

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073020\
 Data File : VL035291.D
 Acq On : 30 Jul 2020 22:33
 Operator : SY/AP
 Sample : L3216-15 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT3-2020

Quant Time: Jul 31 05:49:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1055172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2628080	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2458766	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2003927	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

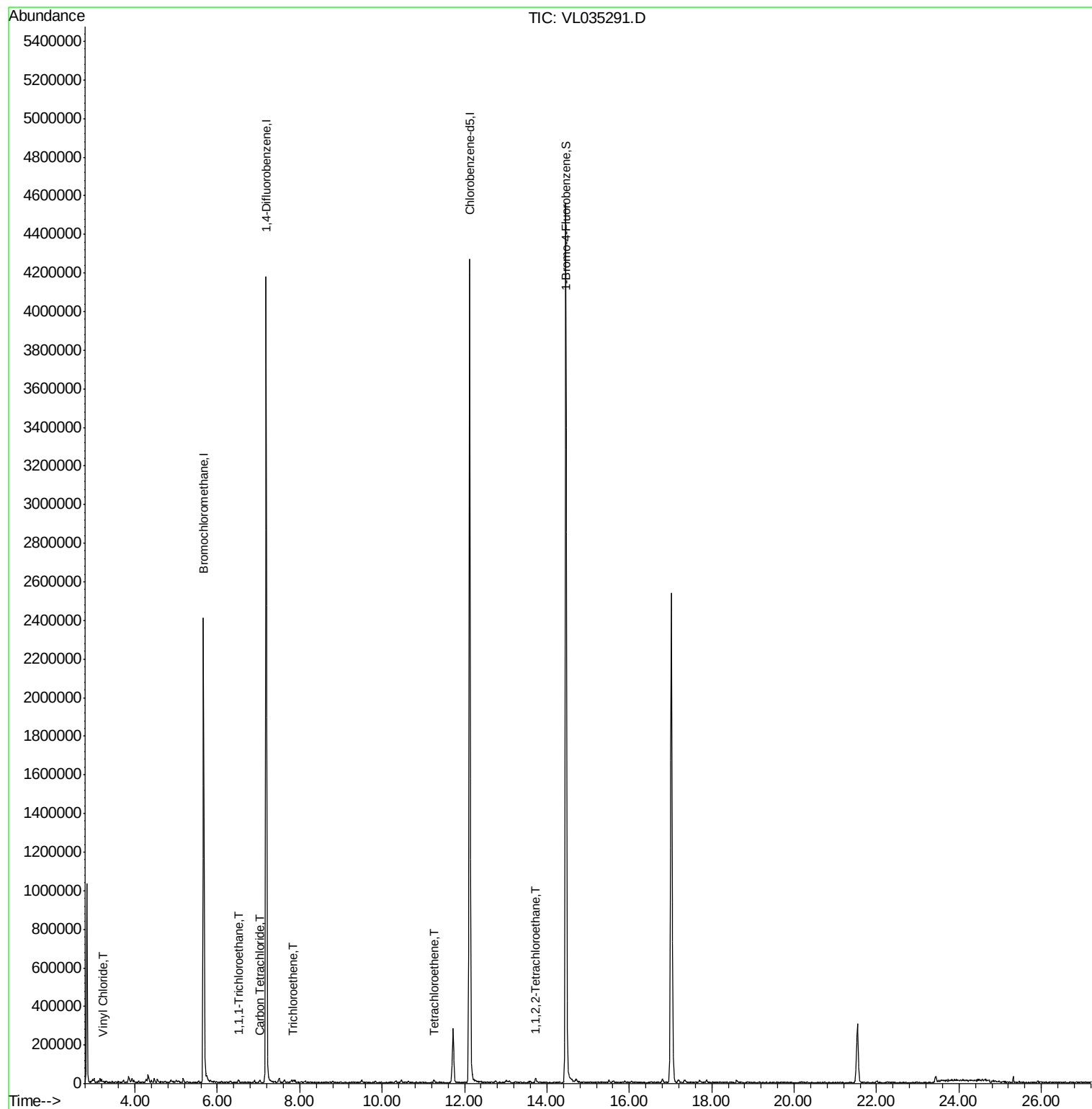
Target Compounds					Ovalue
5) Vinyl Chloride	3.22	62	3523m	0.051	ppbv
32) 1,1,1-Trichloroethane	6.52	97	8526m	0.050	ppbv
35) Carbon Tetrachloride	7.04	117	7689m	0.044	ppbv
38) Trichloroethene	7.85	130	2616m	0.035	ppbv
52) Tetrachloroethene	11.25	164	3693m	0.053	ppbv
63) 1,1,2,2-Tetrachloroethane	13.72	83	8479m	0.041	ppbv

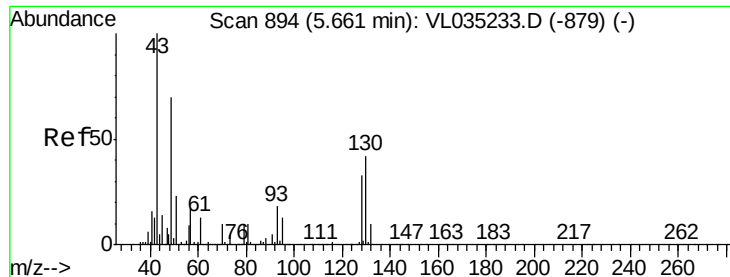
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL035291.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT3-2020

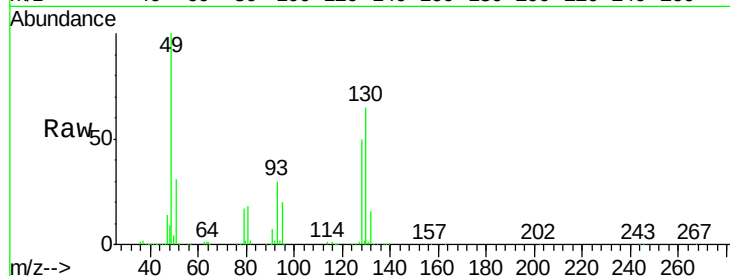
Tot Ion: 49 Resp: 1055172

Ion Ratio Lower Upper

49 100

128 50.8 24.0 72.0

130 64.3 30.7 92.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

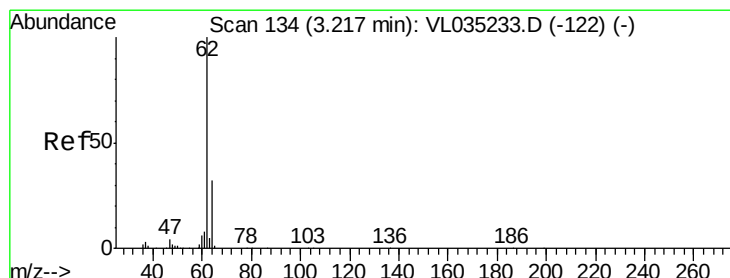
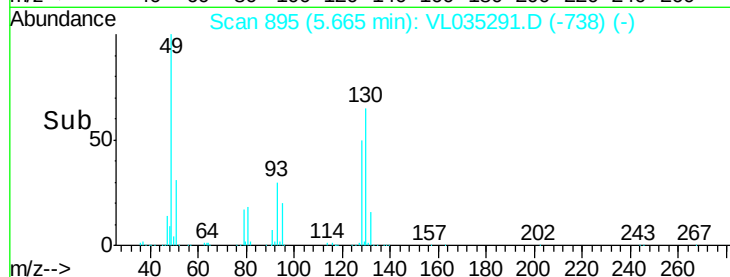
600000

400000

200000

0

Time-->



#5

Vinyl Chloride

Concen: 0.051 ppbv m

RT: 3.22 min Scan# 136

Delta R.T. 0.01 min

Lab File: VL035291.D

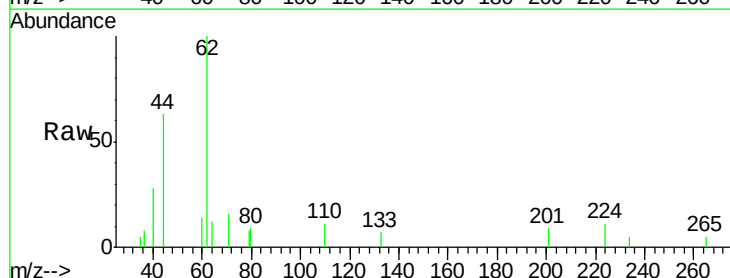
Acq: 30 Jul 2020 22:33

Tgt Ion: 62 Resp: 3523

Ion Ratio Lower Upper

62 100

64 12.1 25.8 38.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

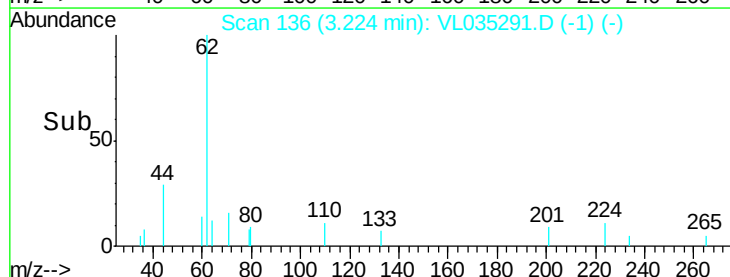
3000

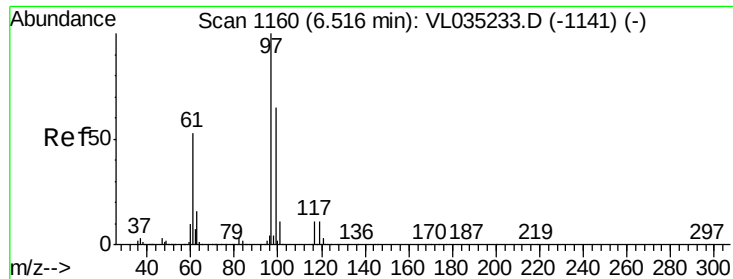
2000

1000

0

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.050 ppbv m

RT: 6.52 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT3-2020

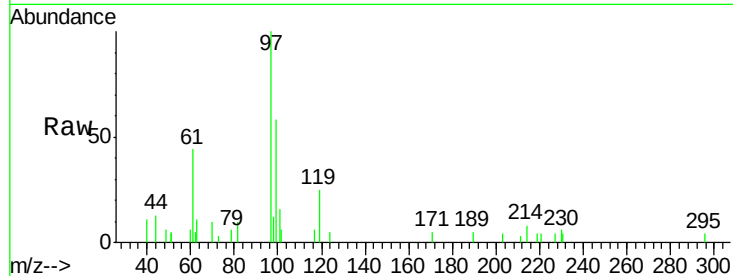
Tot Ion: 97 Resp: 8526

Ion Ratio Lower Upper

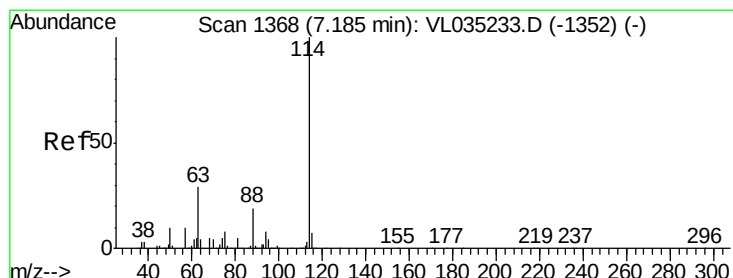
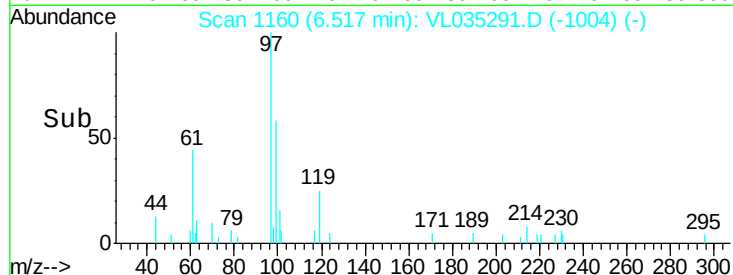
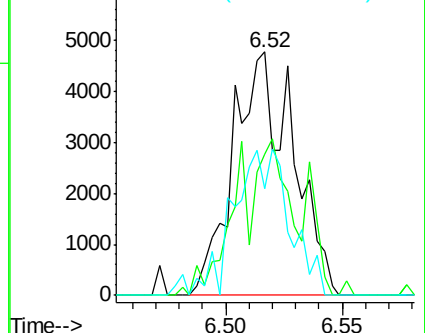
97 100

99 66.0 51.4 77.0

61 56.7 40.4 60.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

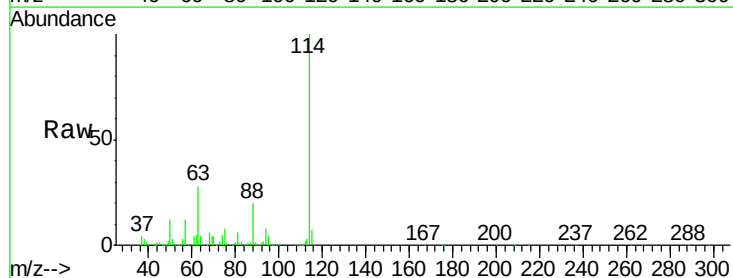
Tgt Ion: 114 Resp: 2628080

Ion Ratio Lower Upper

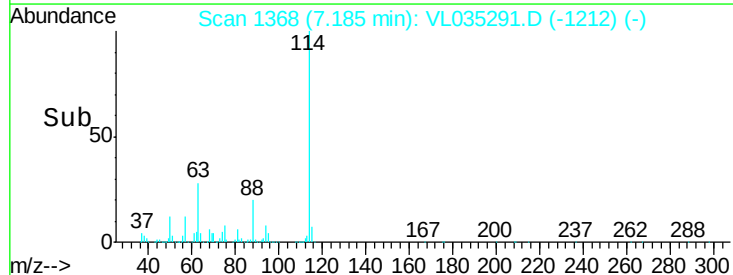
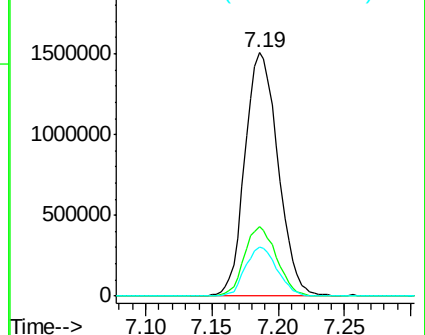
114 100

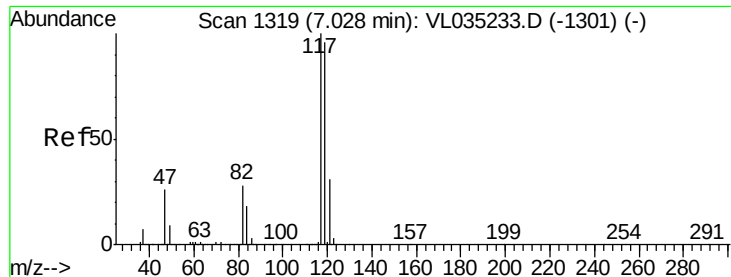
63 27.9 22.2 33.2

88 19.4 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 7.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

Instrument :

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ClientSampleId :

MDL-AIR-01-QT3-2020

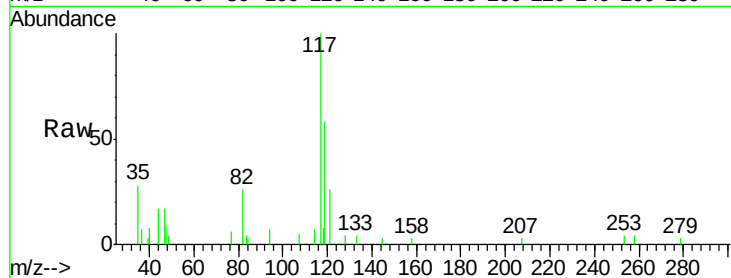
Tot Ion:117 Resp: 7689

Ion Ratio Lower Upper

117 100

119 57.9 76.8 115.2#

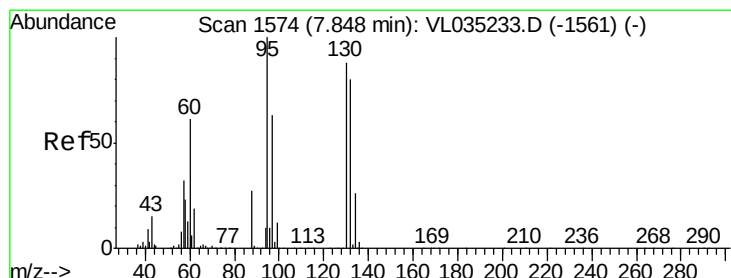
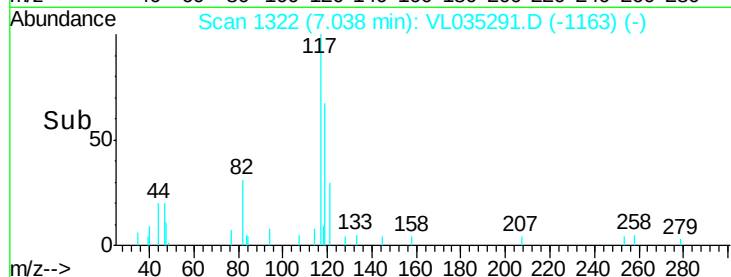
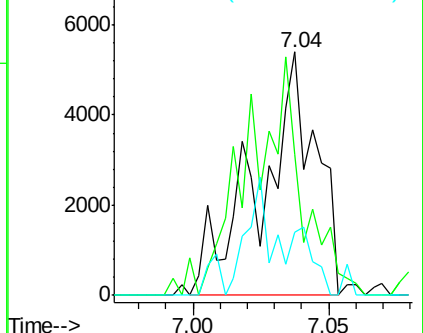
121 25.9 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.035 ppbv m

RT: 7.85 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

Tgt Ion:130 Resp: 2616

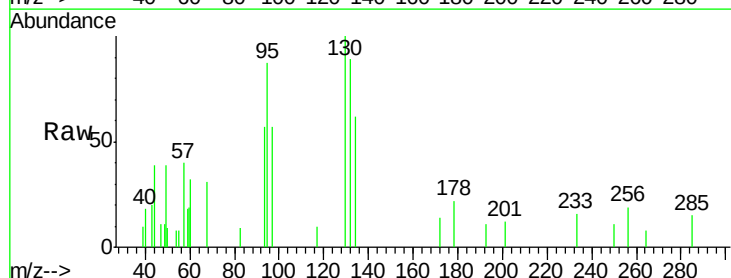
Ion Ratio Lower Upper

130 100

95 87.1 90.7 136.1#

132 89.2 72.9 109.3

97 56.9 57.1 85.7#

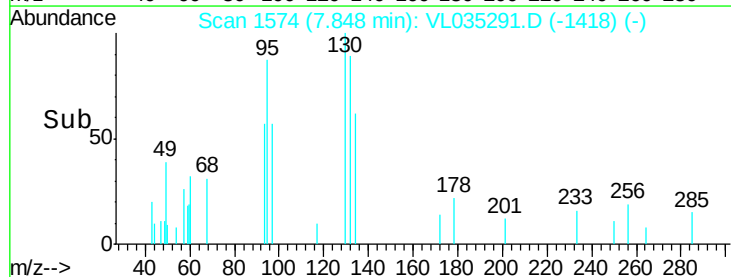
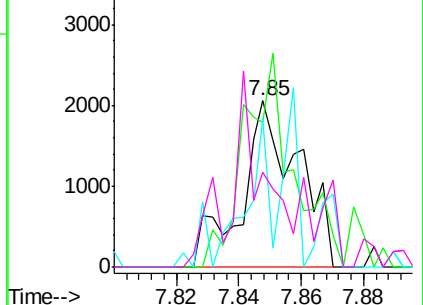


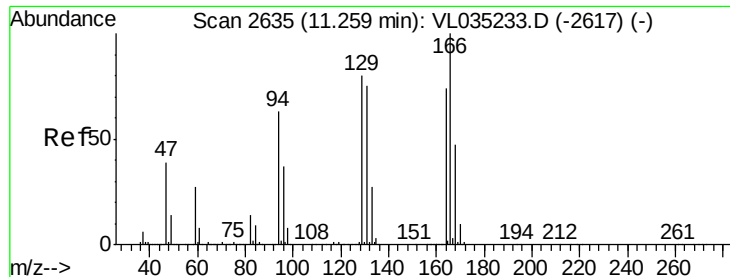
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.053 ppbv m

RT: 11.25 min Scan# 2632

Delta R.T. -0.01 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT3-2020

Tot Ion:164 Resp: 3693

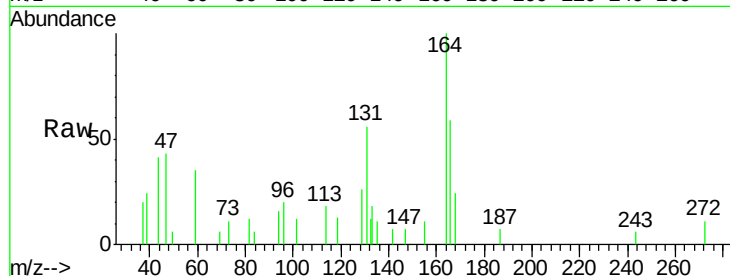
Ion Ratio Lower Upper

164 100

166 59.5 107.5 161.3#

129 26.2 86.0 129.0#

131 55.5 80.3 120.5#

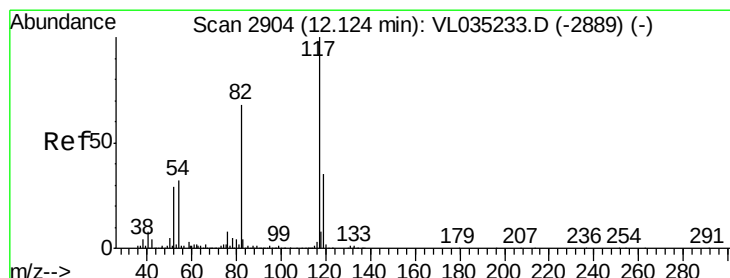
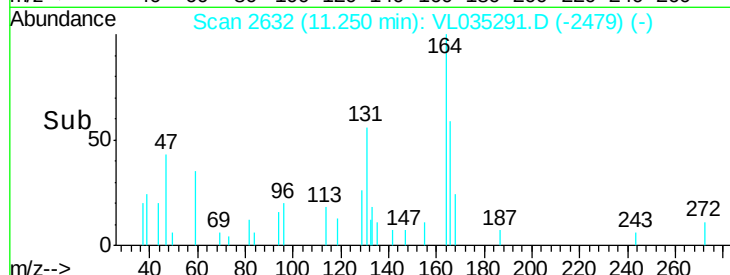
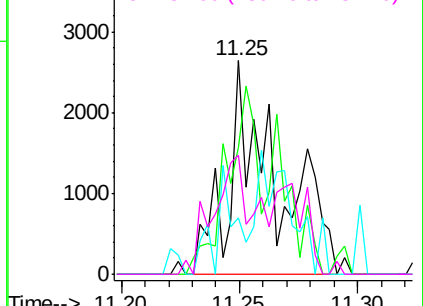


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

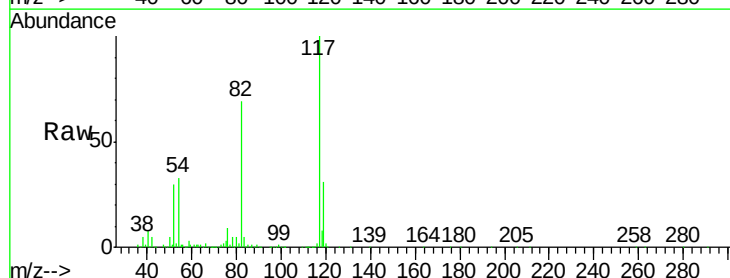
Tgt Ion:117 Resp: 2458766

Ion Ratio Lower Upper

117 100

82 68.9 52.4 78.6

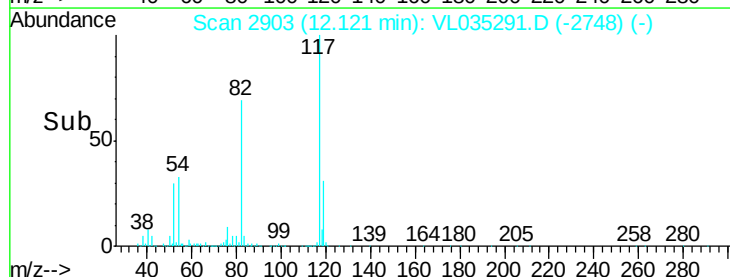
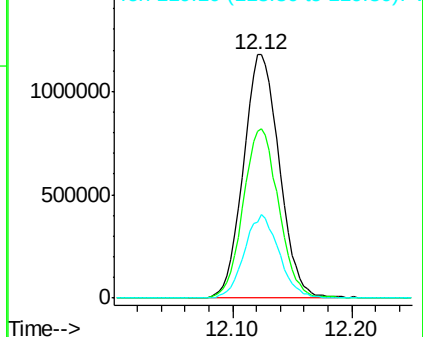
119 33.1 24.6 36.8

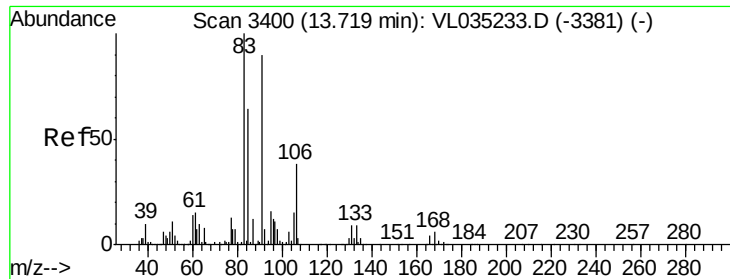


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.041 ppbv m

RT: 13.72 min Scan# 3400

Delta R.T. 0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT3-2020

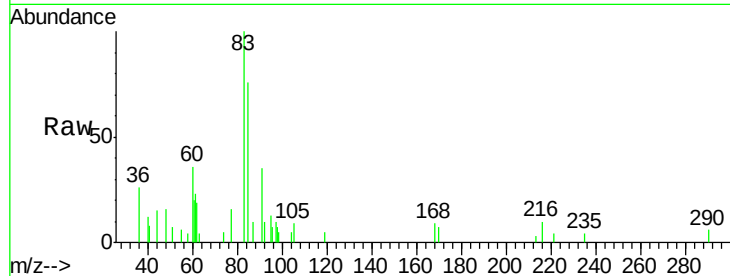
Tot Ion: 83 Resp: 8479

Ion Ratio Lower Upper

83 100

131 6.7 4.6 13.8

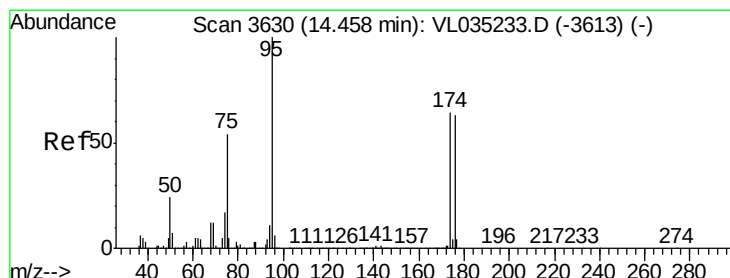
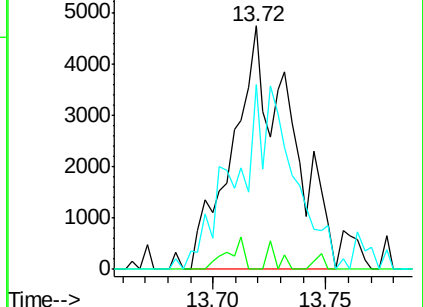
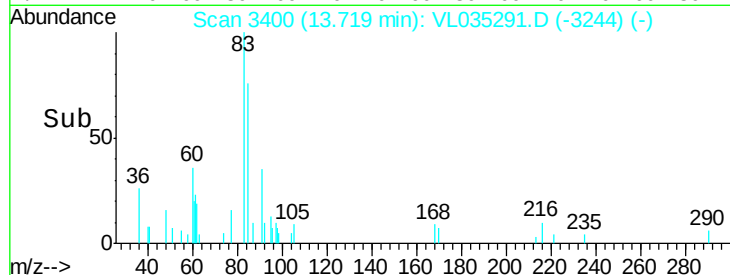
85 80.2 32.7 98.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.200 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035291.D

Acq: 30 Jul 2020 22:33

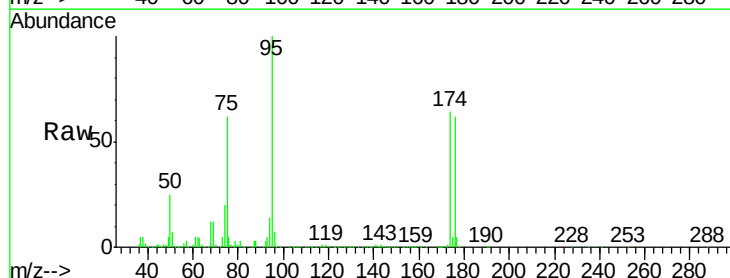
Tgt Ion: 95 Resp: 2003927

Ion Ratio Lower Upper

95 100

174 64.7 52.7 79.1

175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

