

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006602.D
 Acq On : 18 Dec 2018 17:11
 Operator : JC/MD
 Sample : J6405-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20181211

Quant Time: Dec 19 06:01:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	716363	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1098965	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1014421	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	479586	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	375254	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.50	113	332480	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	8.71	98	1299582	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.13	95	467092	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	

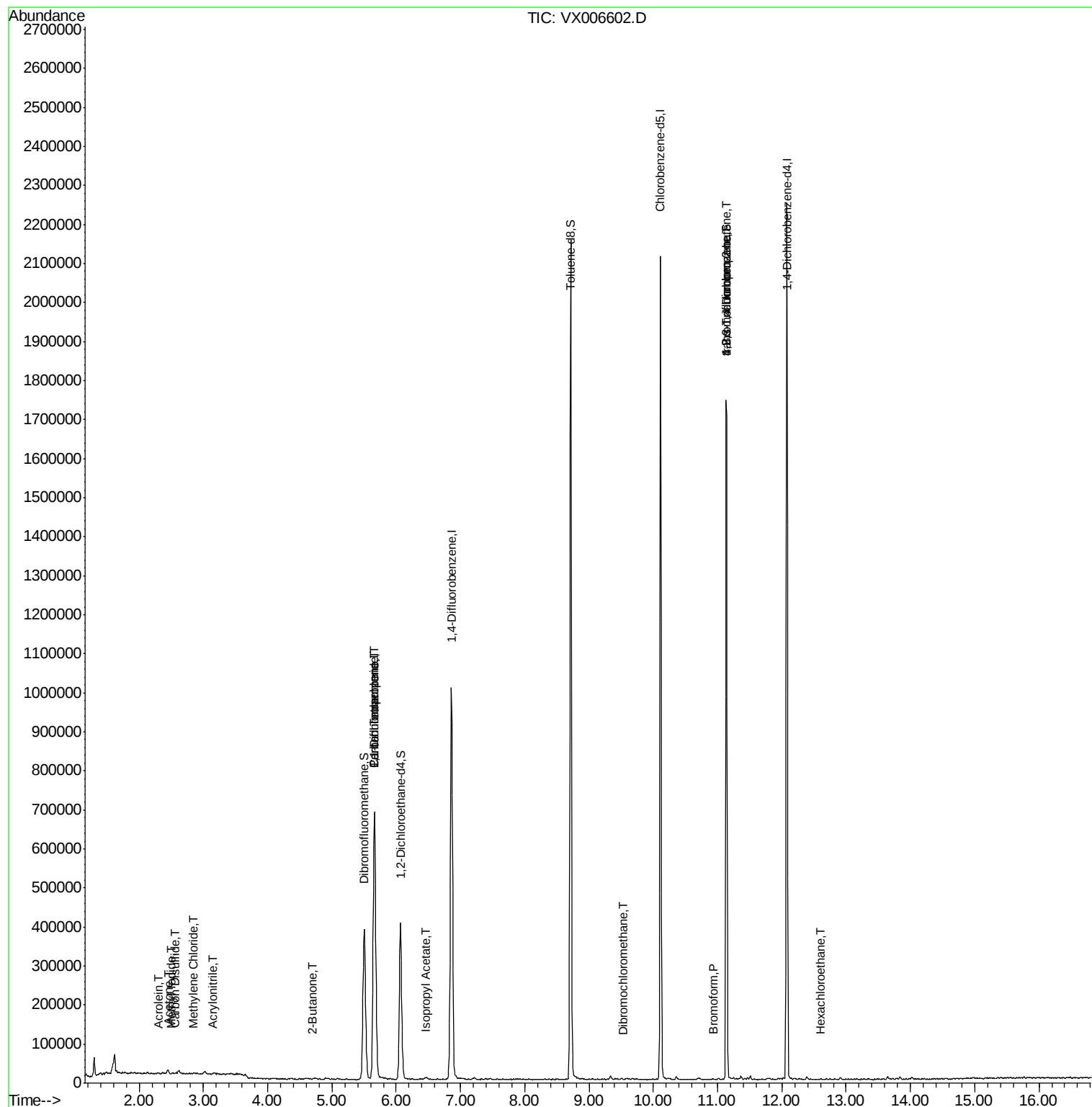
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1939	Below Cal		90
10) Methyl Iodide	2.51	142	2333	0.241	ug/l #	77
13) Acrolein	2.31	56	278	0.239	ug/l #	64
15) Acrylonitrile	3.14	53	1763	0.461	ug/l #	52
16) Acetone	2.45	43	12435	3.506	ug/l	95
17) Carbon Disulfide	2.57	76	3544	0.209	ug/l #	72
20) Methylene Chloride	2.85	84	2003	0.273	ug/l #	56
25) 2-Butanone	4.71	43	2609	0.523	ug/l	100
28) Bromochloromethane	4.99	49	98	Below Cal	#	48
36) 1,1-Dichloropropene	5.67	75	48095	5.284	ug/l #	48
38) Carbon Tetrachloride	5.67	117	66130	7.476	ug/l #	16
43) Isopropyl Acetate	6.46	43	6010	0.417	ug/l #	78
49) 1,4-Dioxane	7.75	88	366	Below Cal	#	1
60) Dibromochloromethane	9.53	129	94	2.336	ug/l	76
71) Bromoform	10.94	173	124	4.479	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	223184	26.552	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	223184	73.989	ug/l #	15
90) Hexachloroethane	12.60	117	189	3.332	ug/l #	28

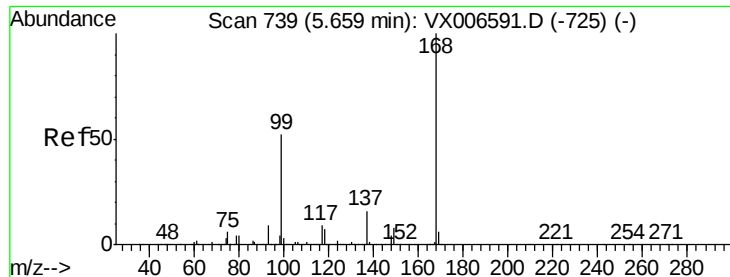
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

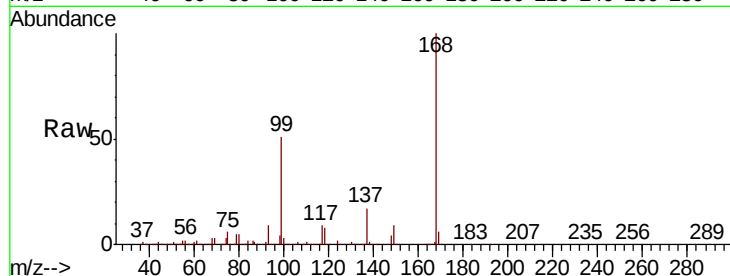
EB01-20181211

Tot Ion:168 Resp: 716363

Ion Ratio Lower Upper

168 100

99 50.8 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): VX006602.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX006602.D (-690) (-)

5.67

250000

200000

150000

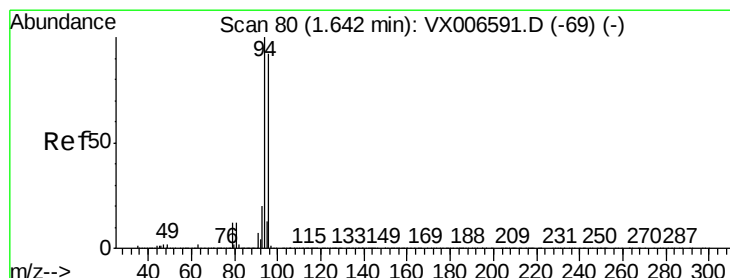
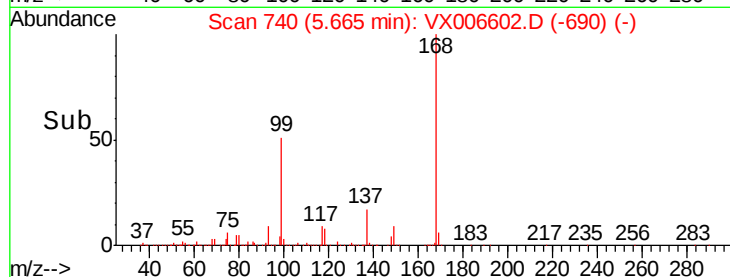
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006602.D

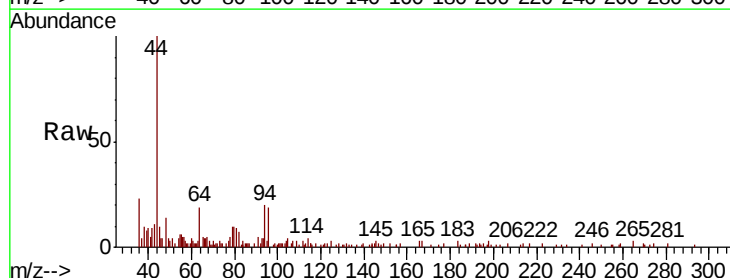
Acq: 18 Dec 2018 17:11

Tgt Ion: 94 Resp: 1939

Ion Ratio Lower Upper

94 100

96 83.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX006602.D (-31) (-)

Ion 95.90 (95.60 to 96.60): VX006602.D (-31) (-)

1.65

1200

1000

800

600

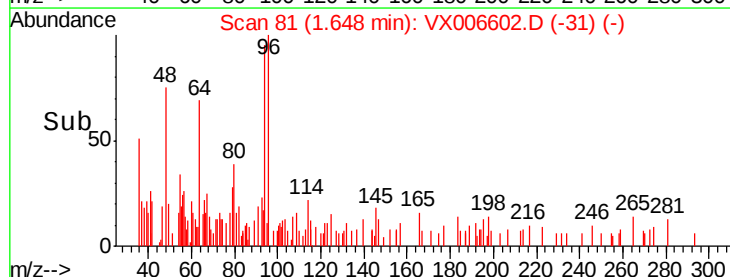
400

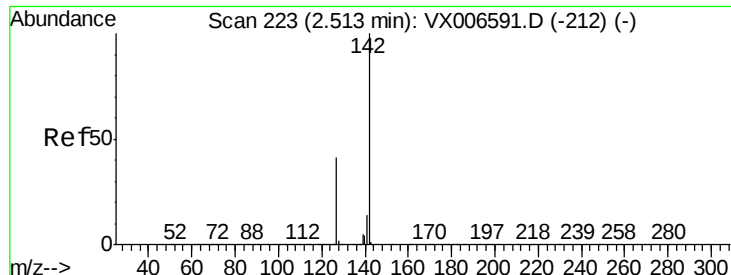
200

0

Time-->

1.60 1.65 1.70

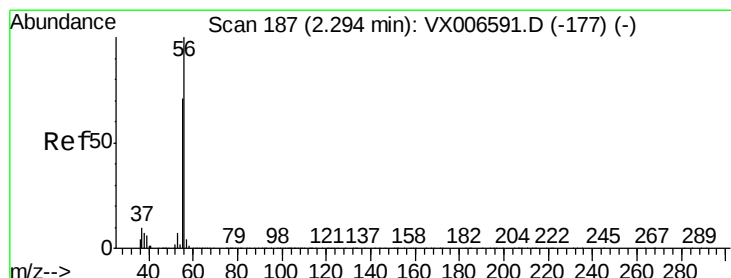
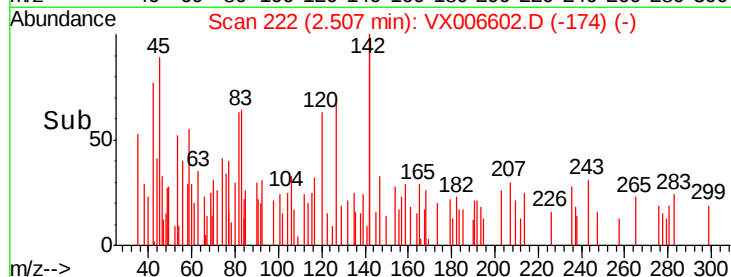
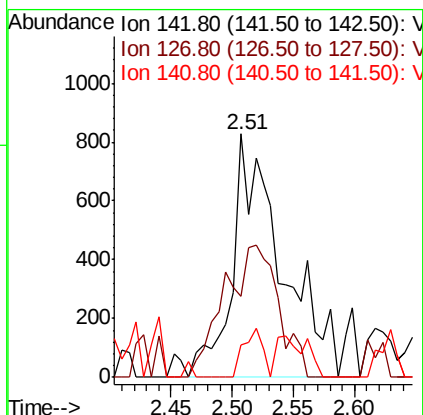
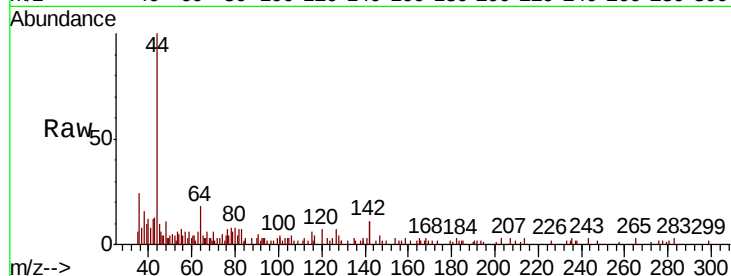




#10
Methvl Iodide
Concen: 0.241 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.01 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

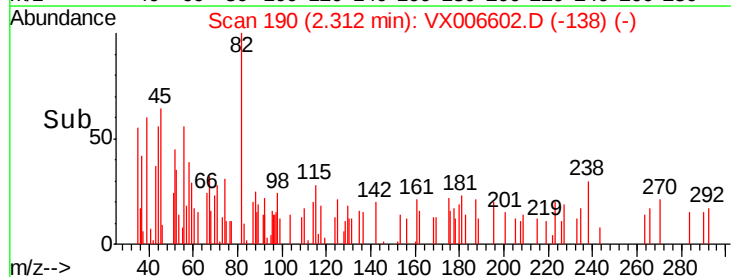
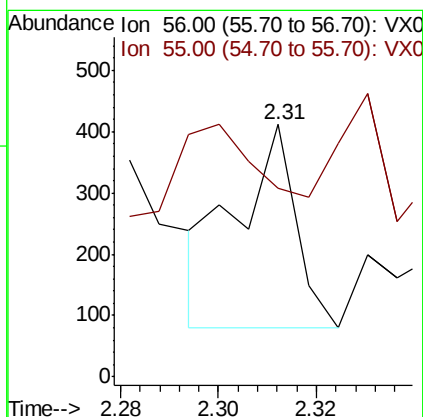
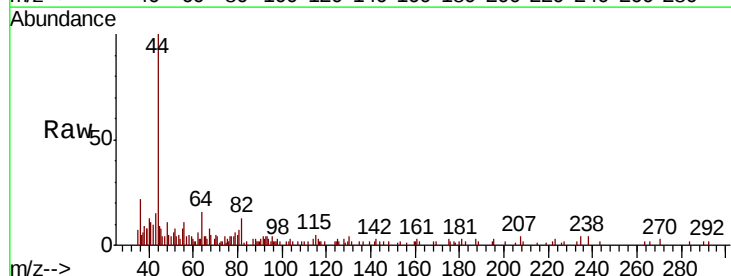
Instrument :
MSVOA_X
ClientSampleId :
EB01-20181211

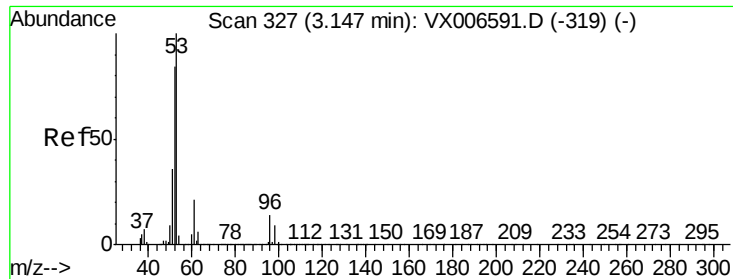
Tot Ion:142 Resp: 2333
Ion Ratio Lower Upper
142 100
127 59.6 34.8 52.2#
141 7.6 11.4 17.2#



#13
Acrolein
Concen: 0.239 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Tgt Ion: 56 Resp: 278
Ion Ratio Lower Upper
56 100
55 102.2 57.8 86.6#





#15

Acrylonitrile

Concen: 0.461 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

EB01-20181211

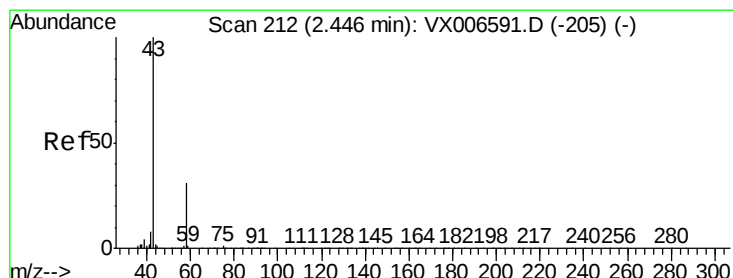
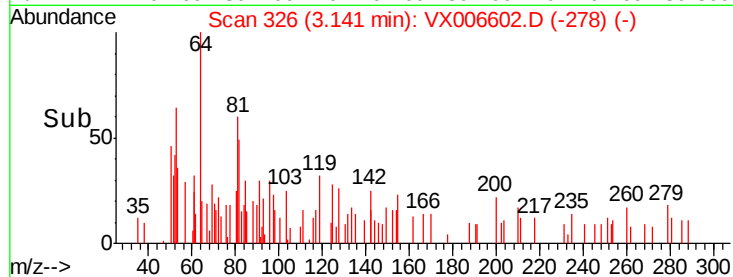
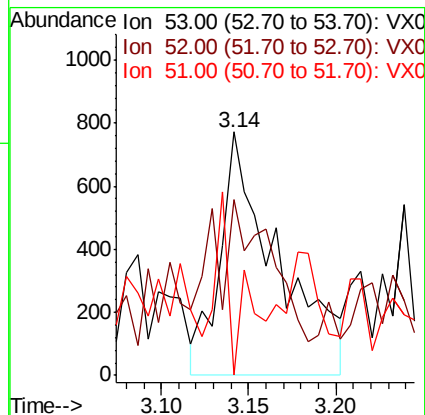
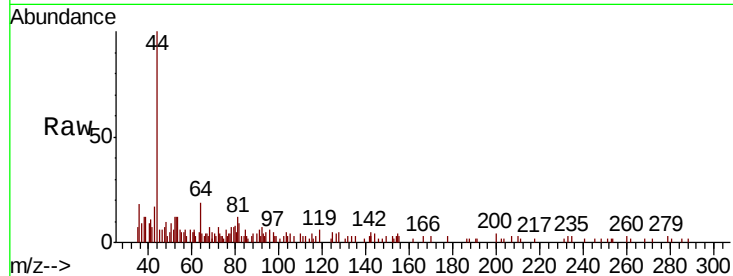
Tot Ion: 53 Resp: 1763

Ion Ratio Lower Upper

53 100

52 44.1 66.2 99.4#

51 0.0 28.7 43.1#



#16

Acetone

Concen: 3.506 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006602.D

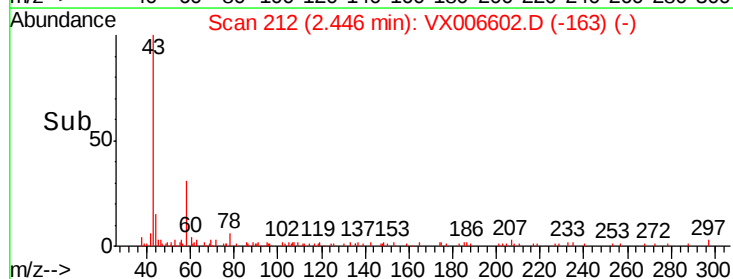
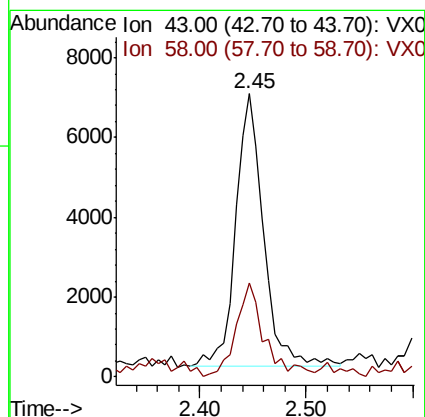
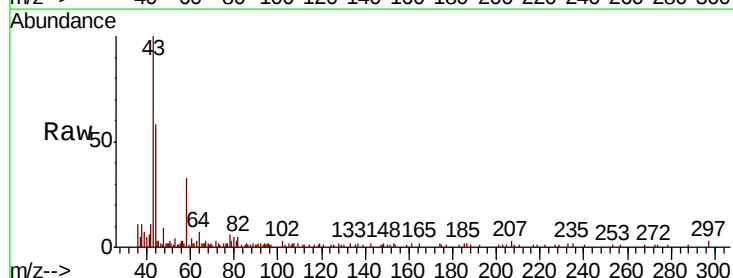
Acq: 18 Dec 2018 17:11

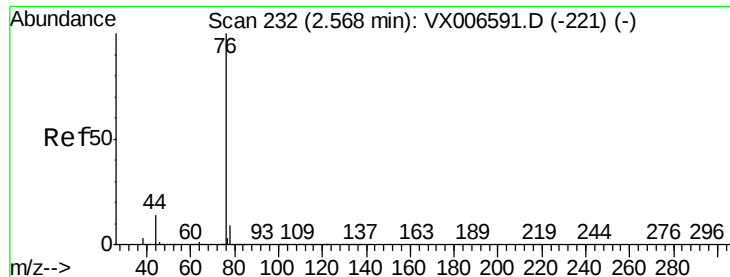
Tgt Ion: 43 Resp: 12435

Ion Ratio Lower Upper

43 100

58 32.5 24.0 36.0





#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

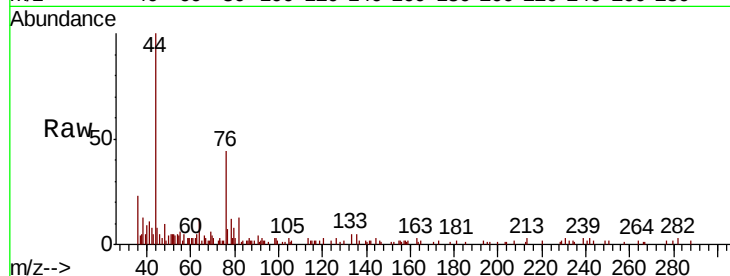
EB01-20181211

Tot Ion: 76 Resp: 3544

Ion Ratio Lower Upper

76 100

78 18.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

2000

1500

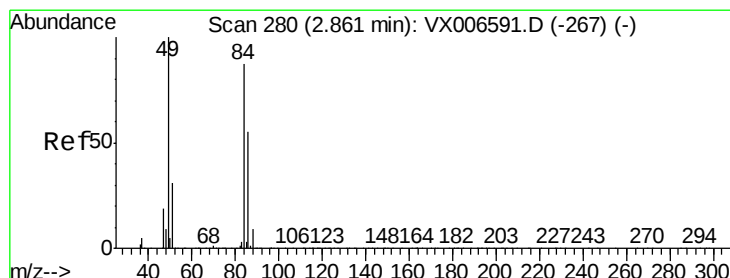
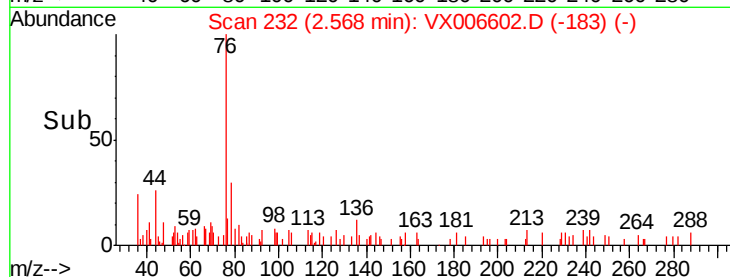
1000

500

0

2.50 2.55 2.60 2.65

Time-->



#20

Methylene Chloride

Concen: 0.273 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Tgt Ion: 84 Resp: 2003

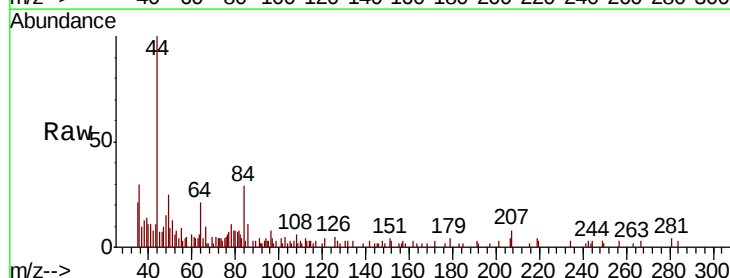
Ion Ratio Lower Upper

84 100

49 74.6 102.2 153.4#

51 25.1 31.1 46.7#

86 25.5 53.7 80.5#



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

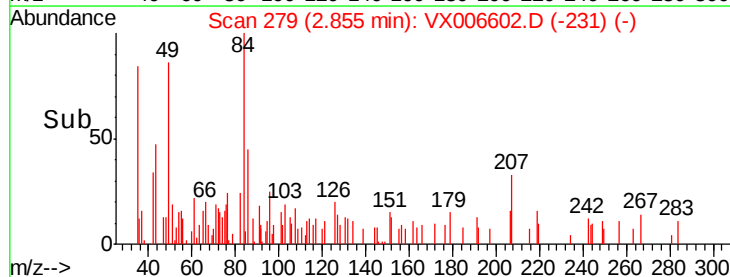
1000

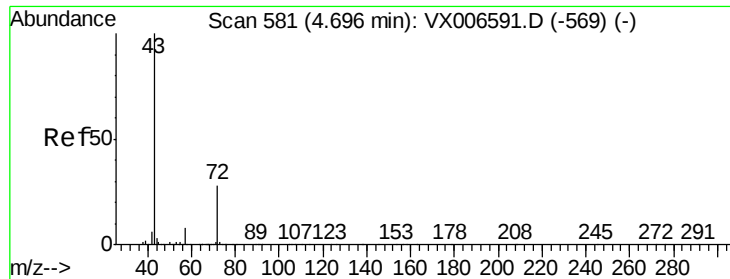
500

0

2.80 2.85 2.90 2.95

Time-->

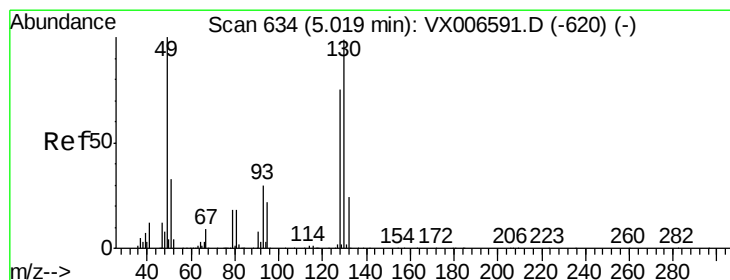
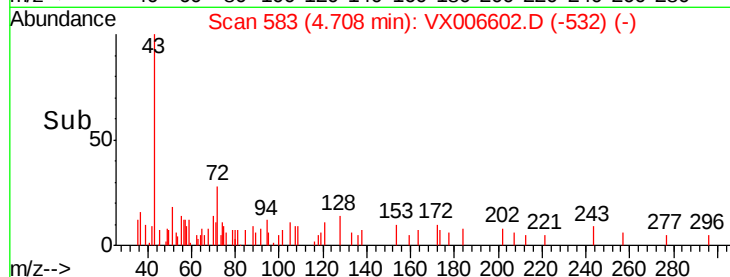
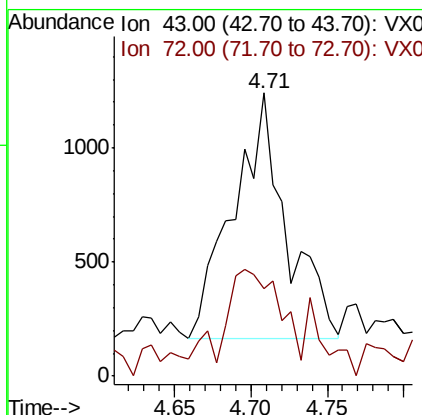
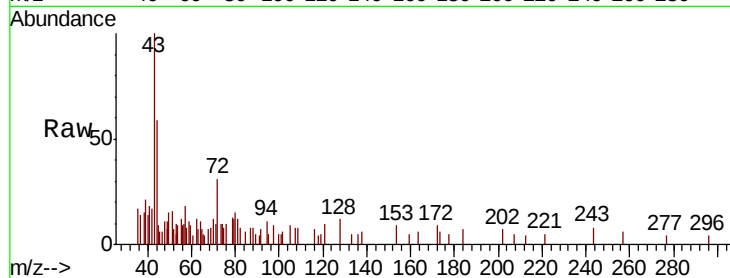




#25
2-Butanone
Concen: 0.523 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

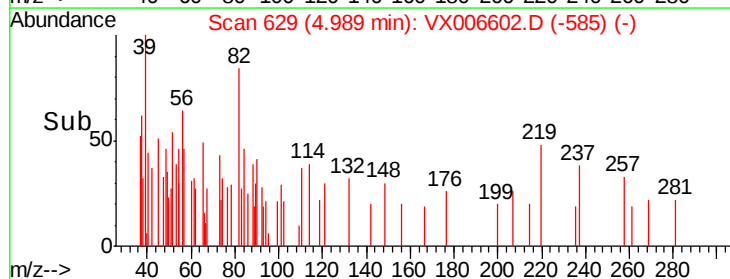
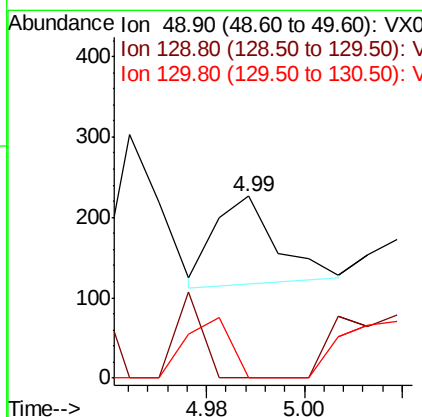
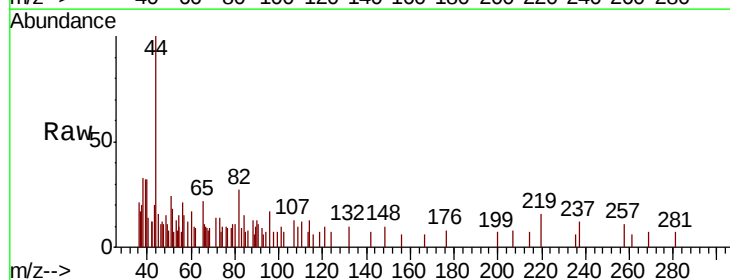
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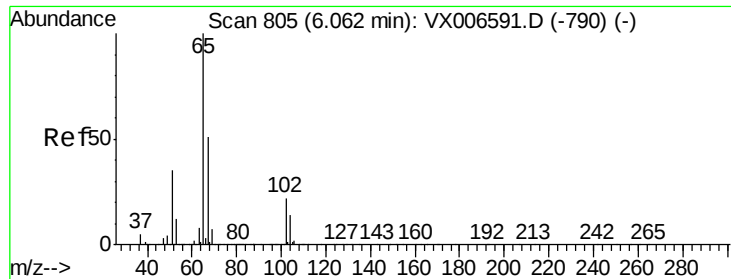
Tot Ion: 43 Resp: 2609
Ion Ratio Lower Upper
43 100
72 28.3 22.6 33.8



#28
Bromochloromethane
Concen: Below Cal
RT: 4.99 min Scan# 629
Delta R.T. -0.03 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Tgt Ion: 49 Resp: 98
Ion Ratio Lower Upper
49 100
129 39.8 0.0 5.0#
130 48.0 78.3 117.5#





#33

1,2-Dichloroethane-d4

Concen: 48.604 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

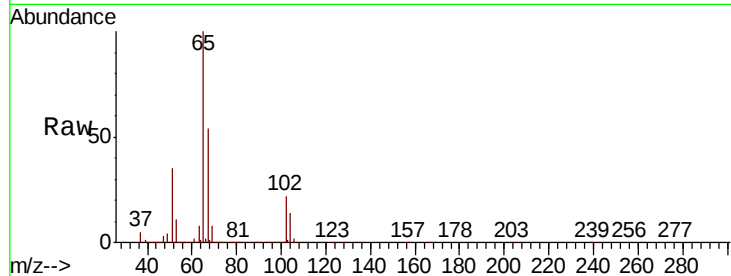
EB01-20181211

Tot Ion: 65 Resp: 375254

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

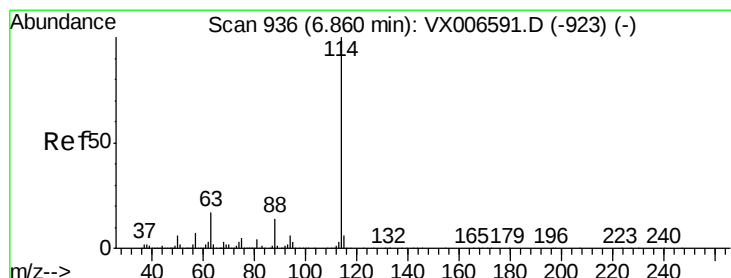
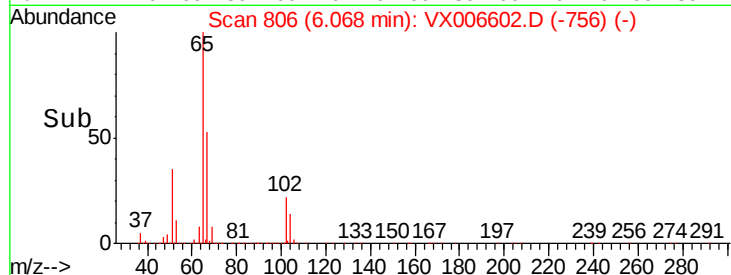
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

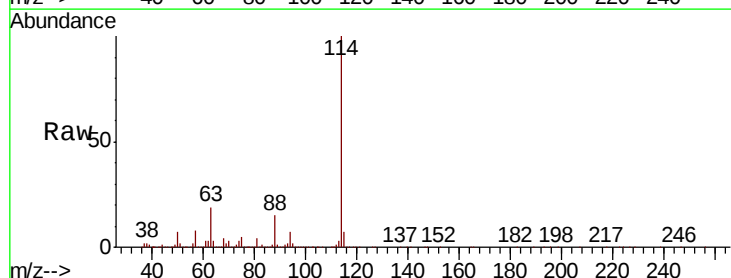
Tgt Ion: 114 Resp: 1098965

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.6

88 14.9 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

600000

500000

400000

300000

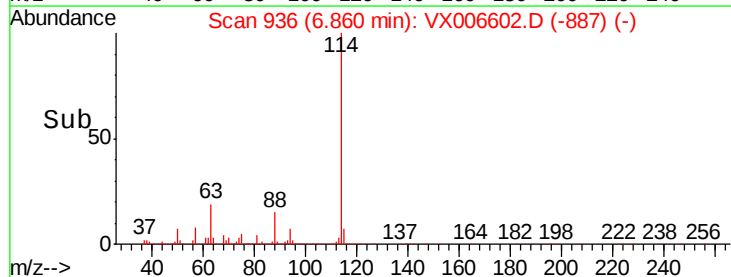
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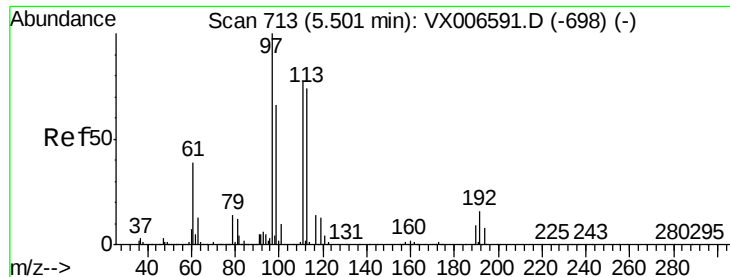
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.841 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

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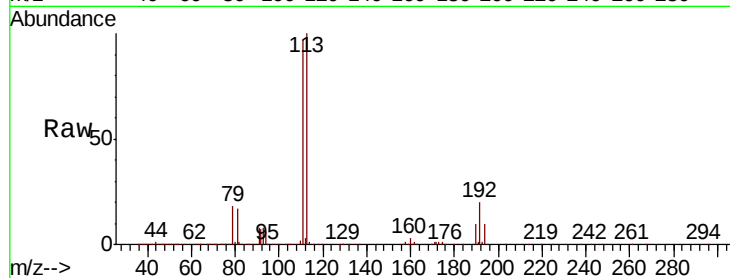
Tot Ion:113 Resp: 332480

Ion Ratio Lower Upper

113 100

111 101.2 81.1 121.7

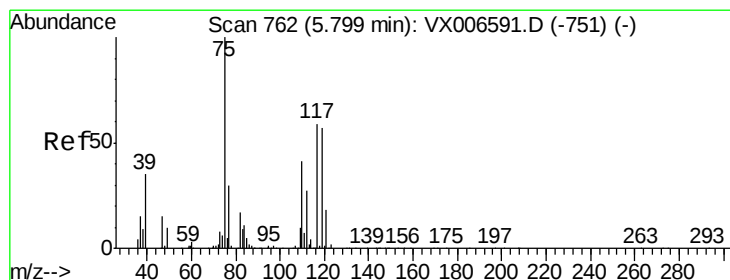
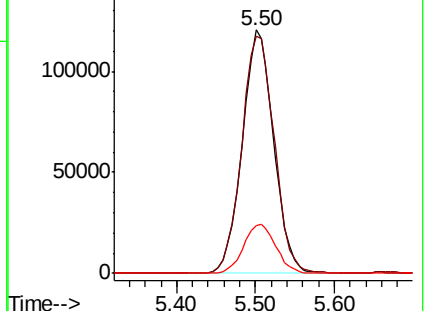
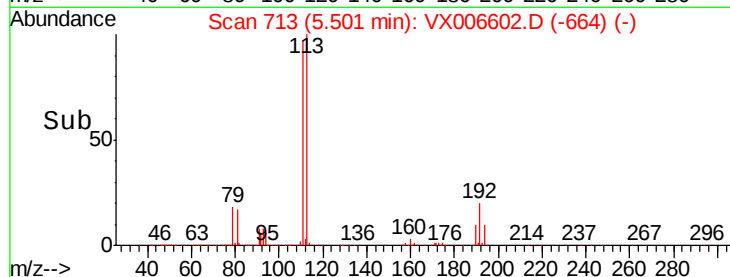
192 20.6 18.2 27.2



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: 5.284 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

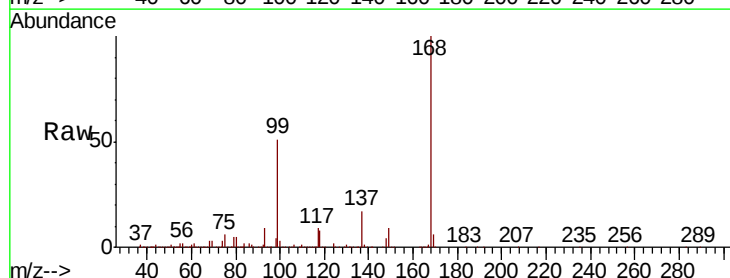
Tgt Ion: 75 Resp: 48095

Ion Ratio Lower Upper

75 100

110 10.4 20.4 61.3#

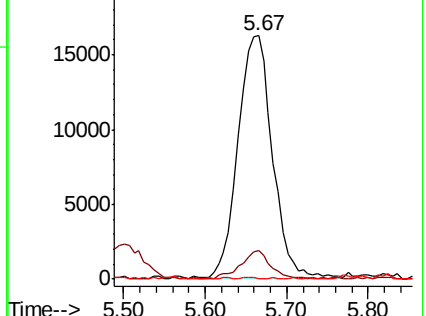
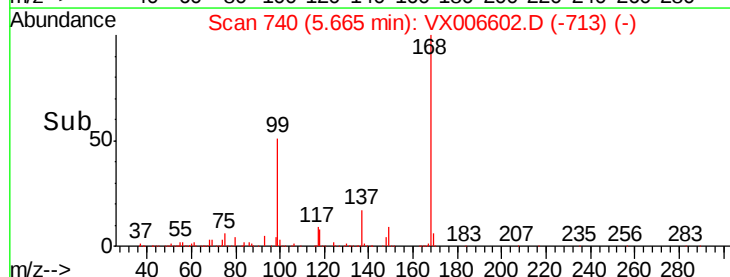
77 0.3 24.9 37.3#

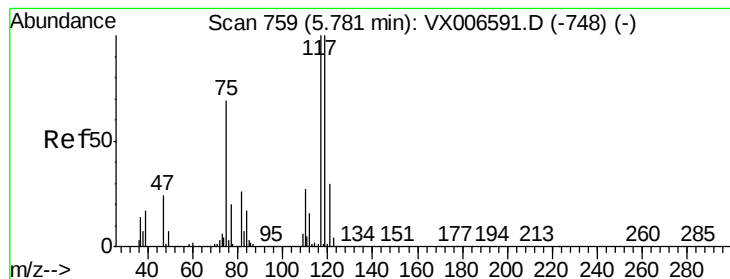


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.476 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

EB01-20181211

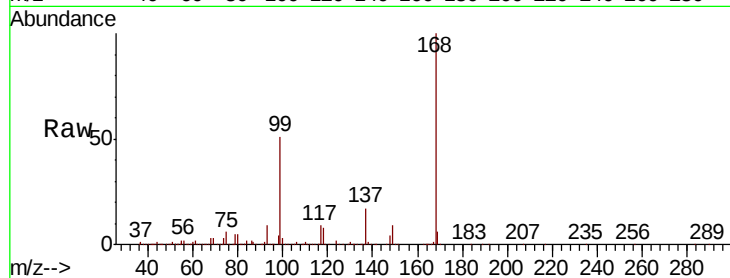
Tot Ion:117 Resp: 66130

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.8#

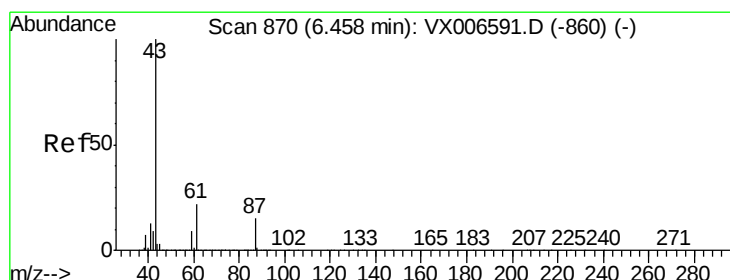
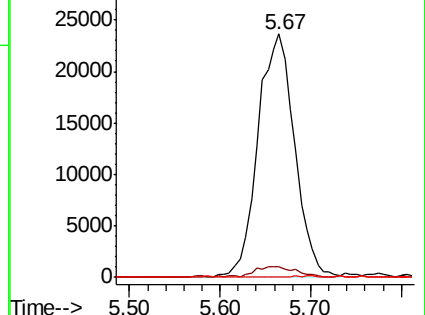
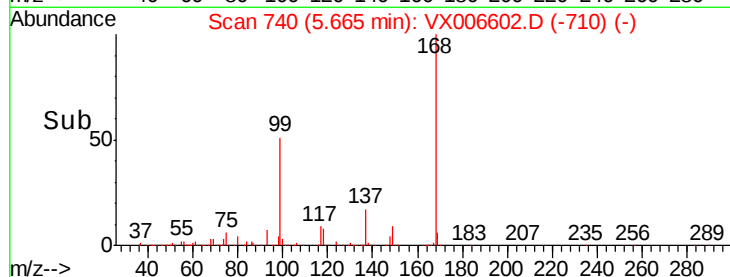
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.417 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

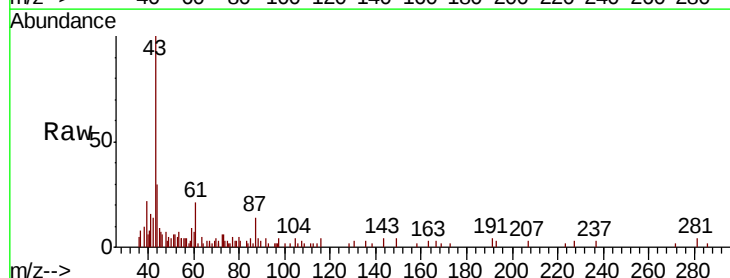
Tgt Ion: 43 Resp: 6010

Ion Ratio Lower Upper

43 100

61 31.0 16.8 25.2#

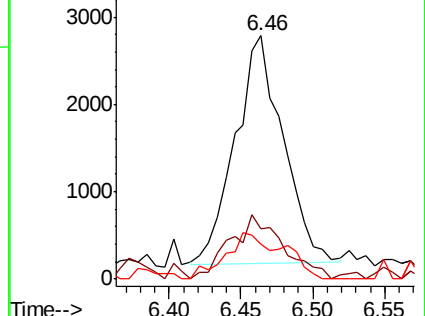
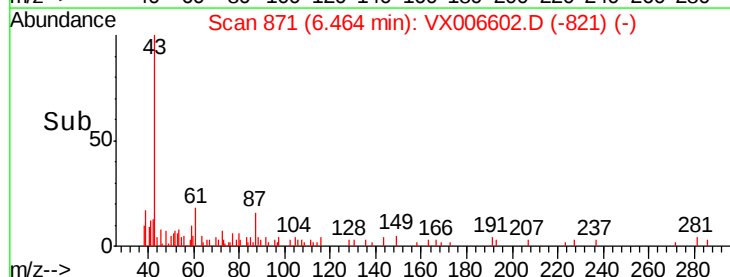
87 24.5 11.9 17.9#

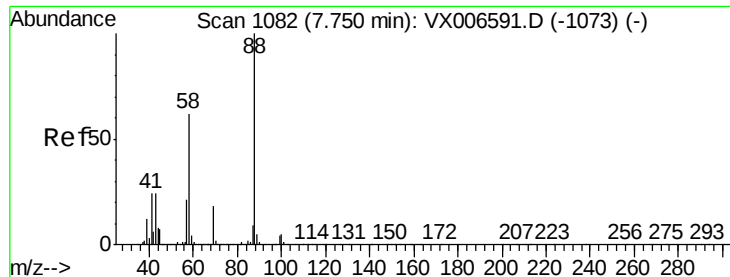


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

EB01-20181211

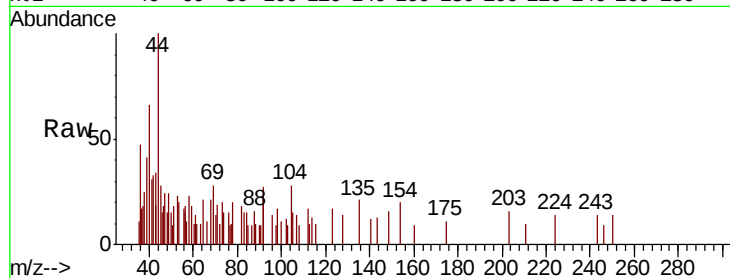
Tot Ion: 88 Resp: 366

Ion Ratio Lower Upper

88 100

43 188.3 23.2 34.8#

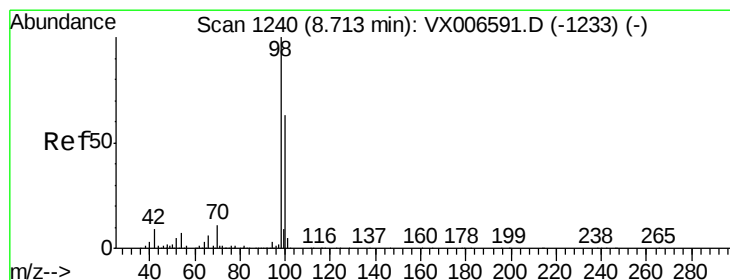
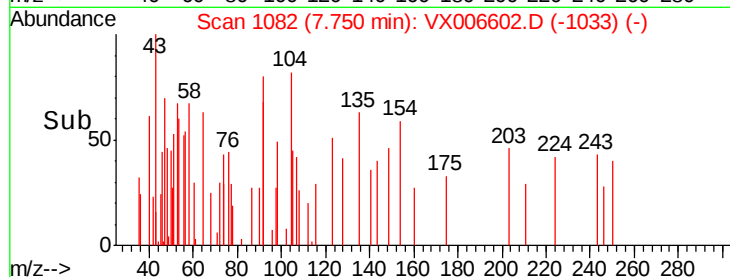
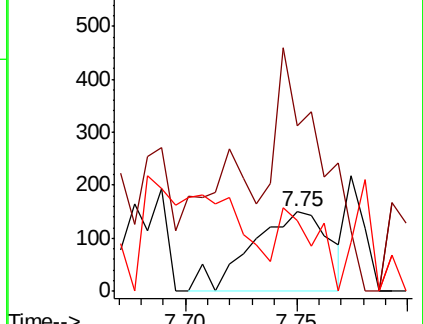
58 50.3 51.4 77.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.602 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006602.D

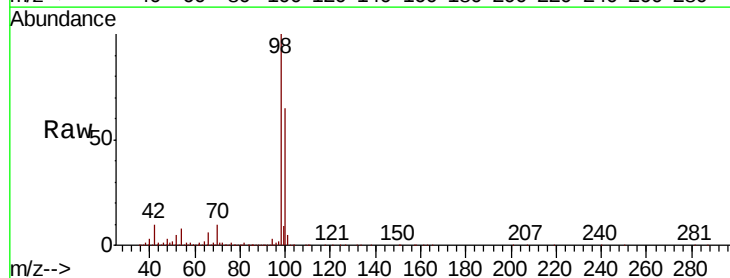
Acq: 18 Dec 2018 17:11

Tgt Ion: 98 Resp: 1299582

Ion Ratio Lower Upper

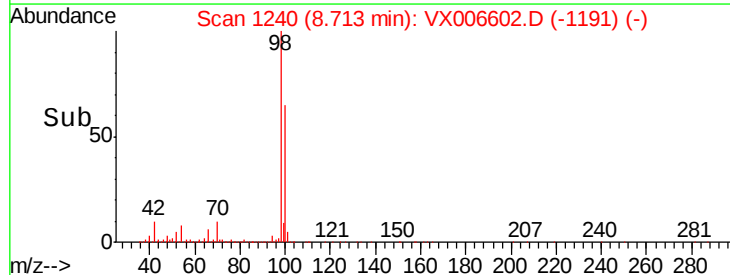
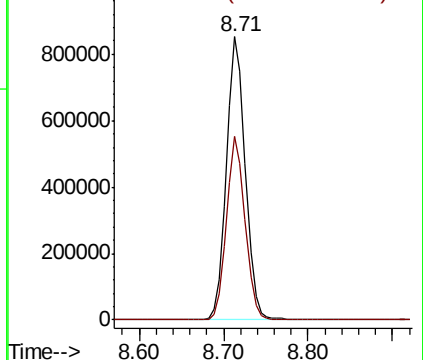
98 100

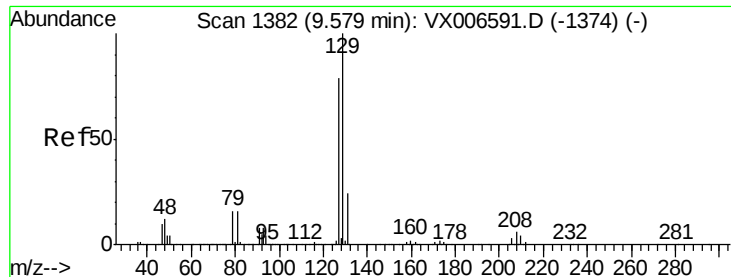
100 63.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 9.53 min Scan# 1374

Delta R.T. -0.05 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

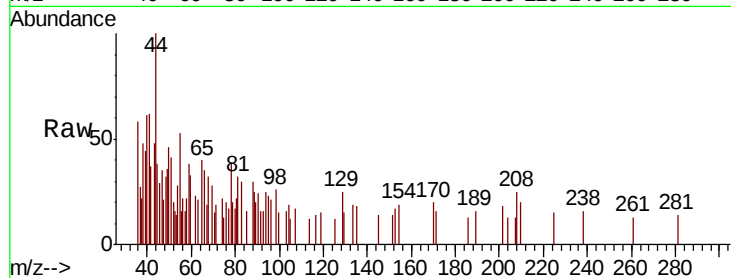
EB01-20181211

Tot Ion:129 Resp: 94

Ion Ratio Lower Upper

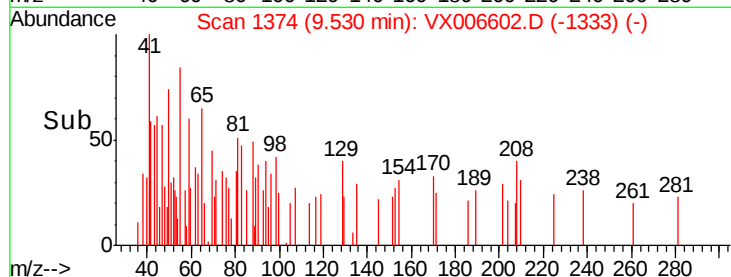
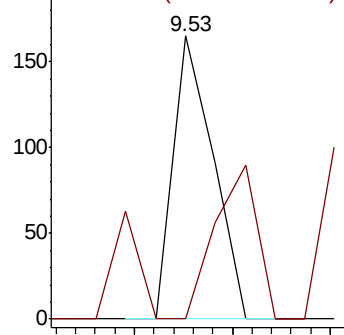
129 100

127 56.4 38.6 115.8

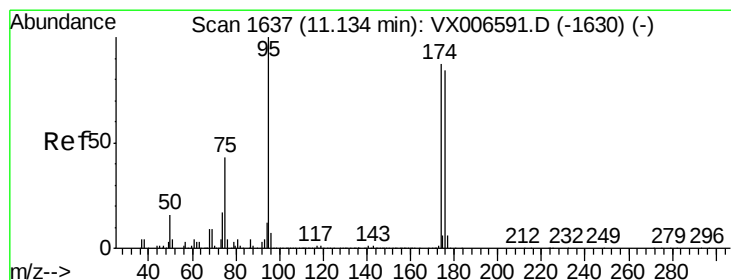


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 48.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

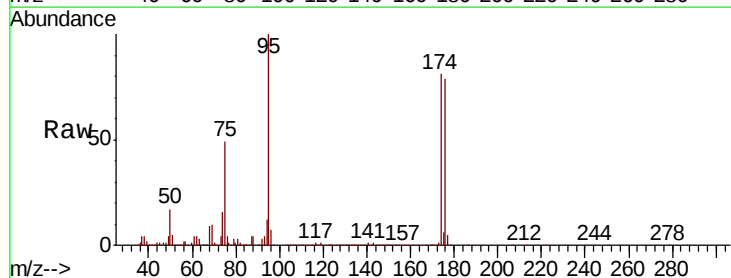
Tgt Ion: 95 Resp: 467092

Ion Ratio Lower Upper

95 100

174 88.5 0.0 187.0

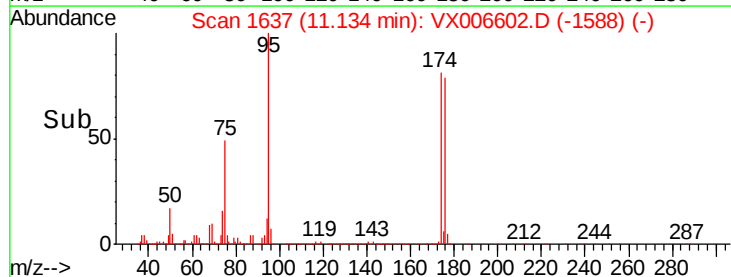
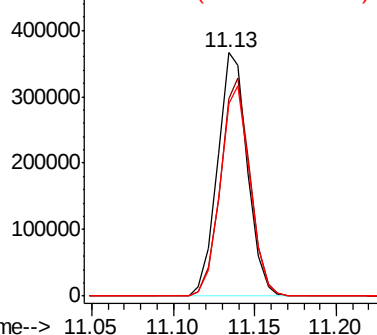
176 85.9 0.0 181.8



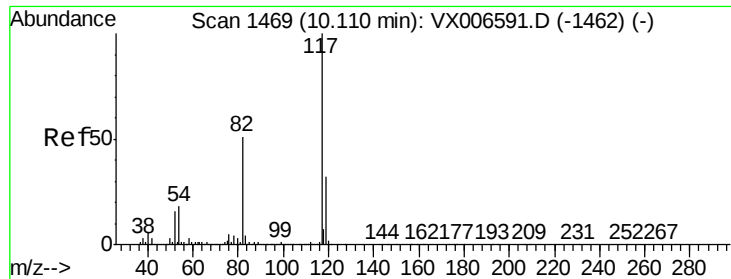
Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



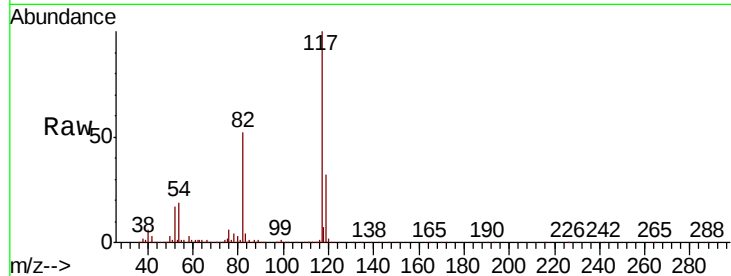
Time-->



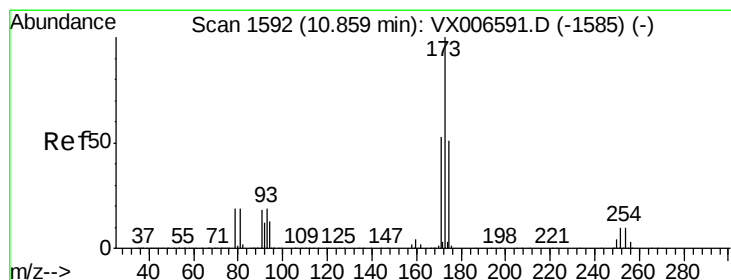
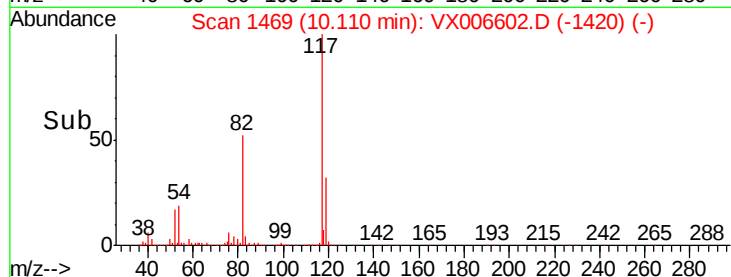
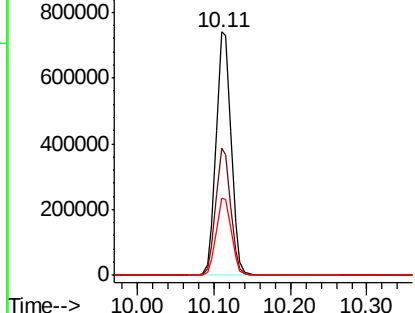
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Instrument :
MSVOA_X
ClientSampleId :
EB01-20181211

Tot Ion:117 Resp: 1014421
Ion Ratio Lower Upper
117 100
82 52.3 39.6 59.4
119 31.8 26.3 39.5

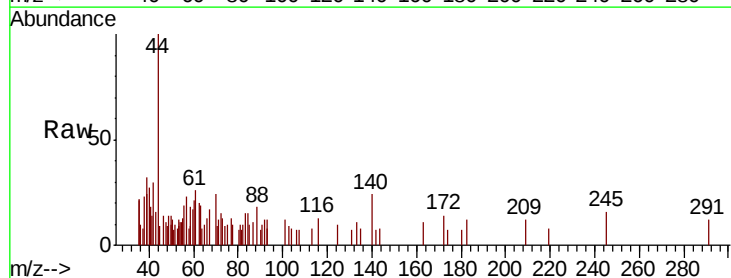


Abundance Ion 116.90 (116.60 to 117.60): V
1000000 Ion 82.00 (81.70 to 82.70): VX0
800000 Ion 118.90 (118.60 to 119.60): V
600000
400000
200000
0

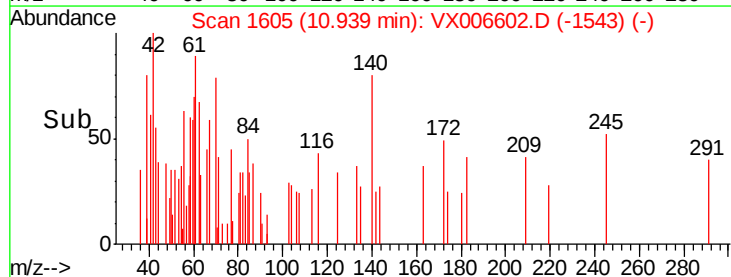
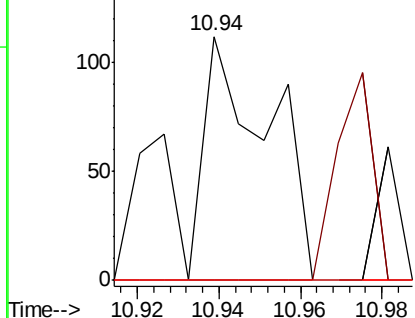


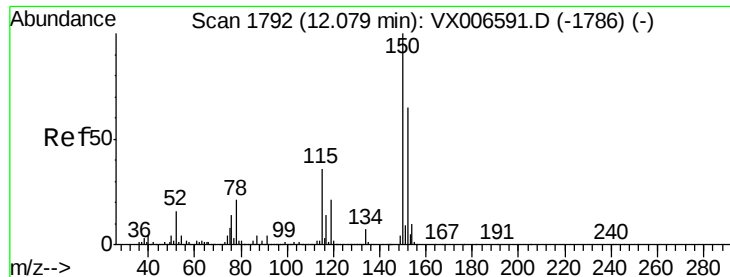
#71
Bromoform
Concen: 4.479 ug/l
RT: 10.94 min Scan# 1605
Delta R.T. 0.08 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Tgt Ion:173 Resp: 124
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
150 Ion 174.70 (174.40 to 175.40): V
100 Ion 254.40 (254.10 to 255.10): V
50
0



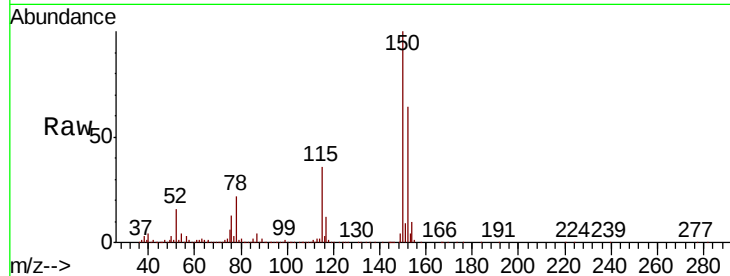


#72

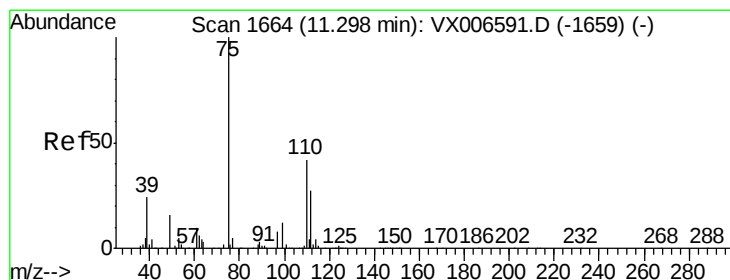
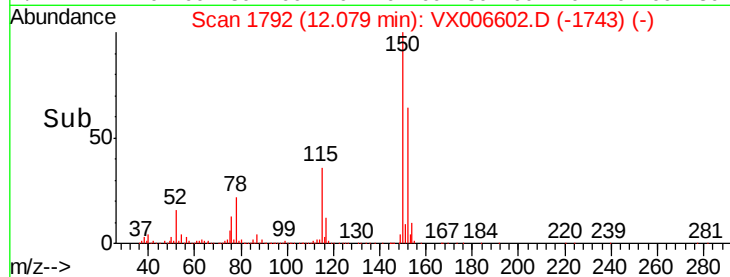
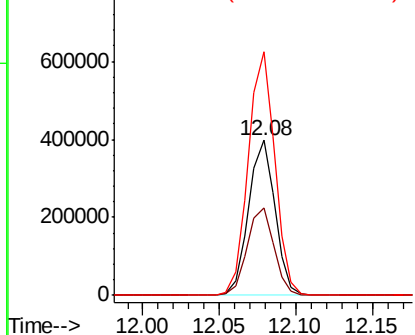
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Instrument :
MSVOA_X
ClientSampleId :
EB01-20181211

Tot Ion:152 Resp: 479586
Ion Ratio Lower Upper
152 100
115 57.4 39.0 116.9
150 157.5 0.0 345.8



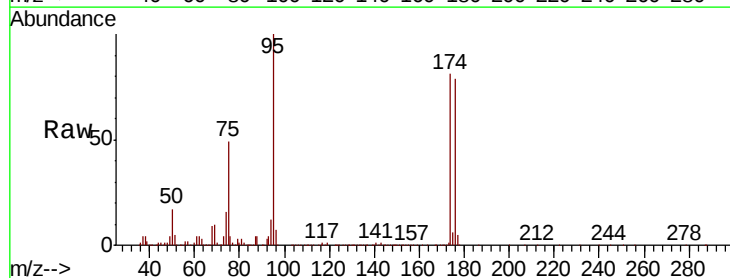
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



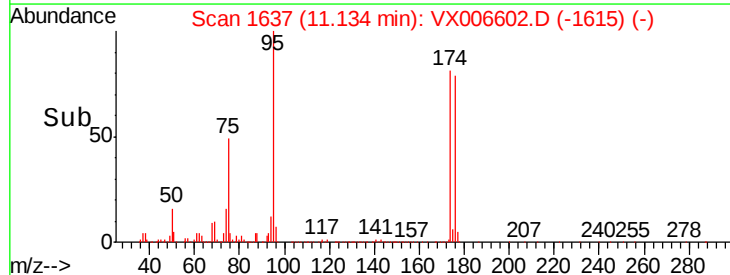
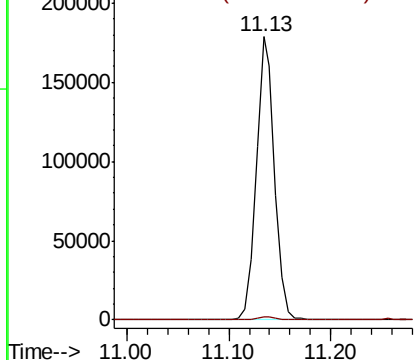
#76

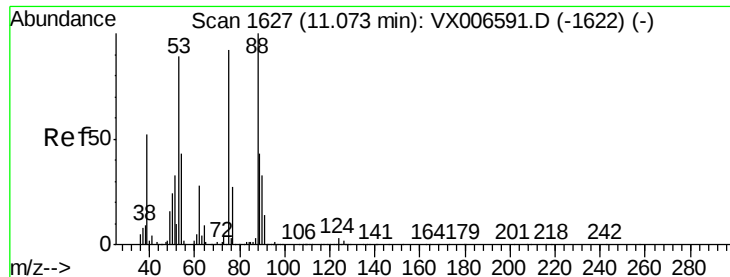
1,2,3-Trichloropropane
Concen: 26.552 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006602.D
Acq: 18 Dec 2018 17:11

Tgt Ion: 75 Resp: 223184
Ion Ratio Lower Upper
75 100
77 1.3 19.9 59.7#



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: 73.989 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006602.D

Acq: 18 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

EB01-20181211

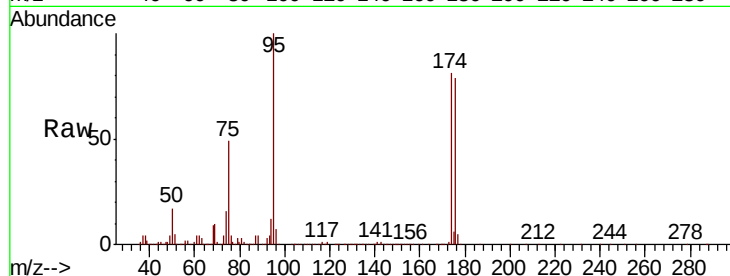
Tot Ion: 75 Resp: 223184

Ion Ratio Lower Upper

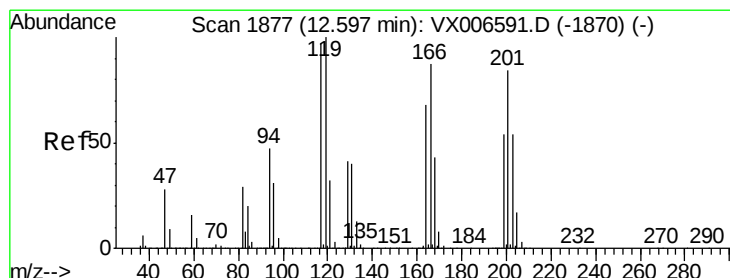
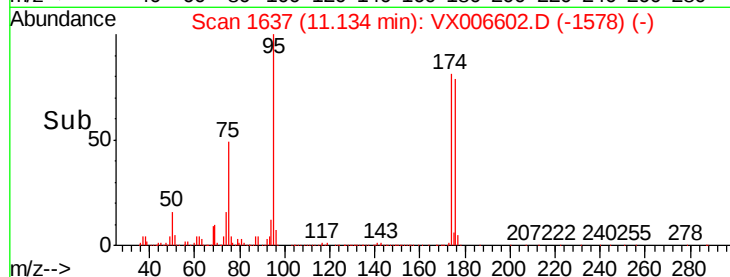
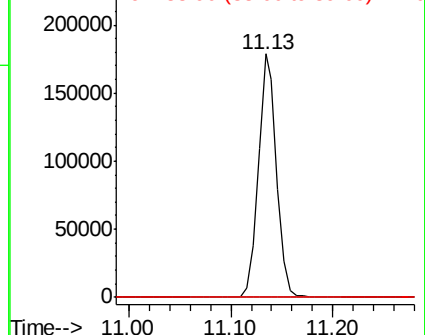
75 100

53 0.1 64.4 96.6#

89 0.0 44.2 66.4#



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



#90

Hexachloroethane

Concen: 3.332 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX006602.D

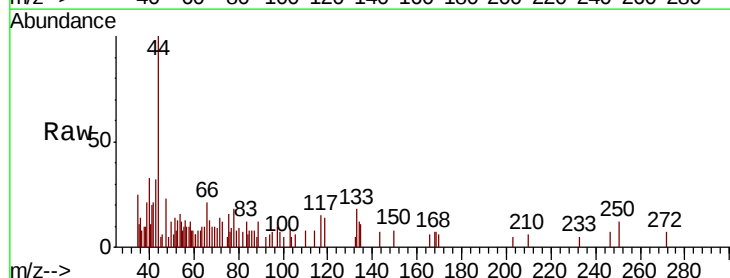
Acq: 18 Dec 2018 17:11

Tgt Ion: 117 Resp: 189

Ion Ratio Lower Upper

117 100

201 22.2 44.7 134.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

