

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032119\
 Data File : VX008303.D
 Acq On : 21 Mar 2019 20:22
 Operator : JC/SP
 Sample : K1860-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20190311

Quant Time: Mar 22 08:47:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	200754	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	316809	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304641	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131906	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	125277	41.43	ug/l	0.00
Spiked Amount			Recovery	=	82.86%	
35) Dibromofluoromethane	5.50	113	95355	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	
50) Toluene-d8	8.71	98	408644	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.13	95	141767	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	

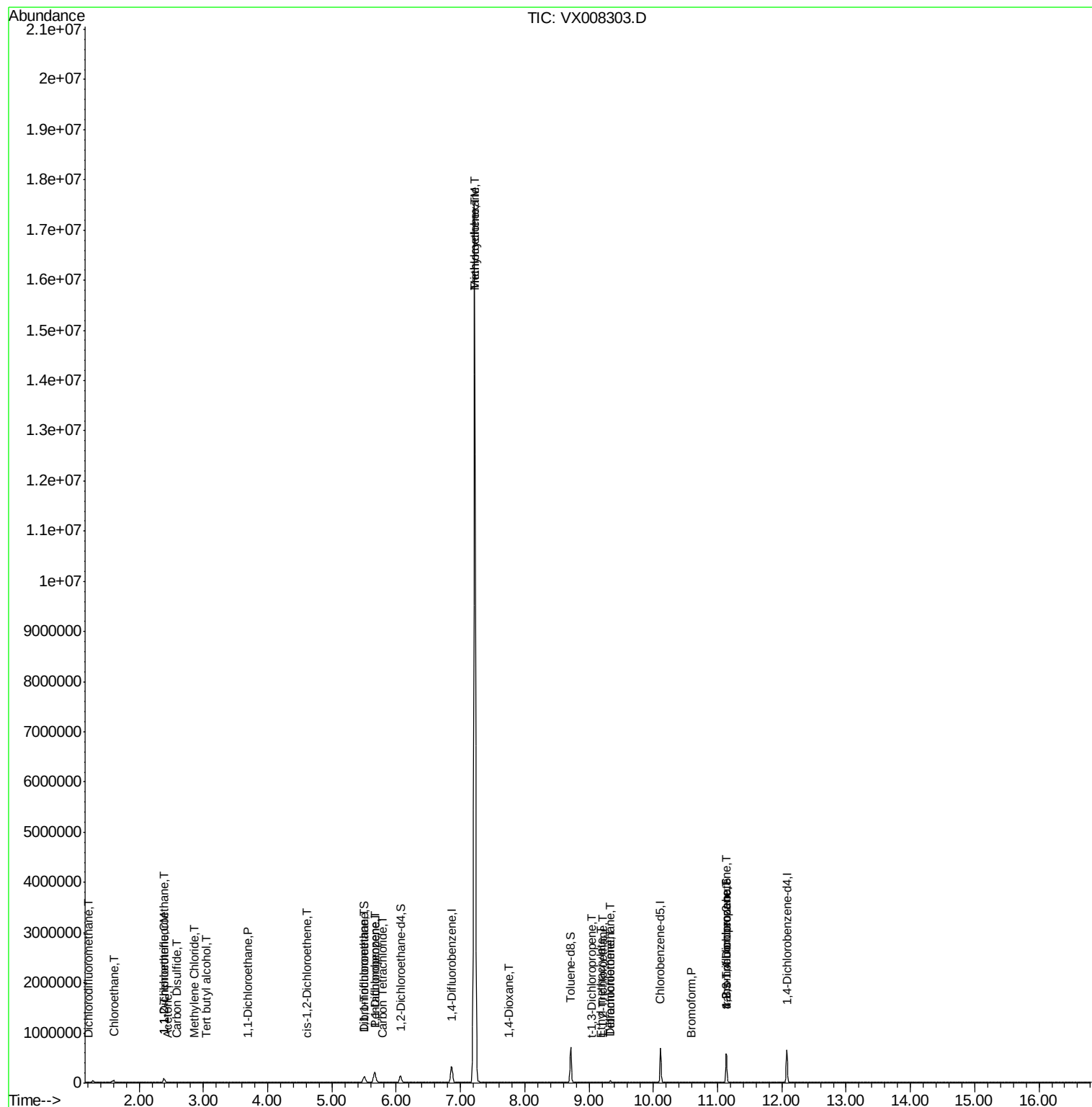
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	619	0.254	ug/l	77
6) Chloroethane	1.61	64	24749	12.963	ug/l #	52
9) 1,1,2-Trichlorotrifluoroet	2.39	101	23752	9.206	ug/l	97
11) Tert butyl alcohol	3.05	59	429	0.663	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	11125	4.567	ug/l	94
13) Acrolein	2.29	56	215	Below Cal	#	81
16) Acetone	2.44	43	1262	0.736	ug/l #	84
17) Carbon Disulfide	2.57	76	662	0.757	ug/l #	33
20) Methylene Chloride	2.87	84	955	0.334	ug/l #	73
24) 1,1-Dichloroethane	3.70	63	5221	0.977	ug/l	93
27) cis-1,2-Dichloroethene	4.61	96	7148	2.383	ug/l	91
32) 1,1,1-Trichloroethane	5.49	97	896	0.216	ug/l #	43
36) 1,1-Dichloropropene	5.67	75	15164	4.111	ug/l #	51
38) Carbon Tetrachloride	5.79	117	5130	1.561	ug/l	89
39) Methylcyclohexane	7.22	83	75288	16.962	ug/l #	1
44) Trichloroethene	7.22	130	5840310	2187.906	ug/l	91
49) 1,4-Dioxane	7.74	88	1000	15.249	ug/l #	79
53) t-1,3-Dichloropropene	9.05	75	106	1.446	ug/l #	43
55) 1,1,2-Trichloroethane	9.21	97	2448	0.935	ug/l	95
56) Ethyl methacrylate	9.18	69	149	0.558	ug/l #	57
60) Dibromochloromethane	9.34	129	6309	2.509	ug/l #	12
64) Tetrachloroethene	9.34	164	6804	2.476	ug/l	97
71) Bromoform	10.58	173	47	2.222	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	74399	20.054	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	74399	51.090	ug/l #	12

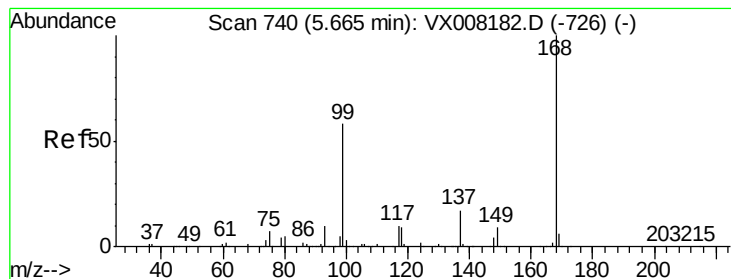
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032119\
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Quant Title : SW846 8260
QLast Update : Tue Mar 19 13:15:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

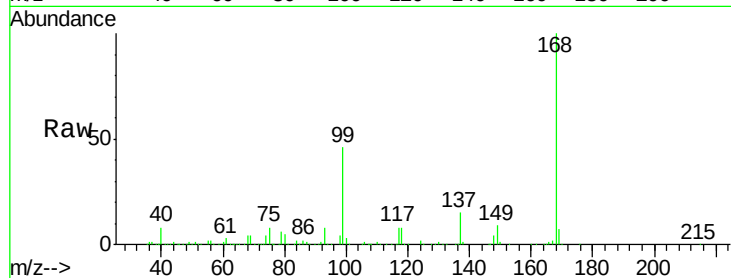
RE105D2-20190311

Tot Ion:168 Resp: 200754

Ion Ratio Lower Upper

168 100

99 45.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

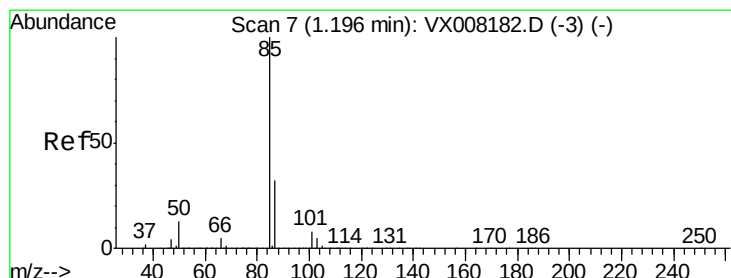
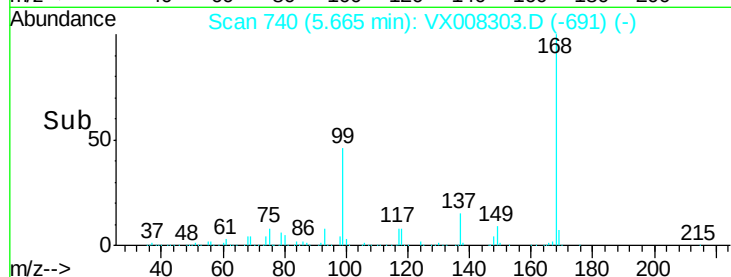
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.254 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX008303.D

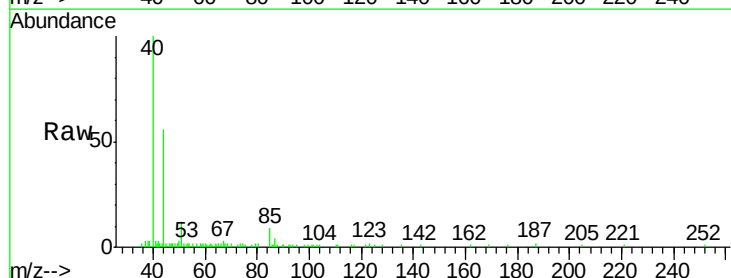
Acq: 21 Mar 2019 20:22

Tgt Ion: 85 Resp: 619

Ion Ratio Lower Upper

85 100

87 45.5 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

500

400

300

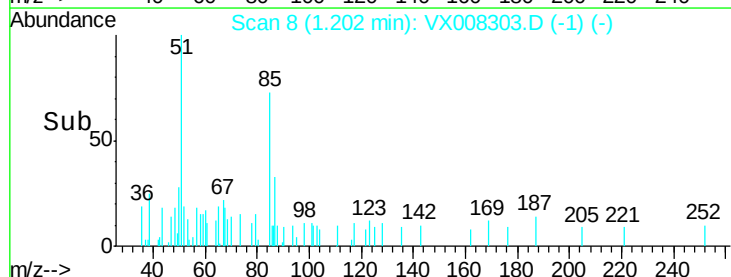
200

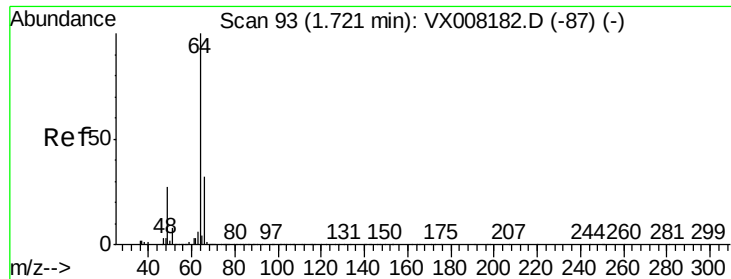
100

0

1.16 1.18 1.20 1.22 1.24

Time-->





#6

Chloroethane

Concen: 12.963 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.11 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

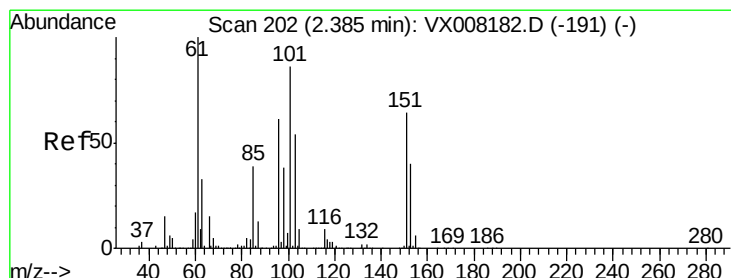
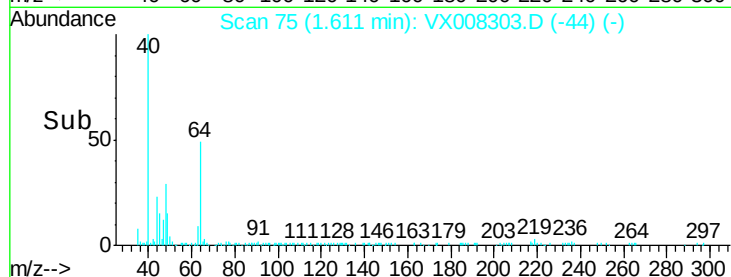
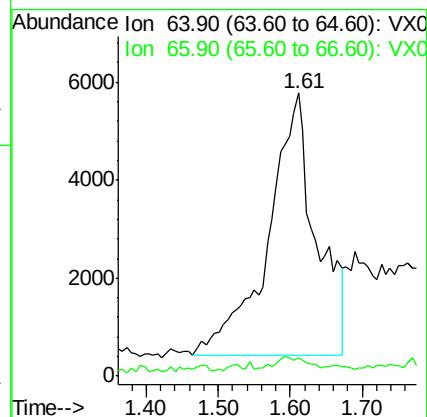
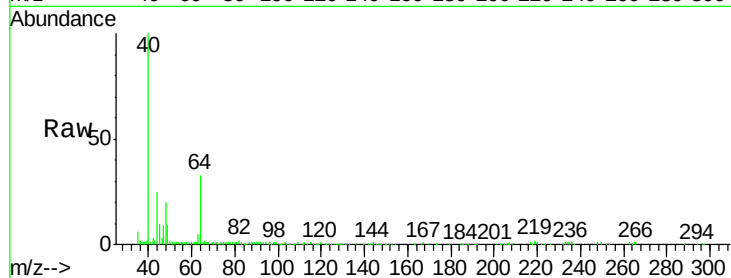
RE105D2-20190311

Tot Ion: 64 Resp: 24749

Ion Ratio Lower Upper

64 100

66 4.7 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.206 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

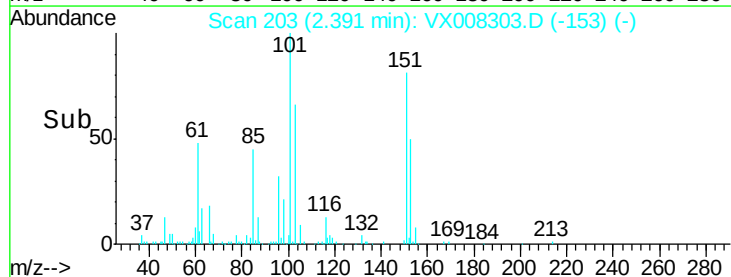
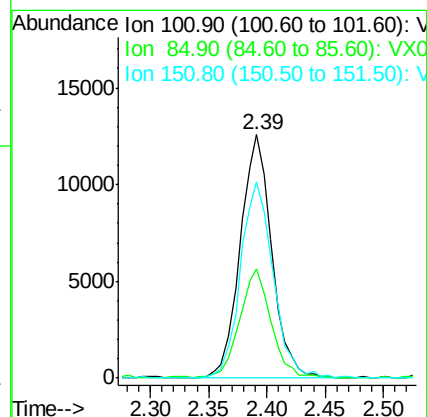
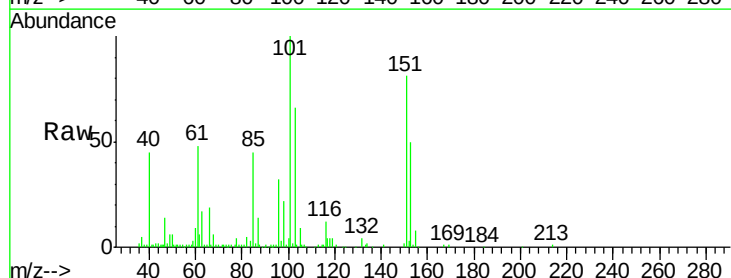
Tgt Ion:101 Resp: 23752

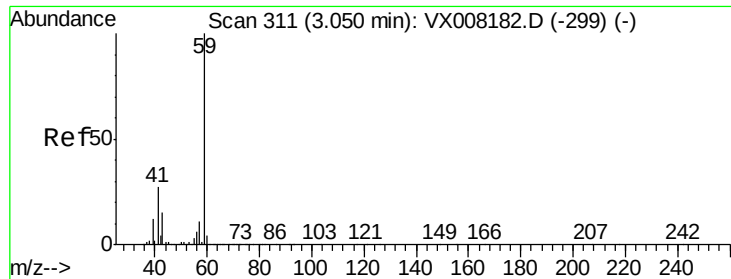
Ion Ratio Lower Upper

101 100

85 45.1 33.8 50.6

151 83.9 69.1 103.7



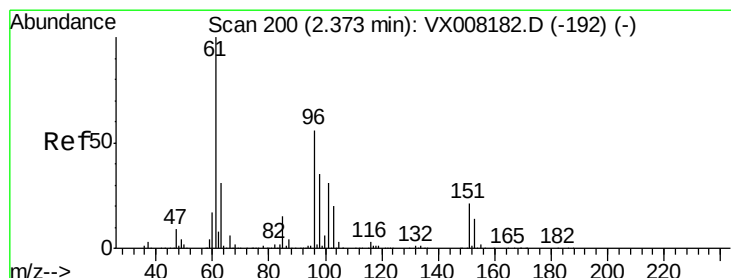
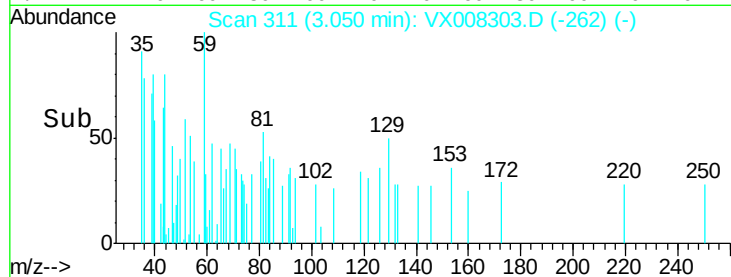
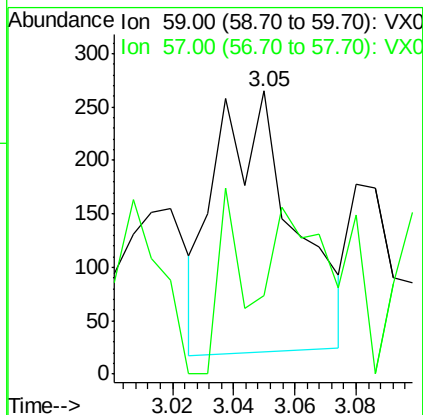
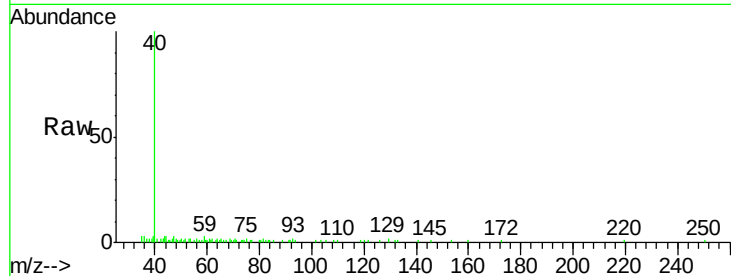


#11

Tert butyl alcohol
 Concen: 0.663 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. -0.00 min
 Lab File: VX008303.D
 Acq: 21 Mar 2019 20:22

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20190311

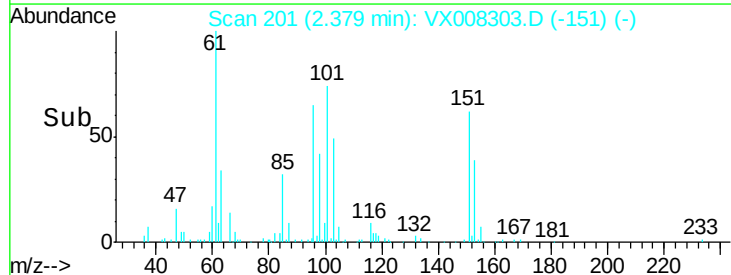
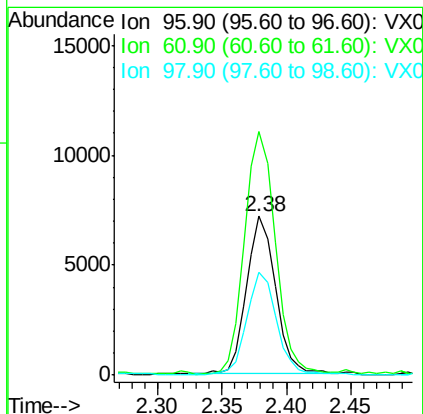
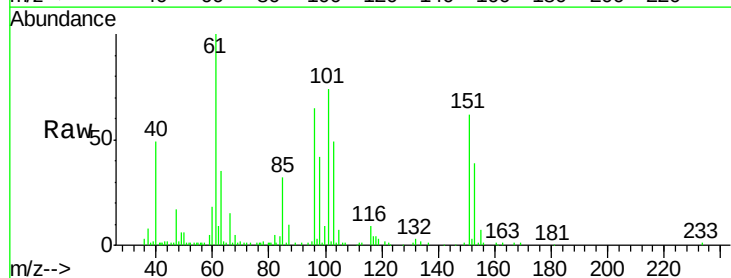
Tot Ion: 59 Resp: 429
 Ion Ratio Lower Upper
 59 100
 57 54.8 8.2 12.2#

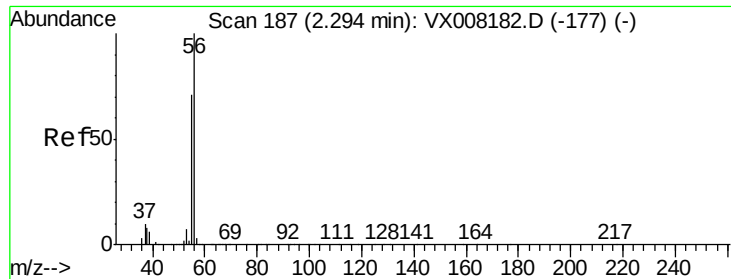


#12

1,1-Dichloroethene
 Concen: 4.567 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX008303.D
 Acq: 21 Mar 2019 20:22

Tgt Ion: 96 Resp: 11125
 Ion Ratio Lower Upper
 96 100
 61 152.6 129.8 194.6
 98 65.5 51.0 76.6

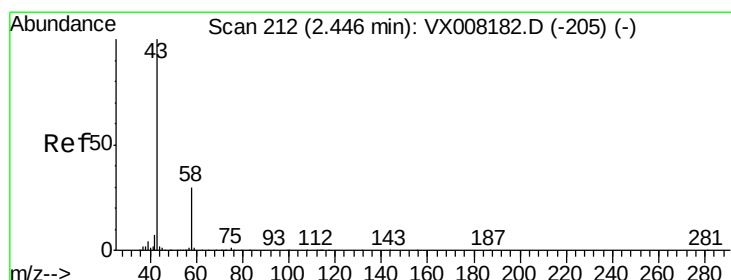
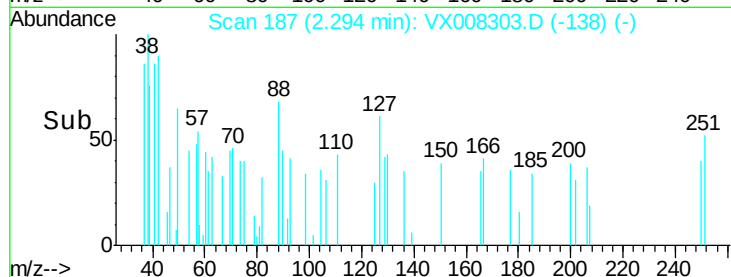
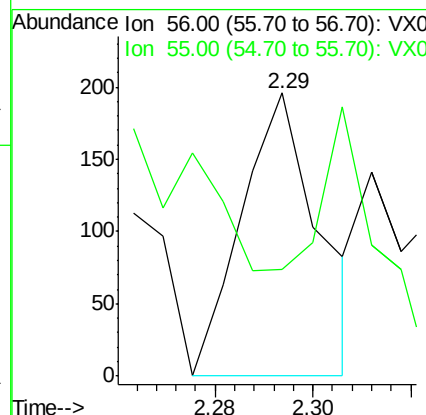
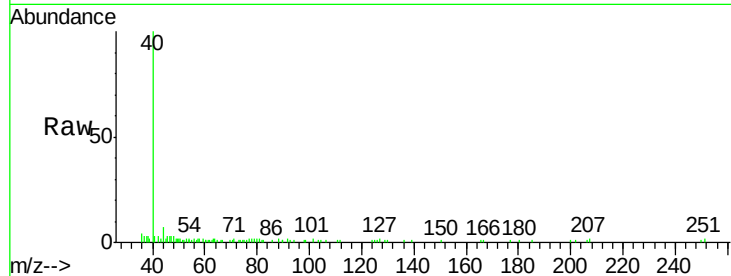




#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX008303.D
Acq: 21 Mar 2019 20:22

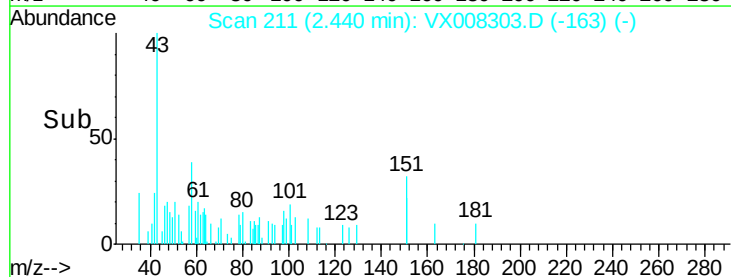
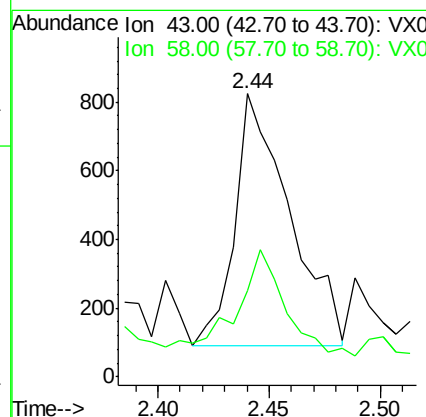
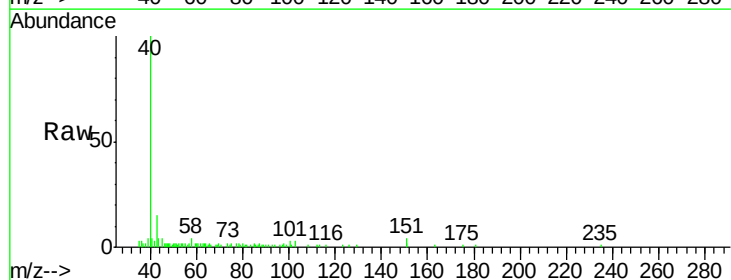
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20190311

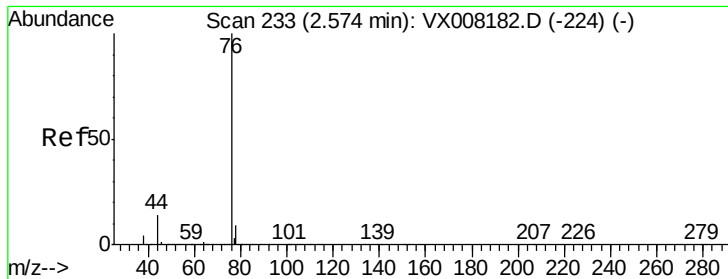
Tot Ion: 56 Resp: 215
Ion Ratio Lower Upper
56 100
55 87.9 57.8 86.6#



#16
Acetone
Concen: 0.736 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX008303.D
Acq: 21 Mar 2019 20:22

Tgt Ion: 43 Resp: 1262
Ion Ratio Lower Upper
43 100
58 22.9 25.5 38.3#





#17

Carbon Disulfide

Concen: 0.757 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

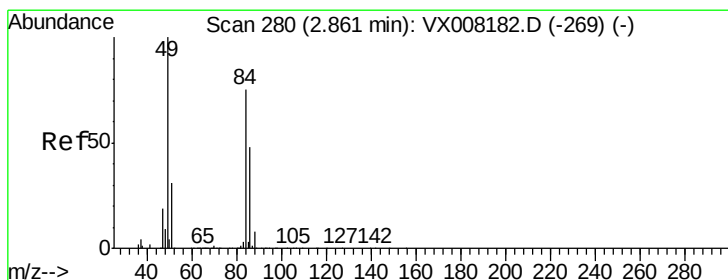
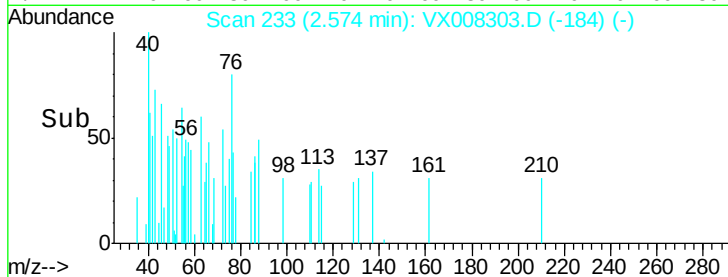
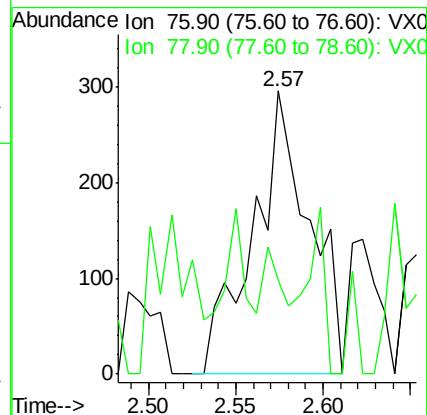
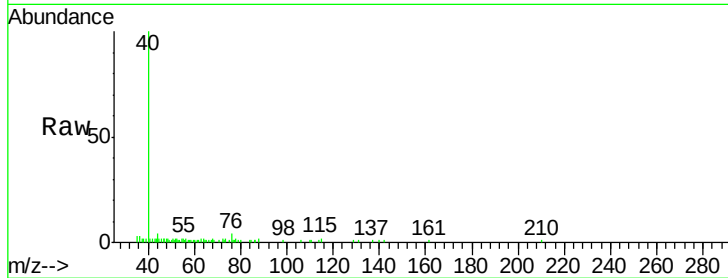
RE105D2-20190311

Tot Ion: 76 Resp: 662

Ion Ratio Lower Upper

76 100

78 33.1 7.2 10.8#



#20

Methylene Chloride

Concen: 0.334 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Tgt Ion: 84 Resp: 955

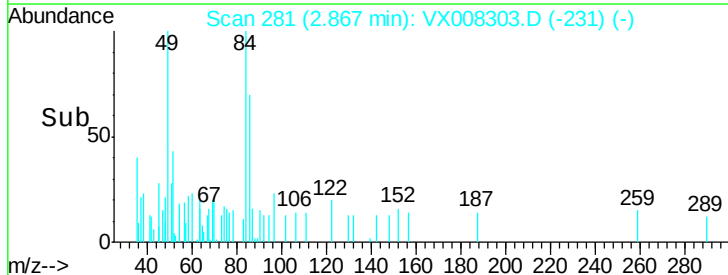
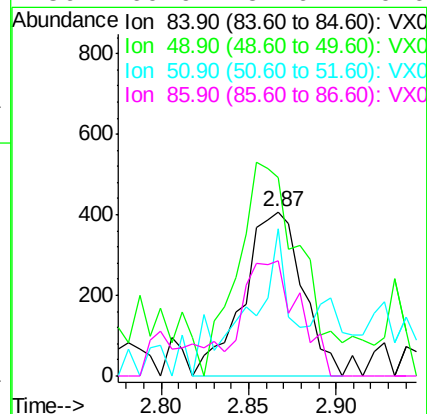
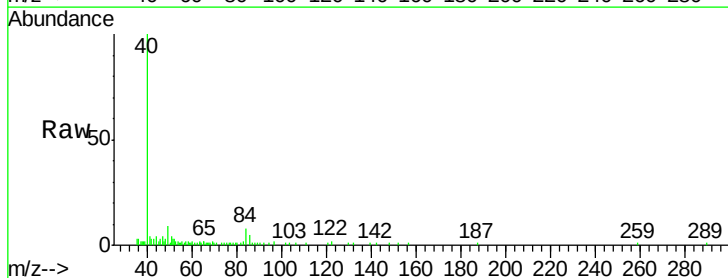
Ion Ratio Lower Upper

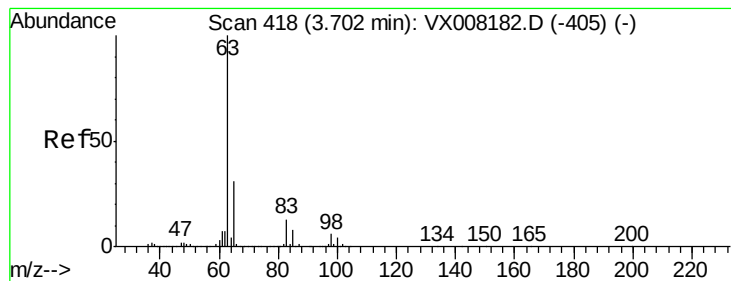
84 100

49 100.2 99.3 148.9

51 89.2 31.3 46.9#

86 69.9 52.6 79.0





#24

1,1-Dichloroethane

Concen: 0.977 ug/l

RT: 3.70 min Scan# 418

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

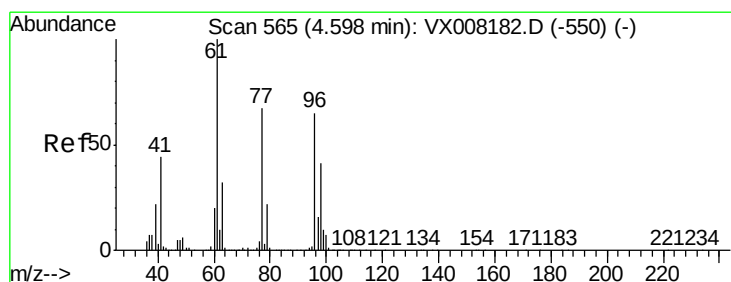
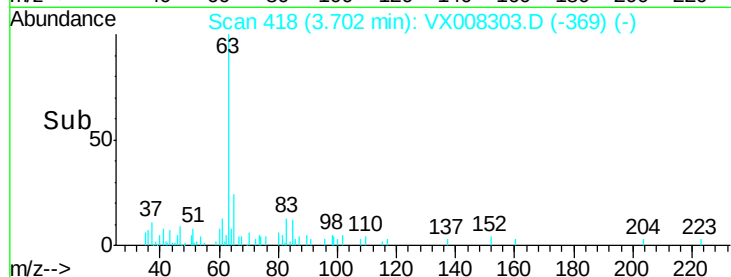
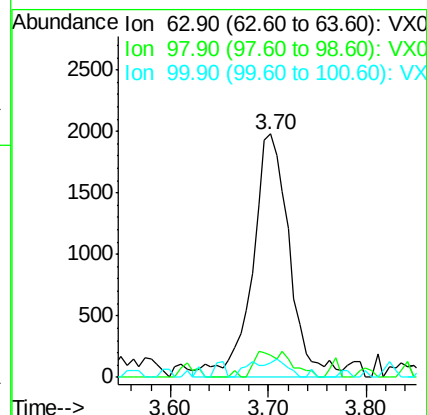
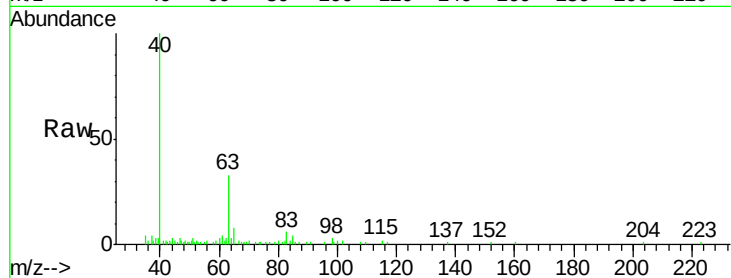
Tot Ion: 63 Resp: 5221

Ion Ratio Lower Upper

63 100

98 9.6 3.3 9.8

100 3.4 2.3 6.8



#27

cis-1,2-Dichloroethene

Concen: 2.383 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

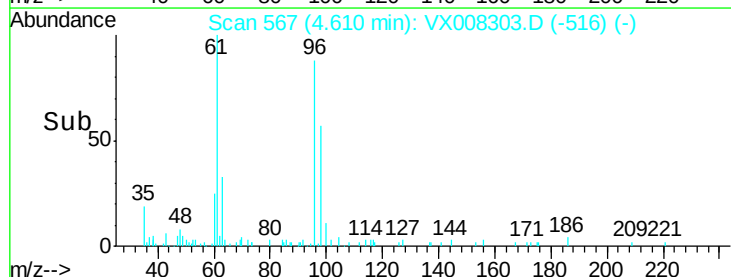
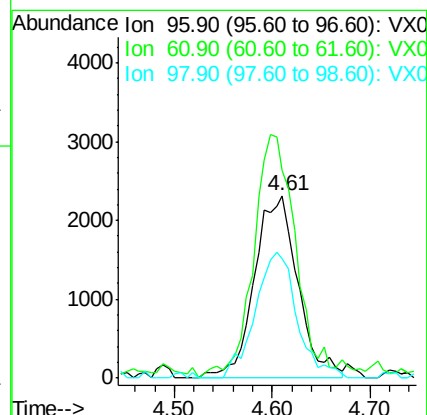
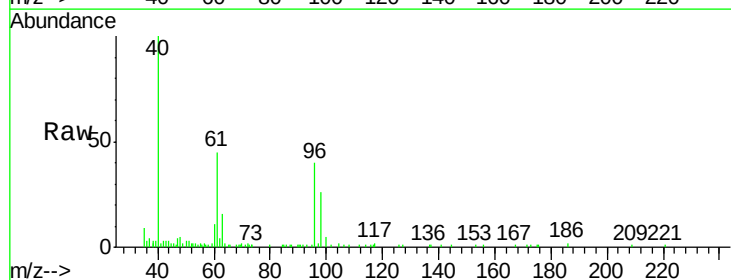
Tgt Ion: 96 Resp: 7148

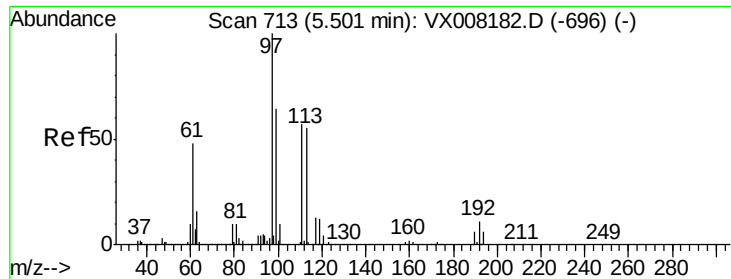
Ion Ratio Lower Upper

96 100

61 128.9 0.0 288.0

98 66.1 0.0 129.0





#32

1,1,1-Trichloroethane

Concen: 0.216 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

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RE105D2-20190311

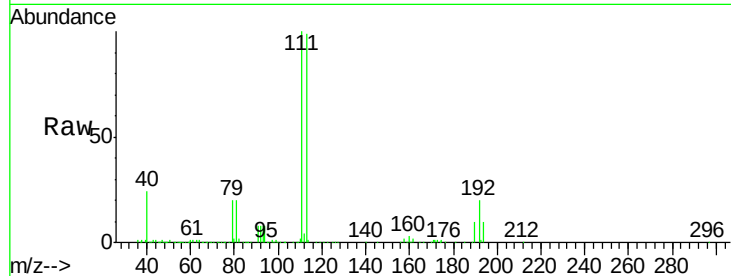
Tot Ion: 97 Resp: 896

Ion Ratio Lower Upper

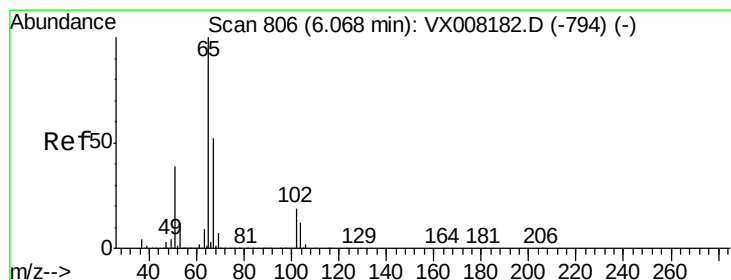
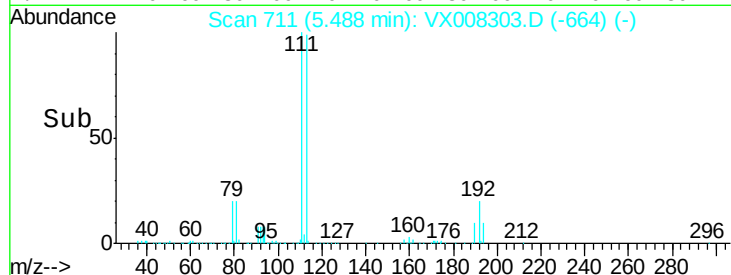
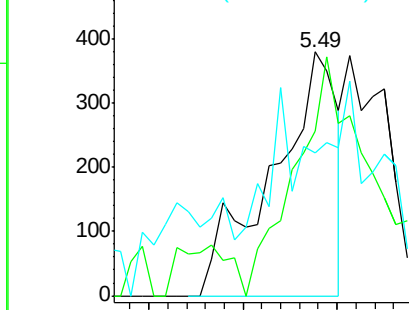
97 100

99 0.0 52.2 78.2#

61 31.0 34.9 52.3#



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: 41.434 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX008303.D

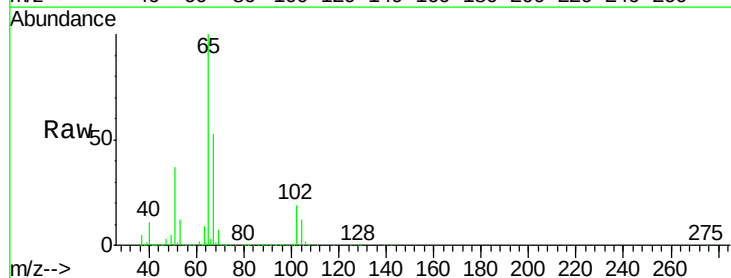
Acq: 21 Mar 2019 20:22

Tgt Ion: 65 Resp: 125277

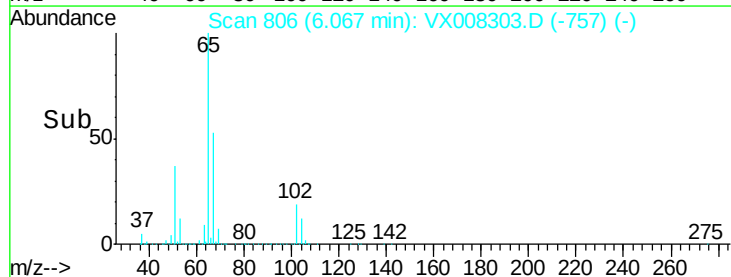
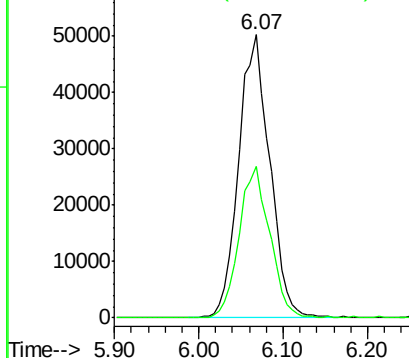
Ion Ratio Lower Upper

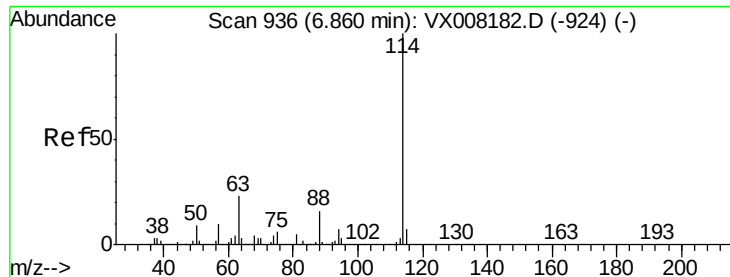
65 100

67 52.4 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

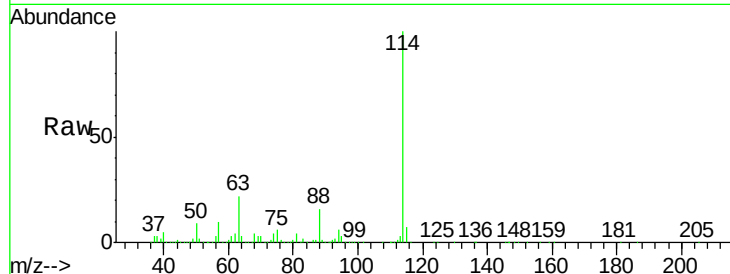
Tot Ion:114 Resp: 316809

Ion Ratio Lower Upper

114 100

63 21.7 0.0 39.8

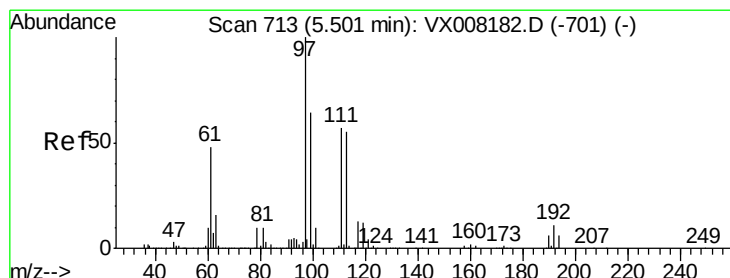
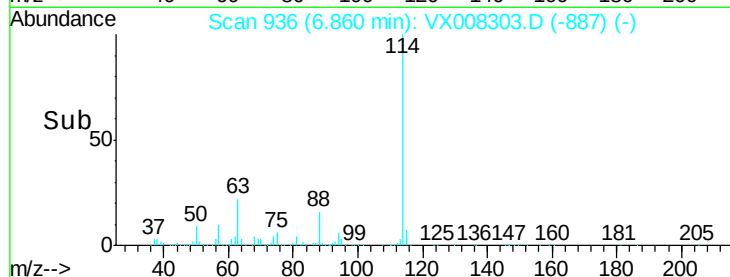
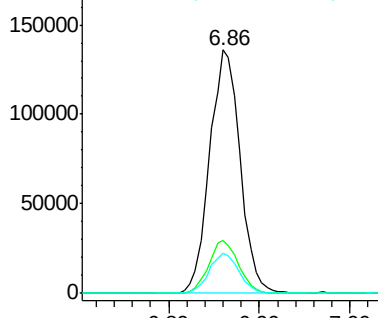
88 16.4 0.0 31.4



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: 44.961 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

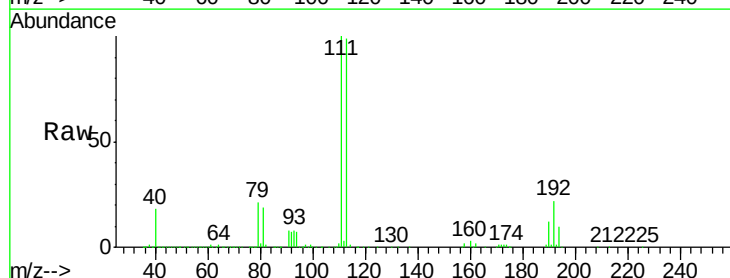
Tgt Ion:113 Resp: 95355

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

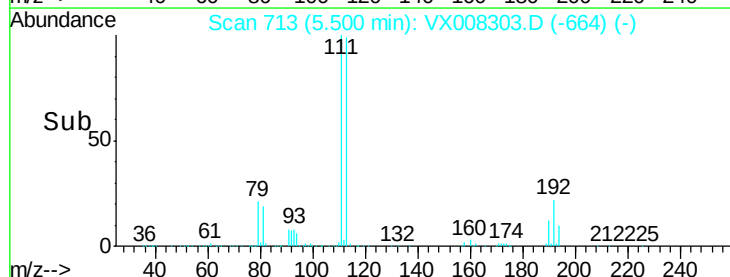
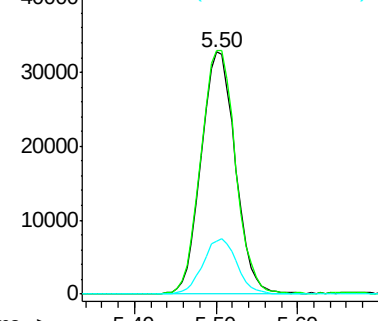
192 22.8 19.4 29.0

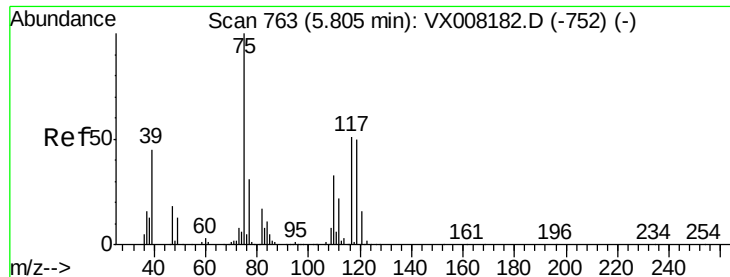


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.111 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

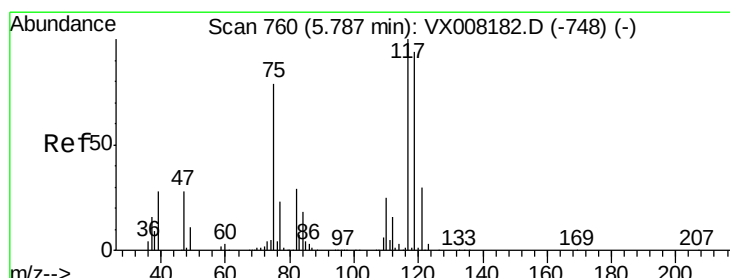
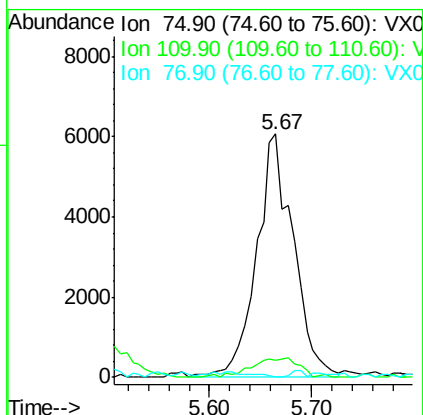
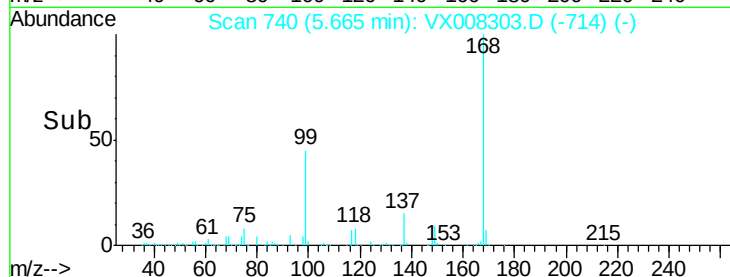
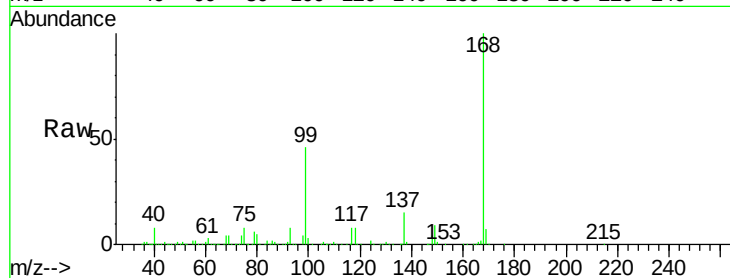
Tot Ion: 75 Resp: 15164

Ion Ratio Lower Upper

75 100

110 10.2 18.4 55.0#

77 1.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 1.561 ug/l

RT: 5.79 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

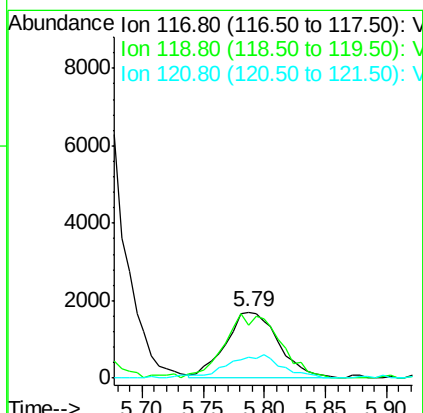
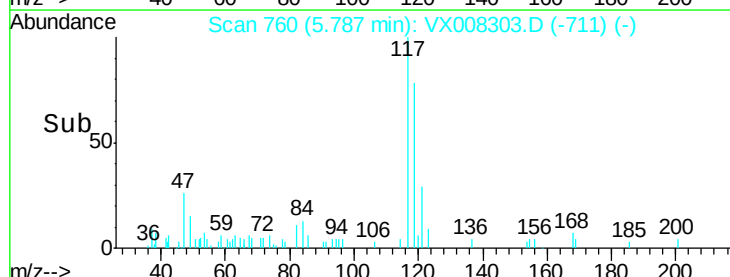
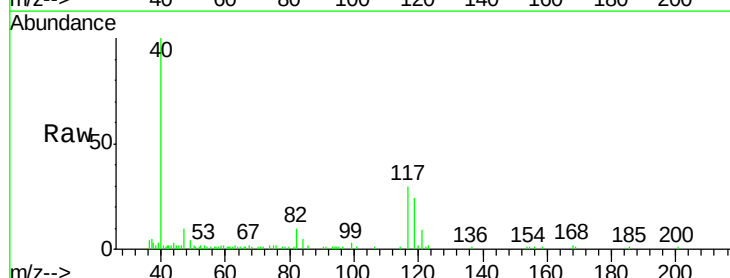
Tgt Ion:117 Resp: 5130

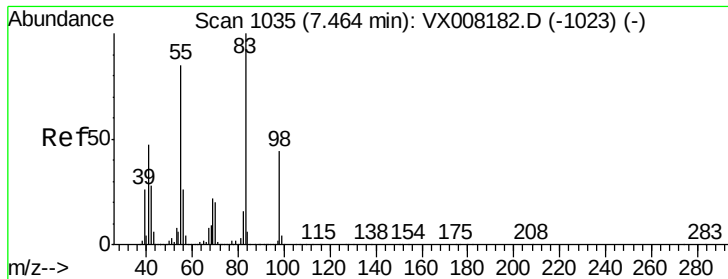
Ion Ratio Lower Upper

117 100

119 80.9 76.2 114.2

121 30.9 24.6 36.8





#39

Methylvlcyclohexane

Concen: 16.962 ug/l

RT: 7.22 min Scan# 995

Delta R.T. -0.24 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

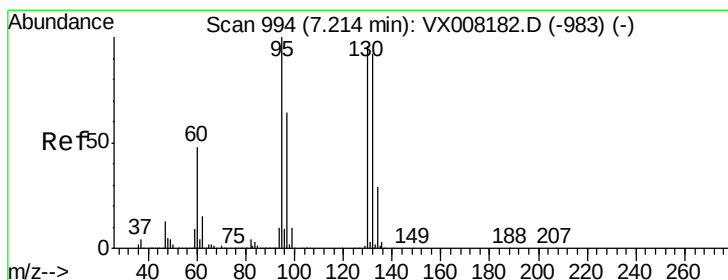
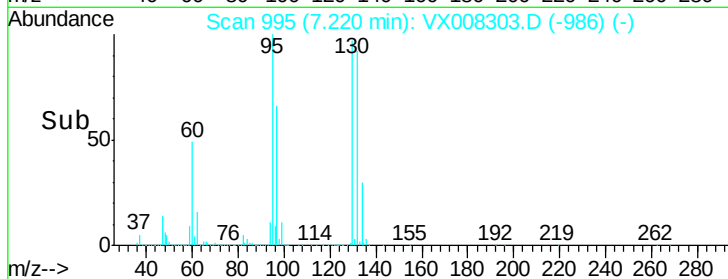
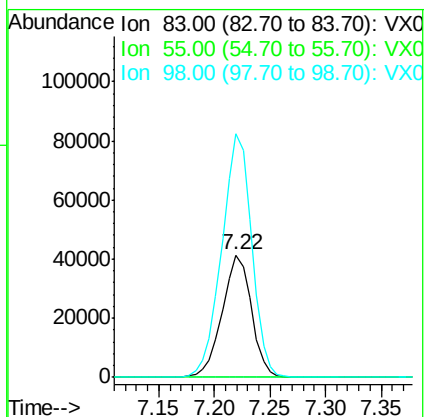
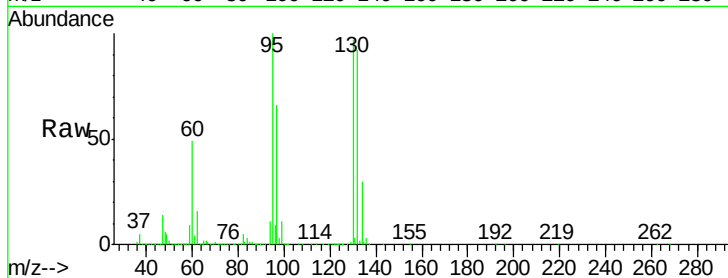
Tot Ion: 83 Resp: 75288

Ion Ratio Lower Upper

83 100

55 0.1 60.4 90.6#

98 198.5 36.5 54.7#



#44

Trichloroethene

Concen: 2187.906 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008303.D

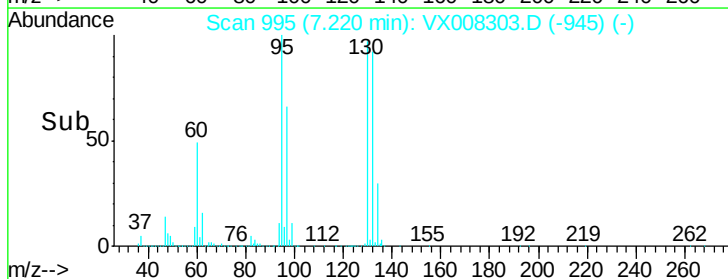
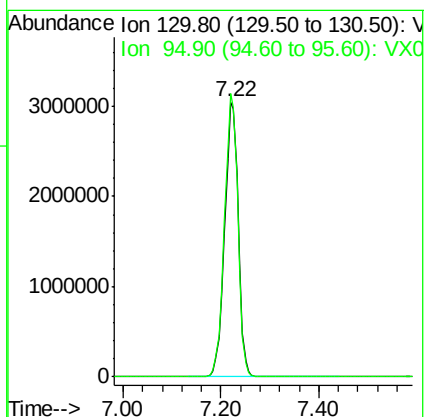
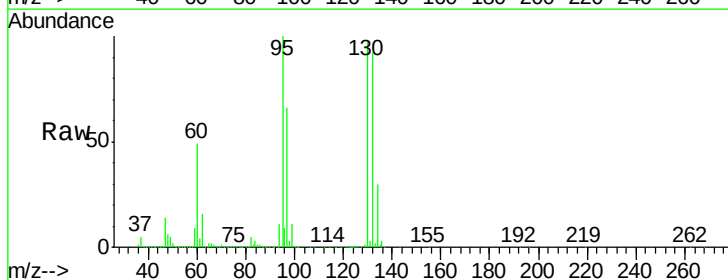
Acq: 21 Mar 2019 20:22

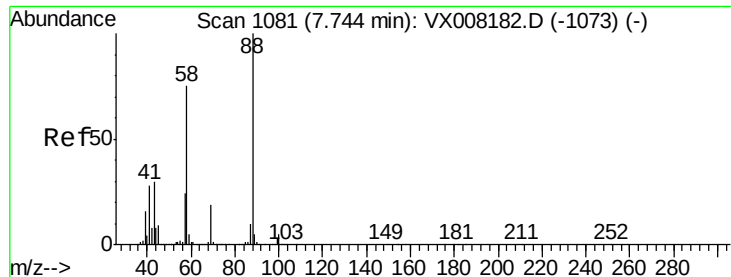
Tgt Ion:130 Resp: 5840310

Ion Ratio Lower Upper

130 100

95 103.0 0.0 188.0

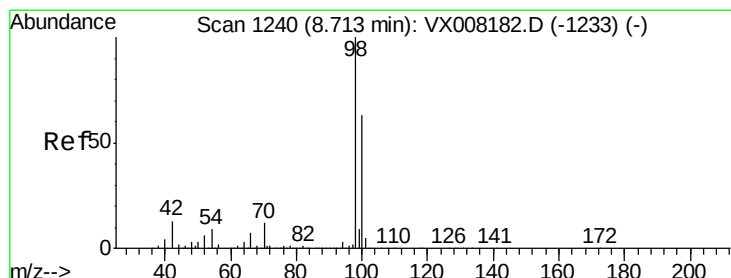
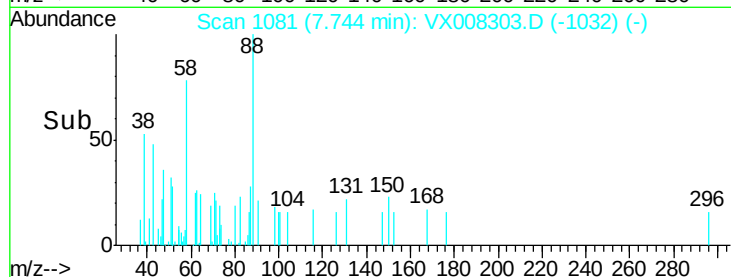
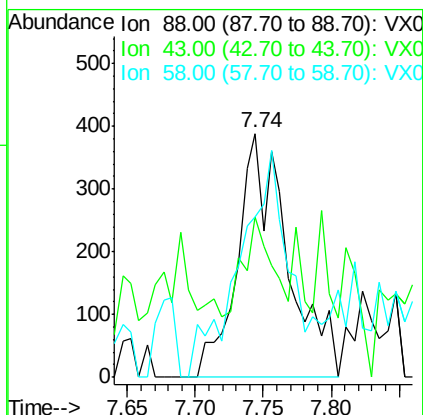
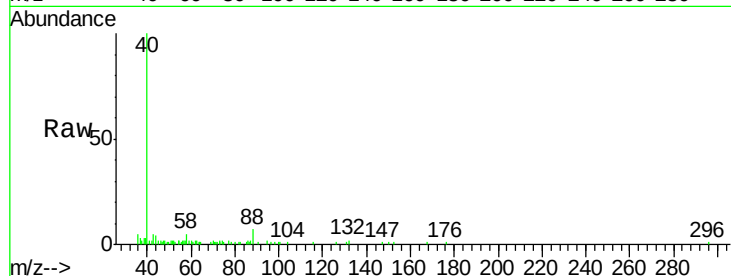




#49
 1,4-Dioxane
 Concen: 15.249 ug/l
 RT: 7.74 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VX008303.D
 Acq: 21 Mar 2019 20:22

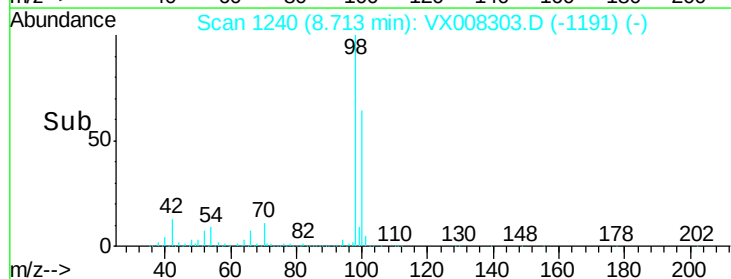
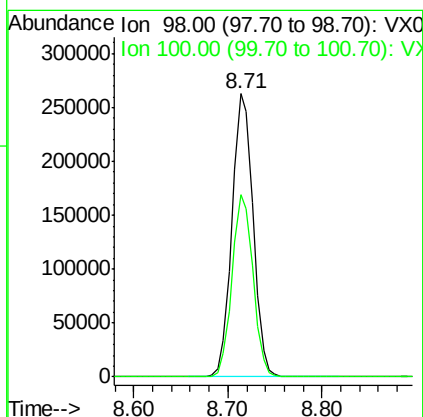
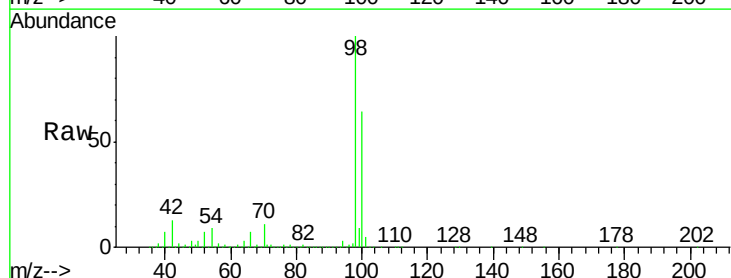
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20190311

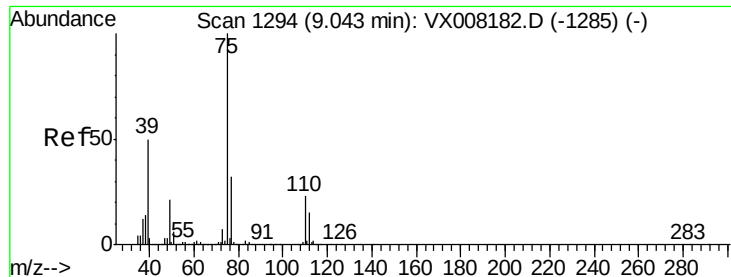
Tot Ion: 88 Resp: 1000
 Ion Ratio Lower Upper
 88 100
 43 35.5 25.1 37.7
 58 94.8 57.8 86.6#



#50
 Toluene-d8
 Concen: 50.821 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008303.D
 Acq: 21 Mar 2019 20:22

Tgt Ion: 98 Resp: 408644
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.7 77.5





#53

t-1,3-Dichloropropene

Concen: 1.446 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

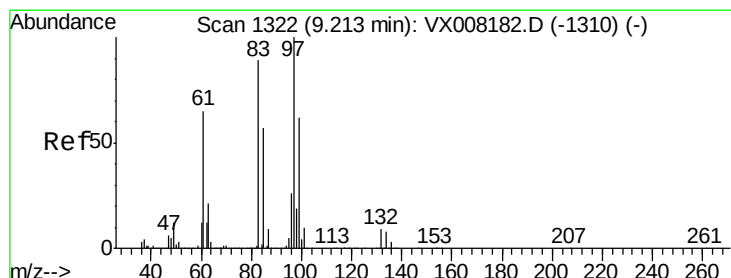
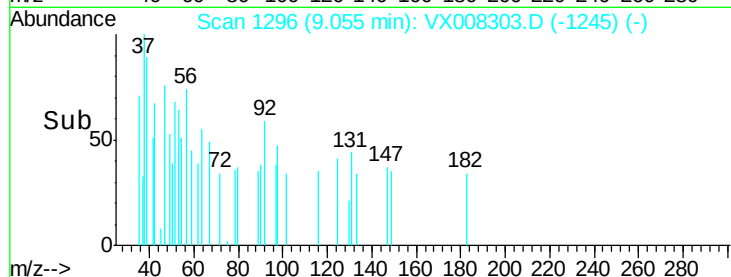
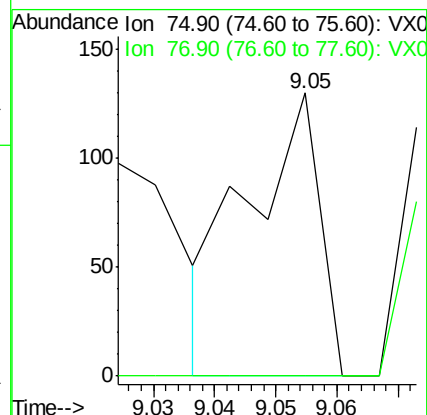
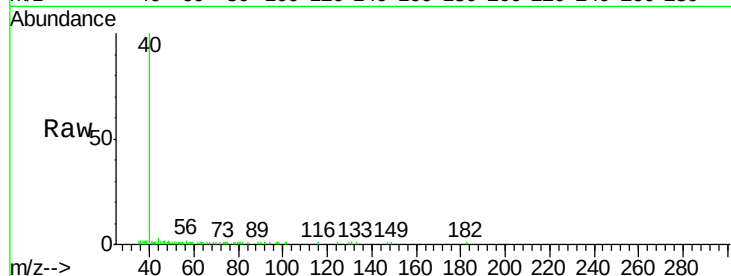
RE105D2-20190311

Tot Ion: 75 Resp: 106

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#55

1,1,2-Trichloroethane

Concen: 0.935 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Tgt Ion: 97 Resp: 2448

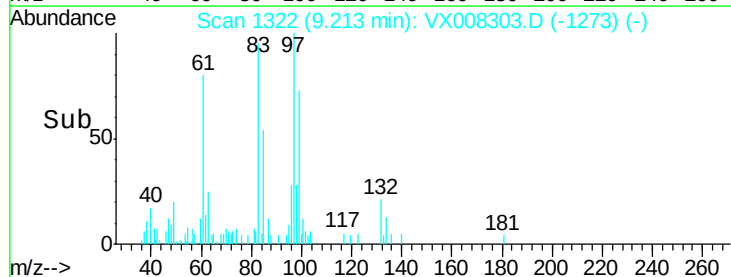
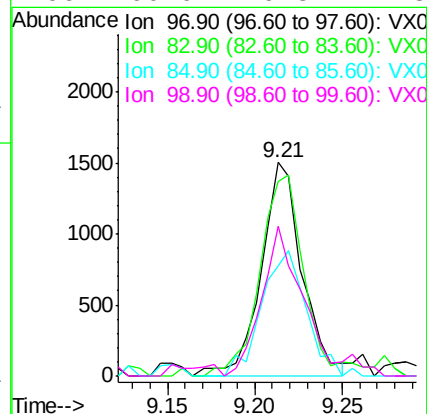
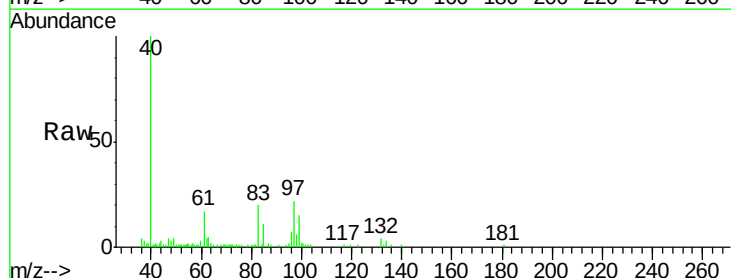
Ion Ratio Lower Upper

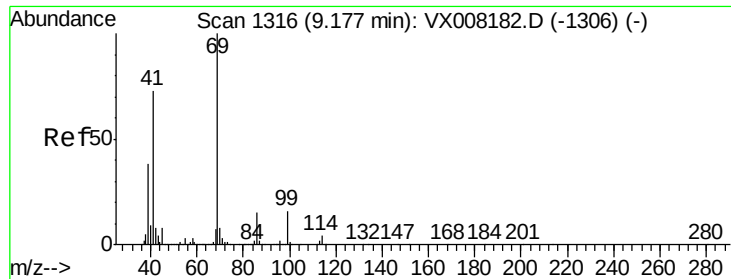
97 100

83 90.9 69.1 103.7

85 51.6 44.3 66.5

99 66.6 49.8 74.8





#56

Ethyl methacrylate

Concen: 0.558 ug/l

RT: 9.18 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

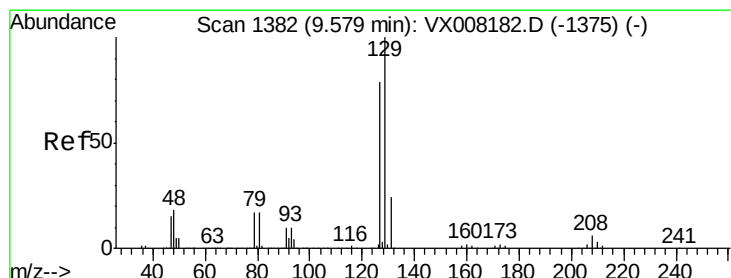
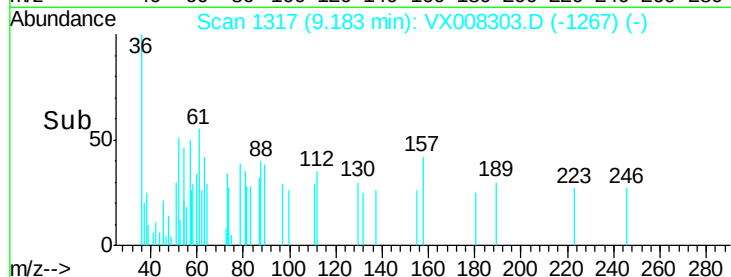
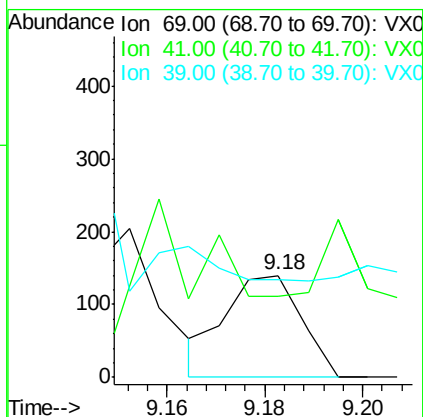
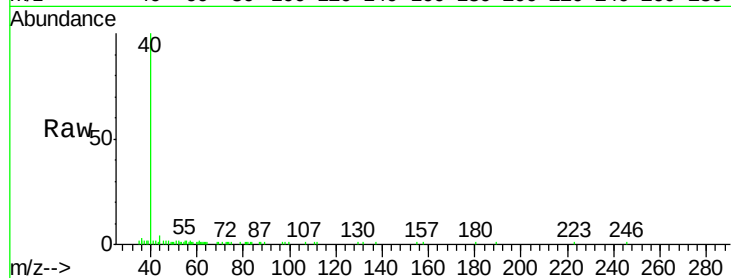
Tot Ion: 69 Resp: 149

Ion Ratio Lower Upper

69 100

41 38.3 54.2 81.4#

39 0.0 25.0 37.4#



#60

Dibromochloromethane

Concen: 2.509 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008303.D

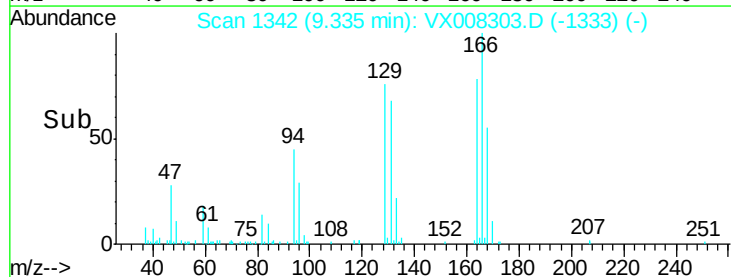
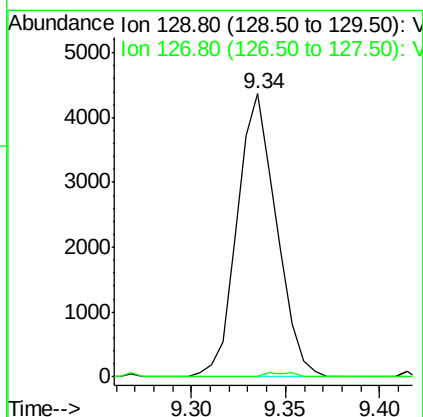
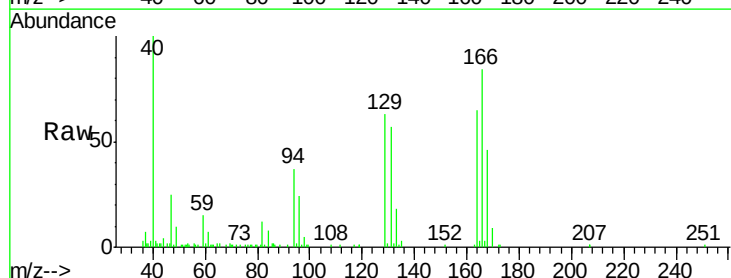
Acq: 21 Mar 2019 20:22

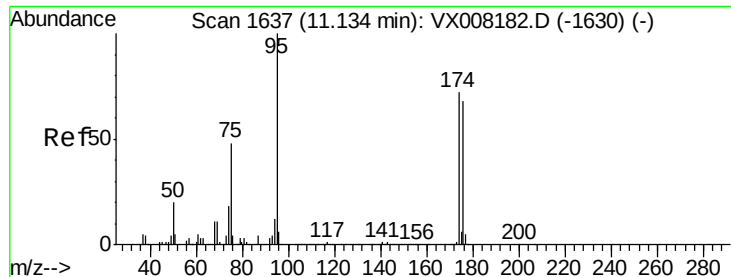
Tgt Ion:129 Resp: 6309

Ion Ratio Lower Upper

129 100

127 1.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 51.205 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

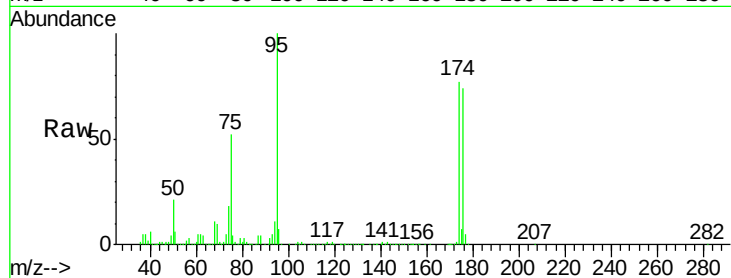
Tot Ion: 95 Resp: 141767

Ion Ratio Lower Upper

95 100

174 85.2 0.0 182.8

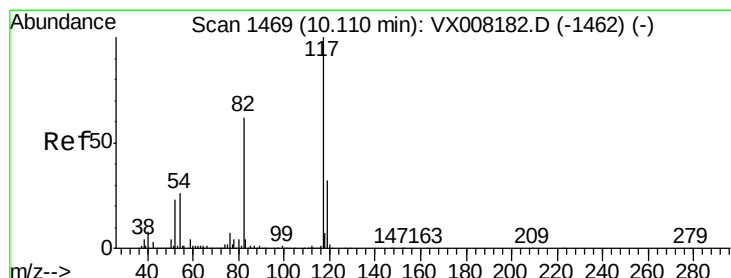
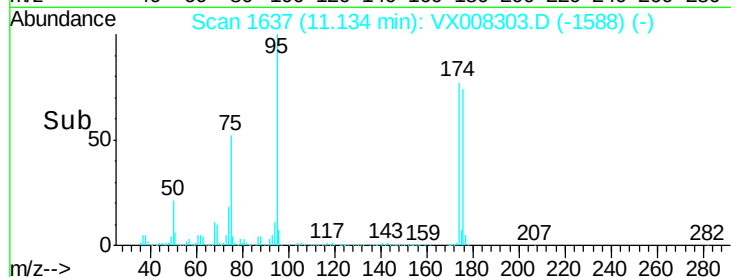
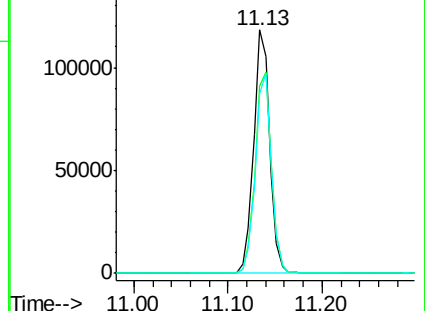
176 82.6 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008182.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008182.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008182.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

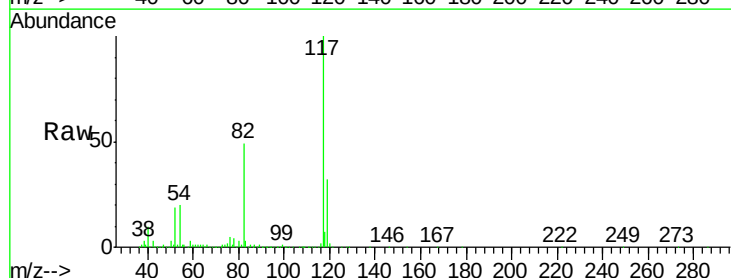
Tgt Ion: 117 Resp: 304641

Ion Ratio Lower Upper

117 100

82 49.1 44.3 66.5

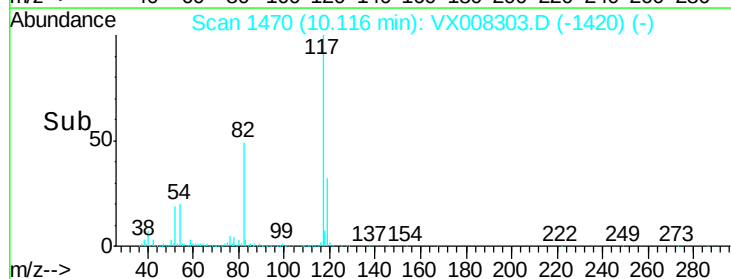
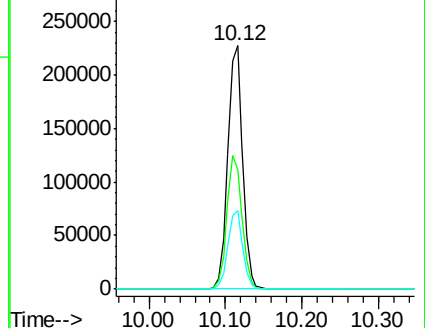
119 32.0 25.3 37.9

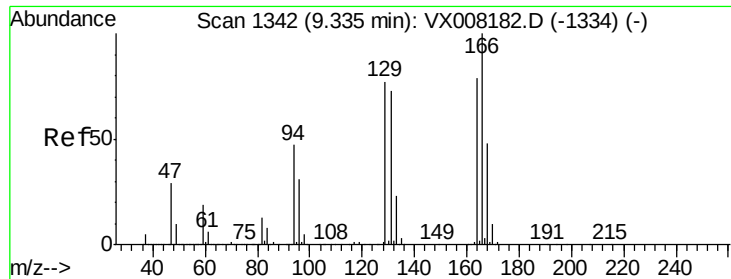


Abundance Ion 116.90 (116.60 to 117.60): VX008182.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008182.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008182.D (-1462) (-)





#64

Tetrachloroethene

Concen: 2.476 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

Tot Ion:164 Resp: 6804

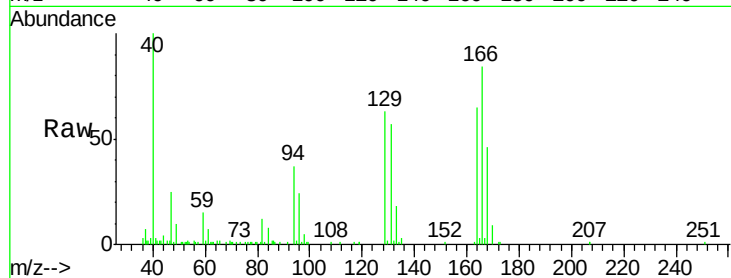
Ion Ratio Lower Upper

164 100

166 128.8 103.4 155.0

129 97.6 72.2 108.4

131 87.5 69.4 104.2

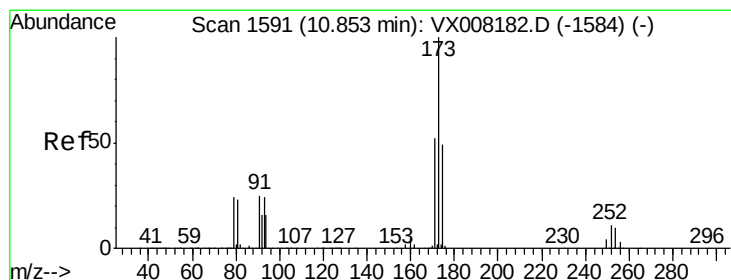
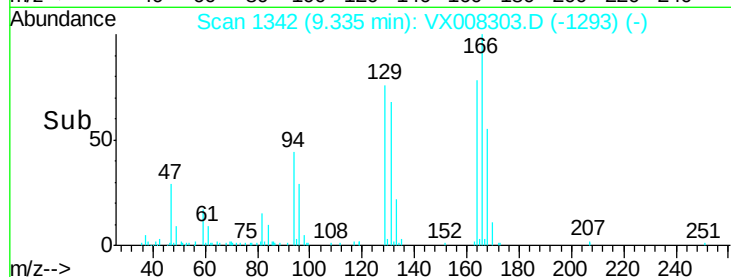
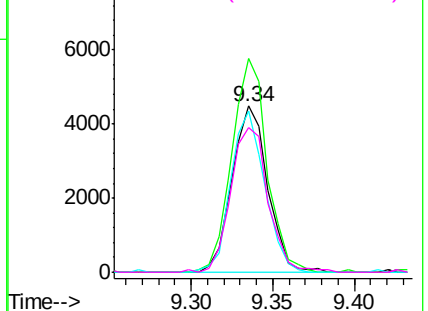


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 2.222 ug/l

RT: 10.58 min Scan# 1547

Delta R.T. -0.27 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

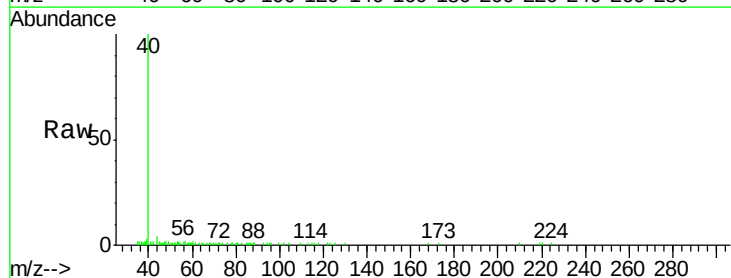
Tgt Ion:173 Resp: 47

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

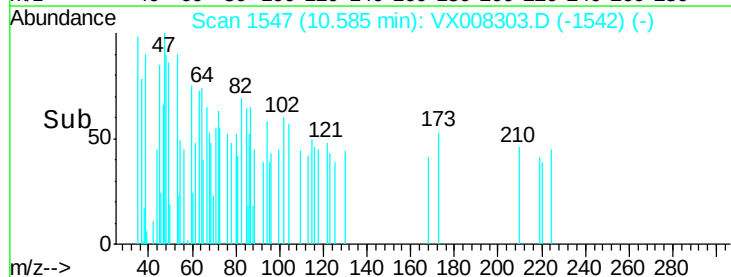
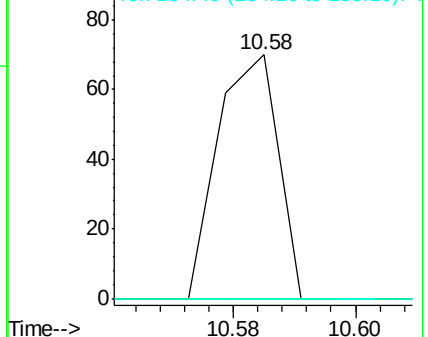
254 0.0 0.1 0.1#

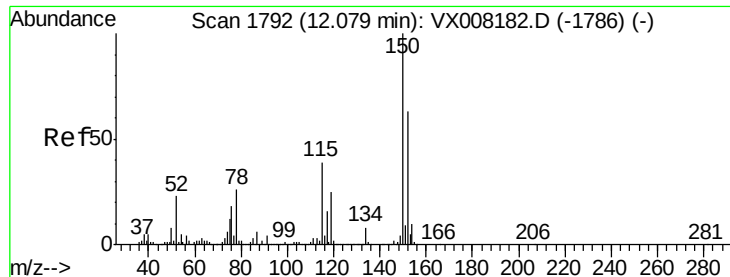


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



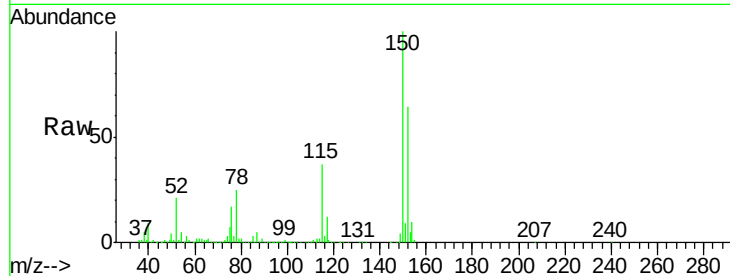


#72

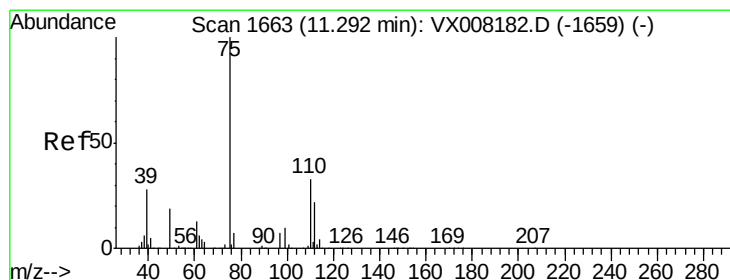
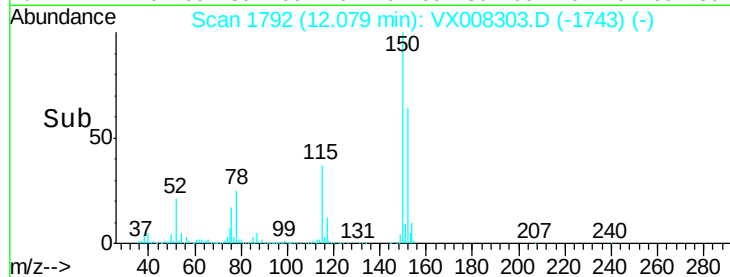
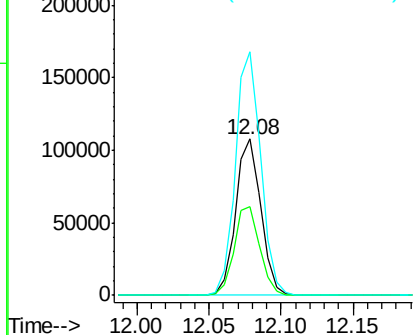
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008303.D
Acq: 21 Mar 2019 20:22

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20190311

Tot Ion:152 Resp: 131906
Ion Ratio Lower Upper
152 100
115 58.3 38.6 115.7
150 156.6 0.0 348.4



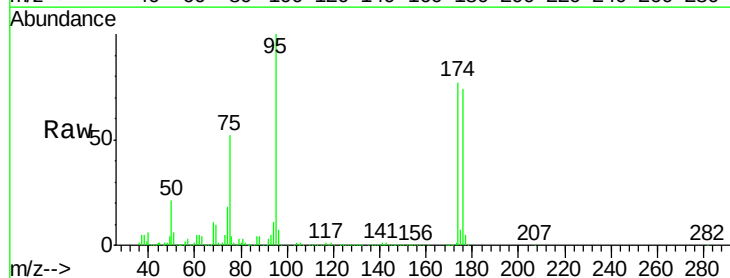
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



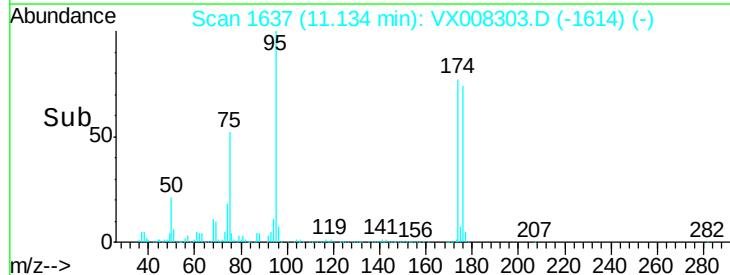
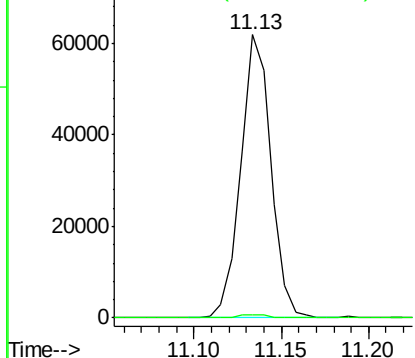
#76

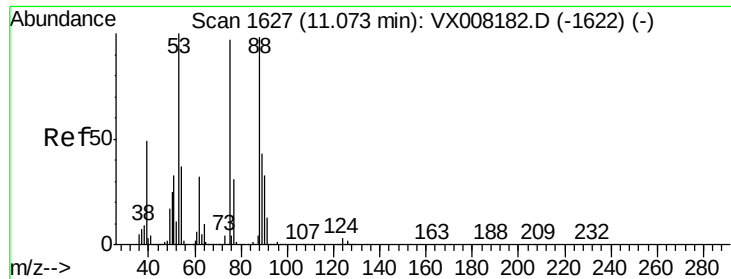
1,2,3-Trichloropropane
Concen: 20.054 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008303.D
Acq: 21 Mar 2019 20:22

Tgt Ion: 75 Resp: 74399
Ion Ratio Lower Upper
75 100
77 1.3 18.9 56.7#



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: 51.090 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008303.D

Acq: 21 Mar 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20190311

Tot Ion: 75 Resp: 74399

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.1 36.3 54.5#

