

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121018\
 Data File : VX006393.D
 Acq On : 11 Dec 2018 02:25
 Operator : JC/MD
 Sample : J6324-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-103D2-20181205

Quant Time: Dec 11 04:59:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	713849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1128779	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1018279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	486990	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	374005	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
35) Dibromofluoromethane	5.51	113	347218	47.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.02%	
50) Toluene-d8	8.71	98	1315530	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
62) 4-Bromofluorobenzene	11.13	95	489235	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	

Target Compounds

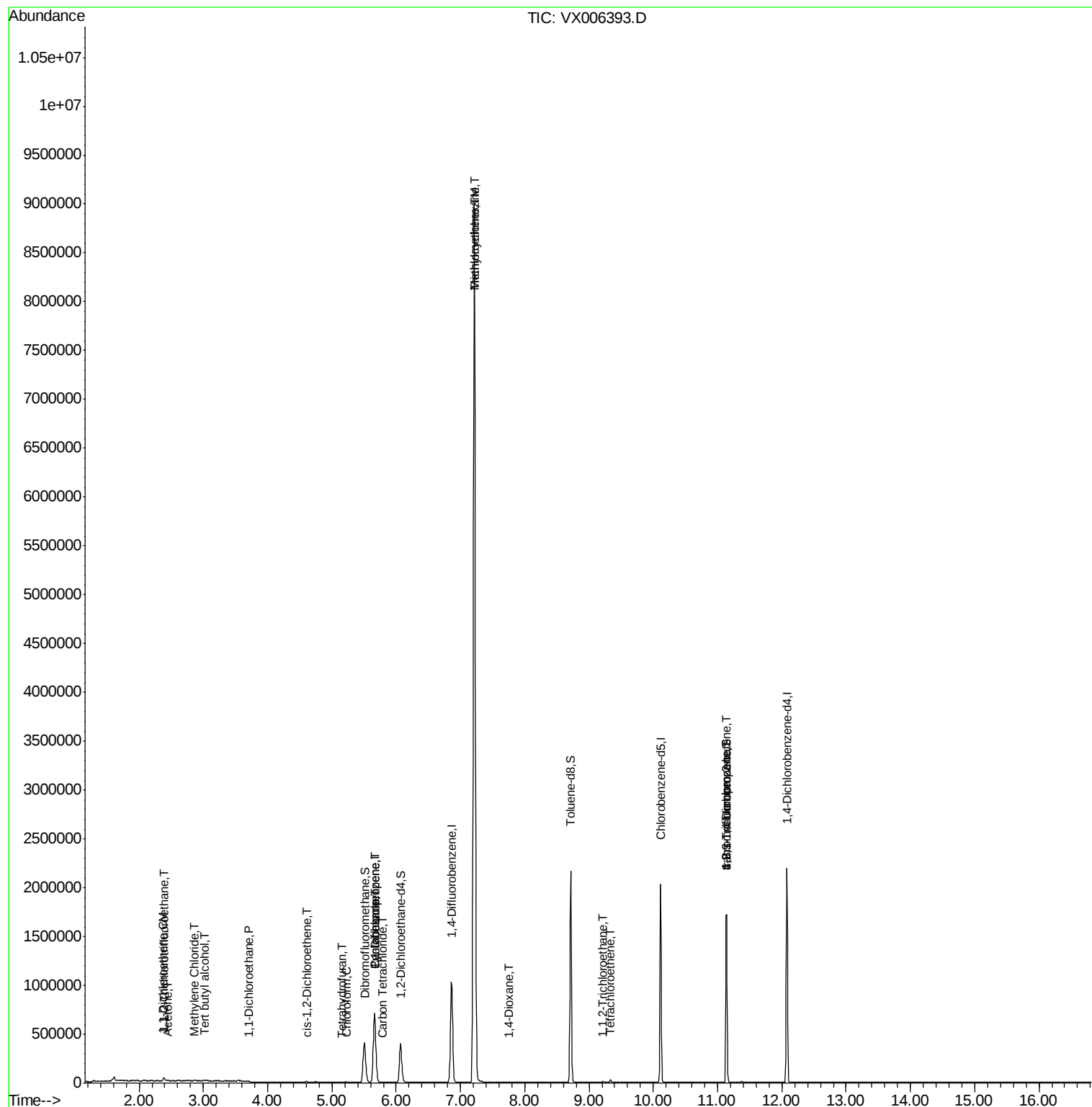
						Qvalue
9) 1,1,2-Trichlorotrifluoroet	2.39	101	12042	1.785	ug/l	95
11) Tert butyl alcohol	3.03	59	6750	3.387	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	3778	0.585	ug/l	86
16) Acetone	2.44	43	6962	2.036	ug/l	95
20) Methylene Chloride	2.85	84	2676	0.368	ug/l #	91
24) 1,1-Dichloroethane	3.71	63	5232	0.459	ug/l #	94
27) cis-1,2-Dichloroethene	4.60	96	4693	0.611	ug/l	87
29) Tetrahydrofuran	5.16	42	1220	0.360	ug/l #	72
30) Chloroform	5.22	83	7268	0.607	ug/l	89
31) Cyclohexane	5.66	56	10842	1.030	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	46415	4.883	ug/l #	49
38) Carbon Tetrachloride	5.79	117	2596	0.232	ug/l #	79
39) Methylcyclohexane	7.21	83	40548	3.286	ug/l #	1
44) Trichloroethene	7.21	130	3682132	426.928	ug/l	94
49) 1,4-Dioxane	7.76	88	682	3.205	ug/l #	73
55) 1,1,2-Trichloroethane	9.21	97	2391	0.314	ug/l #	73
64) Tetrachloroethene	9.34	164	5425	0.707	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	221313	23.545	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	221313	55.253	ug/l #	15

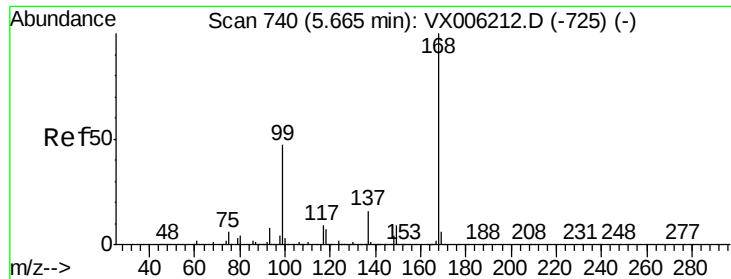
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 30 03:55:33 2018
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: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

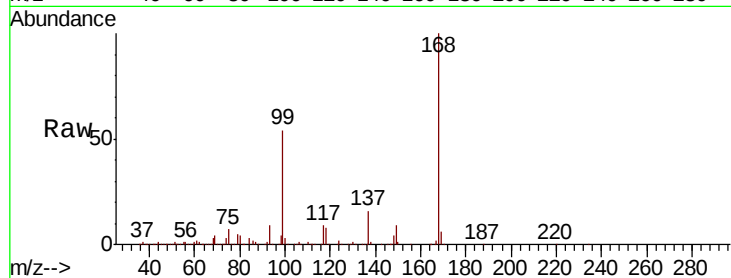
RE-103D2-20181205

Tot Ion:168 Resp: 713849

Ion Ratio Lower Upper

168 100

99 54.0 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

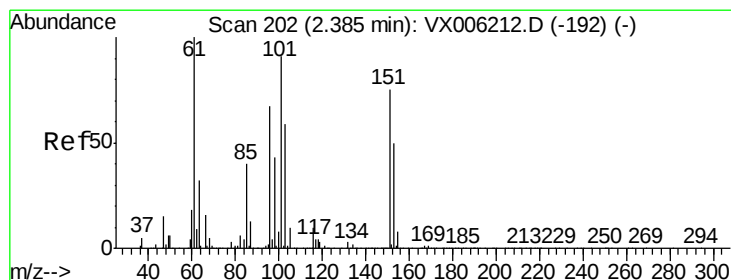
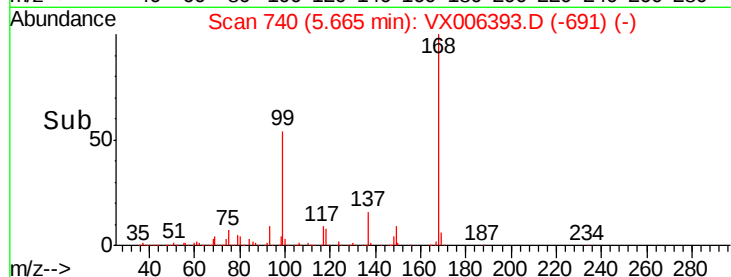
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.785 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

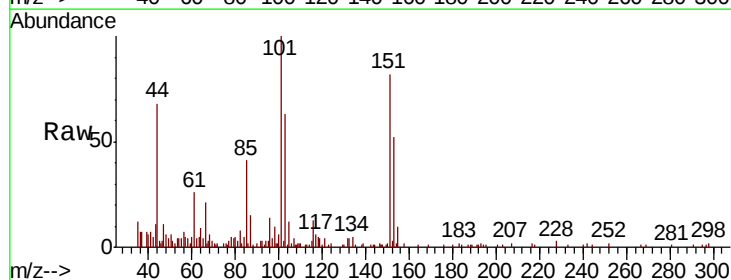
Tgt Ion:101 Resp: 12042

Ion Ratio Lower Upper

101 100

85 46.9 35.5 53.3

151 90.5 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

2.39

8000

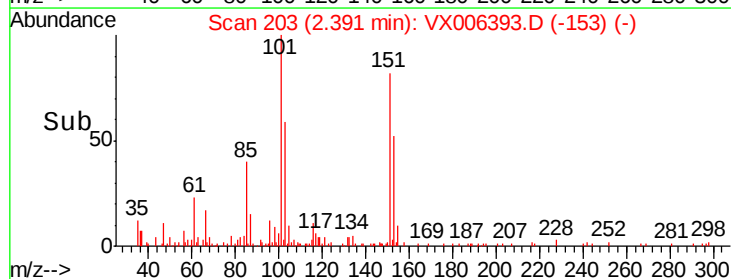
6000

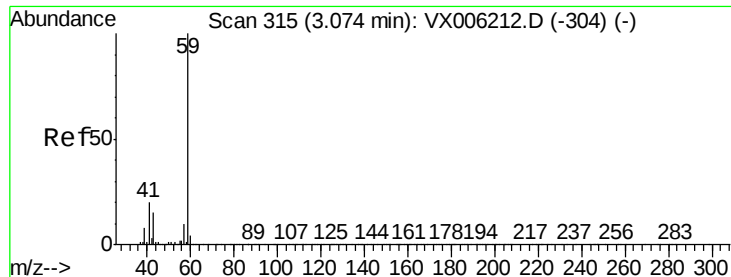
4000

2000

0

Time-->



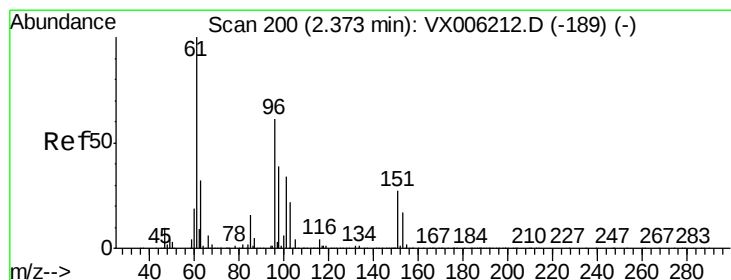
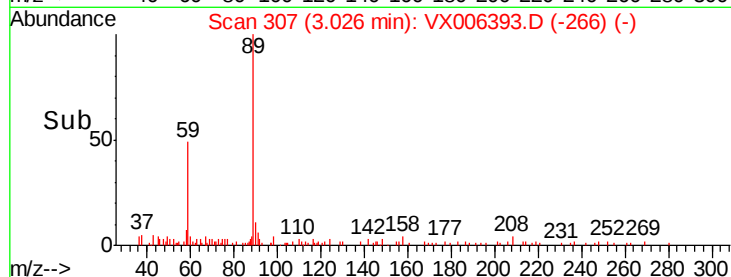
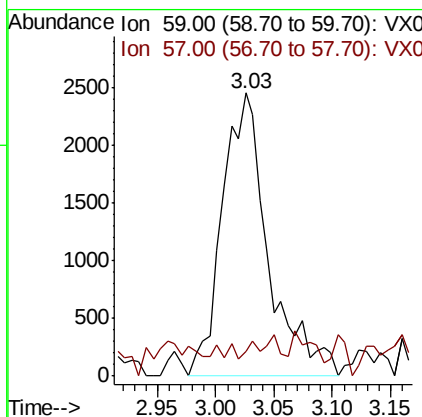
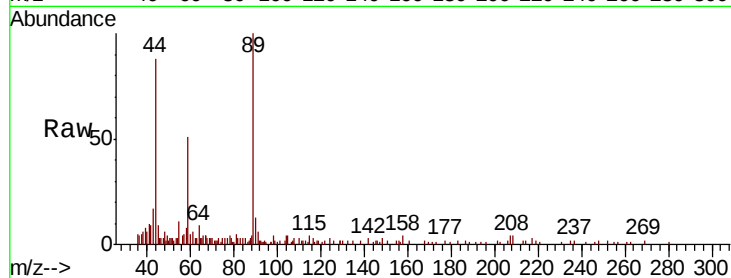


#11

Tert butyl alcohol
 Concen: 3.387 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX006393.D
 Acq: 11 Dec 2018 02:25

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-103D2-20181205

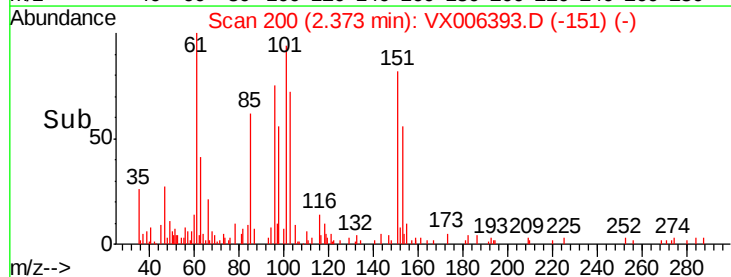
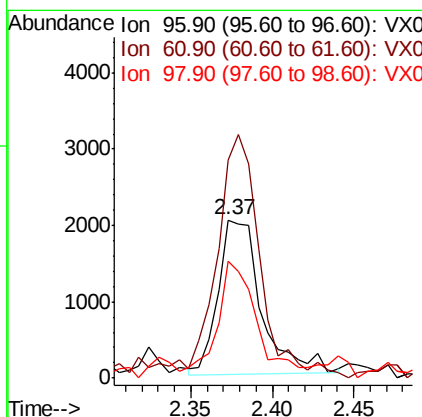
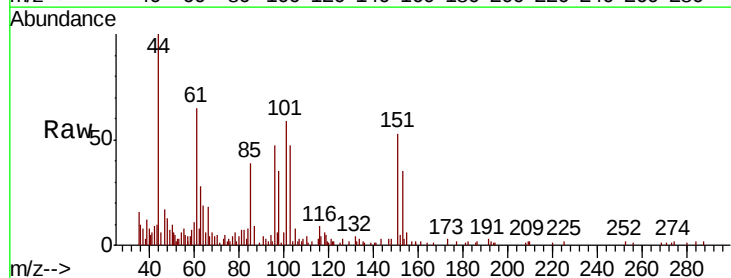
Tot Ion: 59 Resp: 6750
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.2 12.2#

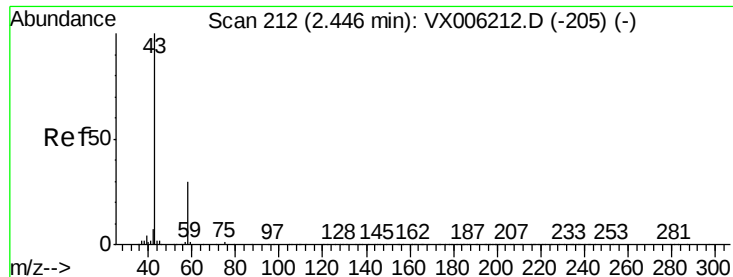


#12

1,1-Dichloroethene
 Concen: 0.585 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX006393.D
 Acq: 11 Dec 2018 02:25

Tgt Ion: 96 Resp: 3778
 Ion Ratio Lower Upper
 96 100
 61 142.5 131.7 197.5
 98 71.9 51.8 77.6

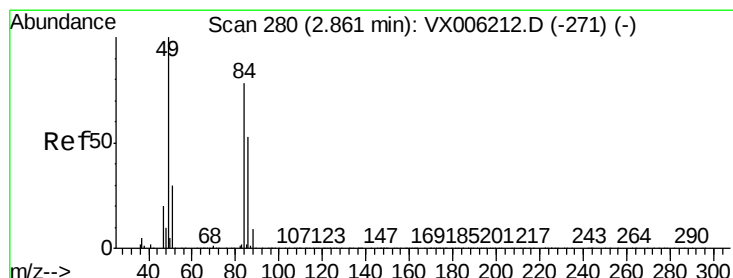
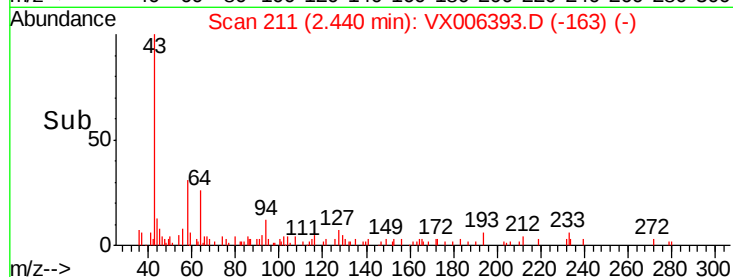
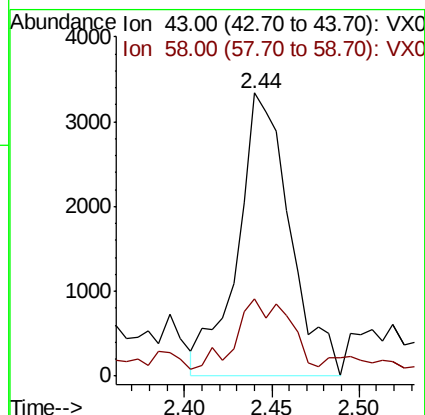
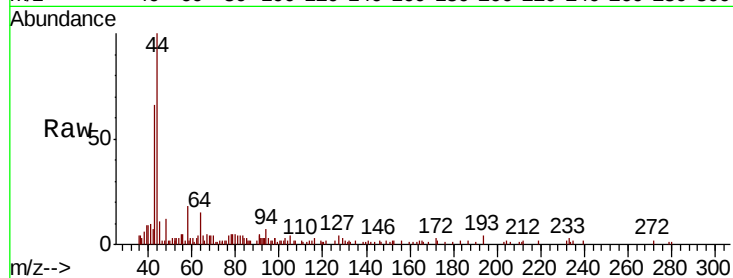




#16
Acetone
Concen: 2.036 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

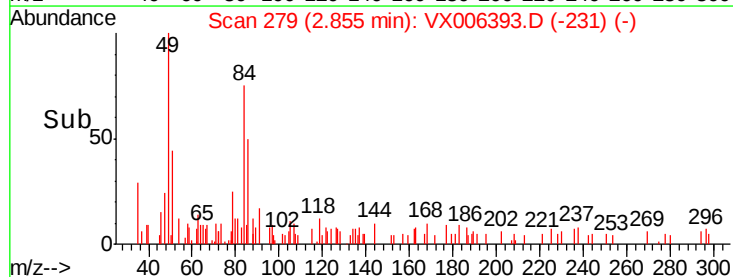
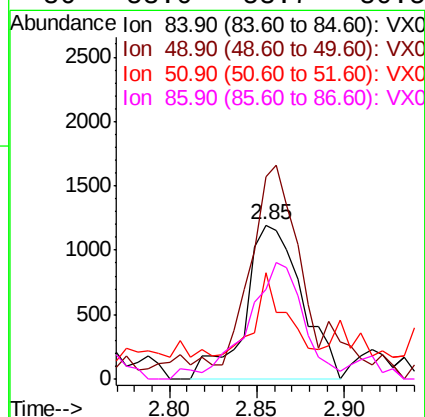
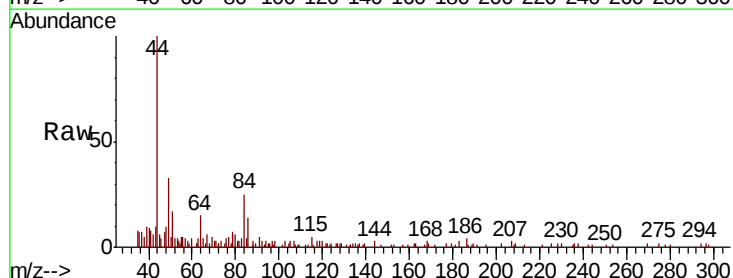
Instrument :
MSVOA_X
ClientSampleId :
RE-103D2-20181205

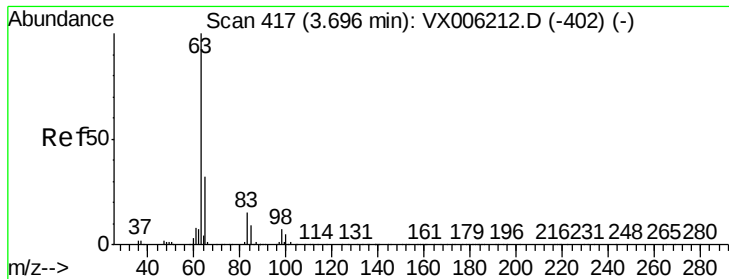
Tot Ion: 43 Resp: 6962
Ion Ratio Lower Upper
43 100
58 27.1 24.0 36.0



#20
Methylene Chloride
Concen: 0.368 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

Tgt Ion: 84 Resp: 2676
Ion Ratio Lower Upper
84 100
49 122.5 102.2 153.4
51 45.1 31.1 46.7
86 53.0 53.7 80.5#





#24

1,1-Dichloroethane

Concen: 0.459 ug/l

RT: 3.71 min Scan# 419

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

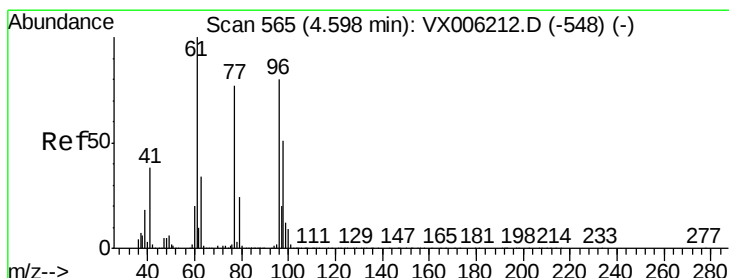
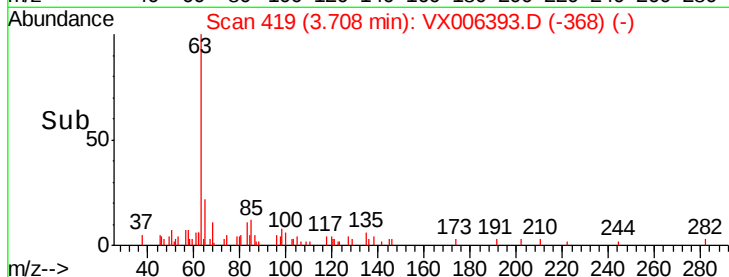
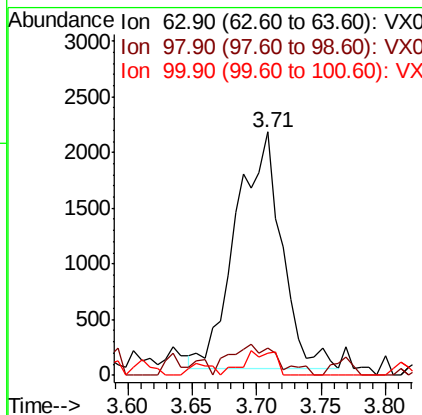
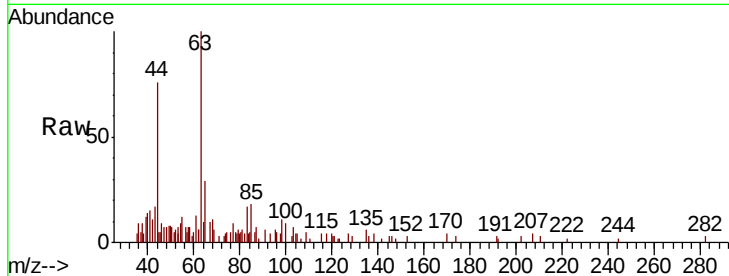
Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

Tot Ion:	63	Resp:	5232
Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.4
100	9.1	2.5	7.4#



#27

cis-1,2-Dichloroethene

Concen: 0.611 ug/l

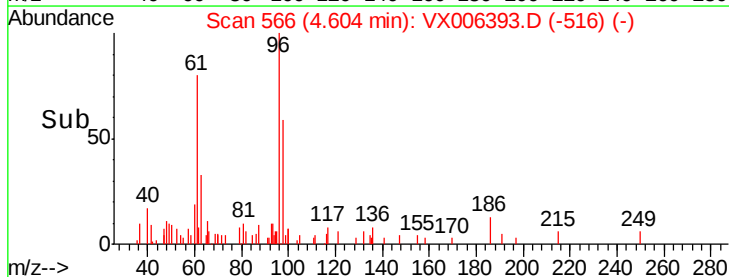
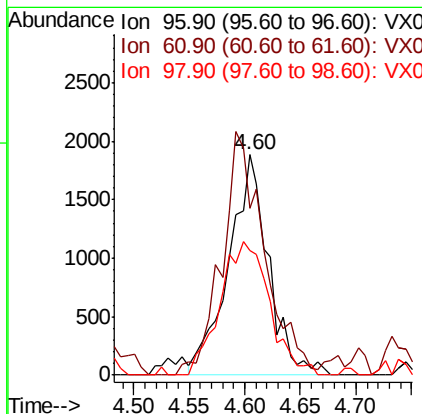
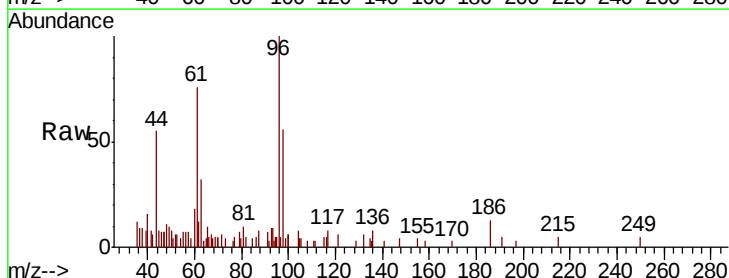
RT: 4.60 min Scan# 566

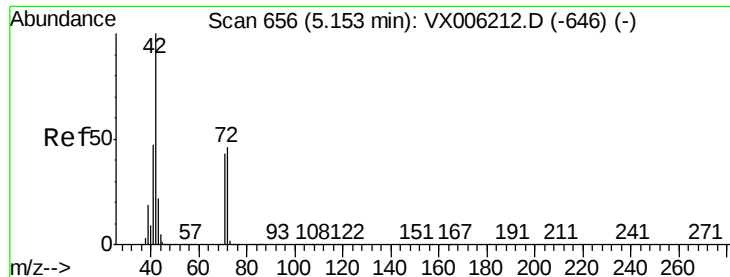
Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Tgt Ion:	96	Resp:	4693
Ion	Ratio	Lower	Upper
96	100		
61	117.4	0.0	265.0
98	74.8	0.0	130.2





#29

Tetrahydrofuran

Concen: 0.360 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

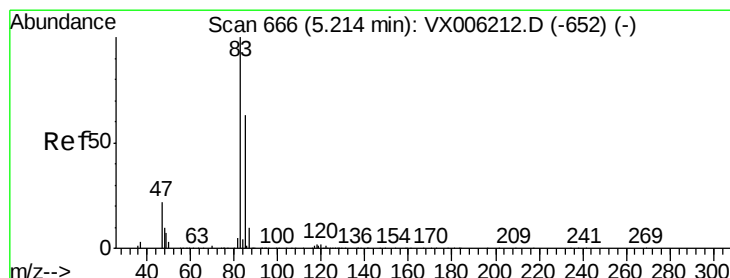
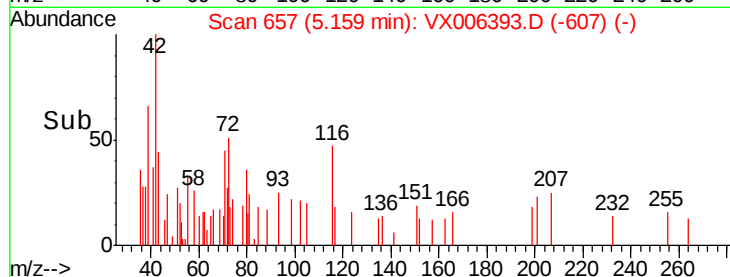
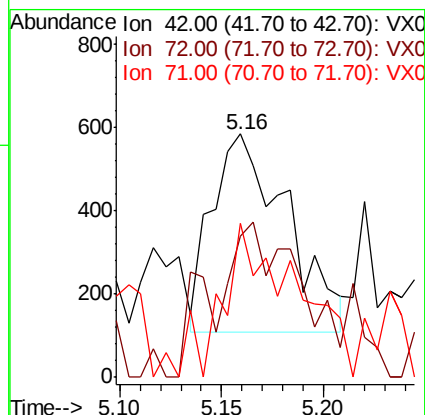
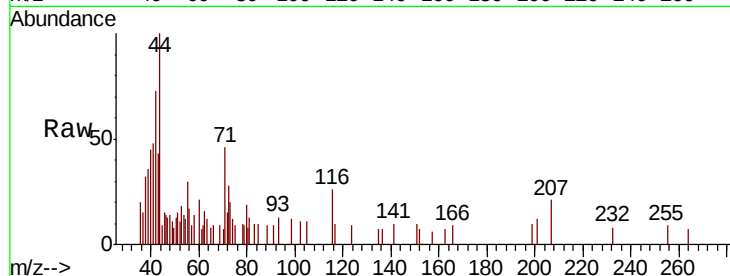
Tot Ion: 42 Resp: 1220

Ion Ratio Lower Upper

42 100

72 52.0 37.8 56.8

71 76.6 35.2 52.8#



#30

Chloroform

Concen: 0.607 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX006393.D

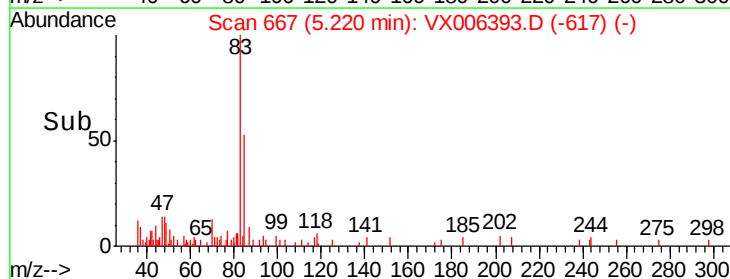
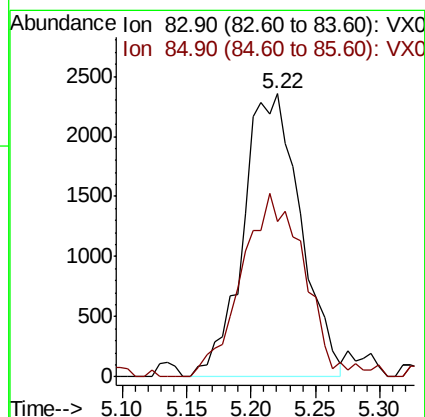
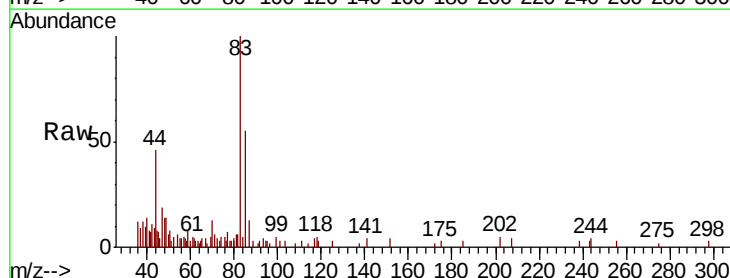
Acq: 11 Dec 2018 02:25

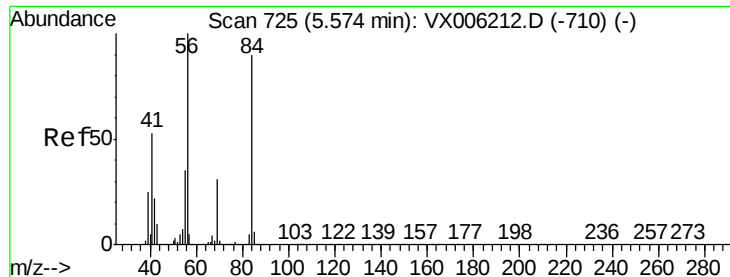
Tgt Ion: 83 Resp: 7268

Ion Ratio Lower Upper

83 100

85 54.7 50.3 75.5

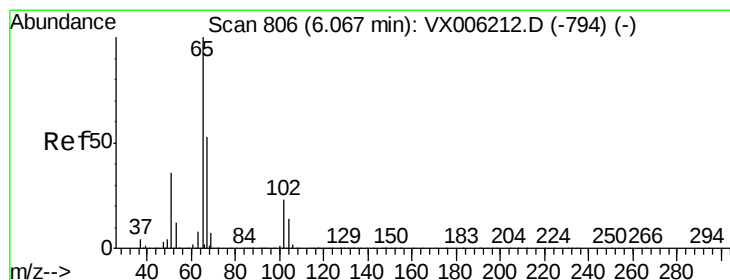
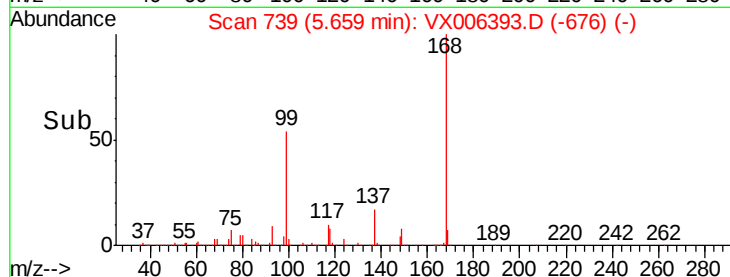
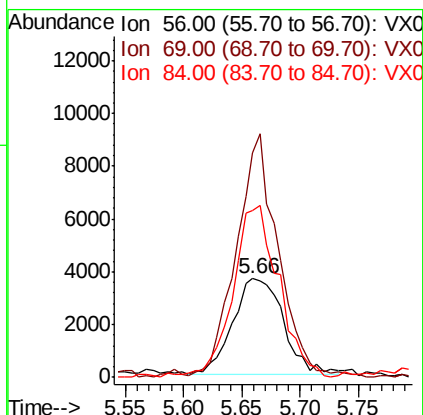
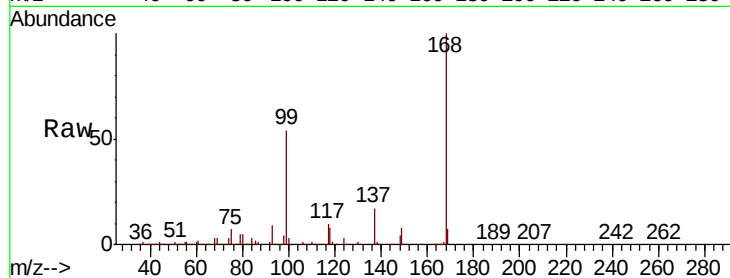




#31
Cyclohexane
Concen: 1.030 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

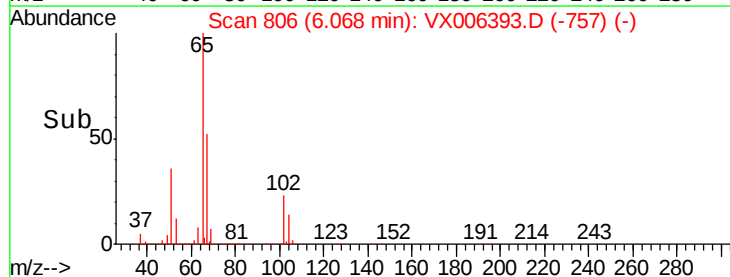
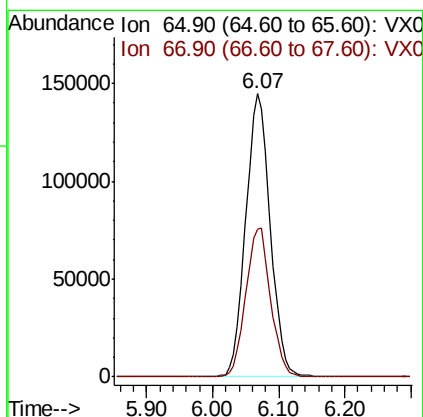
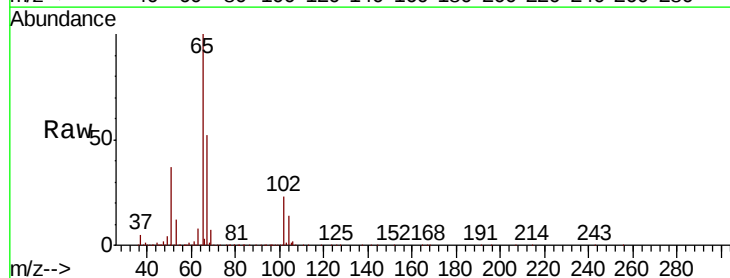
Instrument :
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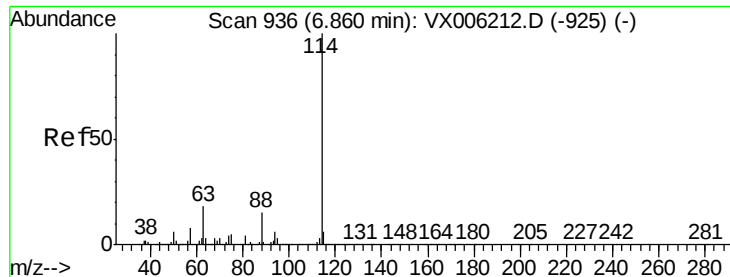
Tot Ion: 56 Resp: 10842
Ion Ratio Lower Upper
56 100
69 234.0 24.5 36.7#
84 174.2 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 51.323 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

Tgt Ion: 65 Resp: 374005
Ion Ratio Lower Upper
65 100
67 53.2 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

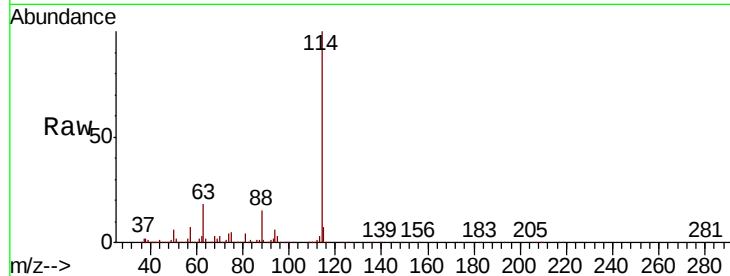
Tot Ion:114 Resp: 1128779

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.6

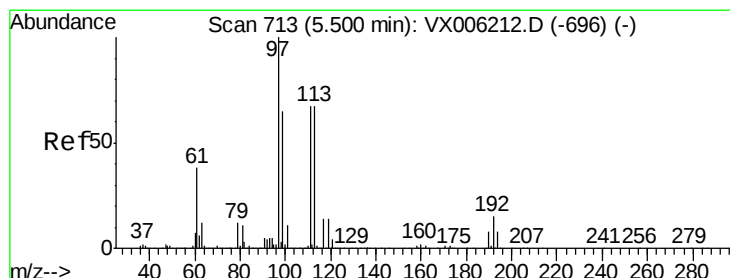
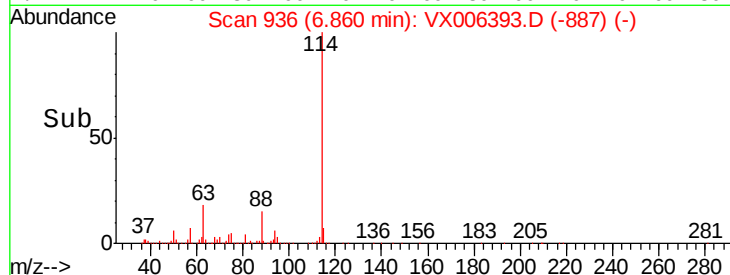
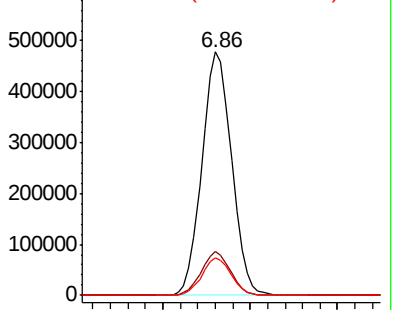
88 15.3 0.0 29.0



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



#35

Dibromofluoromethane

Concen: 47.509 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

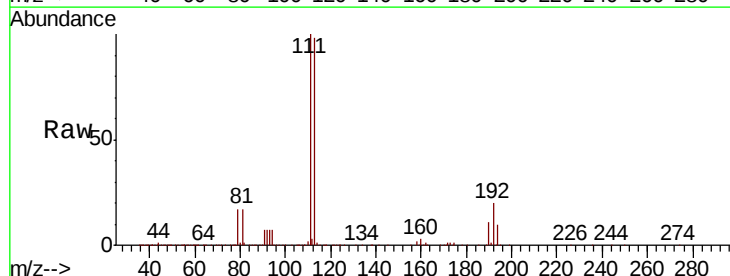
Tgt Ion:113 Resp: 347218

Ion Ratio Lower Upper

113 100

111 102.6 81.1 121.7

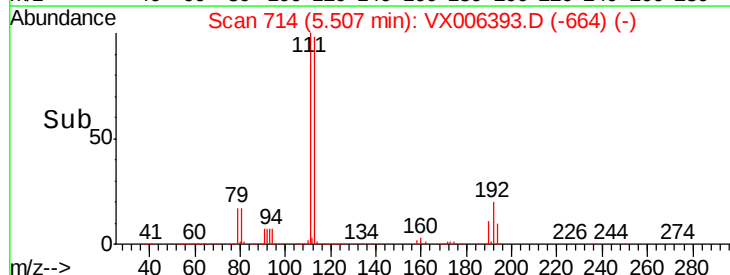
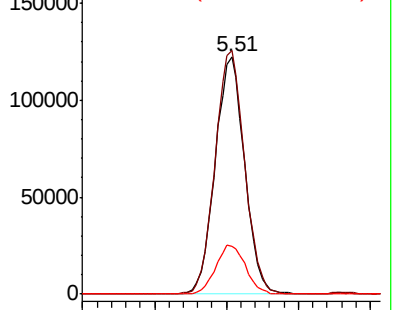
192 21.0 18.2 27.2

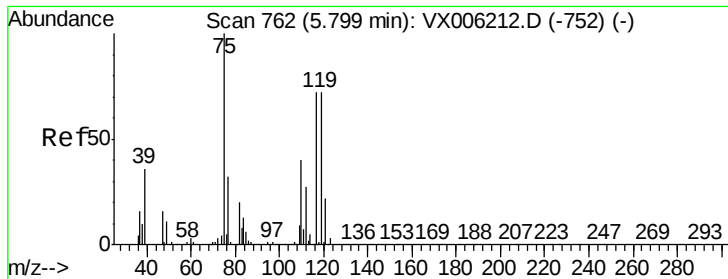


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.883 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

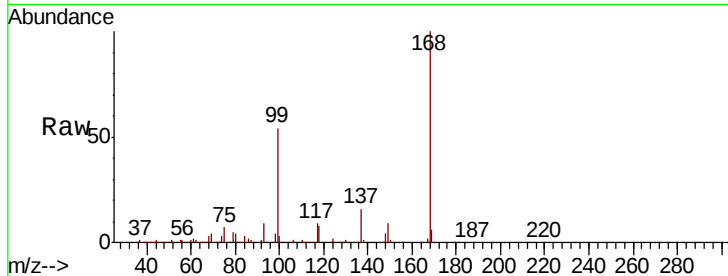
Tot Ion: 75 Resp: 46415

Ion Ratio Lower Upper

75 100

110 11.1 20.4 61.3#

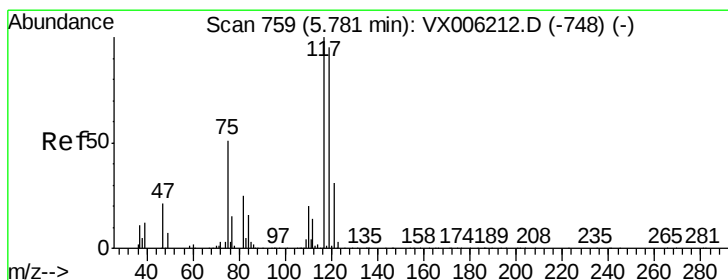
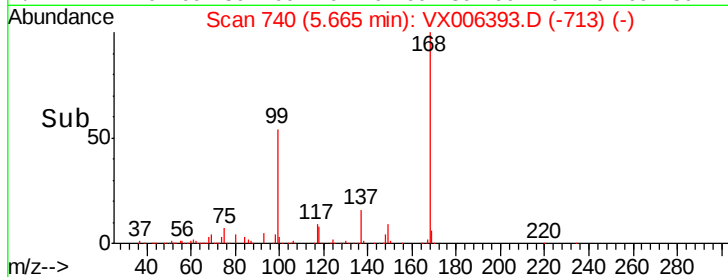
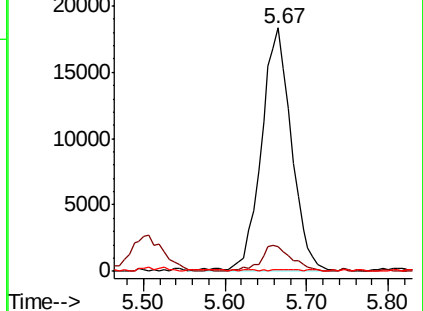
77 0.6 24.9 37.3#



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: 0.232 ug/l

RT: 5.79 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

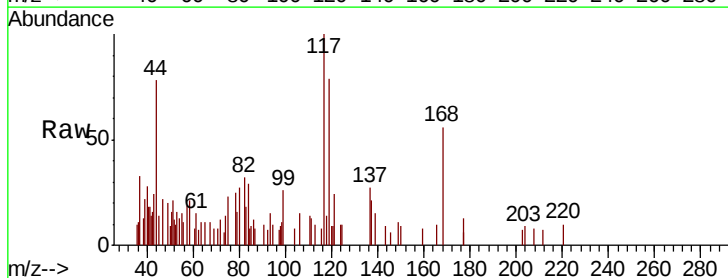
Tgt Ion: 117 Resp: 2596

Ion Ratio Lower Upper

117 100

119 69.2 75.8 113.8#

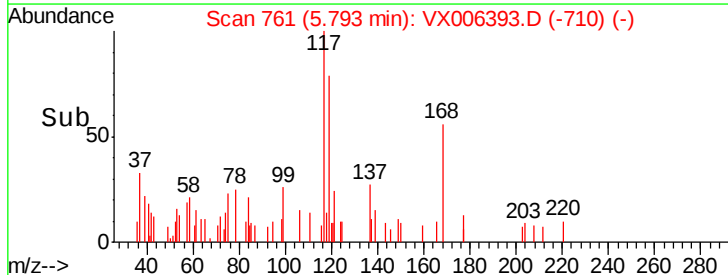
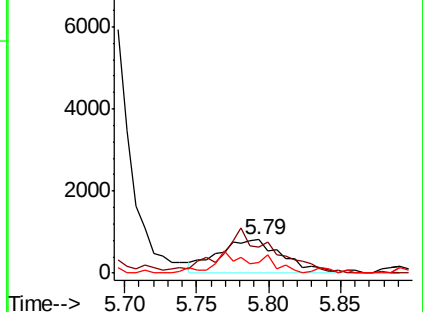
121 33.1 24.6 37.0

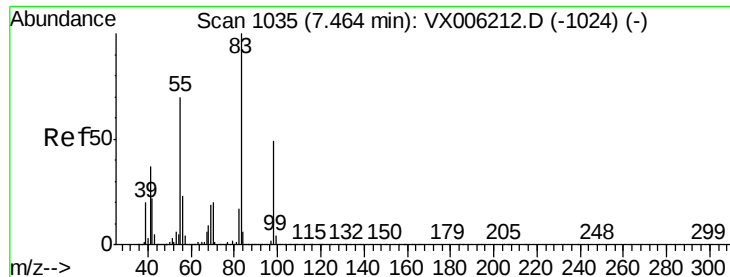


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 3.286 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

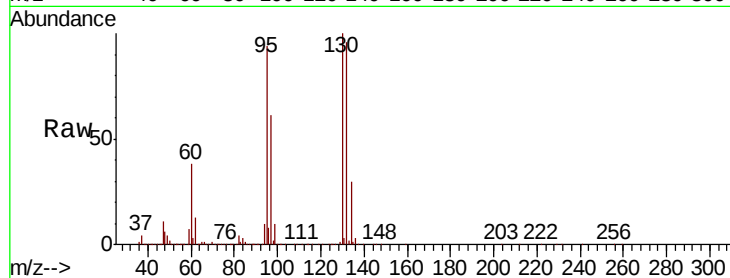
Tot Ion: 83 Resp: 40548

Ion Ratio Lower Upper

83 100

55 1.0 56.4 84.6#

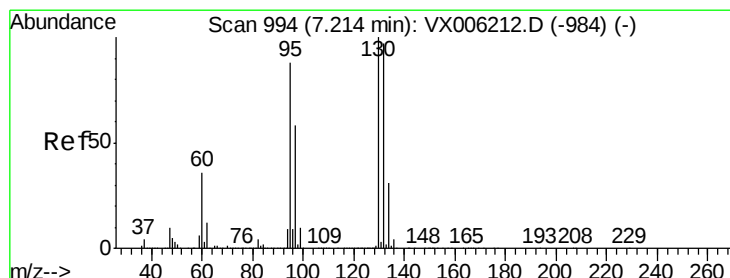
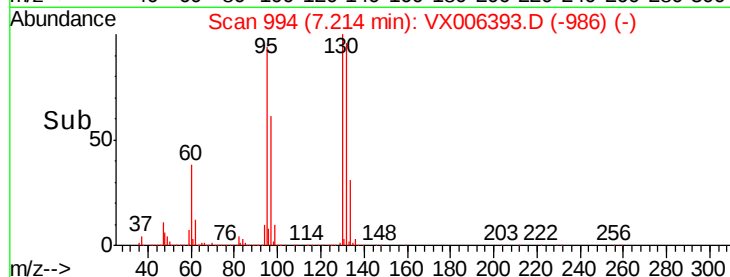
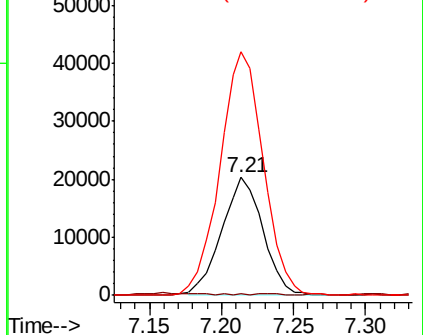
98 205.8 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#44

Trichloroethene

Concen: 426.928 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006393.D

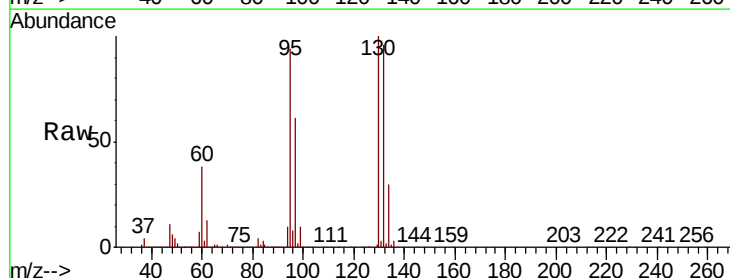
Acq: 11 Dec 2018 02:25

Tgt Ion:130 Resp: 3682132

Ion Ratio Lower Upper

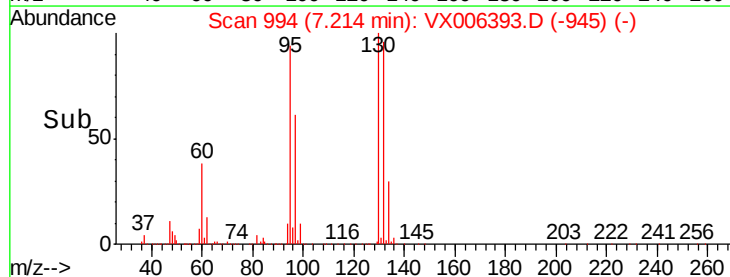
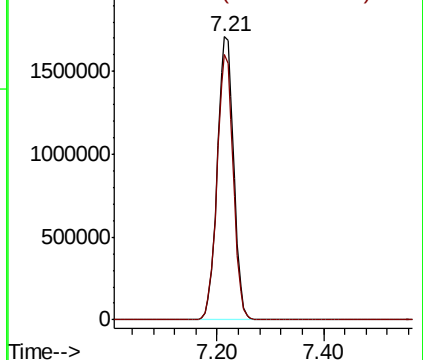
130 100

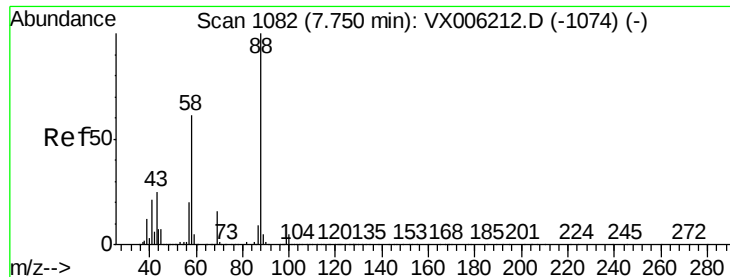
95 93.8 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 3.205 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

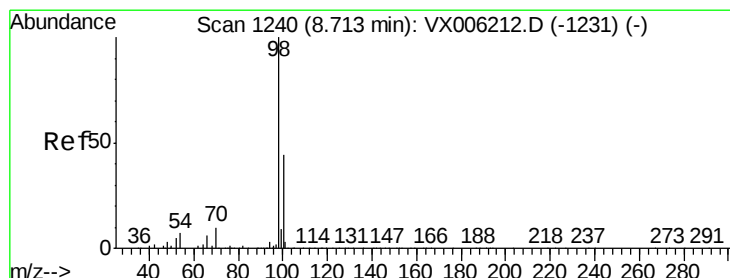
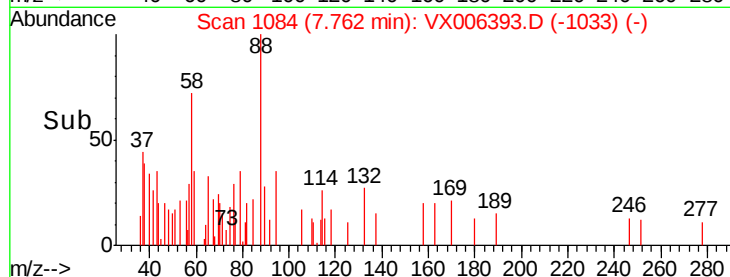
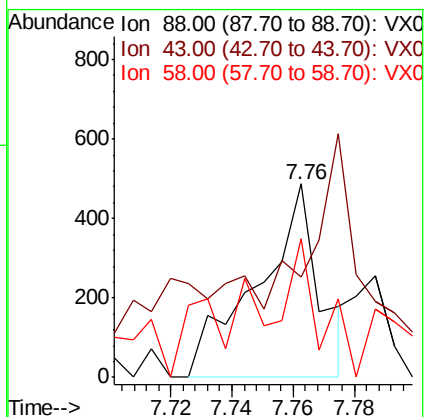
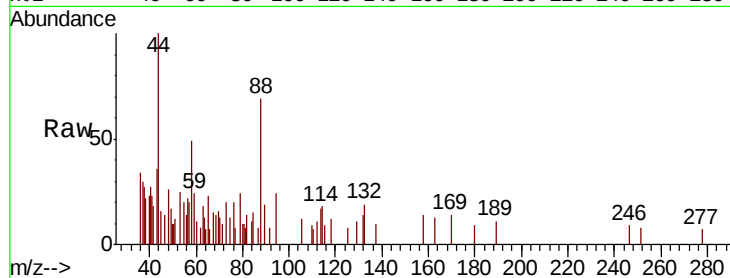
Tot Ion: 88 Resp: 682

Ion Ratio Lower Upper

88 100

43 71.0 23.2 34.8#

58 61.0 51.4 77.0



#50

Toluene-d8

Concen: 49.486 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006393.D

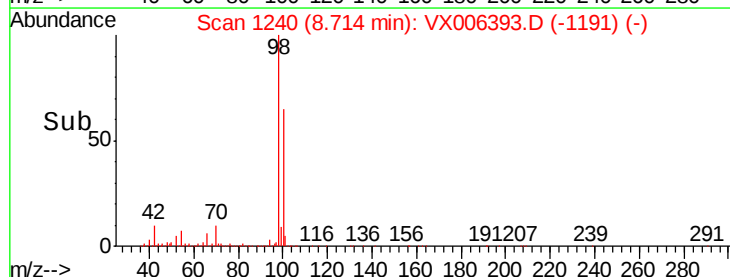
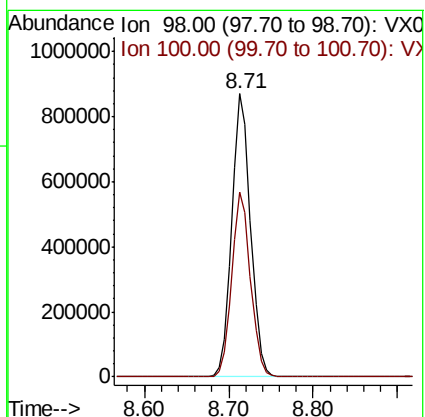
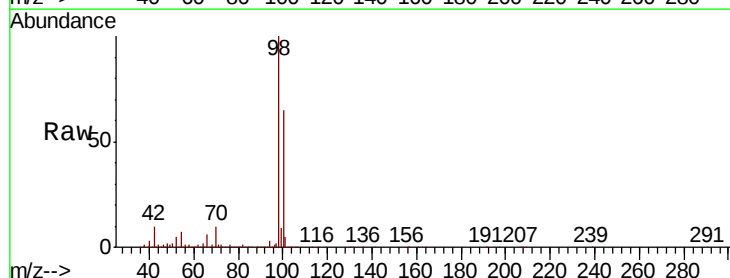
Acq: 11 Dec 2018 02:25

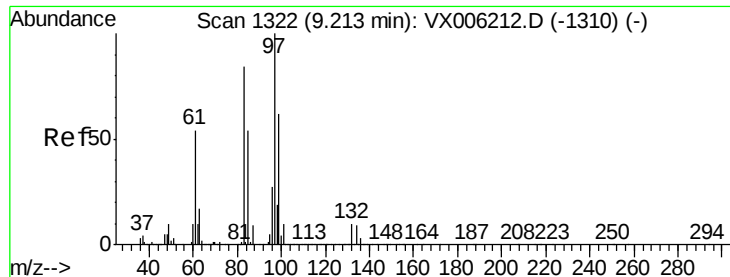
Tgt Ion: 98 Resp: 1315530

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2

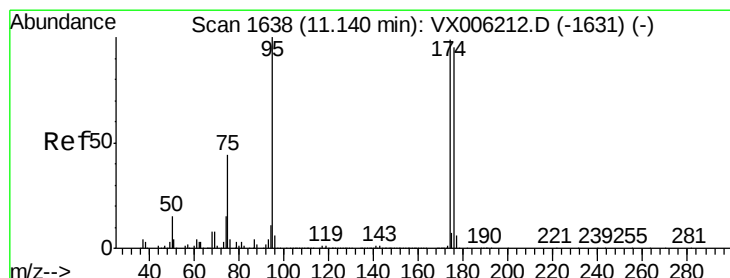
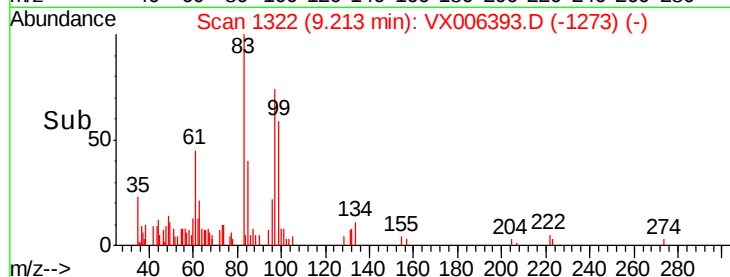
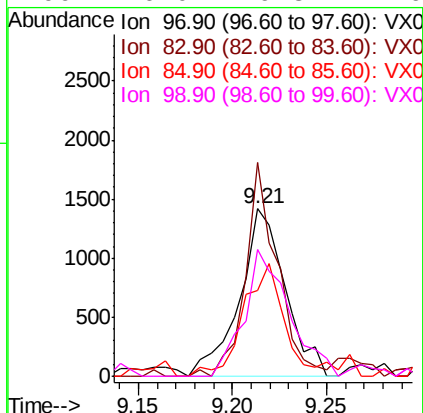
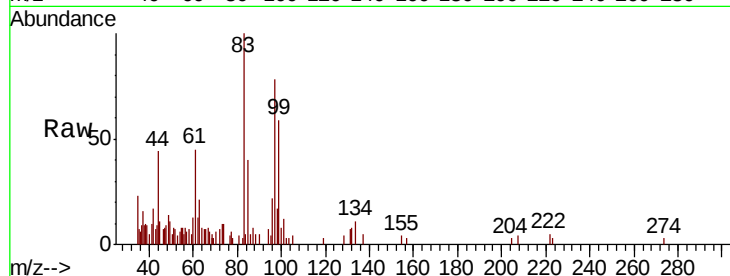




#55
 1,1,2-Trichloroethane
 Concen: 0.314 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX006393.D
 Acq: 11 Dec 2018 02:25

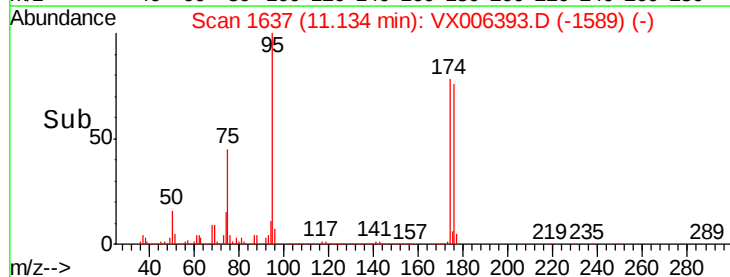
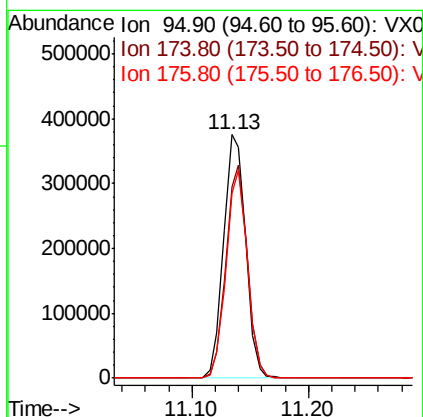
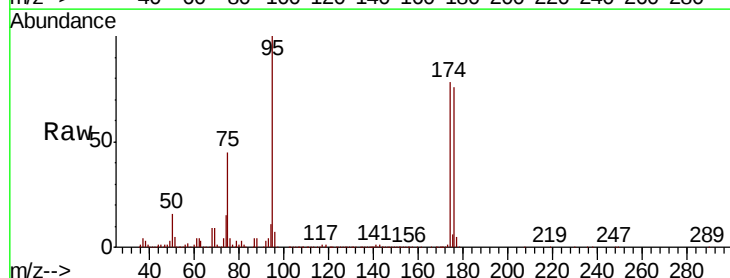
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-103D2-20181205

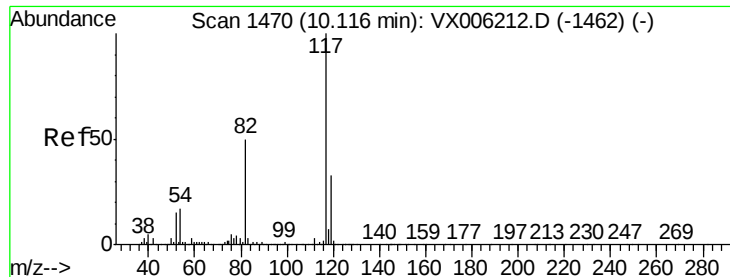
Tot Ion: 97 Resp: 2391
 Ion Ratio Lower Upper
 97 100
 83 127.8 67.1 100.7#
 85 51.6 43.2 64.8
 99 76.0 49.8 74.6#



#62
 4-Bromofluorobenzene
 Concen: 48.838 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.01 min
 Lab File: VX006393.D
 Acq: 11 Dec 2018 02:25

Tgt Ion: 95 Resp: 489235
 Ion Ratio Lower Upper
 95 100
 174 85.6 0.0 187.0
 176 82.8 0.0 181.8

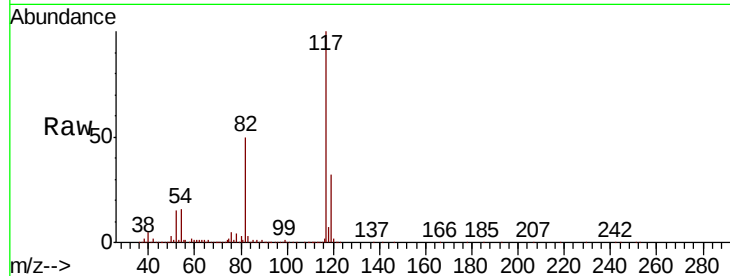




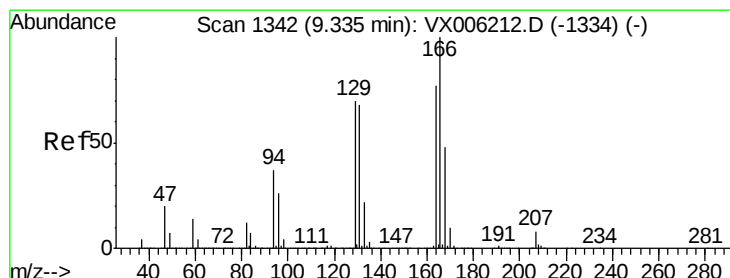
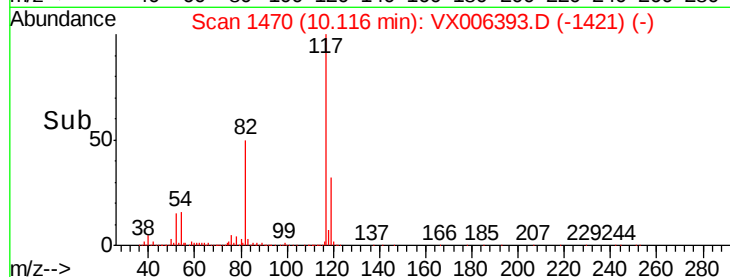
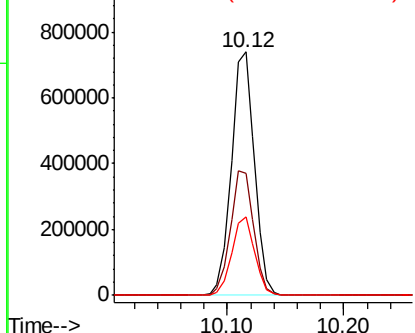
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

Instrument :
MSVOA_X
ClientSampleId :
RE-103D2-20181205

Tot Ion:117 Resp: 1018279
Ion Ratio Lower Upper
117 100
82 50.0 39.6 59.4
119 32.3 26.3 39.5

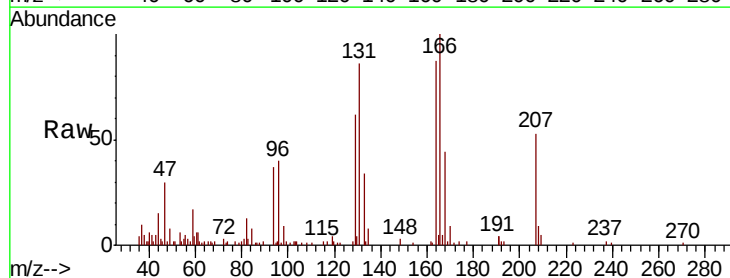


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

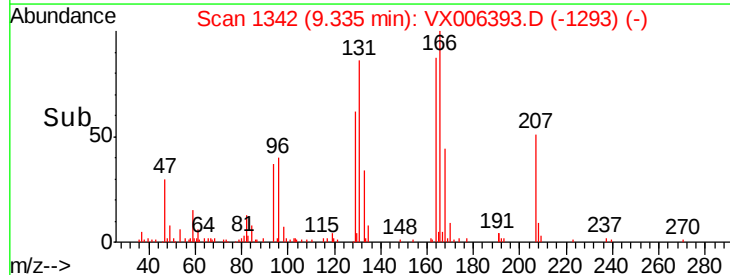
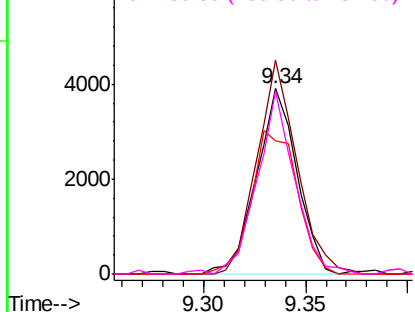


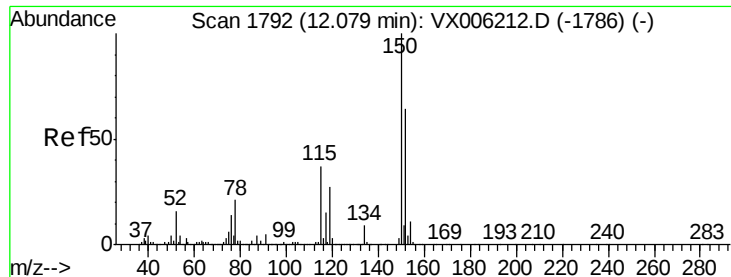
#64
Tetrachloroethene
Concen: 0.707 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006393.D
Acq: 11 Dec 2018 02:25

Tgt Ion:164 Resp: 5425
Ion Ratio Lower Upper
164 100
166 115.1 104.2 156.2
129 71.6 72.6 108.8#
131 97.0 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: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

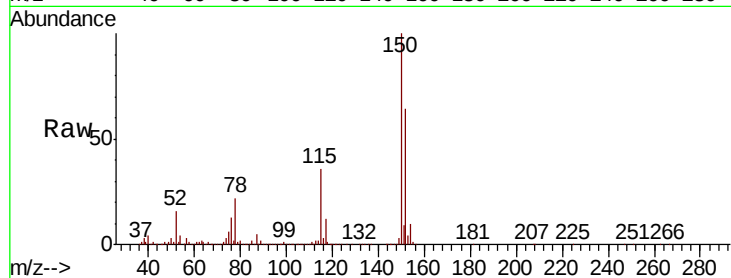
Tot Ion:152 Resp: 486990

Ion Ratio Lower Upper

152 100

115 57.3 39.0 116.9

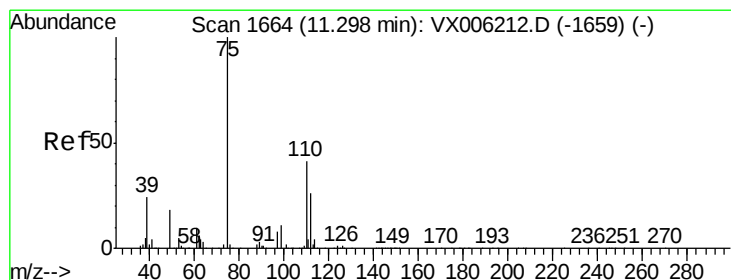
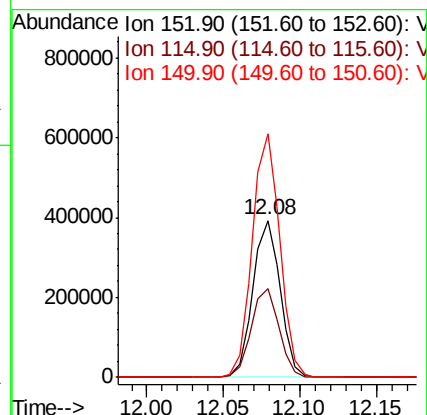
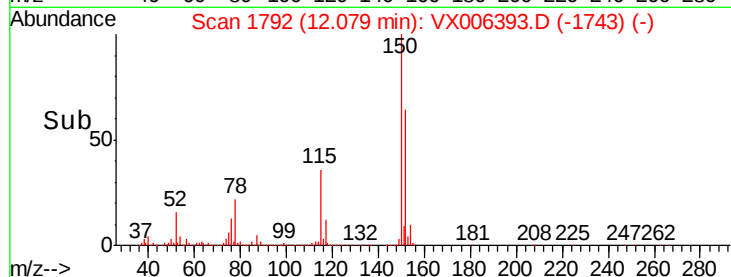
150 156.5 0.0 345.8



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: 23.545 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006393.D

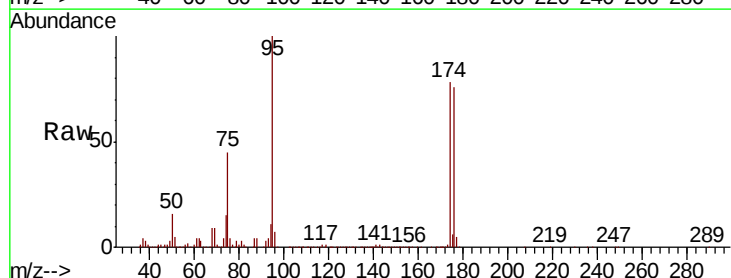
Acq: 11 Dec 2018 02:25

Tgt Ion: 75 Resp: 221313

Ion Ratio Lower Upper

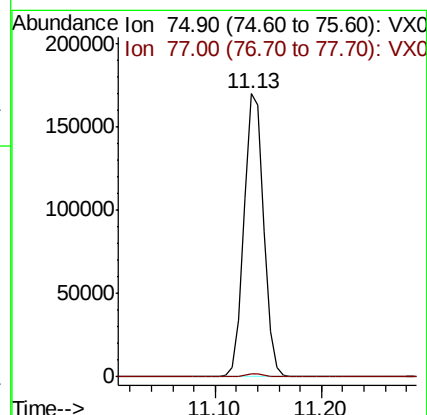
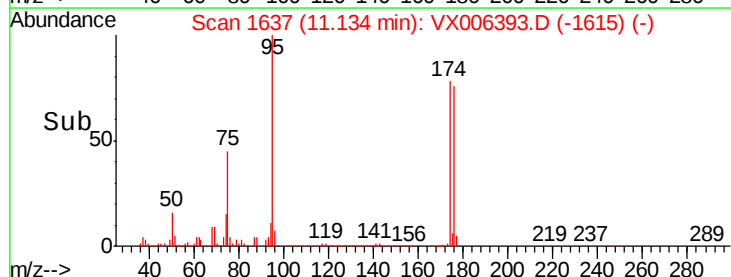
75 100

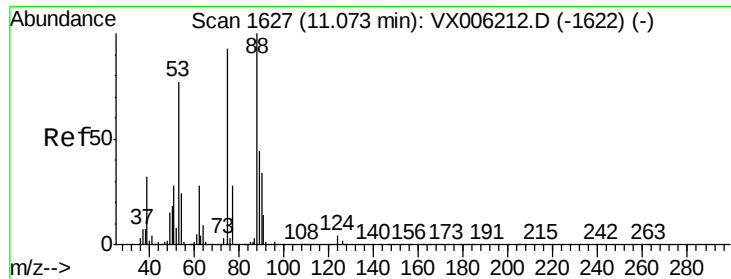
77 1.2 19.9 59.7#



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: 55.253 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006393.D

Acq: 11 Dec 2018 02:25

Instrument :

MSVOA_X

ClientSampleId :

RE-103D2-20181205

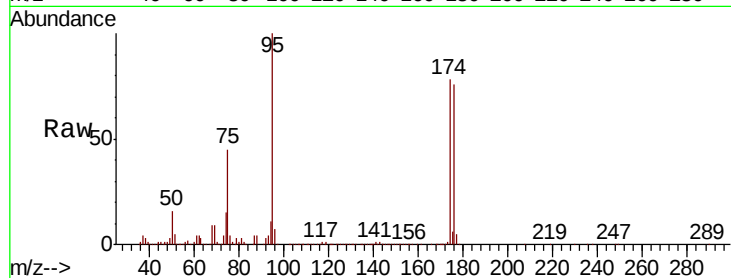
Tot Ion: 75 Resp: 221313

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 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

