

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032747.D
 Acq On : 14 Nov 2018 5:35
 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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 11/16/2018 1:29:48 PM

Quant Time: Nov 14 06:13:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 06:13:53 2018
 QLast Update : Wed Nov 14 05:38:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1592268	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3922790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3530360	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2848767	10.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.31	62	2801m	0.037	ppbv	
32) 1,1,1-Trichloroethane	6.63	97	10885m	0.041	ppbv	
35) Carbon Tetrachloride	7.14	117	12351m	0.044	ppbv	
38) Trichloroethene	7.97	130	4648m	0.039	ppbv	
52) Tetrachloroethene	11.38	164	3104m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	11083m	0.040	ppbv	

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

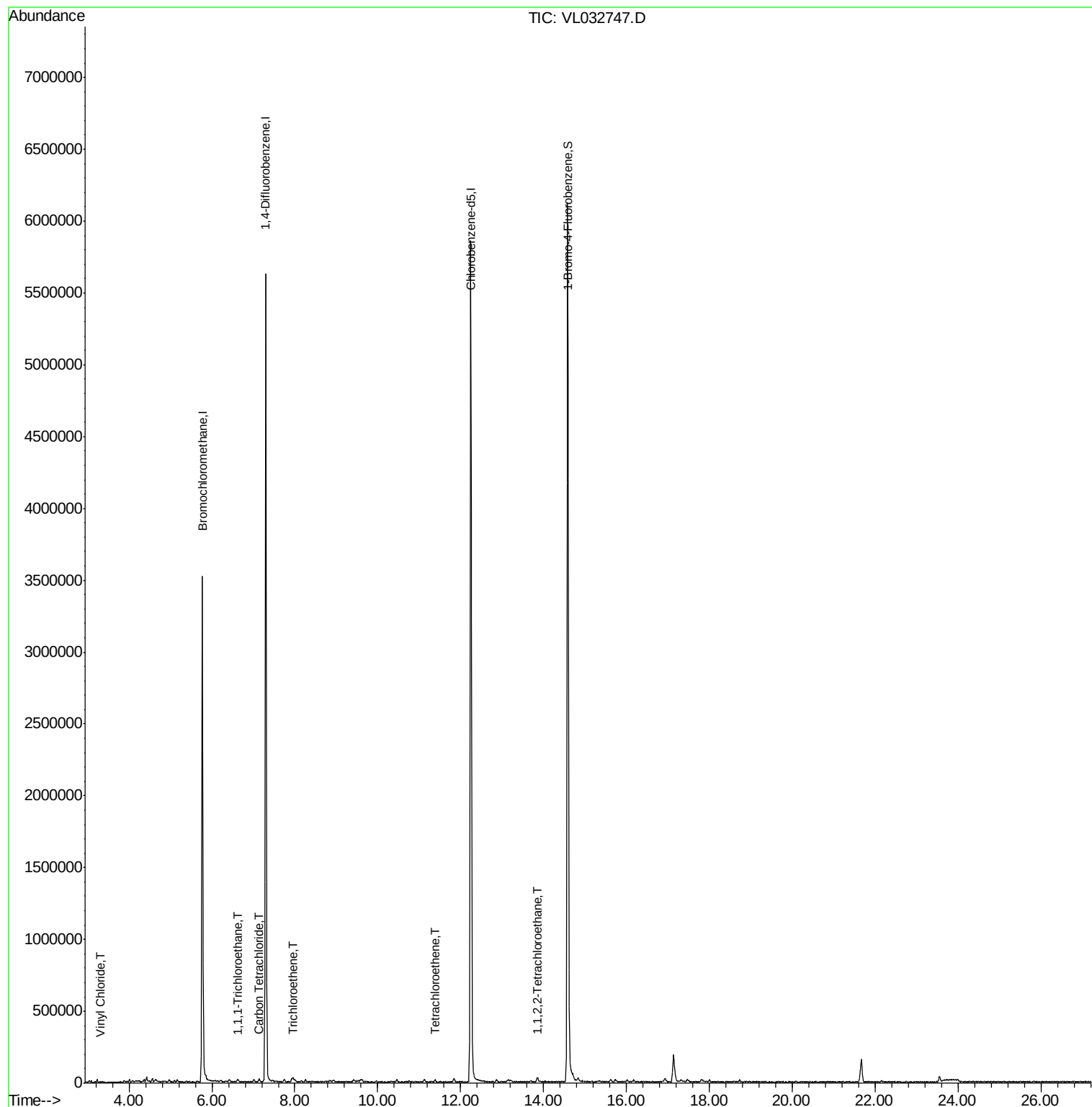
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111418\
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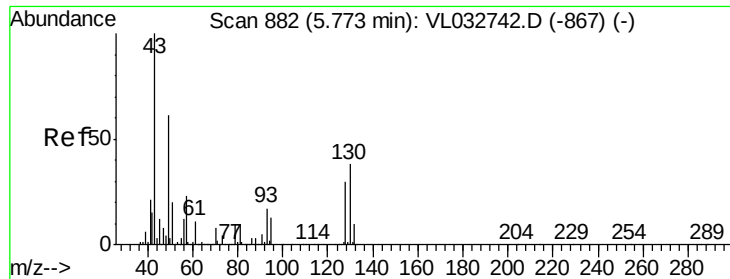
Instrument :
MSVOA_L
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
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QLast Update : Wed Nov 14 05:38:10 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032747.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1592268

Ion Ratio Lower Upper

49 100

128 50.9 24.9 74.6

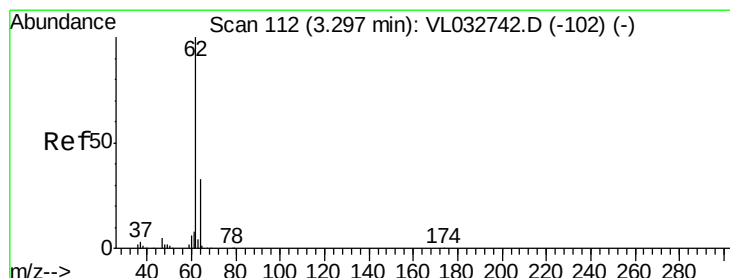
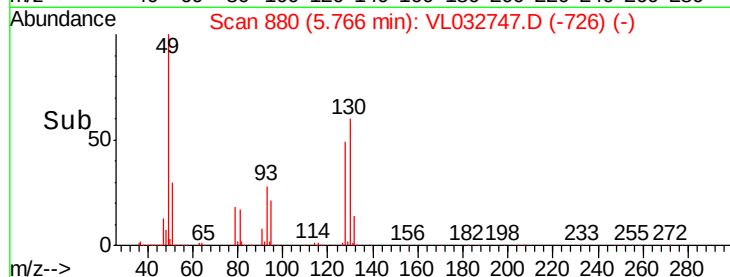
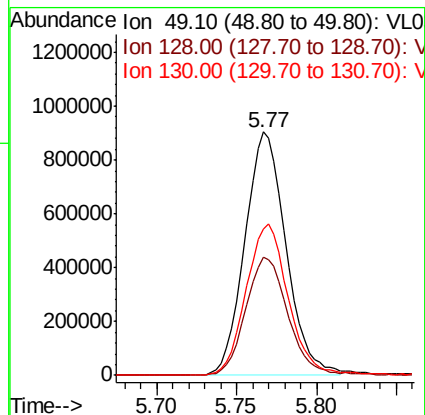
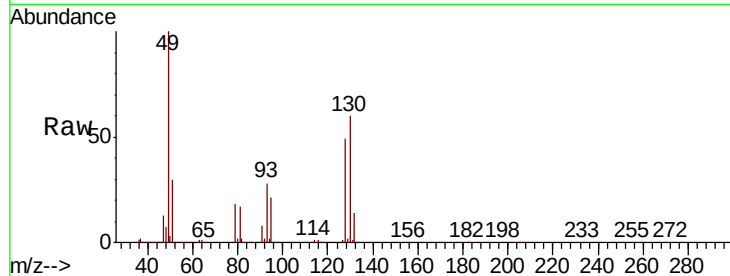
130 65.0 31.4 94.2

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.037 ppbv m

RT: 3.31 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL032747.D

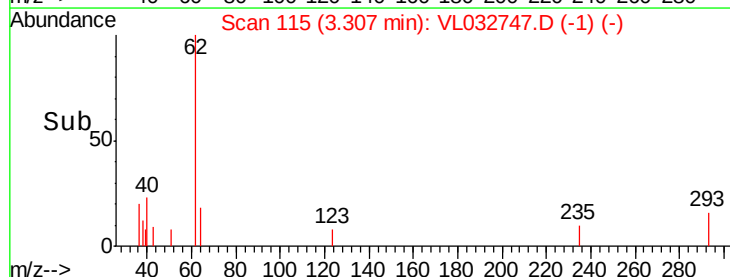
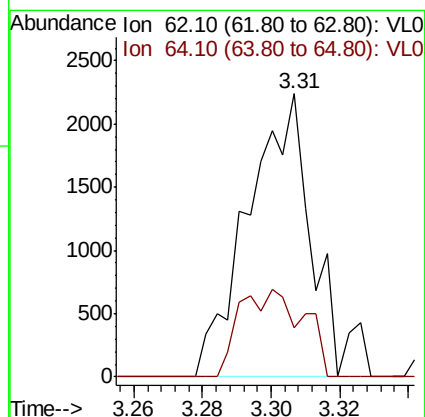
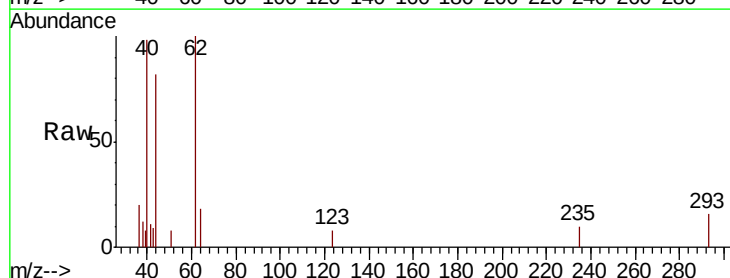
Acq: 14 Nov 2018 5:35

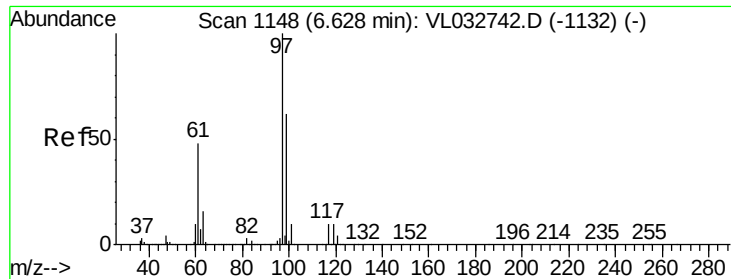
Tgt Ion: 62 Resp: 2801

Ion Ratio Lower Upper

62 100

64 17.6 26.2 39.4#





#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv m

RT: 6.63 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

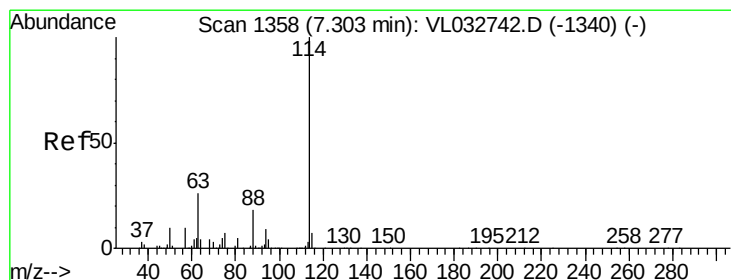
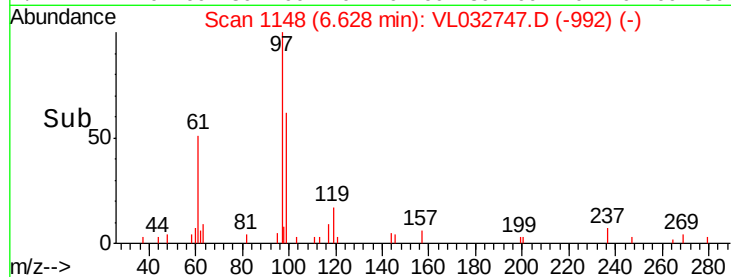
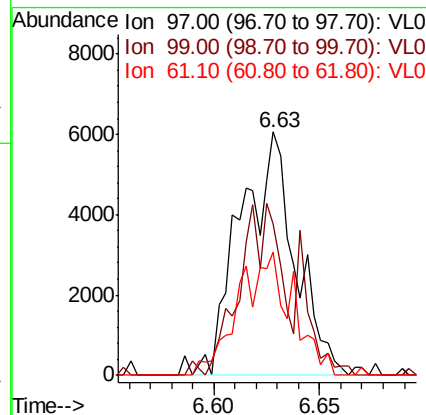
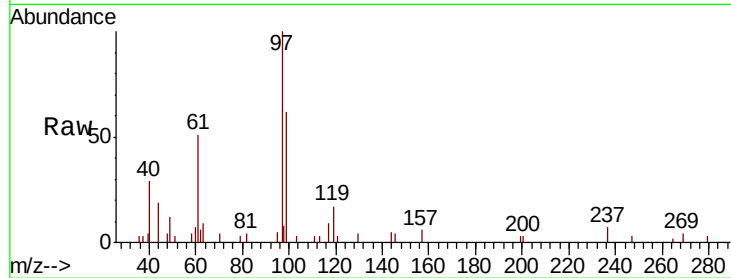
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	10885
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.8	77.6#
61	0.0	39.7	59.5#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

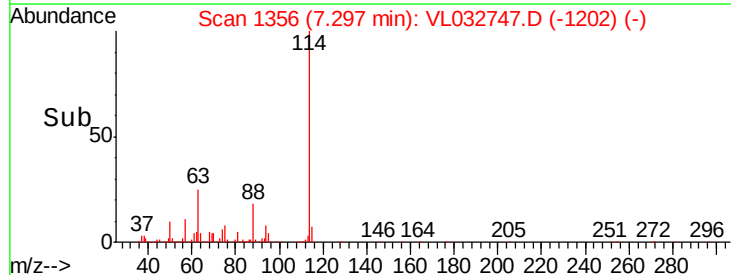
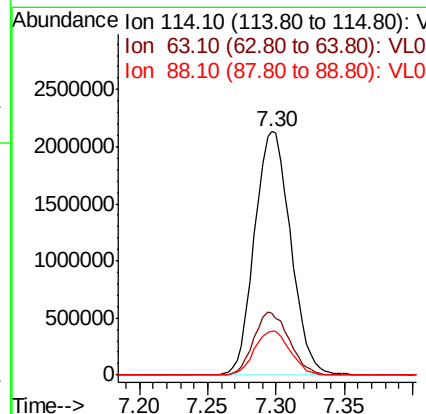
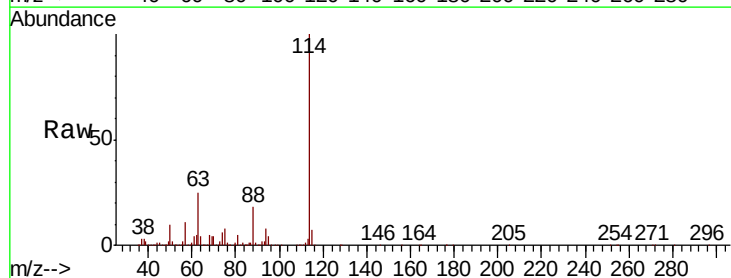
RT: 7.30 min Scan# 1356

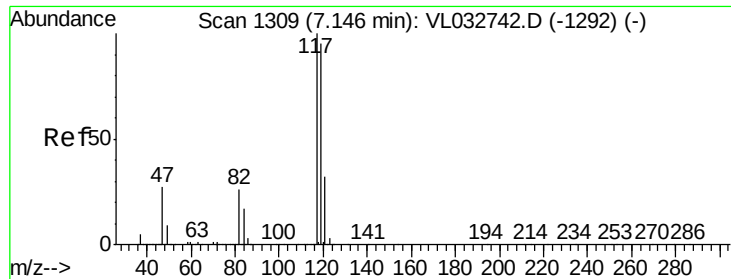
Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Tgt Ion:	114	Resp:	3922790
Ion Ratio	Lower	Upper	
114	100		
63	25.7	20.9	31.3
88	18.0	14.4	21.6





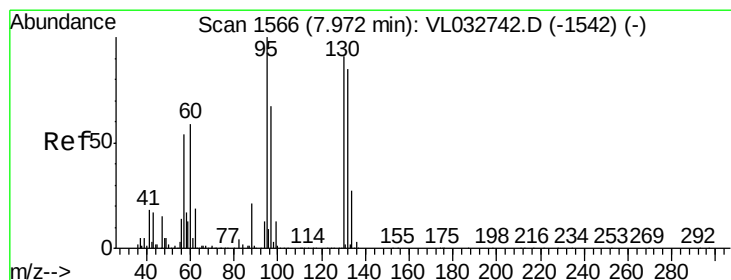
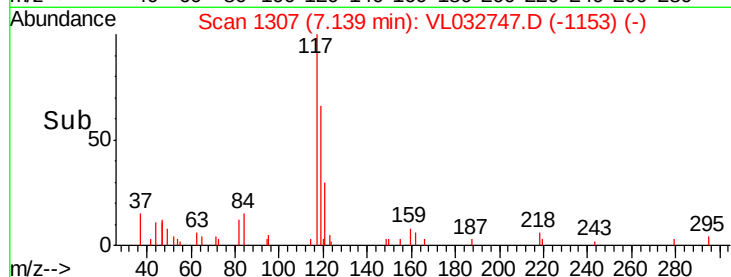
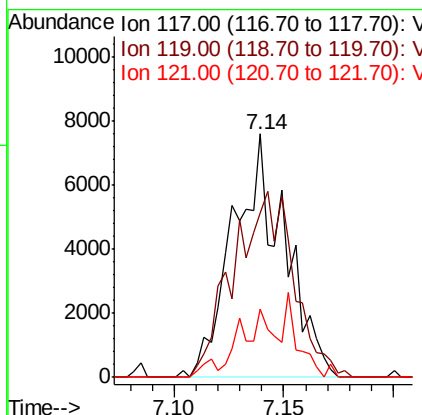
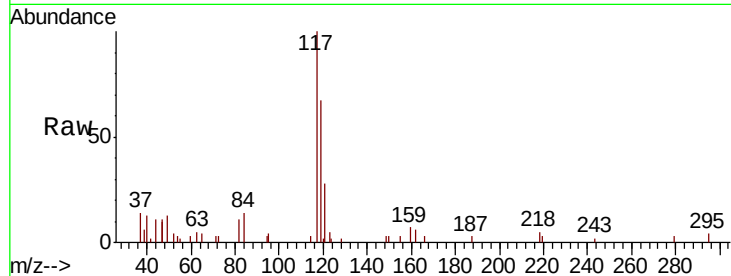
#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 7.14 min Scan# 1307
Delta R.T. -0.01 min
Lab File: VL032747.D
Acq: 14 Nov 2018 5:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	67.3	76.1	114.1#
121	27.9	25.4	38.0

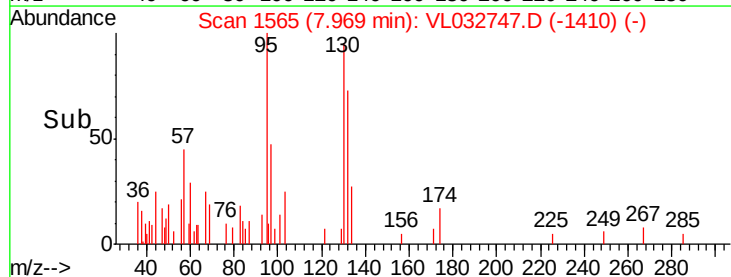
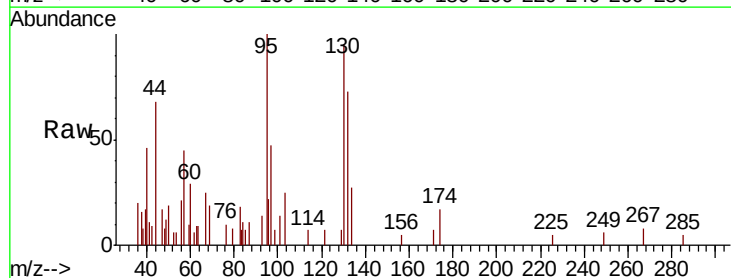
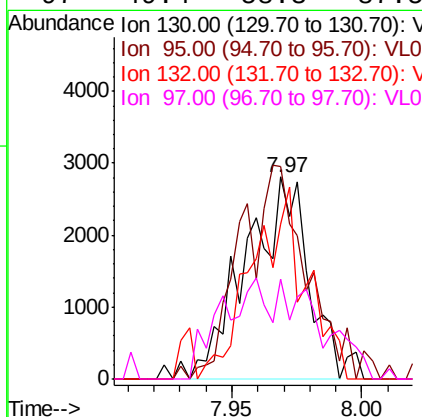
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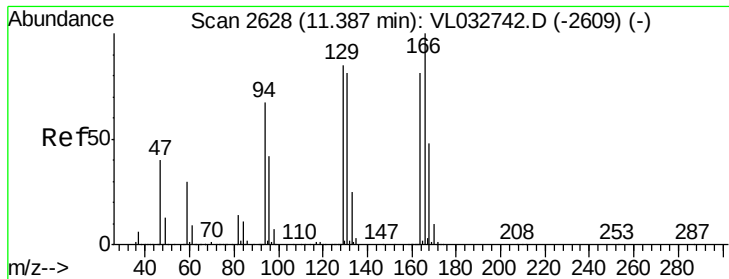
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#38
Trichloroethene
Concen: 0.039 ppbv m
RT: 7.97 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VL032747.D
Acq: 14 Nov 2018 5:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.3	87.7	131.5
132	76.5	74.6	111.8
97	49.4	58.3	87.5#





#52

Tetrachloroethene

Concen: 0.028 ppbv m

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 3104

Ion Ratio Lower Upper

164 100

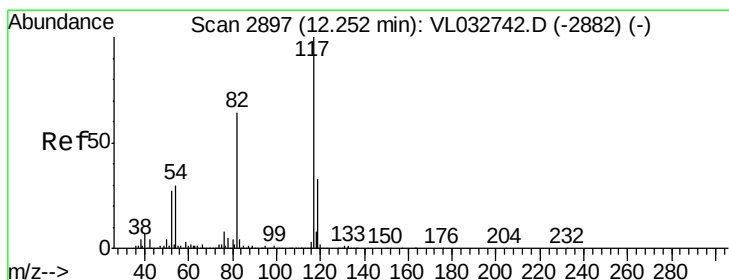
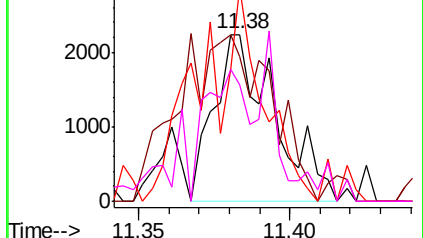
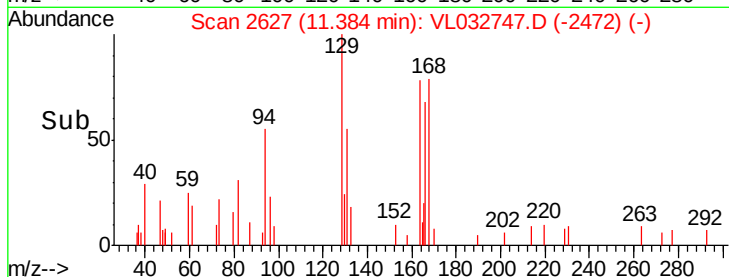
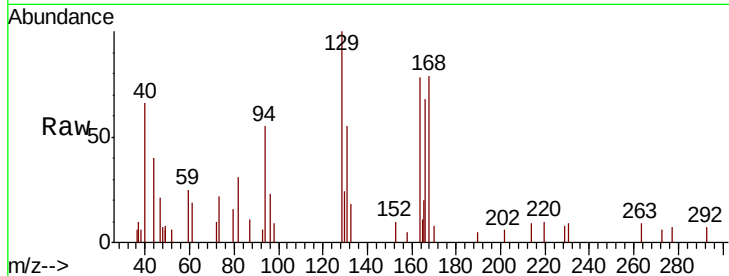
166 86.4 99.3 148.9#

129 127.9 83.9 125.9#

131 69.7 80.8 121.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

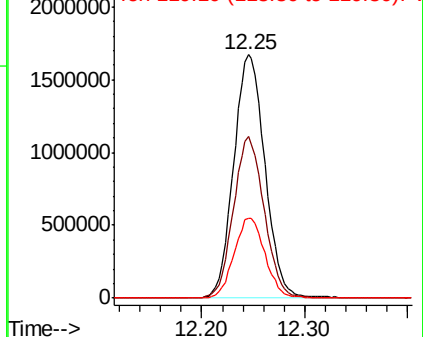
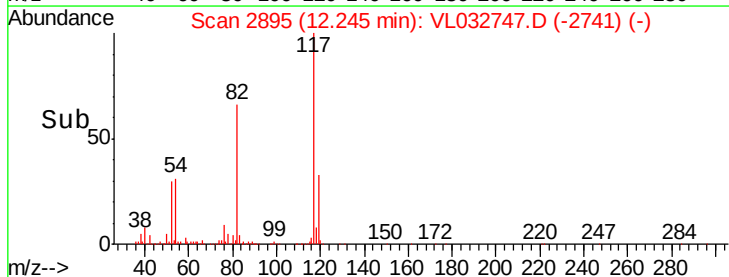
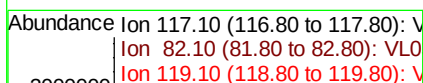
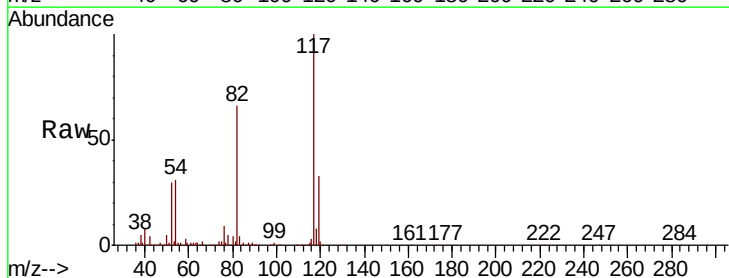
Tgt Ion:117 Resp: 3530360

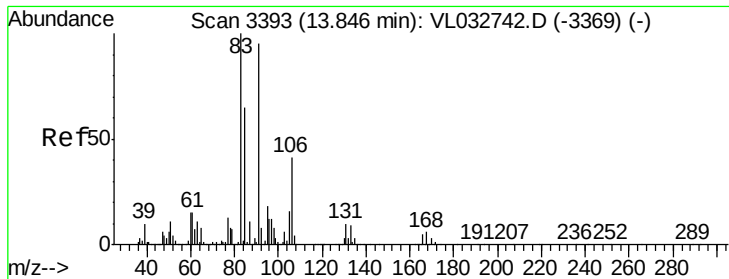
Ion Ratio Lower Upper

117 100

82 65.5 51.0 76.6

119 32.6 28.0 42.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.040 ppbv m

RT: 13.83 min Scan# 3388

Delta R.T. -0.02 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Instrument :

MSVOA_L

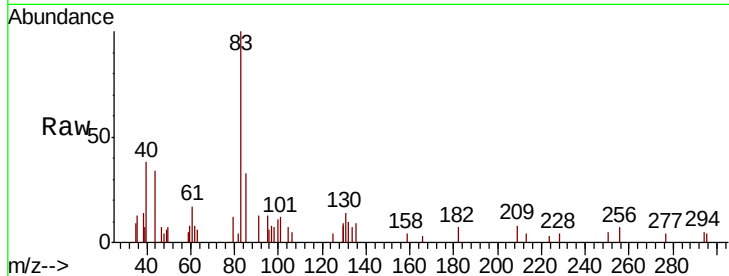
ClientSampleId :

VSTDIC0.03

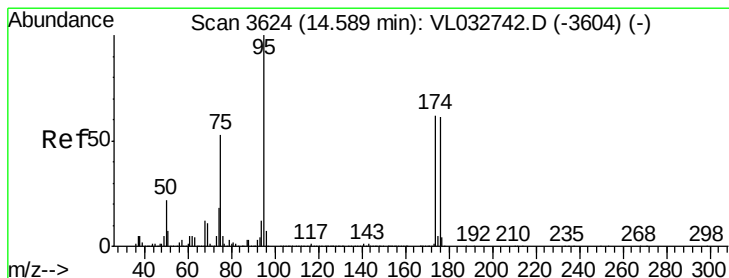
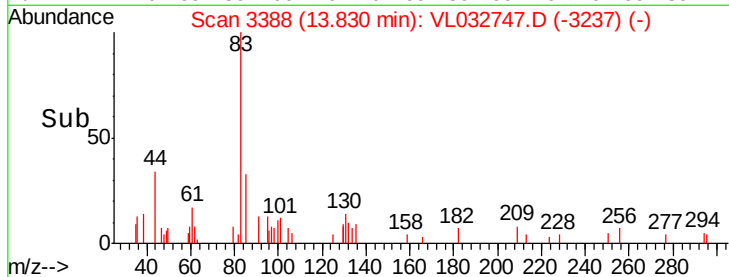
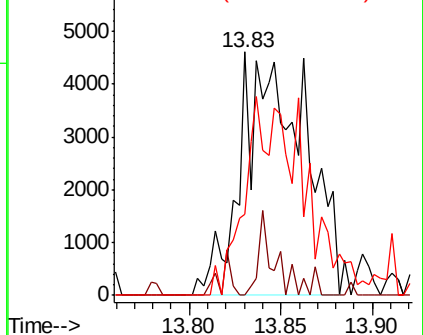
Tot Ion:	83	Resp:	11083
Ion Ratio	Lower	Upper	
83	100		
131	12.7	4.7	14.1
85	80.4	32.5	97.4

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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: 10.706 ppbv

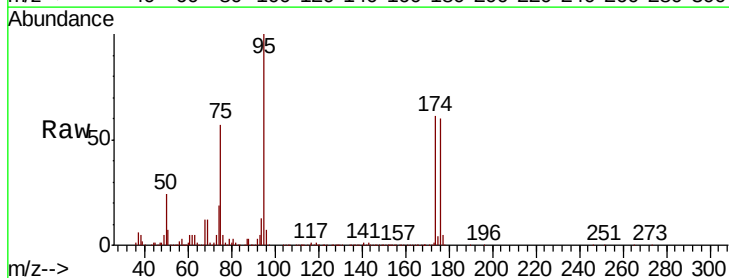
RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032747.D

Acq: 14 Nov 2018 5:35

Tgt Ion:	95	Resp:	2848767
Ion Ratio	Lower	Upper	
95	100		
174	64.3	50.7	76.1
175	4.7	3.8	5.6



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

