

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031217.D
 Acq On : 14 Dec 2017 1:33
 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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 12/15/2017 4:06:59 PM

Quant Time: Dec 14 04:22:54 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 03:40:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1653735	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3978650	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3979768	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2955145	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.40	62	4155	0.04	ppbv	# 87
32) 1,1,1-Trichloroethane	6.77	97	8407	0.04	ppbv	89
35) Carbon Tetrachloride	7.29	117	9442m	0.03	ppbv	
38) Trichloroethene	8.13	130	6855m	0.04	ppbv	
52) Tetrachloroethene	11.55	164	5776m	0.04	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.02	83	12349m	0.03	ppbv	

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

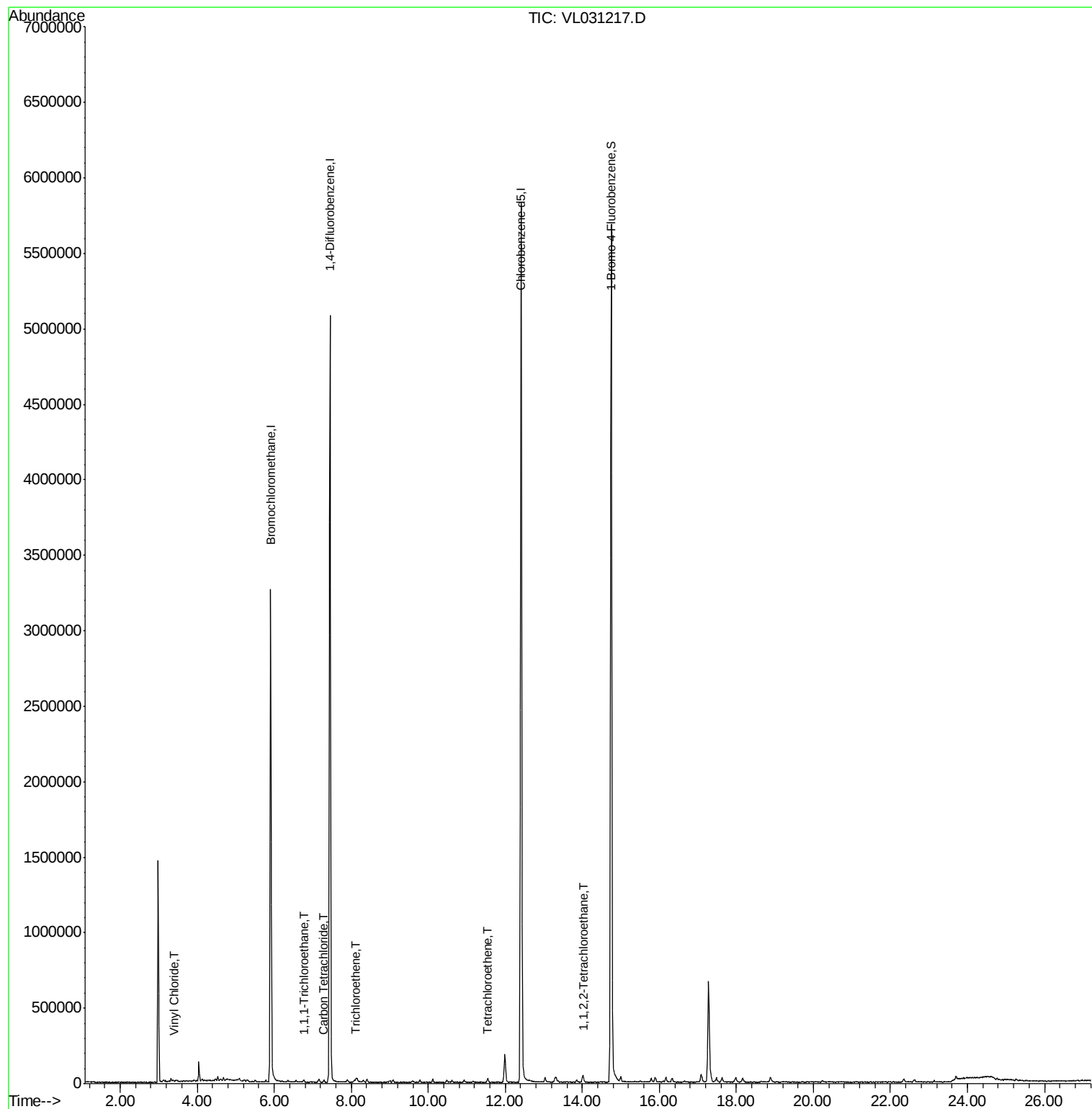
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
Data File : VL031217.D
Acq On : 14 Dec 2017 1:33
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

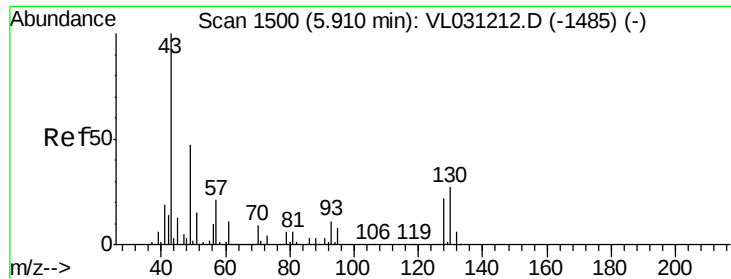
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
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#1

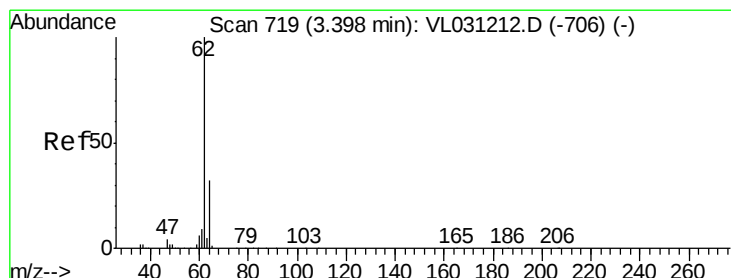
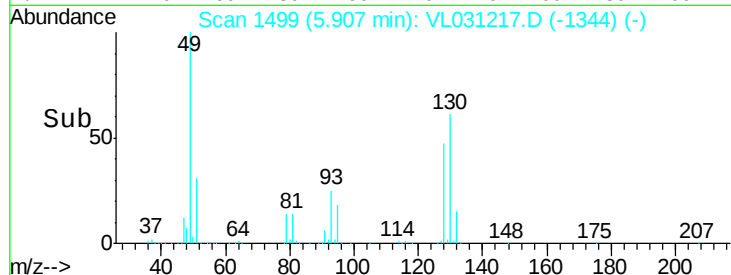
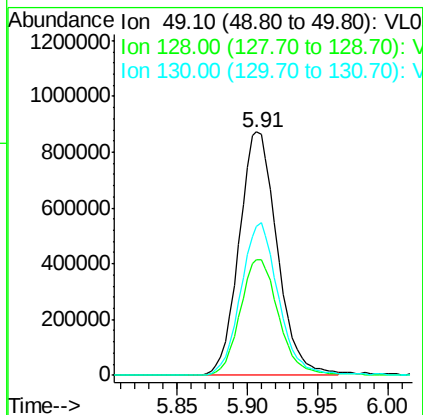
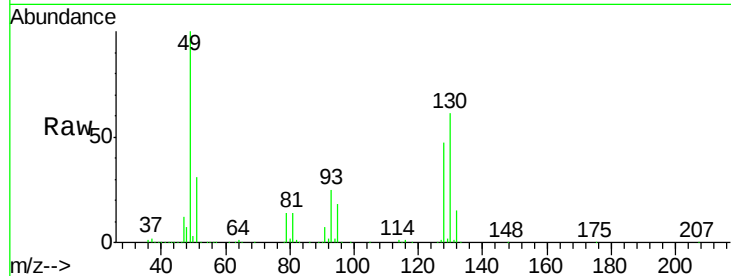
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.91 min Scan# 1499
 Delta R.T. -0.00 min
 Lab File: VL031217.D
 Acq: 14 Dec 2017 1:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.0	23.2	69.5
130	62.8	29.6	88.8

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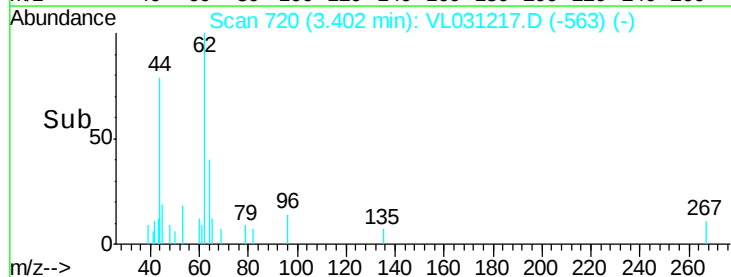
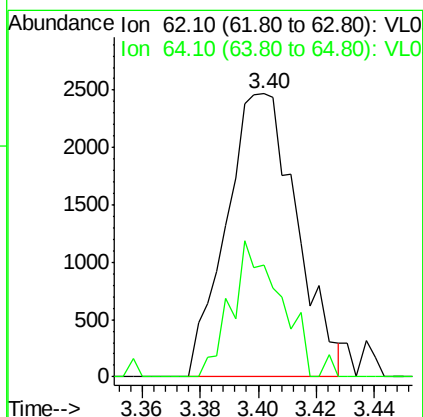
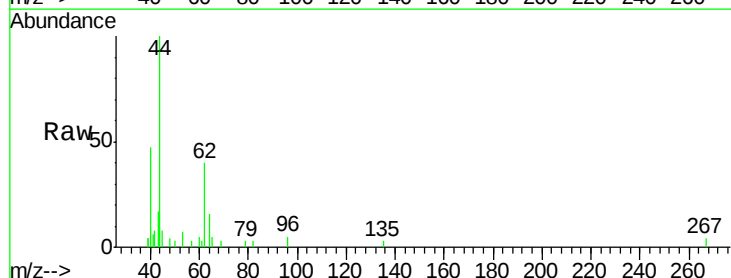
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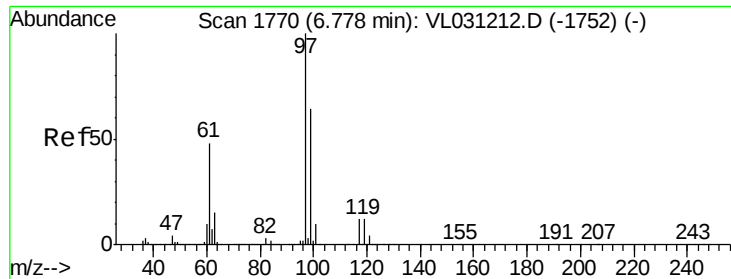


#5

Vinyl Chloride
 Concen: 0.04 ppbv
 RT: 3.40 min Scan# 720
 Delta R.T. 0.00 min
 Lab File: VL031217.D
 Acq: 14 Dec 2017 1:33

Tgt Ion	Ratio	Lower	Upper
62	100		
64	39.5	25.9	38.9#





#32

1,1,1-Trichloroethane

Concen: 0.04 ppbv

RT: 6.77 min Scan# 1769

Delta R.T. -0.00 min

Lab File: VL031217.D

Acq: 14 Dec 2017 1:33

Instrument :

MSVOA_L

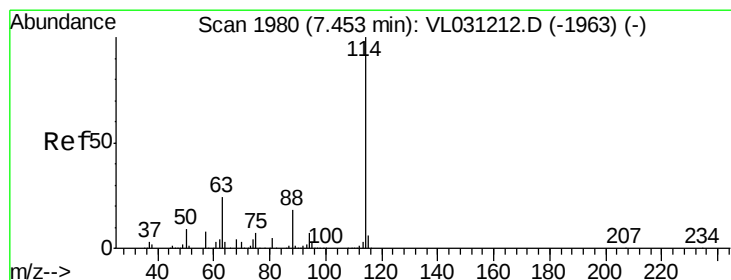
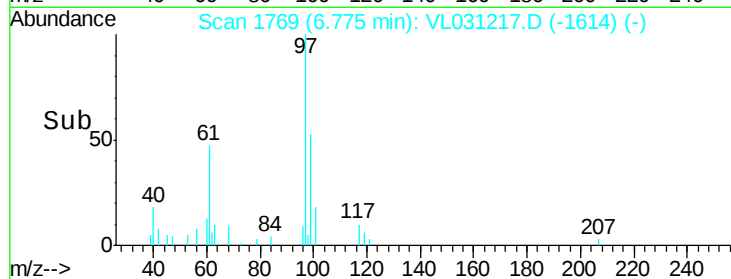
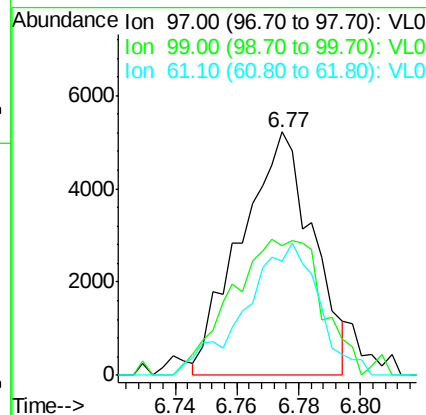
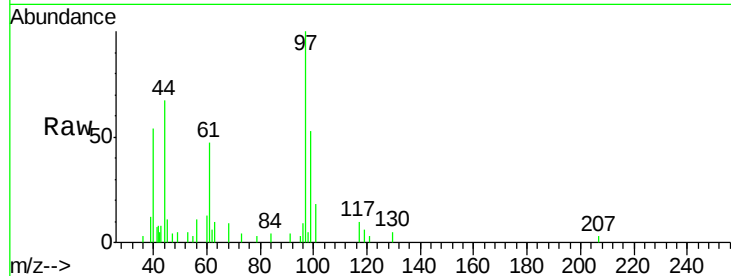
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	8407
Ion	Ratio	Lower	Upper
97	100		
99	72.9	51.4	77.0
61	56.1	38.4	57.6

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

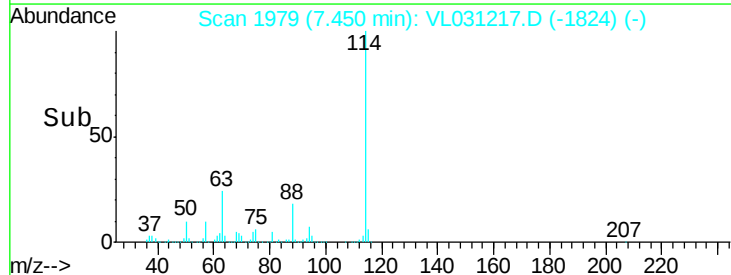
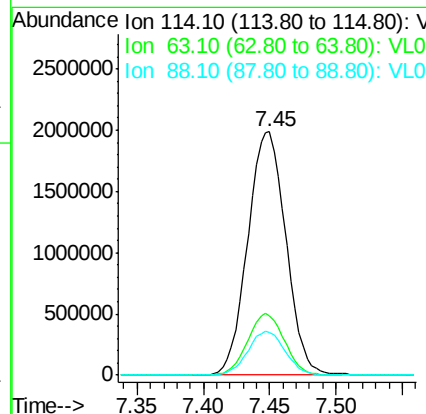
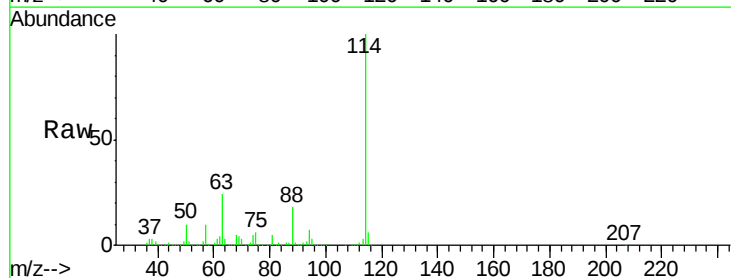
RT: 7.45 min Scan# 1979

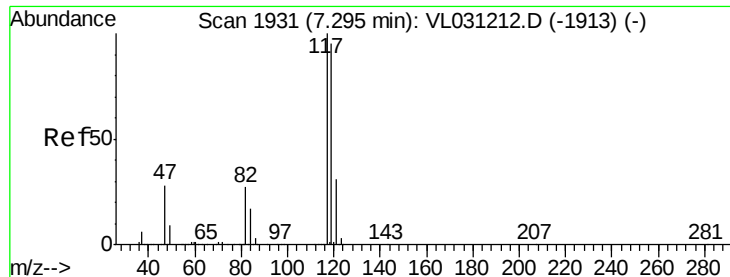
Delta R.T. -0.00 min

Lab File: VL031217.D

Acq: 14 Dec 2017 1:33

Tgt Ion:	114	Resp:	3978650
Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.8	29.8
88	17.8	14.2	21.4





#35

Carbon Tetrachloride

Concen: 0.03 ppbv m

RT: 7.29 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VL031217.D

Acq: 14 Dec 2017 1:33

Instrument :

MSVOA_L

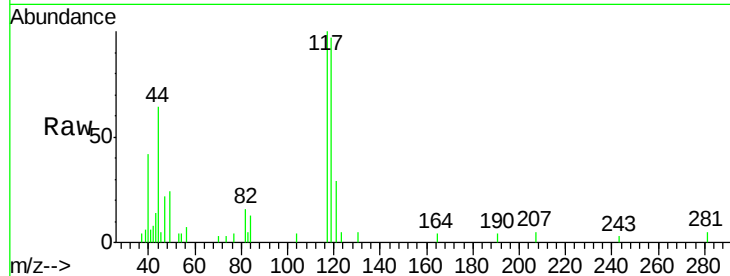
ClientSampleId :

VSTDIC0.03

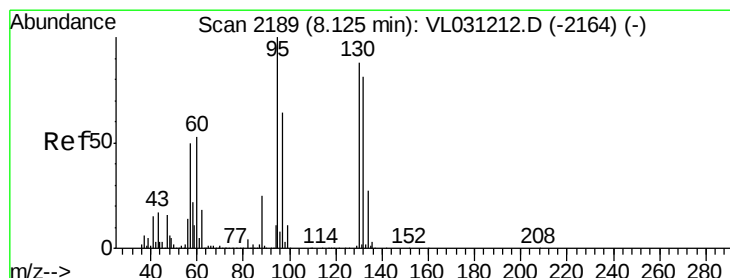
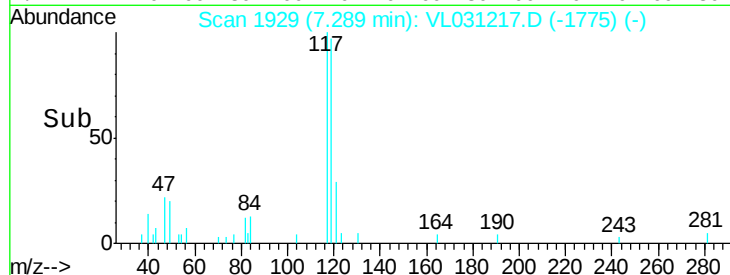
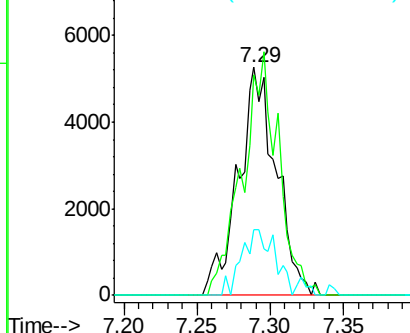
Tot Ion:	117	Resp:	9442
Ion	Ratio	Lower	Upper
117	100		
119	96.8	75.9	113.9
121	28.8	24.6	37.0

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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: 0.04 ppbv m

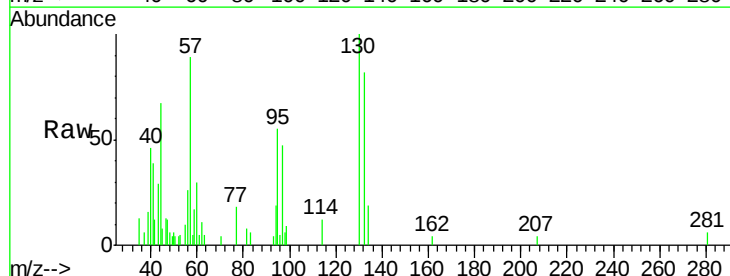
RT: 8.13 min Scan# 2190

Delta R.T. 0.00 min

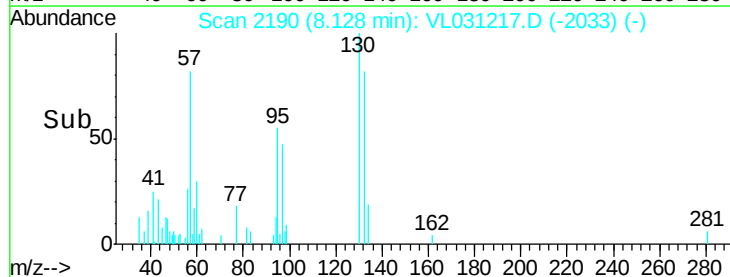
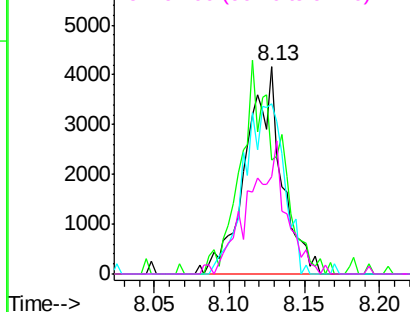
Lab File: VL031217.D

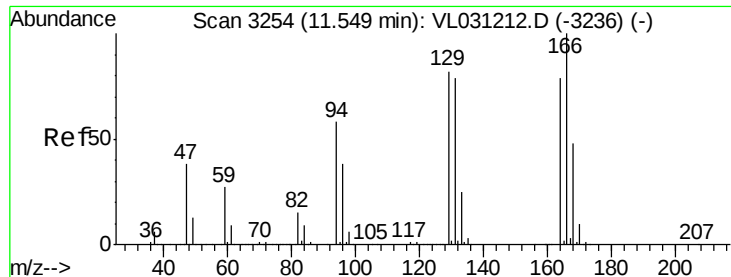
Acq: 14 Dec 2017 1:33

Tgt Ion:	130	Resp:	6855
Ion	Ratio	Lower	Upper
130	100		
95	54.8	90.6	135.8#
132	82.1	73.5	110.3
97	46.8	57.8	86.8#



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: 0.04 ppbv m

RT: 11.55 min Scan# 3253

Delta R.T. -0.00 min

Lab File: VL031217.D

Acq: 14 Dec 2017 1:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 5776

Ion Ratio Lower Upper

164 100

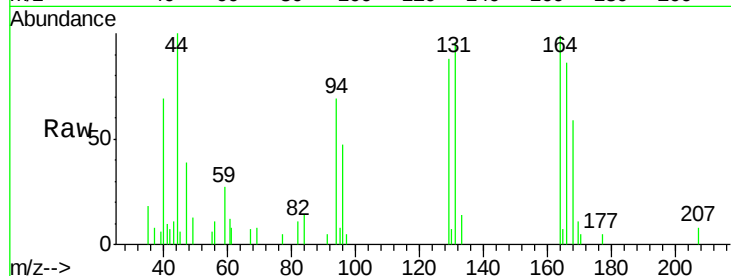
166 87.1 100.6 151.0#

129 88.5 82.9 124.3

131 97.1 79.2 118.8

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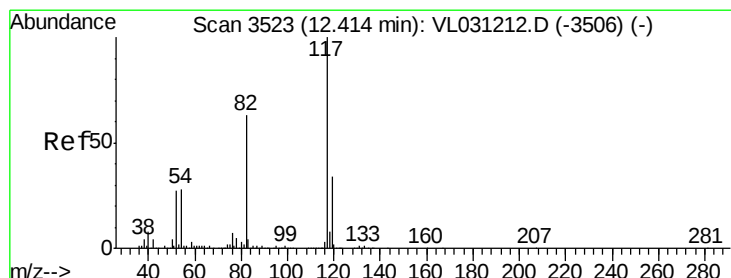
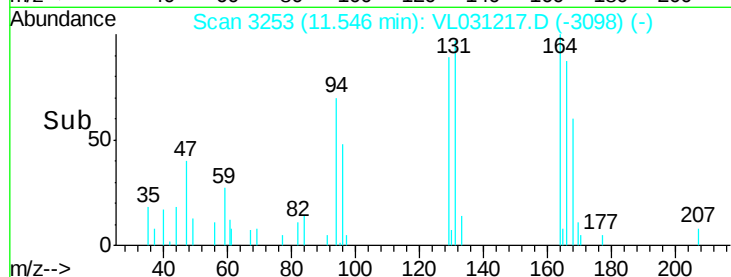
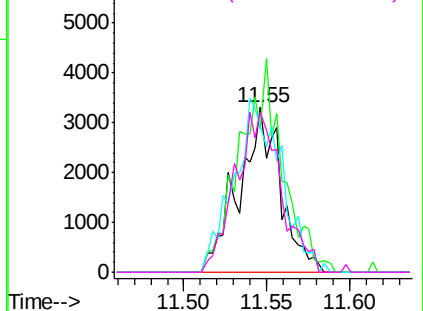


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.00 min

Lab File: VL031217.D

Acq: 14 Dec 2017 1:33

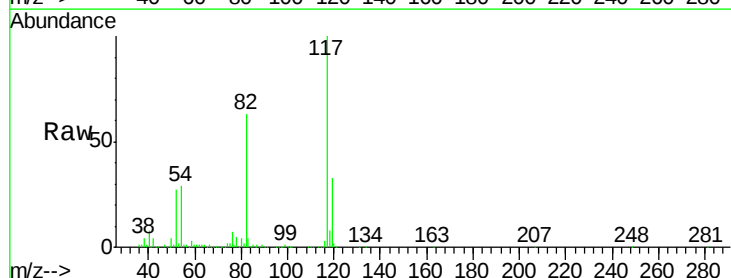
Tgt Ion:117 Resp: 3979768

Ion Ratio Lower Upper

117 100

82 63.1 48.1 72.1

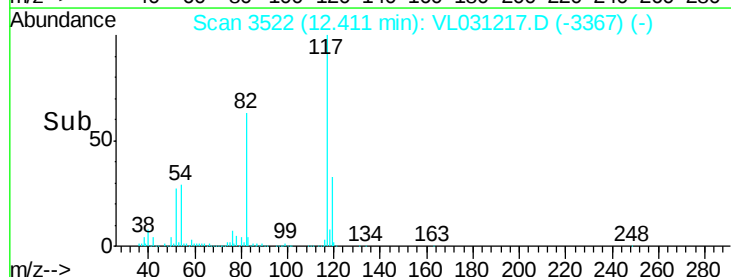
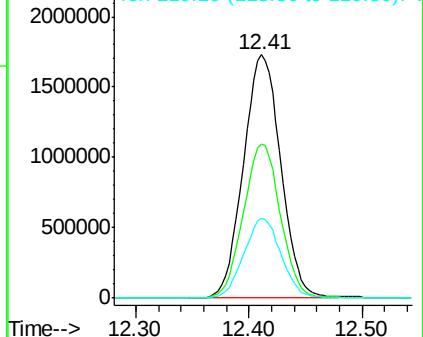
119 32.7 23.1 34.7

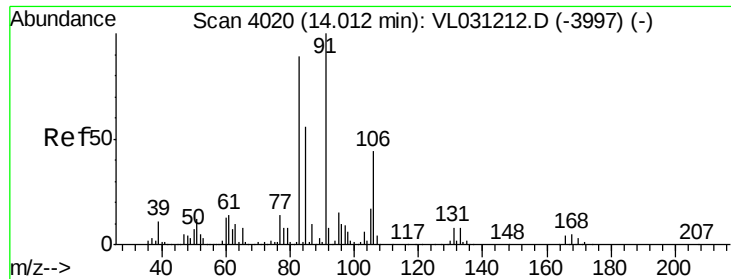


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





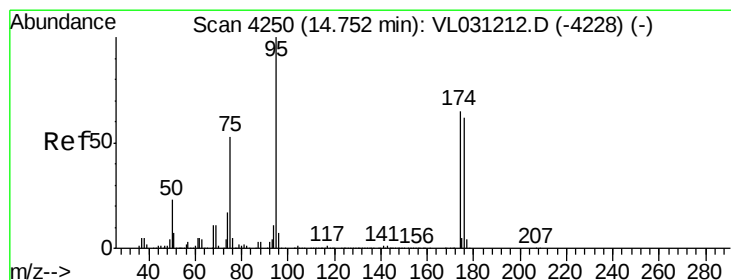
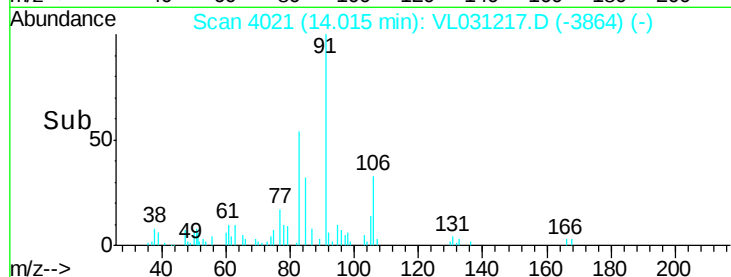
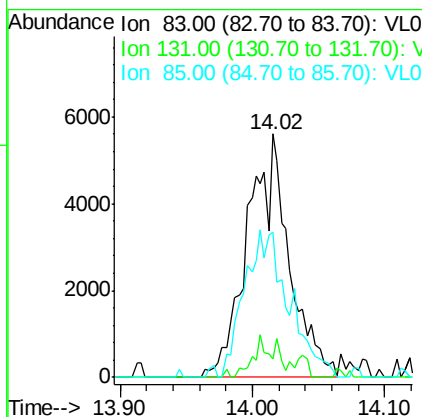
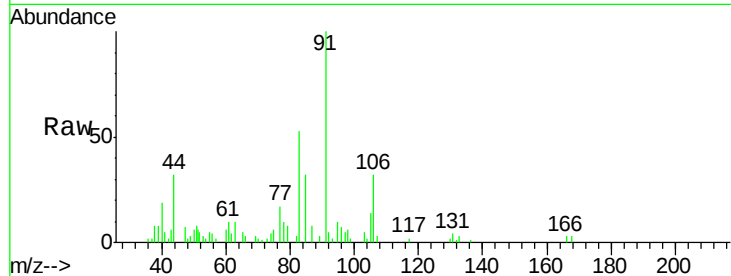
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.03 ppbv m
 RT: 14.02 min Scan# 4021
 Delta R.T. 0.00 min
 Lab File: VL031217.D
 Acq: 14 Dec 2017 1:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.9	4.8	14.3
85	65.8	32.1	96.5

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.61 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031217.D
 Acq: 14 Dec 2017 1:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.7	52.5	78.7
175	5.0	4.1	6.1

