

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
 Data File : VL035101.D
 Acq On : 19 Jun 2020 19:04
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Manual Integrations
 APPROVED

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Quant Time: Jun 20 02:05:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:05:30 2020
 QLast Update : Sat Jun 20 01:15:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1296172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2997354	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2834737	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2428178	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.21	62	2154m	0.026	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	6182m	0.033	ppbv	
35) Carbon Tetrachloride	7.00	117	5956m	0.032	ppbv	
38) Trichloroethene	7.82	130	2890m	0.030	ppbv	
52) Tetrachloroethene	11.24	164	2480m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	8657m	0.036	ppbv	

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

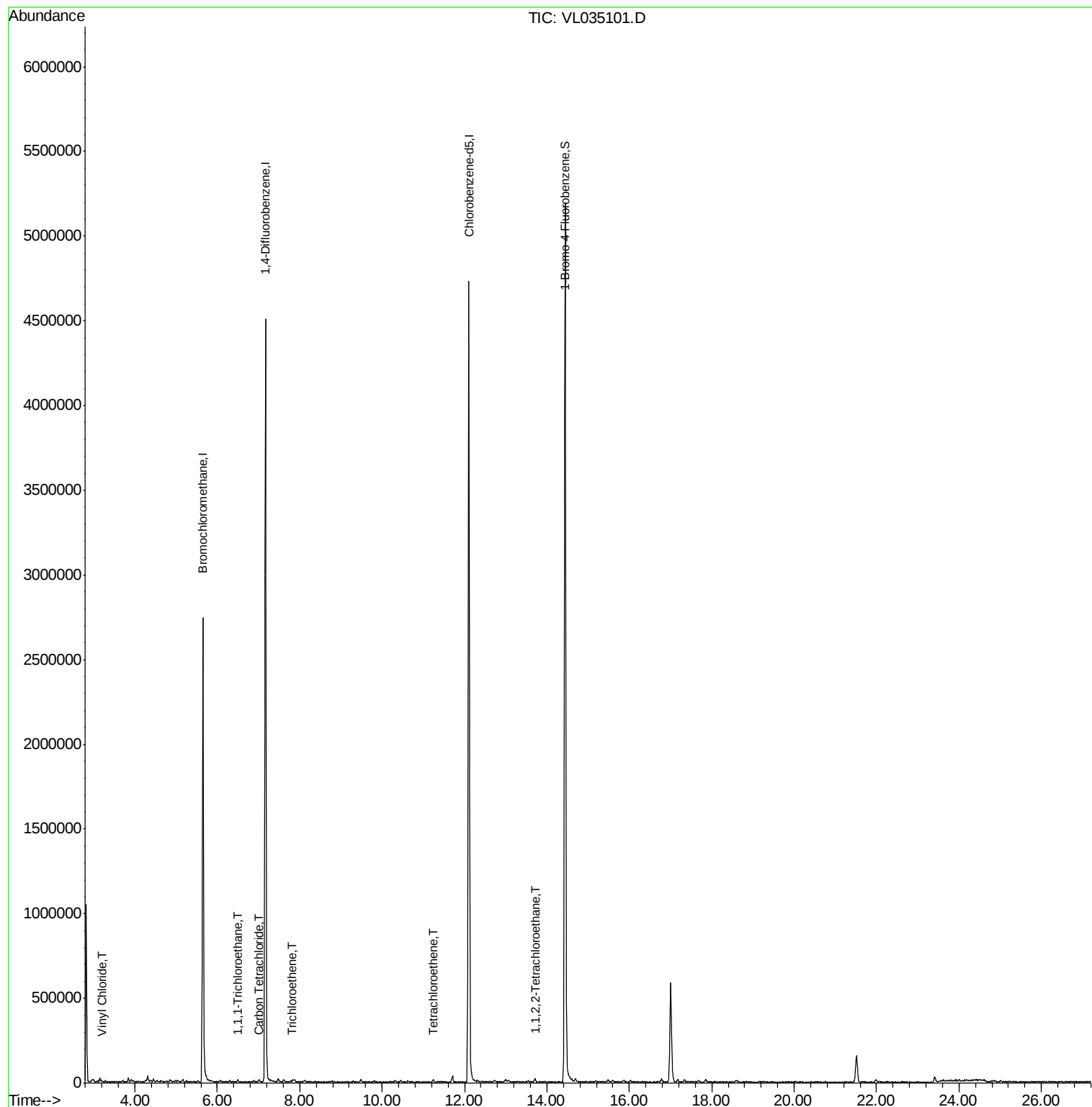
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
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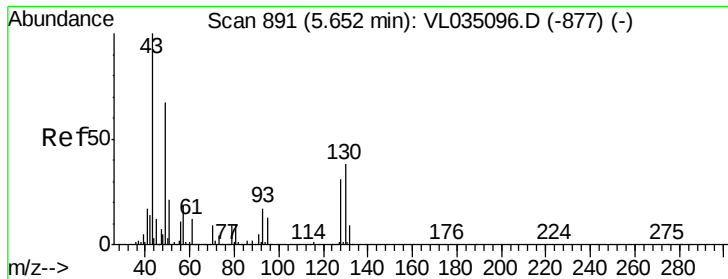
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Quant Time: Jun 20 02:05:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun
QLast Update : Sat Jun 20 01:15:38 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1296172

Ion Ratio Lower Upper

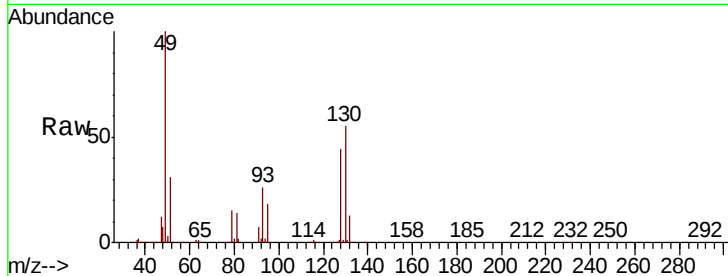
49 100

128 46.7 22.9 68.5

130 59.5 29.0 87.0

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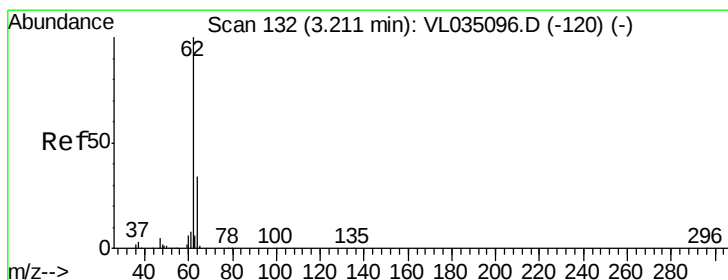
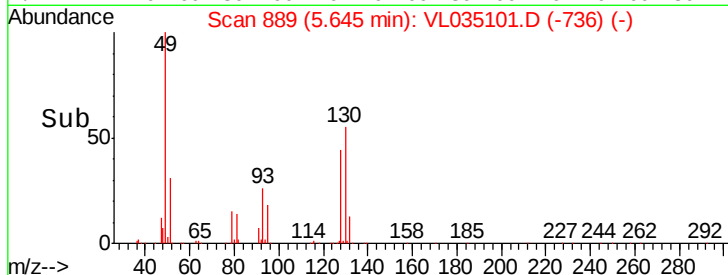
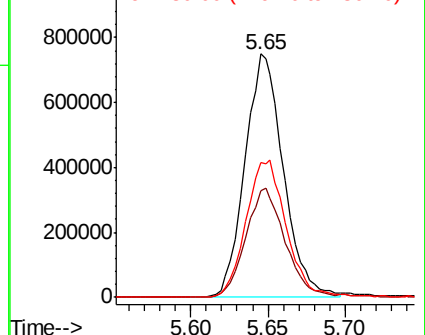
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.026 ppbv m

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035101.D

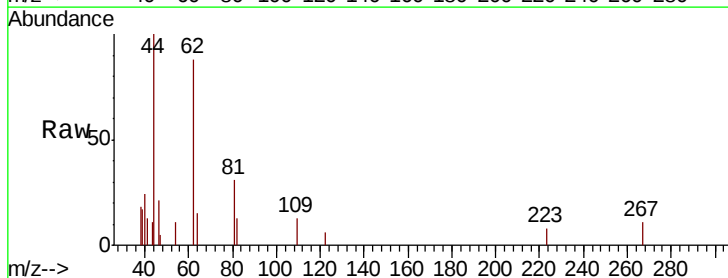
Acq: 19 Jun 2020 19:04

Tgt Ion: 62 Resp: 2154

Ion Ratio Lower Upper

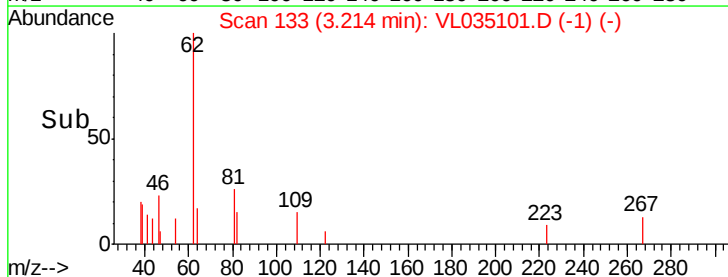
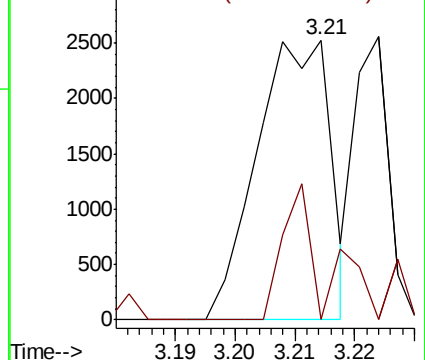
62 100

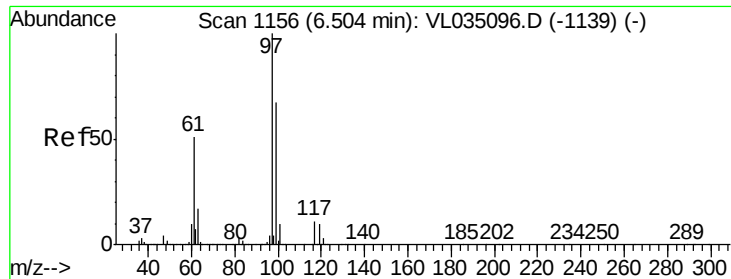
64 0.0 27.0 40.4#



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: 0.033 ppbv m

RT: 6.49 min Scan# 1153

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

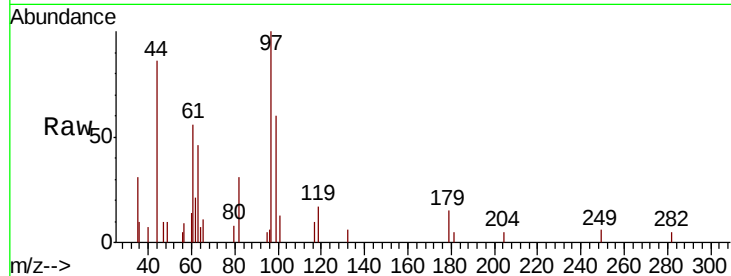
ClientSampleId :

VSTDIC0.03

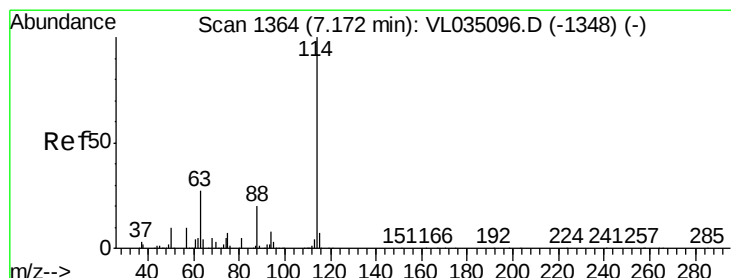
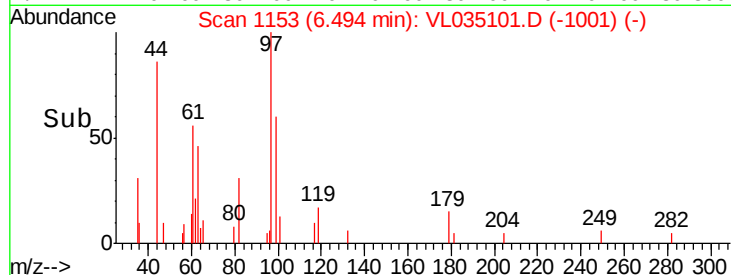
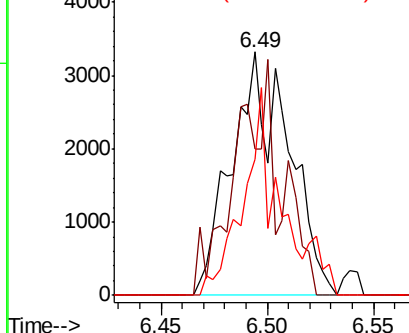
Tot Ion:	97	Resp:	6182
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.0	78.0#
61	0.0	41.0	61.6#

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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

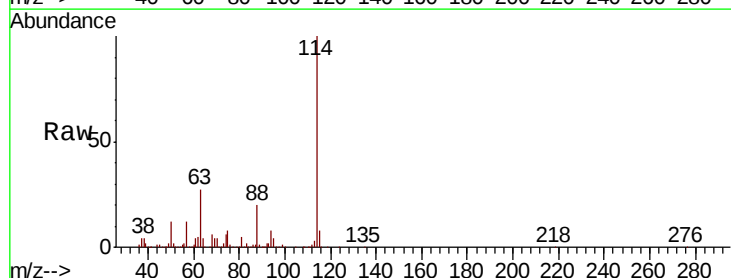
RT: 7.17 min Scan# 1362

Delta R.T. -0.01 min

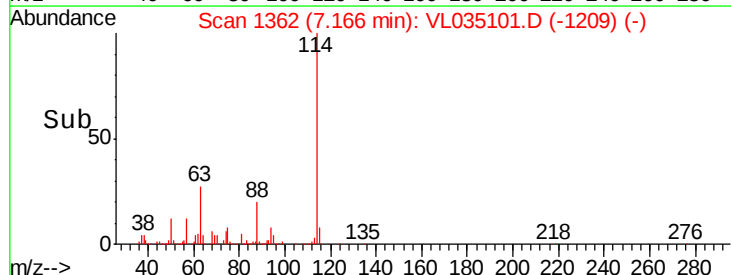
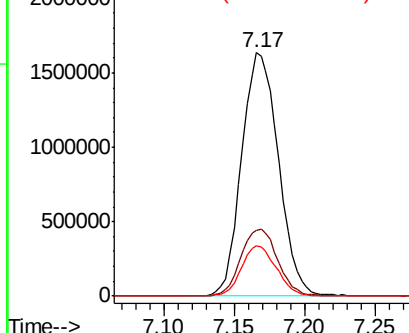
Lab File: VL035101.D

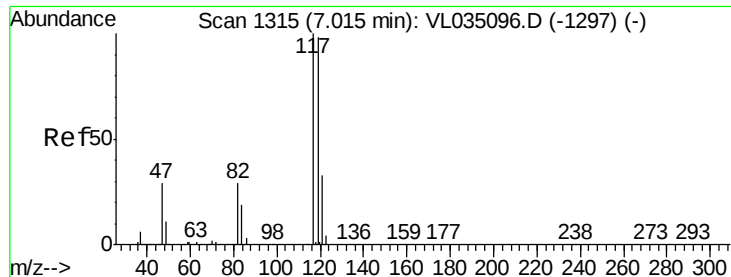
Acq: 19 Jun 2020 19:04

Tgt Ion:	114	Resp:	2997354
Ion Ratio	Lower	Upper	
114	100		
63	27.7	21.9	32.9
88	19.6	15.6	23.4



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: 0.032 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. -0.01 min

Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Instrument :

MSVOA_L

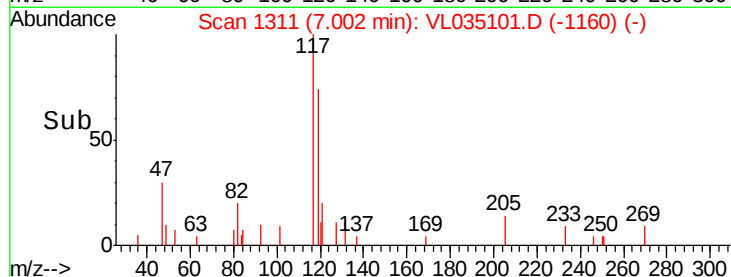
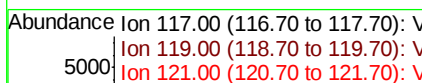
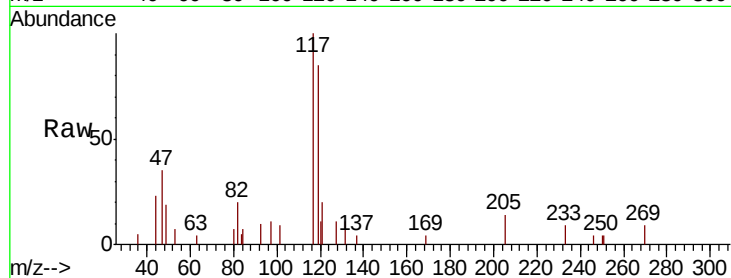
ClientSampleId :

VSTDIC0.03

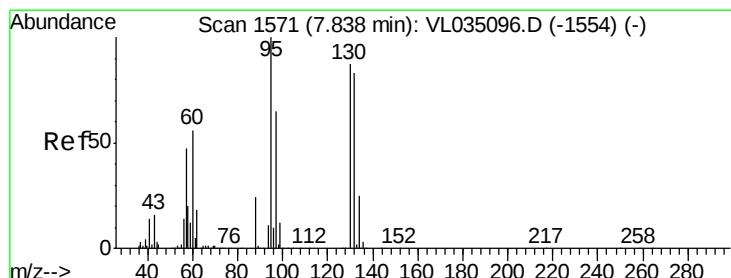
Tot Ion:	117	Resp:	5956
Ion	Ratio	Lower	Upper
117	100		
119	84.9	78.3	117.5
121	19.5	26.0	39.0#

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Time-->



#38

Trichloroethene

Concen: 0.030 ppbv m

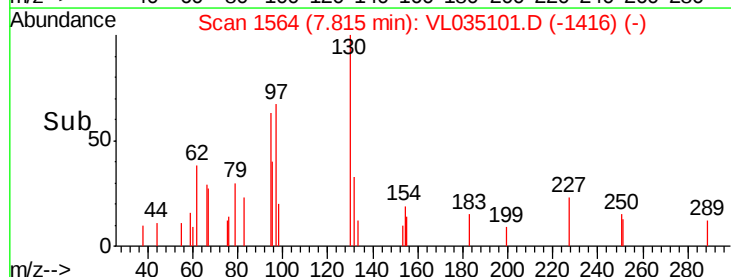
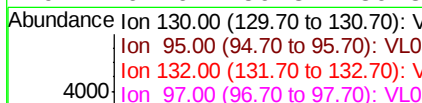
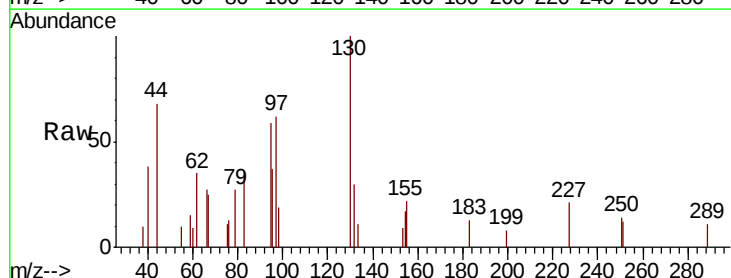
RT: 7.82 min Scan# 1564

Delta R.T. -0.02 min

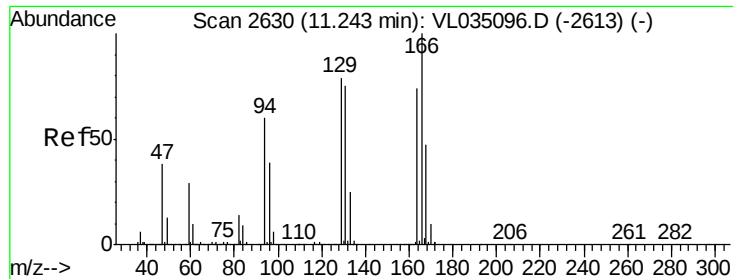
Lab File: VL035101.D

Acq: 19 Jun 2020 19:04

Tgt Ion:	130	Resp:	2890
Ion	Ratio	Lower	Upper
130	100		
95	58.6	91.4	137.2#
132	30.4	75.8	113.6#
97	61.6	59.8	89.8



Time-->



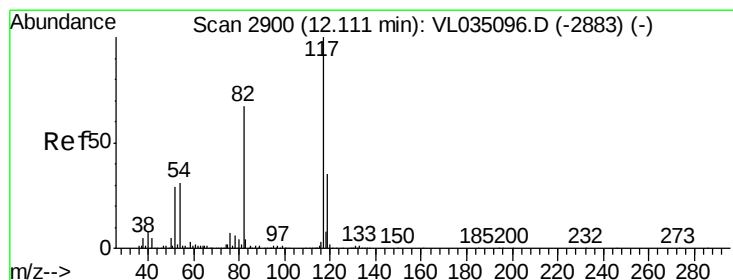
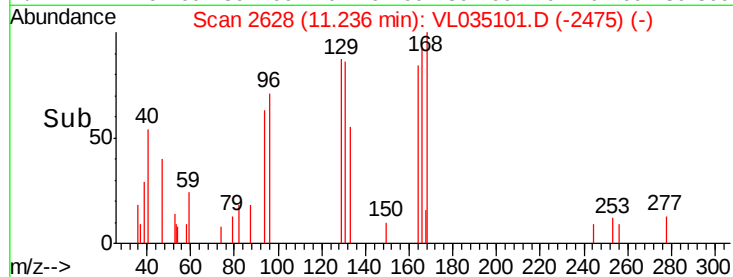
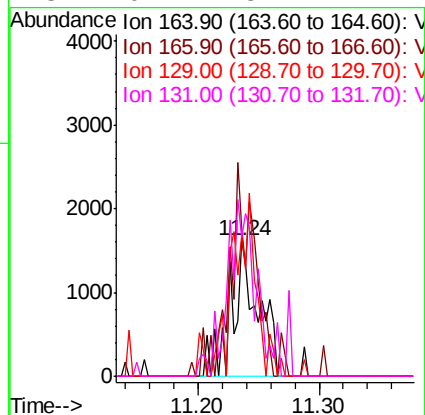
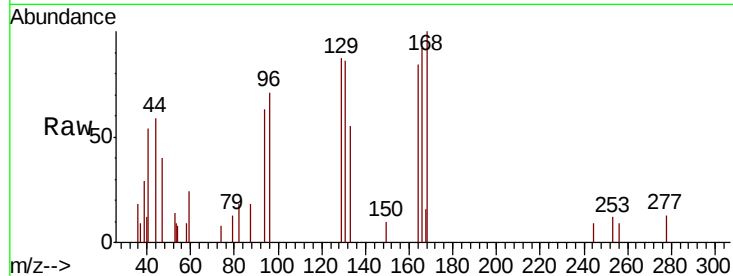
#52
Tetrachloroethene
Concen: 0.028 ppbv m
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	109.7	107.5	161.3
129	103.9	84.9	127.3
131	102.7	81.1	121.7

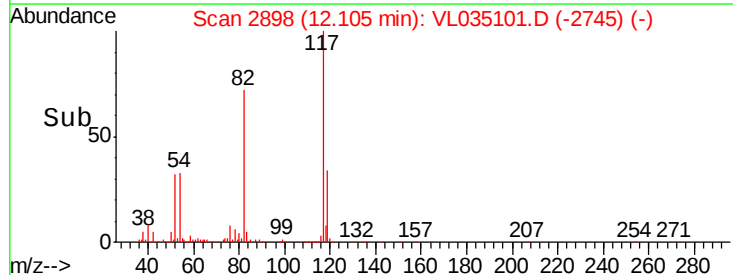
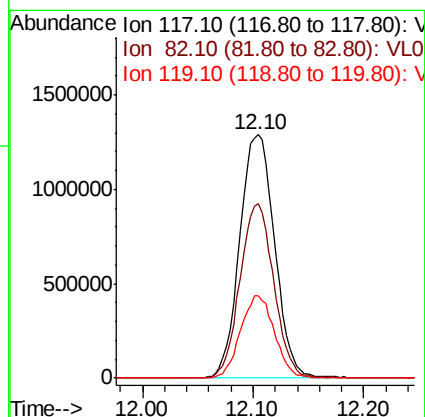
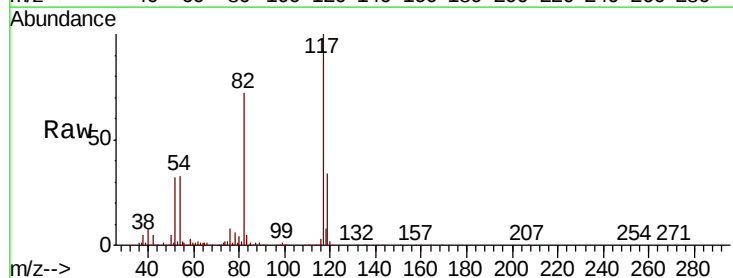
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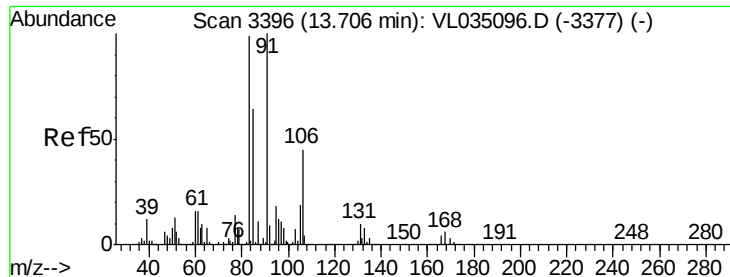
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035101.D
Acq: 19 Jun 2020 19:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	69.8	50.4	75.6
119	32.9	25.4	38.0





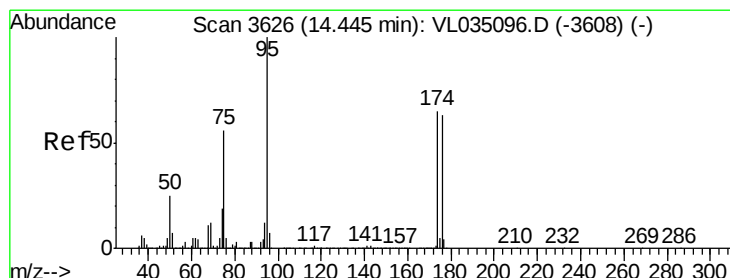
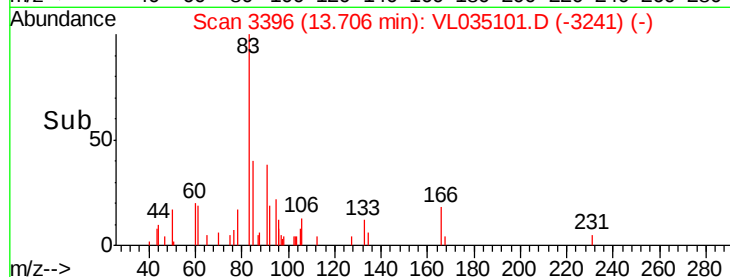
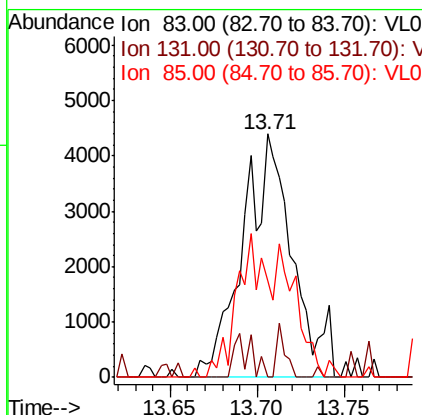
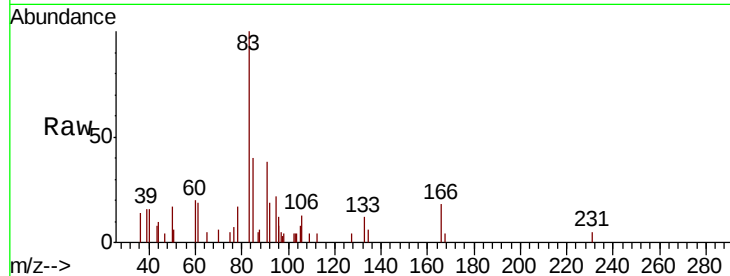
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.036 ppbv m
 RT: 13.71 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VL035101.D
 Acq: 19 Jun 2020 19:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	83	Resp	8657
Ion	Ratio	Lower	Upper
83	100		
131	6.0	4.7	14.0
85	59.5	32.4	97.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.625 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. -0.01 min
 Lab File: VL035101.D
 Acq: 19 Jun 2020 19:04

Tgt Ion	95	Resp	2428178
Ion	Ratio	Lower	Upper
95	100		
174	64.6	52.2	78.2
175	4.7	4.0	6.0

