

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035776.D
 Acq On : 13 Oct 2020 00:14
 Operator : SY/AP
 Sample : L4214-13 LOD 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:12:06 PM

Quant Time: Oct 13 02:23:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1030075	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	3880435	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	3822195	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2810189	9.81	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	3089	0.044	ppbv #	82
32) 1,1,1-Trichloroethane	6.51	97	8454	0.043	ppbv	96
35) Carbon Tetrachloride	7.02	117	7819	0.039	ppbv #	94
38) Trichloroethene	7.84	130	5157m	0.041	ppbv	
52) Tetrachloroethene	11.24	164	4718m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	12320m	0.044	ppbv	

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

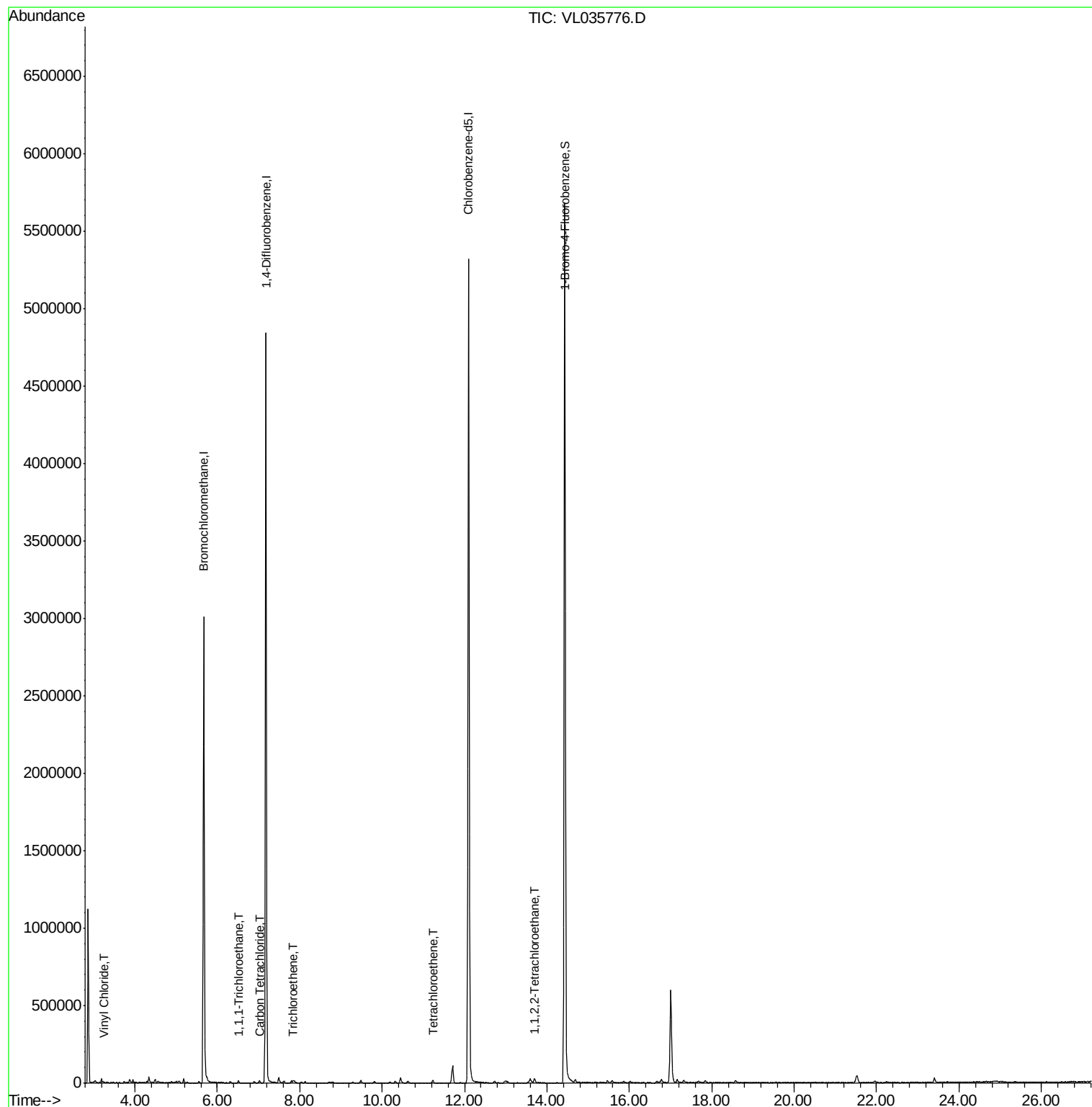
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101220\
Data File : VL035776.D
Acq On : 13 Oct 2020 00:14
Operator : SY/AP
Sample : L4214-13 LOD 0.03
Misc : 400ml/MSVOA L
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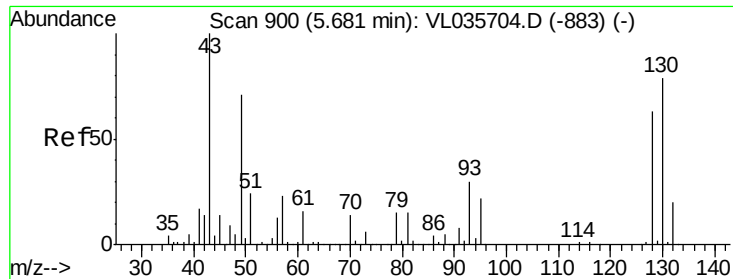
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

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QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 49 Resp: 1030075

Ion Ratio Lower Upper

49 100

128 84.8 43.1 129.4

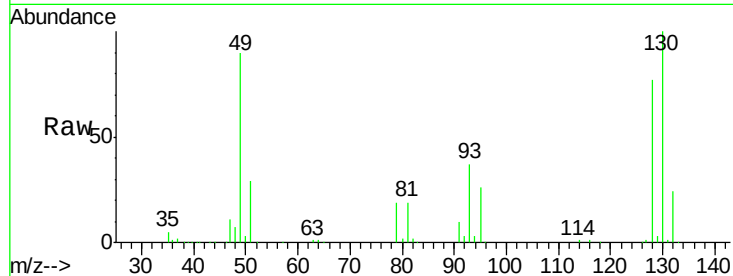
130 109.1 54.9 164.7

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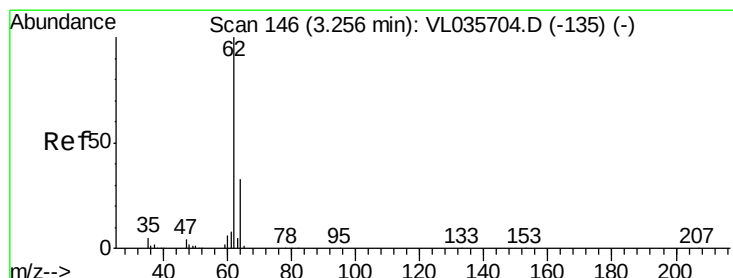
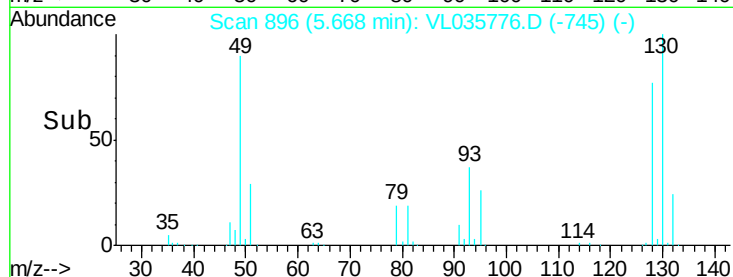
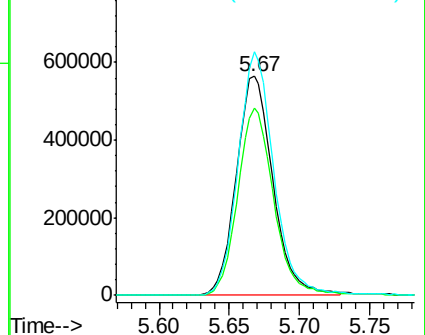
10/14/2020 2:12:06 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.044 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL035776.D

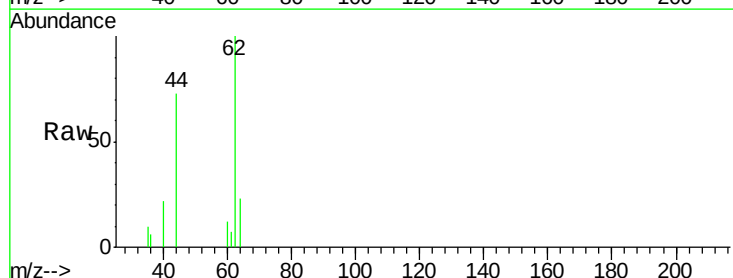
Acq: 13 Oct 2020 00:14

Tgt Ion: 62 Resp: 3089

Ion Ratio Lower Upper

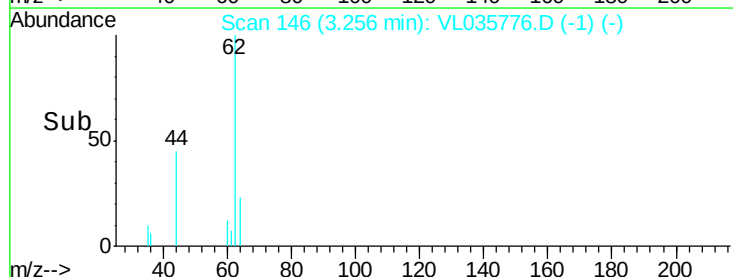
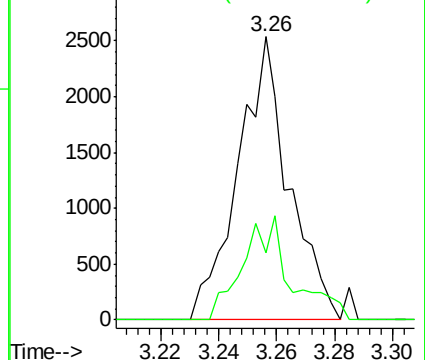
62 100

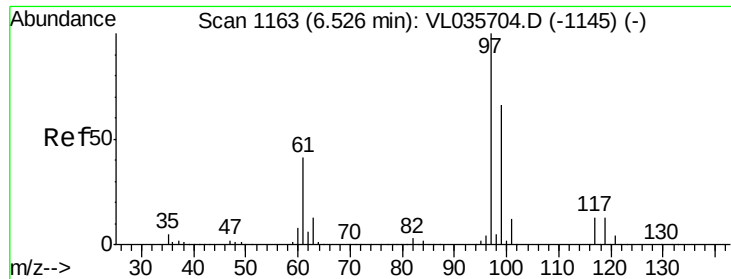
64 23.5 26.8 40.2#



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: 0.043 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Instrument :

MSVOA_L

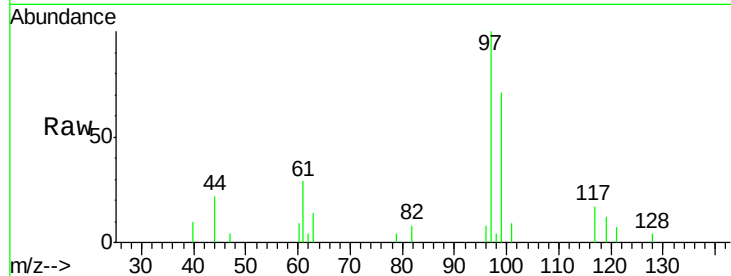
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	97	Resp:	8454
Ion	Ratio	Lower	Upper
97	100		
99	61.8	52.7	79.1
61	38.9	32.7	49.1

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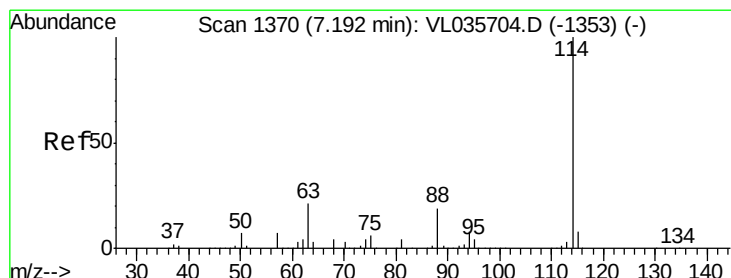
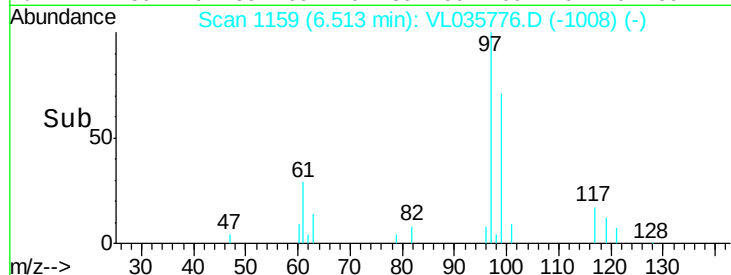
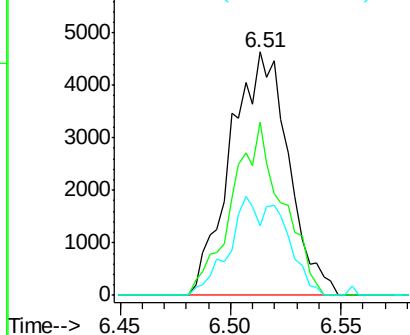


Abundance

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

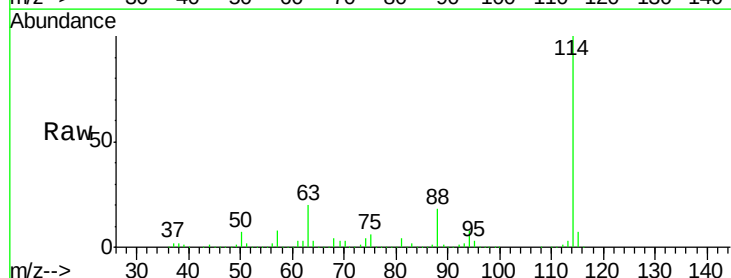
RT: 7.18 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Tgt Ion:	114	Resp:	3880435
Ion	Ratio	Lower	Upper
114	100		
63	19.7	16.1	24.1
88	17.3	14.1	21.1

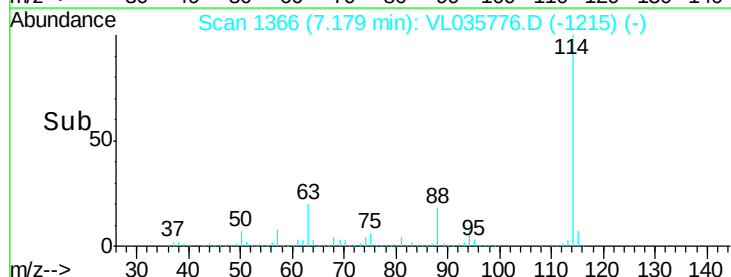
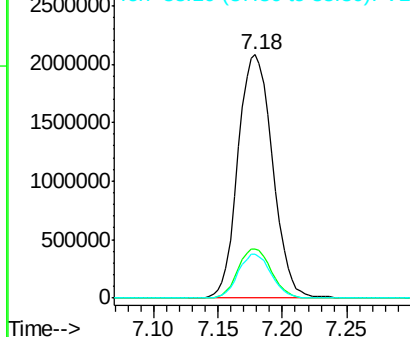


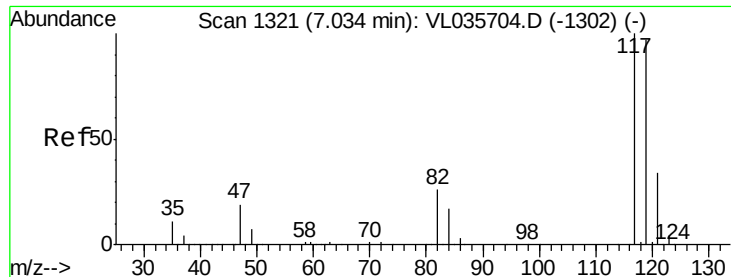
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Instrument :

MSVOA_L

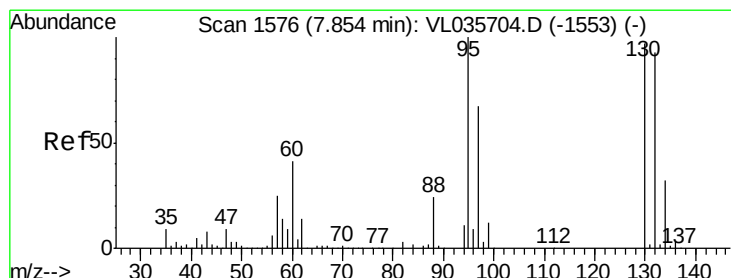
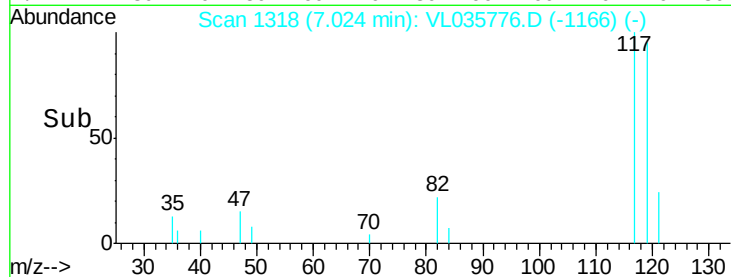
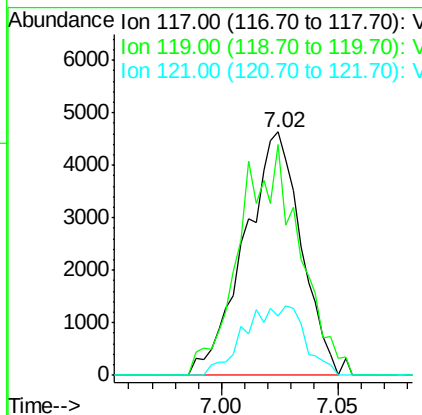
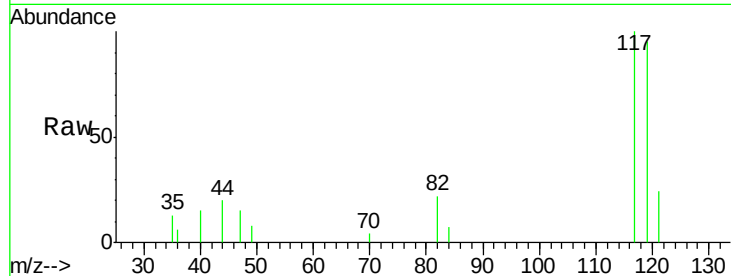
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	117	Resp:	7819
Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.7	116.5
121	24.1	26.9	40.3#

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#38

Trichloroethene

Concen: 0.041 ppbv m

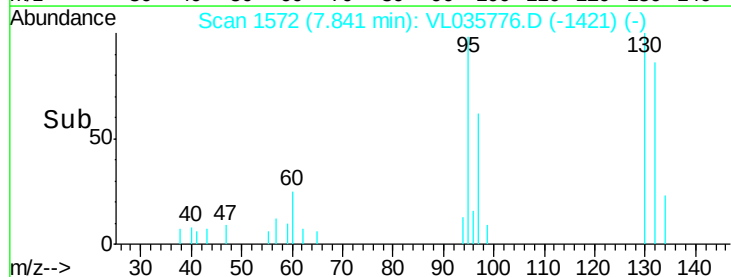
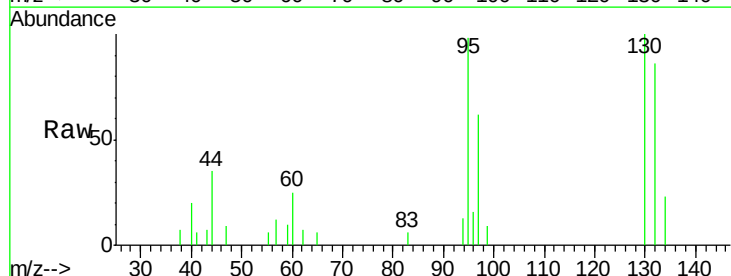
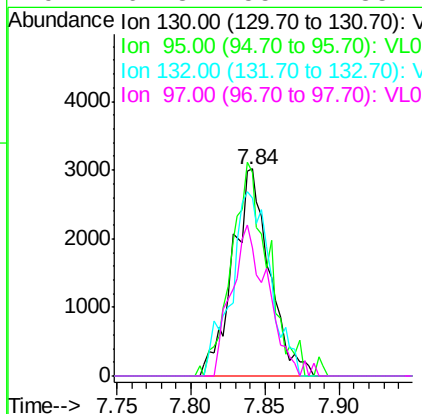
RT: 7.84 min Scan# 1572

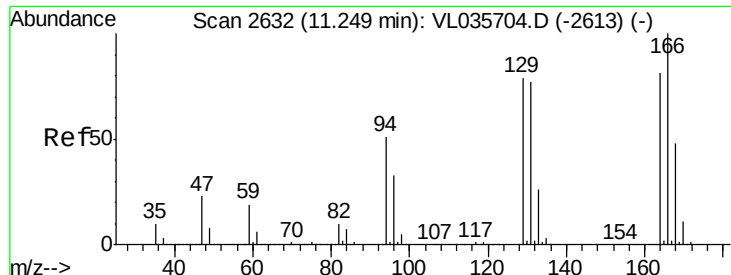
Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Tgt Ion:	130	Resp:	5157
Ion	Ratio	Lower	Upper
130	100		
95	98.4	82.4	123.6
132	86.0	76.8	115.2
97	61.8	55.4	83.2





#52

Tetrachloroethene

Concen: 0.039 ppbv m

RT: 11.24 min Scan# 2629

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:164 Resp: 4718

Ion Ratio Lower Upper

164 100

166 129.7 98.7 148.1

129 80.9 78.4 117.6

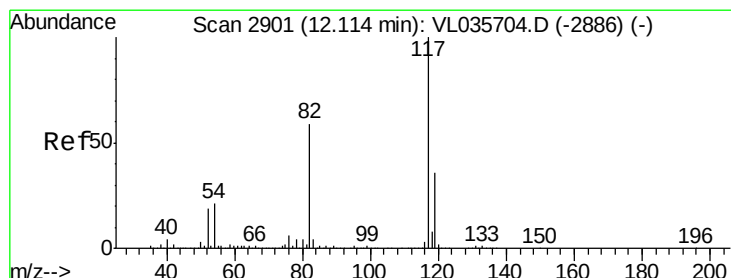
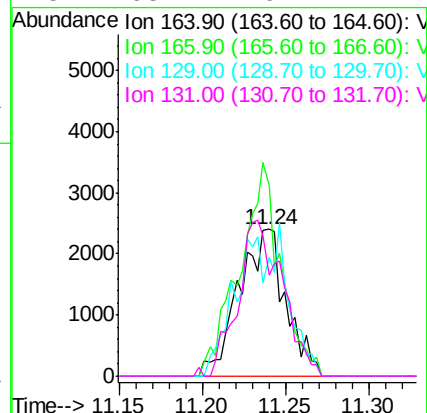
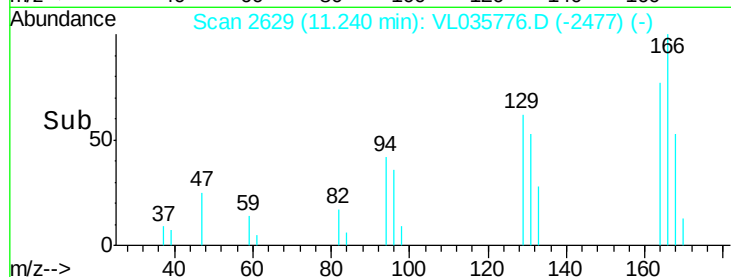
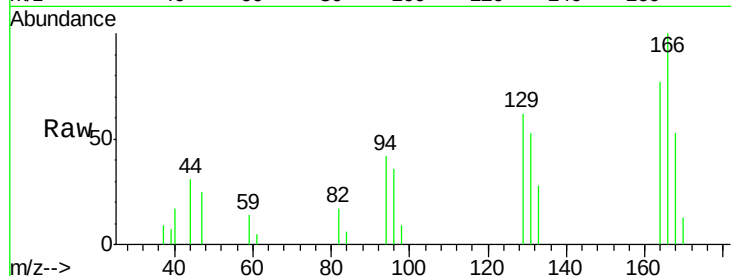
131 68.7 76.2 114.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

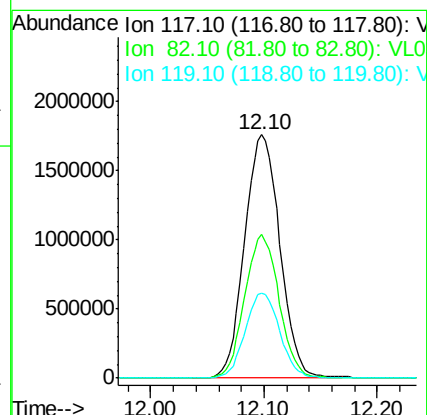
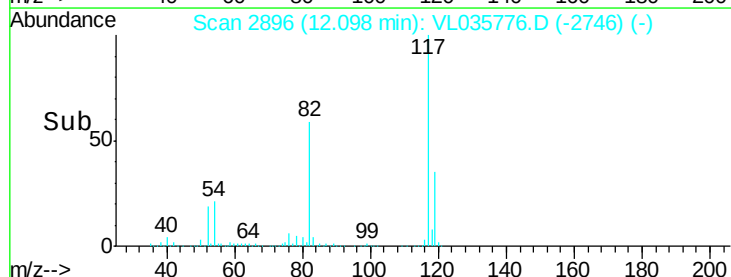
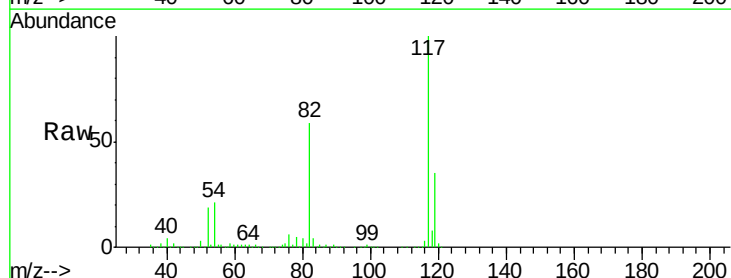
Tgt Ion:117 Resp: 3822195

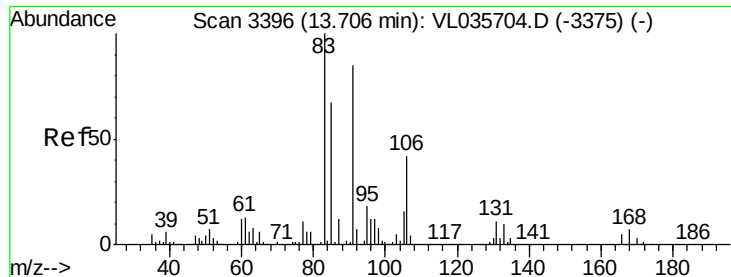
Ion Ratio Lower Upper

117 100

82 57.7 46.1 69.1

119 34.5 28.0 42.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.044 ppbv m

RT: 13.70 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Instrument :

MSVOA_L

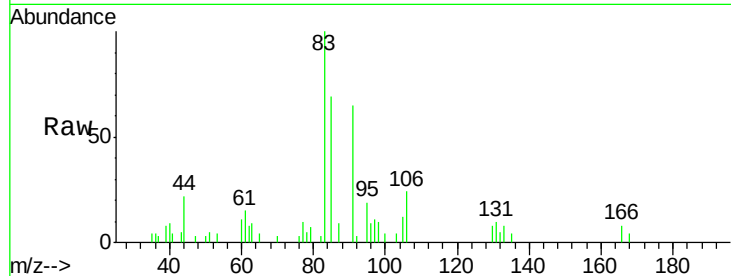
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

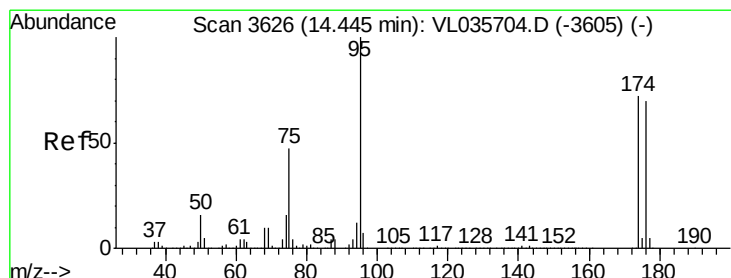
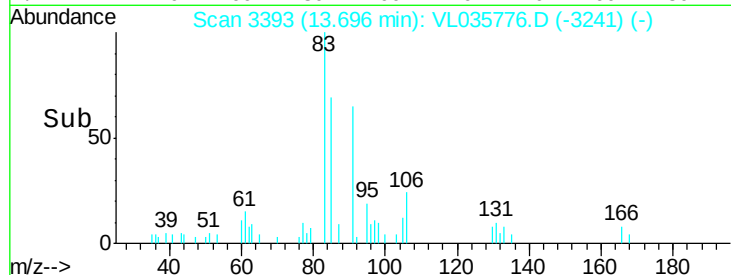
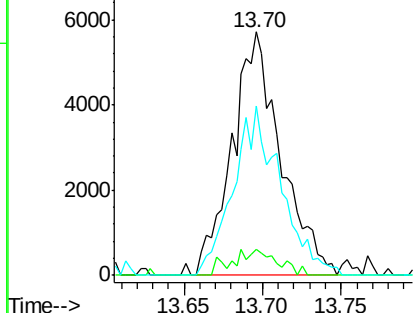
Tot Ion:	83	Resp:	12320
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.3	16.1
85	0.0	33.4	100.2#

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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: 9.812 ppbv

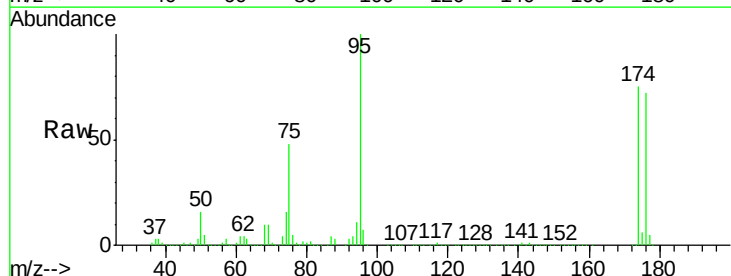
RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL035776.D

Acq: 13 Oct 2020 00:14

Tgt Ion:	95	Resp:	2810189
Ion Ratio	Lower	Upper	
95	100		
174	77.7	59.6	89.4
175	5.6	4.2	6.4



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

