

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003562.D
 Acq On : 21 Jul 2018 18:26
 Operator : JC/SP
 Sample : J4014-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D1-071318RE

Quant Time: Jul 23 01:40:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	261309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	422925	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	379281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202912	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	171232	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	
35) Dibromofluoromethane	5.51	113	151279	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	8.72	98	576633	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
62) 4-Bromofluorobenzene	11.14	95	192372	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	

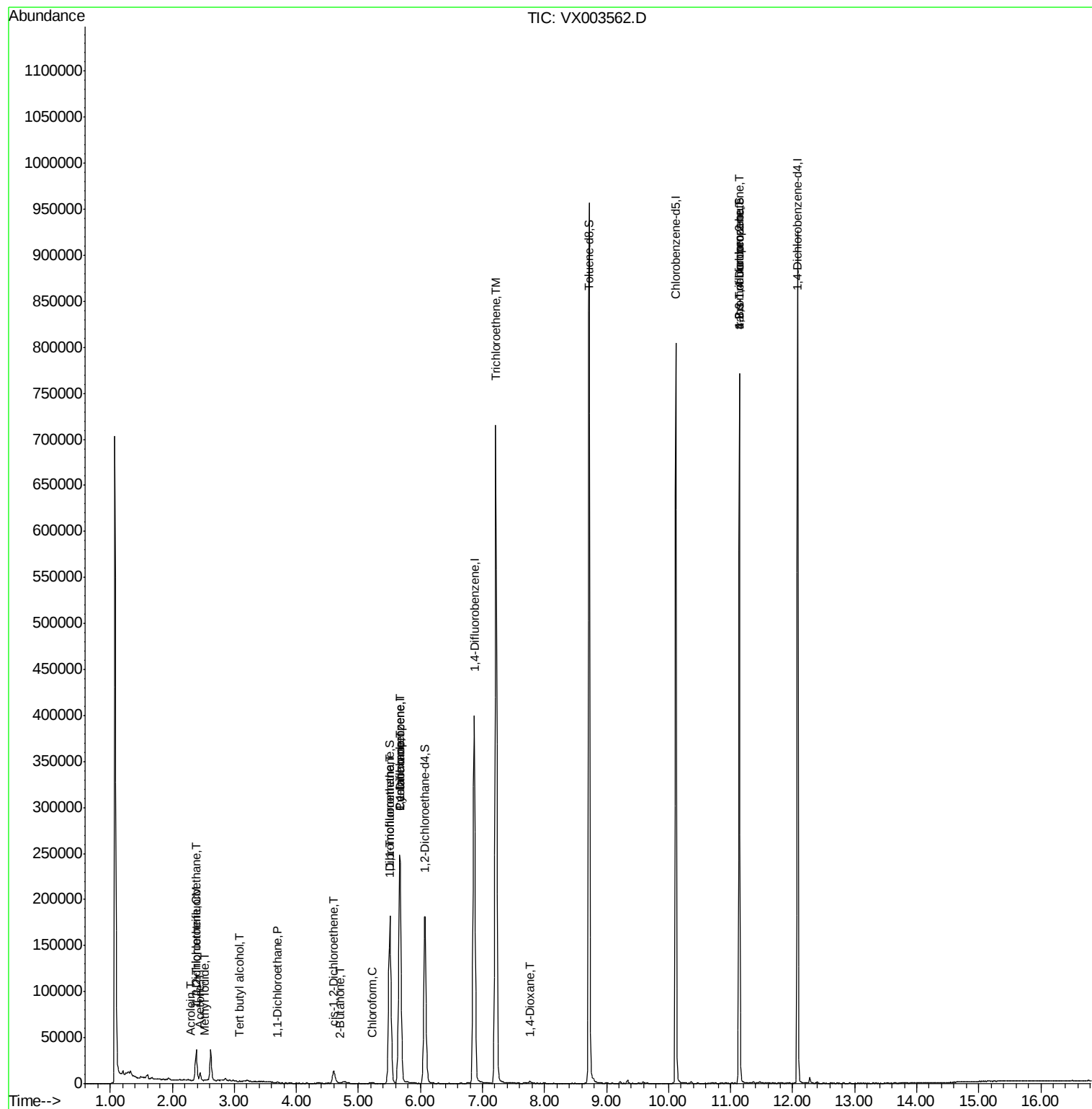
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1263	Below Cal		88
3) Chloromethane	1.32	50	1903	Below Cal		97
5) Bromomethane	1.61	94	139	Below Cal	#	3
9) 1,1,2-Trichlorotrifluoroet	2.39	101	11600	4.00	ug/l	98
10) Methyl Iodide	2.52	142	732	0.21	ug/l	# 91
11) Tert butyl alcohol	3.07	59	172	0.28	ug/l	# 76
12) 1,1-Dichloroethene	2.37	96	2291	0.86	ug/l	82
13) Acrolein	2.30	56	60	0.22	ug/l	# 1
16) Acetone	2.45	43	7702	6.59	ug/l	# 76
20) Methylene Chloride	2.86	84	909	Below Cal		97
24) 1,1-Dichloroethane	3.69	63	1057	0.20	ug/l	# 87
25) 2-Butanone	4.71	43	866	0.44	ug/l	# 52
27) cis-1,2-Dichloroethene	4.60	96	4955	1.50	ug/l	# 1
30) Chloroform	5.21	83	1378	0.27	ug/l	89
31) Cyclohexane	5.67	56	4593	0.99	ug/l	# 1
32) 1,1,1-Trichloroethane	5.49	97	1247	0.29	ug/l	# 48
36) 1,1-Dichloropropene	5.67	75	16571	3.63	ug/l	# 50
44) Trichloroethene	7.21	130	295575	71.89	ug/l	97
49) 1,4-Dioxane	7.76	88	1408	17.93	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	92616	25.41	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92616	71.11	ug/l	# 7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

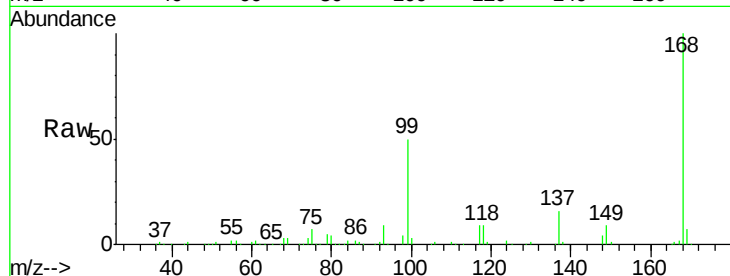
RE105D1-071318RE

Tot Ion:168 Resp: 261309

Ion Ratio Lower Upper

168 100

99 50.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

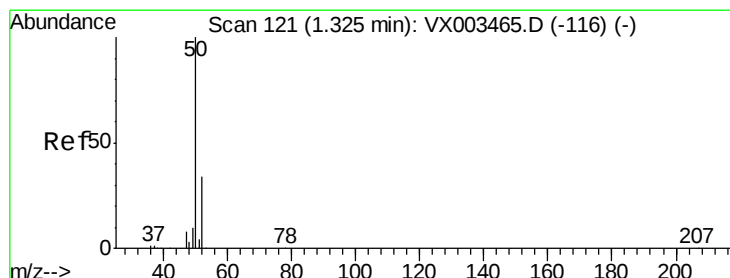
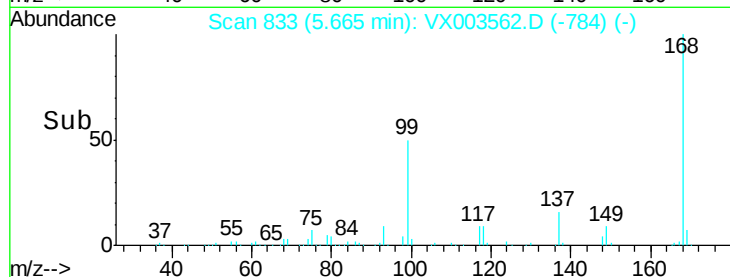
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003562.D

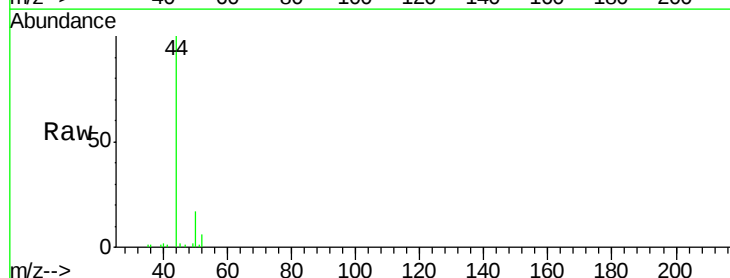
Acq: 21 Jul 2018 18:26

Tgt Ion: 50 Resp: 1903

Ion Ratio Lower Upper

50 100

52 34.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

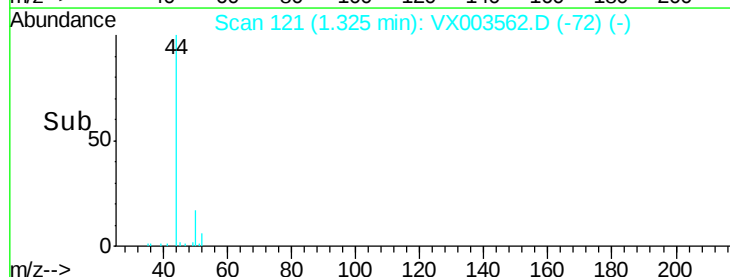
1500

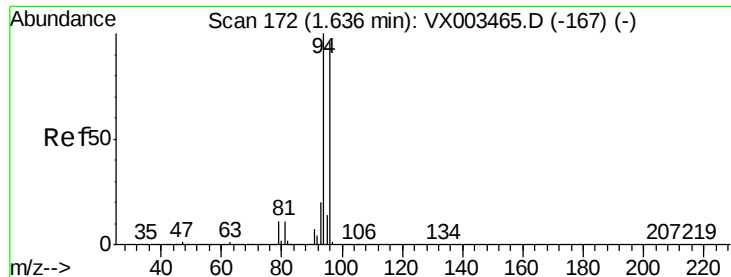
1000

500

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

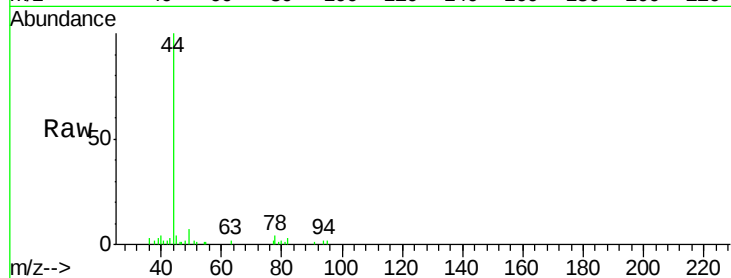
RE105D1-071318RE

Tot Ion: 94 Resp: 139

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#

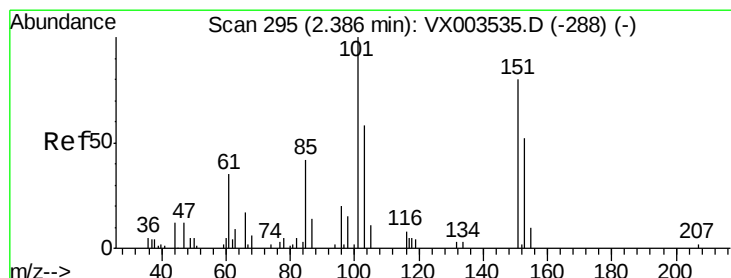
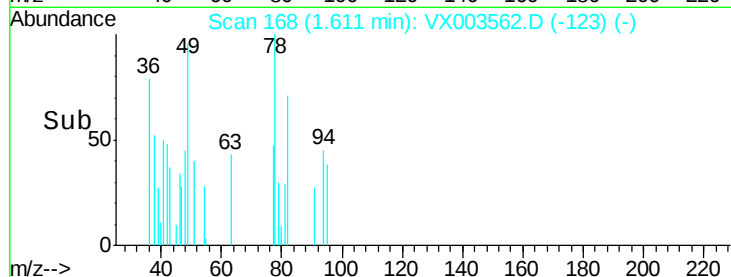


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.61

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.00 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

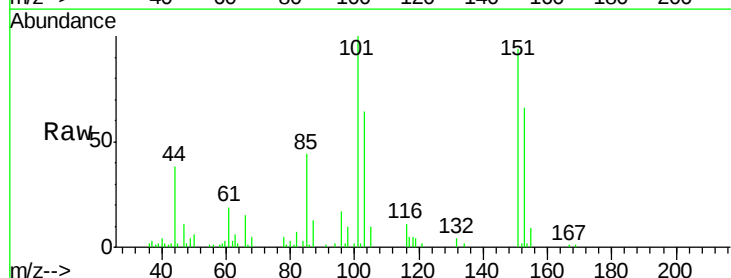
Tgt Ion:101 Resp: 11600

Ion Ratio Lower Upper

101 100

85 42.1 36.0 54.0

151 88.3 70.9 106.3



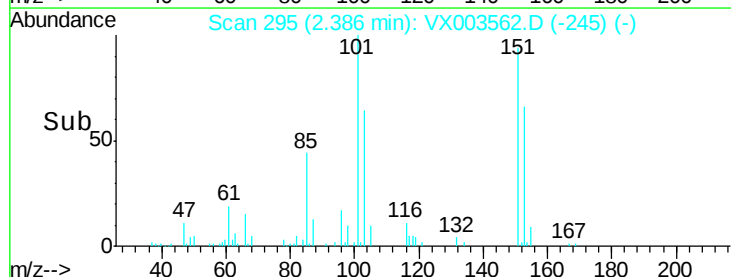
Abundance Ion 100.90 (100.60 to 101.60): V

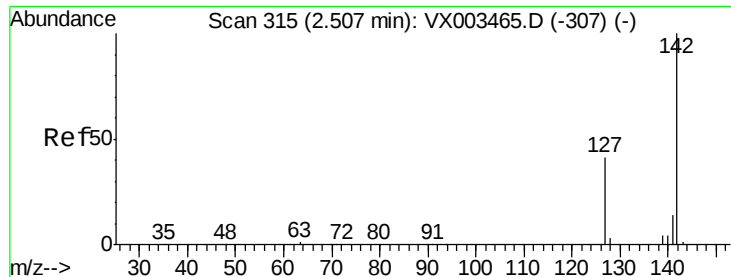
Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.39

Time-->

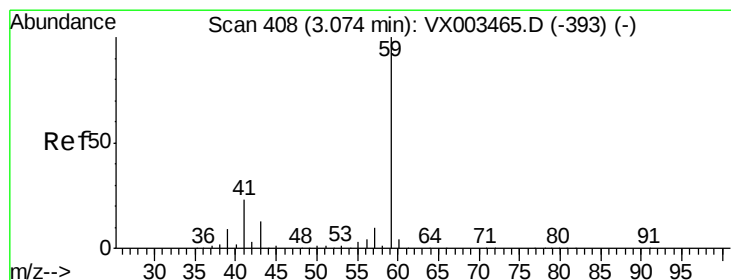
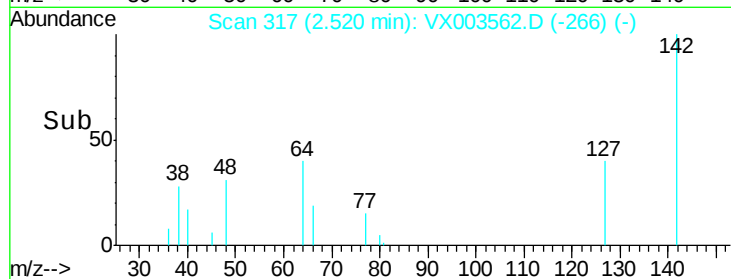
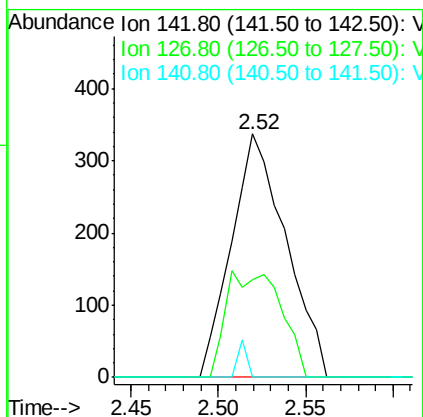
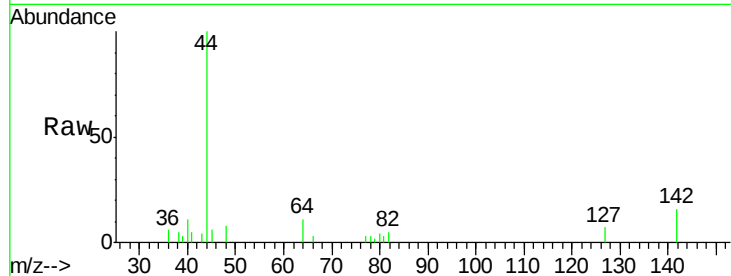




#10
Methvl Iodide
Concen: 0.21 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003562.D
Acq: 21 Jul 2018 18:26

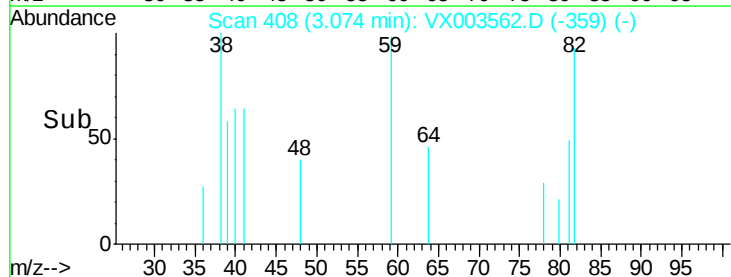
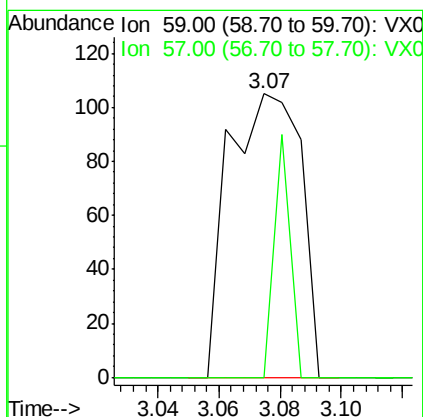
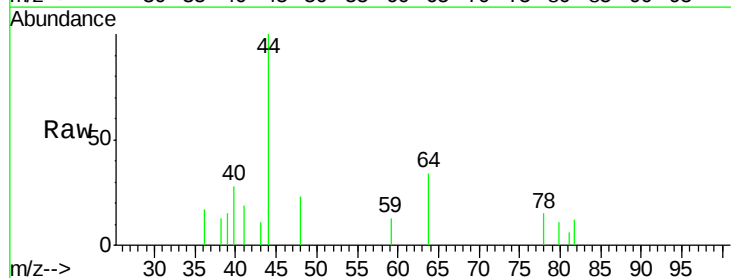
Instrument :
MSVOA_X
ClientSampleId :
RE105D1-071318RE

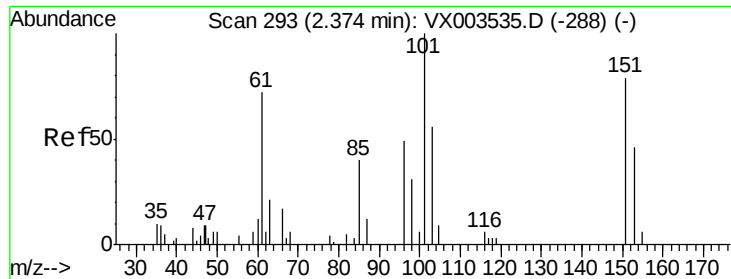
Tot Ion:142 Resp: 732
Ion Ratio Lower Upper
142 100
127 43.7 36.6 55.0
141 2.6 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.28 ug/l
RT: 3.07 min Scan# 408
Delta R.T. 0.00 min
Lab File: VX003562.D
Acq: 21 Jul 2018 18:26

Tgt Ion: 59 Resp: 172
Ion Ratio Lower Upper
59 100
57 19.2 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.86 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318RE

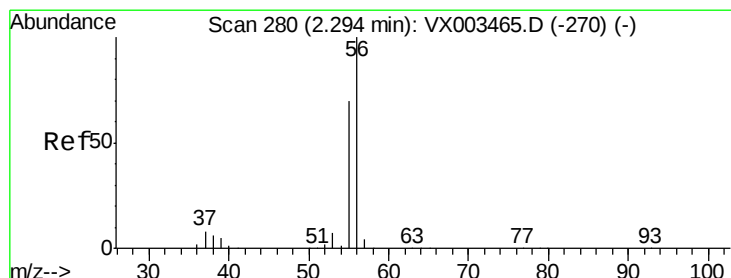
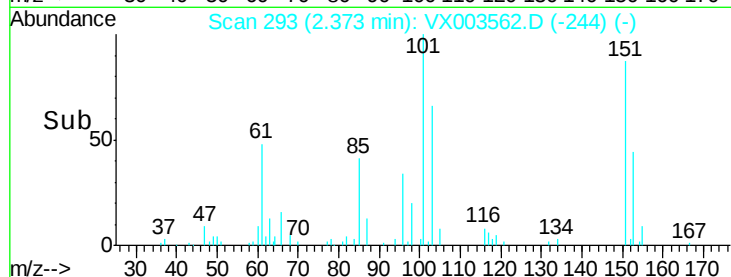
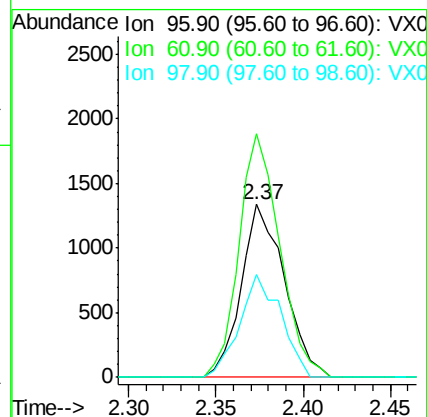
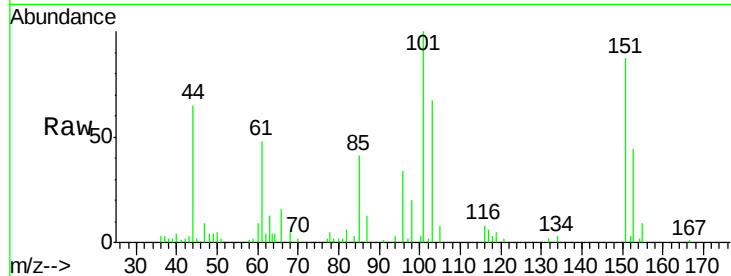
Tot Ion: 96 Resp: 2291

Ion Ratio Lower Upper

96 100

61 140.9 137.9 206.9

98 59.3 51.6 77.4



#13

Acrolein

Concen: 0.22 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003562.D

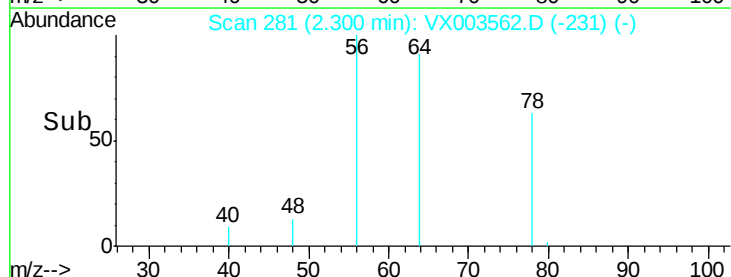
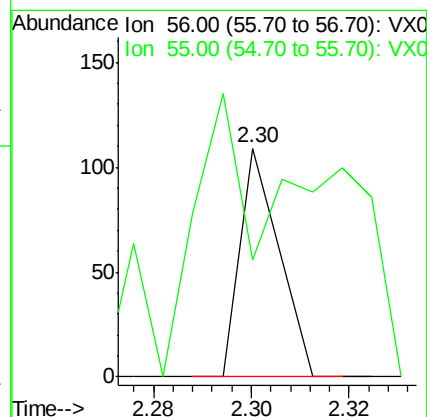
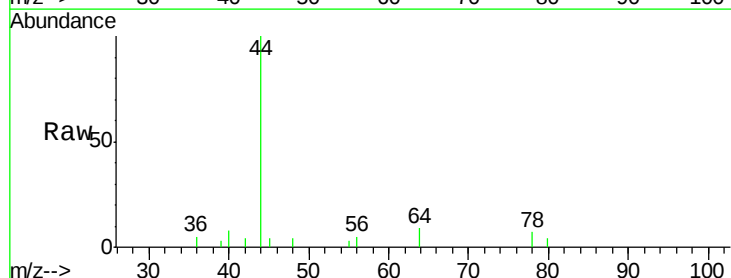
Acq: 21 Jul 2018 18:26

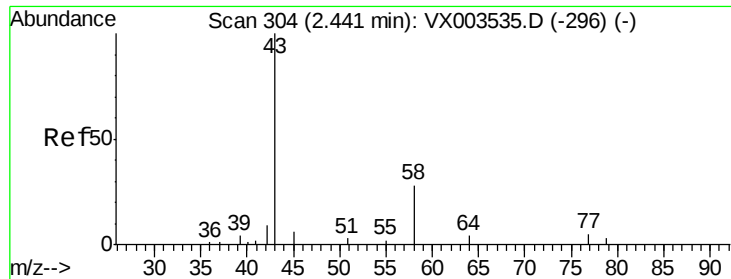
Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 203.3 57.0 85.4#





#16

Acetone

Concen: 6.59 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

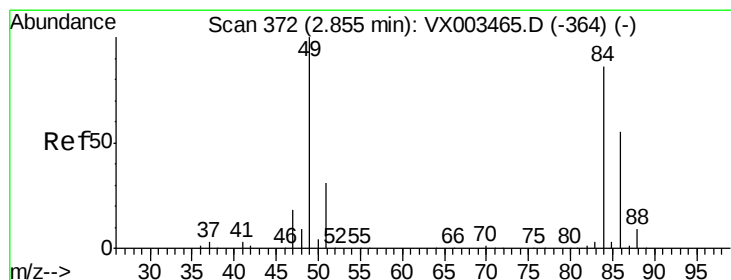
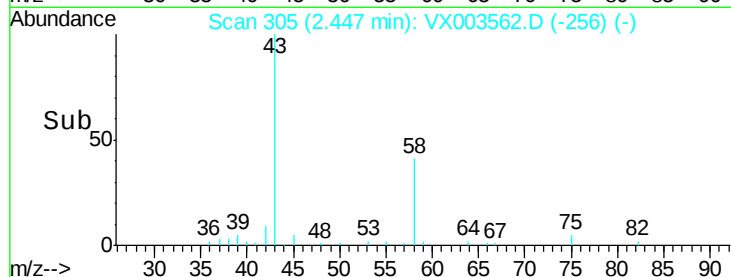
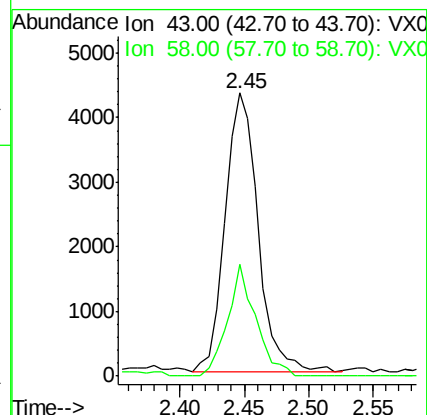
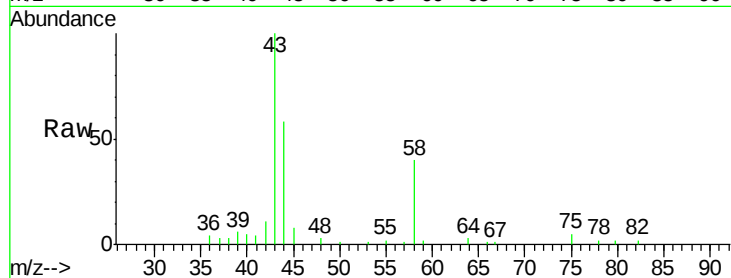
RE105D1-071318RE

Tot Ion: 43 Resp: 7702

Ion Ratio Lower Upper

43 100

58 40.4 22.1 33.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Tgt Ion: 84 Resp: 909

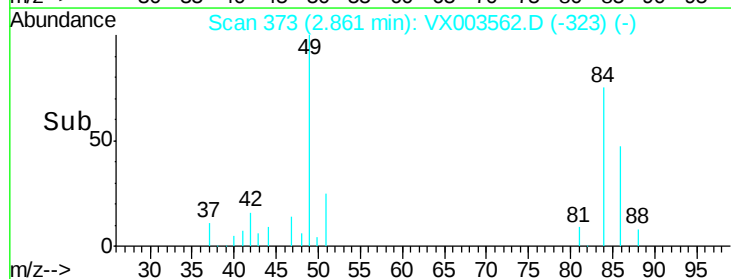
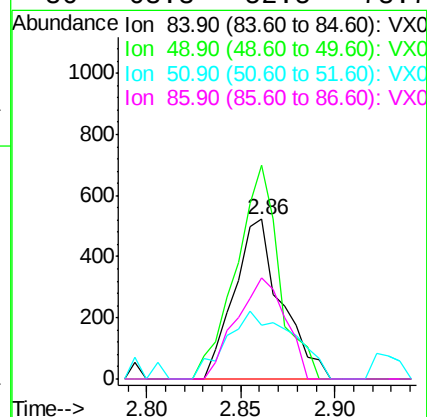
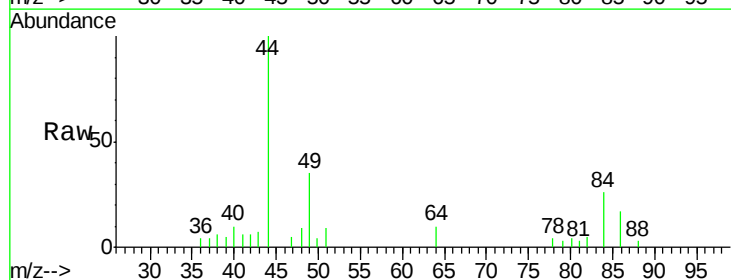
Ion Ratio Lower Upper

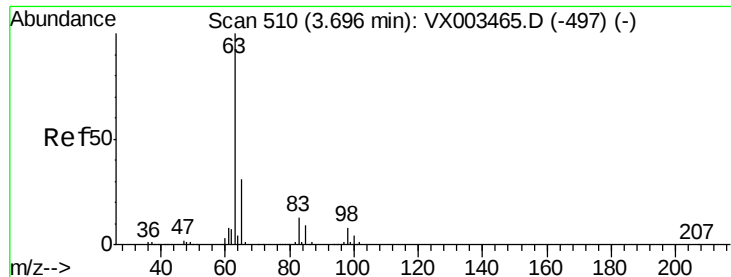
84 100

49 133.7 107.8 161.6

51 34.0 32.8 49.2

86 63.3 52.5 78.7





#24

1,1-Dichloroethane

Concen: 0.20 ug/l

RT: 3.69 min Scan# 509

Delta R.T. -0.01 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318RE

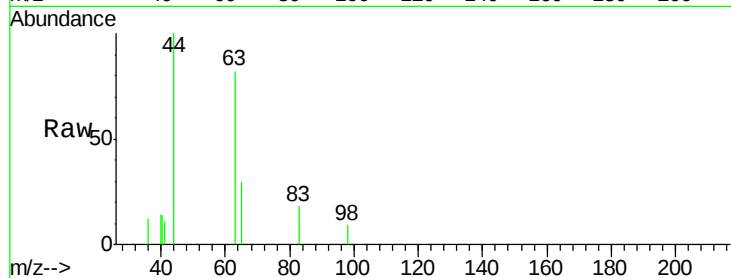
Tot Ion: 63 Resp: 1057

Ion Ratio Lower Upper

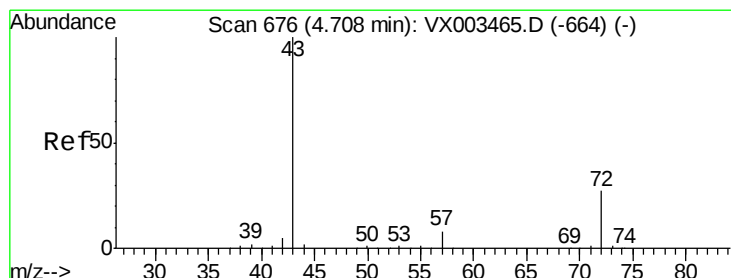
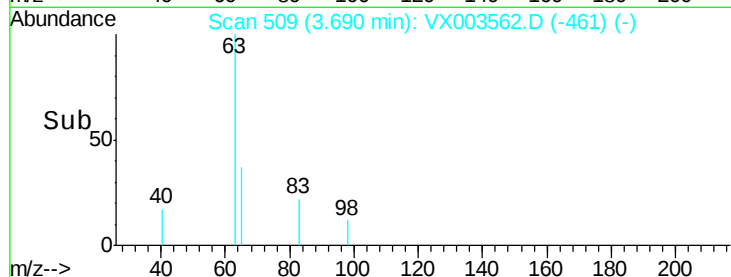
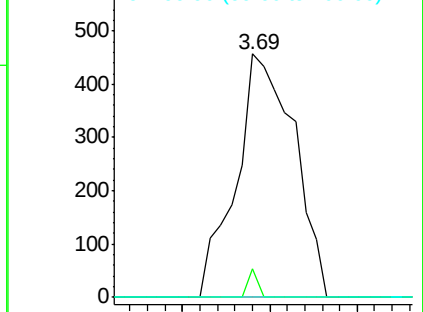
63 100

98 11.6 3.4 10.2#

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.44 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003562.D

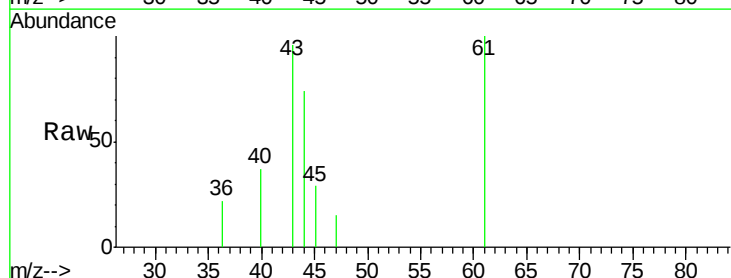
Acq: 21 Jul 2018 18:26

Tgt Ion: 43 Resp: 866

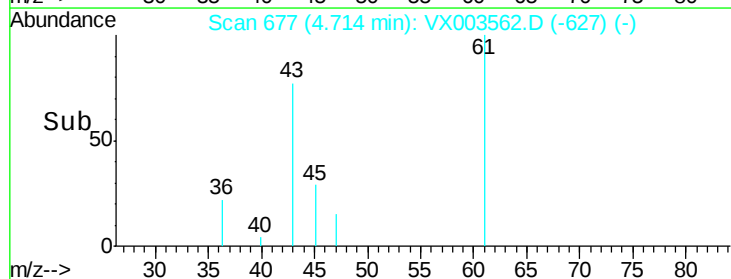
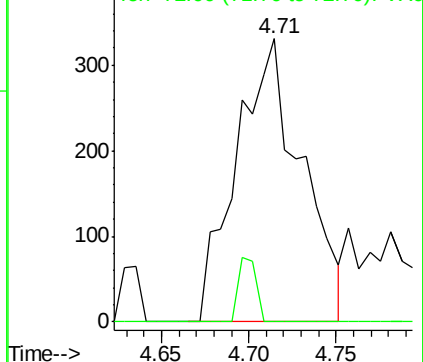
Ion Ratio Lower Upper

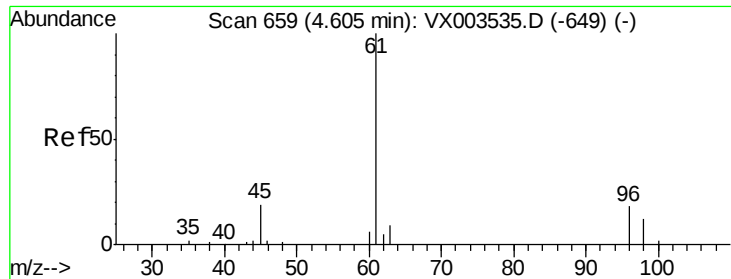
43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 1.50 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

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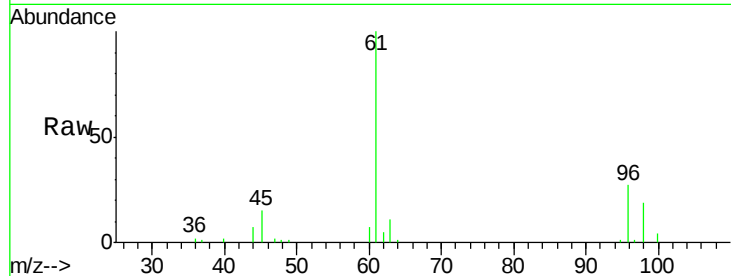
Tot Ion: 96 Resp: 4955

Ion Ratio Lower Upper

96 100

61 502.4 0.0 330.2#

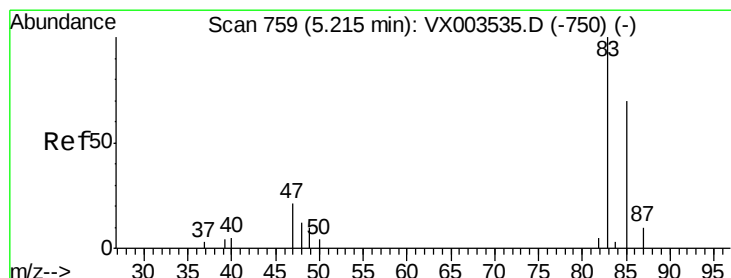
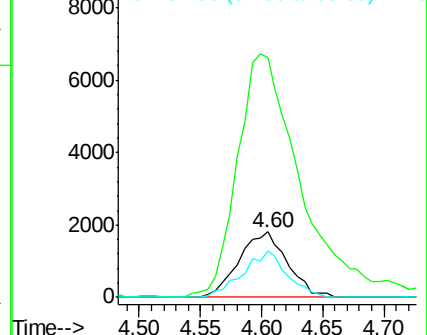
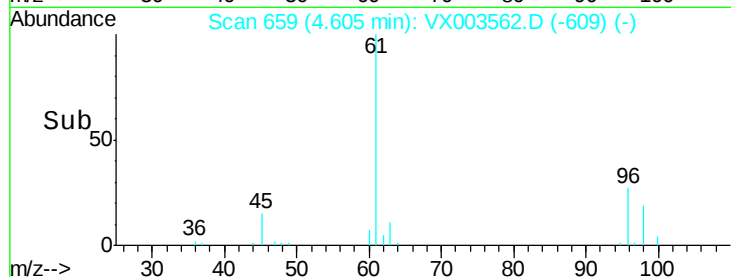
98 64.6 0.0 130.2



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



#30

Chloroform

Concen: 0.27 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX003562.D

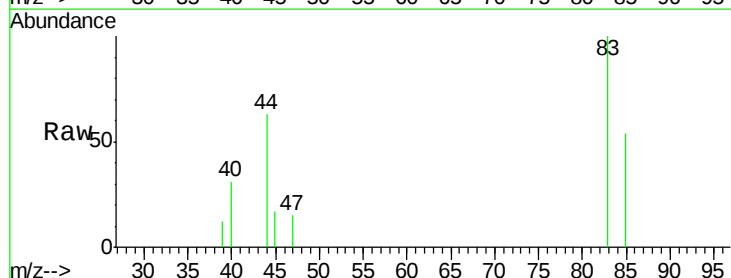
Acq: 21 Jul 2018 18:26

Tgt Ion: 83 Resp: 1378

Ion Ratio Lower Upper

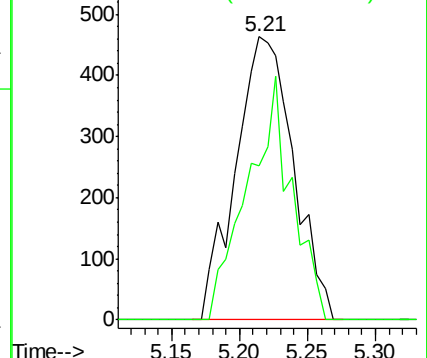
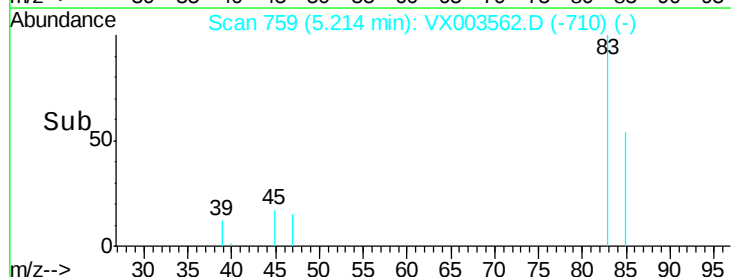
83 100

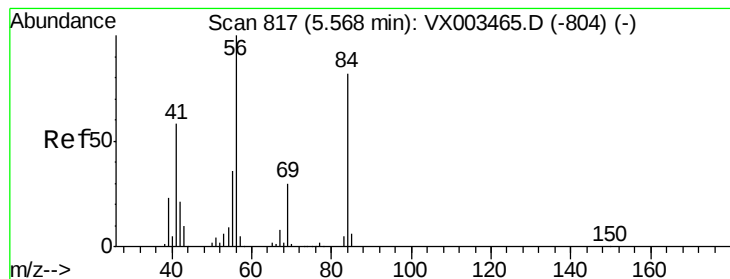
85 54.4 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 0.99 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318RE

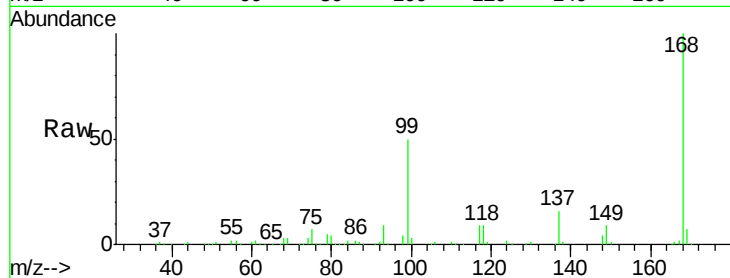
Tot Ion: 56 Resp: 4593

Ion Ratio Lower Upper

56 100

69 159.2 23.7 35.5#

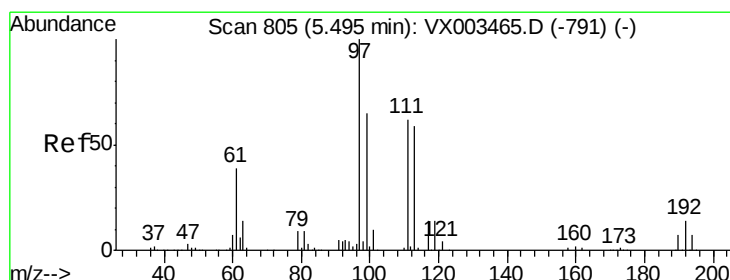
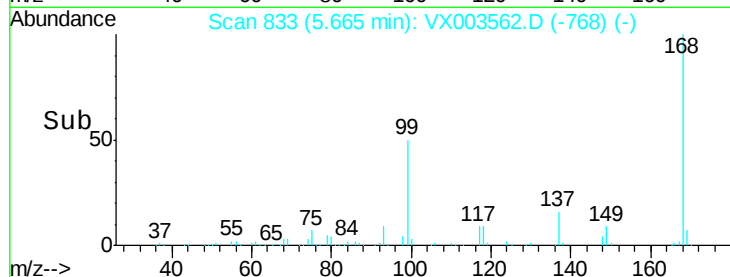
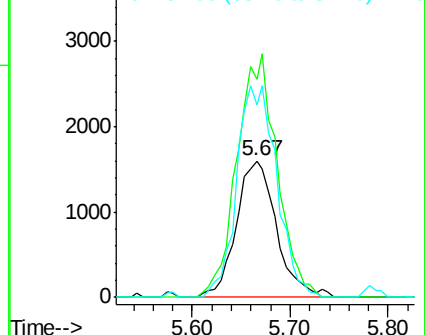
84 140.6 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.29 ug/l

RT: 5.49 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

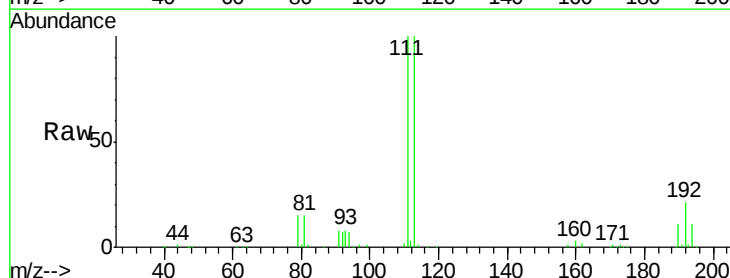
Tgt Ion: 97 Resp: 1247

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

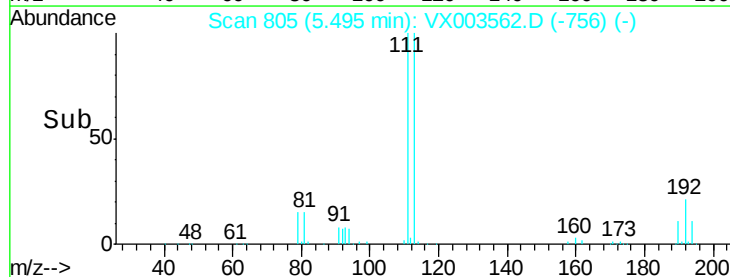
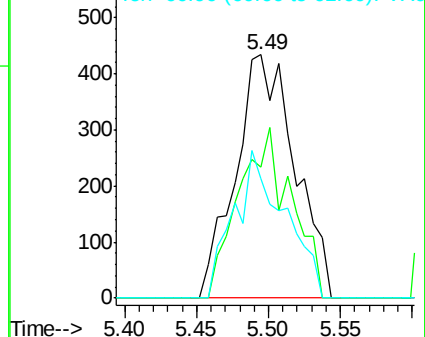
61 51.7 36.4 54.6

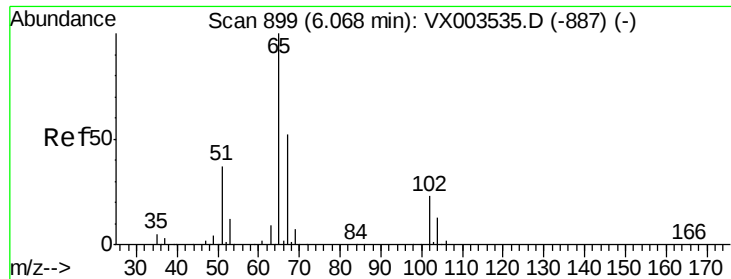


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

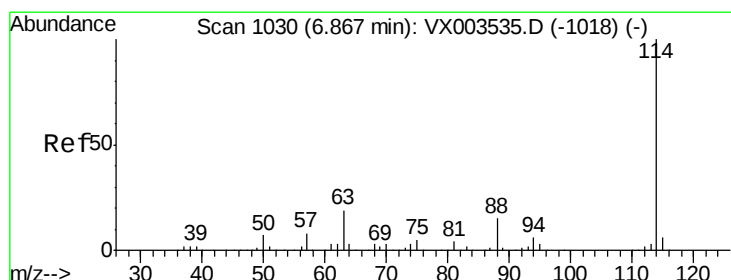
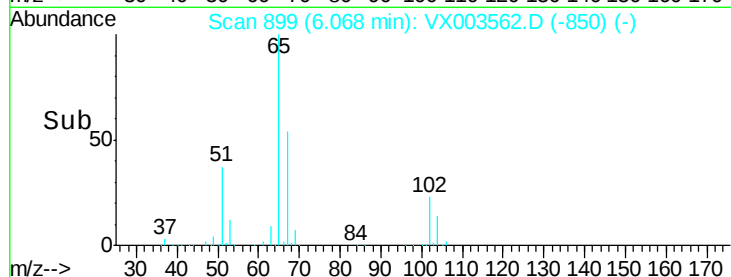
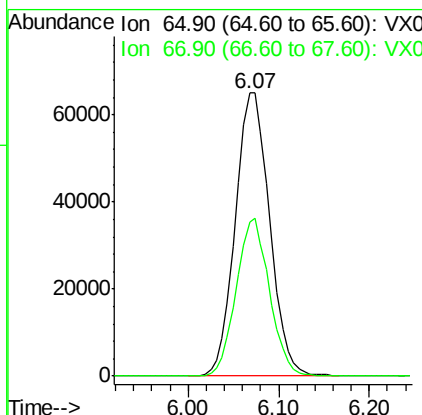
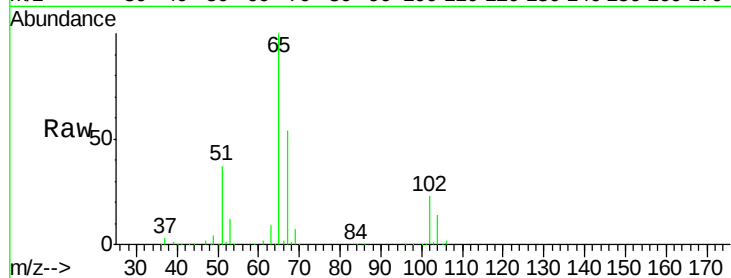




#33
 1,2-Dichloroethane-d4
 Concen: 55.36 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003562.D
 Acq: 21 Jul 2018 18:26

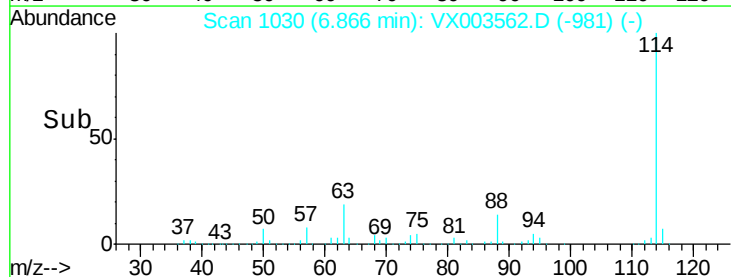
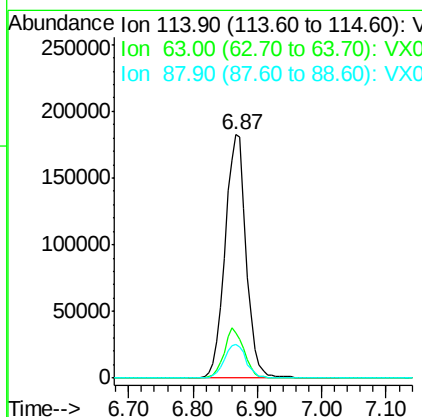
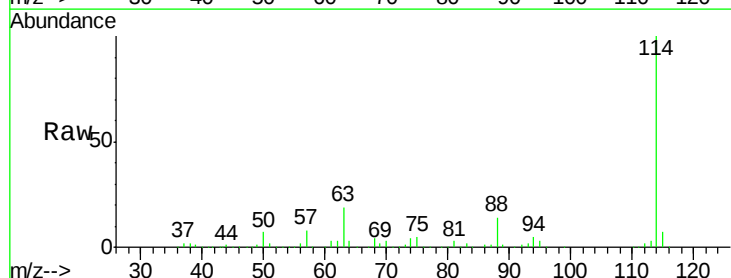
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D1-071318RE

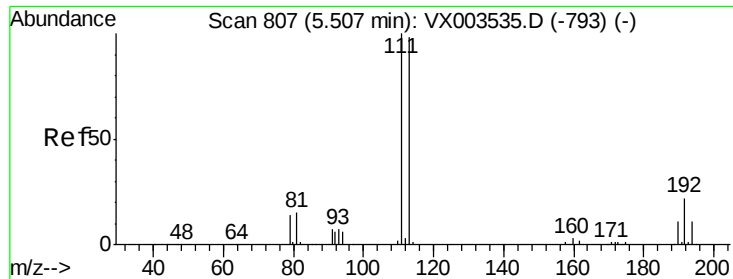
Tot Ion: 65 Resp: 171232
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003562.D
 Acq: 21 Jul 2018 18:26

Tgt Ion: 114 Resp: 422925
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 41.4
 88 13.9 0.0 30.0

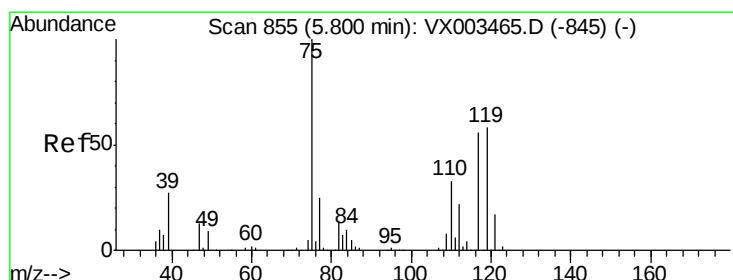
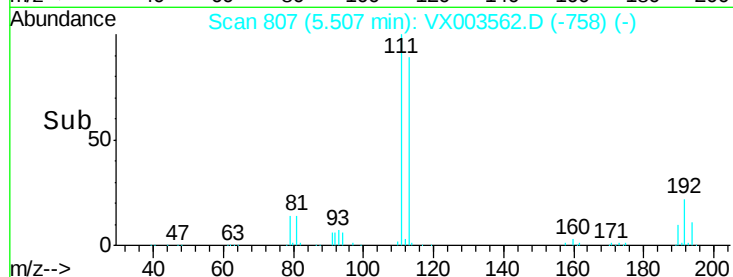
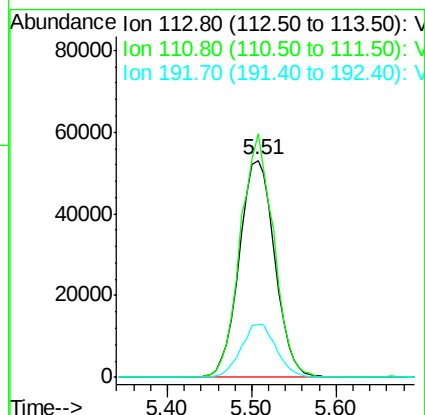
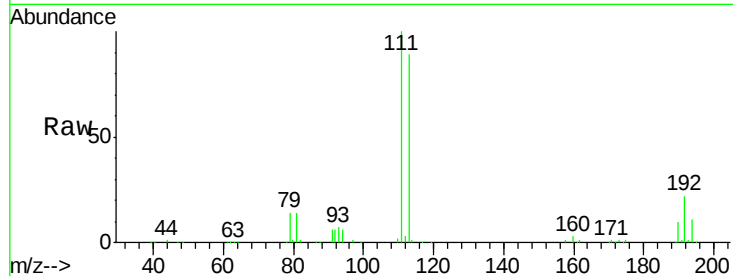




#35
 Dibromofluoromethane
 Concen: 46.96 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003562.D
 Acq: 21 Jul 2018 18:26

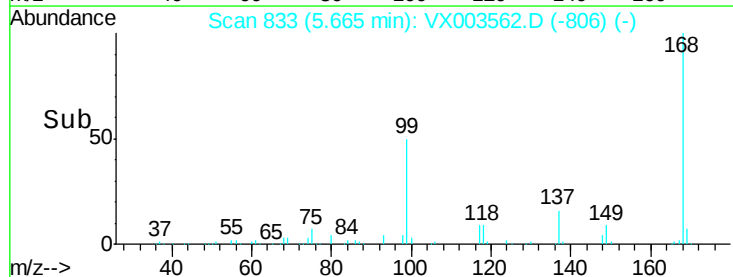
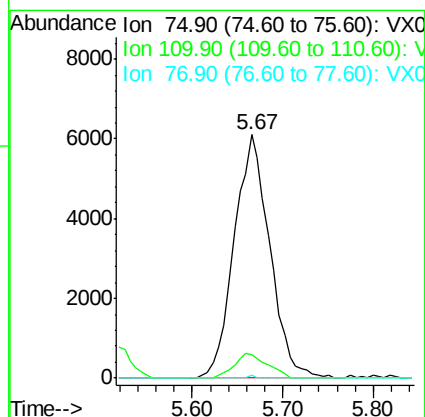
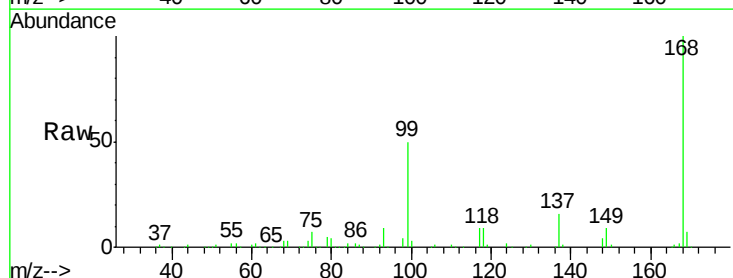
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D1-071318RE

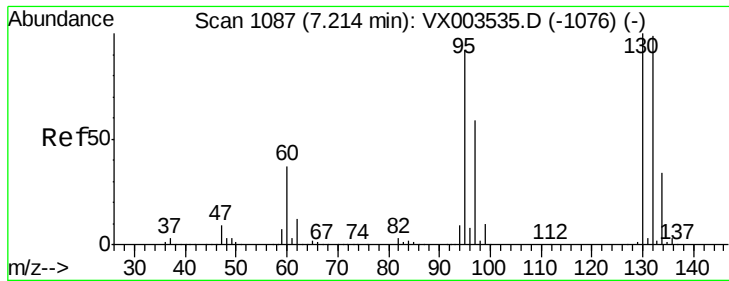
Tot Ion:113 Resp: 151279
 Ion Ratio Lower Upper
 113 100
 111 105.3 81.4 122.0
 192 24.2 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 3.63 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003562.D
 Acq: 21 Jul 2018 18:26

Tgt Ion: 75 Resp: 16571
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.1 54.4#
 77 0.1 24.3 36.5#





#44

Trichloroethene

Concen: 71.89 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

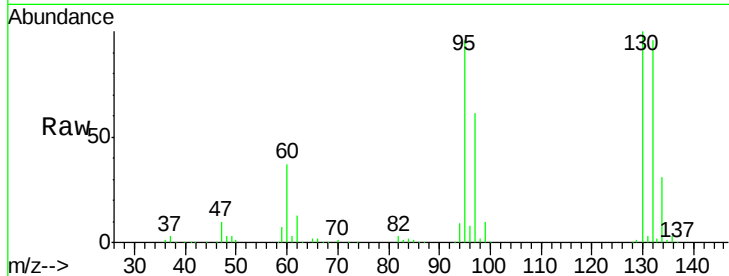
RE105D1-071318RE

Tot Ion:130 Resp: 295575

Ion Ratio Lower Upper

130 100

95 95.9 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

150000

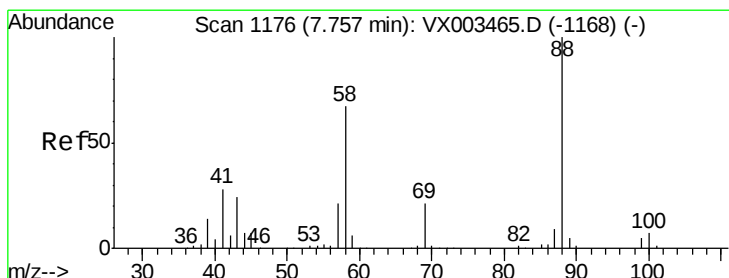
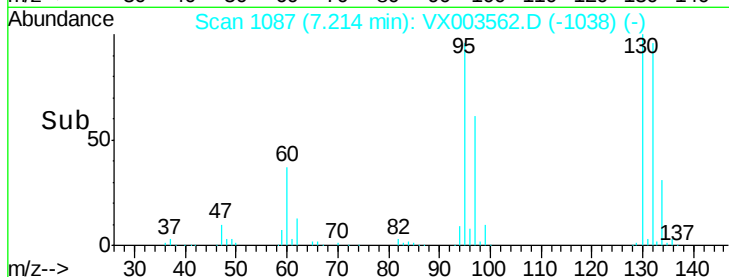
100000

50000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: 17.93 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

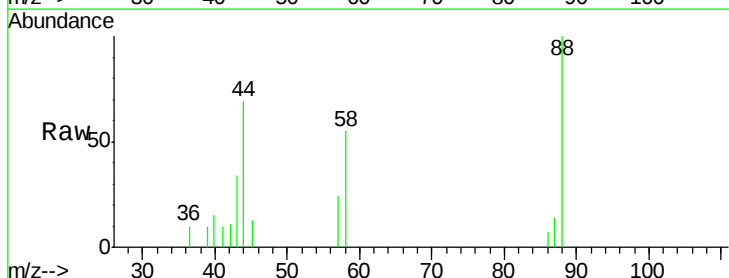
Tgt Ion: 88 Resp: 1408

Ion Ratio Lower Upper

88 100

43 43.5 29.8 44.6

58 72.8 57.1 85.7



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

7.76

800

600

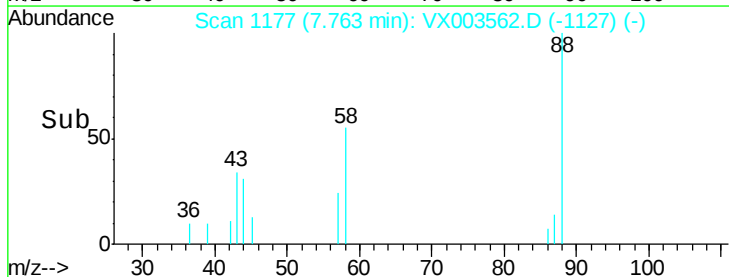
400

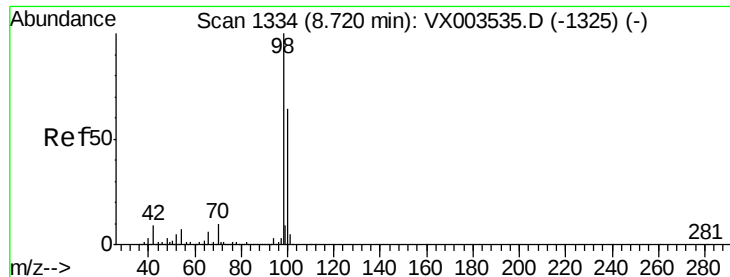
200

0

7.70 7.75 7.80 7.85

Time-->





#50

Toluene-d8

Concen: 47.63 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

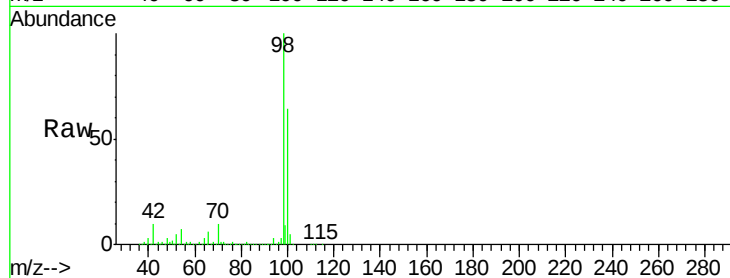
RE105D1-071318RE

Tot Ion: 98 Resp: 576633

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

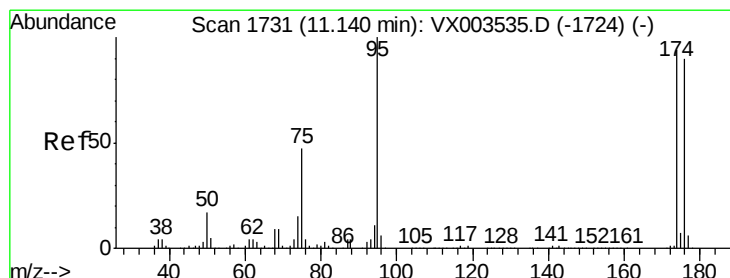
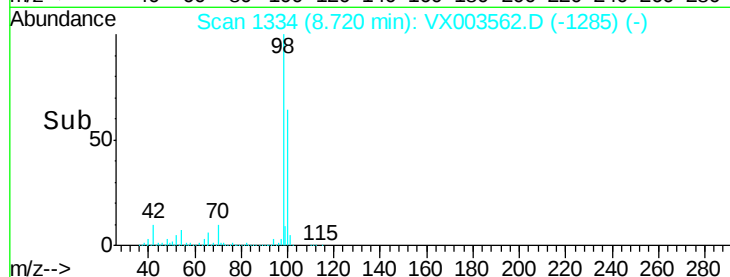
300000

200000

100000

0

Time--> 8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 43.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

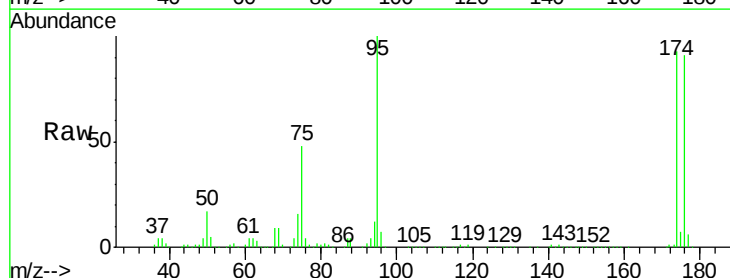
Tgt Ion: 95 Resp: 192372

Ion Ratio Lower Upper

95 100

174 94.5 0.0 187.4

176 91.6 0.0 181.0



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

11.14

200000

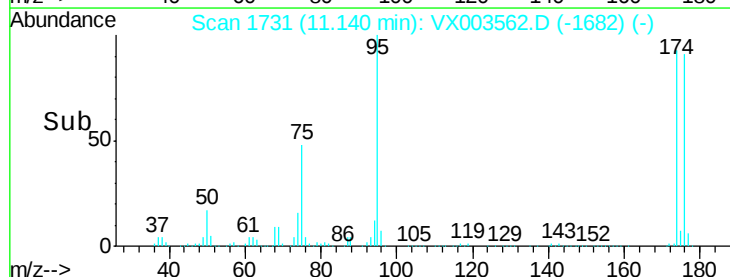
150000

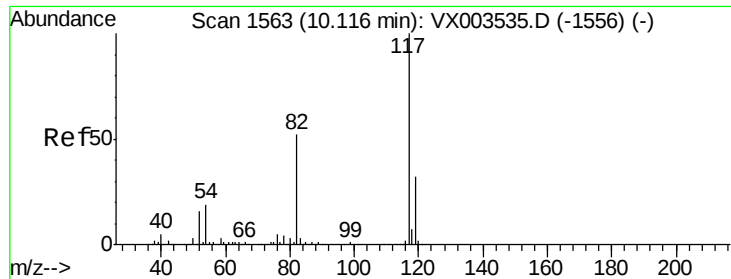
100000

50000

0

Time--> 11.10 11.20

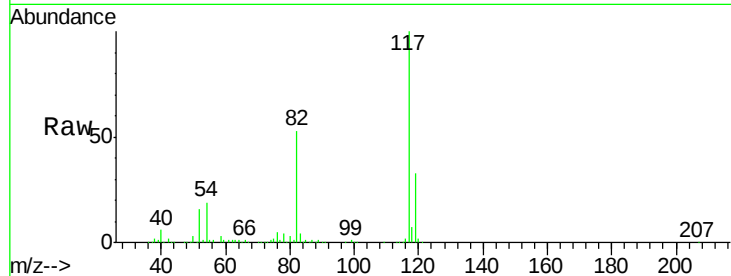




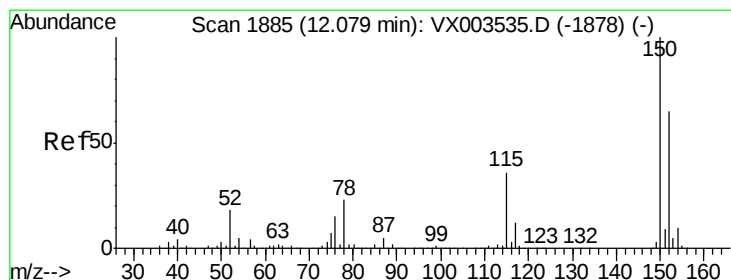
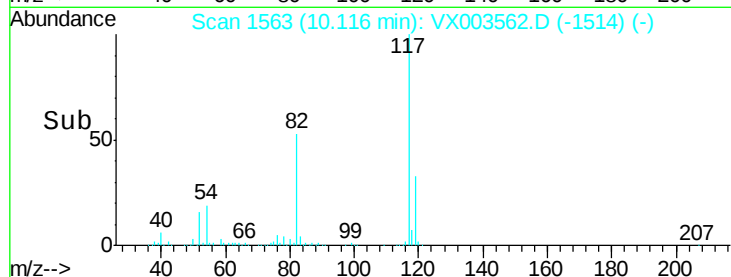
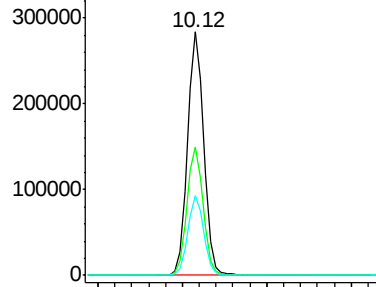
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003562.D
Acq: 21 Jul 2018 18:26

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-071318RE

Tot Ion:117 Resp: 379281
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.6 25.8 38.6

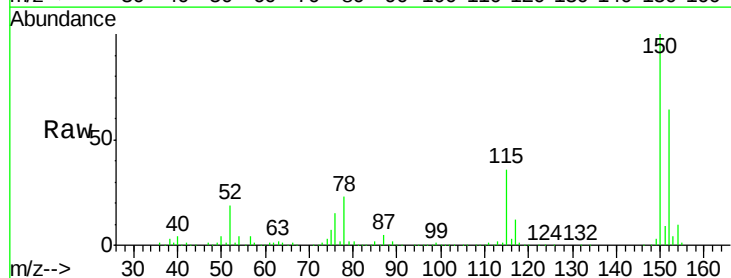


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

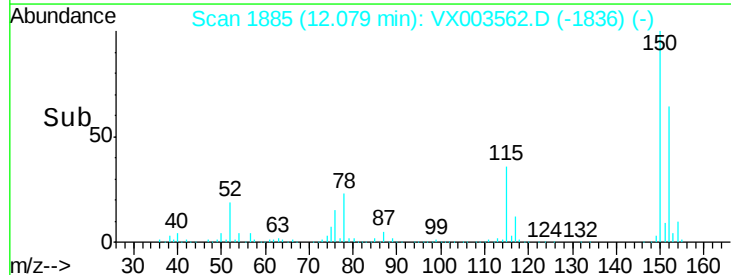
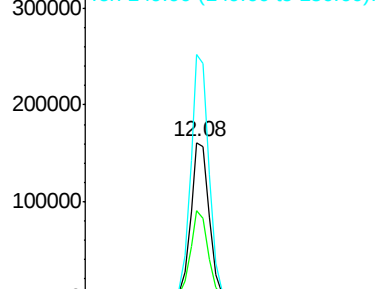


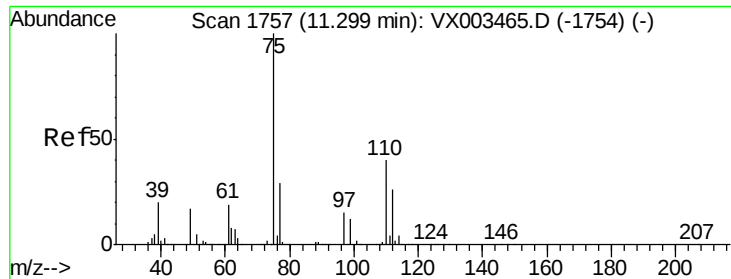
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003562.D
Acq: 21 Jul 2018 18:26

Tgt Ion:152 Resp: 202912
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 156.0 0.0 347.2



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: 25.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

Instrument :

MSVOA_X

ClientSampleId :

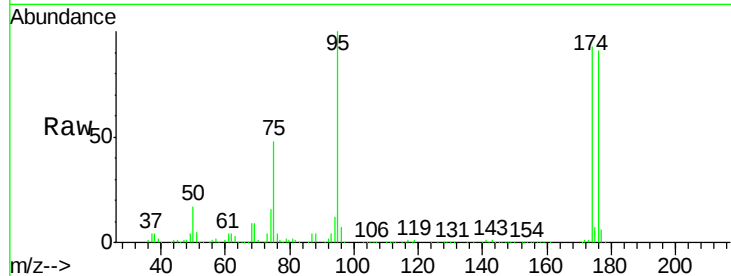
RE105D1-071318RE

Tot Ion: 75 Resp: 92616

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

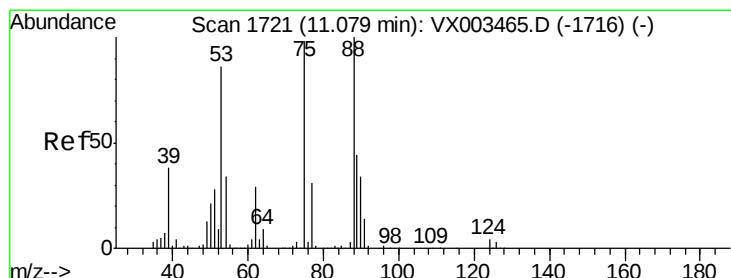
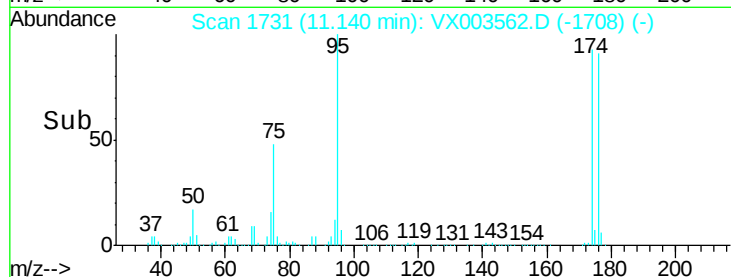
40000

20000

0

11.10 11.14 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 71.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003562.D

Acq: 21 Jul 2018 18:26

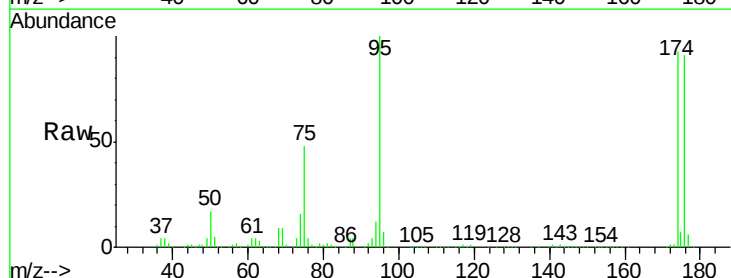
Tgt Ion: 75 Resp: 92616

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

100000

80000

60000

40000

20000

0

11.10 11.14 11.20

Time-->

