

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006606.D
 Acq On : 18 Dec 2018 18:58
 Operator : JC/MD
 Sample : J6405-09RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D1-20181210

Quant Time: Dec 19 06:02:05 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	668416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1050650	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	966480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	466583	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	358926	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
35) Dibromofluoromethane	5.51	113	313605	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	8.71	98	1238098	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.13	95	460104	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	

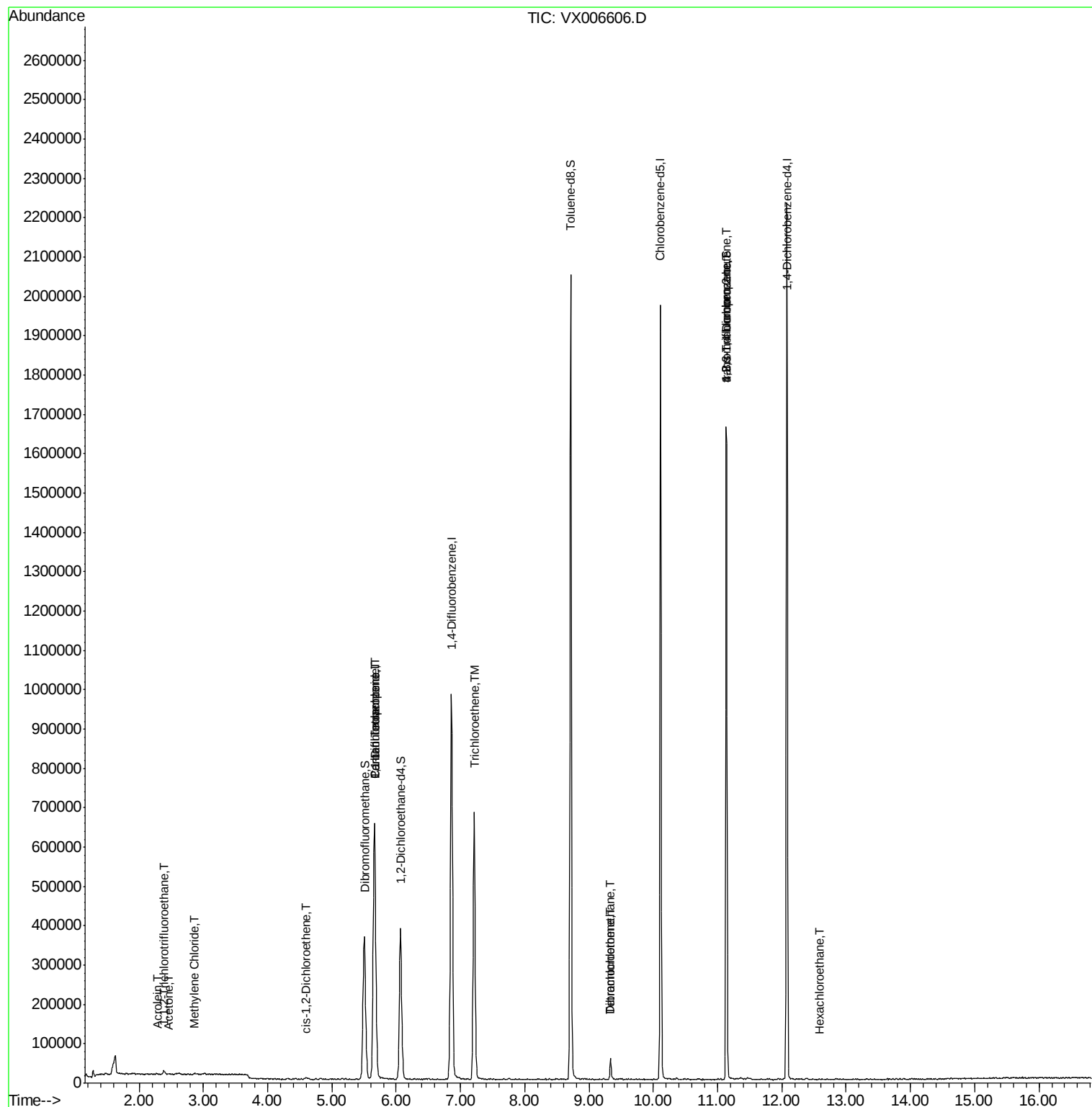
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	914	Below Cal	#	72
9) 1,1,2-Trichlorotrifluoroet	2.39	101	3300	0.524	ug/l	91
13) Acrolein	2.29	56	248	0.229	ug/l	83
16) Acetone	2.46	43	1907	0.576	ug/l	98
20) Methylene Chloride	2.85	84	1805	0.264	ug/l #	63
27) cis-1,2-Dichloroethene	4.59	96	1982	0.271	ug/l	52
28) Bromochloromethane	5.03	49	395	Below Cal	#	15
36) 1,1-Dichloropropene	5.67	75	44308	5.092	ug/l #	48
38) Carbon Tetrachloride	5.66	117	64180	7.589	ug/l #	15
44) Trichloroethene	7.21	130	274363	34.271	ug/l	100
49) 1,4-Dioxane	7.76	88	2861	Below Cal	#	60
60) Dibromochloromethane	9.34	129	10003	3.628	ug/l #	13
64) Tetrachloroethene	9.34	164	10357	1.353	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	213088	26.057	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	213088	72.689	ug/l #	15
90) Hexachloroethane	12.58	117	61	3.306	ug/l #	5

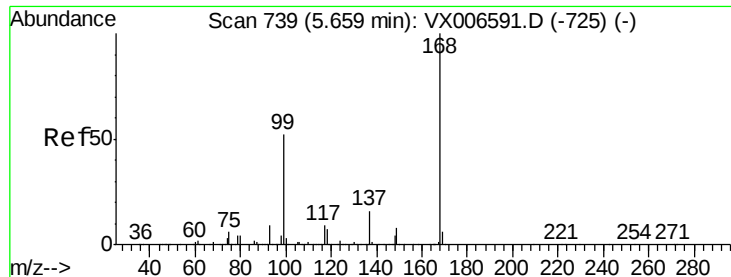
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

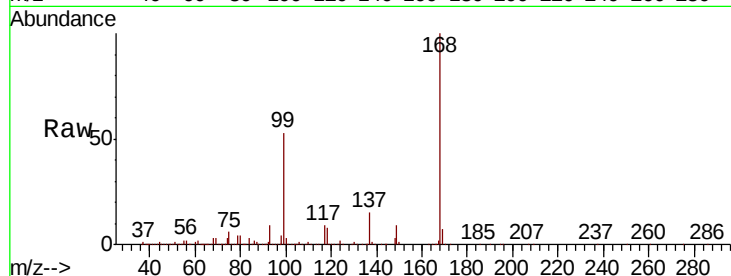
RE108D1-20181210

Tot Ion:168 Resp: 668416

Ion Ratio Lower Upper

168 100

99 53.3 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

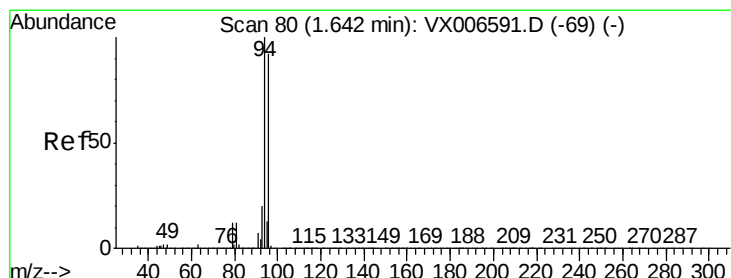
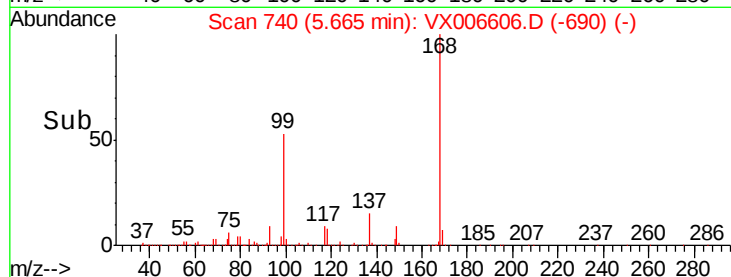
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006606.D

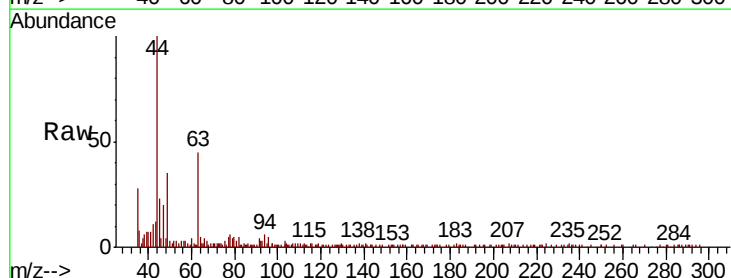
Acq: 18 Dec 2018 18:58

Tgt Ion: 94 Resp: 914

Ion Ratio Lower Upper

94 100

96 66.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

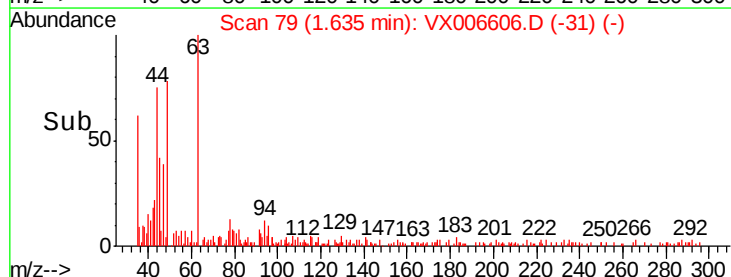
600

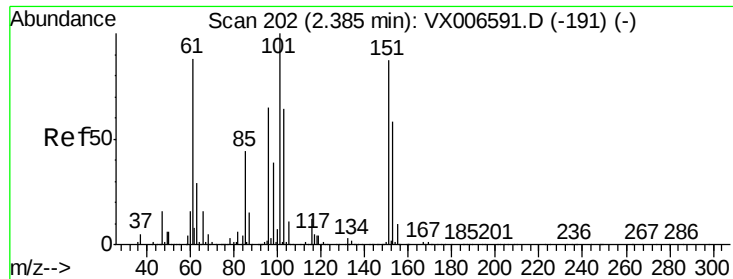
400

200

0

Time--> 1.60 1.62 1.64 1.66 1.68





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.524 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20181210

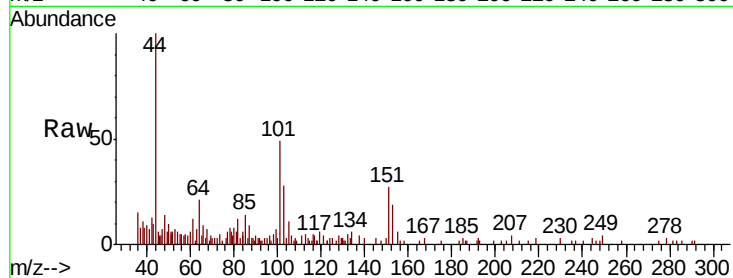
Tot Ion:101 Resp: 3300

Ion Ratio Lower Upper

101 100

85 45.8 35.5 53.3

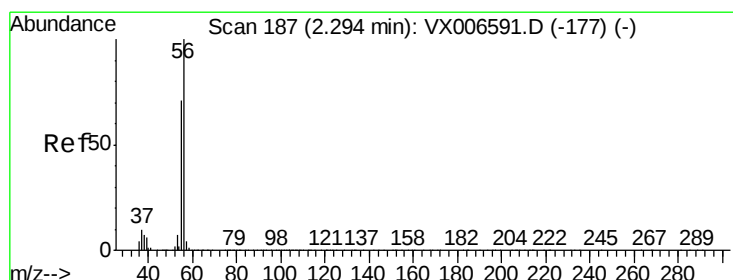
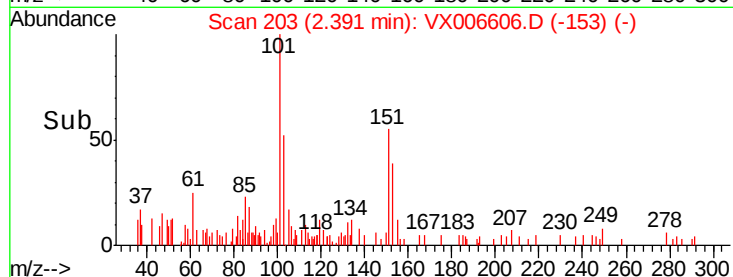
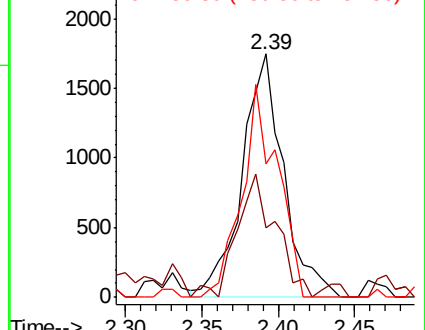
151 74.6 68.6 103.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#13

Acrolein

Concen: 0.229 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006606.D

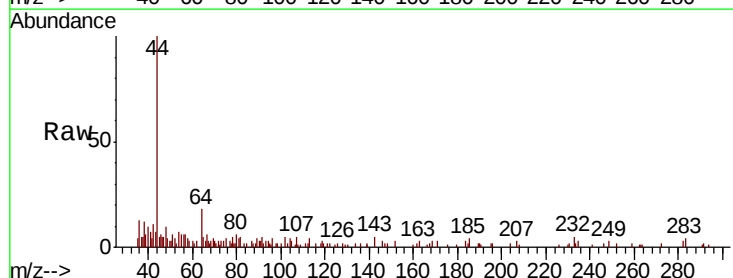
Acq: 18 Dec 2018 18:58

Tgt Ion: 56 Resp: 248

Ion Ratio Lower Upper

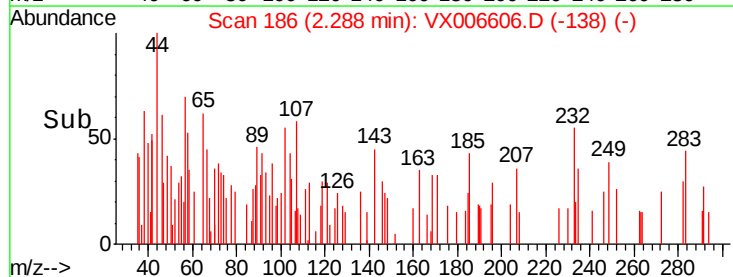
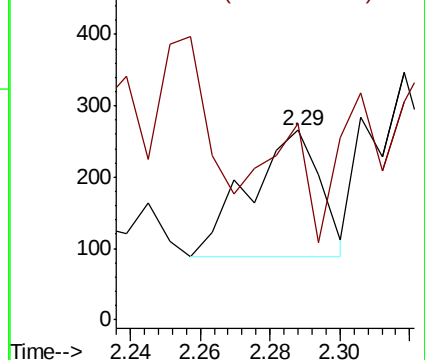
56 100

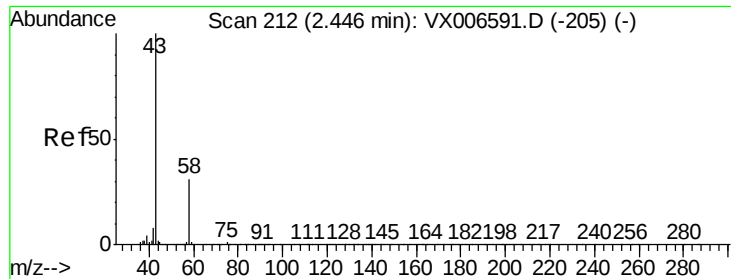
55 58.1 57.8 86.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.576 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

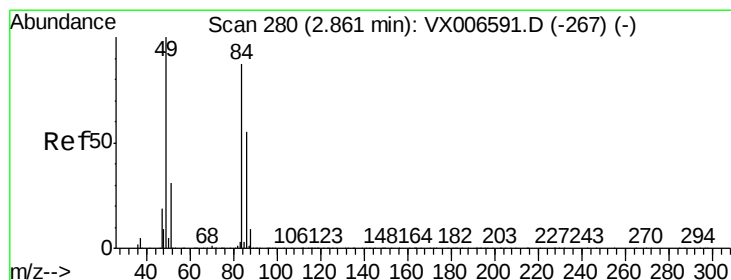
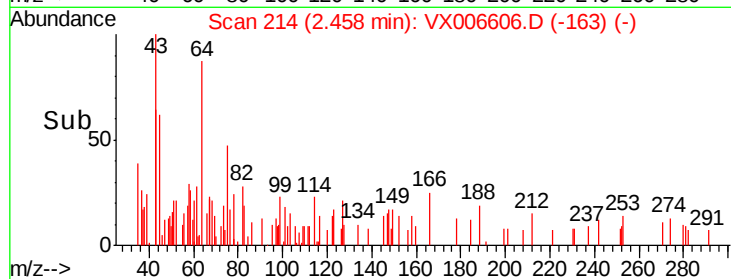
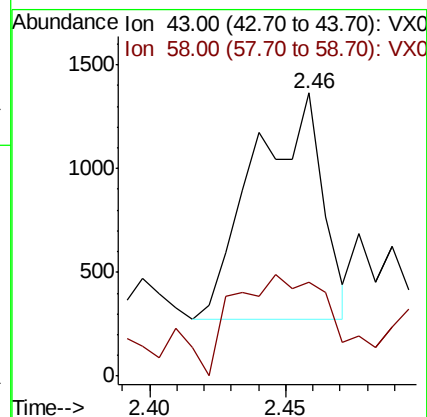
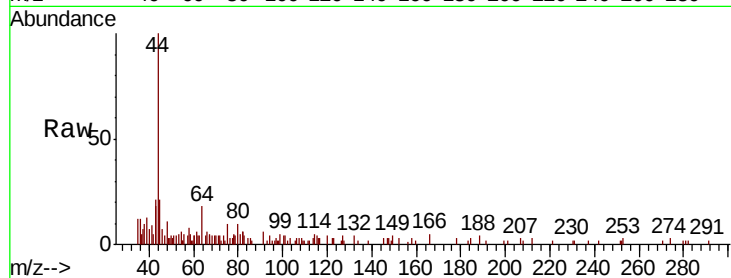
RE108D1-20181210

Tot Ion: 43 Resp: 1907

Ion Ratio Lower Upper

43 100

58 29.1 24.0 36.0



#20

Methylene Chloride

Concen: 0.264 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Tgt Ion: 84 Resp: 1805

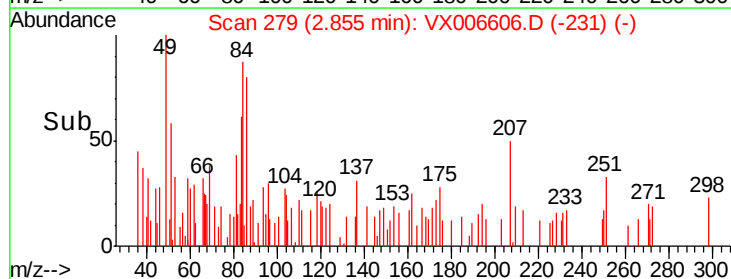
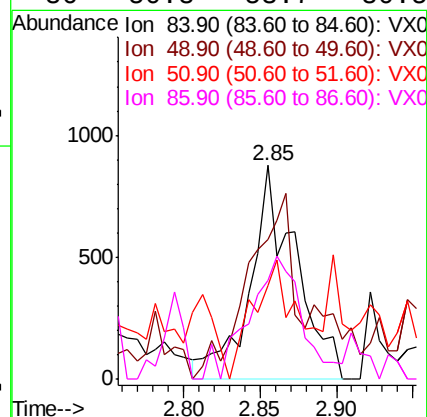
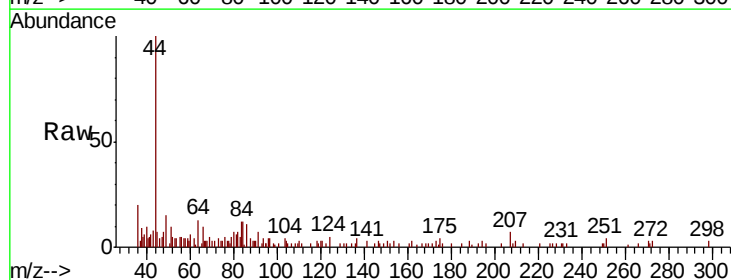
Ion Ratio Lower Upper

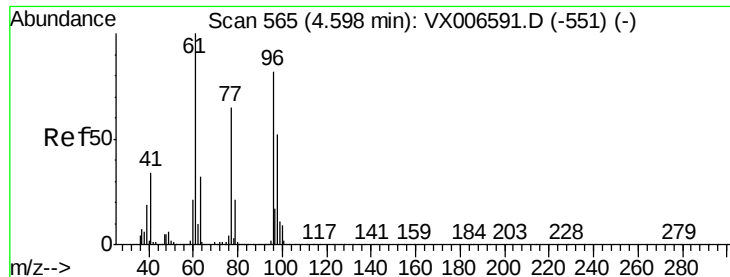
84 100

49 72.1 102.2 153.4#

51 20.1 31.1 46.7#

86 50.8 53.7 80.5#



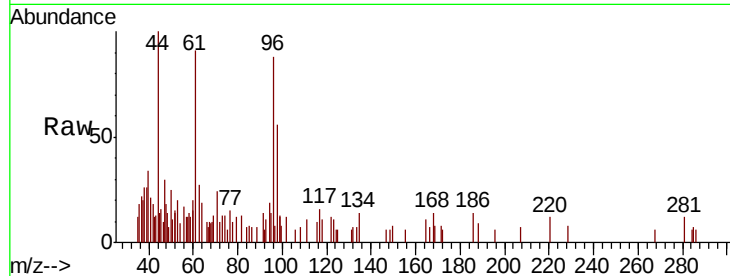


#27

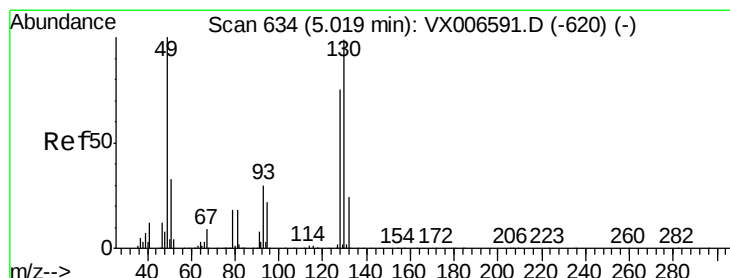
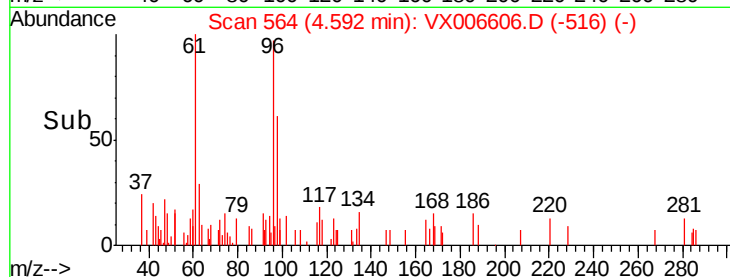
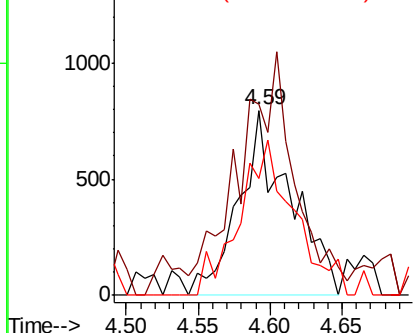
cis-1,2-Dichloroethene
 Concen: 0.271 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX006606.D
 Acq: 18 Dec 2018 18:58

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D1-20181210

Tot Ion	Ratio	Lower	Upper
96	100		
61	65.8	0.0	265.0
98	89.5	0.0	130.2



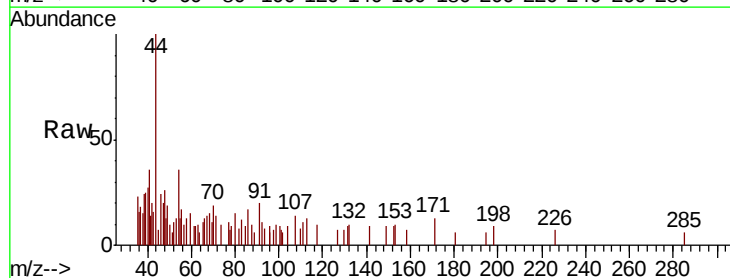
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



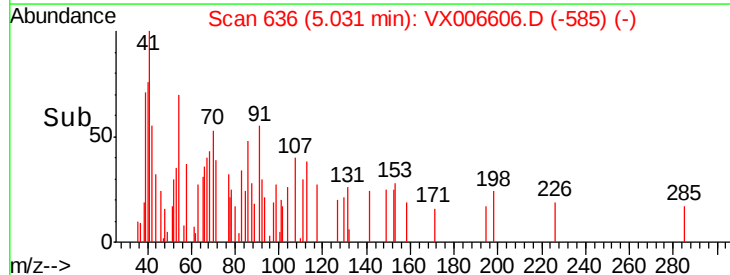
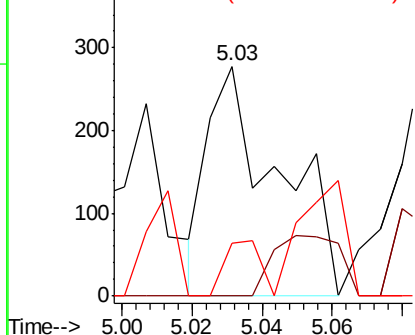
#28

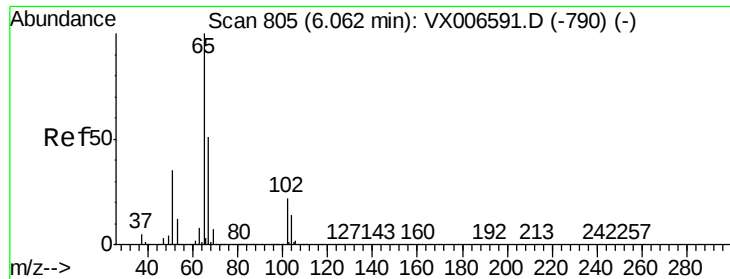
Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 636
 Delta R.T. 0.01 min
 Lab File: VX006606.D
 Acq: 18 Dec 2018 18:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	12.2	78.3	117.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 49.824 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

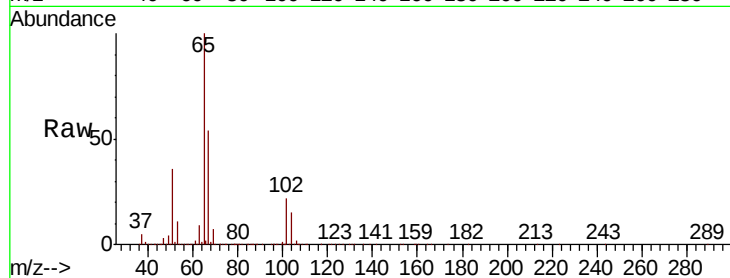
RE108D1-20181210

Tot Ion: 65 Resp: 358926

Ion Ratio Lower Upper

65 100

67 53.8 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

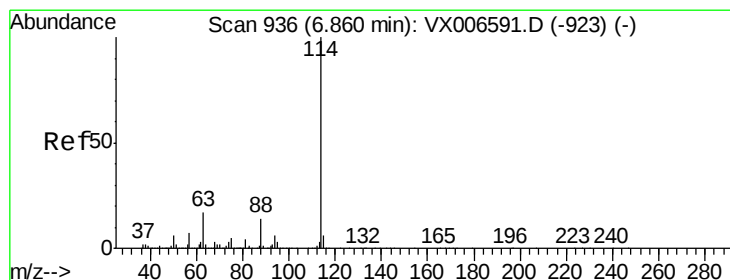
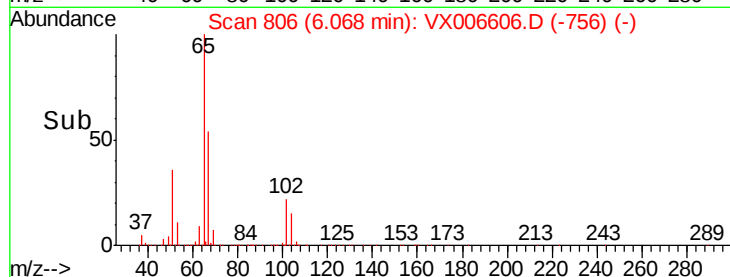
150000

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: VX006606.D

Acq: 18 Dec 2018 18:58

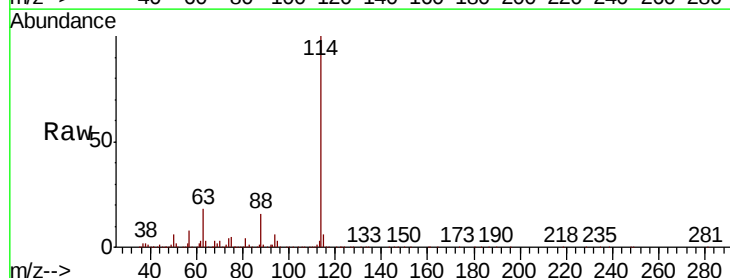
Tgt Ion: 114 Resp: 1050650

Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.6

88 15.7 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

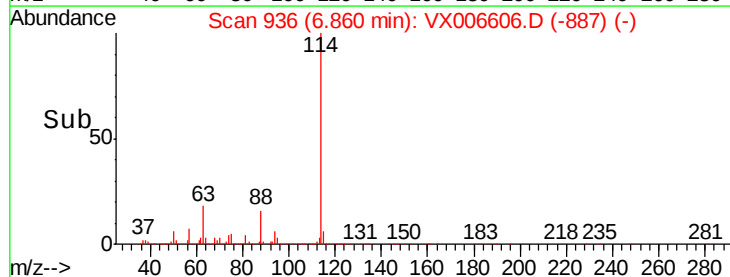
300000

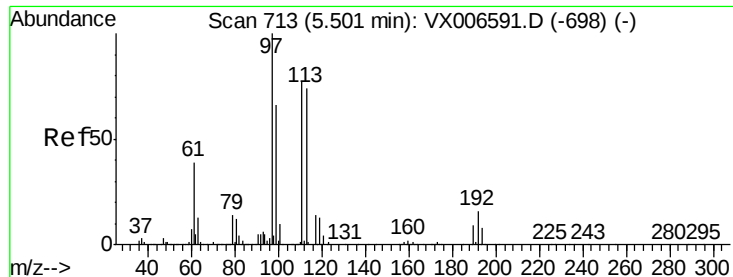
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.200 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20181210

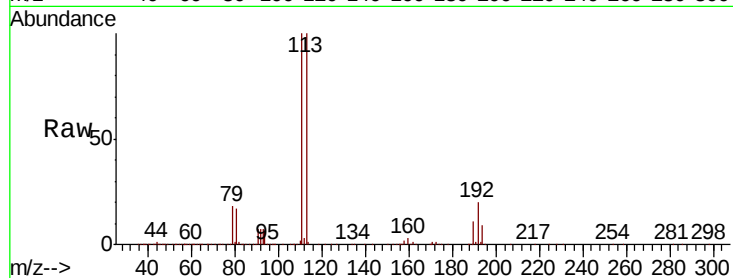
Tot Ion:113 Resp: 313605

Ion Ratio Lower Upper

113 100

111 101.2 81.1 121.7

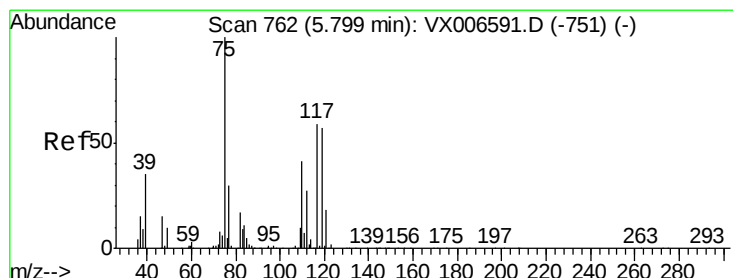
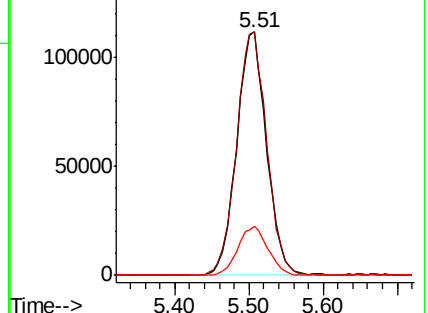
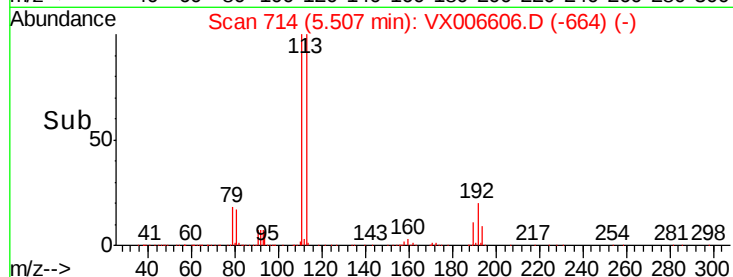
192 20.5 18.2 27.2



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: 5.092 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

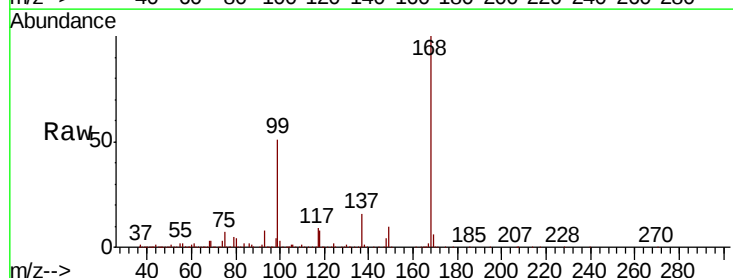
Tgt Ion: 75 Resp: 44308

Ion Ratio Lower Upper

75 100

110 10.2 20.4 61.3#

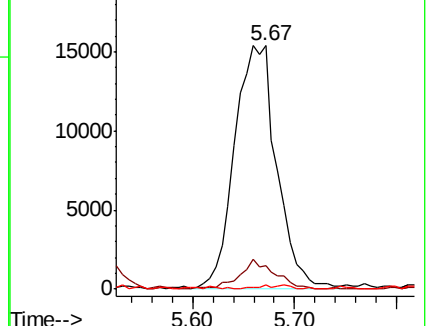
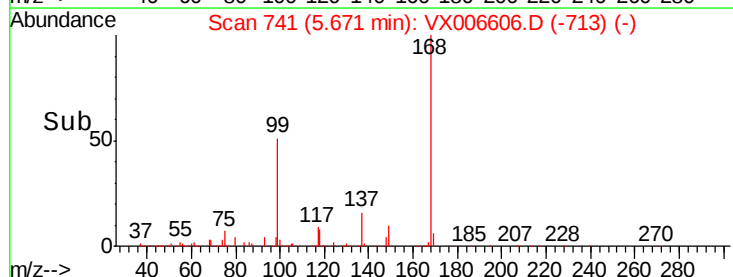
77 0.6 24.9 37.3#

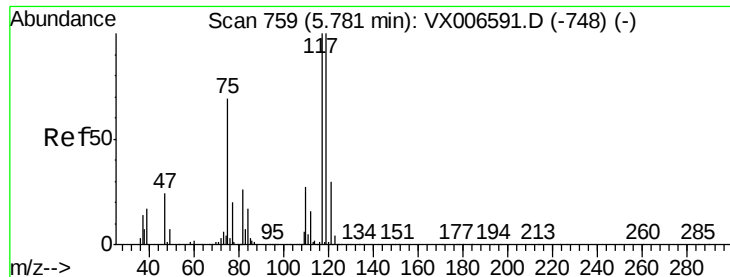


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

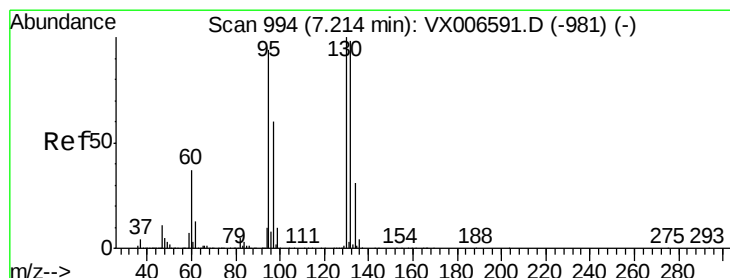
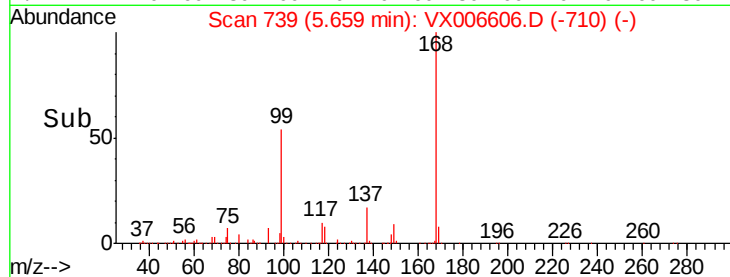
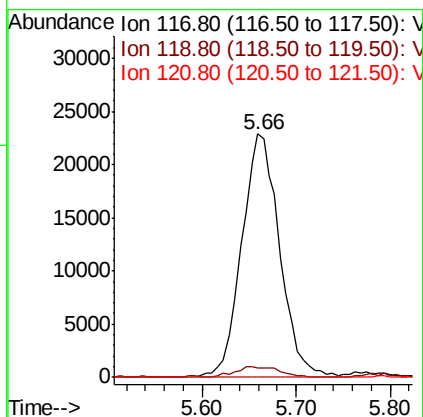
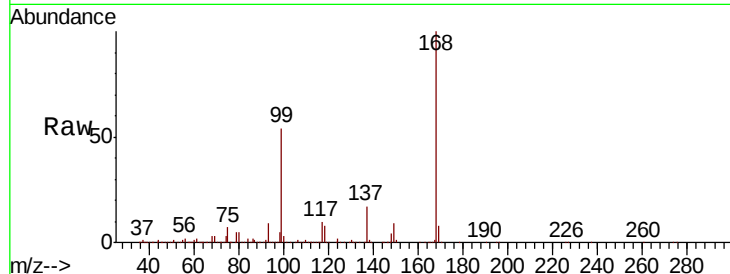




#38
Carbon Tetrachloride
Concen: 7.589 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX006606.D
Acq: 18 Dec 2018 18:58

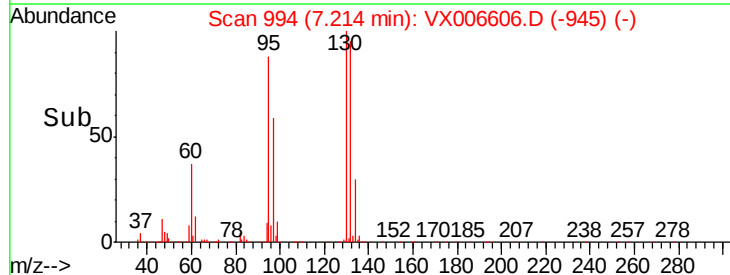
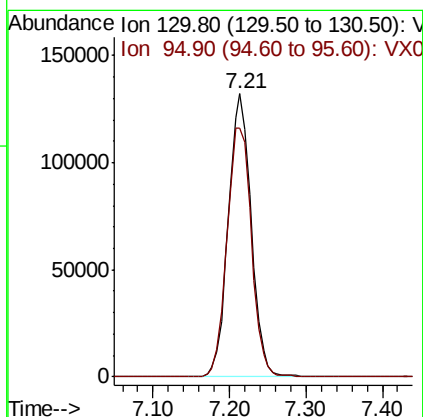
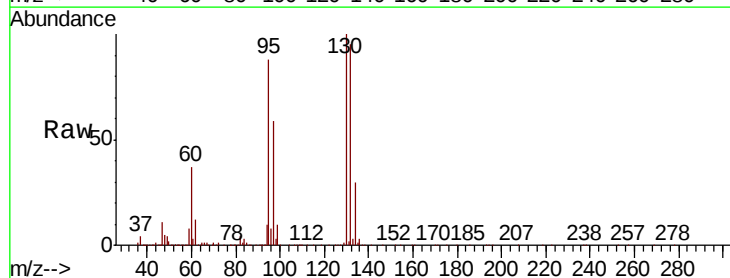
Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20181210

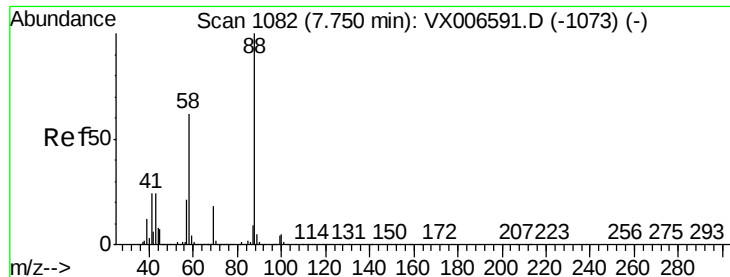
Tot Ion:117 Resp: 64180
Ion Ratio Lower Upper
117 100
119 3.4 75.8 113.8#
121 0.0 24.6 37.0#



#44
Trichloroethene
Concen: 34.271 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX006606.D
Acq: 18 Dec 2018 18:58

Tgt Ion:130 Resp: 274363
Ion Ratio Lower Upper
130 100
95 88.0 0.0 175.8





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20181210

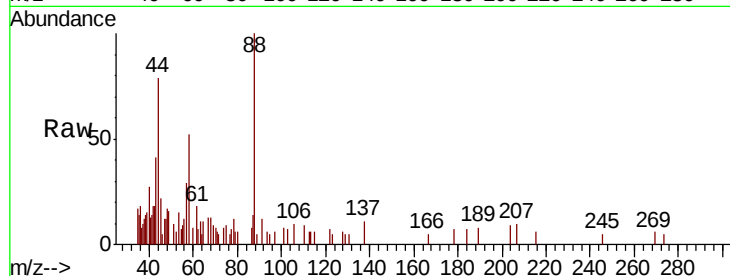
Tot Ion: 88 Resp: 2861

Ion Ratio Lower Upper

88 100

43 41.8 23.2 34.8#

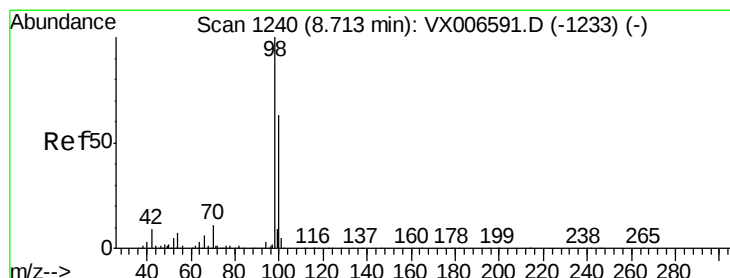
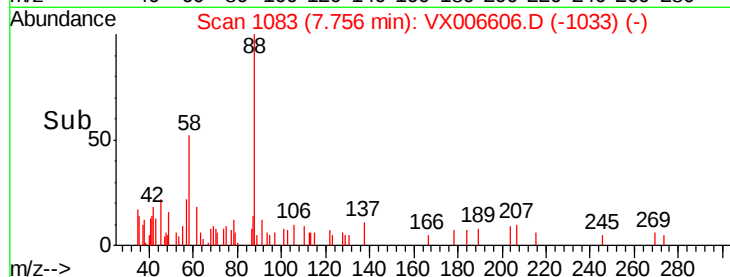
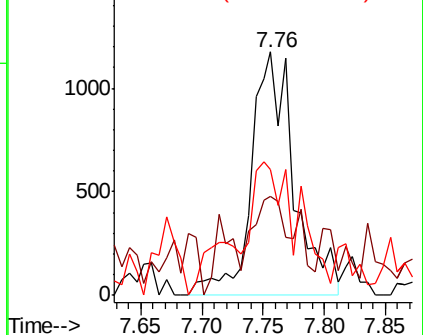
58 26.6 51.4 77.0#



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: 49.428 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006606.D

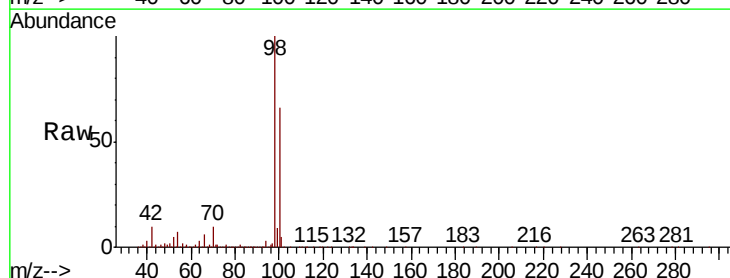
Acq: 18 Dec 2018 18:58

Tgt Ion: 98 Resp: 1238098

Ion Ratio Lower Upper

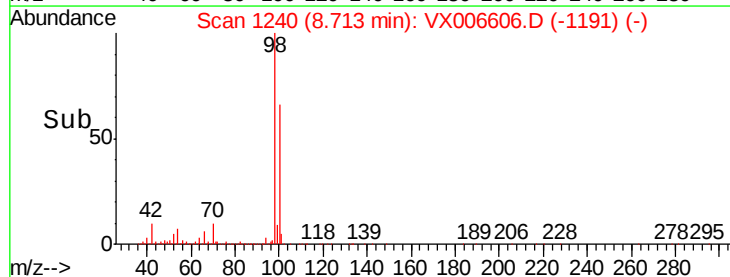
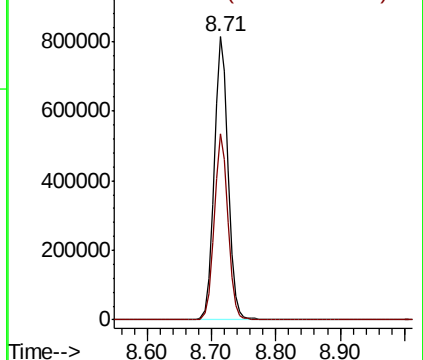
98 100

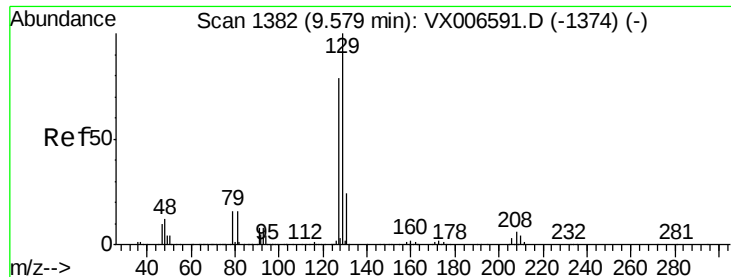
100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 3.628 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

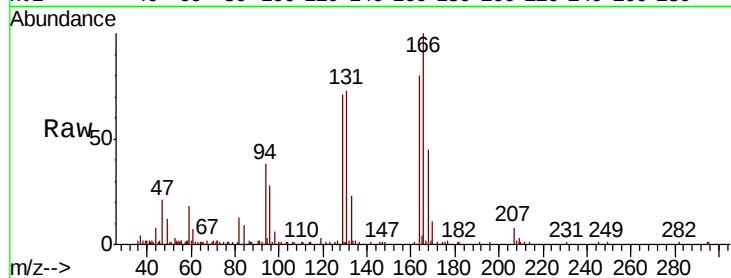
RE108D1-20181210

Tot Ion:129 Resp: 10003

Ion Ratio Lower Upper

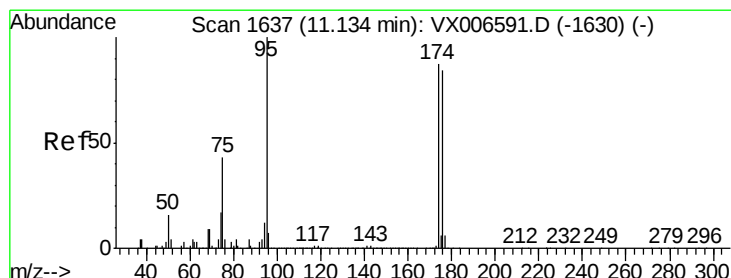
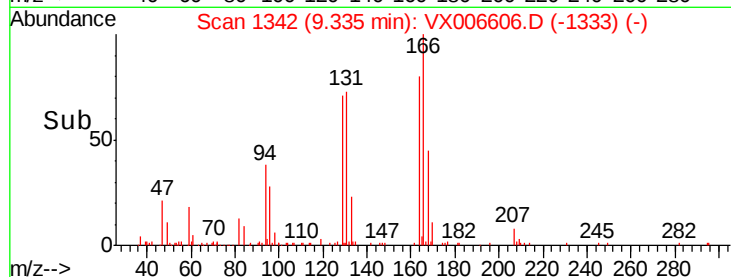
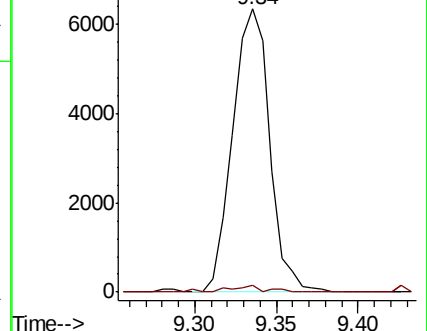
129 100

127 2.1 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 50.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

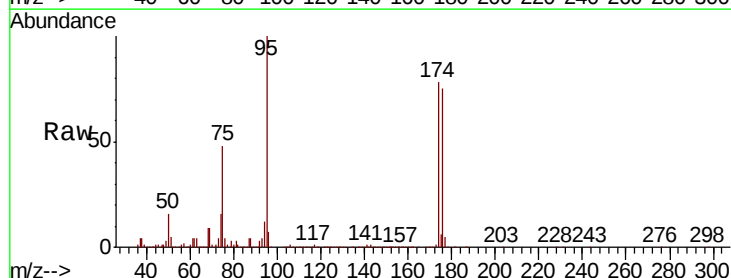
Tgt Ion: 95 Resp: 460104

Ion Ratio Lower Upper

95 100

174 84.9 0.0 187.0

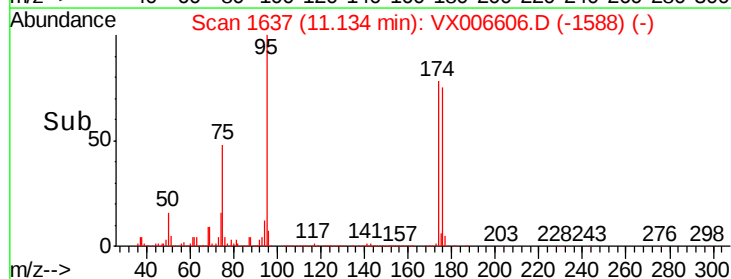
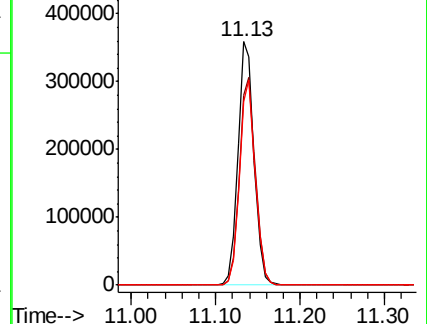
176 82.6 0.0 181.8

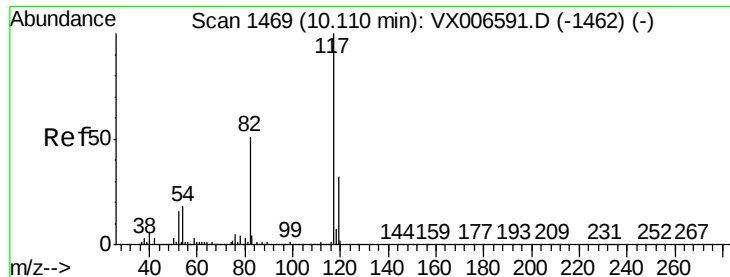


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

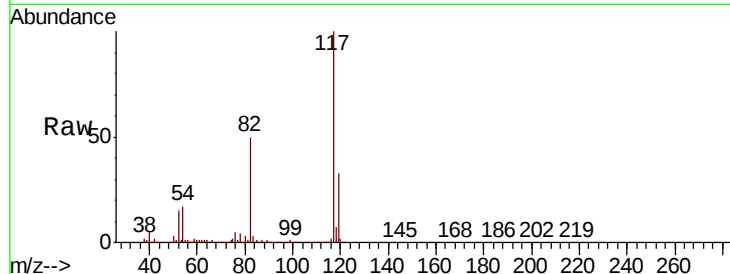




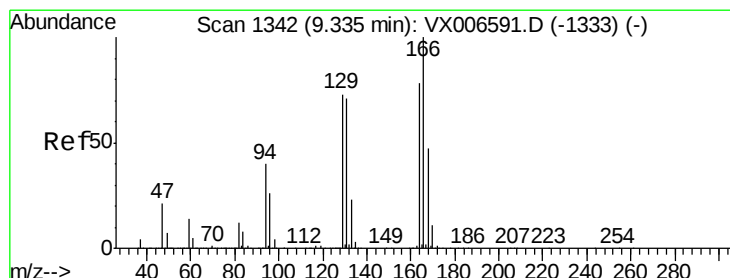
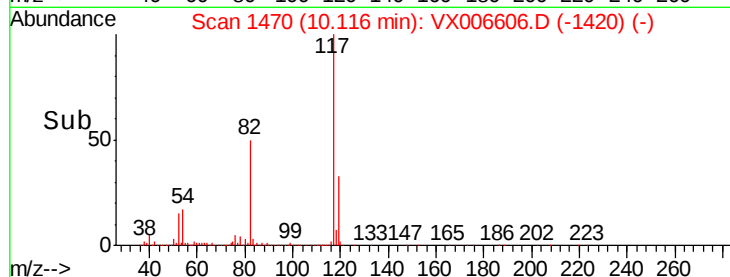
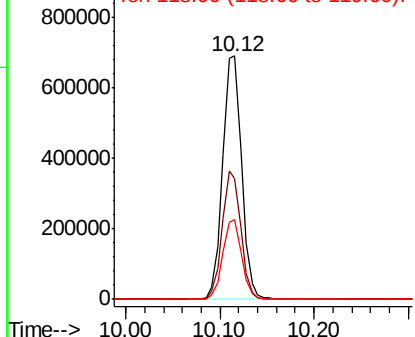
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006606.D
Acq: 18 Dec 2018 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20181210

Tot Ion:117 Resp: 966480
Ion Ratio Lower Upper
117 100
82 49.5 39.6 59.4
119 32.8 26.3 39.5

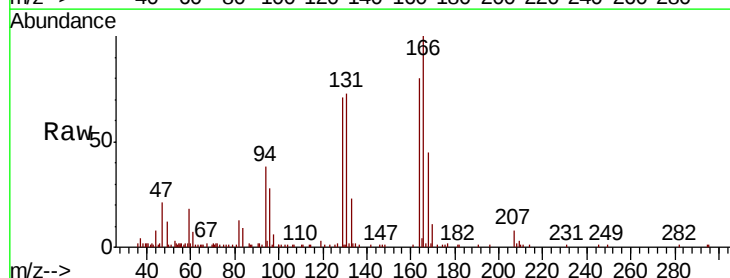


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

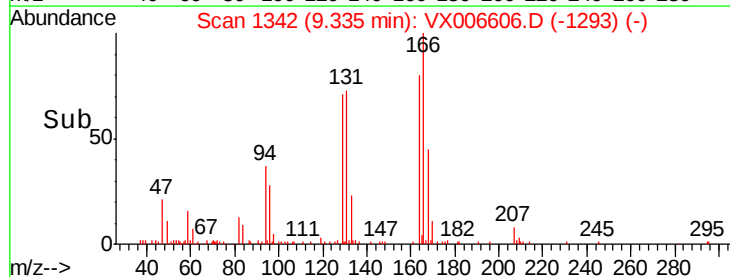
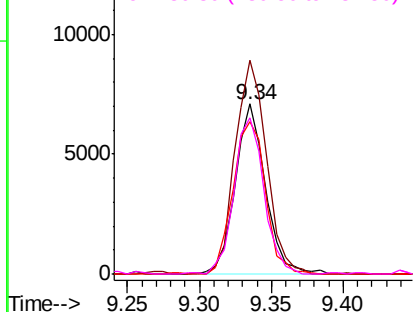


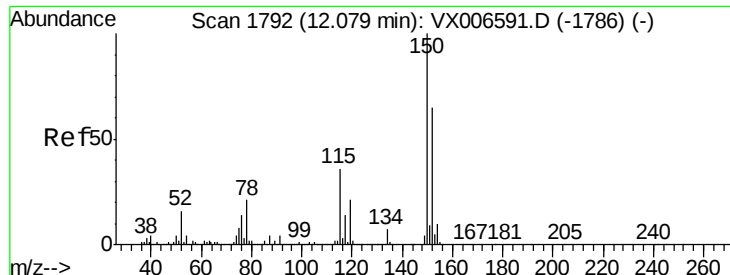
#64
Tetrachloroethene
Concen: 1.353 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006606.D
Acq: 18 Dec 2018 18:58

Tgt Ion:164 Resp: 10357
Ion Ratio Lower Upper
164 100
166 125.6 104.2 156.2
129 89.4 72.6 108.8
131 91.2 70.3 105.5



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20181210

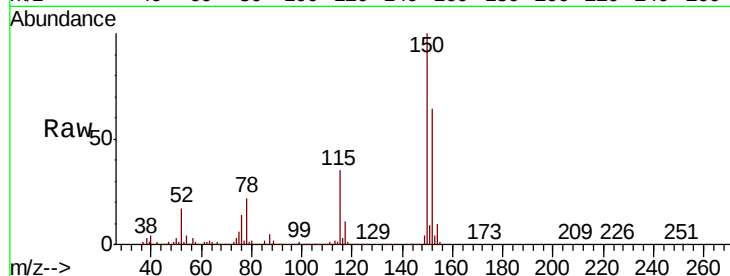
Tot Ion:152 Resp: 466583

Ion Ratio Lower Upper

152 100

115 56.5 39.0 116.9

150 155.4 0.0 345.8

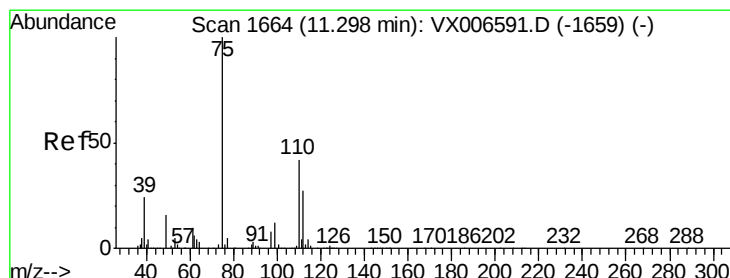
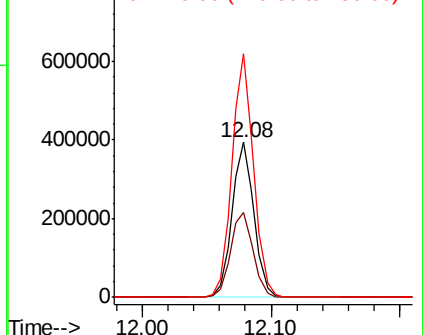
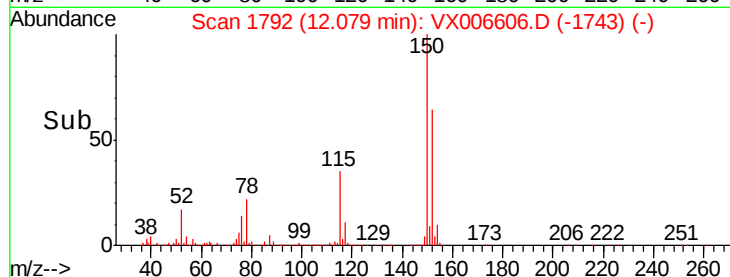


Abundance

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: 26.057 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006606.D

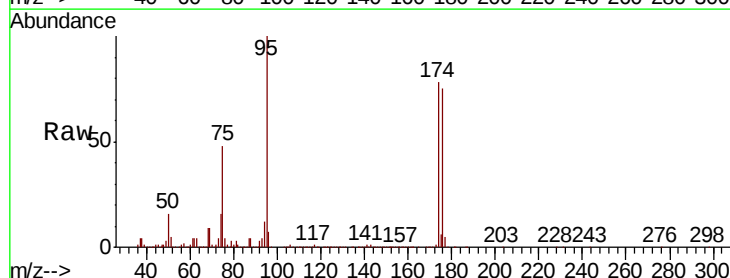
Acq: 18 Dec 2018 18:58

Tgt Ion: 75 Resp: 213088

Ion Ratio Lower Upper

75 100

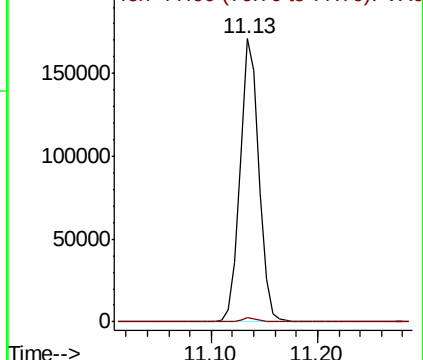
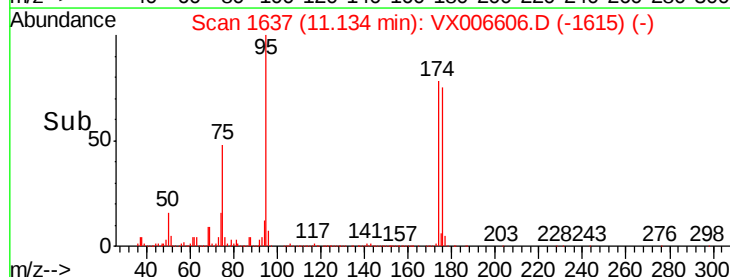
77 1.3 19.9 59.7#

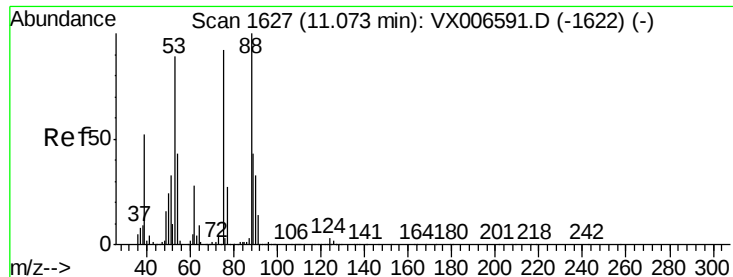


Abundance

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: 72.689 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006606.D

Acq: 18 Dec 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20181210

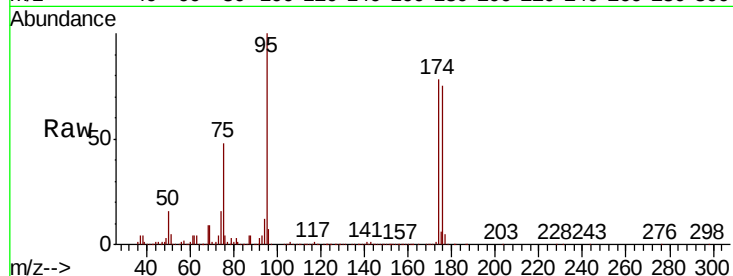
Tot Ion: 75 Resp: 213088

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

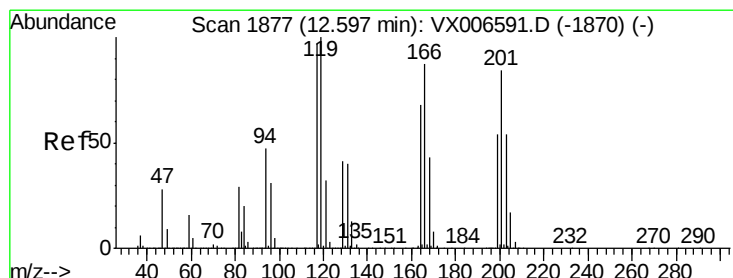
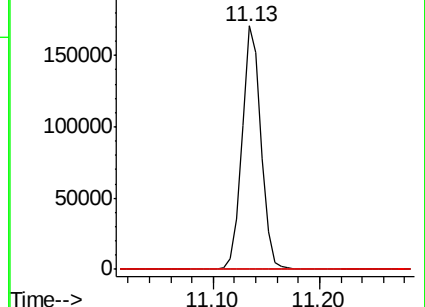
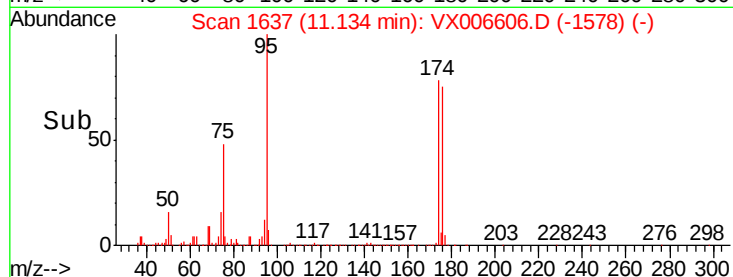
89 0.0 44.2 66.4#



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: 3.306 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006606.D

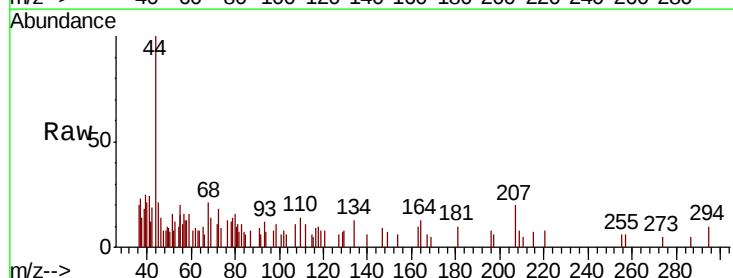
Acq: 18 Dec 2018 18:58

Tgt Ion: 117 Resp: 61

Ion Ratio Lower Upper

117 100

201 0.0 44.7 134.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

