

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035804.D
 Acq On : 3 Nov 2020 13:38
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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 11/5/2020 2:13:27 PM

Quant Time: Nov 03 14:21:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 14:21:04 2020
 QLast Update : Tue Nov 03 11:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1404390	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	6021792	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	5543553	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3981226	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	3535	0.037	ppbv #	78
32) 1,1,1-Trichloroethane	6.51	97	12793m	0.048	ppbv	
35) Carbon Tetrachloride	7.02	117	10209m	0.033	ppbv	
38) Trichloroethene	7.83	130	7879	0.040	ppbv #	83
52) Tetrachloroethene	11.21	164	8170m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	17256m	0.043	ppbv	

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

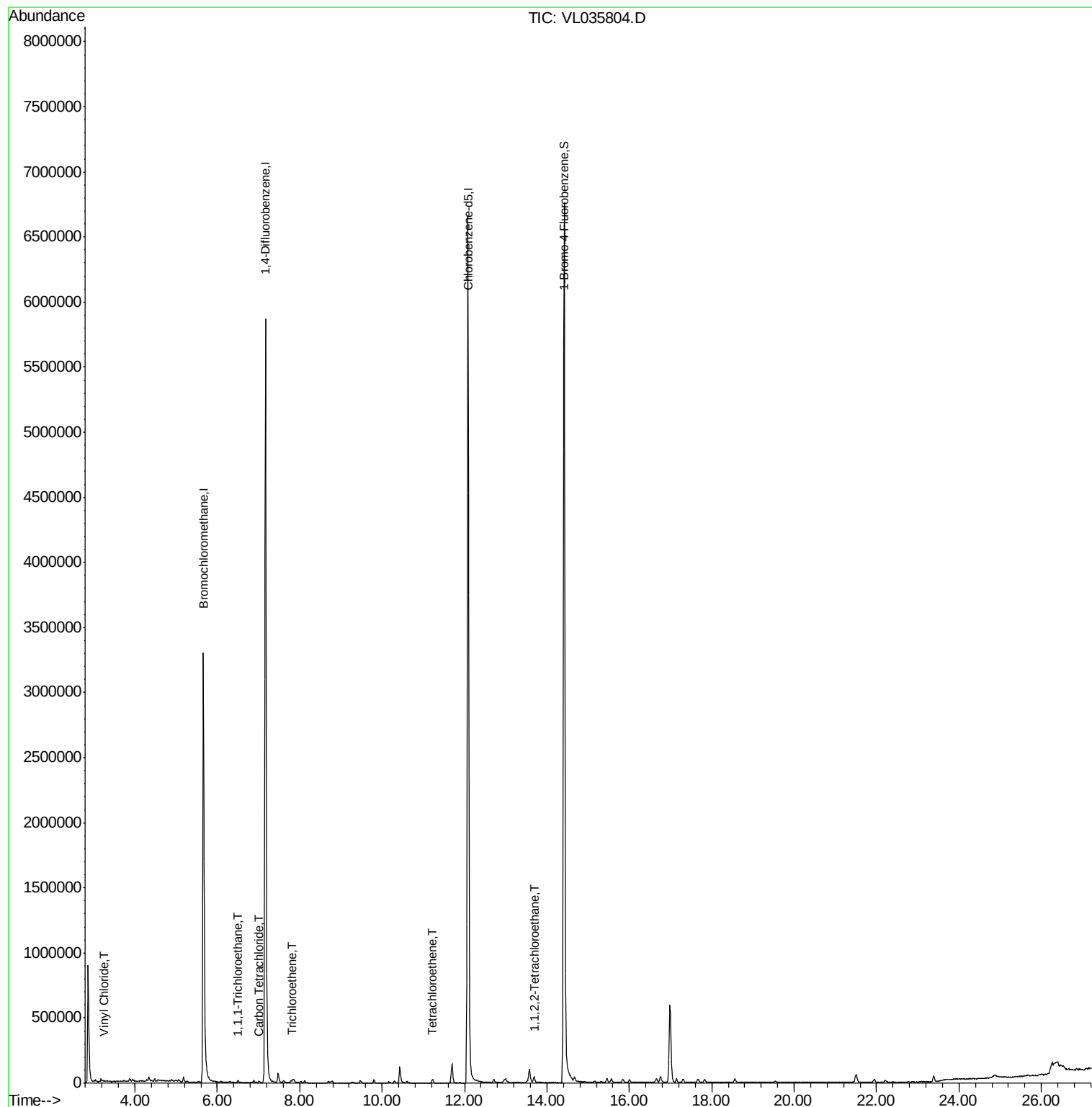
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110320\
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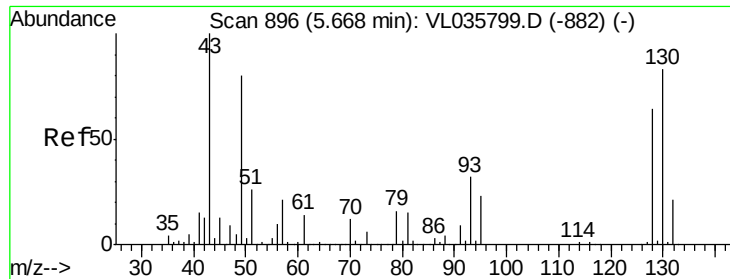
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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Quant Time: Nov 03 14:21:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 03 11:09:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1404390

Ion Ratio Lower Upper

49 100

128 90.0 41.5 124.6

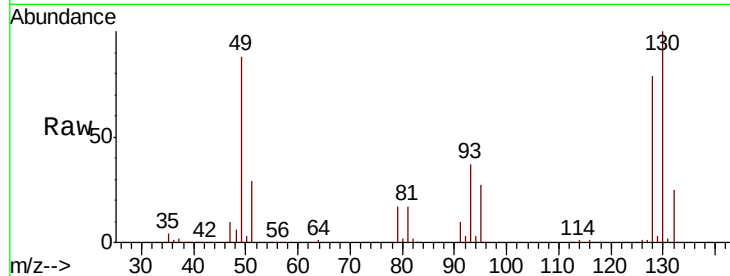
130 115.9 53.7 161.1

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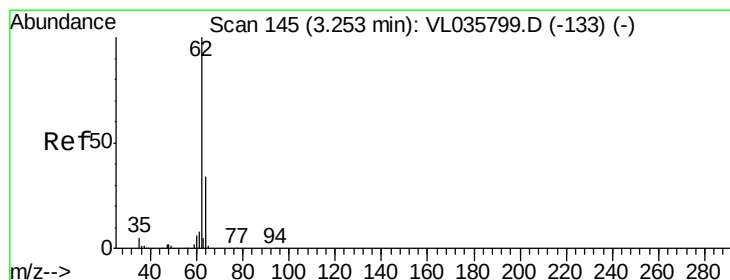
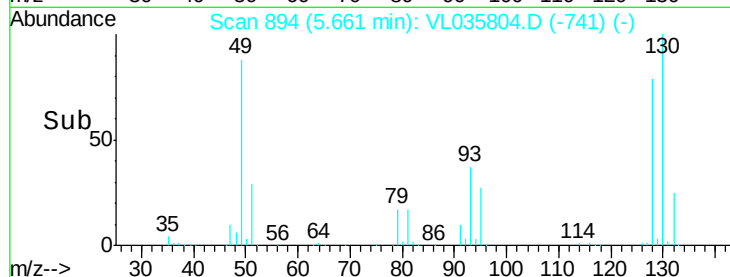
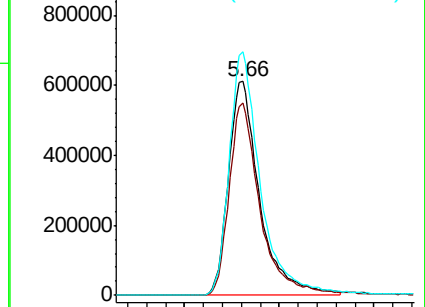
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.037 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL035804.D

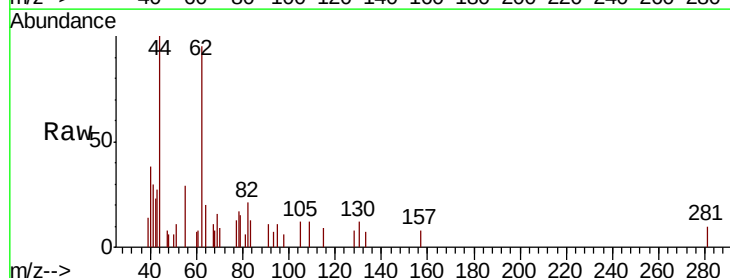
Acq: 3 Nov 2020 13:38

Tgt Ion: 62 Resp: 3535

Ion Ratio Lower Upper

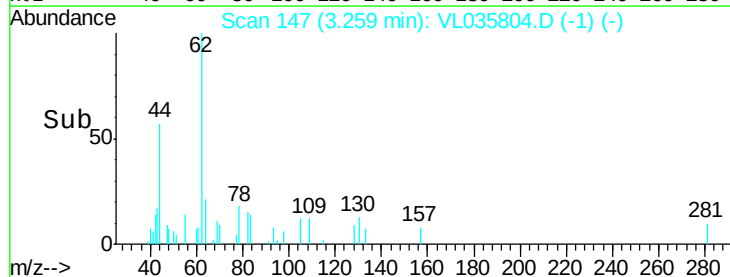
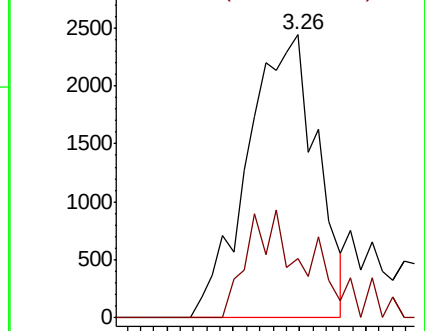
62 100

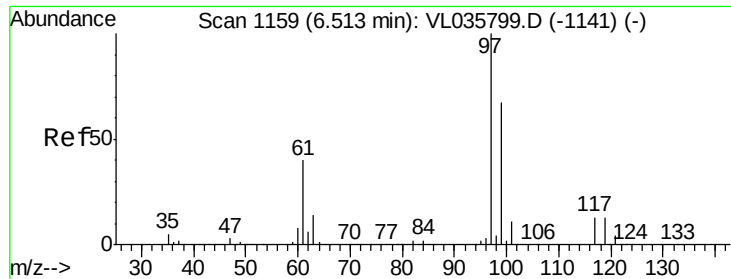
64 21.1 26.9 40.3#



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: 0.048 ppbv m

RT: 6.51 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Instrument :

MSVOA_L

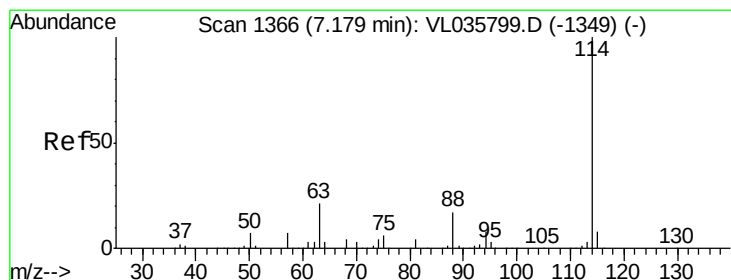
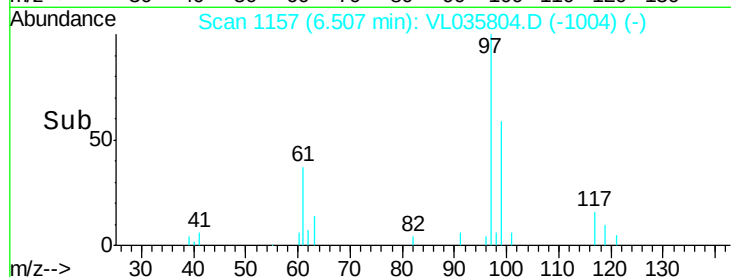
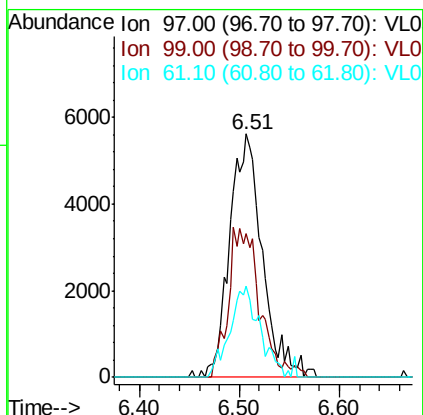
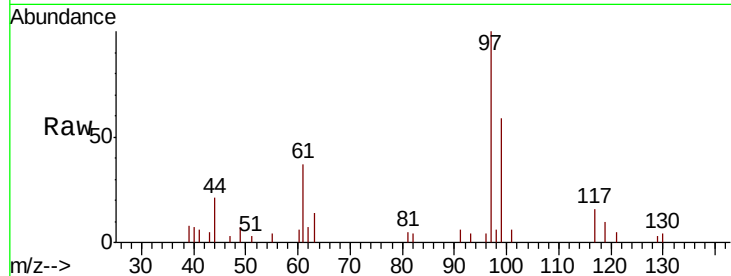
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	12793
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.3	78.5#
61	34.4	32.0	48.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

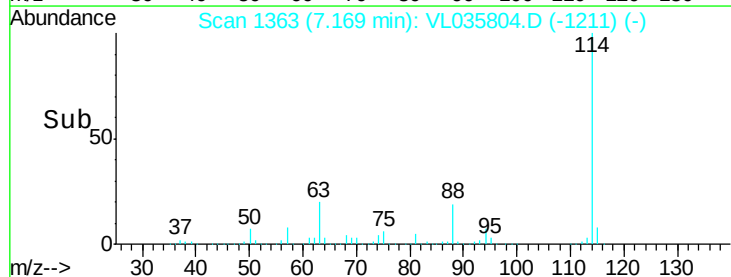
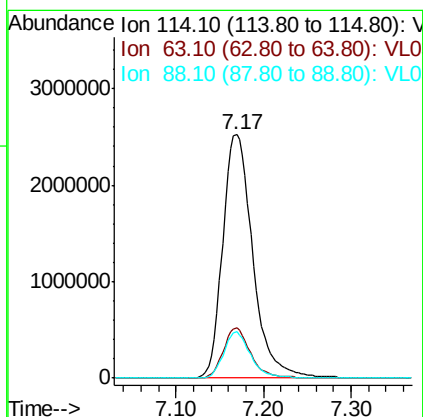
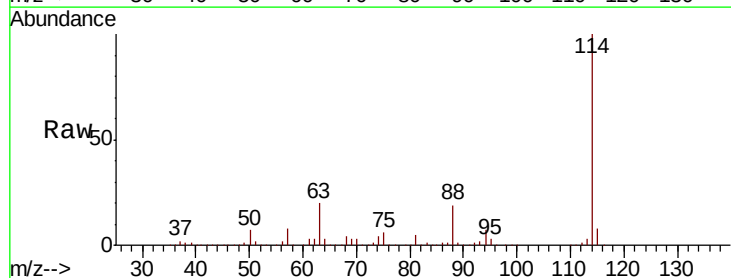
RT: 7.17 min Scan# 1363

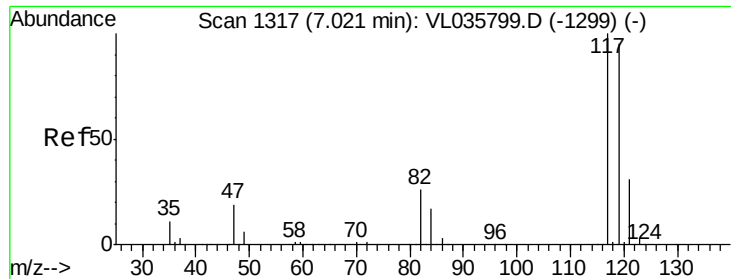
Delta R.T. -0.01 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Tgt Ion:	114	Resp:	6021792
Ion Ratio	Lower	Upper	
114	100		
63	18.8	16.1	24.1
88	17.3	13.7	20.5





#35

Carbon Tetrachloride

Concen: 0.033 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:117 Resp: 10209

Ion Ratio Lower Upper

117 100

119 92.9 75.6 113.4

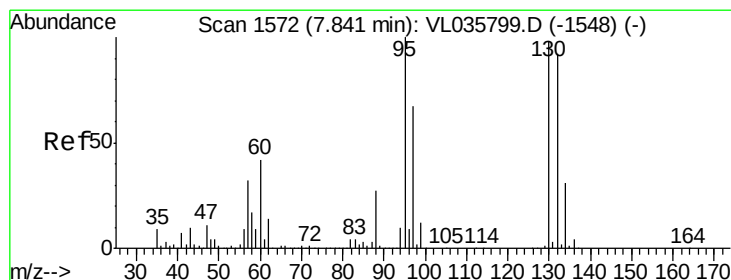
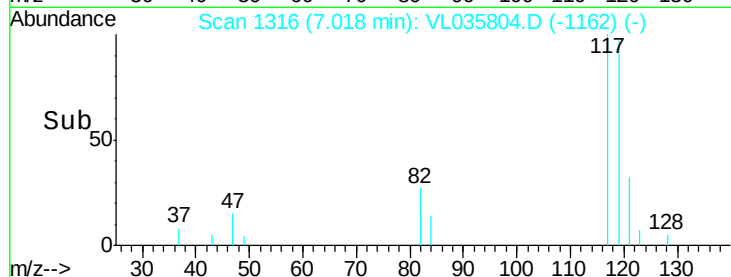
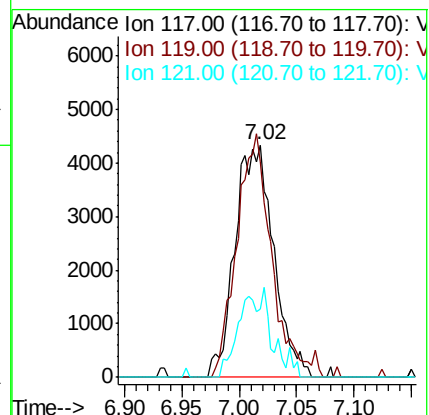
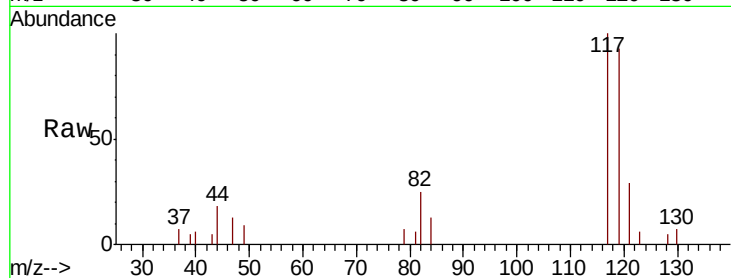
121 29.4 25.1 37.7

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#38

Trichloroethene

Concen: 0.040 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.02 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Tgt Ion:130 Resp: 7879

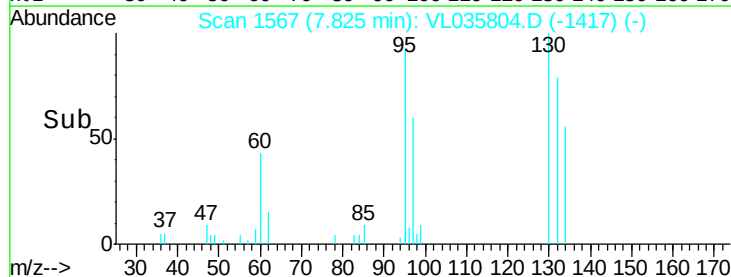
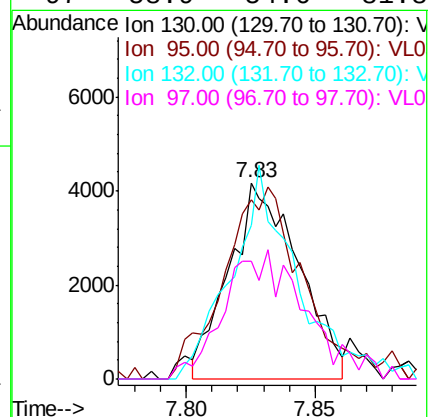
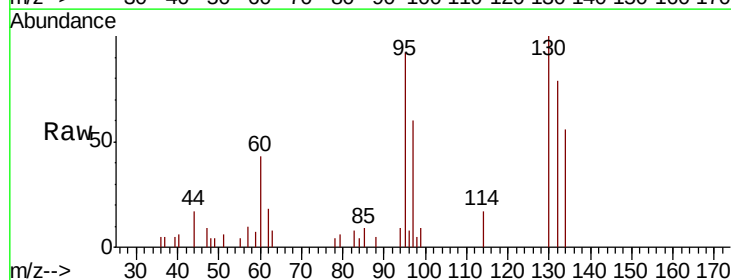
Ion Ratio Lower Upper

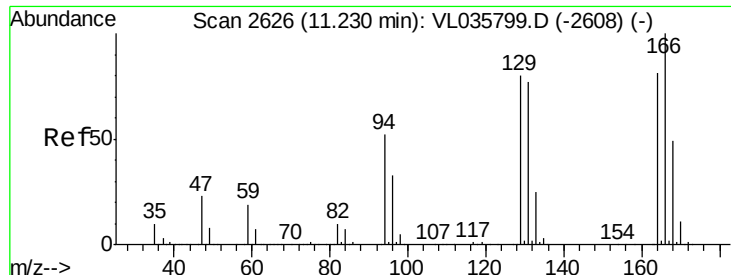
130 100

95 84.2 81.6 122.4

132 74.5 75.1 112.7#

97 58.9 54.6 81.8





#52

Tetrachloroethene

Concen: 0.043 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 8170

Ion Ratio Lower Upper

164 100

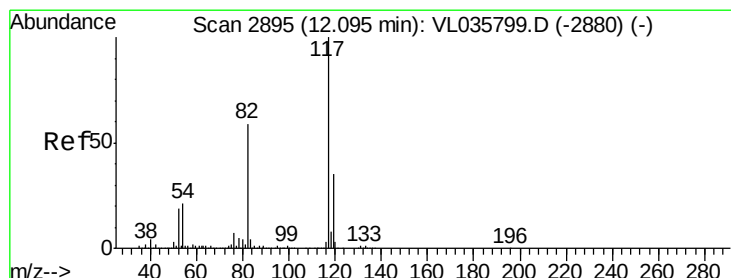
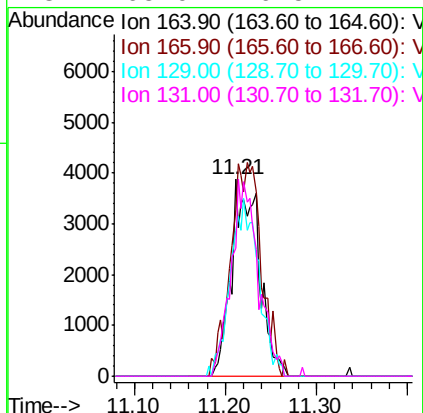
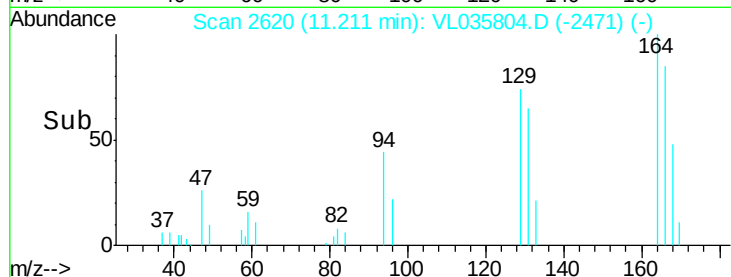
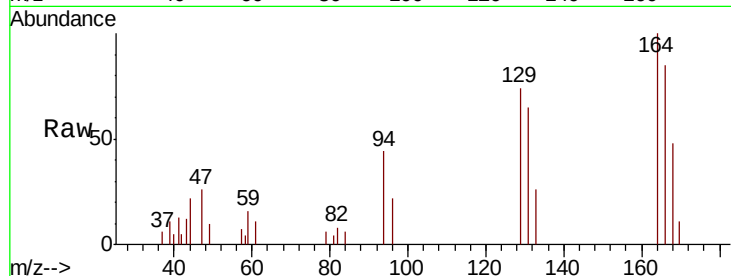
166 84.5 99.3 148.9#

129 74.2 79.3 118.9#

131 65.0 76.5 114.7#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL035804.D

Acq: 3 Nov 2020 13:38

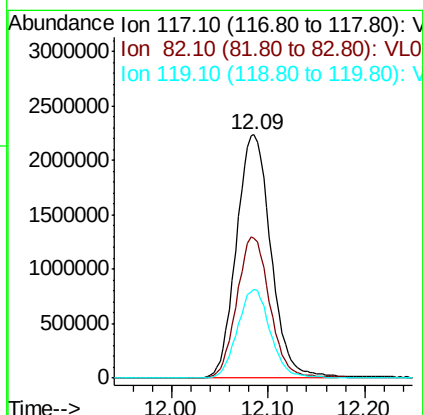
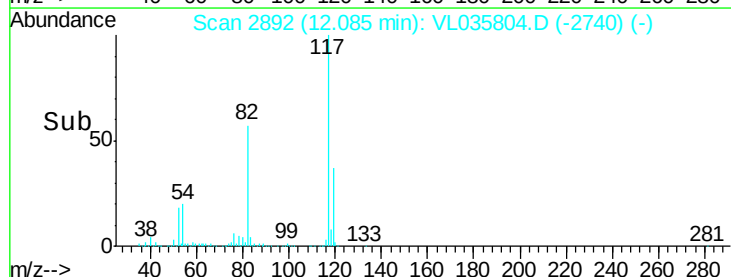
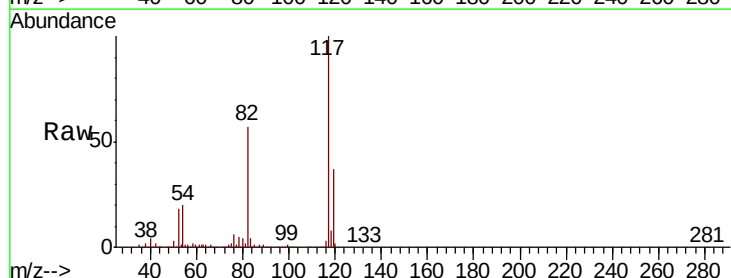
Tgt Ion:117 Resp: 5543553

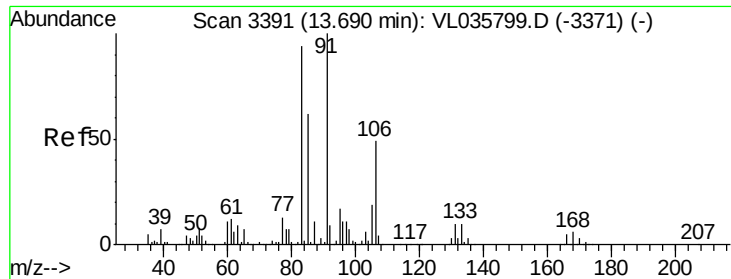
Ion Ratio Lower Upper

117 100

82 56.4 50.6 76.0

119 35.3 52.6 78.8#





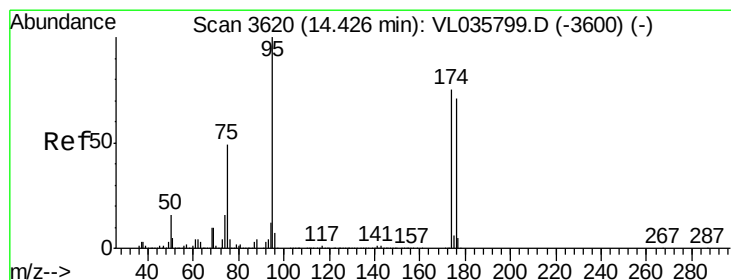
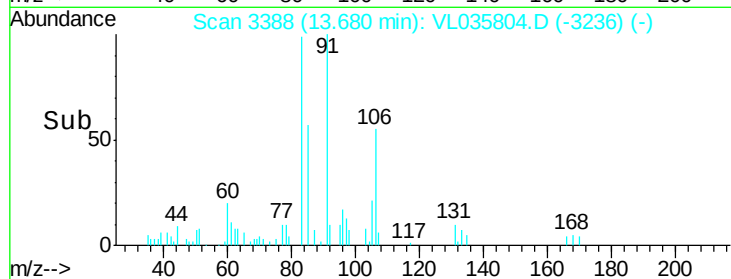
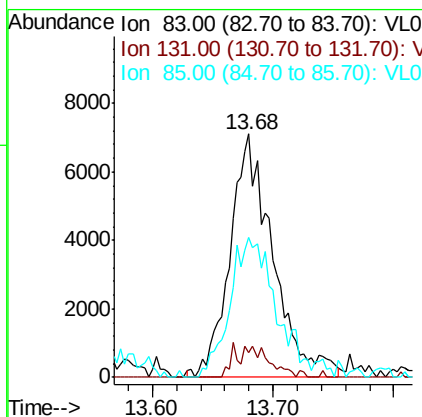
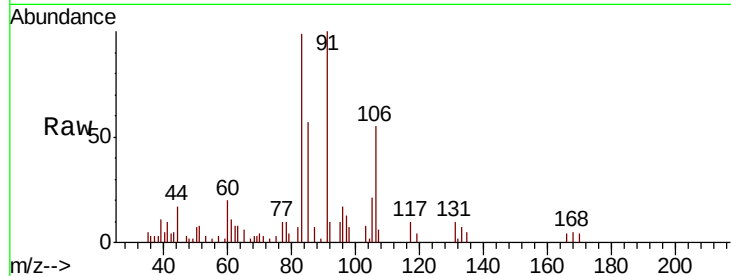
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.043 ppbv m
 RT: 13.68 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VL035804.D
 Acq: 3 Nov 2020 13:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	83	Resp	17256
Ion Ratio	100	Lower	Upper
83	100		
131	0.0	5.3	15.8#
85	0.0	33.5	100.4#

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.584 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL035804.D
 Acq: 3 Nov 2020 13:38

Tgt Ion	95	Resp	3981226
Ion Ratio	100	Lower	Upper
95	100		
174	74.1	59.8	89.6
175	5.2	4.3	6.5

