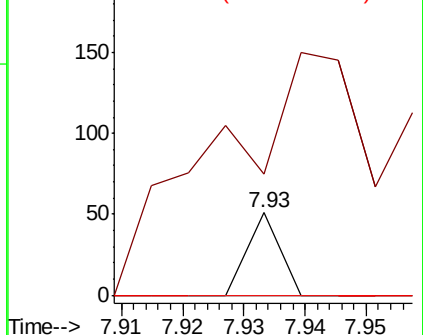
58 0.0 49.8 74.8#

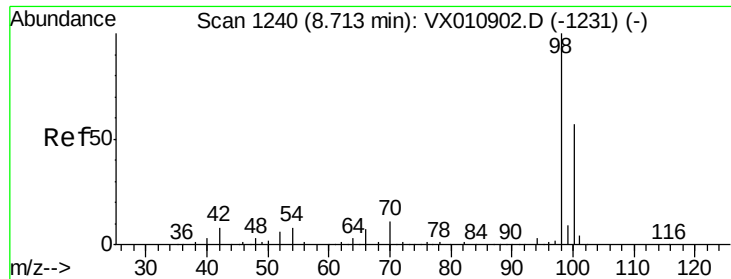


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.246 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampleId :

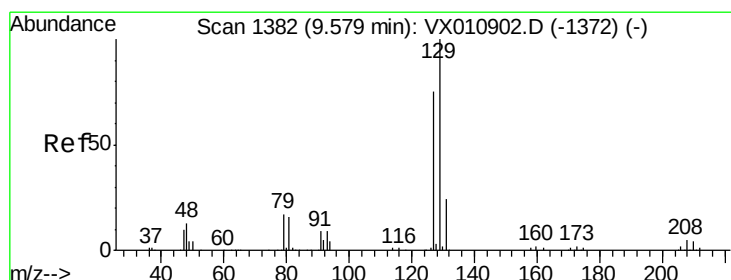
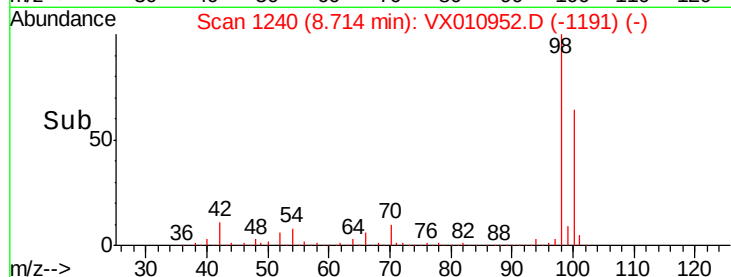
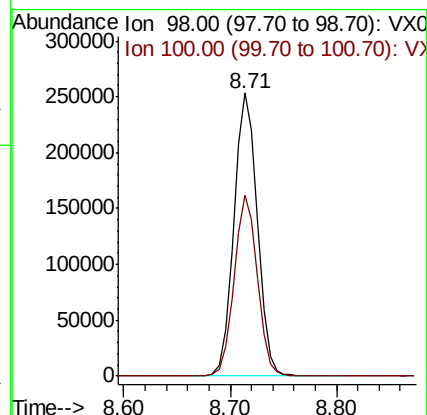
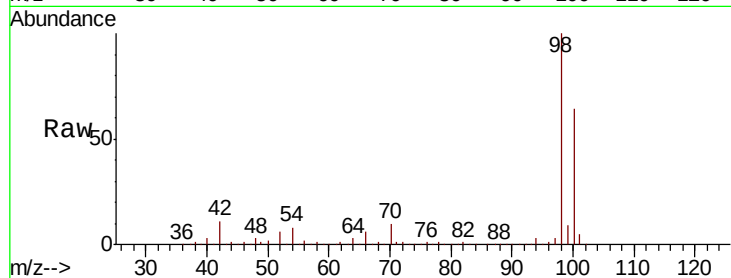
TB-3

Tot Ion: 98 Resp: 391767

Ion Ratio Lower Upper

98 100

100 63.3 50.6 75.8



#60

Dibromochloromethane

Concen: 2.573 ug/l

RT: 9.35 min Scan# 1345

Delta R.T. -0.23 min

Lab File: VX010952.D

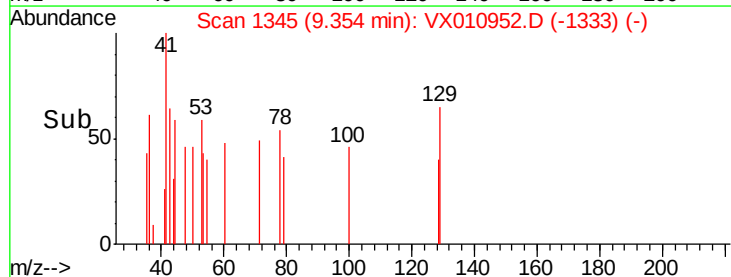
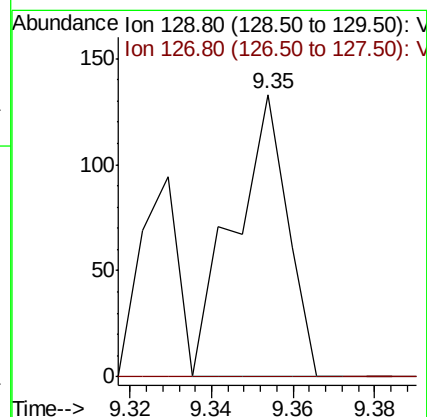
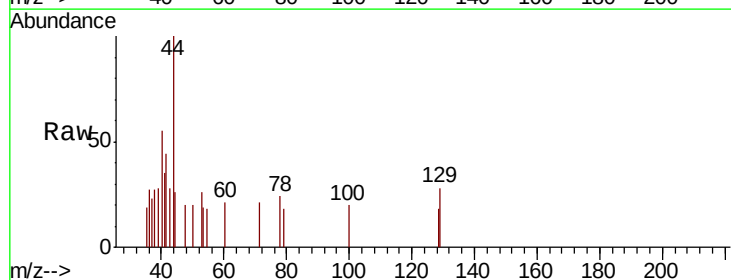
Acq: 18 Jul 2019 12:39

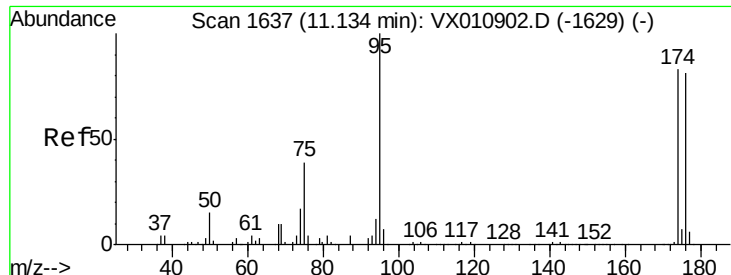
Tgt Ion: 129 Resp: 121

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 47.320 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampled :

TB-3

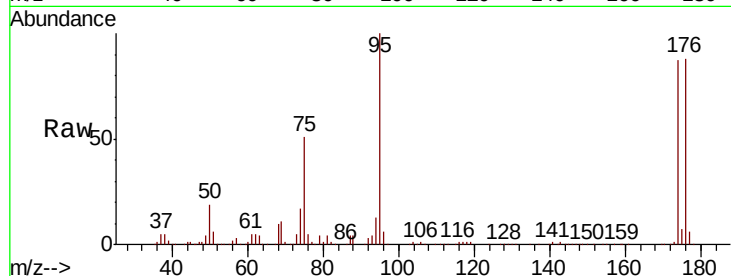
Tot Ion: 95 Resp: 135614

Ion Ratio Lower Upper

95 100

174 91.4 0.0 180.6

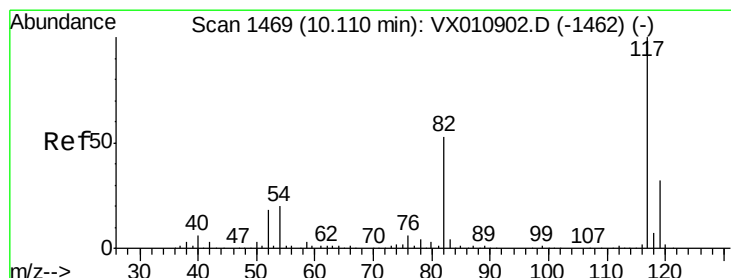
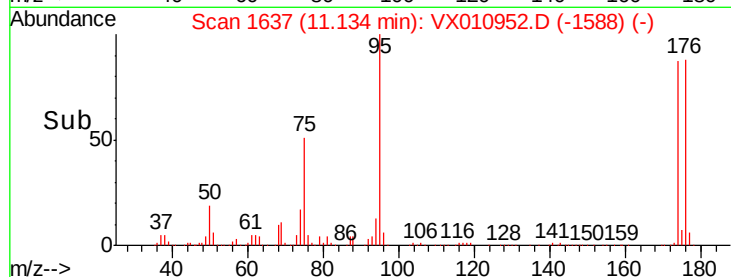
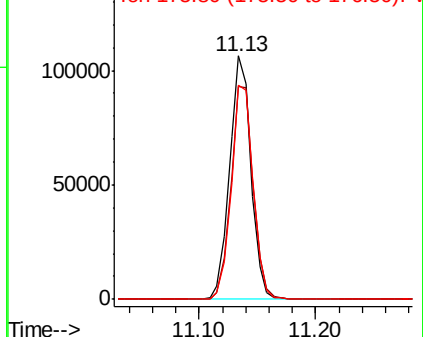
176 89.9 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010902.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX010902.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX010902.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

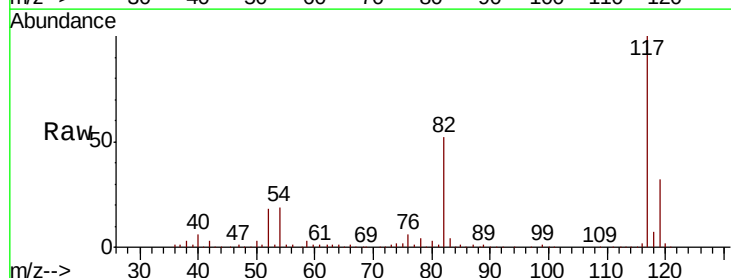
Tgt Ion: 117 Resp: 303467

Ion Ratio Lower Upper

117 100

82 52.3 42.6 63.8

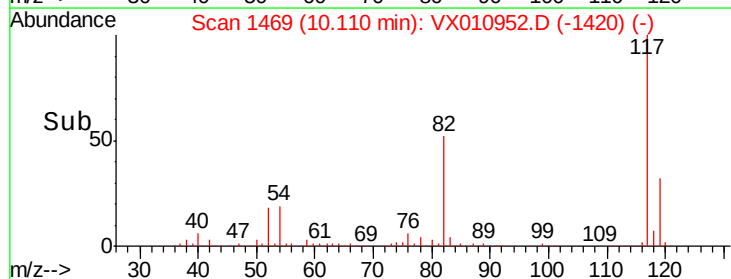
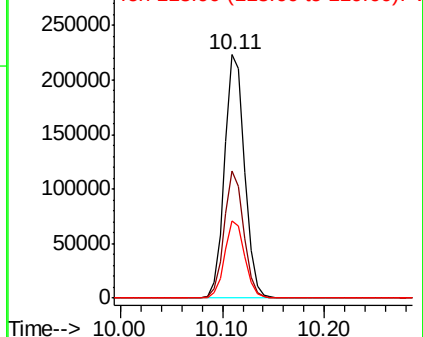
119 31.9 25.9 38.9

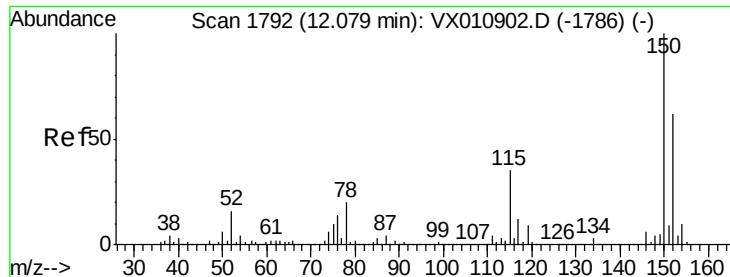


Abundance Ion 116.90 (116.60 to 117.60): VX010902.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010902.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010902.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010952.D

Acq: 18 Jul 2019 12:39

Instrument :

MSVOA_X

ClientSampleId :

TB-3

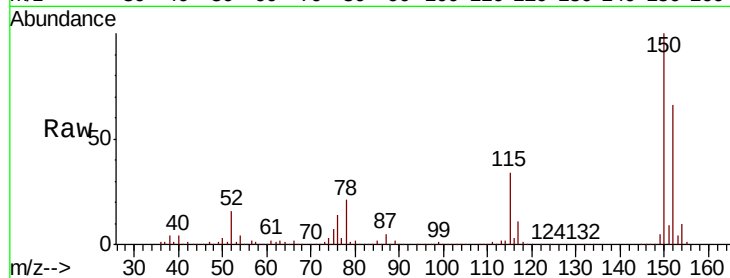
Tot Ion:152 Resp: 142380

Ion Ratio Lower Upper

152 100

115 54.0 39.7 119.1

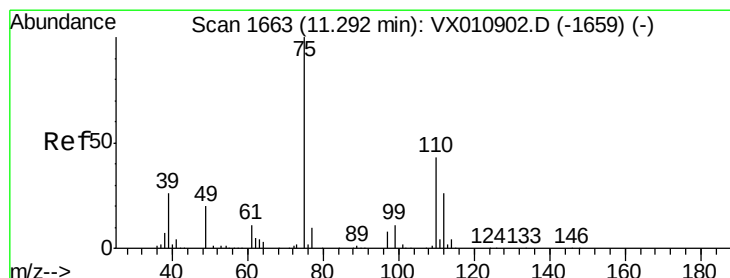
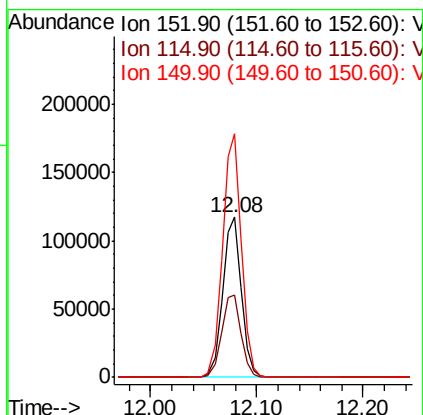
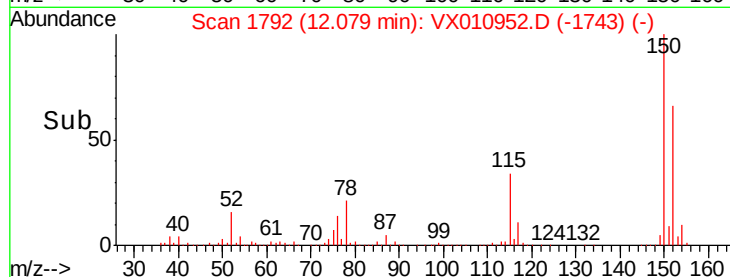
150 154.1 0.0 345.6



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: 26.373 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010952.D

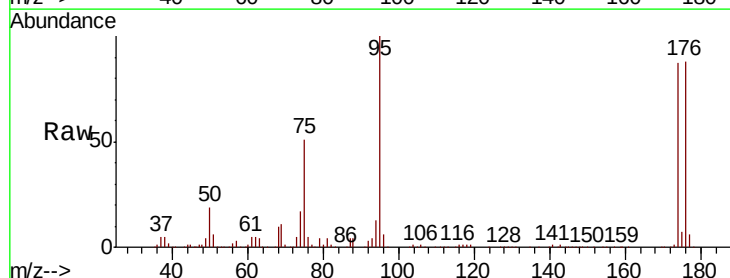
Acq: 18 Jul 2019 12:39

Tgt Ion: 75 Resp: 67760

Ion Ratio Lower Upper

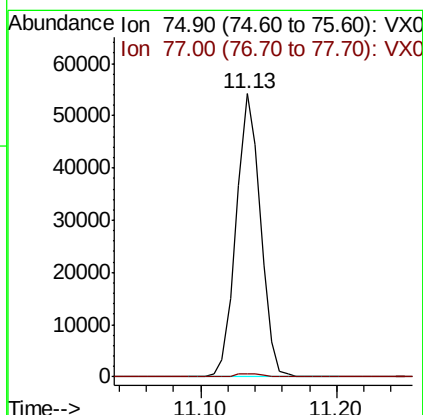
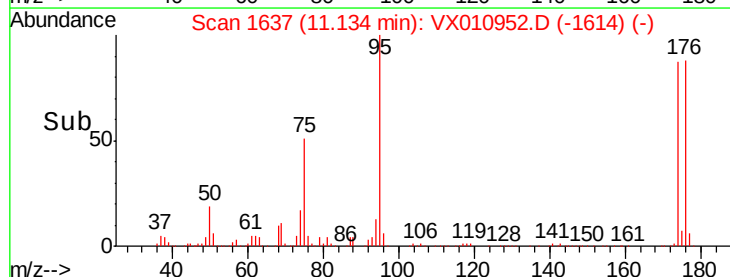
75 100

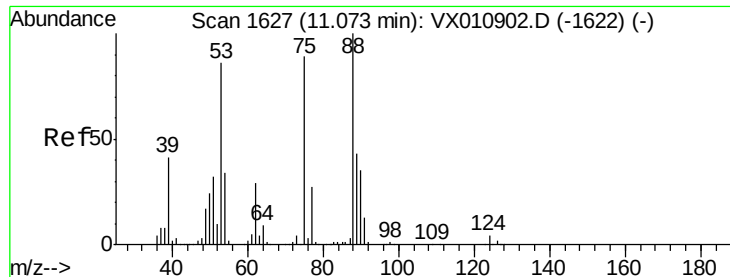
77 1.2 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

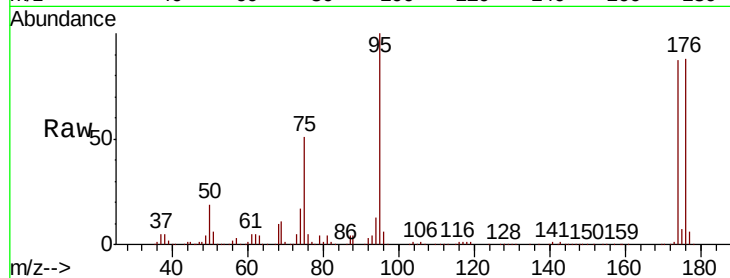




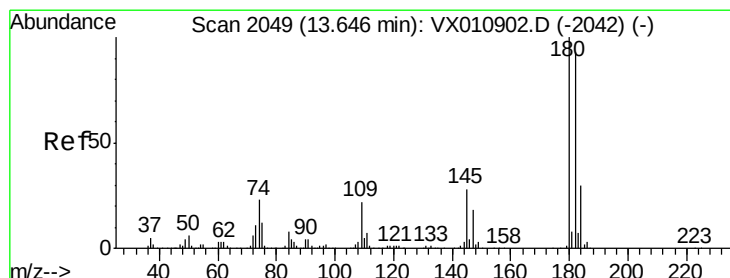
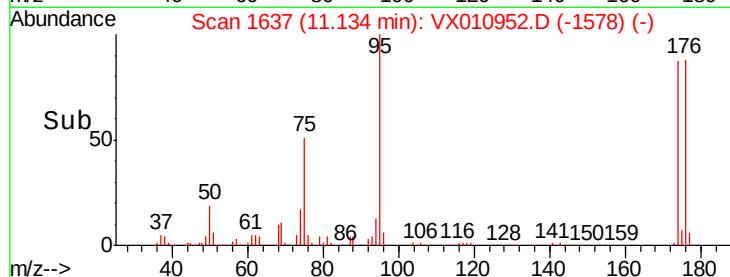
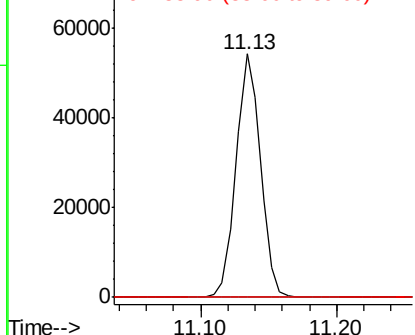
#81
trans-1,4-Dichloro-2-butene
Concen: 65.478 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010952.D
Acq: 18 Jul 2019 12:39

Instrument :
MSVOA_X
ClientSampleId :
TB-3

Tot Ion: 75 Resp: 67760
Ion Ratio Lower Upper
75 100
53 0.2 76.7 115.1#
89 0.0 38.5 57.7#

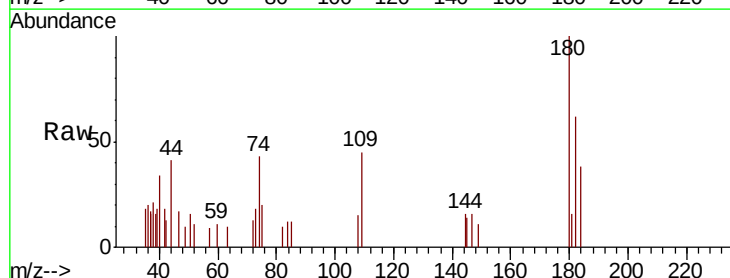


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#93
1,2,4-Trichlorobenzene
Concen: 0.240 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX010952.D
Acq: 18 Jul 2019 12:39

Tgt Ion:180 Resp: 741
Ion Ratio Lower Upper
180 100
182 82.1 47.1 141.3
145 34.5 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

