

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034950.D
 Acq On : 7 May 2020 1:25
 Operator : SY/AP
 Sample : L2182-13 0.03PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:31:40 PM

Quant Time: May 07 07:34:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	2338002	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5068543	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4875817	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3977395	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	3243m	0.022	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	15342m	0.046	ppbv	
35) Carbon Tetrachloride	7.03	117	15411m	0.048	ppbv	
38) Trichloroethene	7.85	130	7481m	0.046	ppbv	
52) Tetrachloroethene	11.25	164	6424m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	17953	0.044	ppbv	98

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

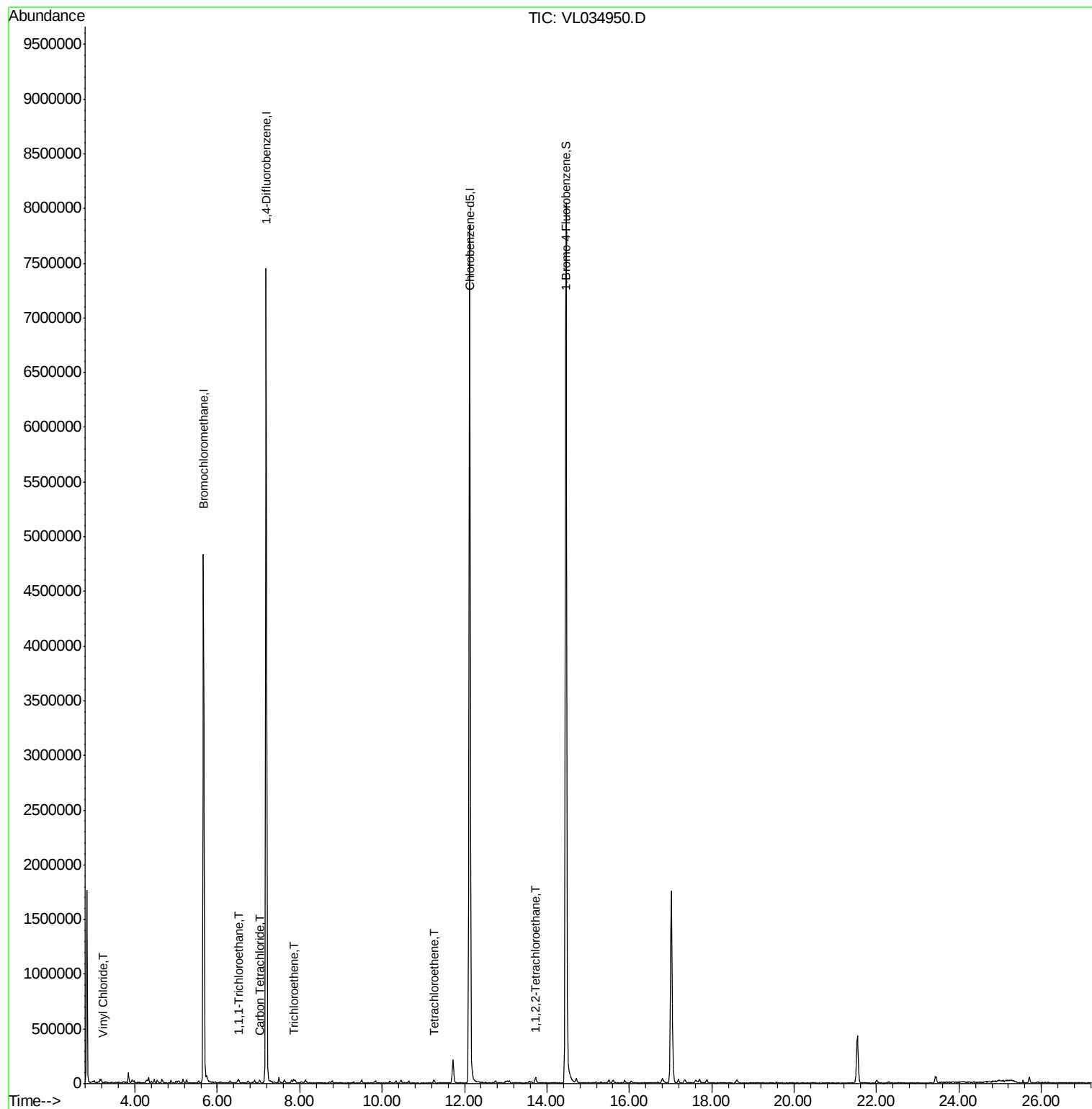
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
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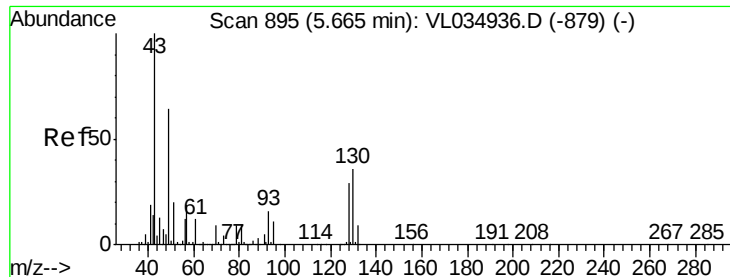
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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2020

Tot Ion: 49 Resp: 2338002

Ion Ratio Lower Upper

49 100

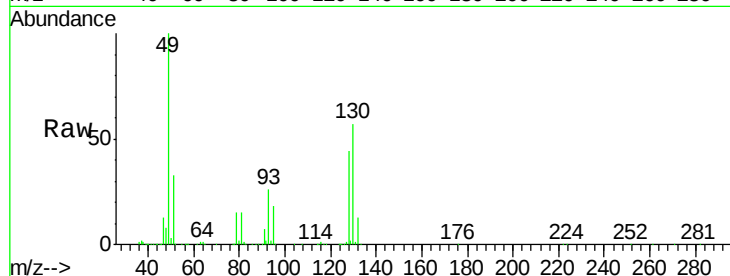
128 45.2 22.1 66.5

130 57.2 29.1 87.3

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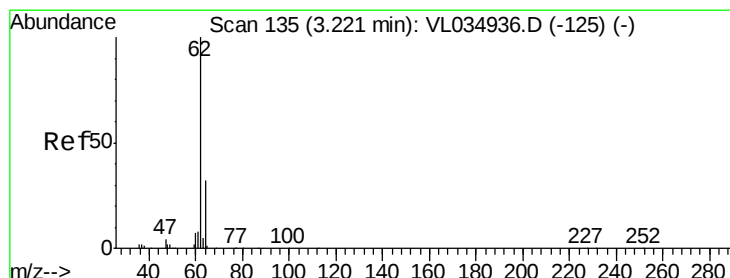
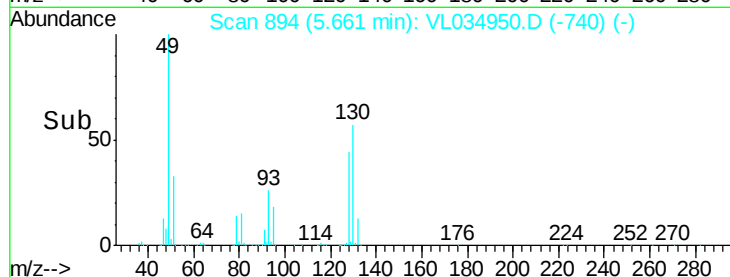
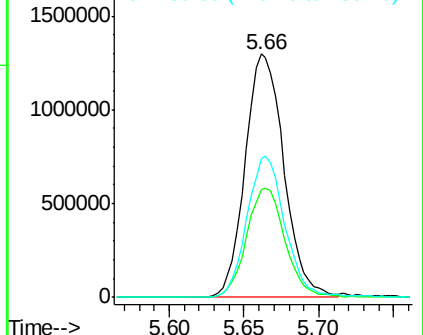
5/7/2020 2:31:40 PM



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

Vinyl Chloride

Concen: 0.022 ppbv m

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034950.D

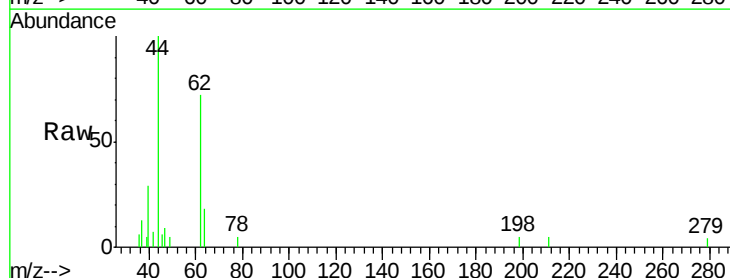
Acq: 7 May 2020 1:25

Tgt Ion: 62 Resp: 3243

Ion Ratio Lower Upper

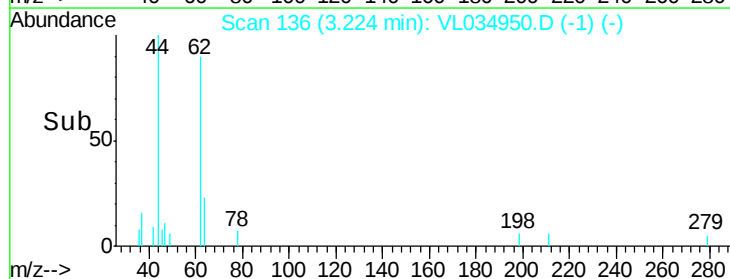
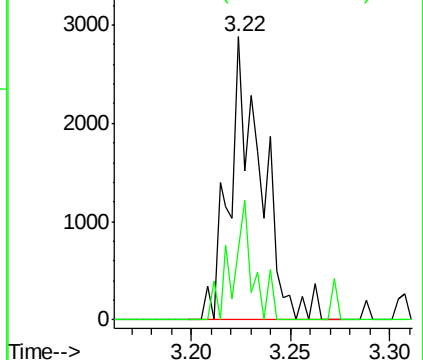
62 100

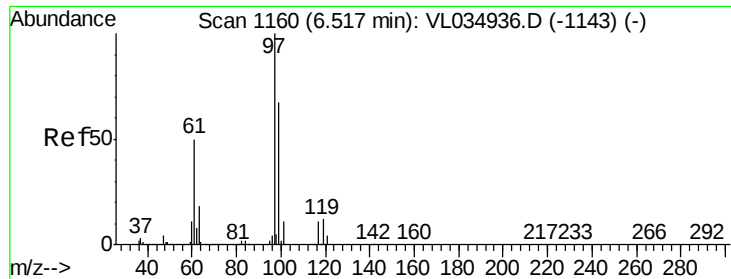
64 25.1 25.7 38.5#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.046 ppbv m

RT: 6.52 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Instrument :

MSVOA_L

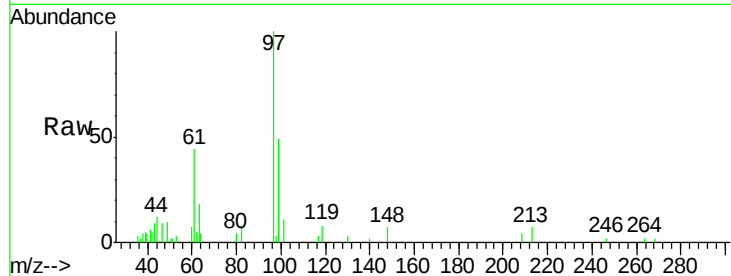
ClientSampleId :

LOD-MDL-AIR-01-QT2-2020

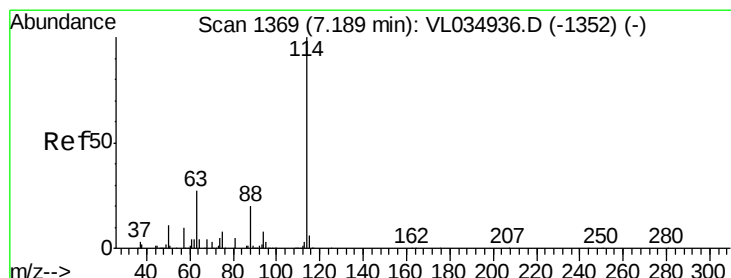
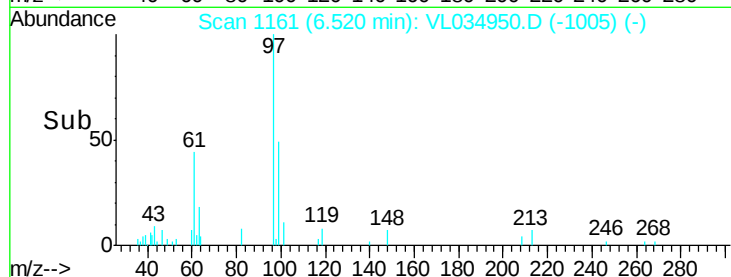
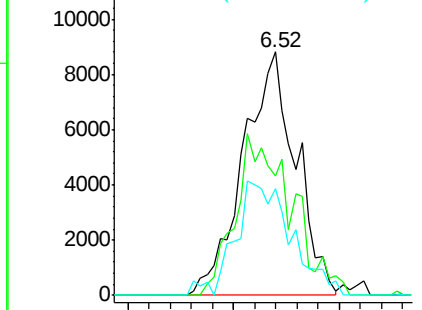
Tot Ion:	97	Resp:	15342
Ion Ratio	Lower	Upper	
97	100		
99	70.0	52.1	78.1
61	49.7	41.8	62.8

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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

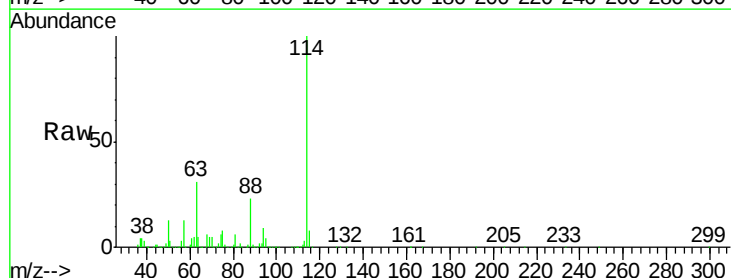
RT: 7.19 min Scan# 1368

Delta R.T. -0.00 min

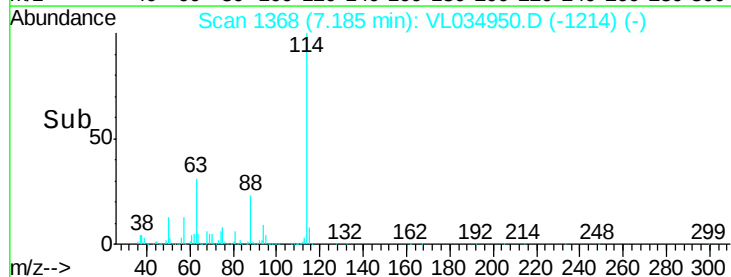
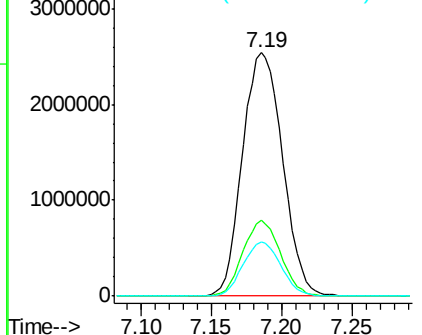
Lab File: VL034950.D

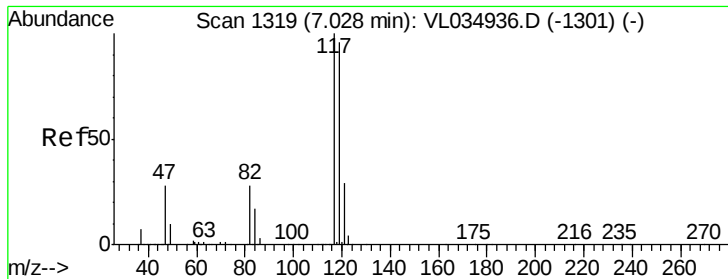
Acq: 7 May 2020 1:25

Tgt Ion:	114	Resp:	5068543
Ion Ratio	Lower	Upper	
114	100		
63	29.4	22.2	33.4
88	21.0	15.5	23.3



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: 0.048 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Instrument :

MSVOA_L

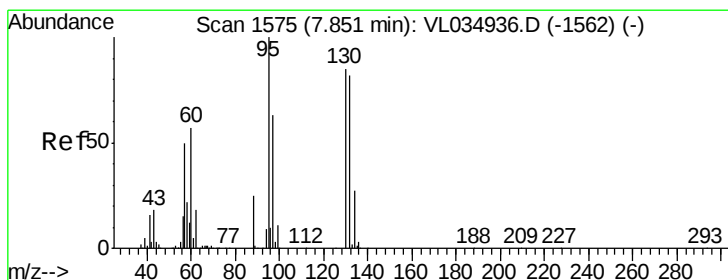
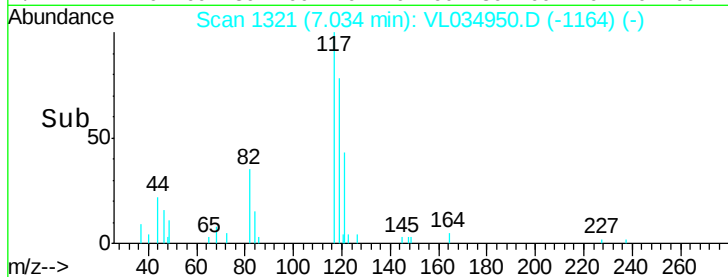
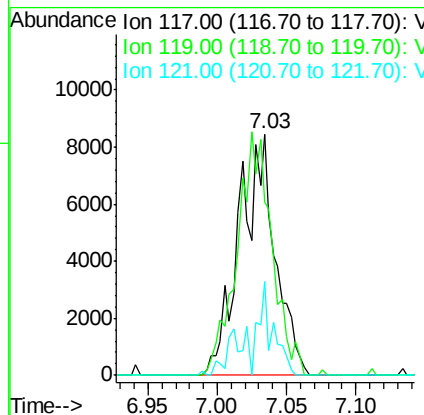
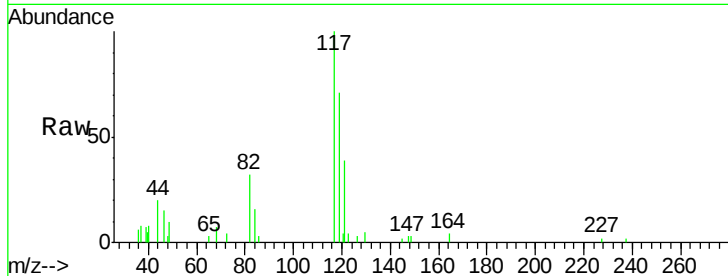
ClientSampleId :

LOD-MDL-AIR-01-QT2-2020

Tot Ion:	117	Resp:	15411
Ion Ratio	Lower	Upper	
117	100		
119	71.5	77.0	115.6#
121	39.0	23.0	34.6#

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#38

Trichloroethene

Concen: 0.046 ppbv m

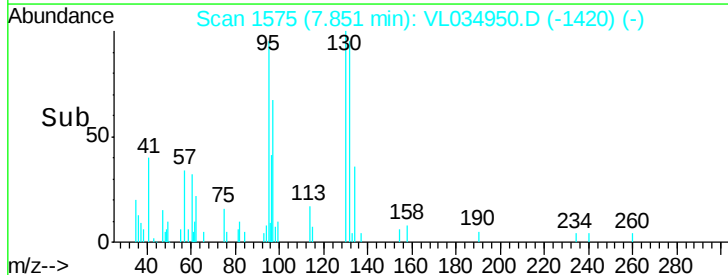
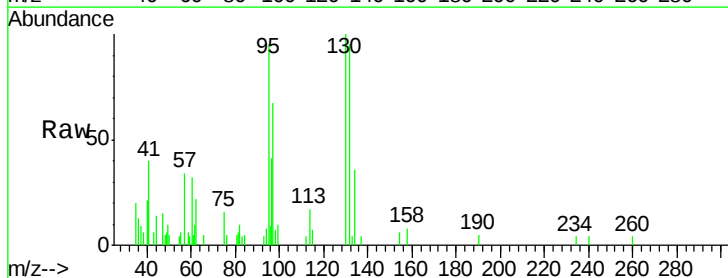
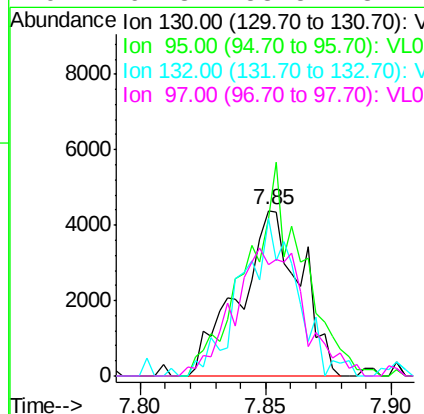
RT: 7.85 min Scan# 1575

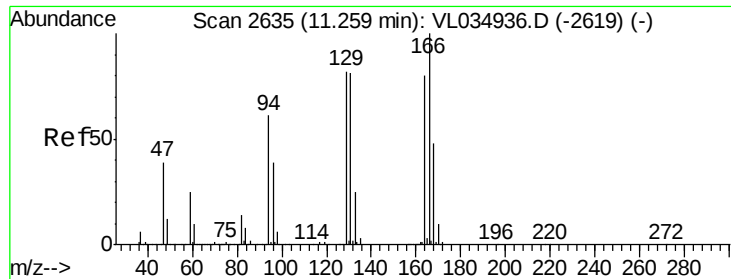
Delta R.T. -0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Tgt Ion:	130	Resp:	7481
Ion Ratio	Lower	Upper	
130	100		
95	95.1	93.4	140.0
132	95.0	76.4	114.6
97	67.3	58.5	87.7





#52

Tetrachloroethene

Concen: 0.043 ppbv m

RT: 11.25 min Scan# 2633

Delta R.T. -0.01 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2020

Tot Ion:164 Resp: 6424

Ion Ratio Lower Upper

164 100

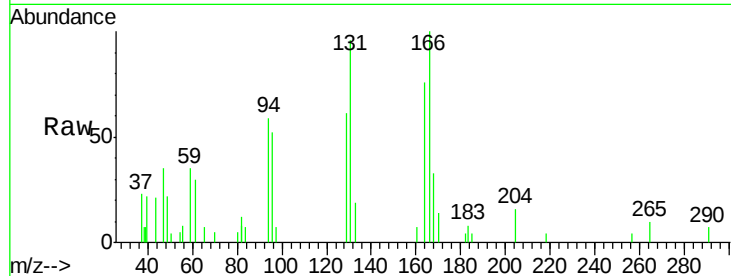
166 132.0 100.7 151.1

129 80.1 83.0 124.4#

131 126.8 81.0 121.4#

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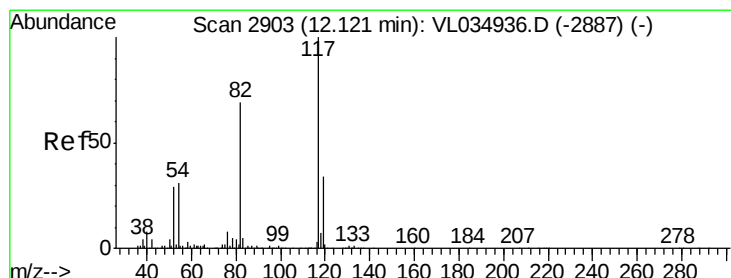
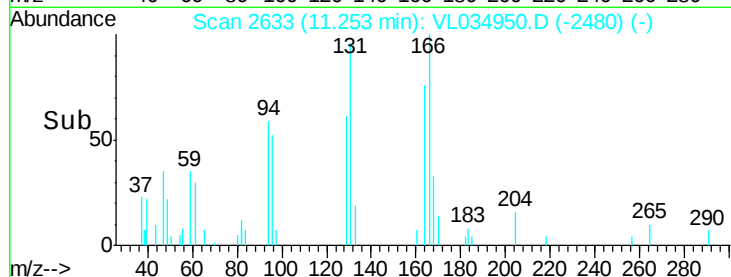
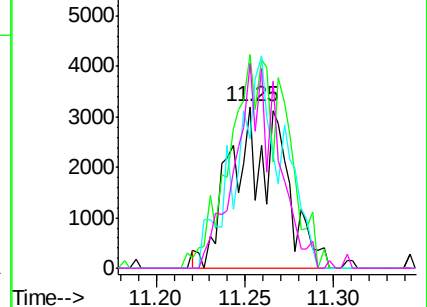


Abundance Ion 163.90 (163.60 to 164.60): V

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# 2904

Delta R.T. 0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

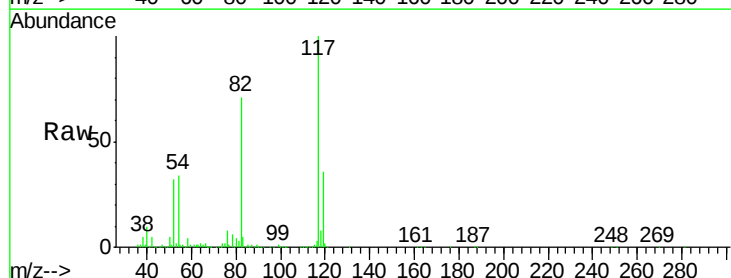
Tgt Ion:117 Resp: 4875817

Ion Ratio Lower Upper

117 100

82 70.7 53.1 79.7

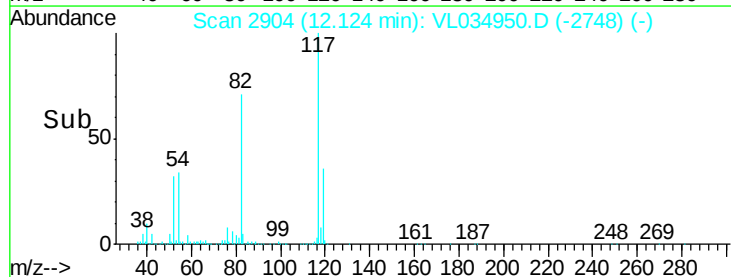
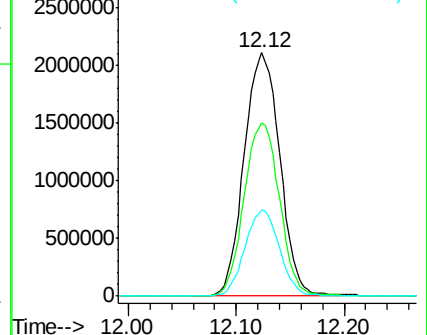
119 34.3 26.7 40.1

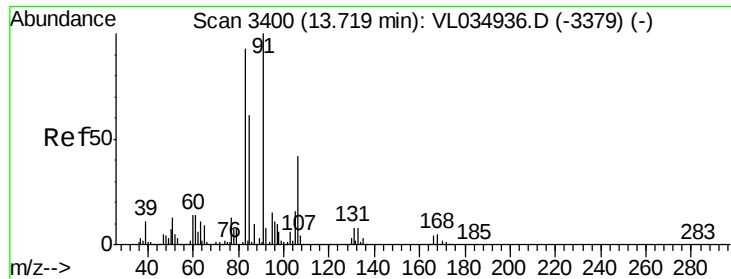


Abundance Ion 117.10 (116.80 to 117.80): V

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: 0.044 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Instrument :

MSVOA_L

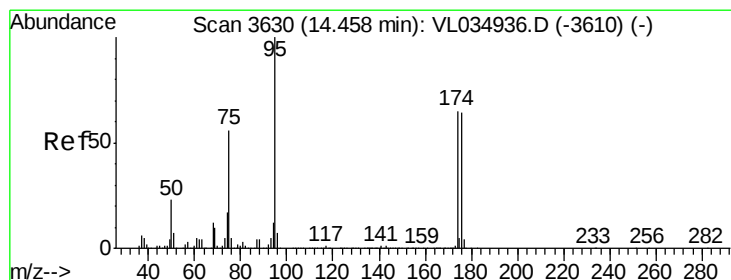
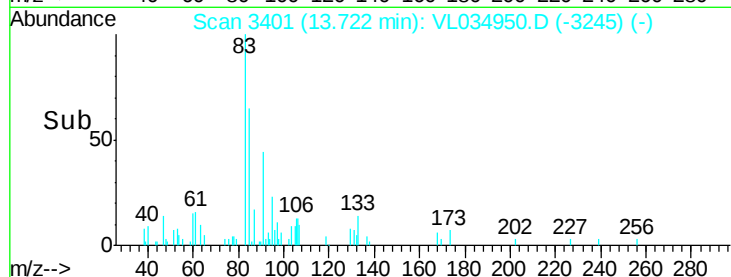
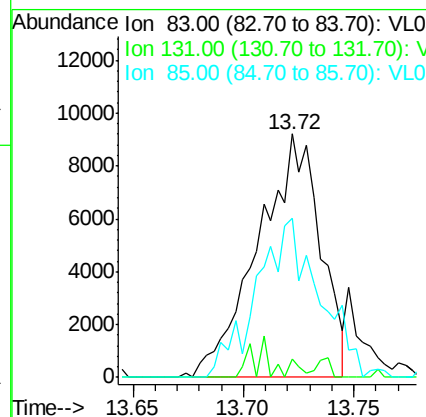
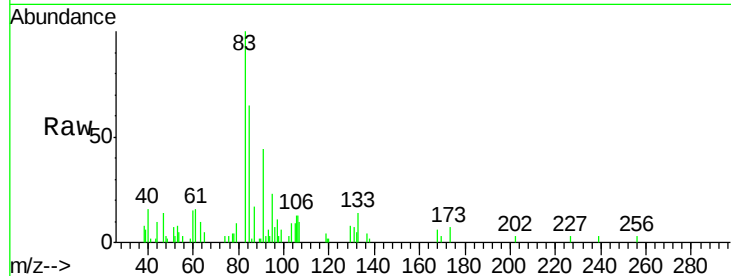
ClientSampleId :

LOD-MDL-AIR-01-QT2-2020

Tot Ion:	83	Resp:	17953
Ion Ratio	Lower	Upper	
83	100		
131	7.1	4.7	14.0
85	66.3	32.5	97.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.078 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL034950.D

Acq: 7 May 2020 1:25

Tgt Ion:	95	Resp:	3977395
Ion Ratio	Lower	Upper	
95	100		
174	66.9	51.5	77.3
175	5.1	3.8	5.8

