

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032720\
 Data File : VX015394.D
 Acq On : 27 Mar 2020 20:00
 Operator : JC/SP
 Sample : L1997-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20200316

Quant Time: Mar 30 01:46:55 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	5.63	168	1125475	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1847812	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1780010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	928460	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	762277	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
35) Dibromofluoromethane	5.47	113	585910	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.70	98	2222483	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.12	95	971663	54.98	ug/l	0.00
Spiked Amount			Recovery	=	109.96%	

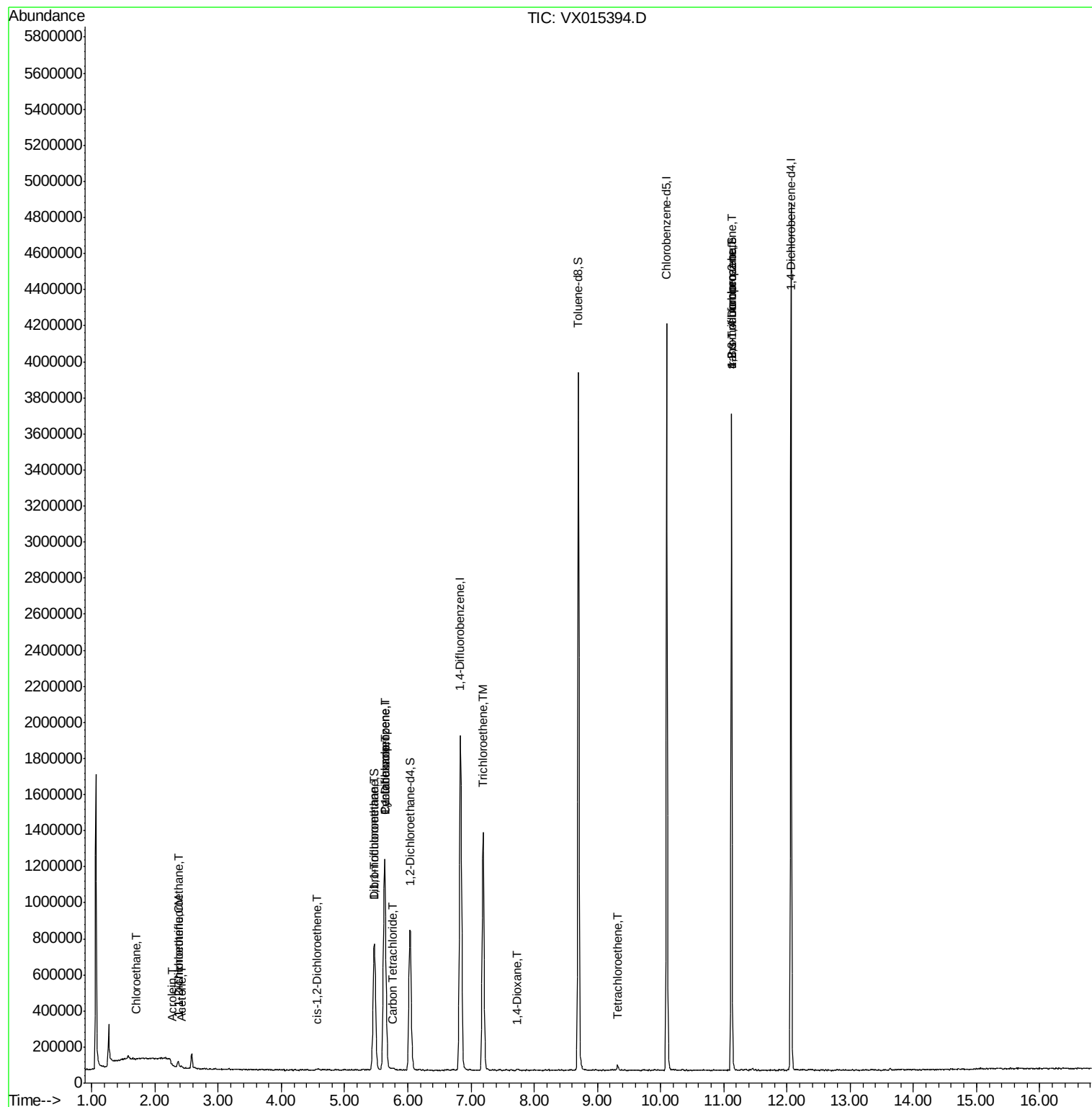
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	495	Below Cal	#	75
6) Chloroethane	1.71	64	2794	0.389	ug/l #	61
9) 1,1,2-Trichlorotrifluoroet	2.37	101	14481	1.429	ug/l	95
12) 1,1-Dichloroethene	2.36	96	2868	0.270	ug/l	90
13) Acrolein	2.28	56	977	0.451	ug/l #	14
16) Acetone	2.42	43	15048	2.207	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	5322	0.390	ug/l	81
31) Cyclohexane	5.63	56	26374	1.312	ug/l #	1
32) 1,1,1-Trichloroethane	5.47	97	5363	0.266	ug/l #	41
36) 1,1-Dichloropropene	5.63	75	88160	5.178	ug/l #	52
38) Carbon Tetrachloride	5.76	117	5432	0.295	ug/l	94
44) Trichloroethene	7.19	130	501142	36.845	ug/l	99
49) 1,4-Dioxane	7.73	88	4137	11.864	ug/l	92
64) Tetrachloroethene	9.32	164	7535	0.561	ug/l	89
76) 1,2,3-Trichloropropane	11.12	75	502138	26.300	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	502138	63.105	ug/l #	10

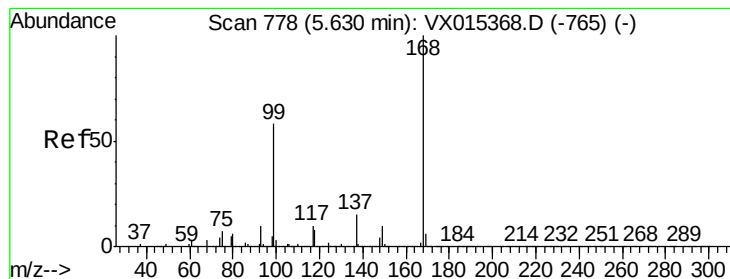
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

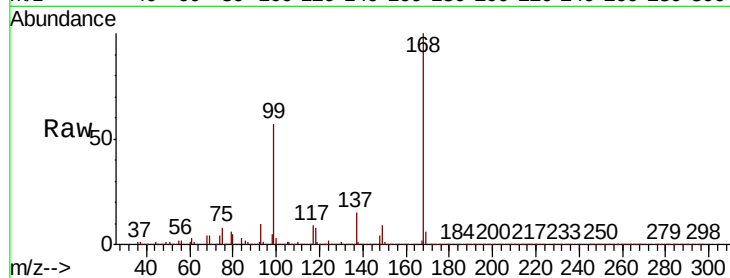
DUP06-20200316

Tot Ion:168 Resp: 1125475

Ion Ratio Lower Upper

168 100

99 57.1 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

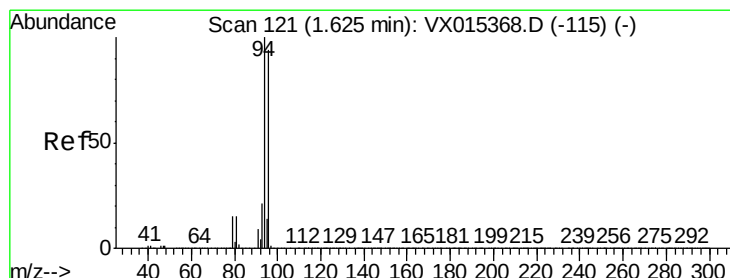
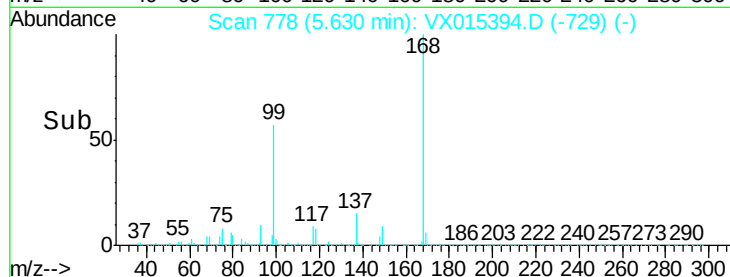
300000

200000

100000

0

Time--> 5.40 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015394.D

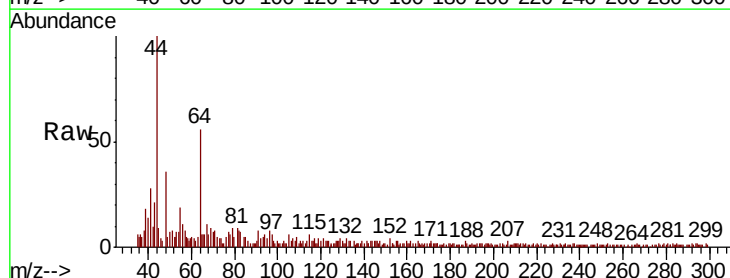
Acq: 27 Mar 2020 20:00

Tgt Ion: 94 Resp: 495

Ion Ratio Lower Upper

94 100

96 117.9 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

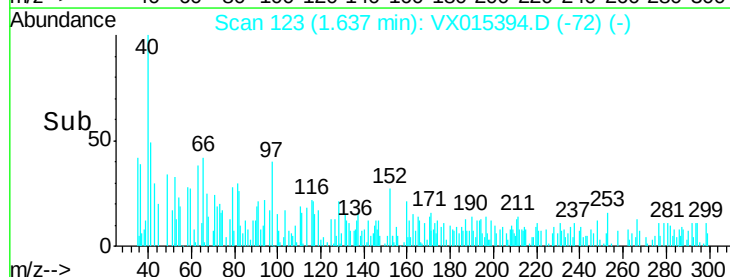
600

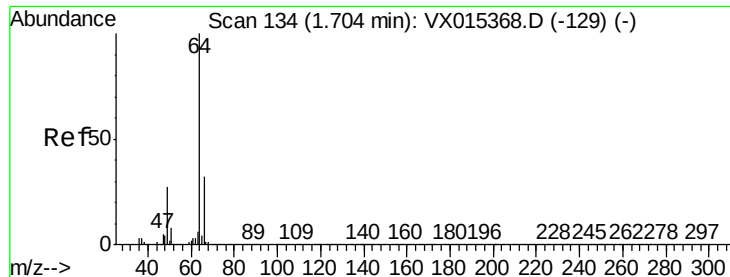
400

200

0

Time--> 1.62 1.64 1.66





#6

Chloroethane

Concen: 0.389 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

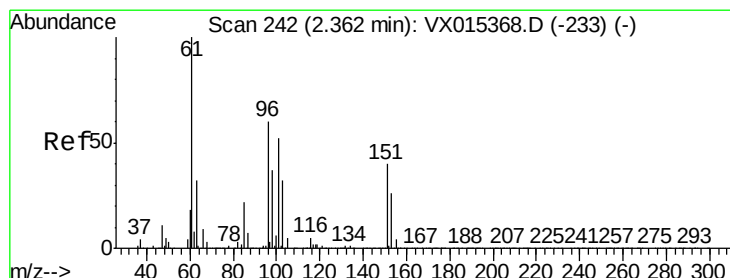
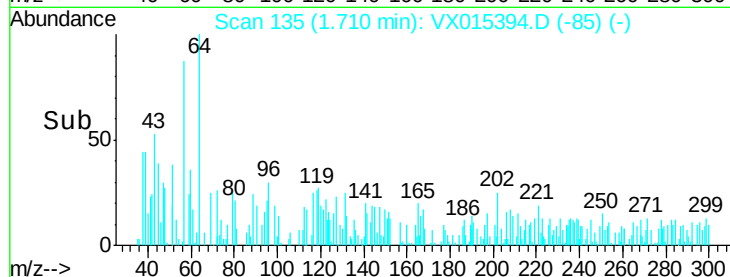
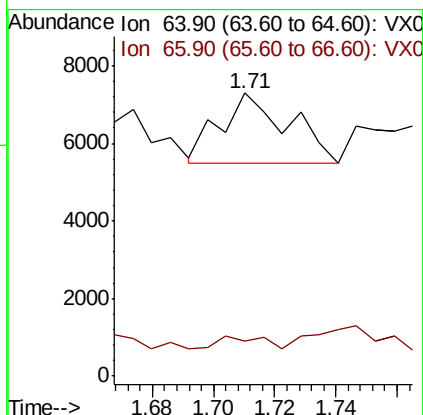
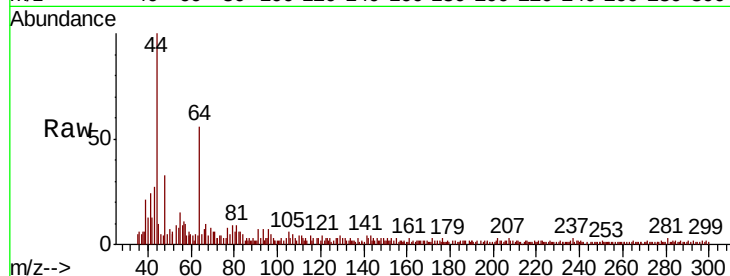
DUP06-20200316

Tot Ion: 64 Resp: 2794

Ion Ratio Lower Upper

64 100

66 9.9 25.4 38.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.429 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

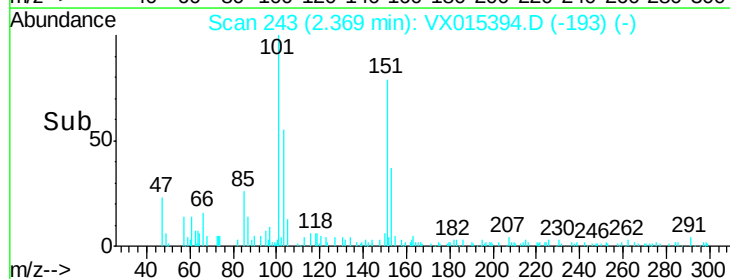
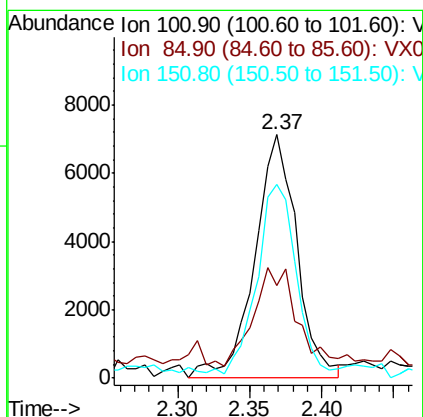
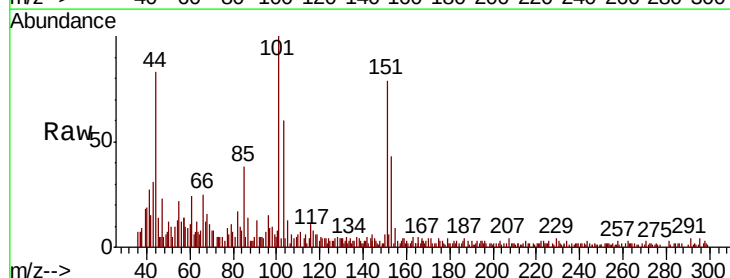
Tgt Ion: 101 Resp: 14481

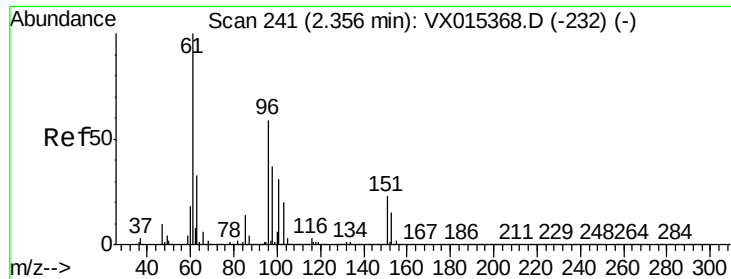
Ion Ratio Lower Upper

101 100

85 42.9 35.0 52.4

151 74.1 64.1 96.1





#12

1,1-Dichloroethene

Concen: 0.270 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20200316

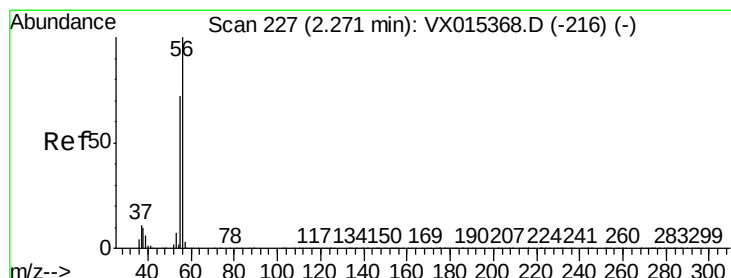
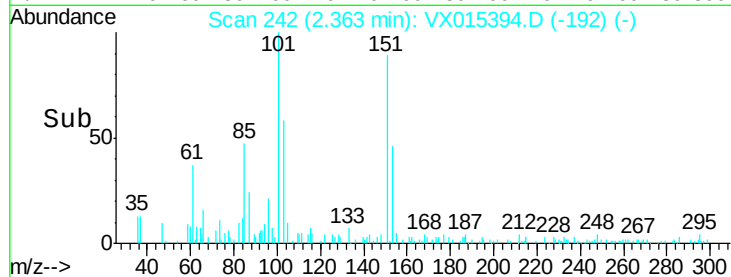
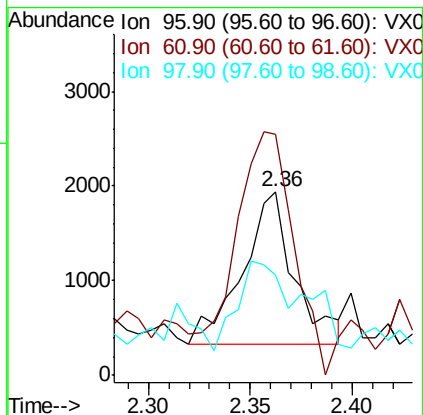
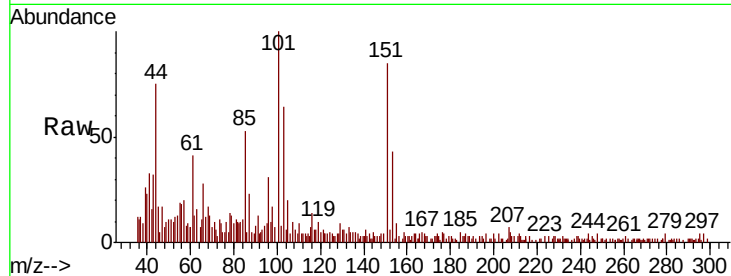
Tot Ion: 96 Resp: 2868

Ion Ratio Lower Upper

96 100

61 157.8 135.7 203.5

98 53.0 50.6 75.8



#13

Acrolein

Concen: 0.451 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.01 min

Lab File: VX015394.D

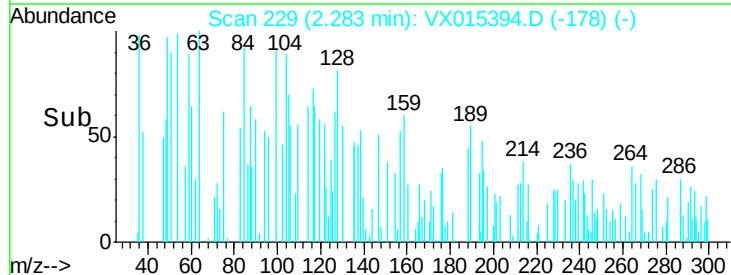
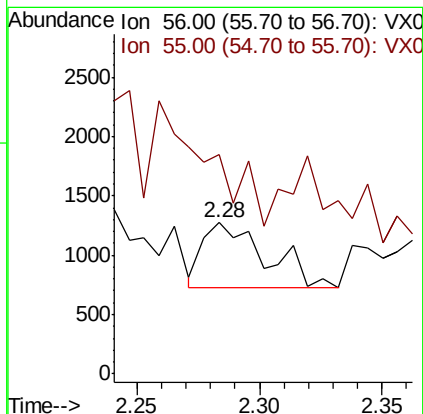
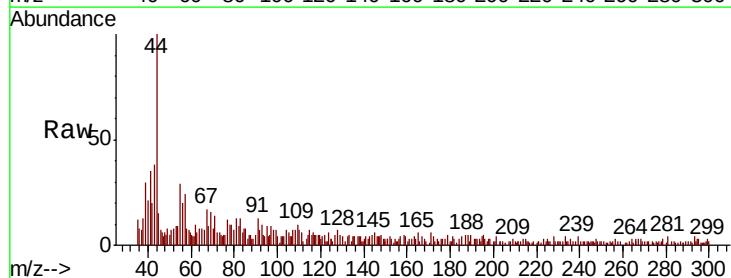
Acq: 27 Mar 2020 20:00

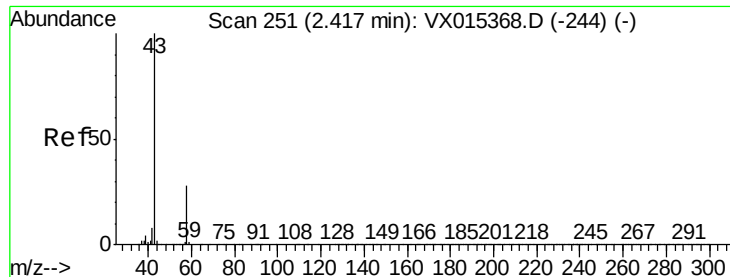
Tgt Ion: 56 Resp: 977

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#





#16

Acetone

Concen: 2.207 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

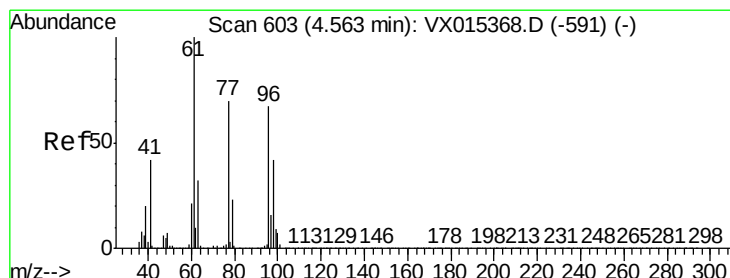
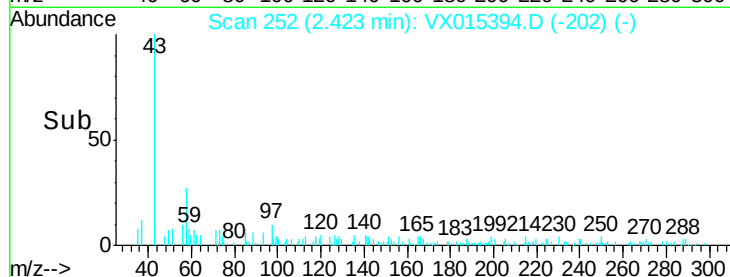
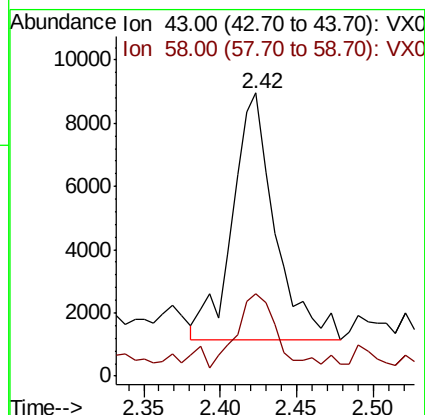
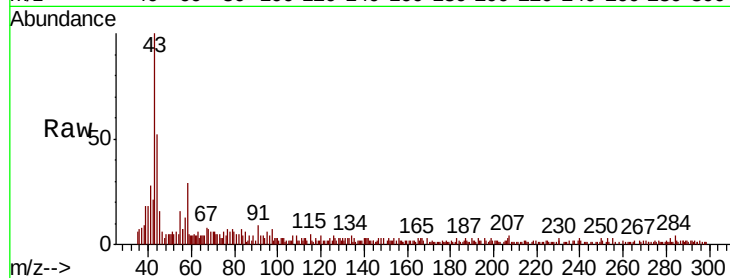
DUP06-20200316

Tot Ion: 43 Resp: 15048

Ion Ratio Lower Upper

43 100

58 28.6 22.1 33.1



#27

cis-1,2-Dichloroethene

Concen: 0.390 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

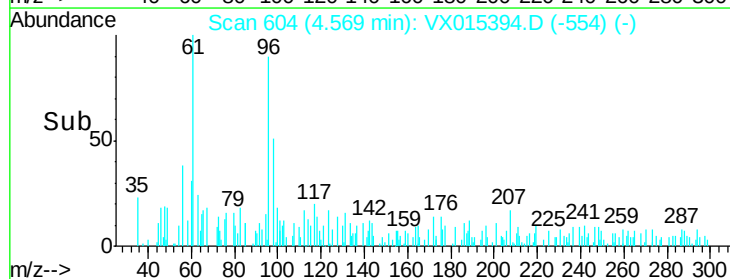
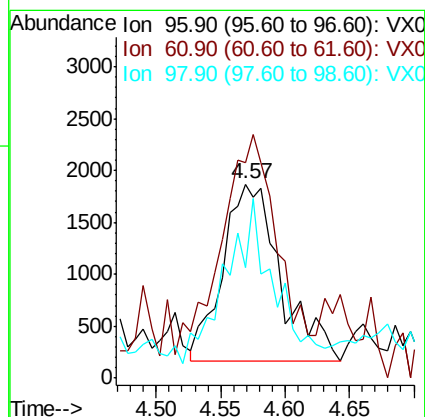
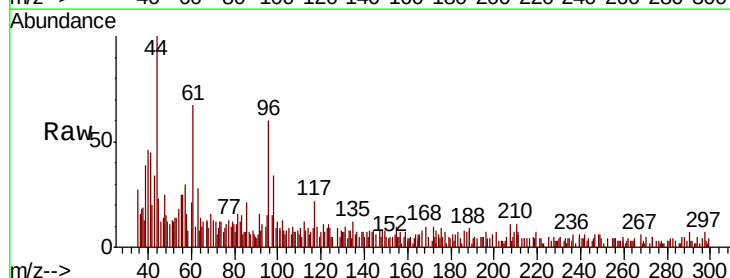
Tgt Ion: 96 Resp: 5322

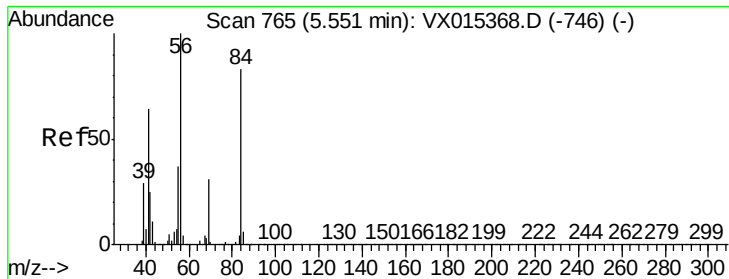
Ion Ratio Lower Upper

96 100

61 128.5 0.0 308.4

98 76.8 0.0 129.2

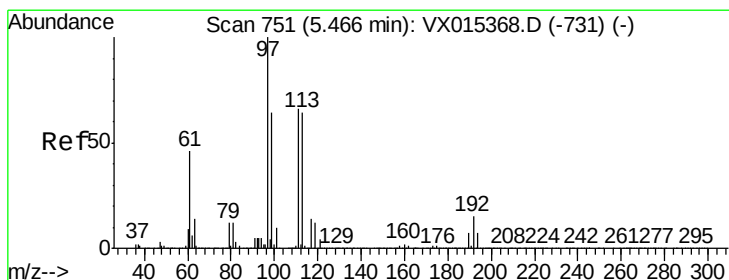
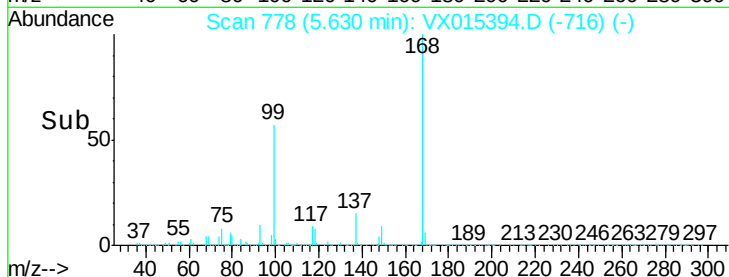
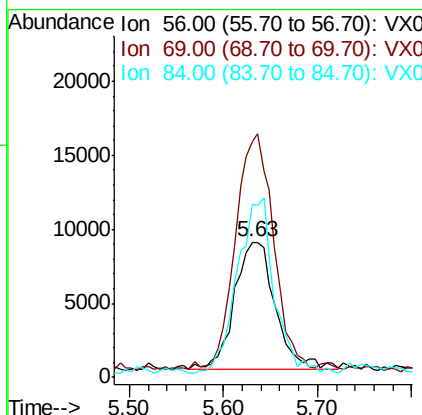
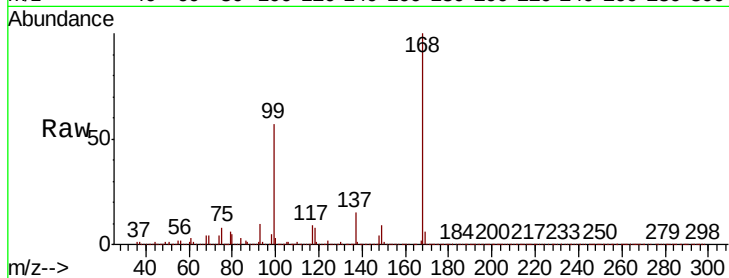




#31
Cyclohexane
Concen: 1.312 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015394.D
Acq: 27 Mar 2020 20:00

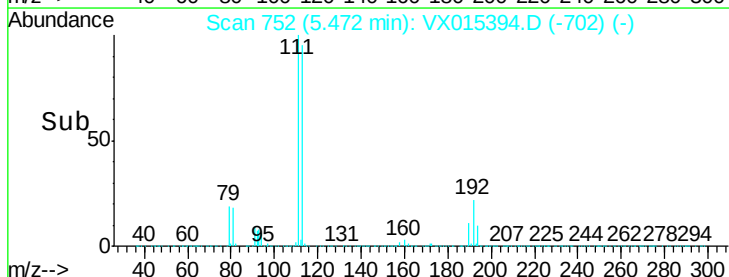
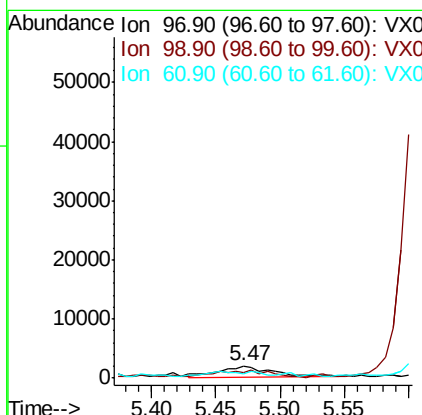
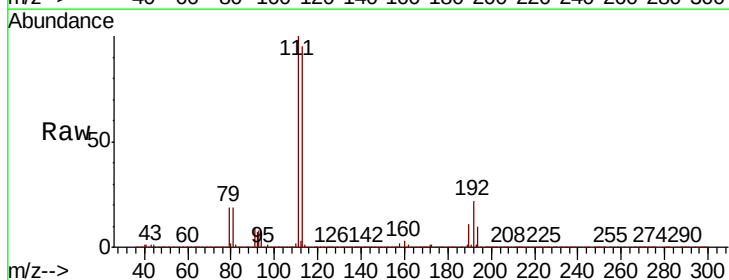
Instrument :
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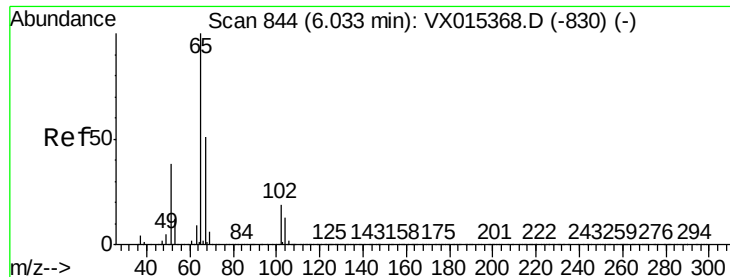
Tot Ion: 56 Resp: 26374
Ion Ratio Lower Upper
56 100
69 177.9 24.6 36.8#
84 132.2 66.1 99.1#



#32
1,1,1-Trichloroethane
Concen: 0.266 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX015394.D
Acq: 27 Mar 2020 20:00

Tgt Ion: 97 Resp: 5363
Ion Ratio Lower Upper
97 100
99 0.0 51.0 76.4#
61 27.8 36.1 54.1#

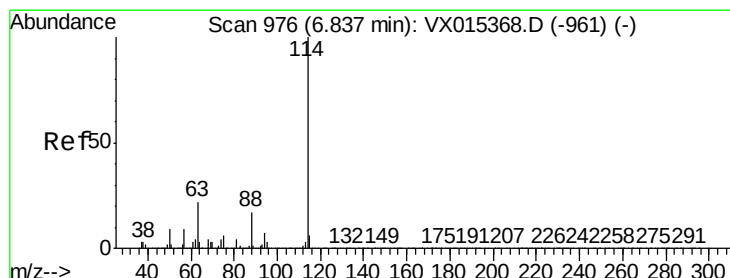
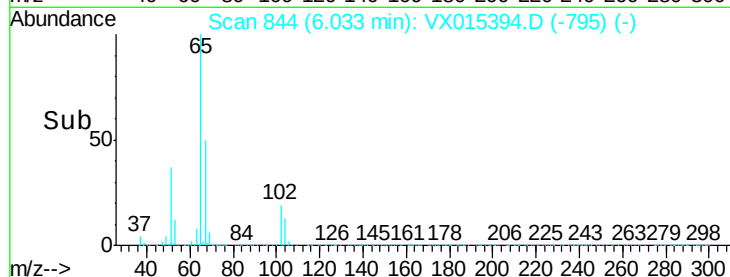
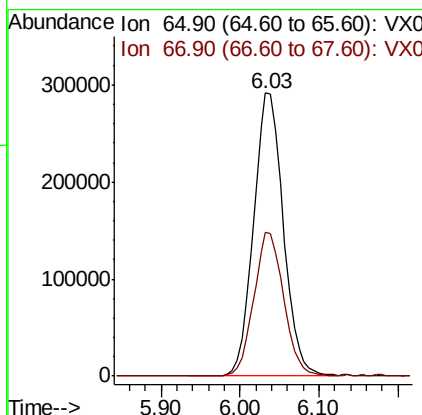
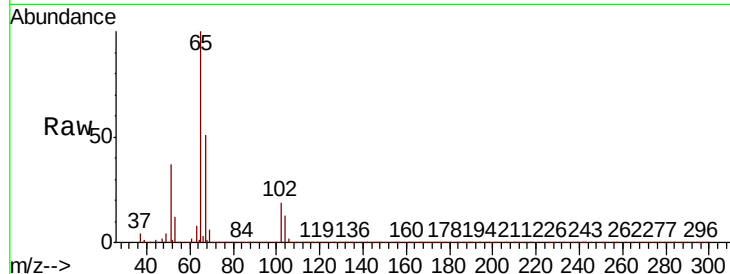




#33
 1,2-Dichloroethane-d4
 Concen: 48.022 ug/l
 RT: 6.03 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VX015394.D
 Acq: 27 Mar 2020 20:00

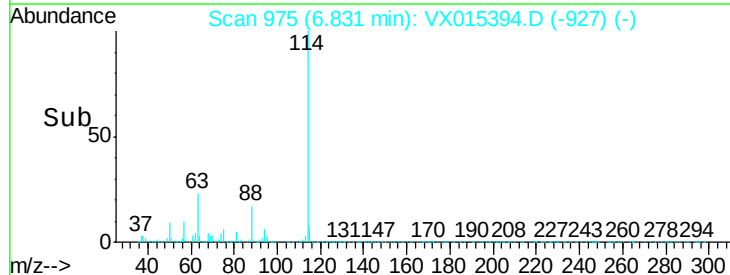
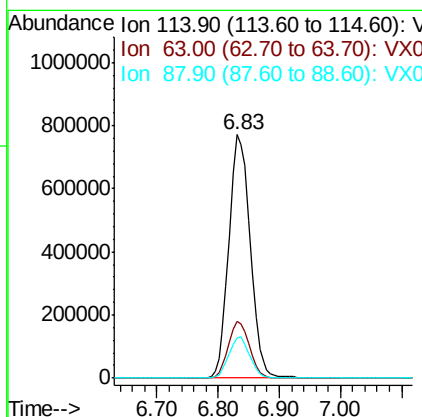
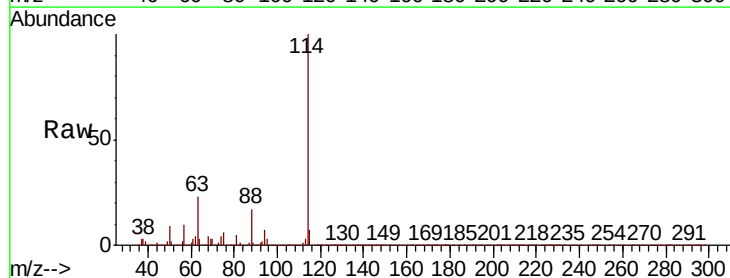
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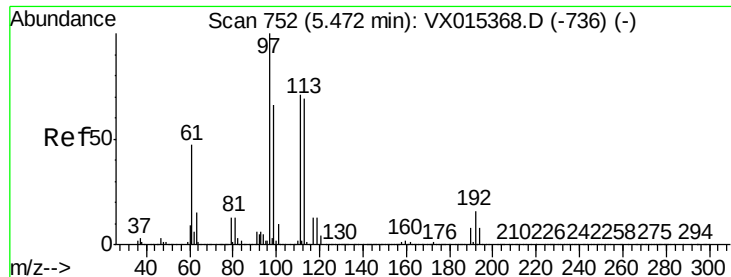
Tot Ion: 65 Resp: 762277
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 975
 Delta R.T. -0.01 min
 Lab File: VX015394.D
 Acq: 27 Mar 2020 20:00

Tgt Ion: 114 Resp: 1847812
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 44.2
 88 16.7 0.0 33.8

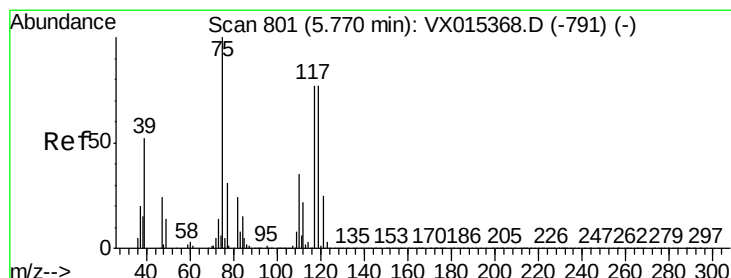
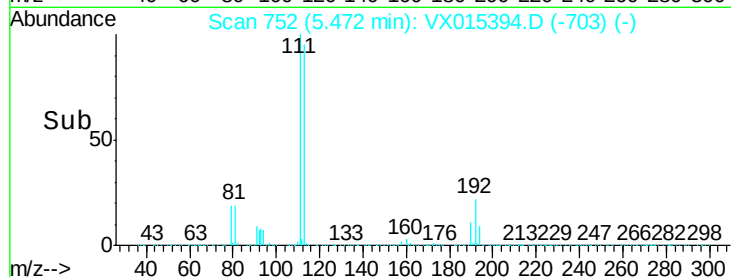
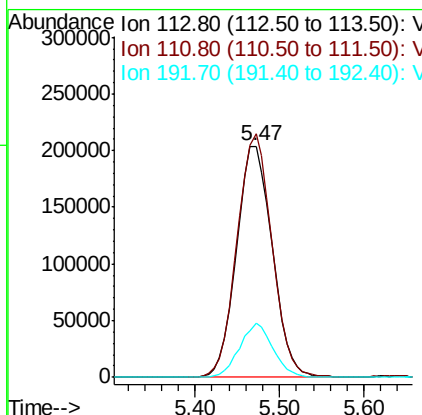
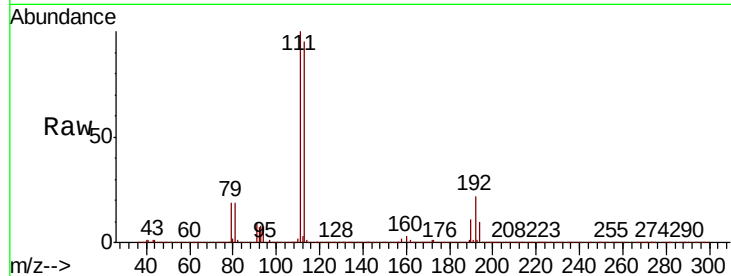




#35
 Dibromofluoromethane
 Concen: 49.604 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015394.D
 Acq: 27 Mar 2020 20:00

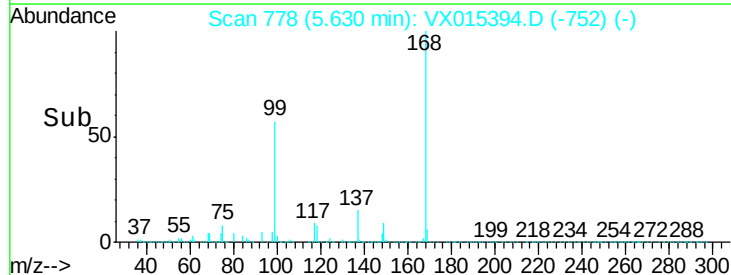
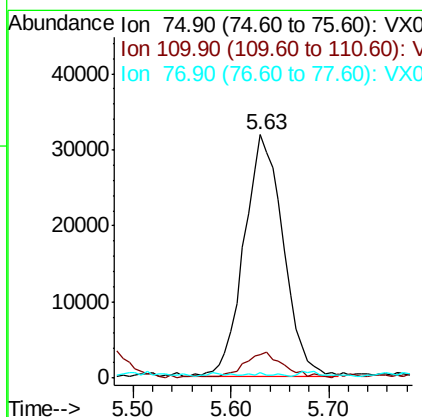
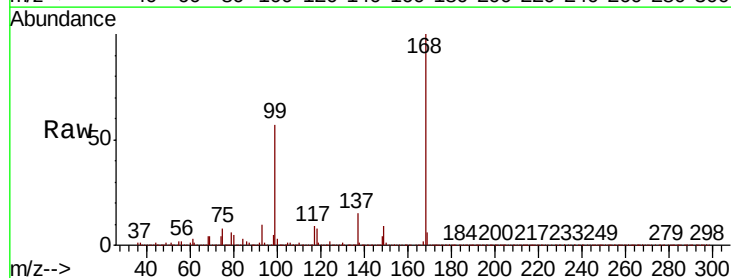
Instrument :
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 DUP06-20200316

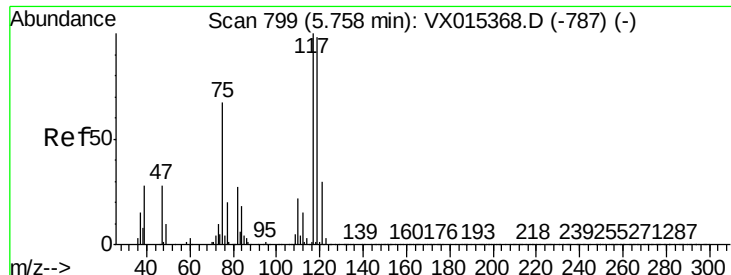
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.5	122.3
192	22.0	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.178 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015394.D
 Acq: 27 Mar 2020 20:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	17.1	51.3#
77	0.3	24.6	36.8#

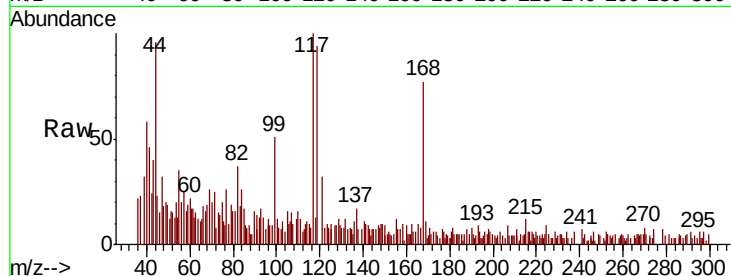




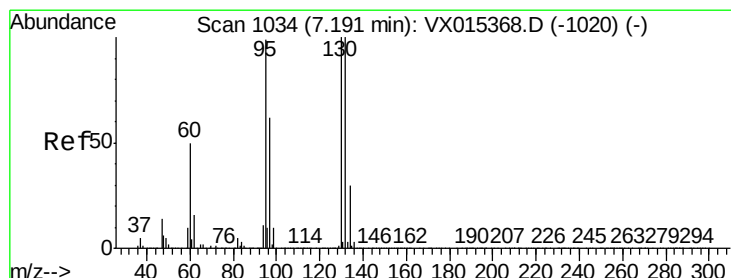
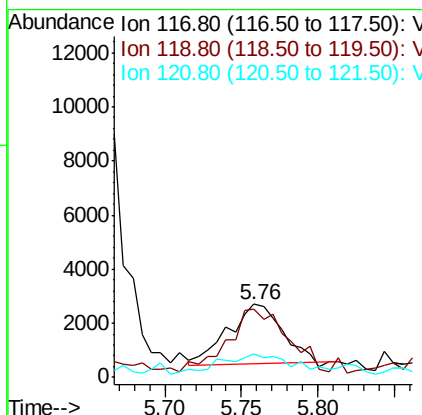
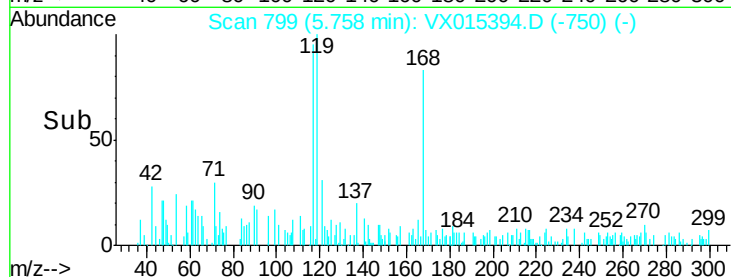
#38
Carbon Tetrachloride
Concen: 0.295 ug/l
RT: 5.76 min Scan# 799
Delta R.T. 0.00 min
Lab File: VX015394.D
Acq: 27 Mar 2020 20:00

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20200316

Tot Ion:117 Resp: 5432
Ion Ratio Lower Upper
117 100
119 90.9 78.0 117.0
121 27.3 23.8 35.8

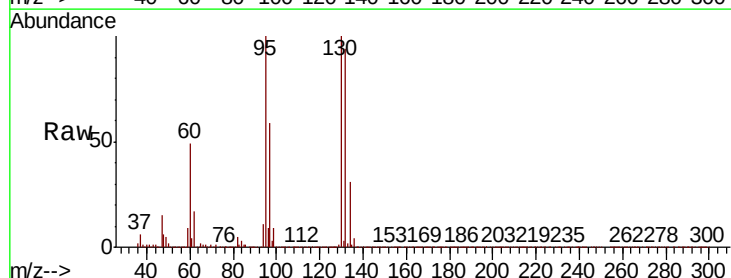


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

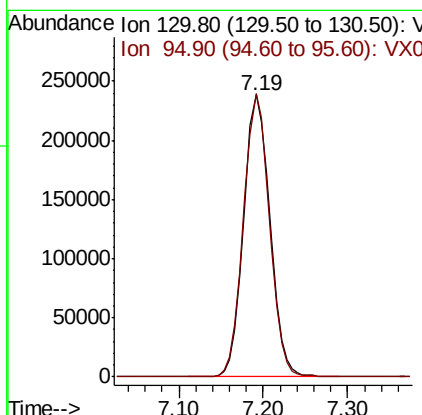
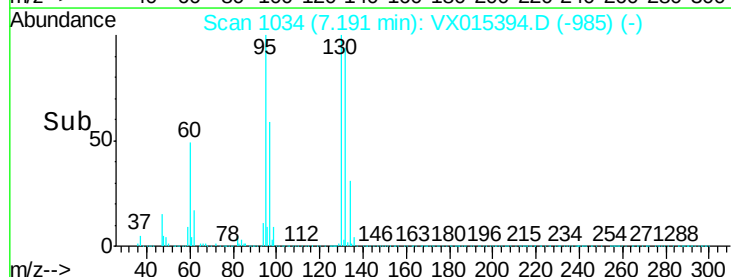


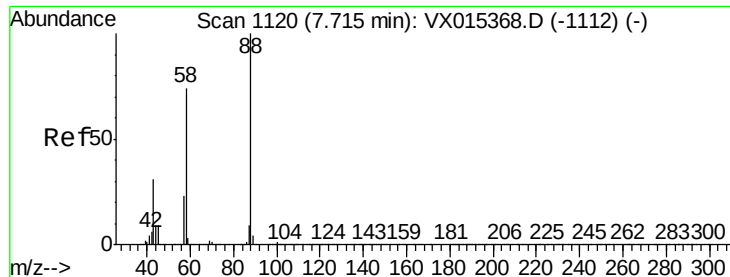
#44
Trichloroethene
Concen: 36.845 ug/l
RT: 7.19 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX015394.D
Acq: 27 Mar 2020 20:00

Tgt Ion:130 Resp: 501142
Ion Ratio Lower Upper
130 100
95 100.4 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 11.864 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20200316

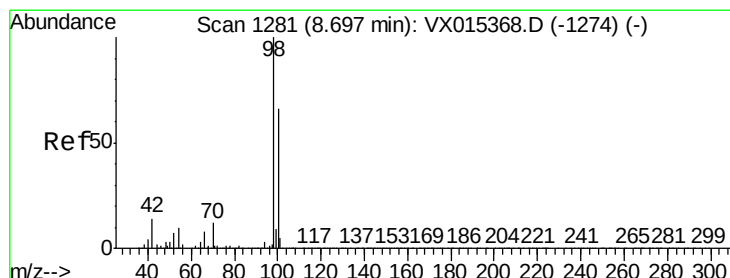
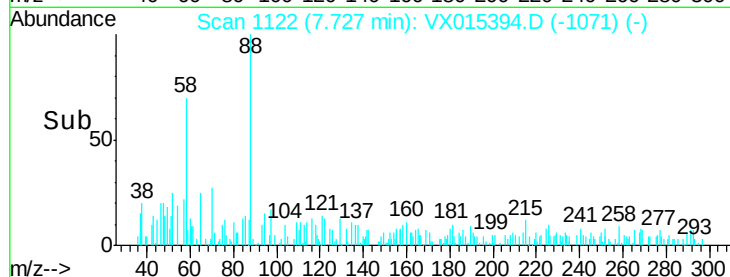
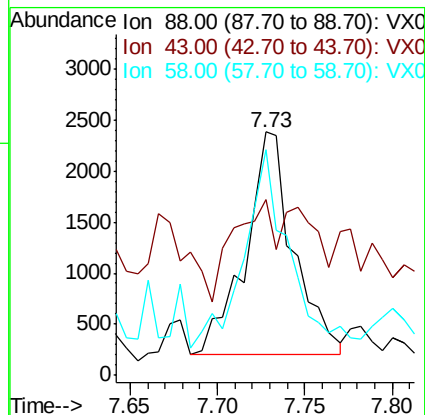
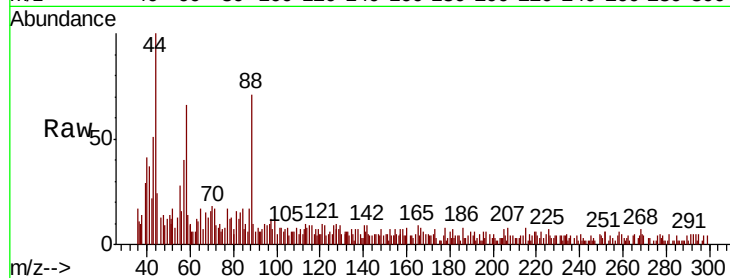
Tot Ion: 88 Resp: 4137

Ion Ratio Lower Upper

88 100

43 38.4 30.1 45.1

58 85.3 60.6 90.8



#50

Toluene-d8

Concen: 51.106 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015394.D

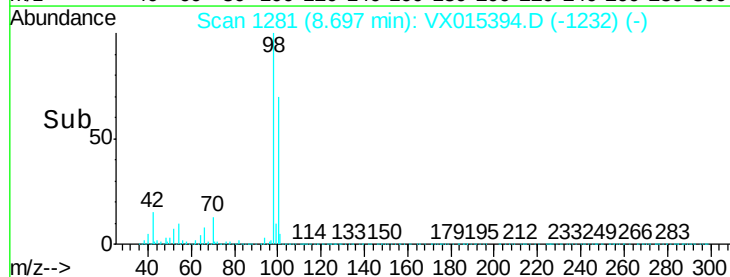
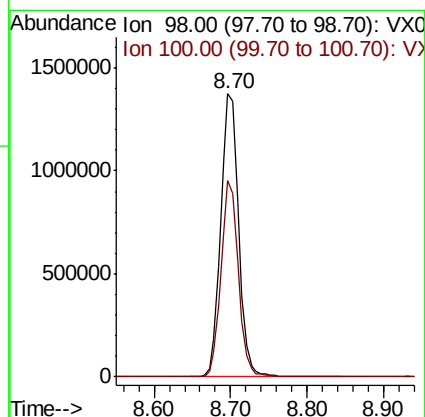
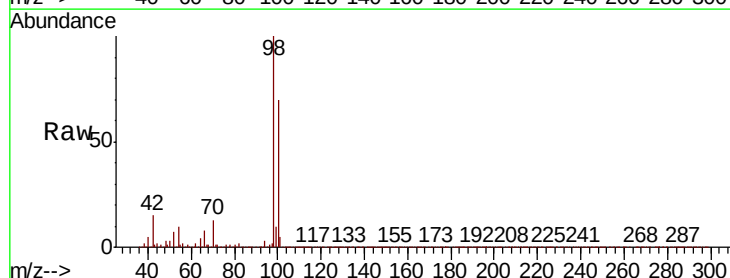
Acq: 27 Mar 2020 20:00

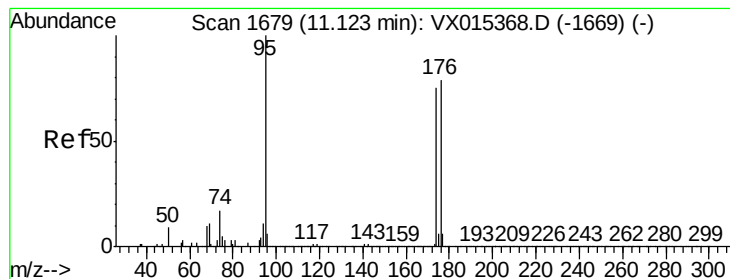
Tgt Ion: 98 Resp: 2222483

Ion Ratio Lower Upper

98 100

100 67.2 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 54.979 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20200316

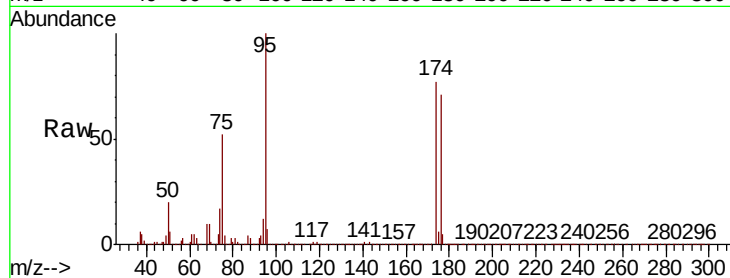
Tot Ion: 95 Resp: 971663

Ion Ratio Lower Upper

95 100

174 78.4 0.0 158.6

176 74.3 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

11.12

800000

600000

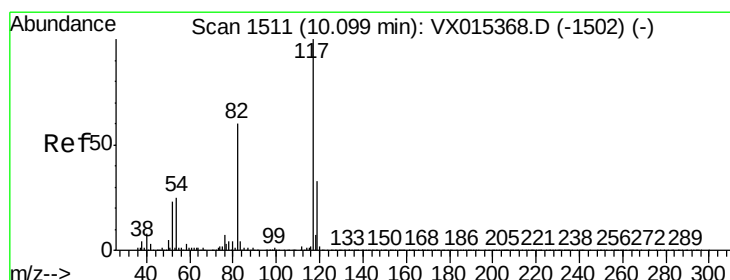
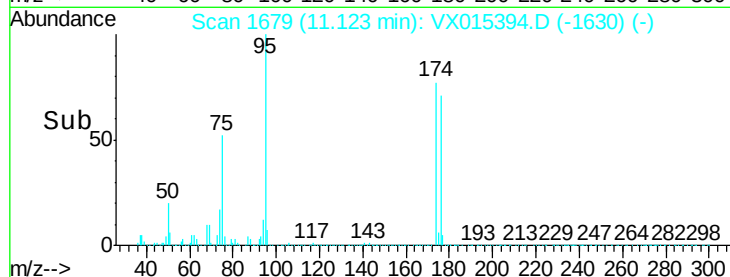
400000

200000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

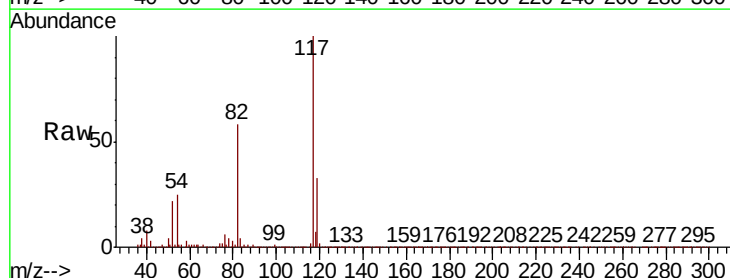
Tgt Ion: 117 Resp: 1780010

Ion Ratio Lower Upper

117 100

82 58.2 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

10.10

1500000

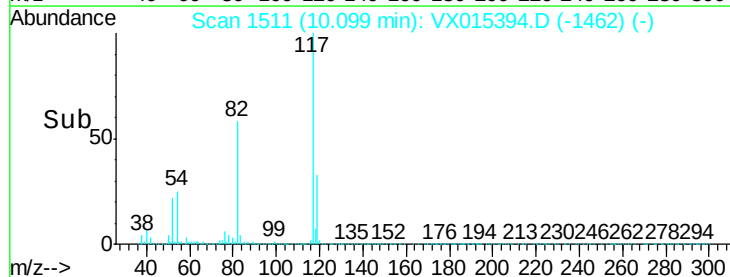
1000000

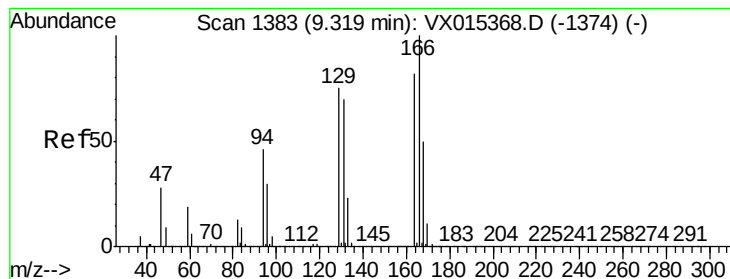
500000

0

10.00 10.10 10.20

Time-->





#64

Tetrachloroethene

Concen: 0.561 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. 0.01 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20200316

Tot Ion:164 Resp: 7535

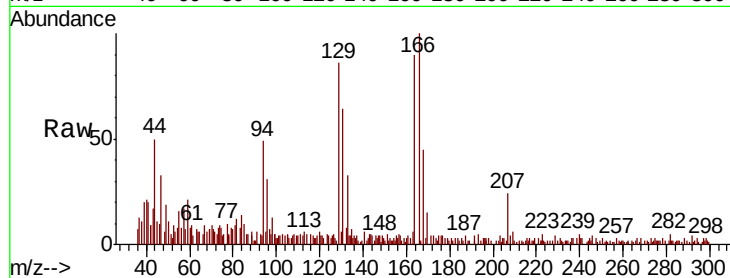
Ion Ratio Lower Upper

164 100

166 107.7 97.8 146.6

129 93.2 73.0 109.4

131 70.1 68.6 103.0



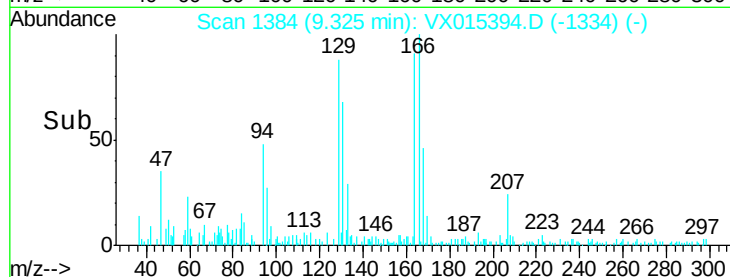
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

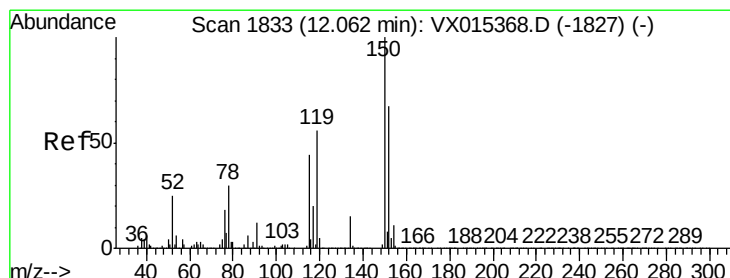
Ion 130.80 (130.50 to 131.50): V

Time-->



9.32

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

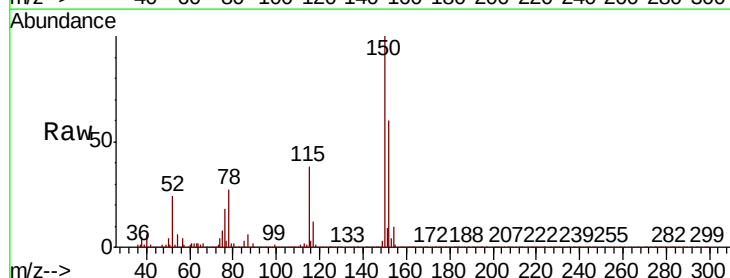
Tgt Ion:152 Resp: 928460

Ion Ratio Lower Upper

152 100

115 59.0 39.0 116.9

150 158.2 0.0 340.8

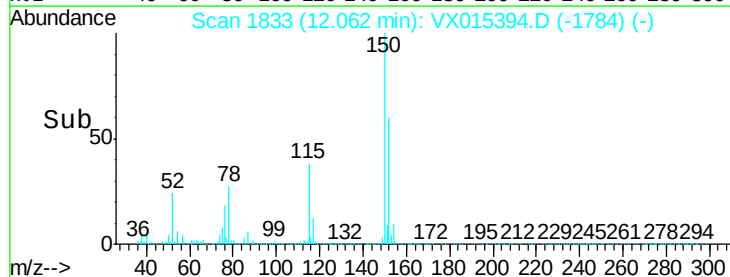


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

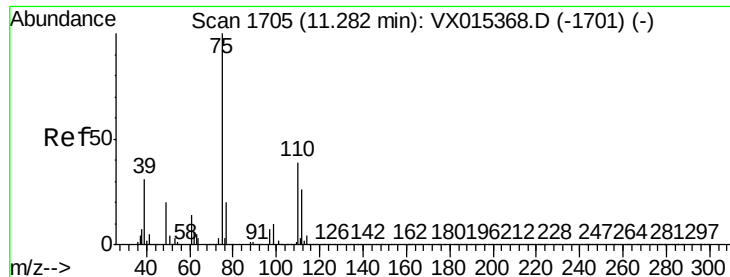
Ion 149.90 (149.60 to 150.60): V

Time-->



12.06

Time-->



#76

1,2,3-Trichloropropane

Concen: 26.300 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

Instrument :

MSVOA_X

ClientSampleId :

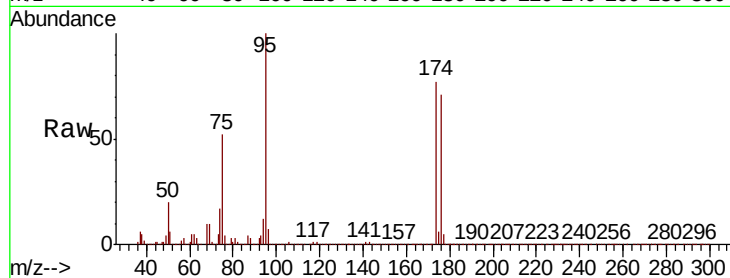
DUP06-20200316

Tot Ion: 75 Resp: 502138

Ion Ratio Lower Upper

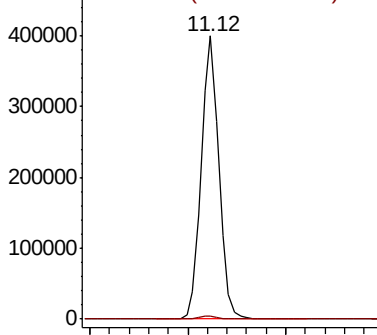
75 100

77 1.4 21.2 63.6#

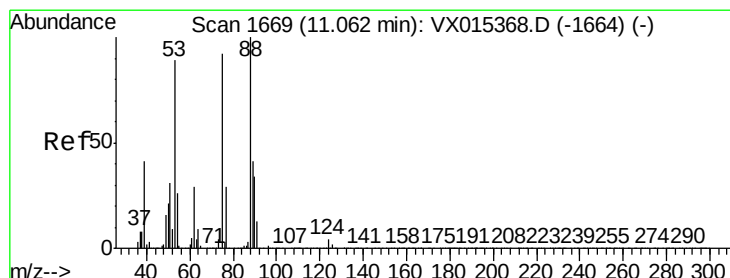
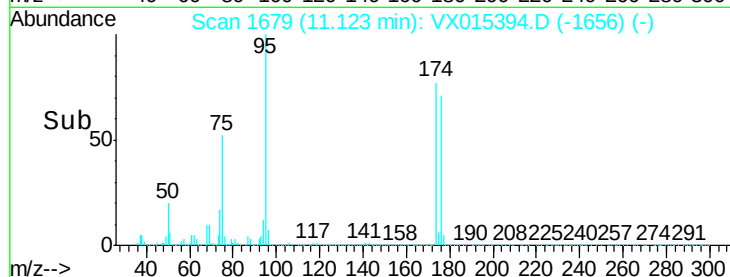


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 63.105 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015394.D

Acq: 27 Mar 2020 20:00

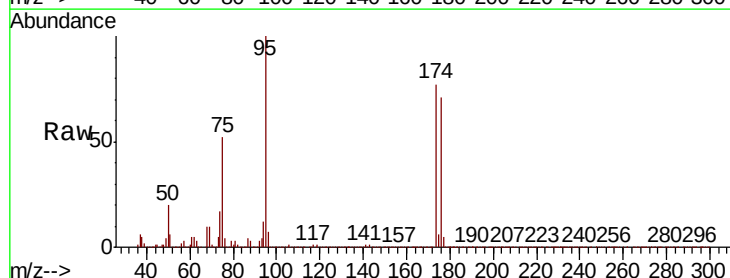
Tgt Ion: 75 Resp: 502138

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

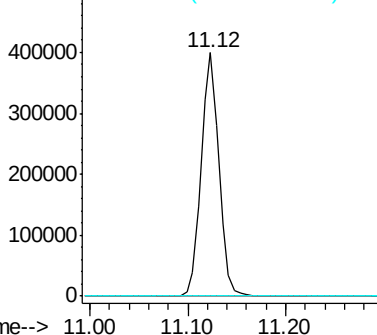
89 0.1 36.1 54.1#



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



Time--> 11.00 11.10 11.20

