

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032720\
 Data File : VX015386.D
 Acq On : 27 Mar 2020 16:59
 Operator : JC/SP
 Sample : L1997-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D2-20200316

Quant Time: Mar 30 01:45:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1123549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1869334	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1773968	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	947539	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	762165	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.47	113	572970	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
50) Toluene-d8	8.70	98	2238383	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.12	95	973994	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	

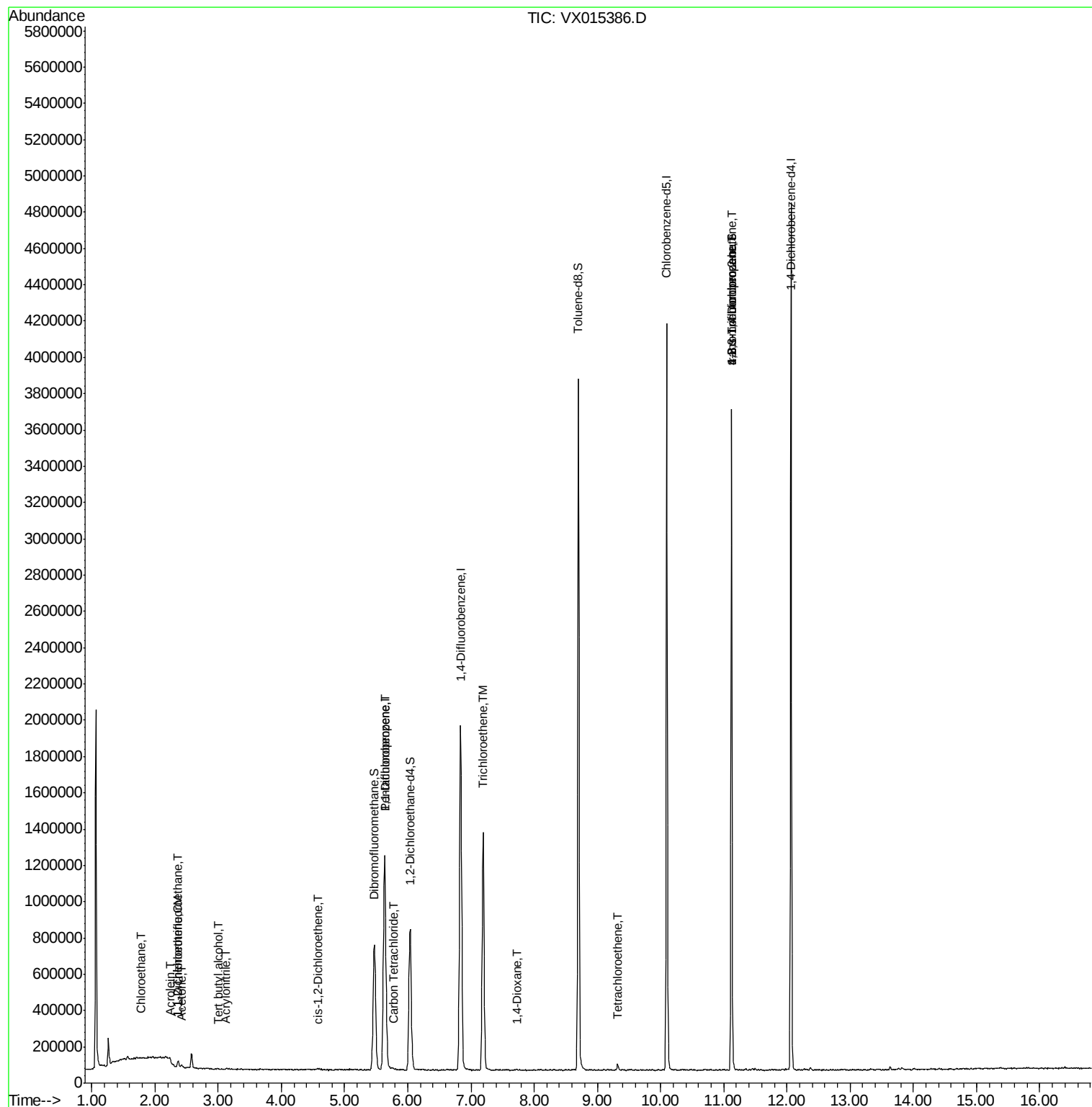
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	129	Below Cal	#	40
6) Chloroethane	1.77	64	1892	0.264	ug/l #	72
9) 1,1,2-Trichlorotrifluoroet	2.37	101	12661	1.251	ug/l	92
11) Tert butyl alcohol	3.01	59	858	0.226	ug/l #	73
12) 1,1-Dichloroethene	2.36	96	4365	0.412	ug/l #	51
13) Acrolein	2.25	56	433	0.200	ug/l #	14
15) Acrylonitrile	3.12	53	1728	0.239	ug/l #	73
16) Acetone	2.42	43	16430	2.413	ug/l	97
27) cis-1,2-Dichloroethene	4.58	96	4821	0.354	ug/l	98
36) 1,1-Dichloropropene	5.63	75	89240	5.181	ug/l #	51
38) Carbon Tetrachloride	5.77	117	5082	0.272	ug/l #	83
44) Trichloroethene	7.19	130	498804	36.251	ug/l	99
49) 1,4-Dioxane	7.73	88	5452	15.455	ug/l #	61
64) Tetrachloroethene	9.32	164	8549	0.639	ug/l #	82
76) 1,2,3-Trichloropropane	11.12	75	501564	25.741	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	501564	61.763	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

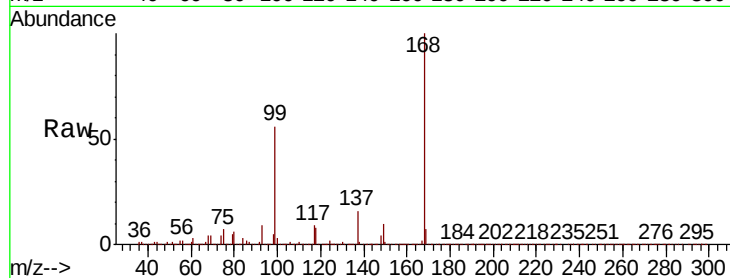
RE109D2-20200316

Tot Ion:168 Resp: 1123549

Ion Ratio Lower Upper

168 100

99 56.0 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

200000

100000

0

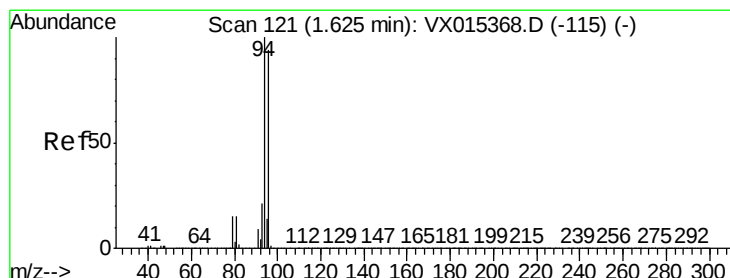
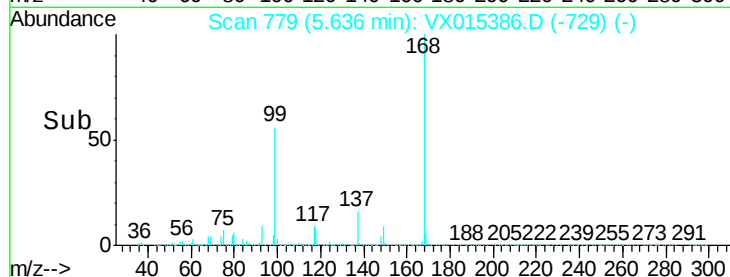
Time-->

5.50

5.60

5.70

5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015386.D

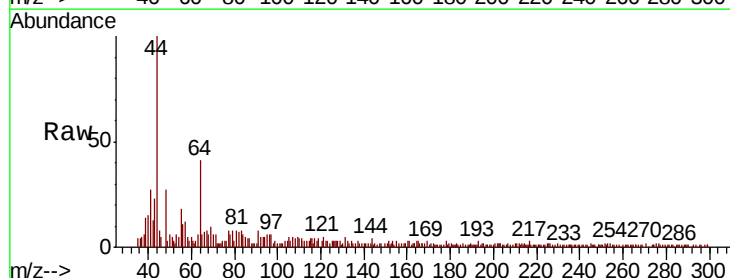
Acq: 27 Mar 2020 16:59

Tgt Ion: 94 Resp: 129

Ion Ratio Lower Upper

94 100

96 35.5 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

400

200

0

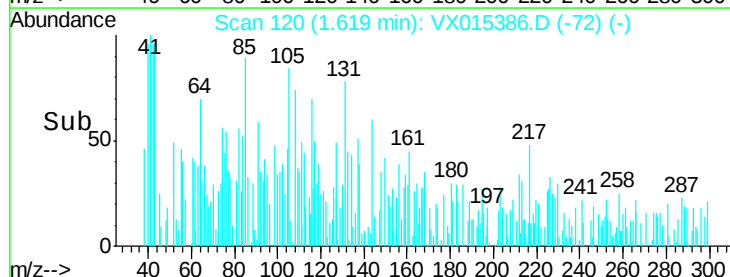
Time-->

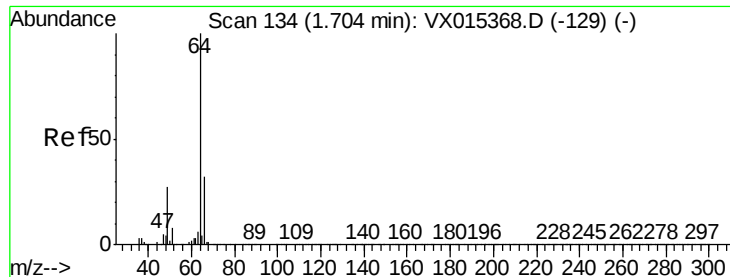
1.61

1.62

1.62

1.63





#6

Chloroethane

Concen: 0.264 ug/l

RT: 1.77 min Scan# 145

Delta R.T. 0.07 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

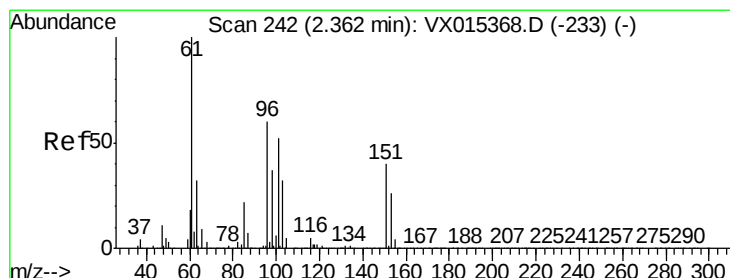
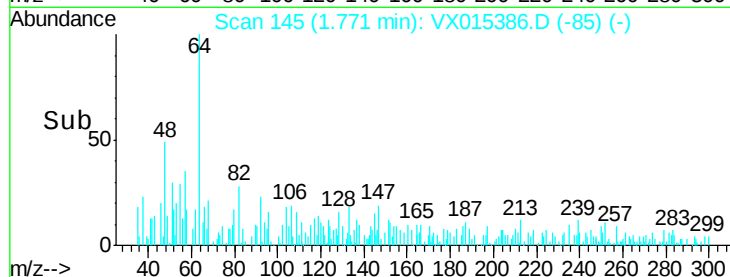
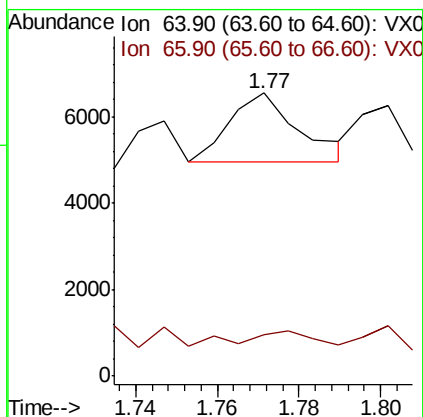
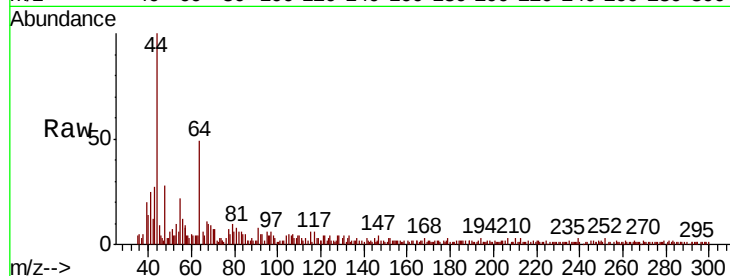
RE109D2-20200316

Tot Ion: 64 Resp: 1892

Ion Ratio Lower Upper

64 100

66 16.3 25.4 38.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.251 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

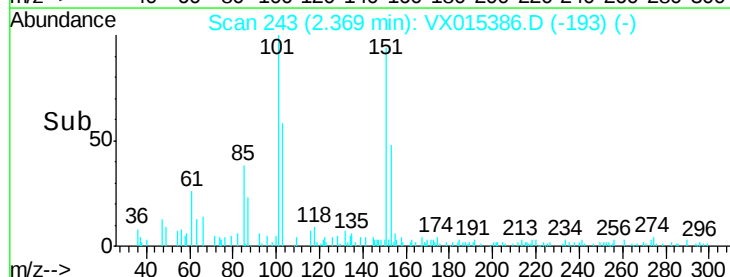
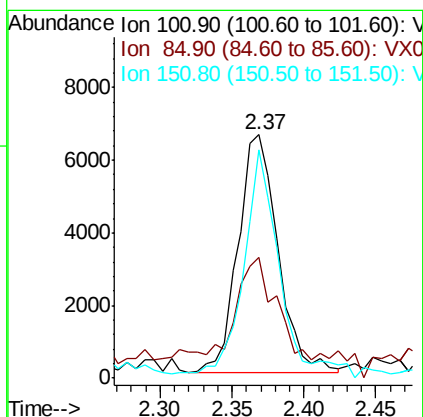
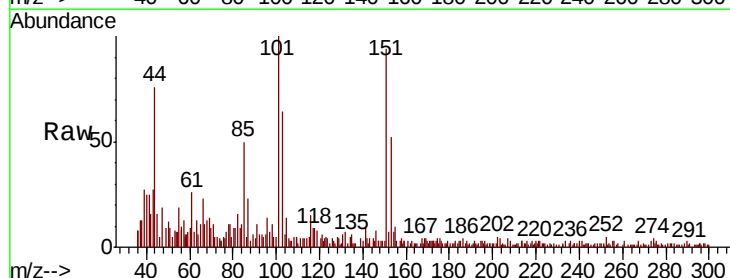
Tgt Ion: 101 Resp: 12661

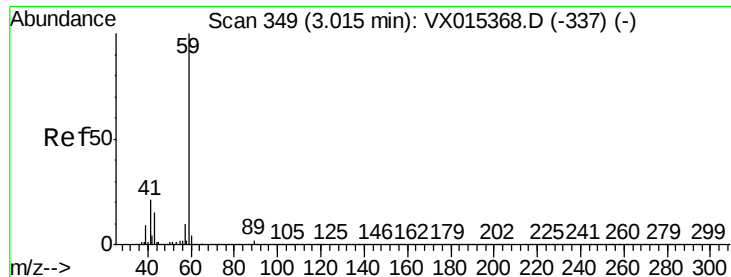
Ion Ratio Lower Upper

101 100

85 40.1 35.0 52.4

151 87.8 64.1 96.1



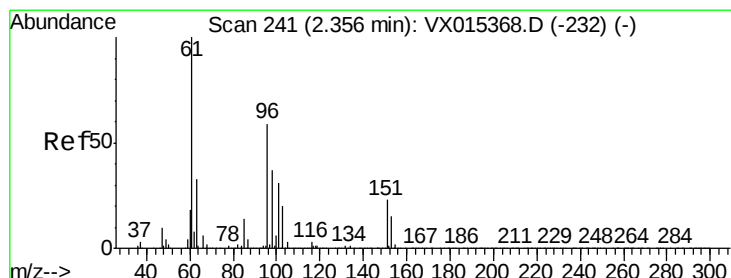
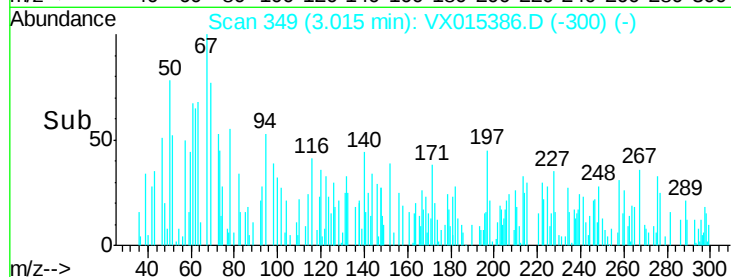
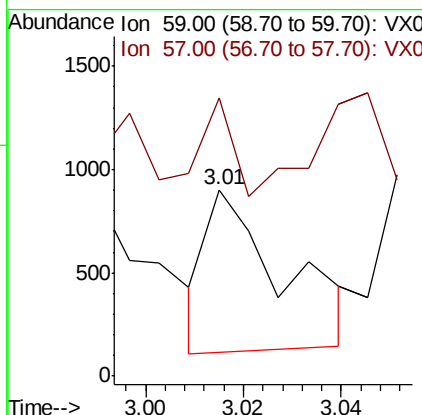
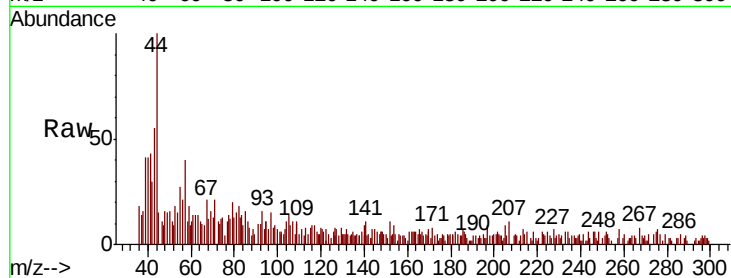


#11

Tert butyl alcohol
 Concen: 0.226 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. 0.00 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D2-20200316

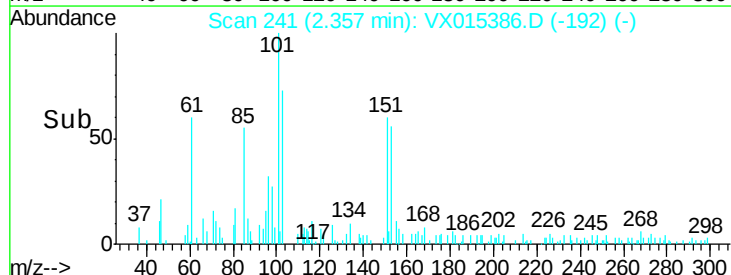
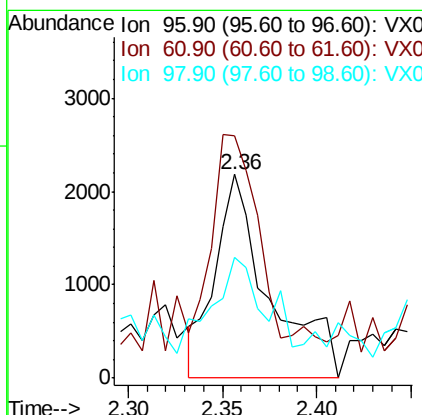
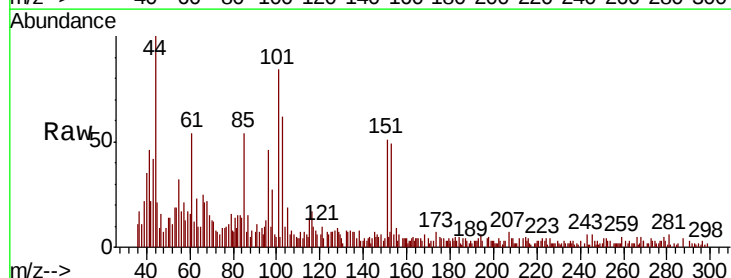
Tot Ion: 59 Resp: 858
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

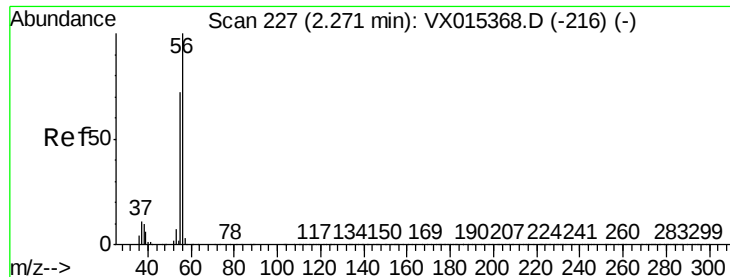


#12

1,1-Dichloroethene
 Concen: 0.412 ug/l
 RT: 2.36 min Scan# 241
 Delta R.T. 0.00 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

Tgt Ion: 96 Resp: 4365
 Ion Ratio Lower Upper
 96 100
 61 97.8 135.7 203.5#
 98 31.8 50.6 75.8#

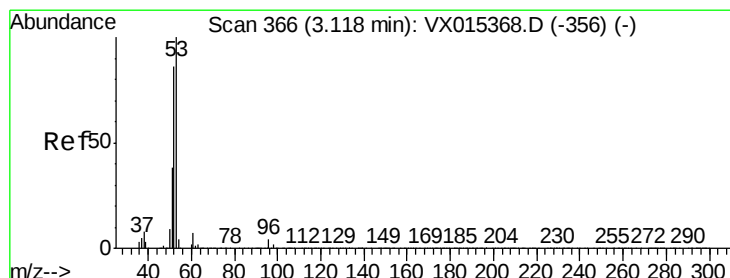
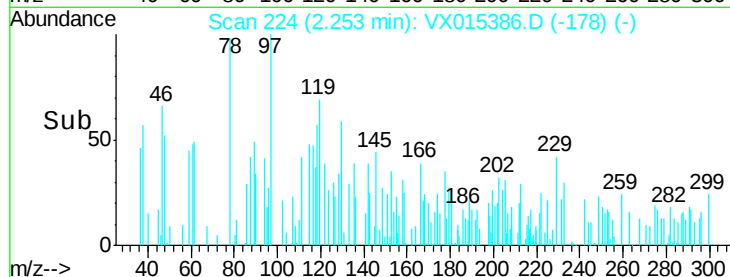
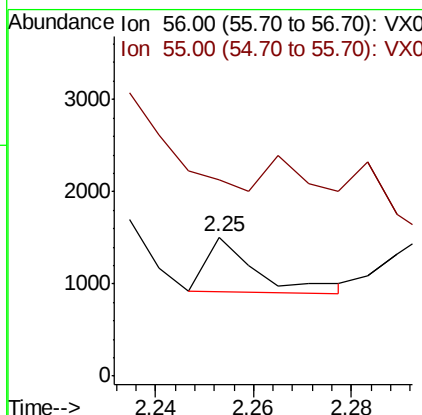
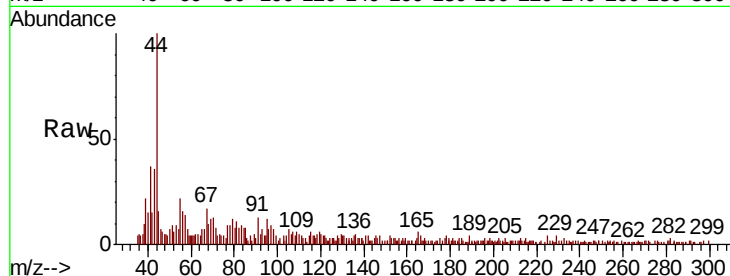




#13
Acrolein
Concen: 0.200 ug/l
RT: 2.25 min Scan# 224
Delta R.T. -0.02 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

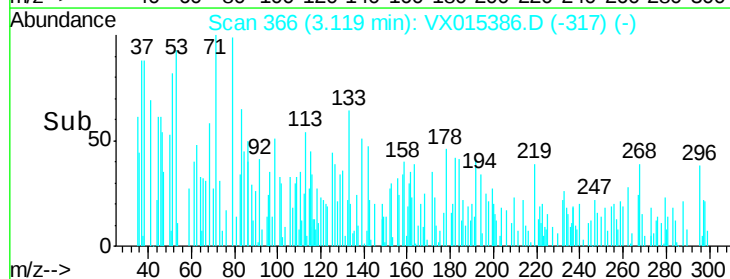
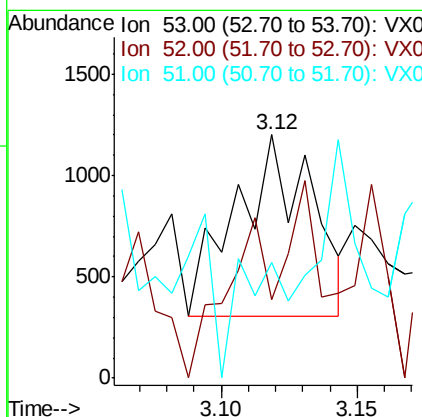
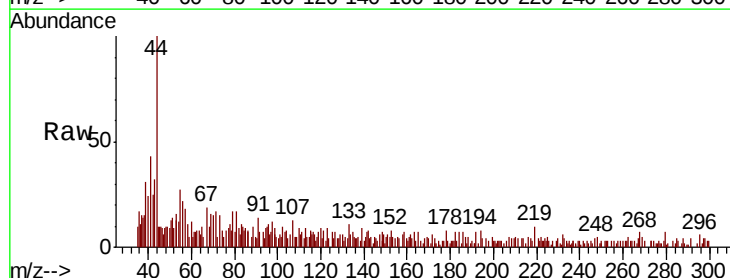
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20200316

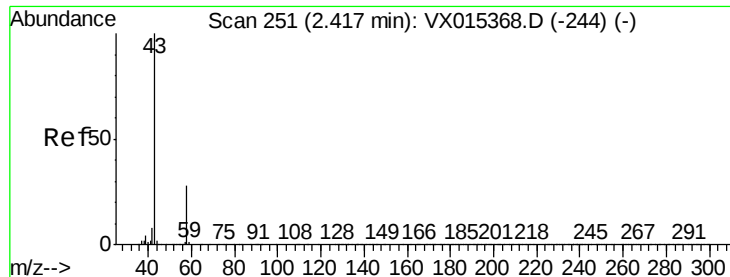
Tot Ion: 56 Resp: 433
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#15
Acrylonitrile
Concen: 0.239 ug/l
RT: 3.12 min Scan# 366
Delta R.T. 0.00 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

Tgt Ion: 53 Resp: 1728
Ion Ratio Lower Upper
53 100
52 51.7 66.8 100.2#
51 41.3 29.5 44.3





#16

Acetone

Concen: 2.413 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

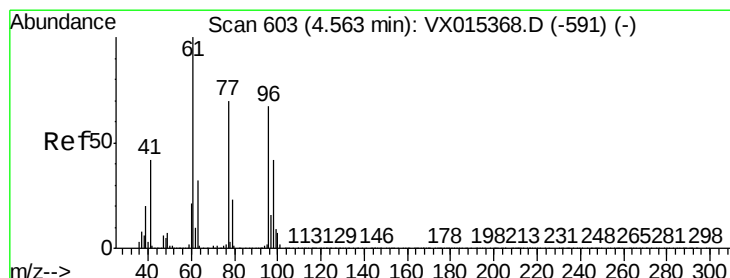
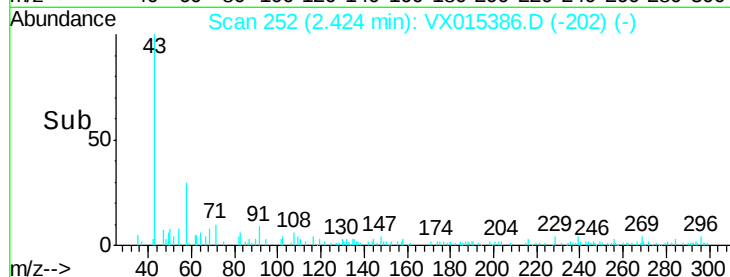
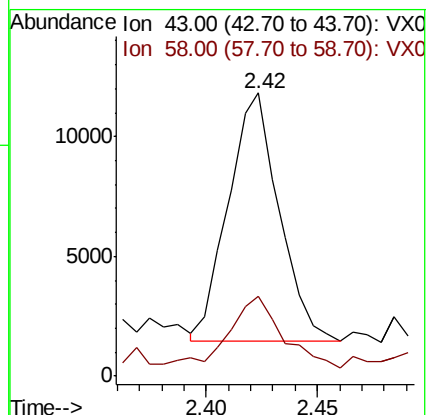
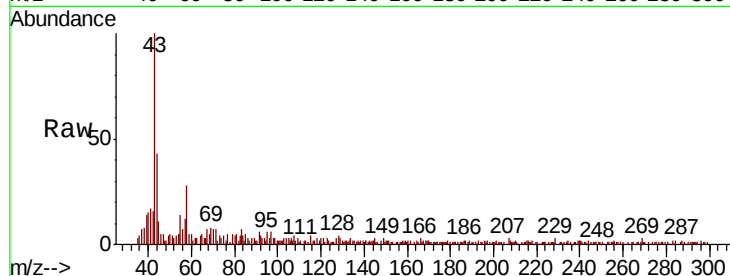
RE109D2-20200316

Tot Ion: 43 Resp: 16430

Ion Ratio Lower Upper

43 100

58 29.0 22.1 33.1



#27

cis-1,2-Dichloroethene

Concen: 0.354 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

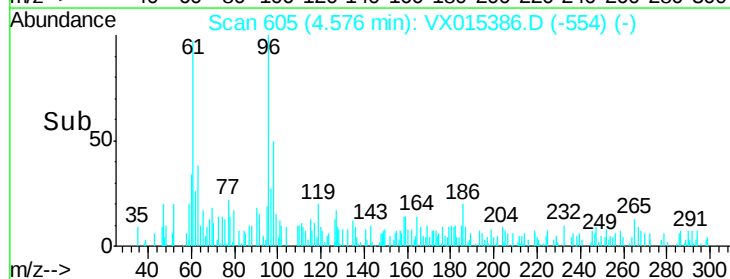
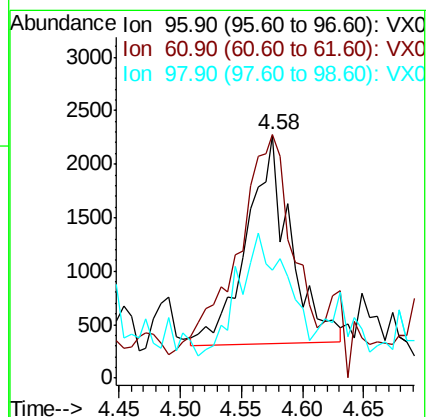
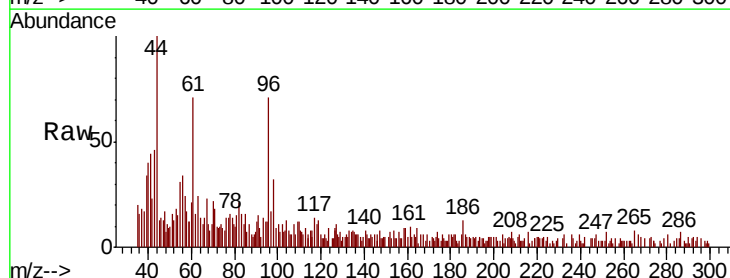
Tgt Ion: 96 Resp: 4821

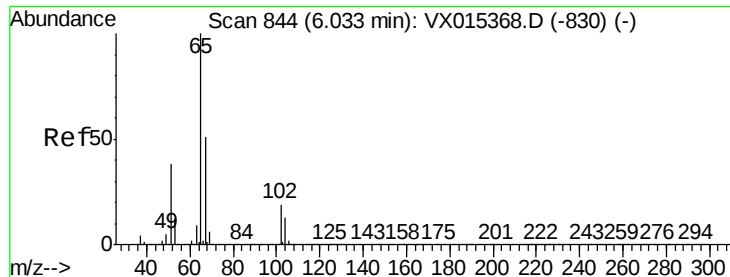
Ion Ratio Lower Upper

96 100

61 157.0 0.0 308.4

98 65.0 0.0 129.2





#33

1,2-Dichloroethane-d4

Concen: 48.097 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

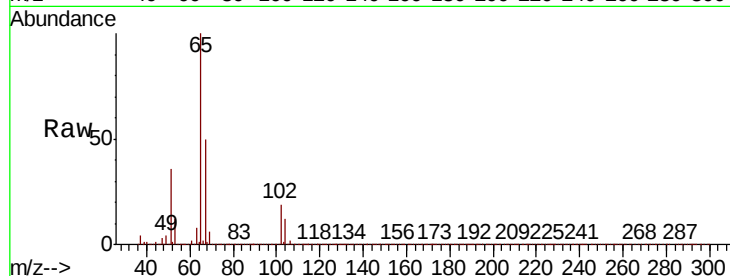
RE109D2-20200316

Tot Ion: 65 Resp: 762165

Ion Ratio Lower Upper

65 100

67 50.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

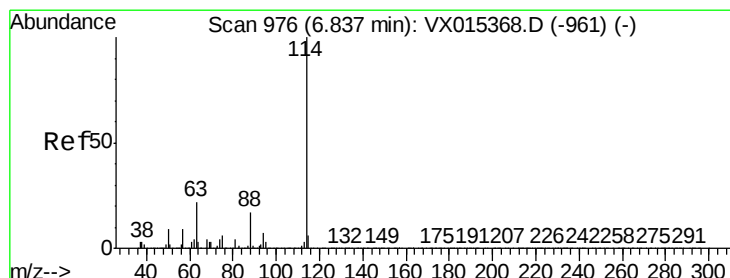
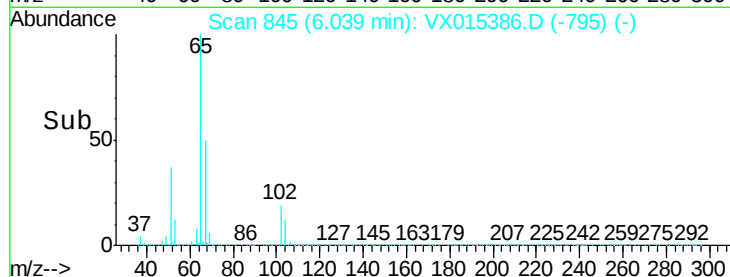
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

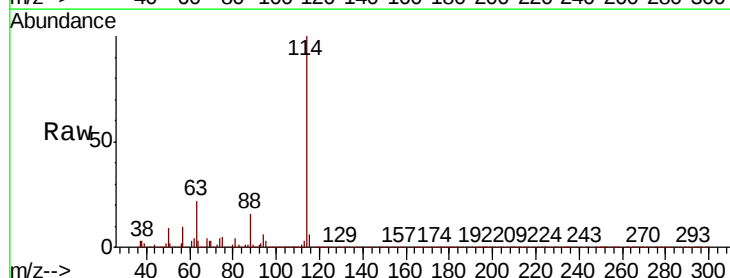
Tgt Ion: 114 Resp: 1869334

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.2

88 15.8 0.0 33.8



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

1000000

800000

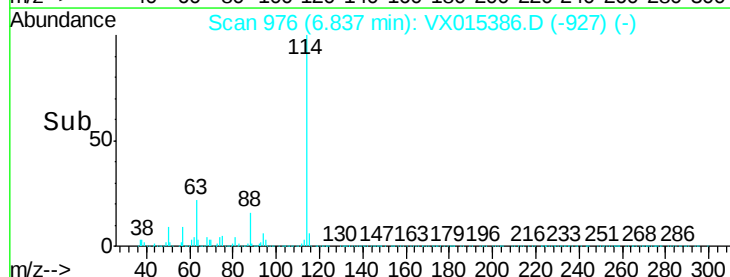
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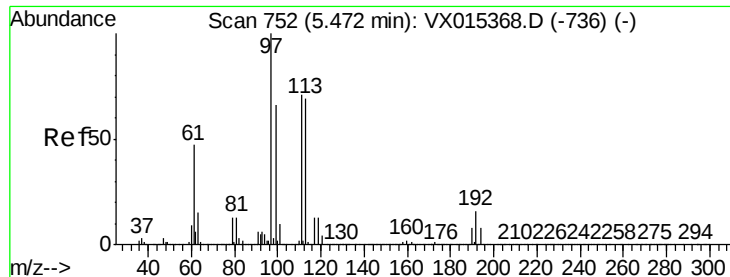
400000

200000

0

Time-->

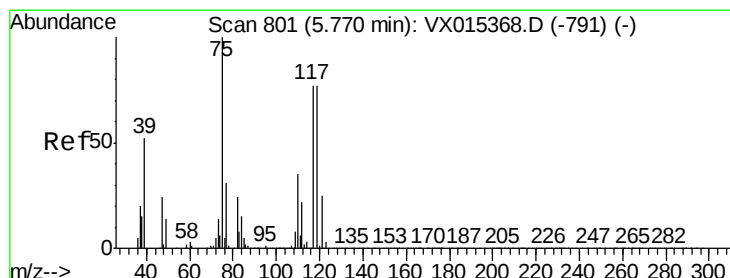
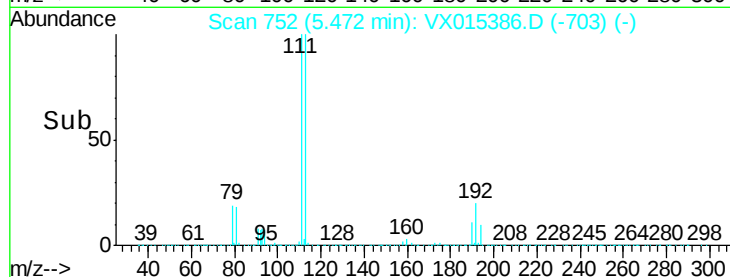
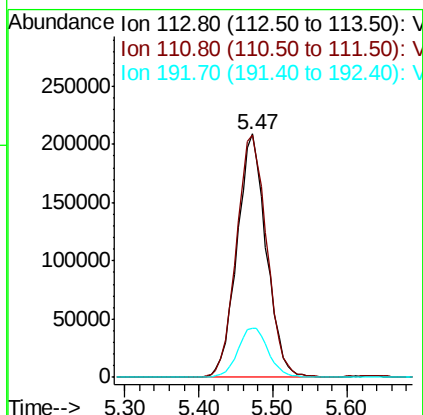
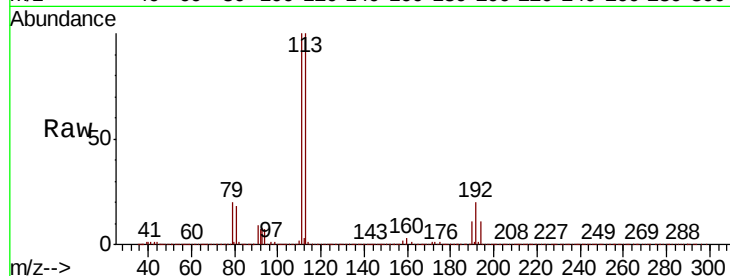




#35
 Dibromofluoromethane
 Concen: 47.950 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

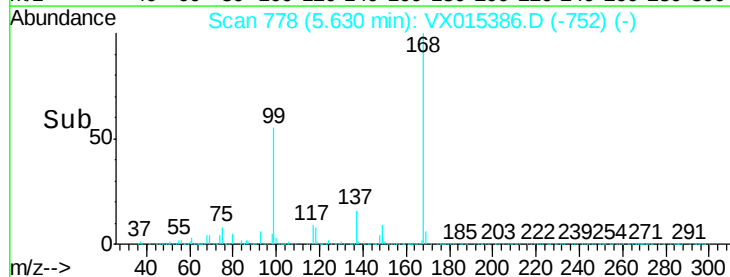
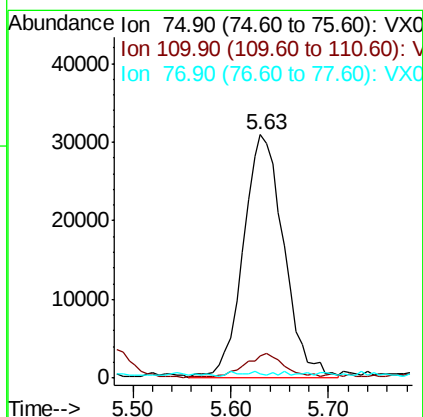
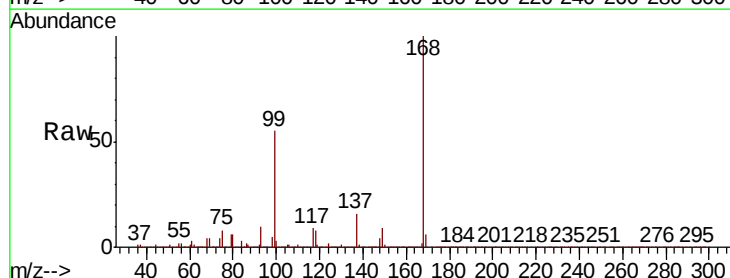
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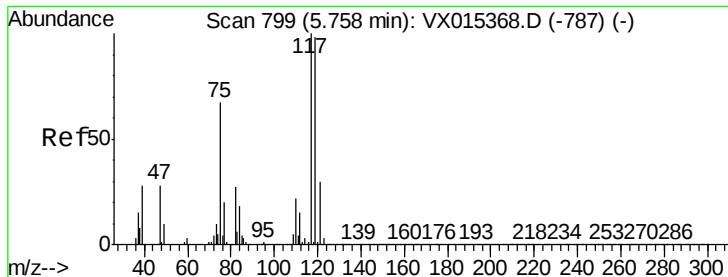
Tot Ion:113 Resp: 572970
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.5 122.3
 192 21.5 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 5.181 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

Tgt Ion: 75 Resp: 89240
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.1 51.3#
 77 0.1 24.6 36.8#

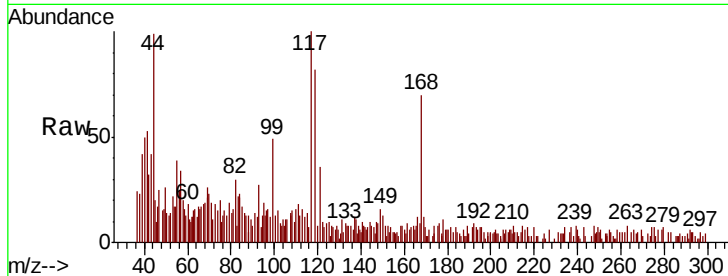




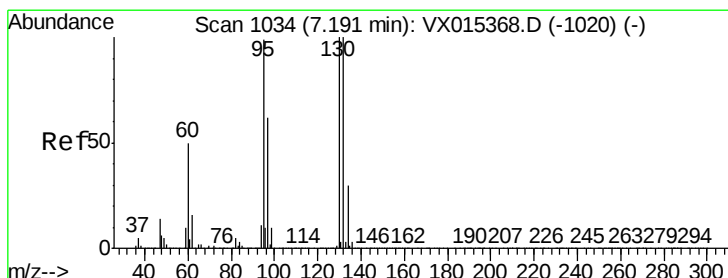
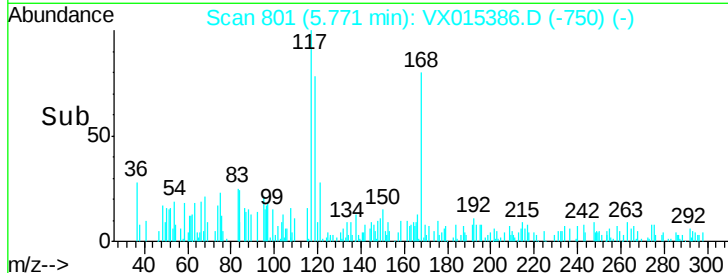
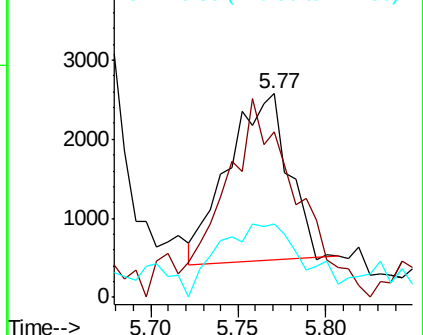
#38
Carbon Tetrachloride
Concen: 0.272 ug/l
RT: 5.77 min Scan# 801
Delta R.T. 0.01 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20200316

Tot Ion:117 Resp: 5082
Ion Ratio Lower Upper
117 100
119 83.8 78.0 117.0
121 45.4 23.8 35.8#

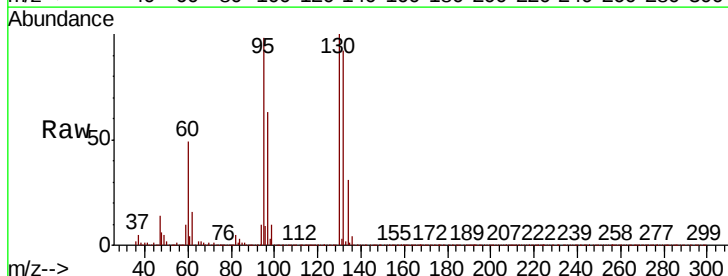


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

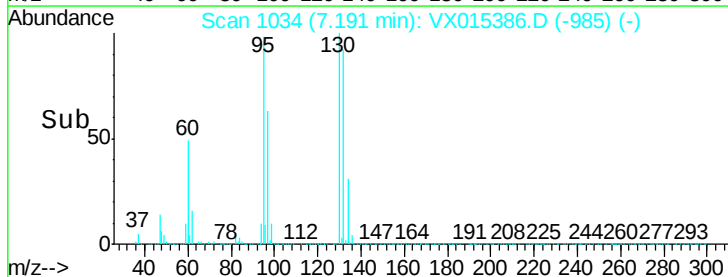
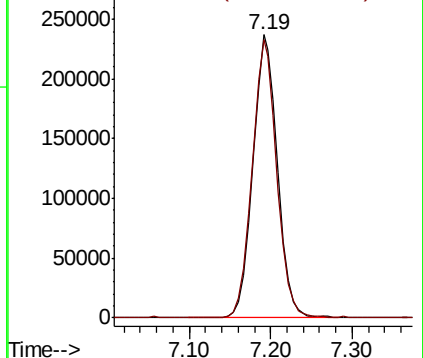


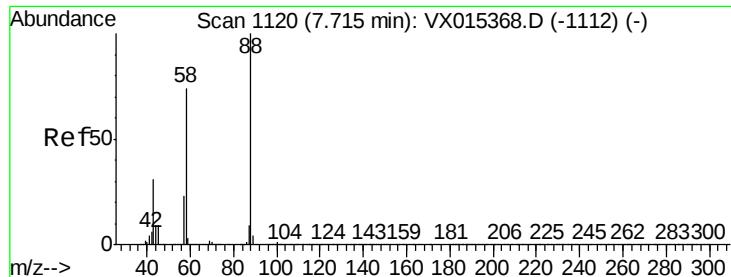
#44
Trichloroethene
Concen: 36.251 ug/l
RT: 7.19 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

Tgt Ion:130 Resp: 498804
Ion Ratio Lower Upper
130 100
95 98.0 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

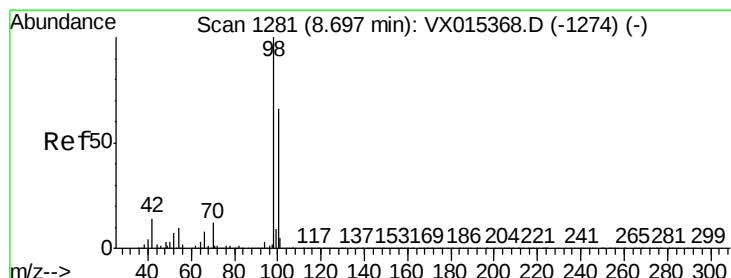
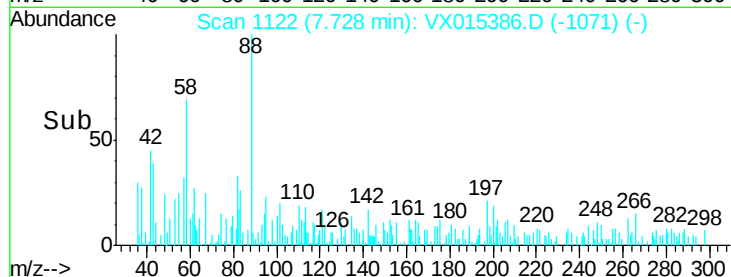
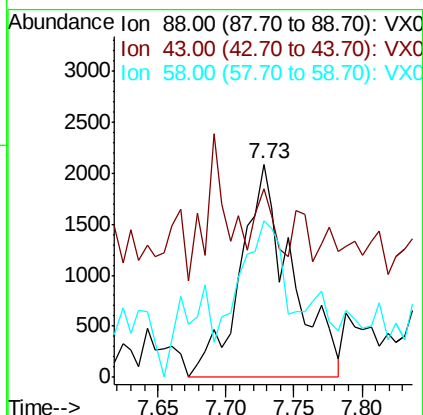
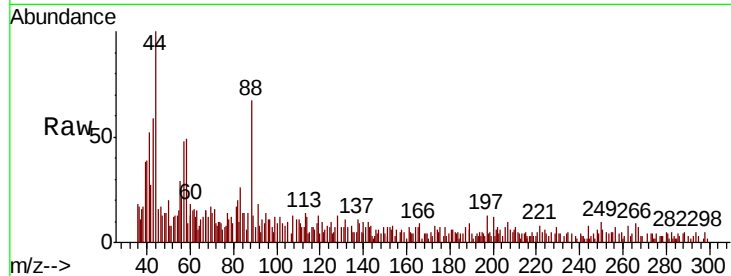




#49
1,4-Dioxane
Concen: 15.455 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. 0.01 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

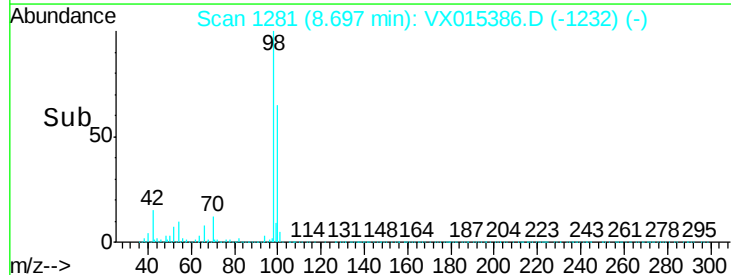
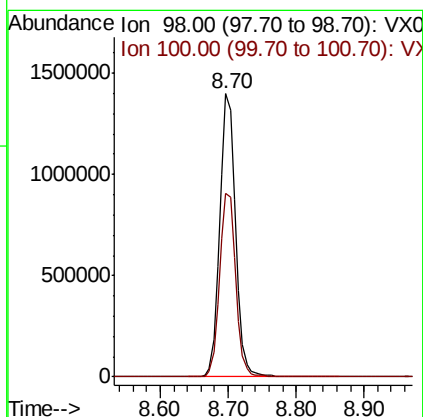
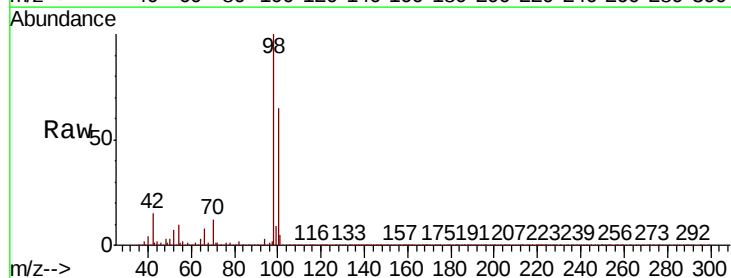
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20200316

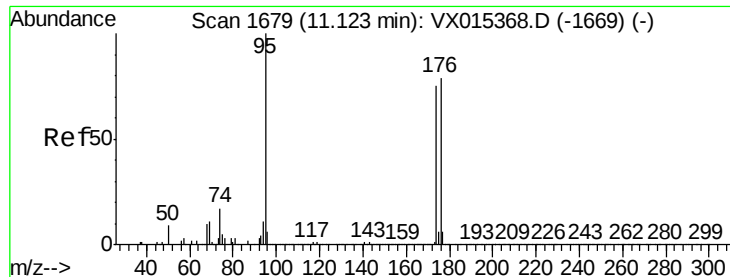
Tot Ion: 88 Resp: 5452
Ion Ratio Lower Upper
88 100
43 10.5 30.1 45.1#
58 45.3 60.6 90.8#



#50
Toluene-d8
Concen: 50.879 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015386.D
Acq: 27 Mar 2020 16:59

Tgt Ion: 98 Resp: 2238383
Ion Ratio Lower Upper
98 100
100 66.5 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 54.476 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20200316

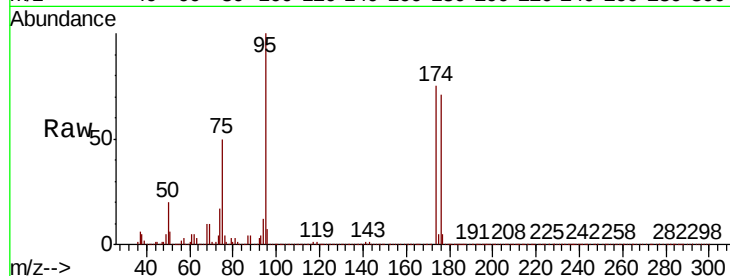
Tot Ion: 95 Resp: 973994

Ion Ratio Lower Upper

95 100

174 78.9 0.0 158.6

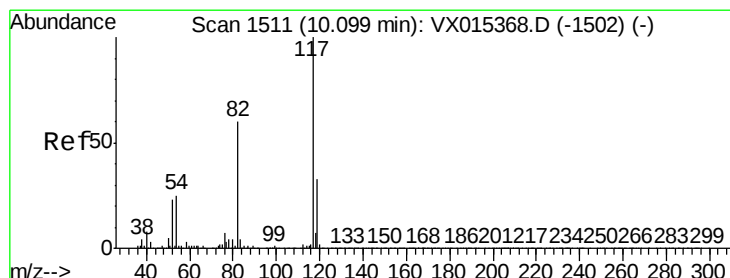
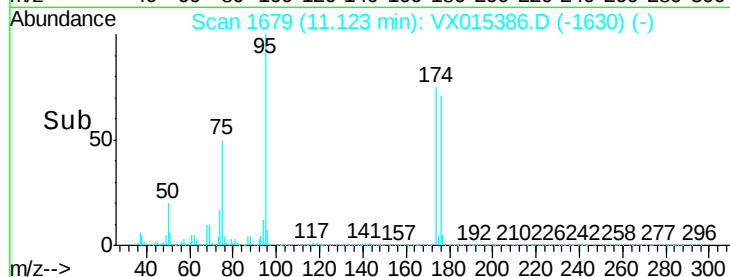
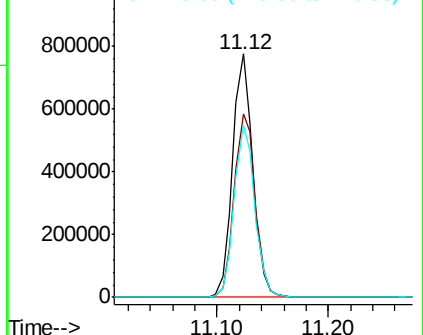
176 72.8 0.0 159.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

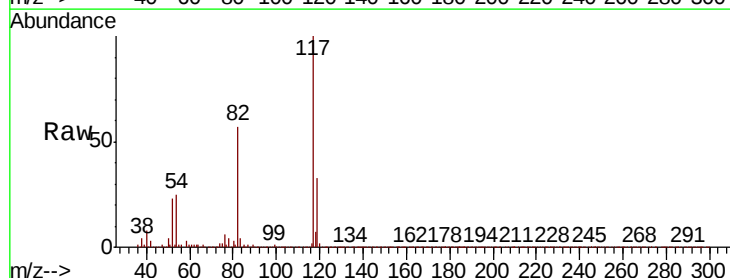
Tgt Ion: 117 Resp: 1773968

Ion Ratio Lower Upper

117 100

82 57.0 47.8 71.8

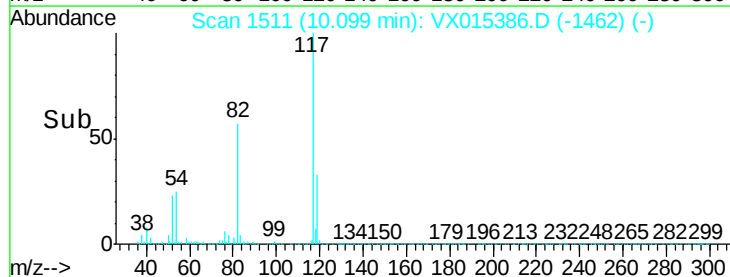
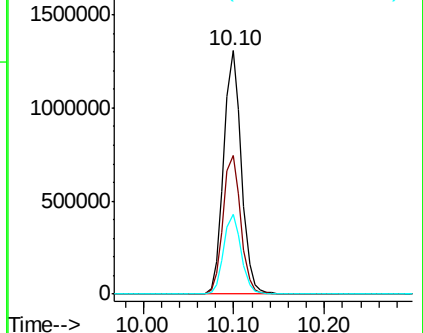
119 32.9 26.8 40.2

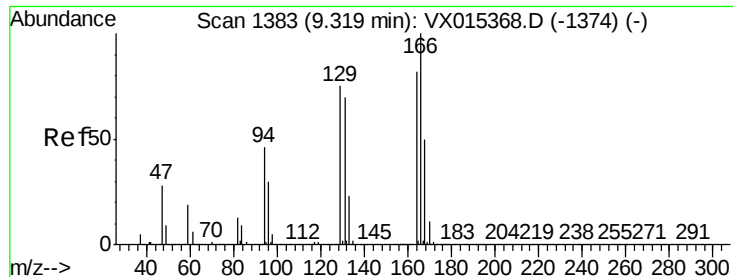


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.639 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. 0.01 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20200316

Tot Ion:164 Resp: 8549

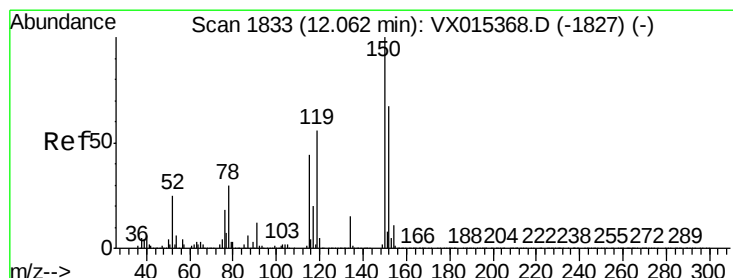
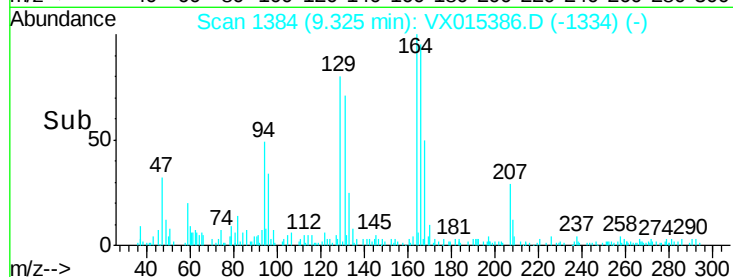
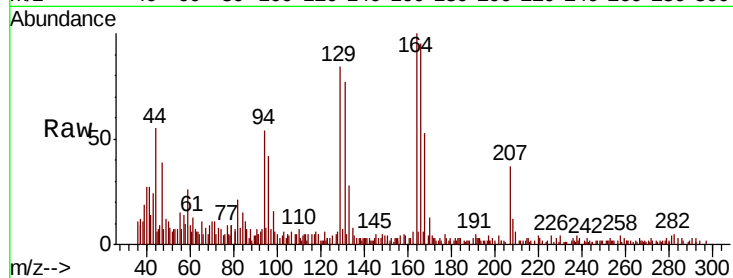
Ion Ratio Lower Upper

164 100

166 92.7 97.8 146.6#

129 78.9 73.0 109.4

131 74.2 68.6 103.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015386.D

Acq: 27 Mar 2020 16:59

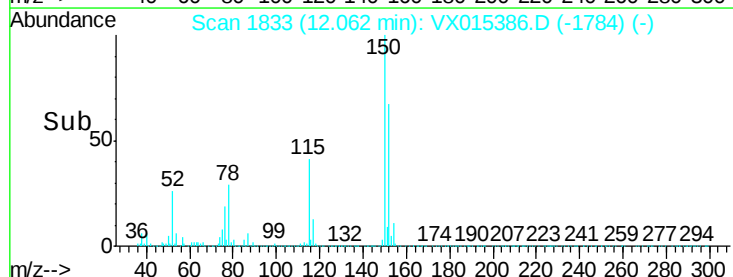
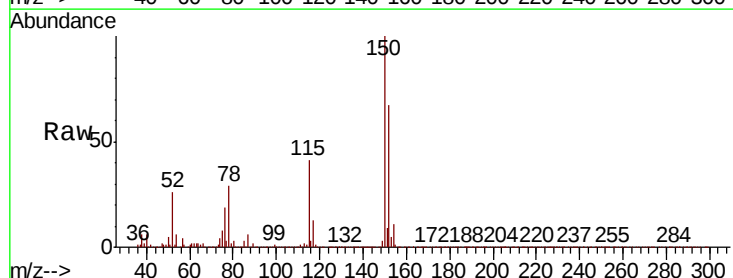
Tgt Ion:152 Resp: 947539

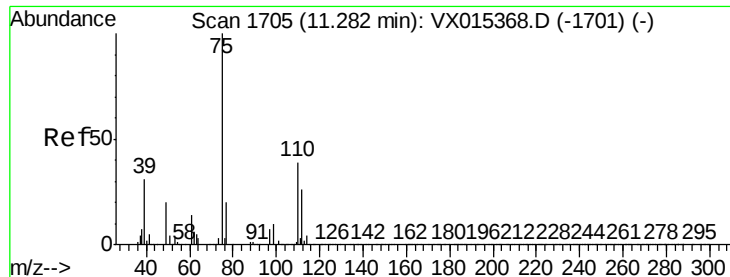
Ion Ratio Lower Upper

152 100

115 59.4 39.0 116.9

150 152.3 0.0 340.8

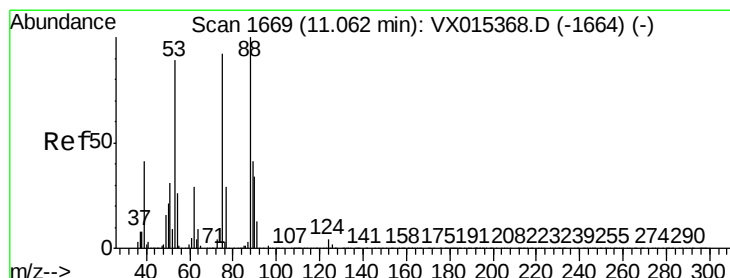
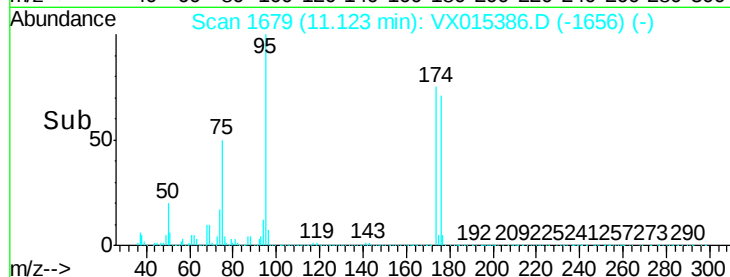
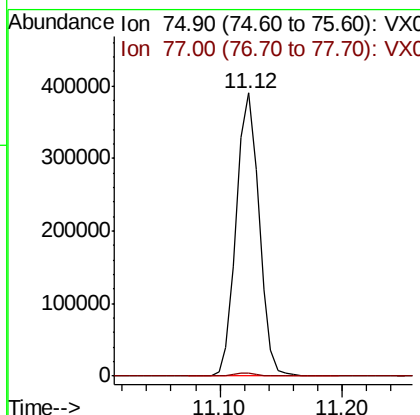
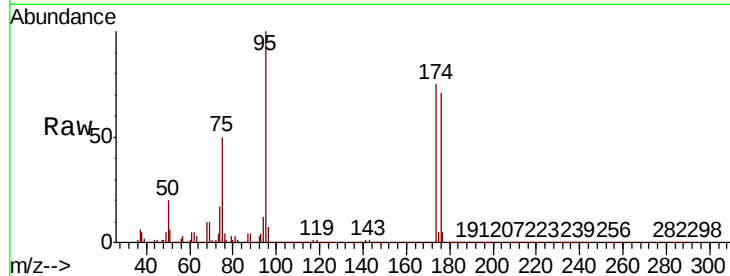




#76
 1,2,3-Trichloropropane
 Concen: 25.741 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D2-20200316

Tot Ion: 75 Resp: 501564
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.763 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015386.D
 Acq: 27 Mar 2020 16:59

Tgt Ion: 75 Resp: 501564
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.1 120.1#
 89 0.0 36.1 54.1#

