

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035237.D
 Acq On : 29 Jul 2020 5:16
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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 7/30/2020 6:10:30 PM

Quant Time: Jul 29 06:19:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	5.66	49	1352512	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3295358	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3039276	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2489001	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	9363m	0.104	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	23434m	0.111	ppbv	
35) Carbon Tetrachloride	7.02	117	21917m	0.102	ppbv	
38) Trichloroethene	7.84	130	9150m	0.093	ppbv	
52) Tetrachloroethene	11.25	164	7399m	0.082	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	23946m	0.095	ppbv	

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

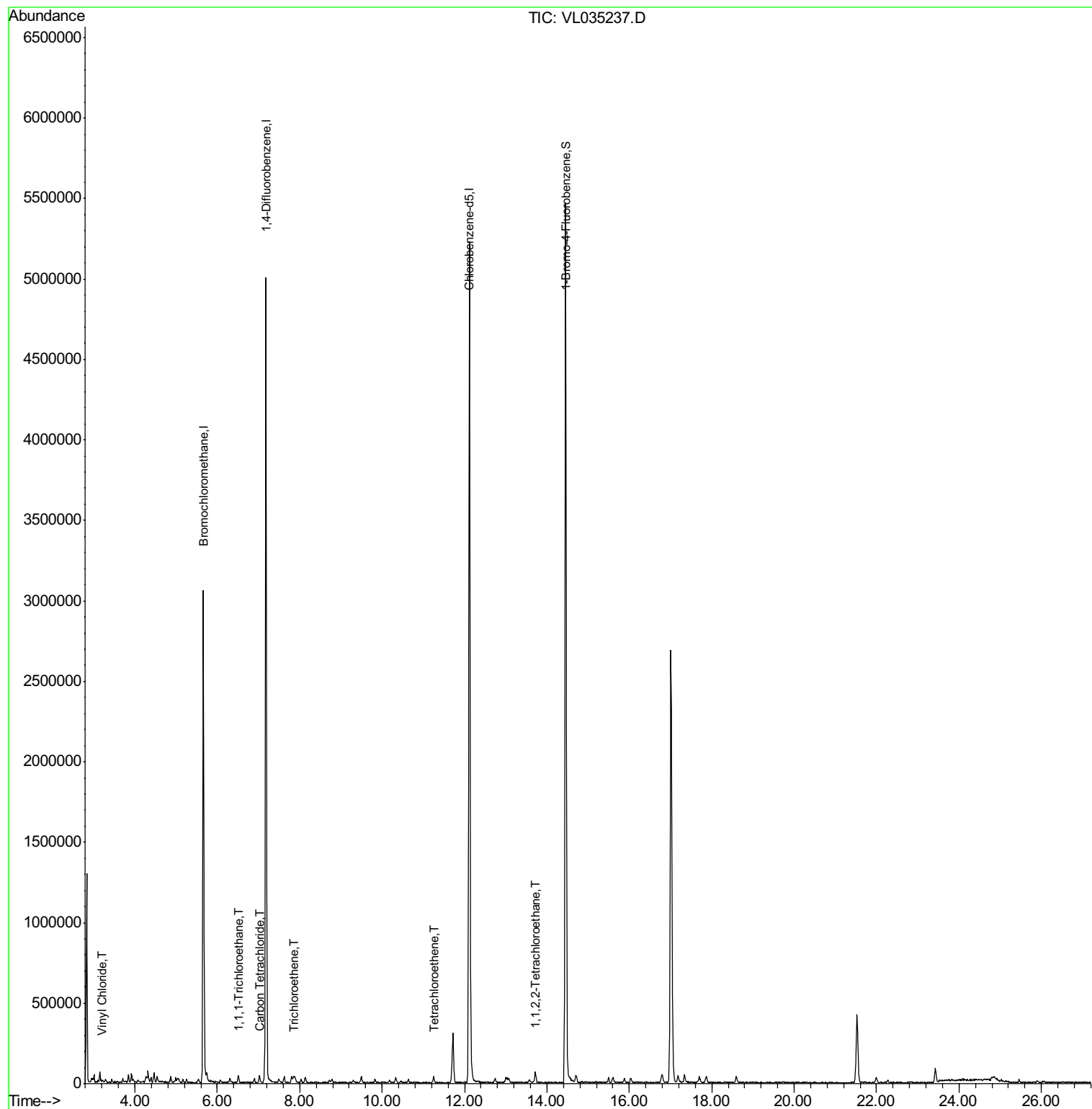
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
Data File : VL035237.D
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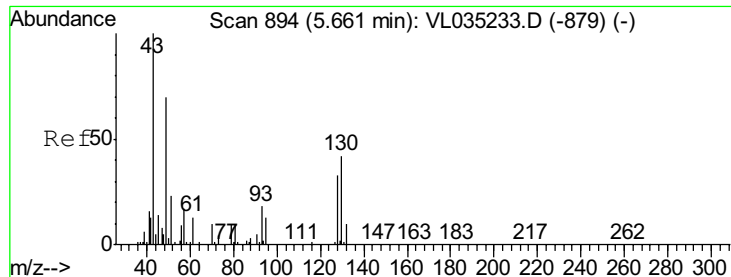
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
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#1

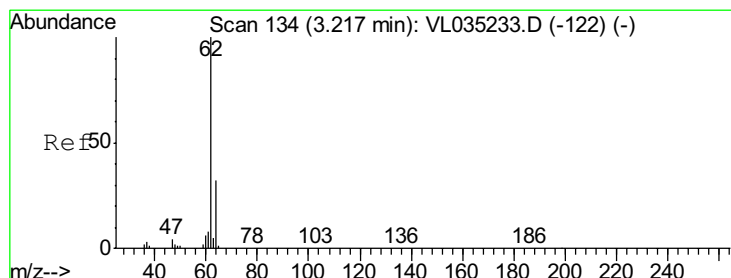
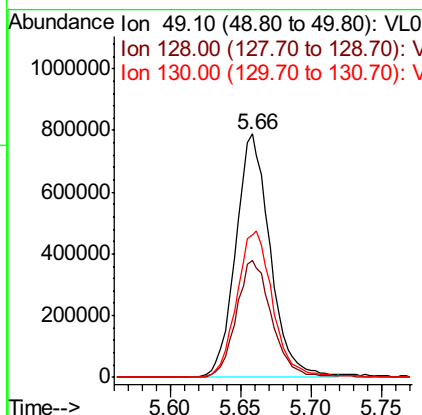
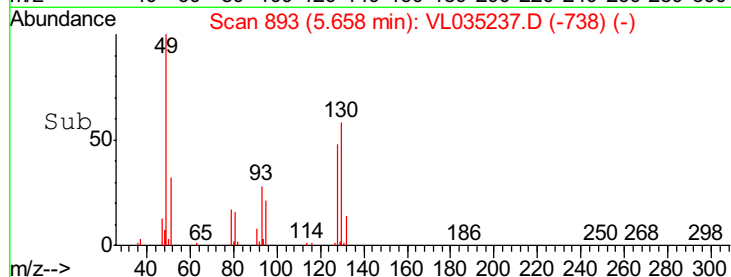
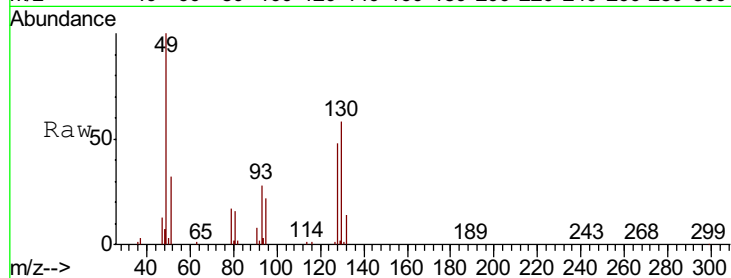
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.1

Tot Ion: 49 Resp: 1352512
 Ion Ratio Lower Upper
 49 100
 128 49.8 24.0 72.0
 130 63.0 30.7 92.1

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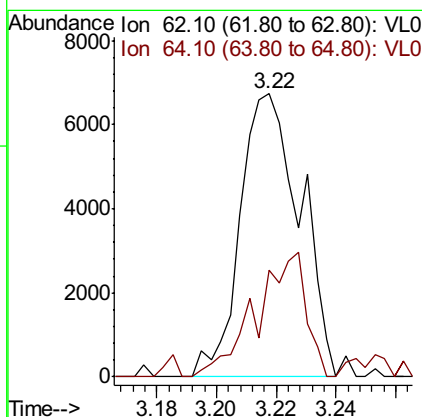
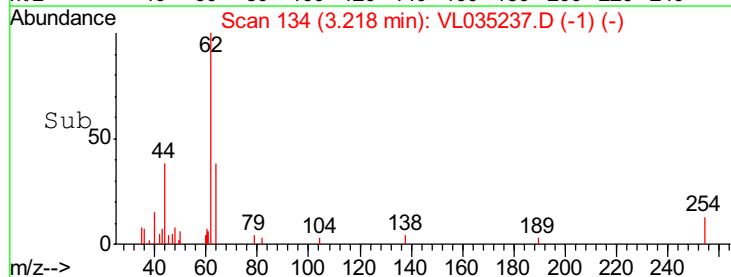
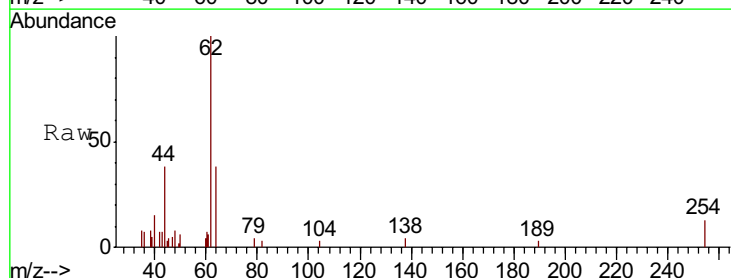
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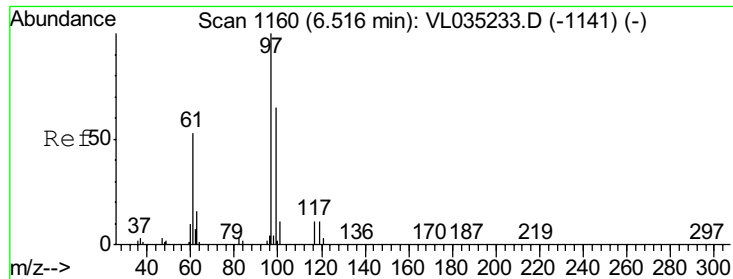


#5

Vinyl Chloride
 Concen: 0.104 ppbv m
 RT: 3.22 min Scan# 134
 Delta R.T. 0.00 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Tgt Ion: 62 Resp: 9363
 Ion Ratio Lower Upper
 62 100
 64 37.6 25.8 38.6





#32

1,1,1-Trichloroethane

Concen: 0.111 ppbv m

RT: 6.51 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 97 Resp: 23434

Ion Ratio Lower Upper

97 100

99 64.9 51.4 77.0

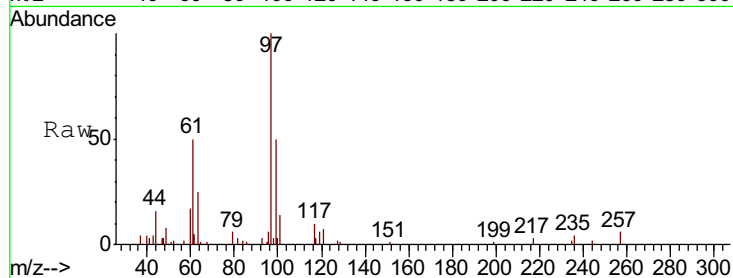
61 0.0 40.4 60.6#

Manual Integrations

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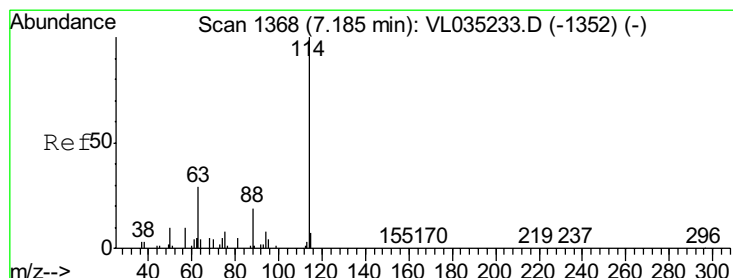
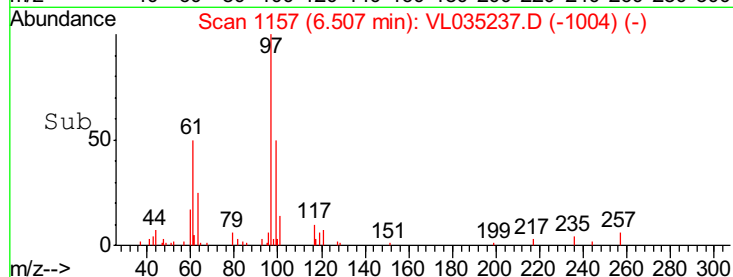
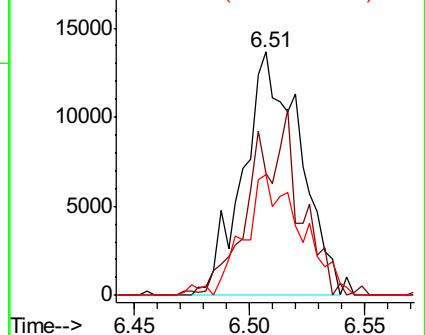
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Abundance Ion 97.00 (96.70 to 97.70): VL0

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# 1367

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

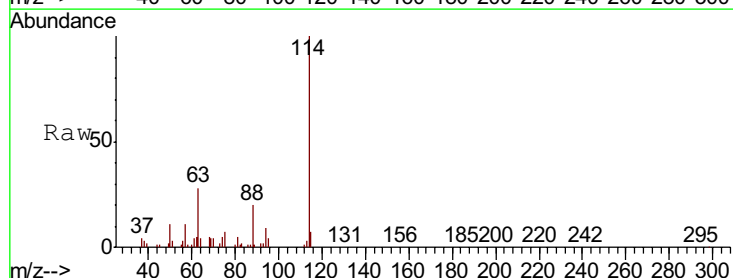
Tgt Ion: 114 Resp: 3295358

Ion Ratio Lower Upper

114 100

63 27.6 22.2 33.2

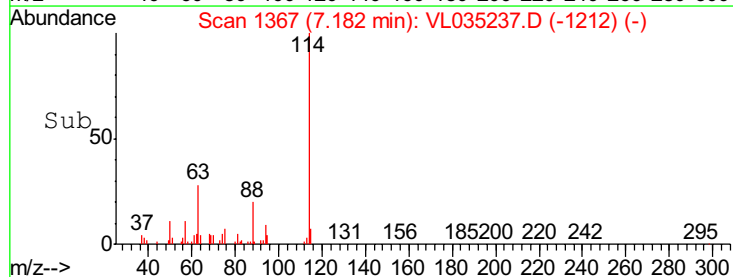
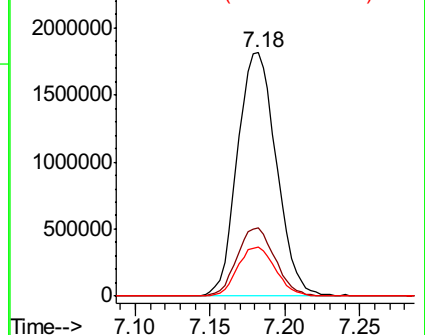
88 19.6 15.4 23.0

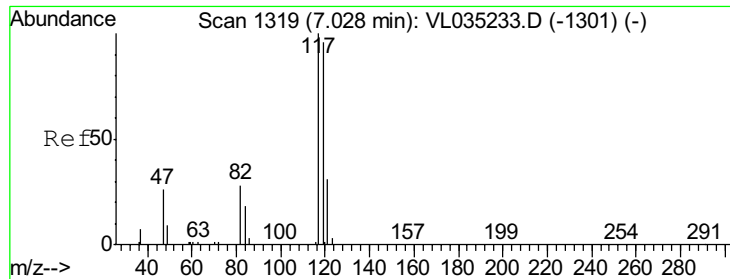


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

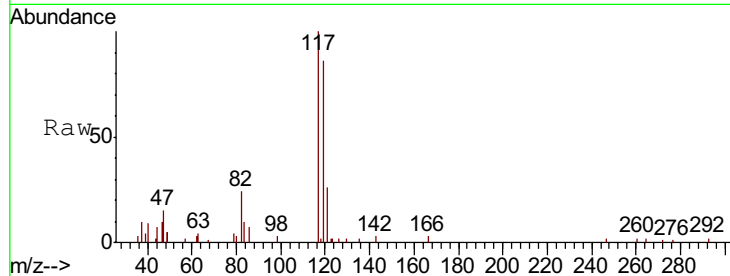
Carbon Tetrachloride
 Concen: 0.102 ppbv m
 RT: 7.02 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

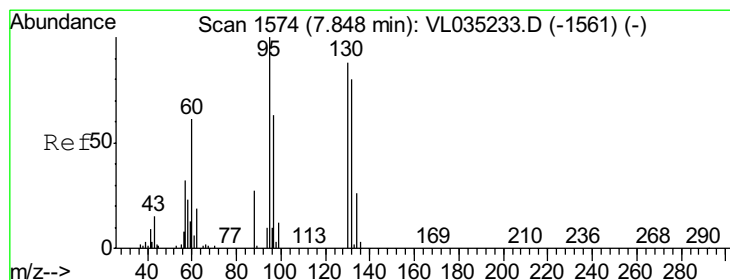
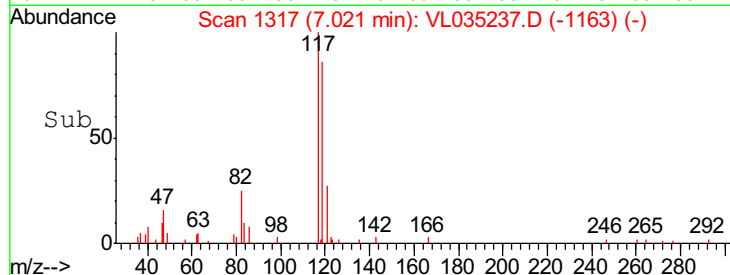
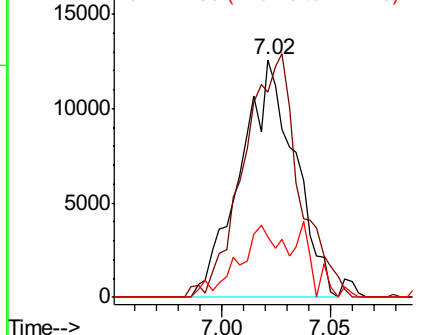
Tot Ion	Ratio	Lower	Upper
117	100		
119	86.1	76.8	115.2
121	25.7	24.5	36.7

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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

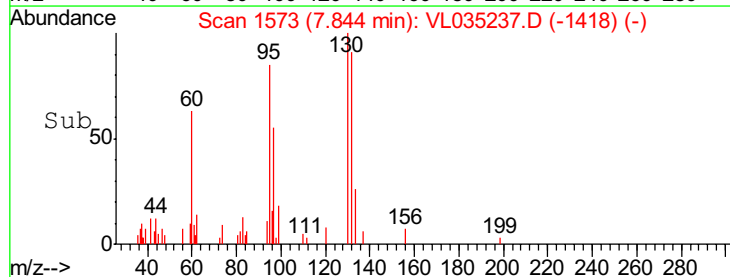
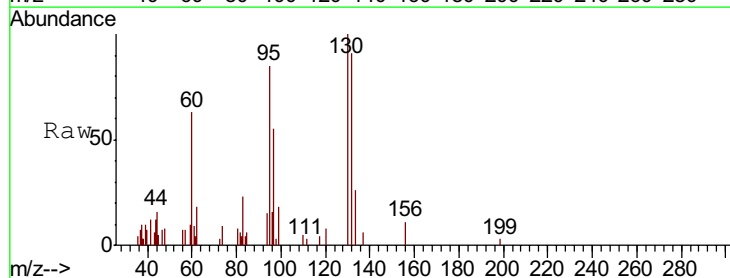
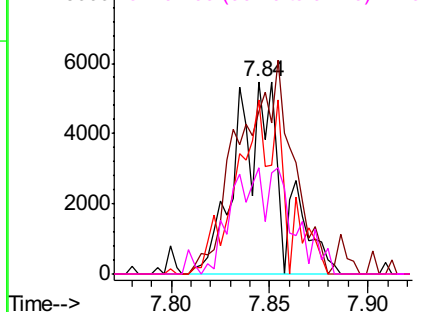


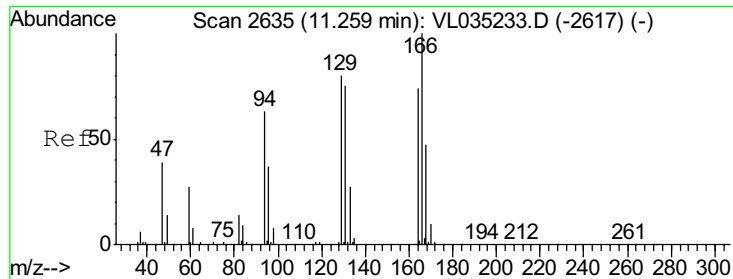
#38

Trichloroethene
 Concen: 0.093 ppbv m
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL035237.D
 Acq: 29 Jul 2020 5:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	84.6	90.7	136.1#
132	90.9	72.9	109.3
97	55.5	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: 0.082 ppbv m

RT: 11.25 min Scan# 2633

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7399

Ion Ratio Lower Upper

164 100

166 100.1 107.5 161.3#

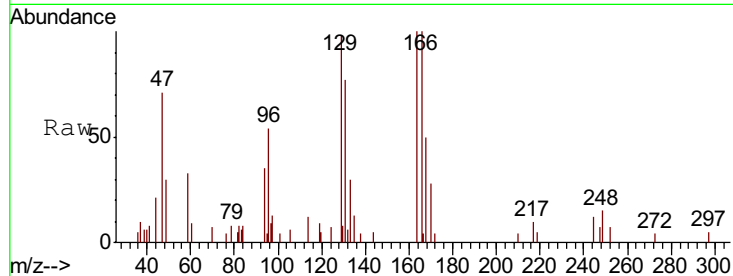
129 98.3 86.0 129.0

131 6.3 80.3 120.5#

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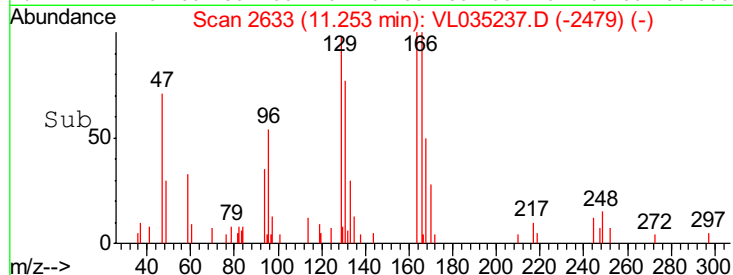
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

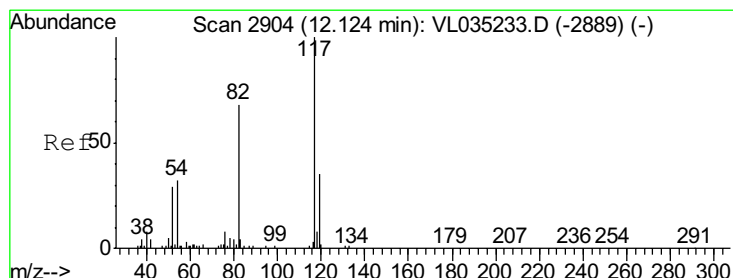
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

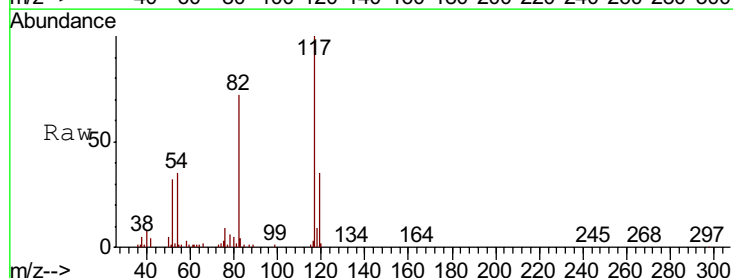
Tgt Ion:117 Resp: 3039276

Ion Ratio Lower Upper

117 100

82 69.3 52.4 78.6

119 33.8 24.6 36.8

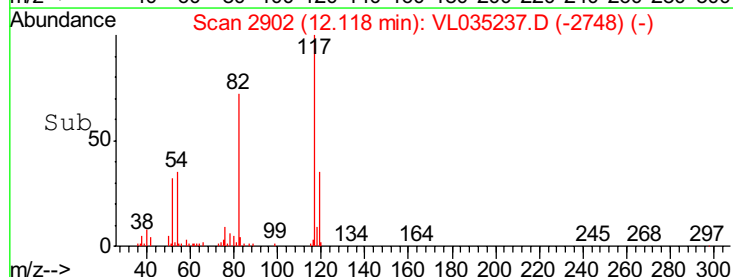


Abundance Ion 117.10 (116.80 to 117.80): V

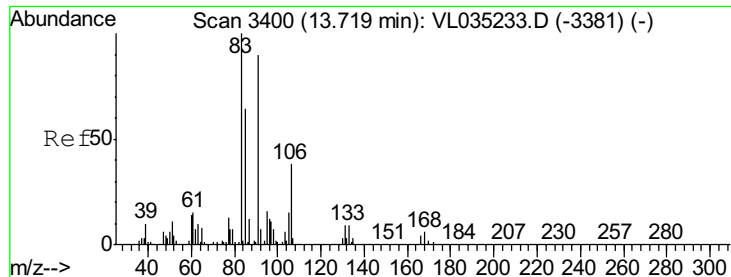
Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

Time-->



Time-->



#63

1,1,2,2-Tetrachloroethane

Concen: 0.095 ppbv m

RT: 13.71 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 23946

Ion Ratio Lower Upper

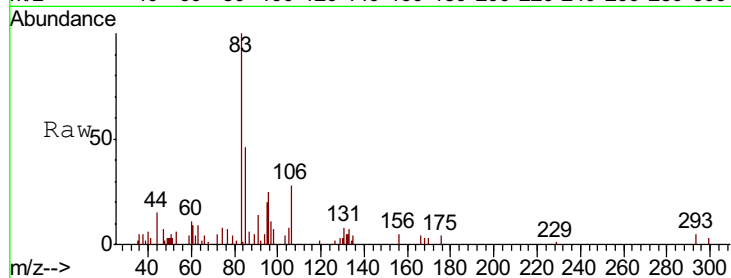
83 100

131 0.0 4.6 13.8#

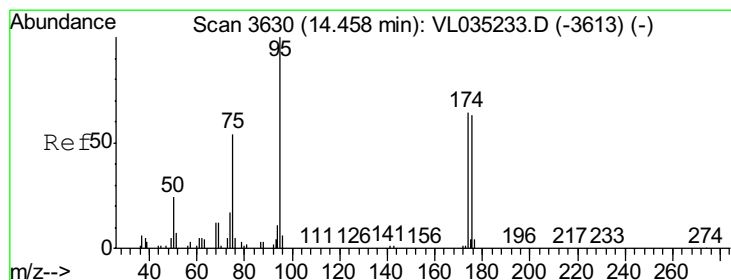
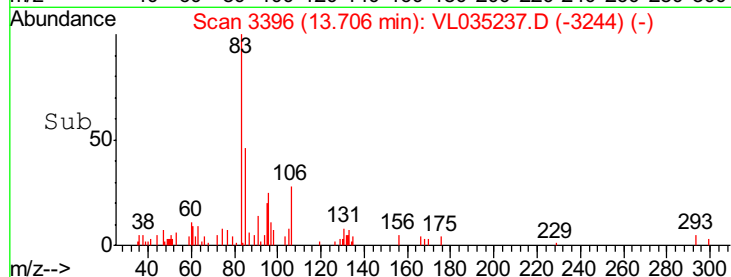
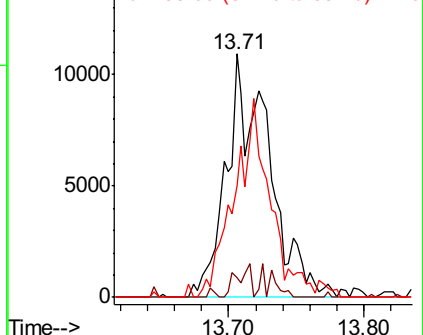
85 0.0 32.7 98.1#

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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: 10.060 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL035237.D

Acq: 29 Jul 2020 5:16

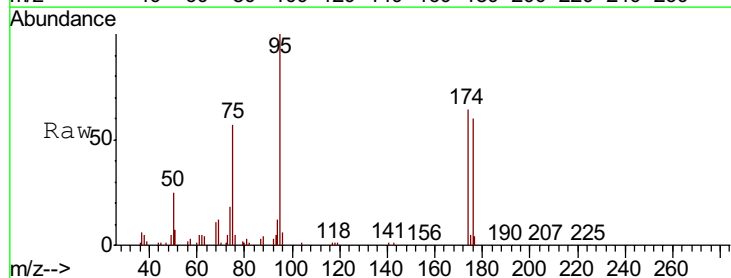
Tgt Ion: 95 Resp: 2489001

Ion Ratio Lower Upper

95 100

174 65.7 52.7 79.1

175 5.0 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

