

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022619\
 Data File : VX007723.D
 Acq On : 26 Feb 2019 19:32
 Operator : JC/SP
 Sample : K1631-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z31W

Quant Time: Feb 27 00:20:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	337375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	577203	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	541310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	245124	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	213192	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
35) Dibromofluoromethane	5.51	113	193986	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	8.71	98	706330	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.13	95	239820	44.23	ug/l	0.00
Spiked Amount			Recovery	=	88.46%	

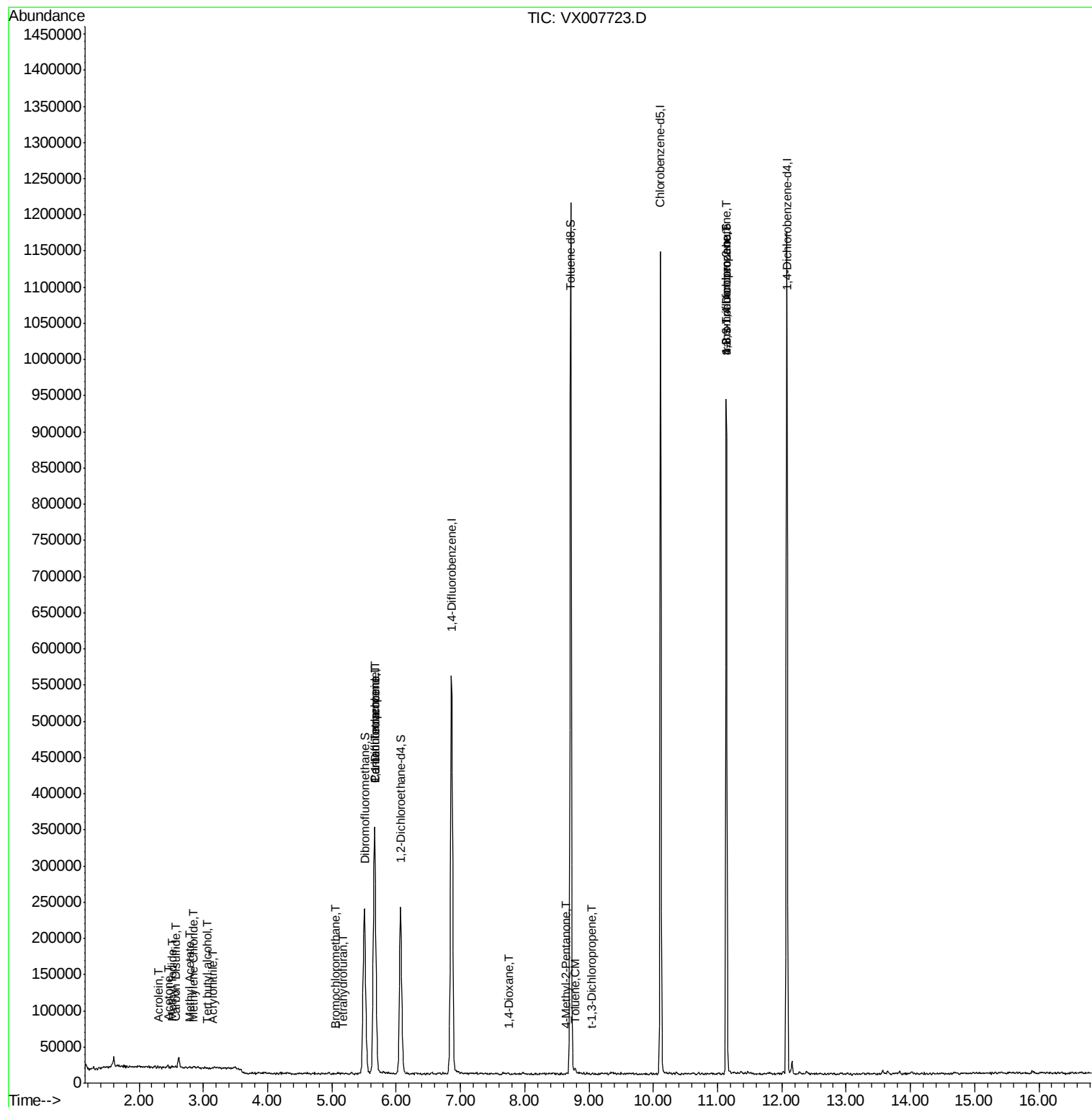
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	368	Below Cal		99
10) Methyl Iodide	2.52	142	845	0.207	ug/l #	79
11) Tert butyl alcohol	3.07	59	562	0.709	ug/l #	39
13) Acrolein	2.30	56	344	0.488	ug/l #	14
15) Acrylonitrile	3.15	53	389	0.208	ug/l #	1
16) Acetone	2.45	43	4906	2.640	ug/l	94
17) Carbon Disulfide	2.57	76	2234	0.272	ug/l #	75
18) Methyl Acetate	2.78	43	1477	0.364	ug/l #	85
20) Methylene Chloride	2.85	84	1281	0.373	ug/l #	44
28) Bromochloromethane	5.06	49	797	0.265	ug/l #	14
29) Tetrahydrofuran	5.17	42	556	0.298	ug/l #	56
36) 1,1-Dichloropropene	5.66	75	24773	4.774	ug/l #	43
38) Carbon Tetrachloride	5.66	117	31916	6.123	ug/l #	18
49) 1,4-Dioxane	7.76	88	311	3.096	ug/l #	59
51) 4-Methyl-2-Pentanone	8.65	43	1618	0.272	ug/l #	87
52) Toluene	8.79	92	2422	0.240	ug/l	79
53) t-1,3-Dichloropropene	9.04	75	327	2.852	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	117529	22.494	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	117529	59.659	ug/l #	9

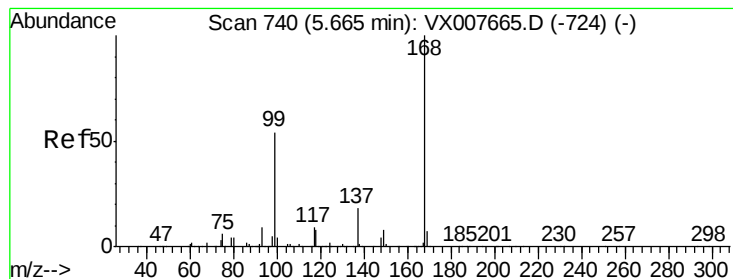
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 27 00:20:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

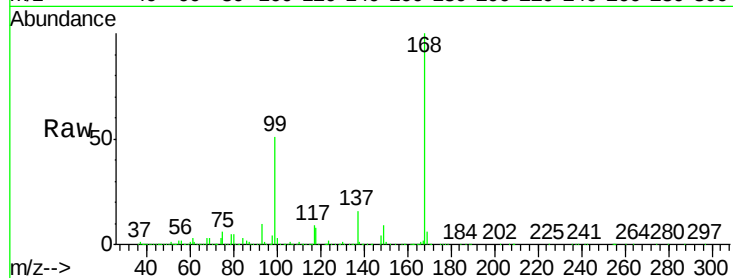
Z31W

Tot Ion:168 Resp: 337375

Ion Ratio Lower Upper

168 100

99 50.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

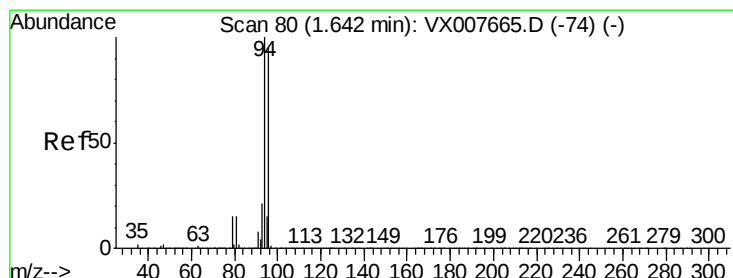
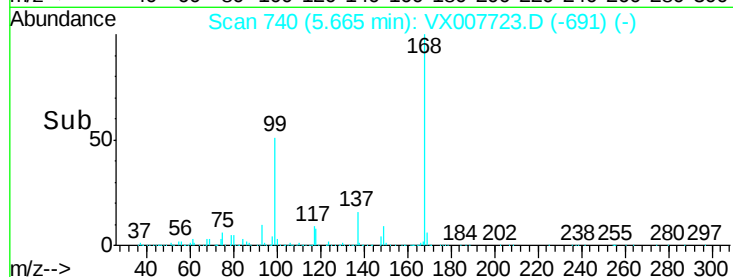
5.67

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007723.D

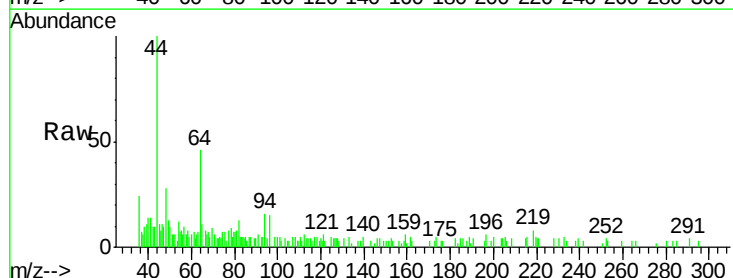
Acq: 26 Feb 2019 19:32

Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 93.5 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

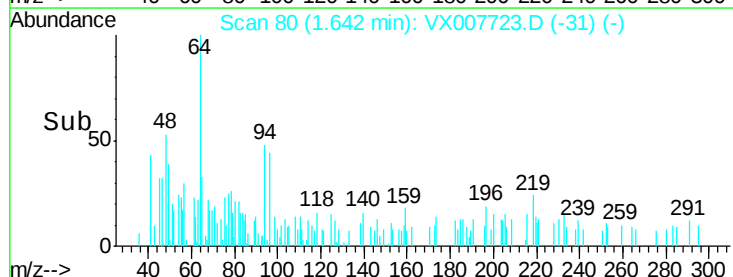
300

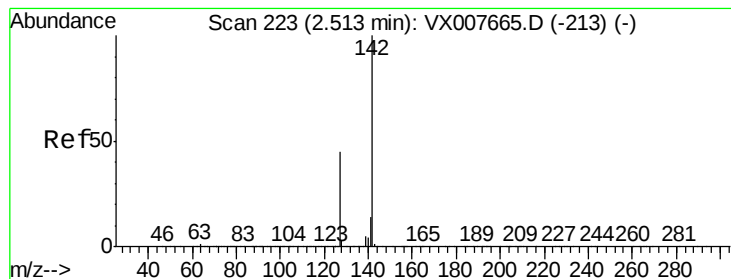
200

100

0

Time-->





#10

Methyl Iodide

Concen: 0.207 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

Z31W

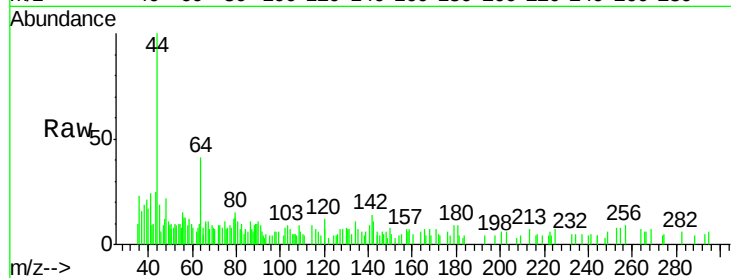
Tot Ion:142 Resp: 845

Ion Ratio Lower Upper

142 100

127 24.6 33.7 50.5#

141 14.2 11.3 16.9



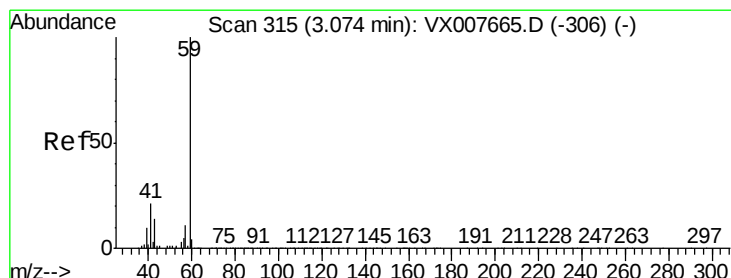
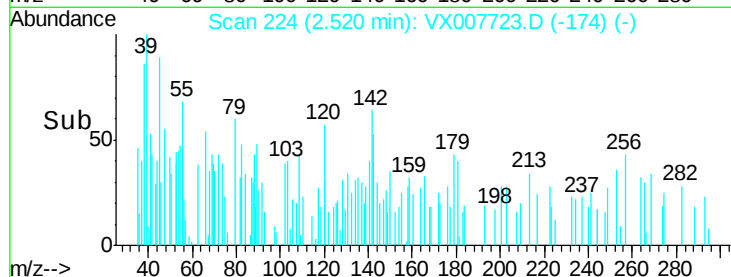
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

Time-->



#11

Tert butyl alcohol

Concen: 0.709 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX007723.D

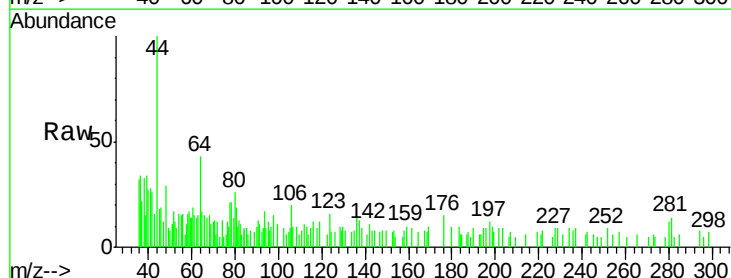
Acq: 26 Feb 2019 19:32

Tgt Ion: 59 Resp: 562

Ion Ratio Lower Upper

59 100

57 32.9 8.1 12.1#

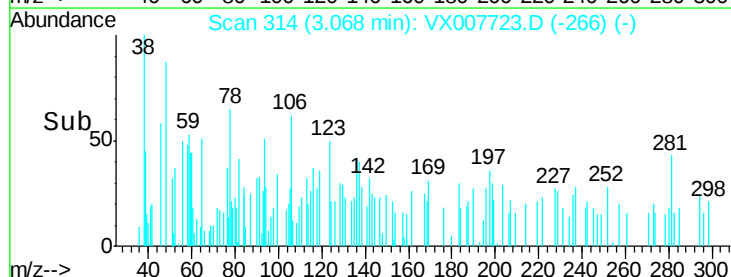


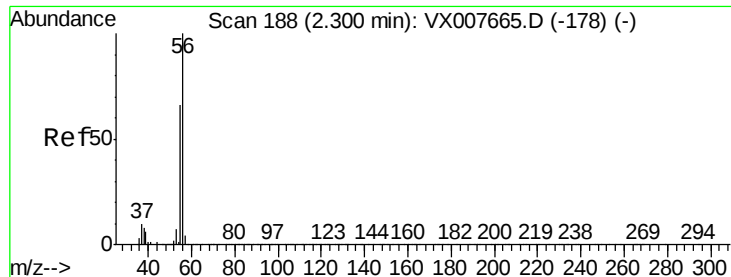
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.07

Time-->





#13

Acrolein

Concen: 0.488 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

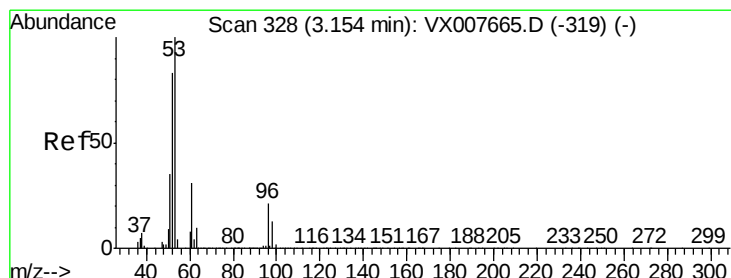
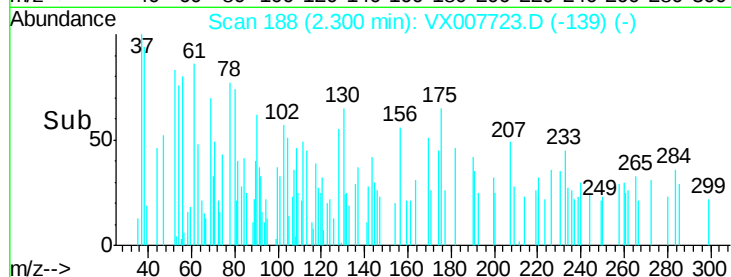
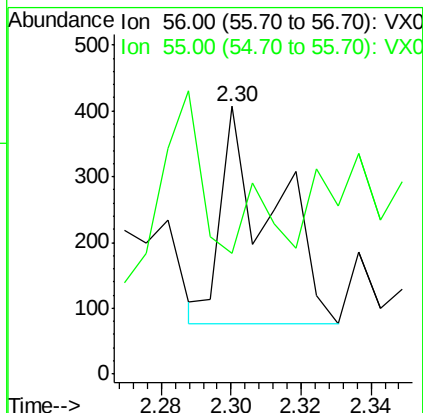
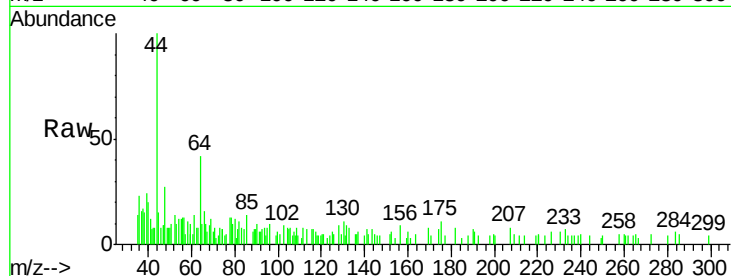
Z31W

Tot Ion: 56 Resp: 344

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 0.208 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

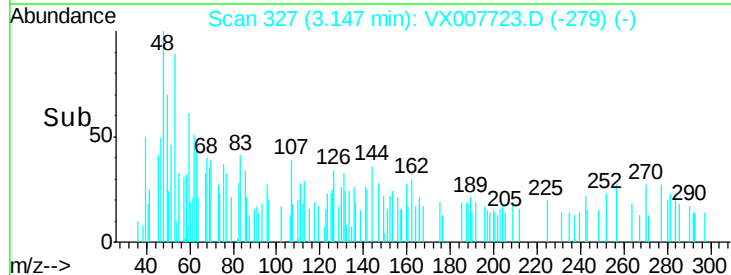
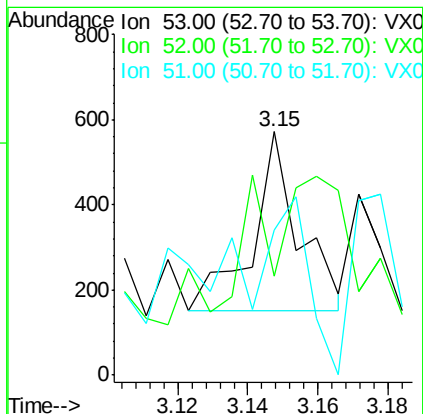
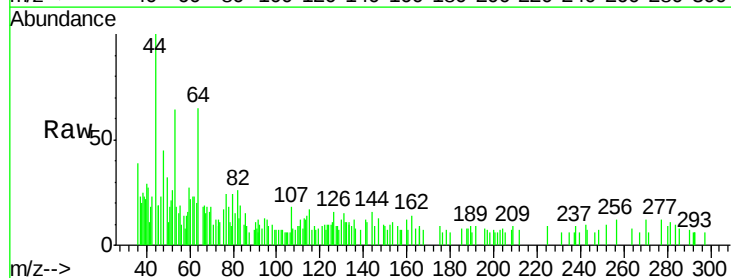
Tgt Ion: 53 Resp: 389

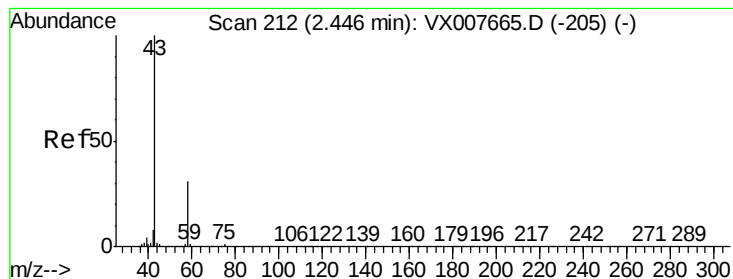
Ion Ratio Lower Upper

53 100

52 183.0 66.4 99.6#

51 84.1 28.4 42.6#





#16

Acetone

Concen: 2.640 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

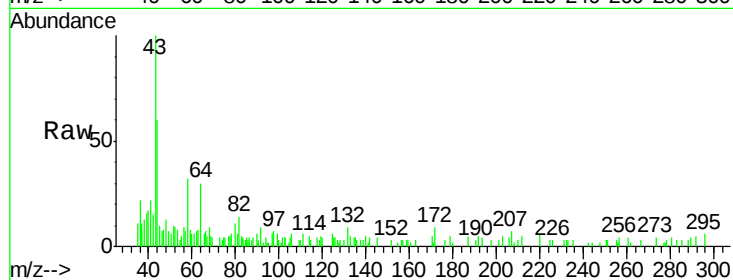
Z31W

Tot Ion: 43 Resp: 4906

Ion Ratio Lower Upper

43 100

58 27.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

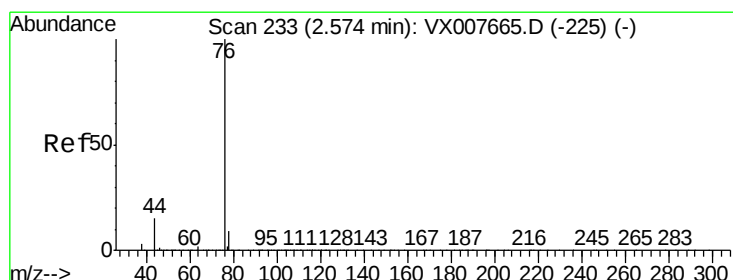
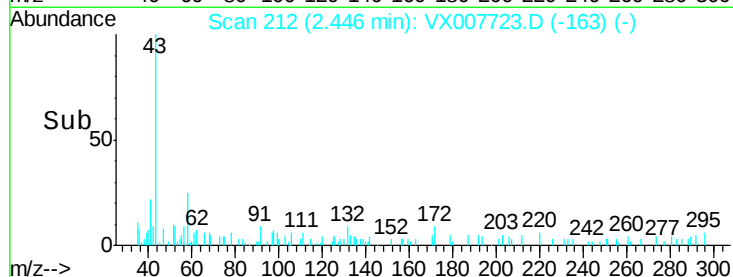
1500

1000

500

0

Time-->



#17

Carbon Disulfide

Concen: 0.272 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007723.D

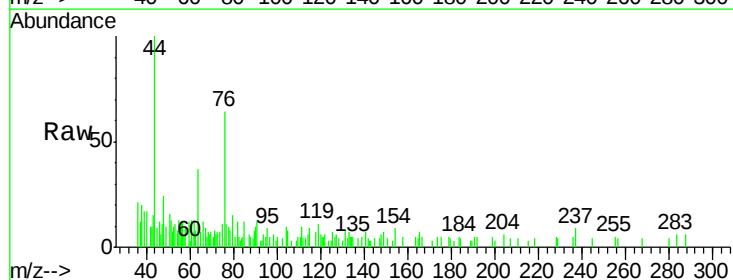
Acq: 26 Feb 2019 19:32

Tgt Ion: 76 Resp: 2234

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1200

1000

800

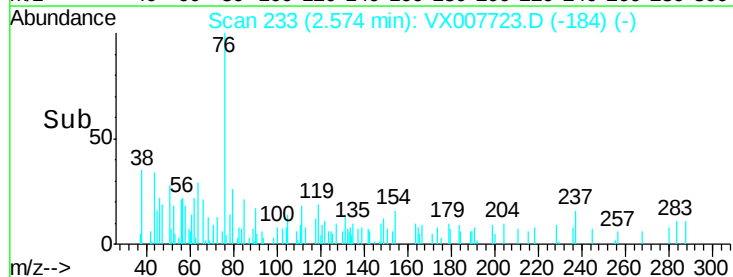
600

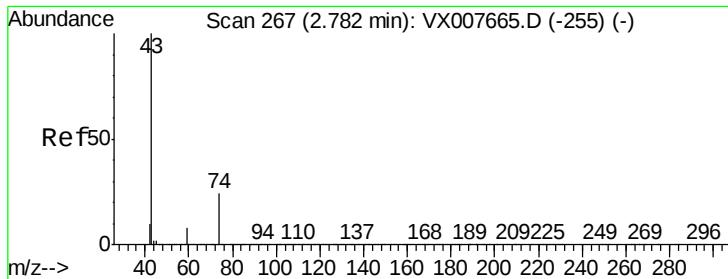
400

200

0

Time-->





#18

Methyl Acetate

Concen: 0.364 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

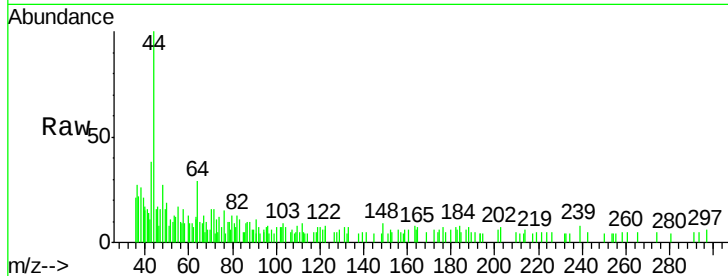
Z31W

Tot Ion: 43 Resp: 1477

Ion Ratio Lower Upper

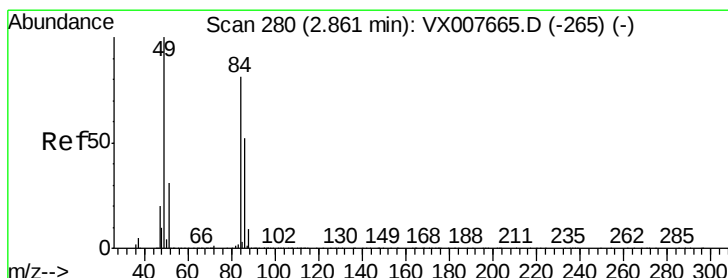
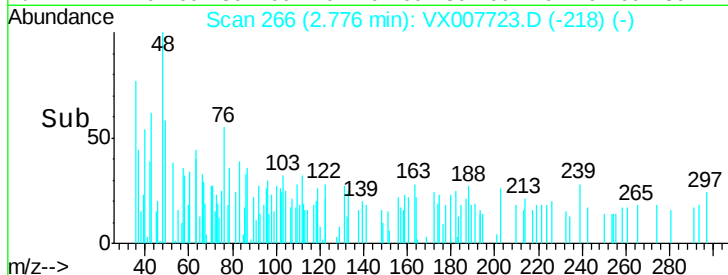
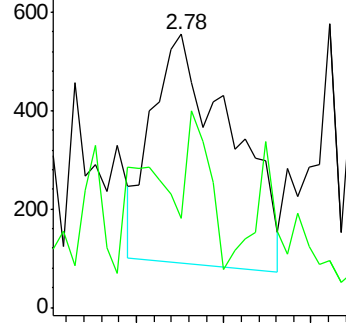
43 100

74 16.7 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.373 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Tgt Ion: 84 Resp: 1281

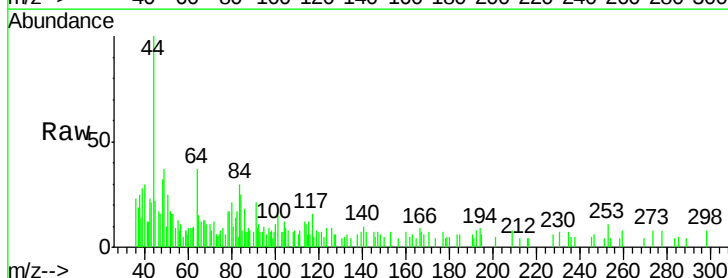
Ion Ratio Lower Upper

84 100

49 47.7 94.8 142.2#

51 15.4 29.8 44.8#

86 24.2 54.1 81.1#

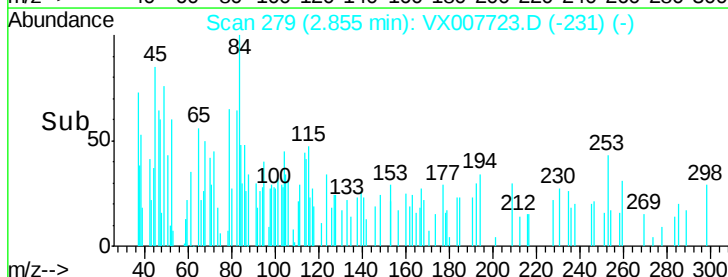
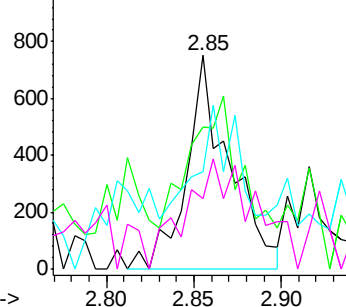


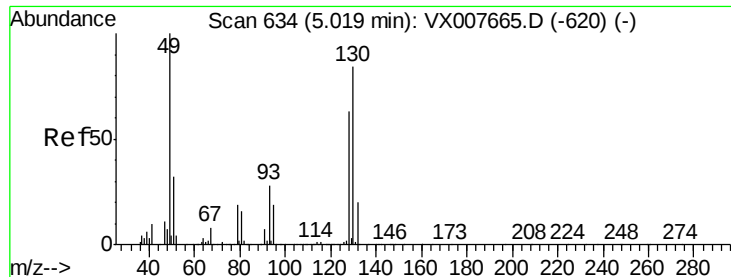
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#28

Bromochloromethane

Concen: 0.265 ug/l

RT: 5.06 min Scan# 641

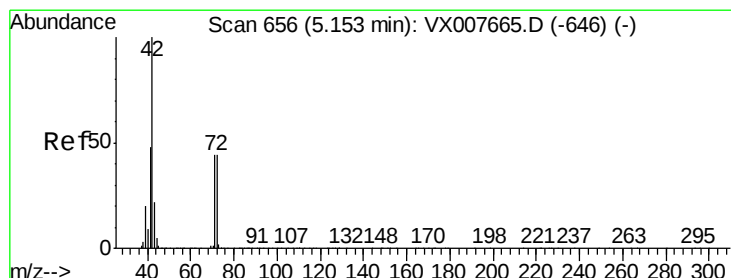
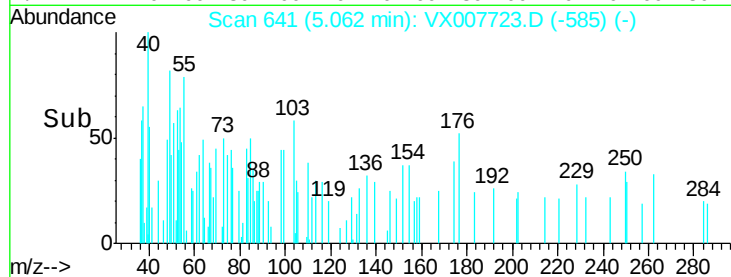
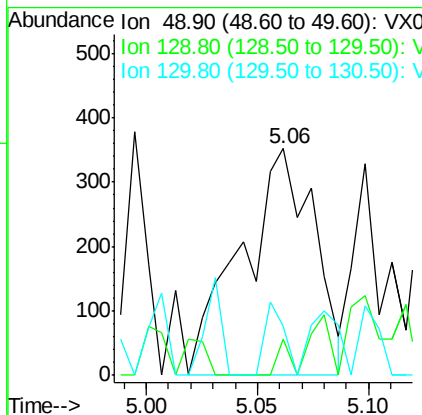
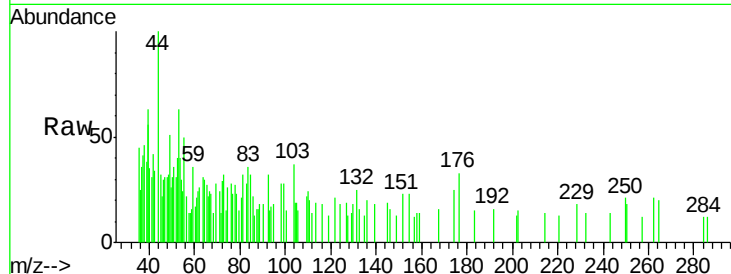
Delta R.T. 0.04 min

Lab File: VX007723.D

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MSVOA_X
ClientSampled :
Z31W

Tot Ion: 49 Resp: 797
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 8.8 75.6 113.4#



#29

Tetrahydrofuran

Concen: 0.298 ug/l

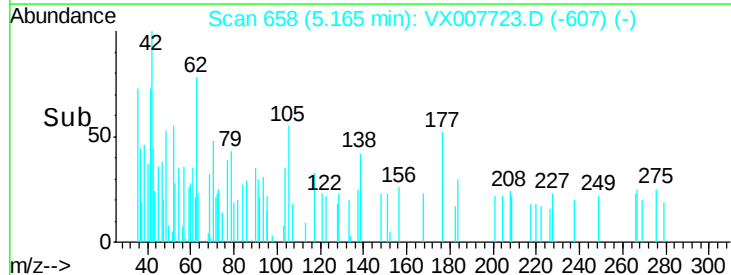
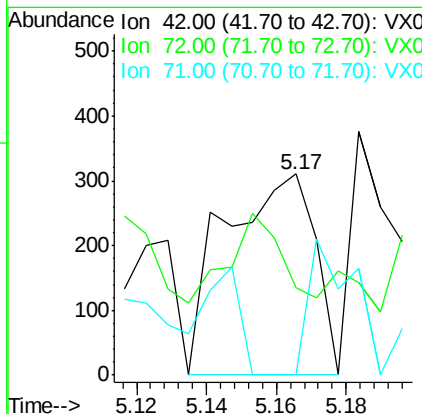
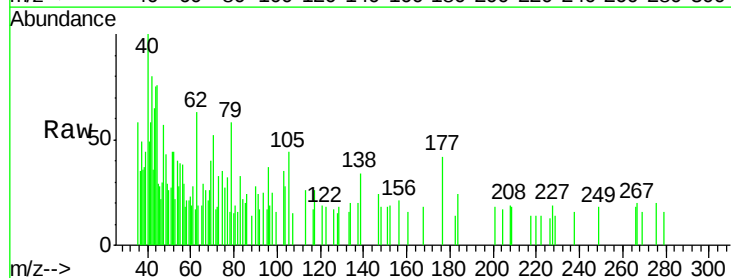
RT: 5.17 min Scan# 658

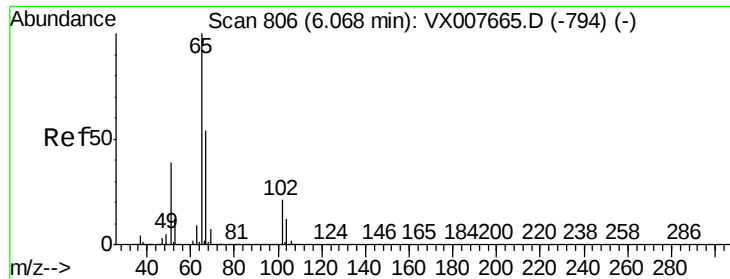
Delta R.T. 0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Tgt Ion: 42 Resp: 556
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 33.5 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 51.015 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

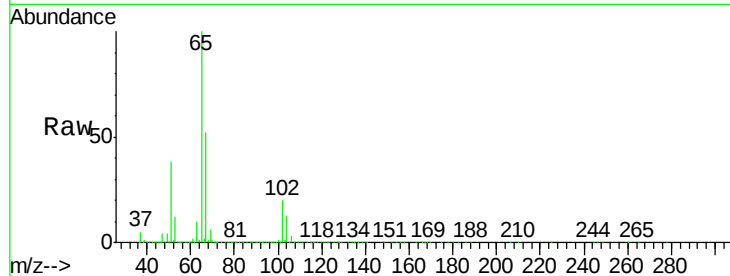
Z31W

Tot Ion: 65 Resp: 213192

Ion Ratio Lower Upper

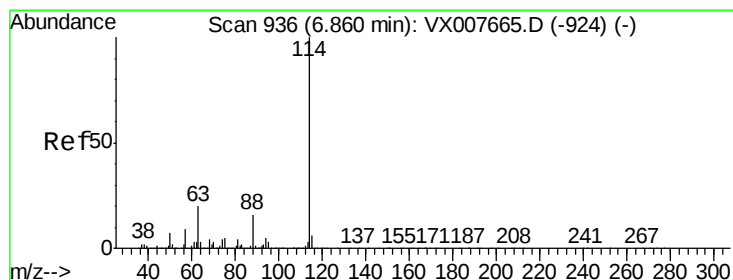
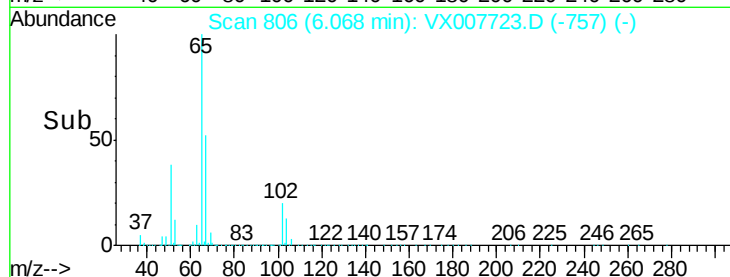
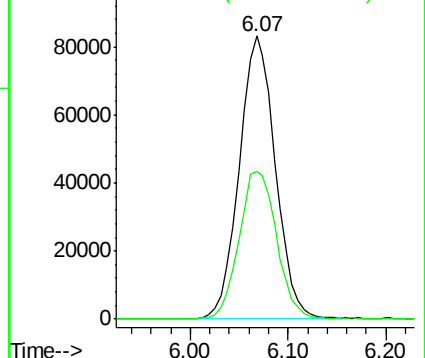
65 100

67 53.9 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

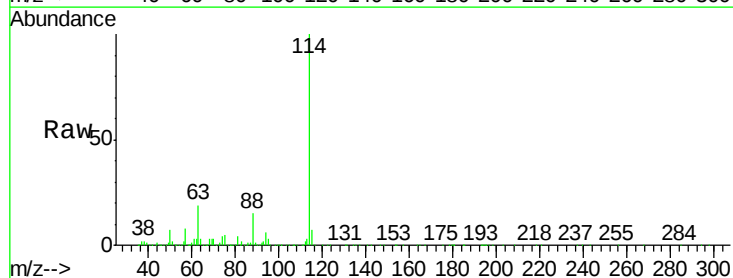
Tgt Ion: 114 Resp: 577203

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.6

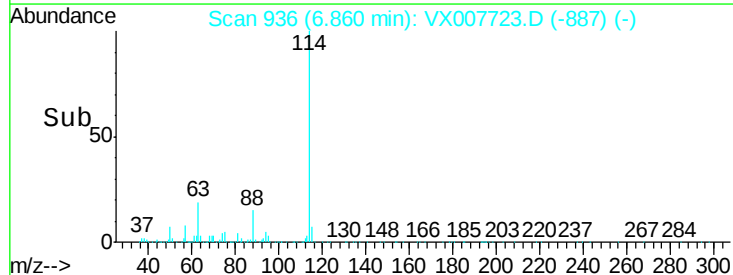
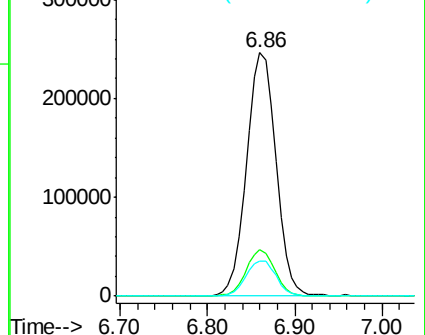
88 14.6 0.0 29.6

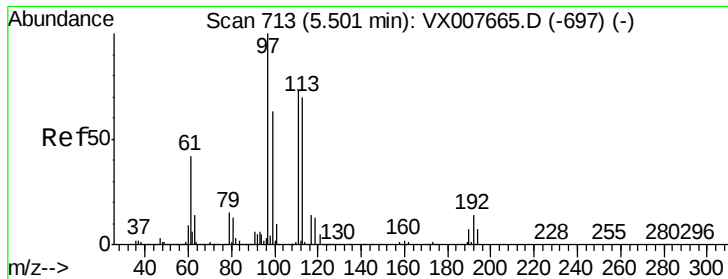


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.276 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

Z31W

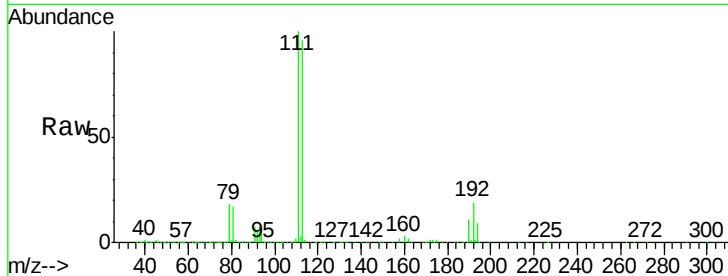
Tot Ion:113 Resp: 193986

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

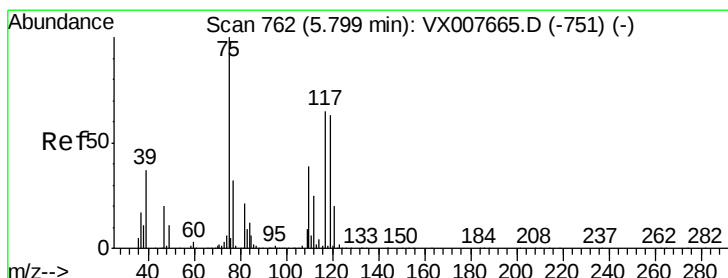
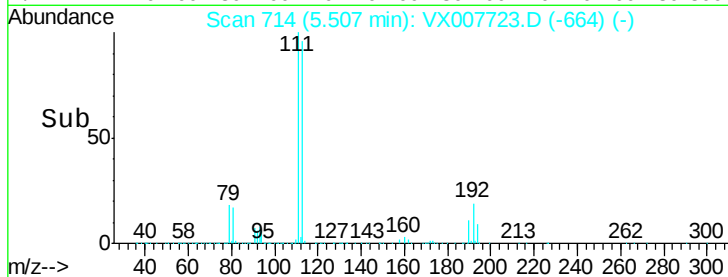
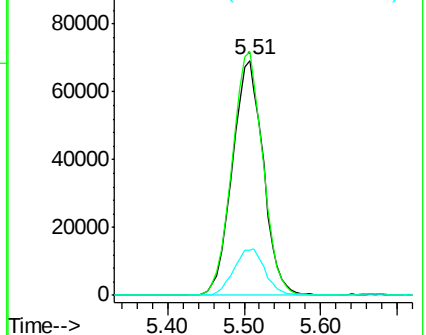
192 20.0 18.5 27.7



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: 4.774 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

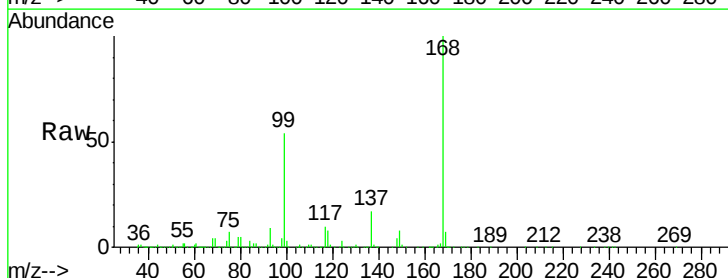
Tgt Ion: 75 Resp: 24773

Ion Ratio Lower Upper

75 100

110 3.5 20.0 59.9#

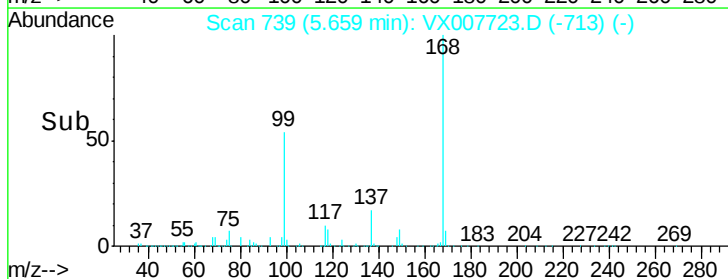
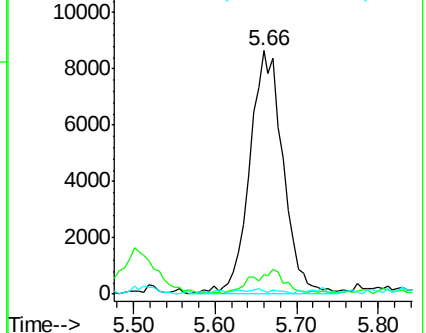
77 0.8 24.7 37.1#

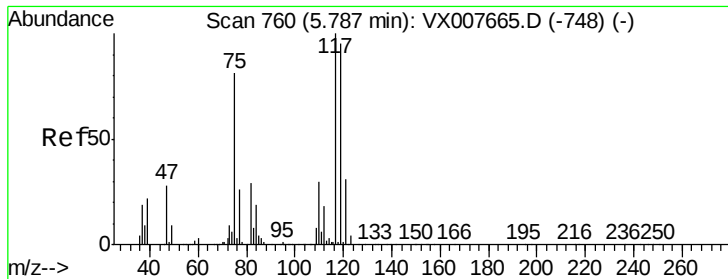


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.123 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

Z31W

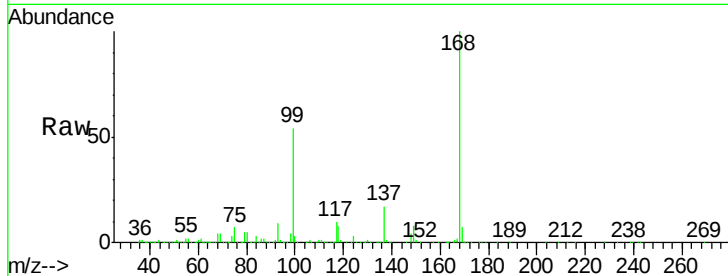
Tot Ion:117 Resp: 31916

Ion Ratio Lower Upper

117 100

119 5.9 75.3 112.9#

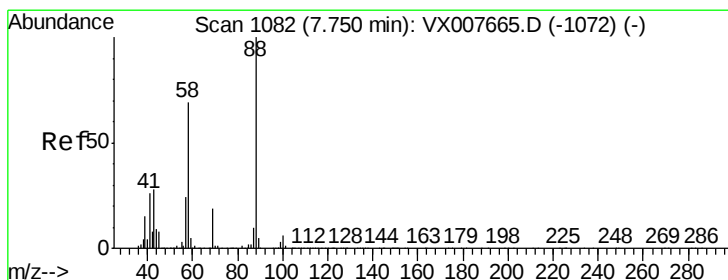
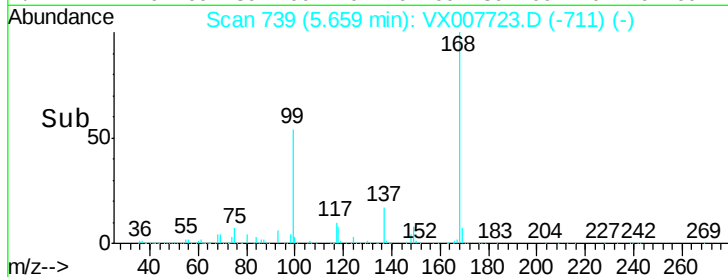
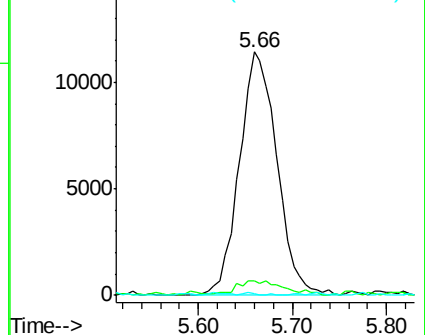
121 0.8 25.0 37.4#



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: 3.096 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

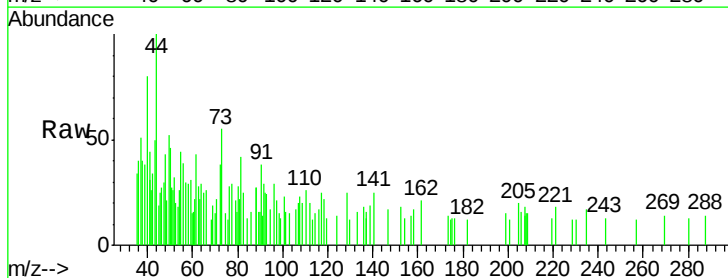
Tgt Ion: 88 Resp: 311

Ion Ratio Lower Upper

88 100

43 86.8 24.2 36.4#

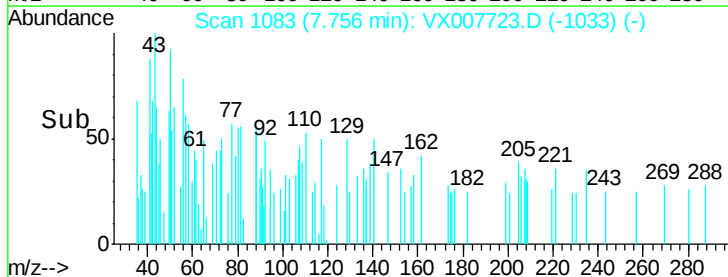
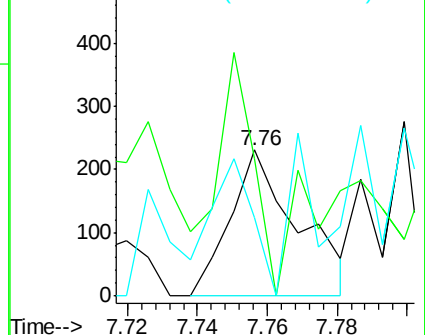
58 56.3 53.0 79.4

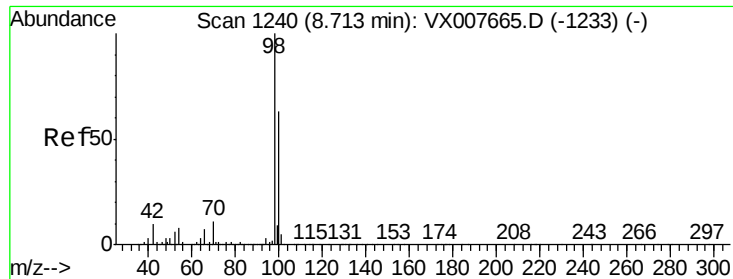


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.817 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

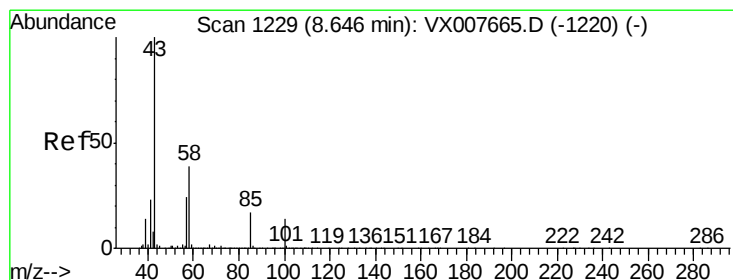
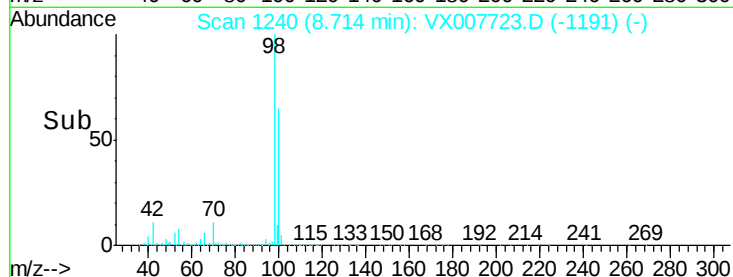
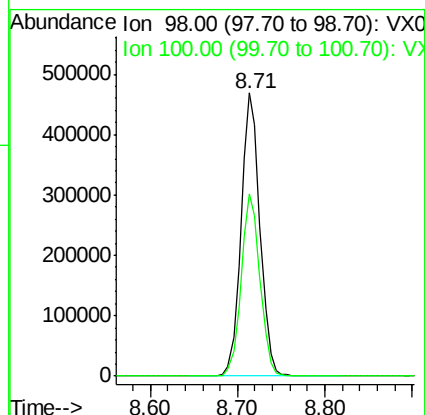
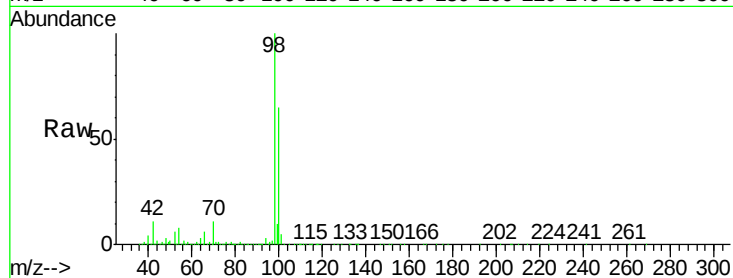
Z31W

Tot Ion: 98 Resp: 706330

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 0.272 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VX007723.D

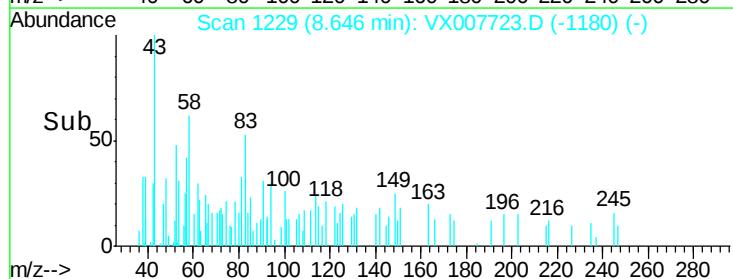
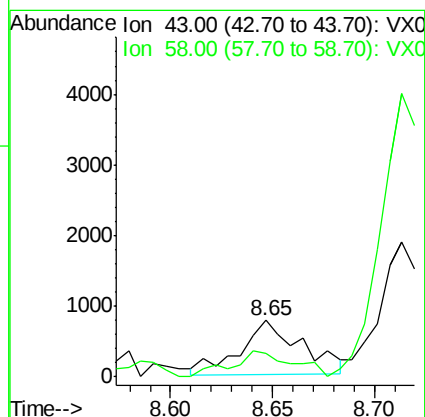
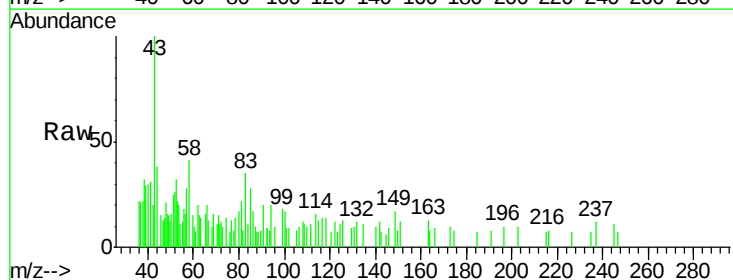
Acq: 26 Feb 2019 19:32

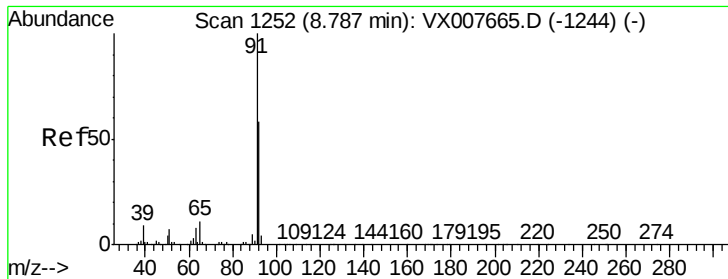
Tgt Ion: 43 Resp: 1618

Ion Ratio Lower Upper

43 100

58 47.0 31.2 46.8#





#52

Toluene

Concen: 0.240 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

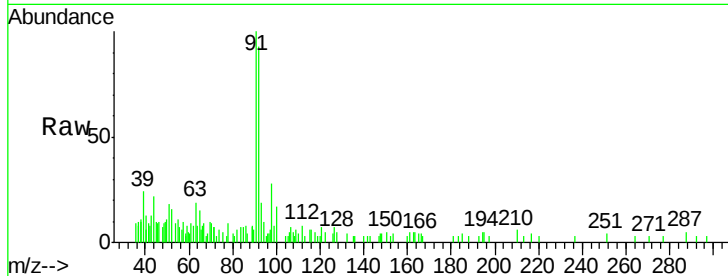
Z31W

Tot Ion: 92 Resp: 2422

Ion Ratio Lower Upper

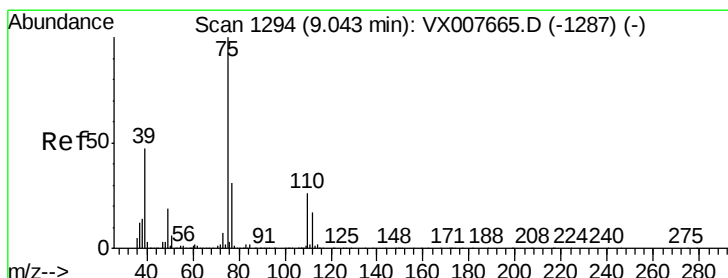
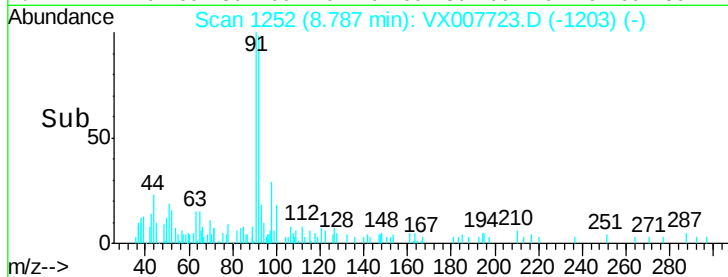
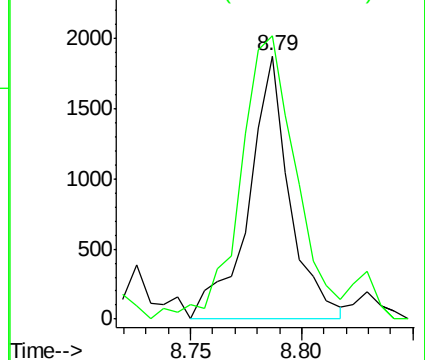
92 100

91 144.8 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.852 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007723.D

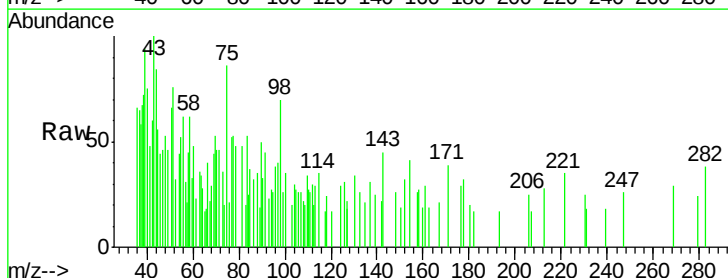
Acq: 26 Feb 2019 19:32

Tgt Ion: 75 Resp: 327

Ion Ratio Lower Upper

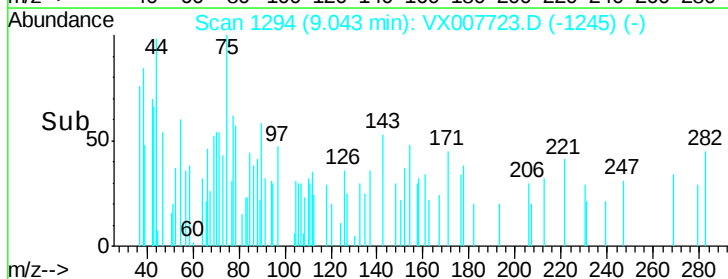
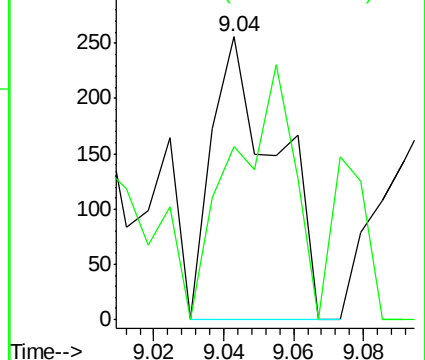
75 100

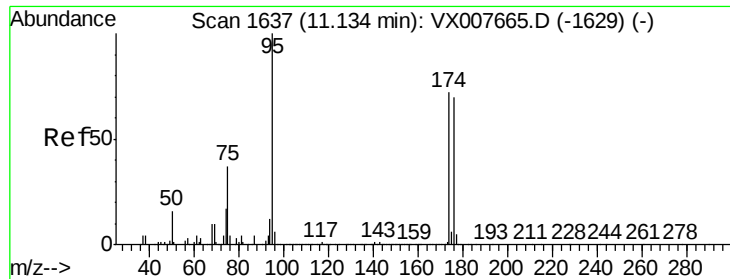
77 60.9 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#62

4-Bromofluorobenzene

Concen: 44.234 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

Z31W

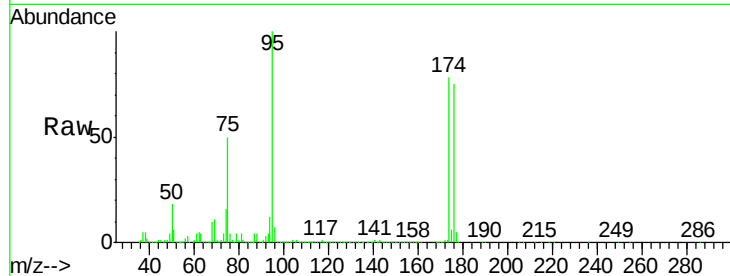
Tot Ion: 95 Resp: 239820

Ion Ratio Lower Upper

95 100

174 84.9 0.0 189.2

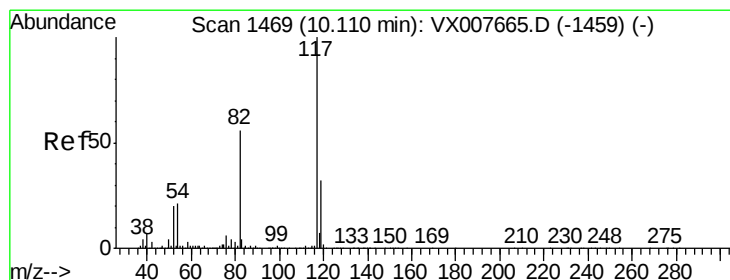
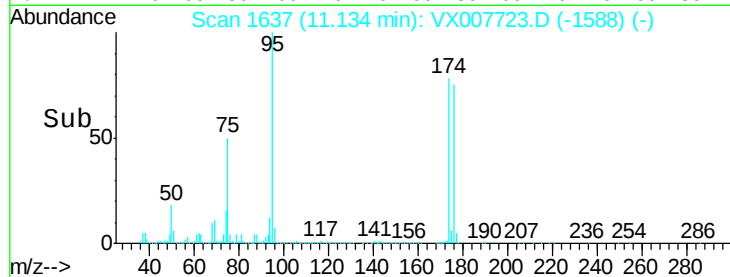
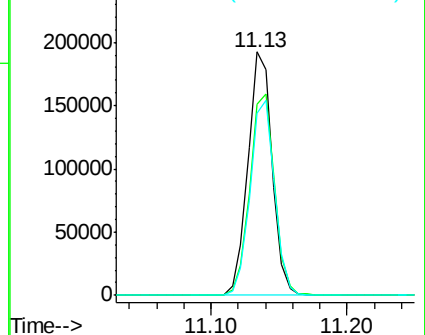
176 82.0 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007665.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX007665.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX007665.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

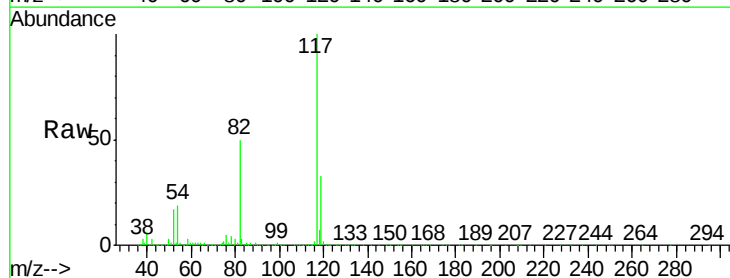
Tgt Ion: 117 Resp: 541310

Ion Ratio Lower Upper

117 100

82 50.4 42.1 63.1

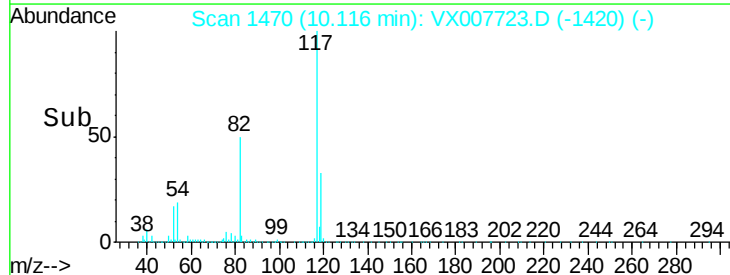
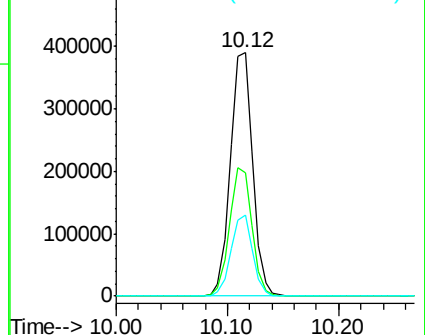
119 33.2 26.5 39.7

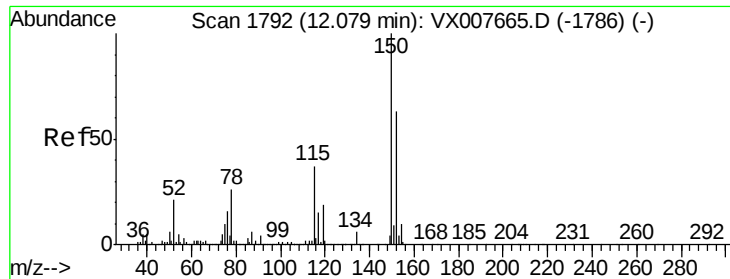


Abundance Ion 116.90 (116.60 to 117.60): VX007665.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007665.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007665.D (-1459) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

Z31W

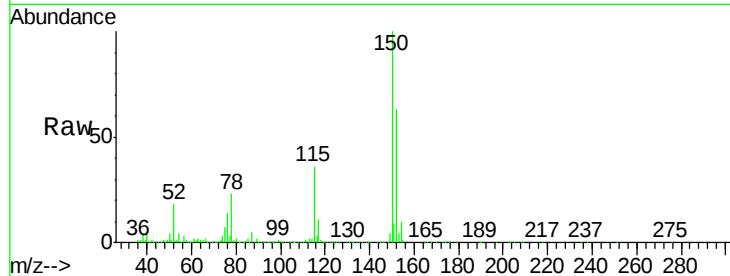
Tot Ion:152 Resp: 245124

Ion Ratio Lower Upper

152 100

115 57.1 38.0 114.0

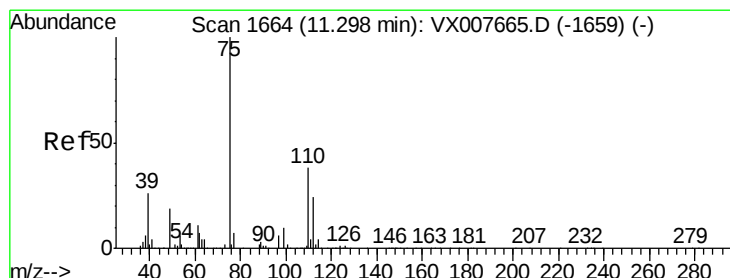
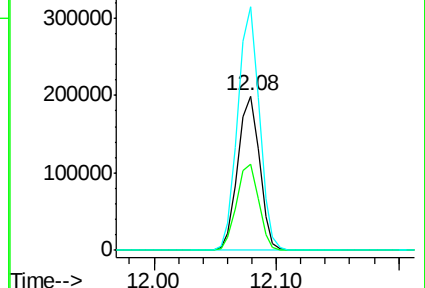
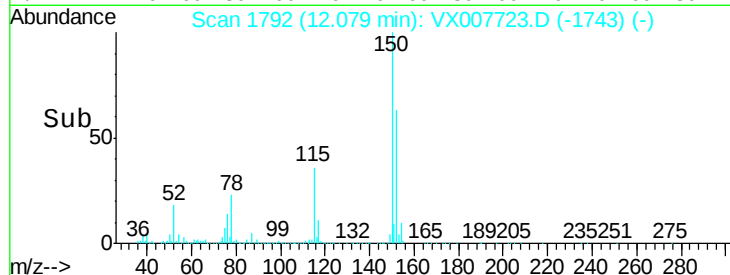
150 155.8 0.0 346.4



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: 22.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007723.D

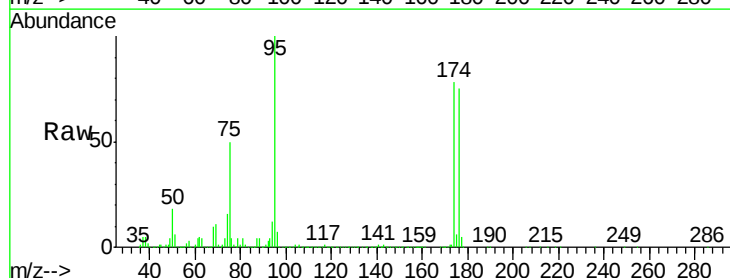
Acq: 26 Feb 2019 19:32

Tgt Ion: 75 Resp: 117529

Ion Ratio Lower Upper

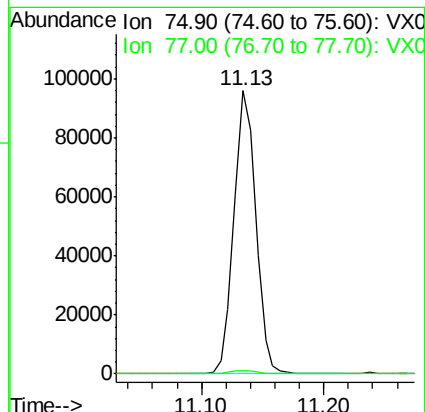
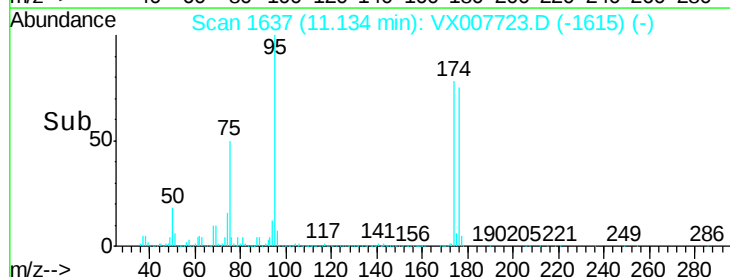
75 100

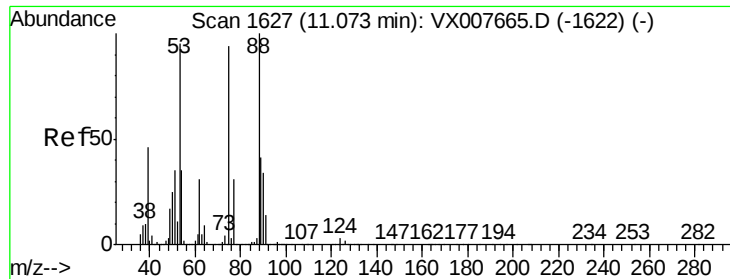
77 1.6 23.0 69.0#



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: 59.659 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007723.D

Acq: 26 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

Z31W

Tot Ion: 75 Resp: 117529

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.3 41.4 62.0#

