

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035172.D
 Acq On : 8 Jul 2020 5:09
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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 7/9/2020 12:02:36 PM

Quant Time: Jul 08 06:56:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 06:56:20 2020
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1232638	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2932416	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2680121	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2270438	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.21	62	9079m	0.125	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	21823m	0.124	ppbv	
35) Carbon Tetrachloride	7.01	117	20388m	0.116	ppbv	
38) Trichloroethene	7.84	130	8610m	0.098	ppbv	
52) Tetrachloroethene	11.25	164	9155m	0.115	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	23534m	0.109	ppbv	

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

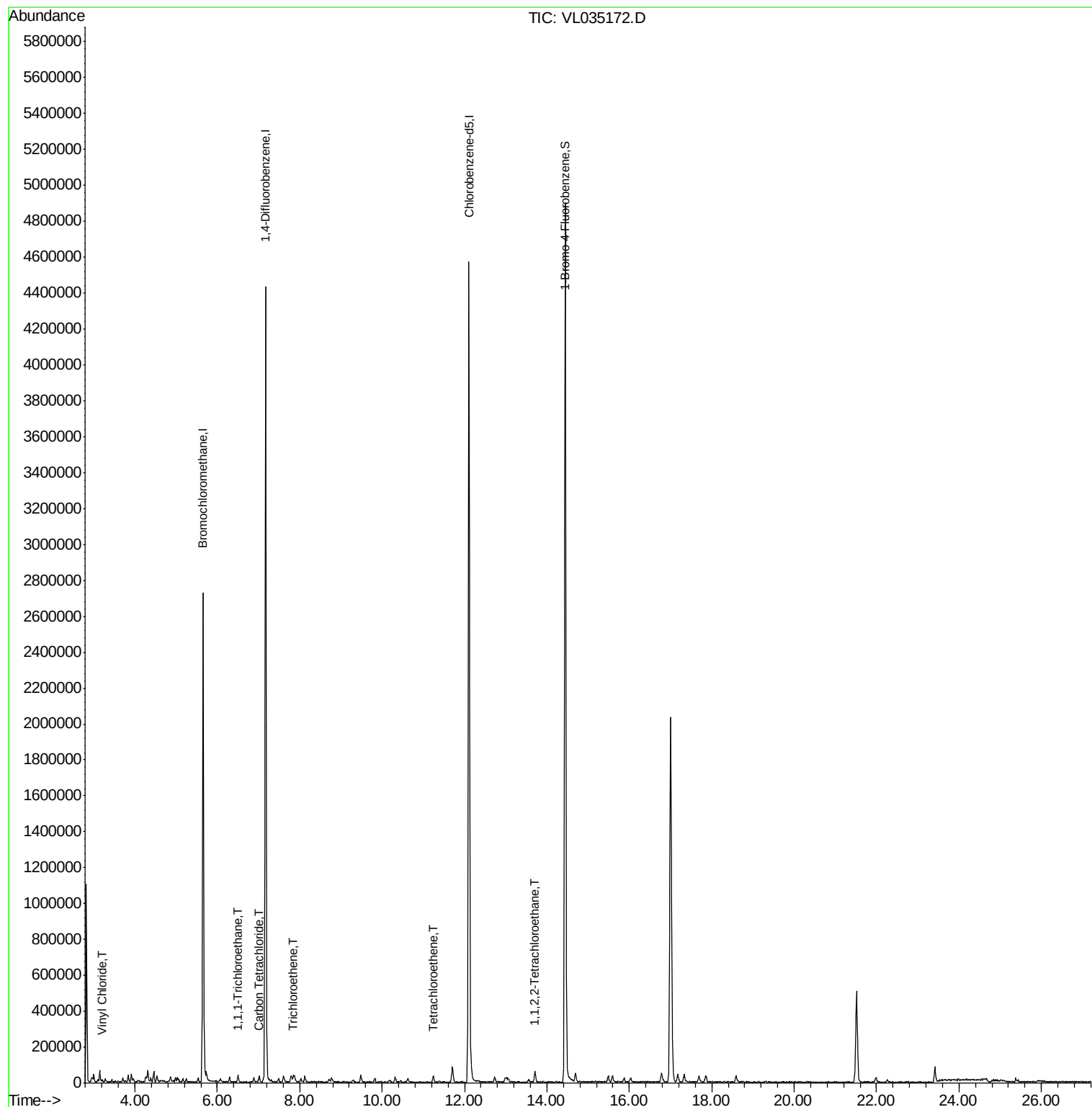
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070820\
Data File : VL035172.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

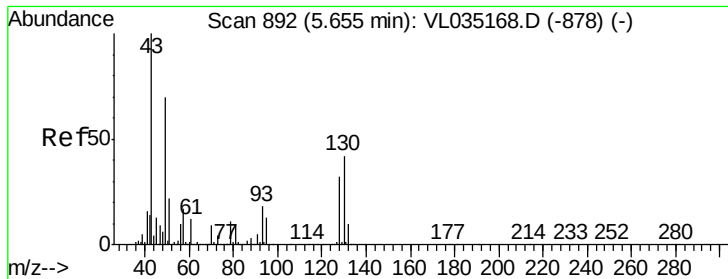
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Jul 08 06:56:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 06:17:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1232638

Ion Ratio Lower Upper

49 100

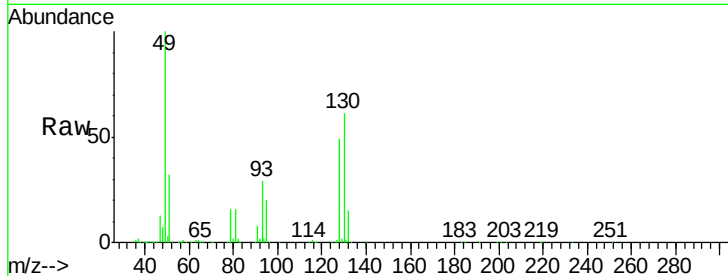
128 48.5 23.8 71.4

130 62.4 29.9 89.8

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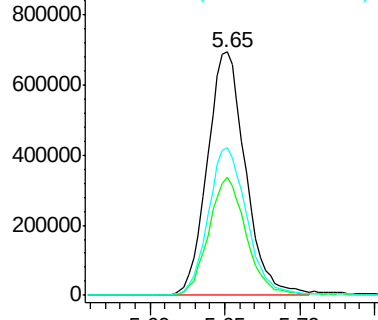
7/9/2020 12:02:36 PM



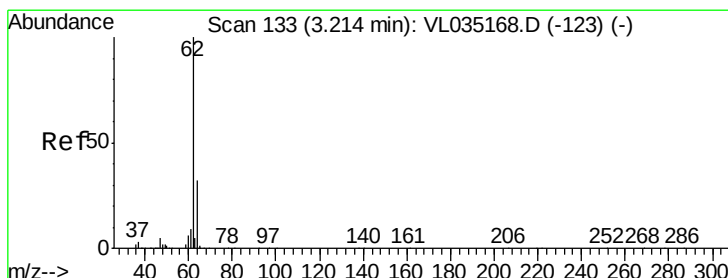
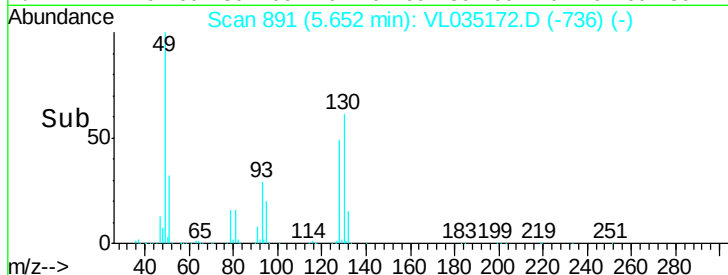
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#5

Vinyl Chloride

Concen: 0.125 ppbv m

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035172.D

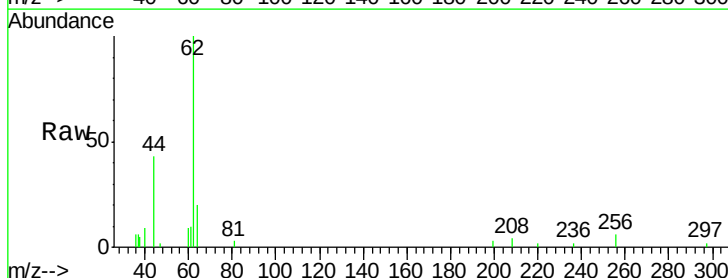
Acq: 8 Jul 2020 5:09

Tgt Ion: 62 Resp: 9079

Ion Ratio Lower Upper

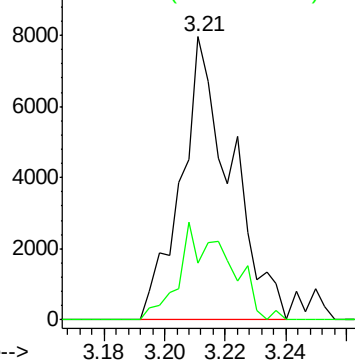
62 100

64 19.9 25.9 38.9#

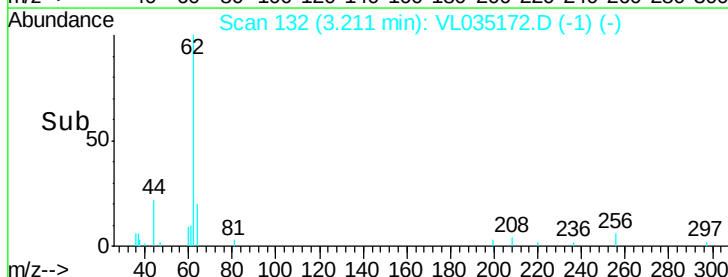


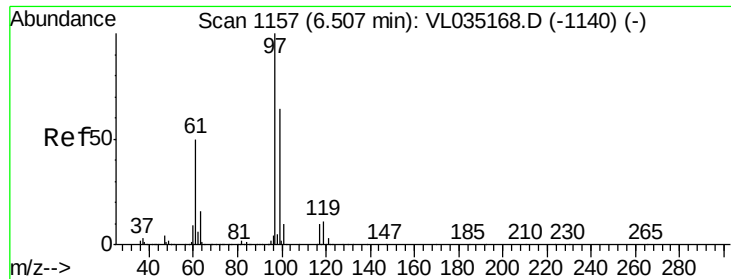
Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->





#32

1,1,1-Trichloroethane

Concen: 0.124 ppbv m

RT: 6.50 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

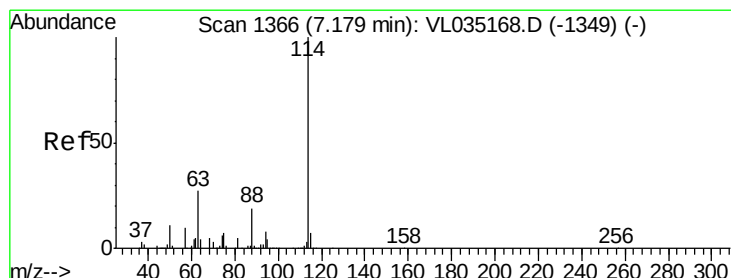
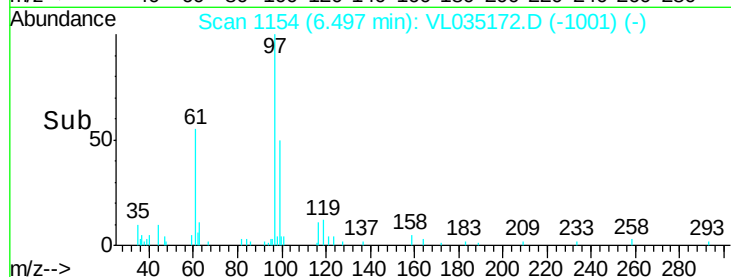
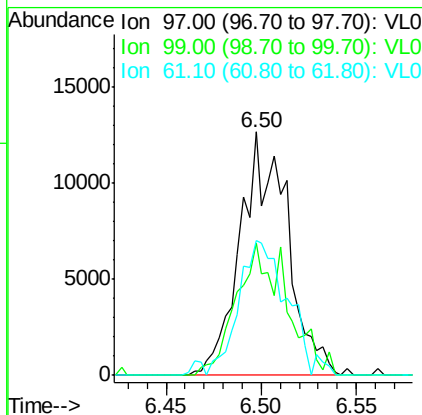
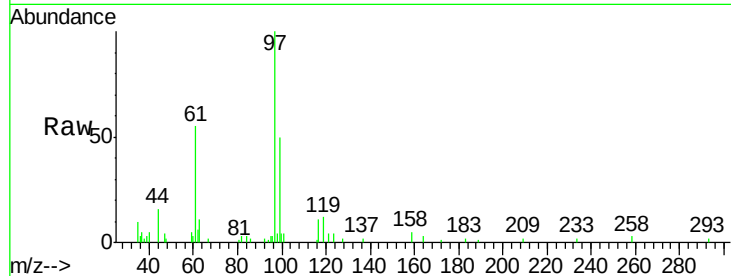
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	21823
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.2	76.8#
61	0.0	40.9	61.3#

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

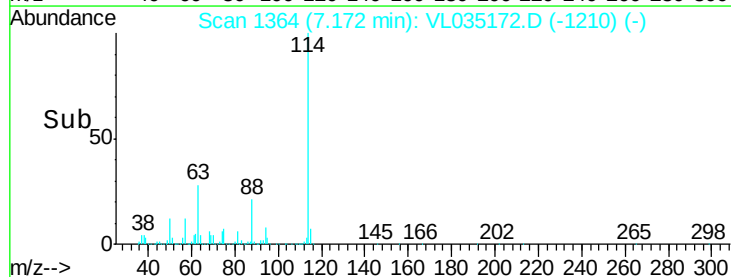
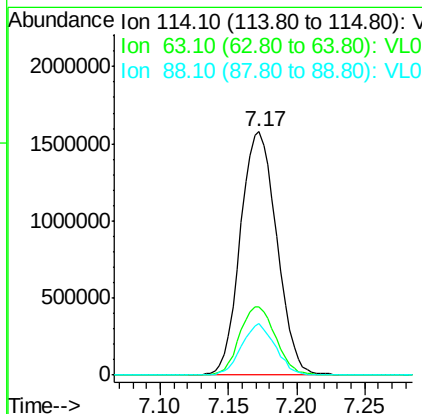
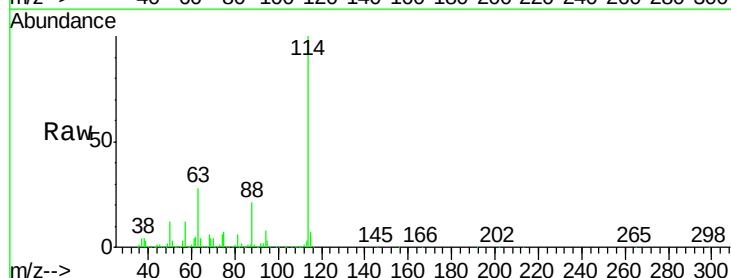
RT: 7.17 min Scan# 1364

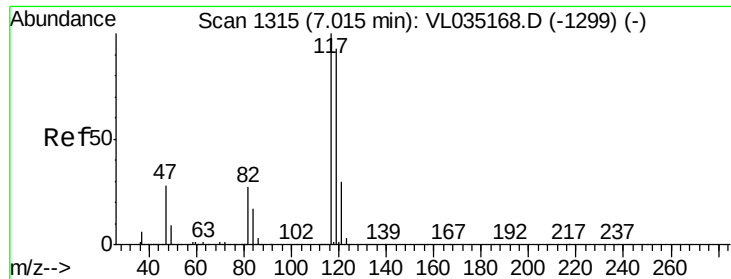
Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Tgt Ion:	114	Resp:	2932416
Ion Ratio	Lower	Upper	
114	100		
63	27.9	22.0	33.0
88	19.6	15.4	23.0





#35

Carbon Tetrachloride

Concen: 0.116 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

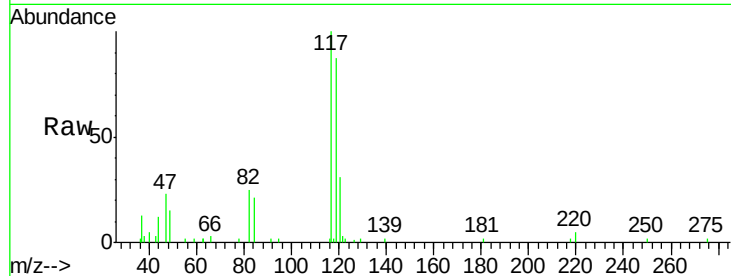
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	20388
Ion Ratio	Lower	Upper	
117	100		
119	86.6	74.8	112.2
121	30.7	24.2	36.2

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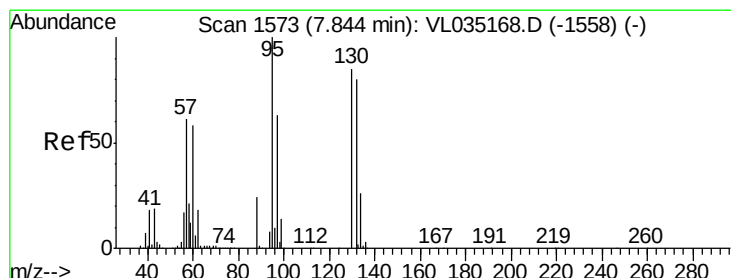
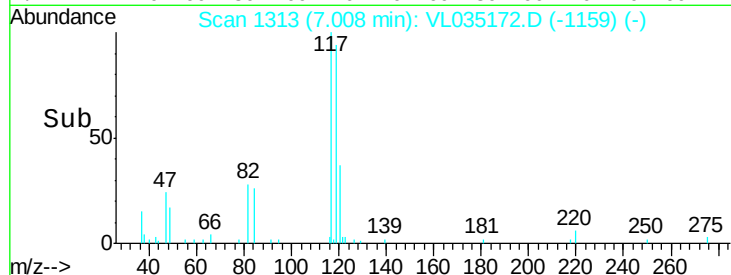
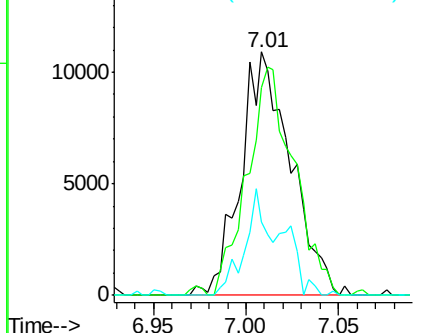


Abundance

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: 0.098 ppbv m

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Tgt Ion:	130	Resp:	8610
Ion Ratio	Lower	Upper	
130	100		
95	102.7	93.8	140.8
132	86.4	75.0	112.4
97	39.4	59.5	89.3#

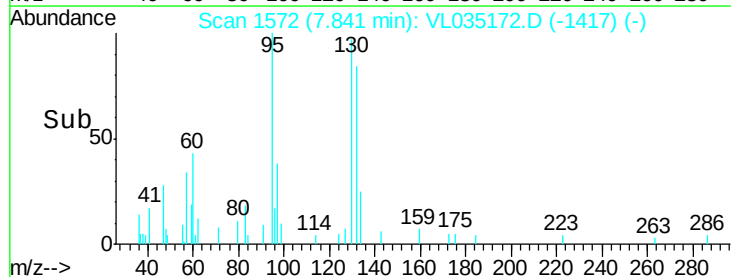
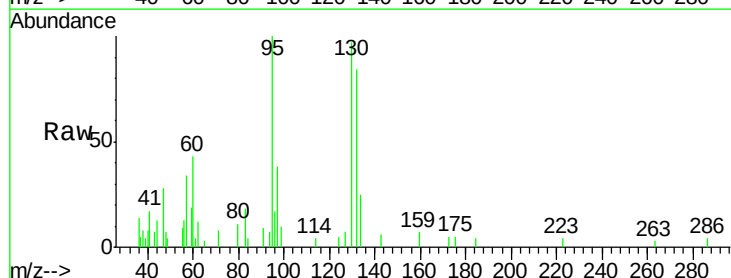
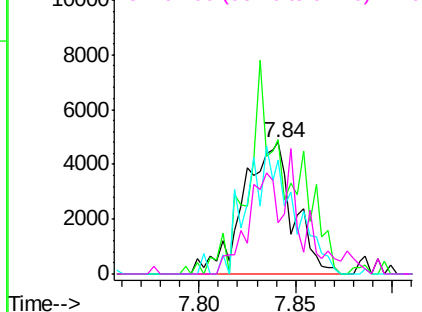
Abundance

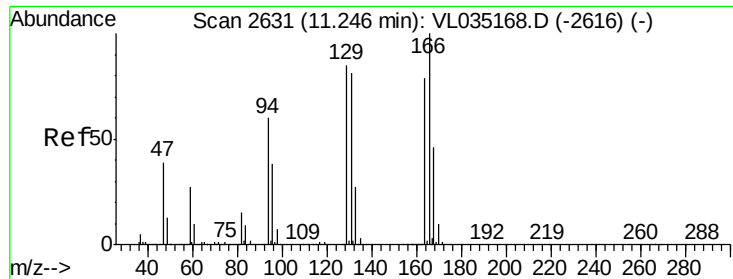
Ion 130.00 (129.70 to 130.70): V

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: 0.115 ppbv m

RT: 11.25 min Scan# 2632

Delta R.T. 0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 9155

Ion Ratio Lower Upper

164 100

166 77.8 100.7 151.1#

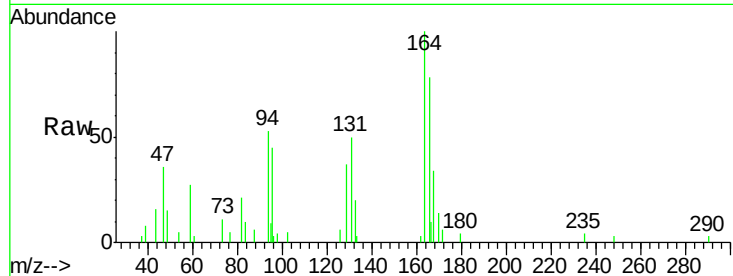
129 36.8 85.8 128.6#

131 49.7 82.0 123.0#

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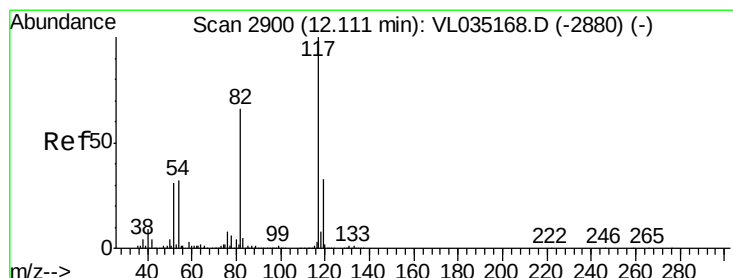
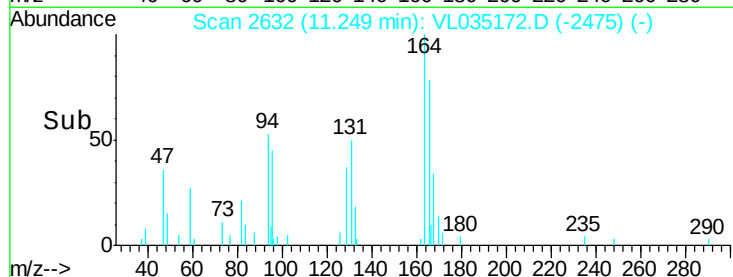
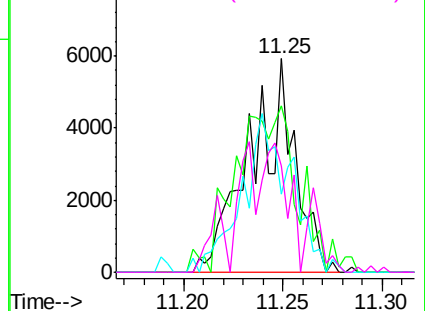


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

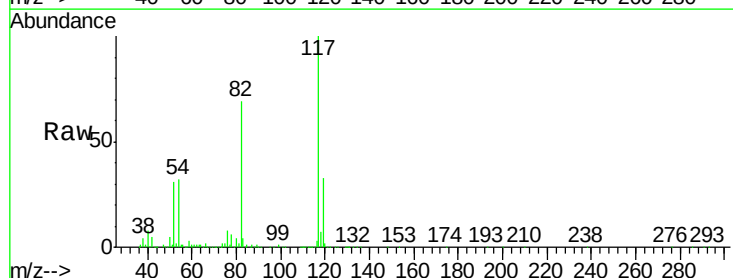
Tgt Ion:117 Resp: 2680121

Ion Ratio Lower Upper

117 100

82 69.5 52.3 78.5

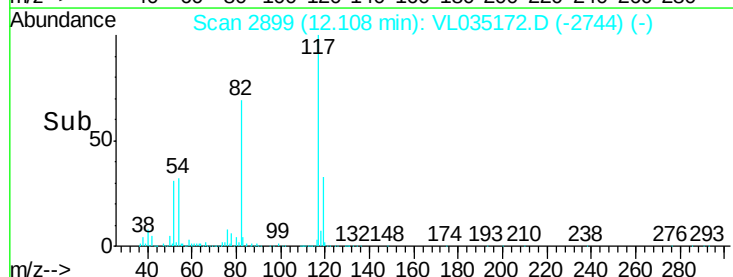
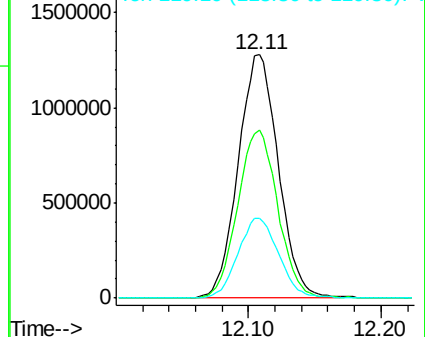
119 33.6 24.9 37.3

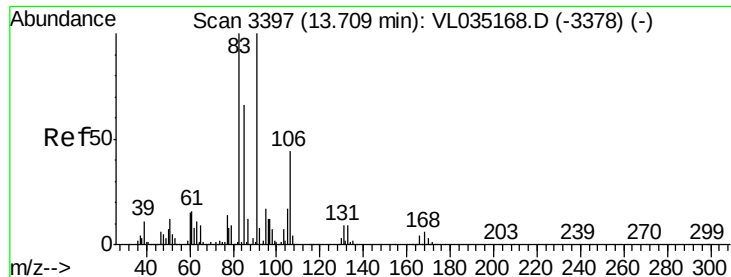


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





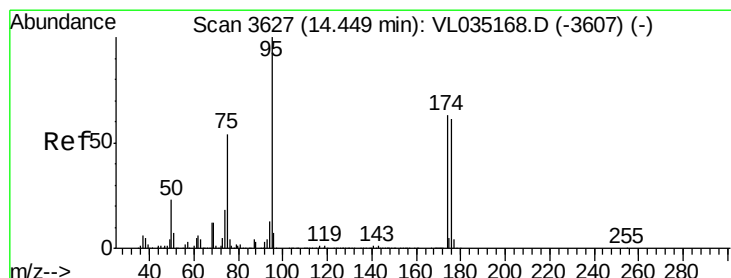
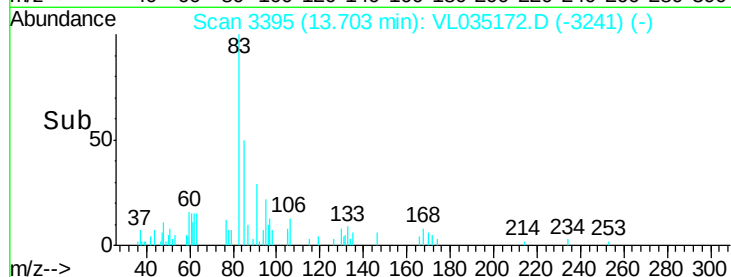
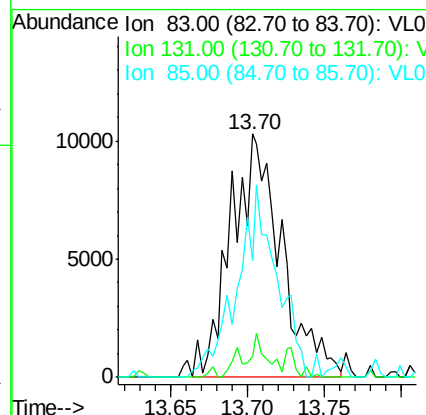
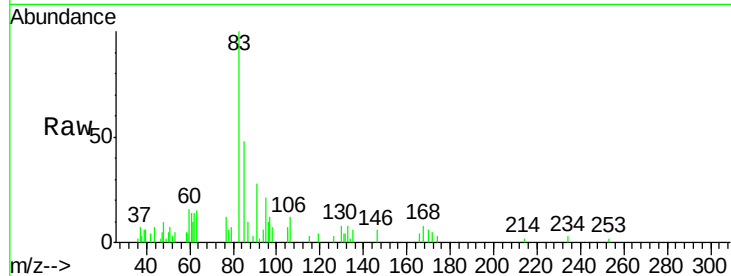
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.109 ppbv m
 RT: 13.70 min Scan# 3395
 Delta R.T. -0.01 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.7	14.0
85	64.6	33.0	99.0

Manual Integrations
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.194 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.01 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.8	52.2	78.2
175	4.7	4.0	6.0

