

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032352.D
 Acq On : 15 Aug 2018 12:35
 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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 8/17/2018 2:06:31 PM

Quant Time: Aug 15 13:19:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 13:19:22 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2292036	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4800133	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4552070	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3535458	10.01	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.33	62	12286m	0.10	ppbv	
32) 1,1,1-Trichloroethane	6.68	97	28573m	0.10	ppbv	
35) Carbon Tetrachloride	7.19	117	26733m	0.10	ppbv	
38) Trichloroethene	8.02	130	11697m	0.07	ppbv	
52) Tetrachloroethene	11.43	164	10852m	0.08	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.90	83	37882m	0.10	ppbv	

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

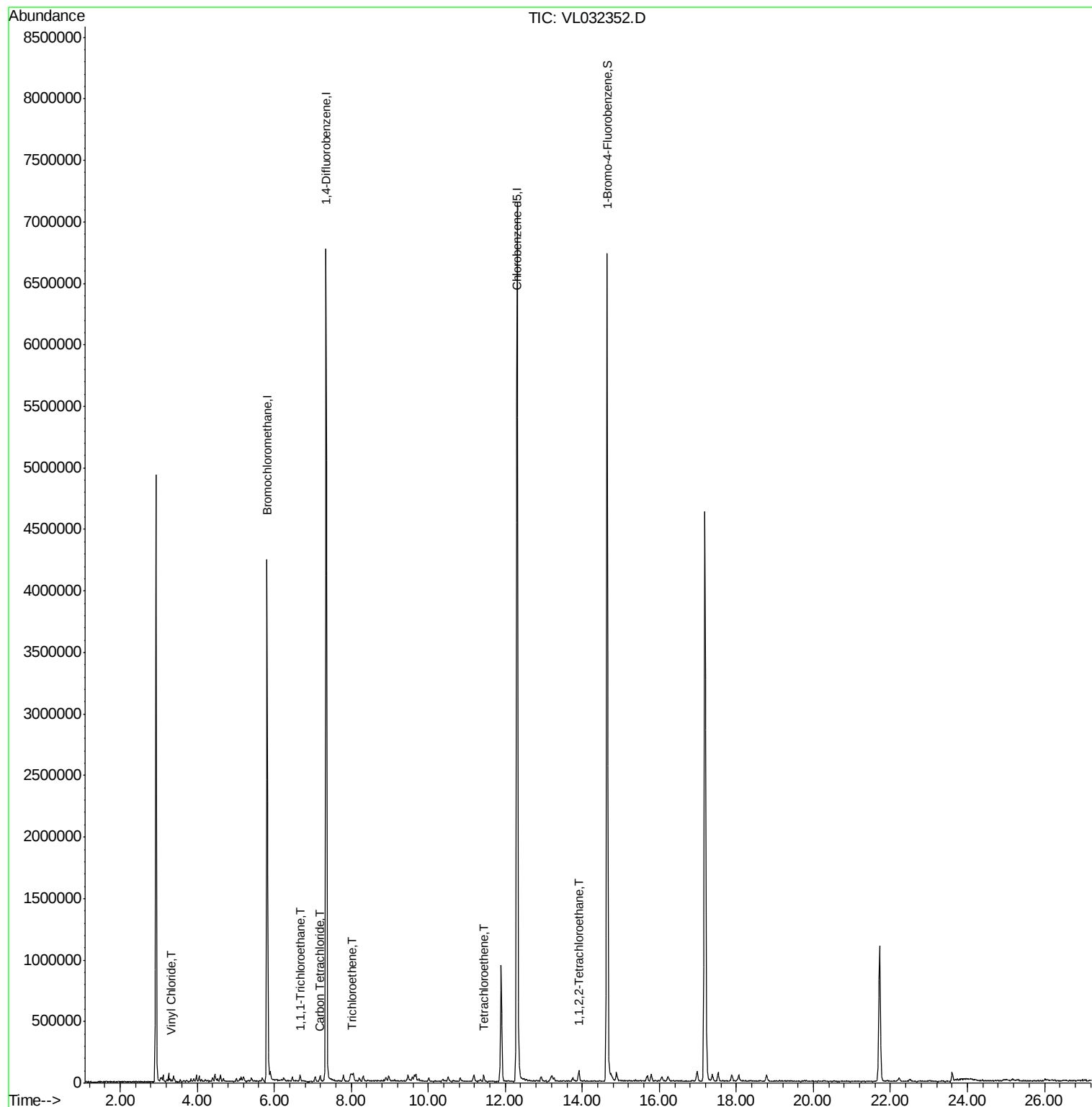
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032352.D
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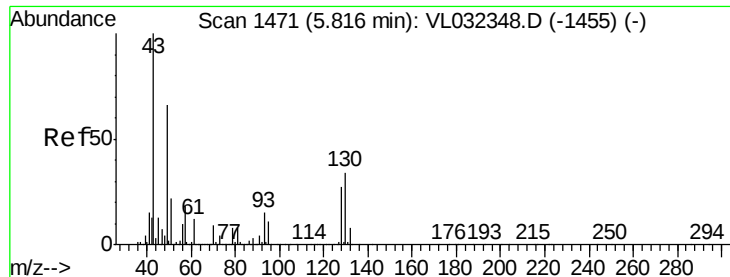
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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Quant Time: Aug 15 13:19:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 11:44:08 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 2292036

Ion Ratio Lower Upper

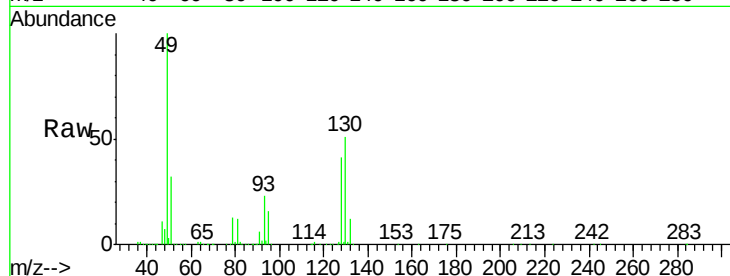
49 100

128 40.2 20.2 60.6

130 50.7 25.8 77.3

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.82

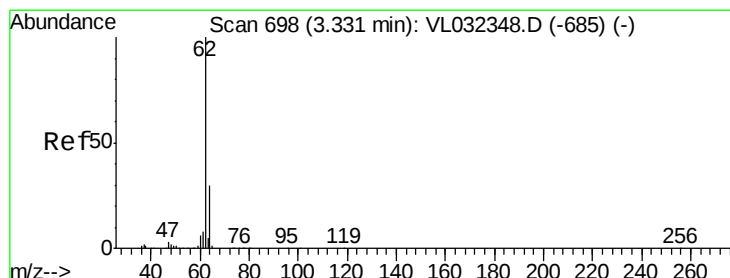
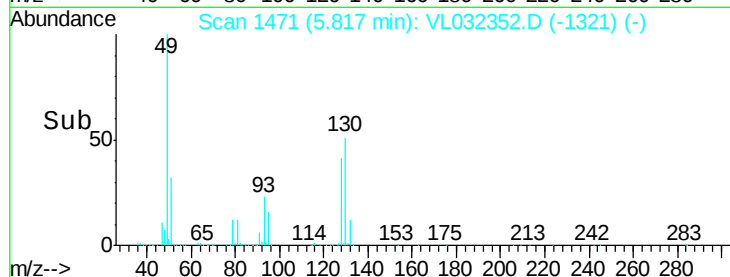
1500000

1000000

500000

0

Time-->



#5

Vinyl Chloride

Concen: 0.10 ppbv m

RT: 3.33 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL032352.D

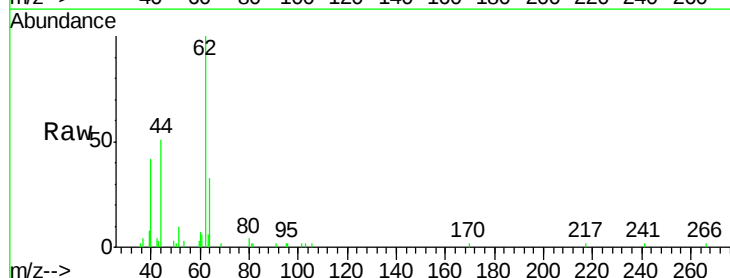
Acq: 15 Aug 2018 12:35

Tgt Ion: 62 Resp: 12286

Ion Ratio Lower Upper

62 100

64 32.7 24.1 36.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.33

10000

8000

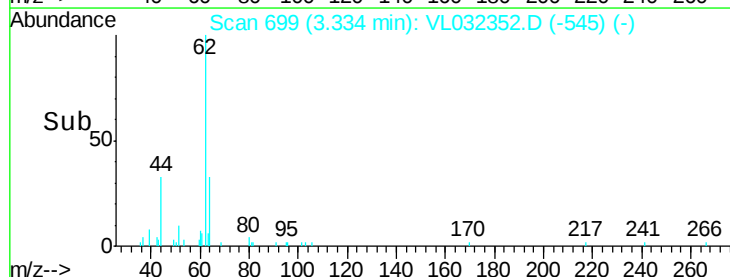
6000

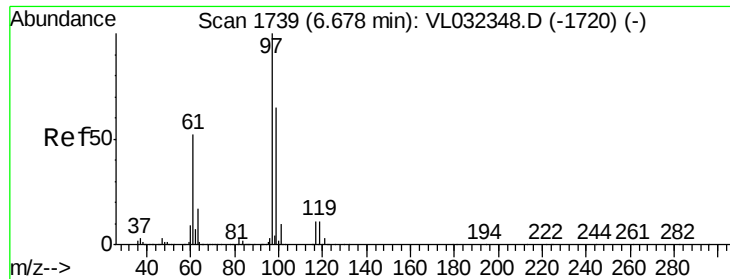
4000

2000

0

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.10 ppbv m

RT: 6.68 min Scan# 1740

Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Instrument :

MSVOA_L

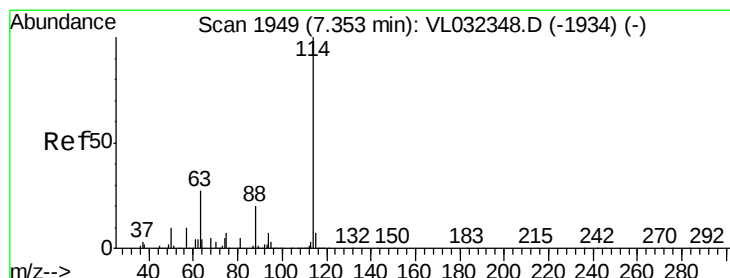
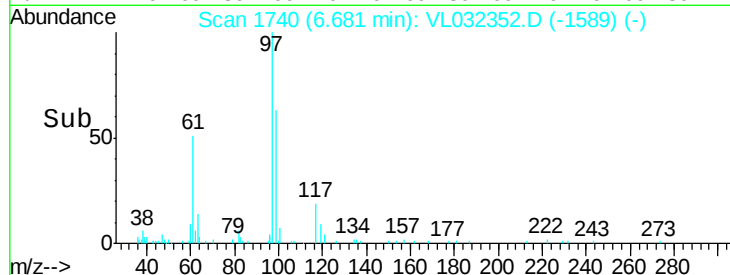
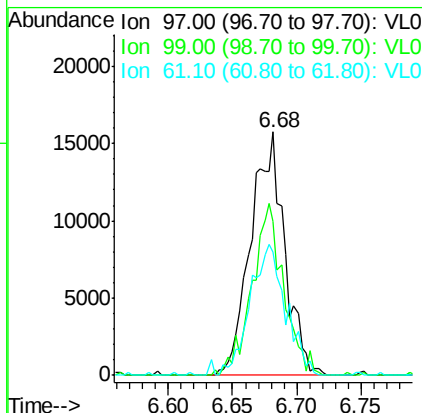
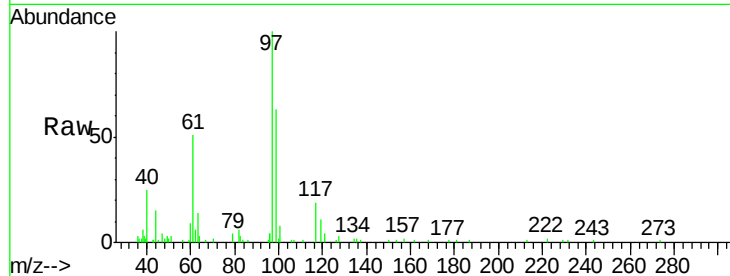
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	28573
Ion Ratio	Lower	Upper	
97	100		
99	0.0	50.9	76.3#
61	0.0	41.8	62.6#

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

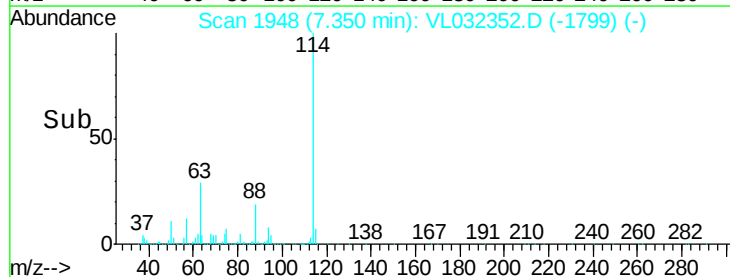
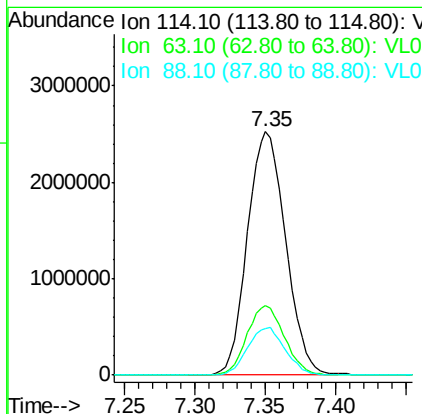
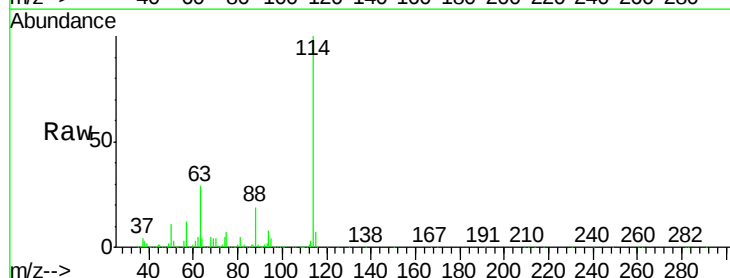
RT: 7.35 min Scan# 1948

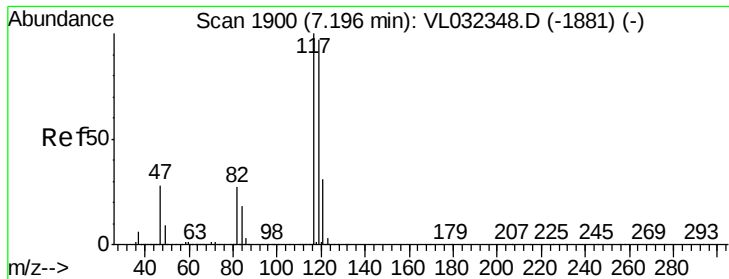
Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Tgt Ion:	114	Resp:	4800133
Ion Ratio	Lower	Upper	
114	100		
63	28.2	22.4	33.6
88	19.3	15.3	22.9





#35

Carbon Tetrachloride

Concen: 0.10 ppbv m

RT: 7.19 min Scan# 1899

Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Instrument :

MSVOA_L

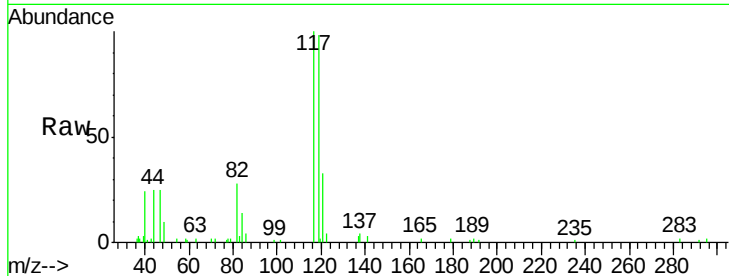
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	26733
Ion Ratio	Lower	Upper	
117	100		
119	97.5	76.1	114.1
121	33.0	24.4	36.6

Manual Integrations
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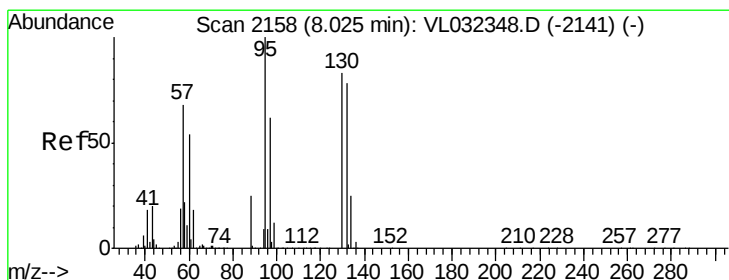
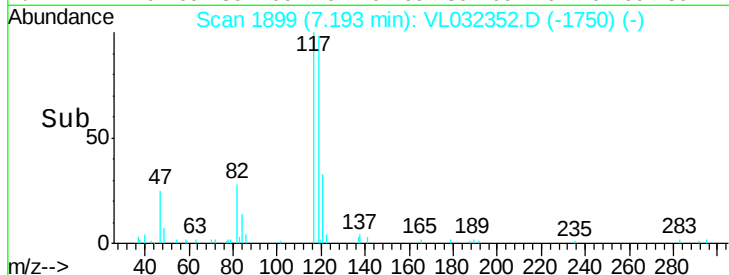
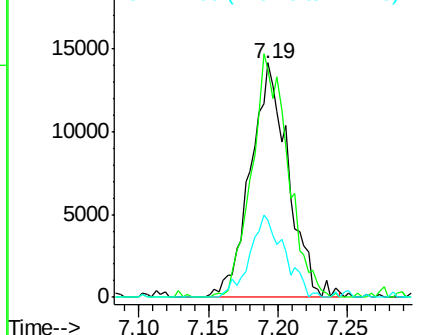


Abundance

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: 0.07 ppbv m

RT: 8.02 min Scan# 2157

Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Tgt Ion:	130	Resp:	11697
Ion Ratio	Lower	Upper	
130	100		
95	84.9	92.9	139.3#
132	76.8	73.0	109.4
97	80.1	59.6	89.4

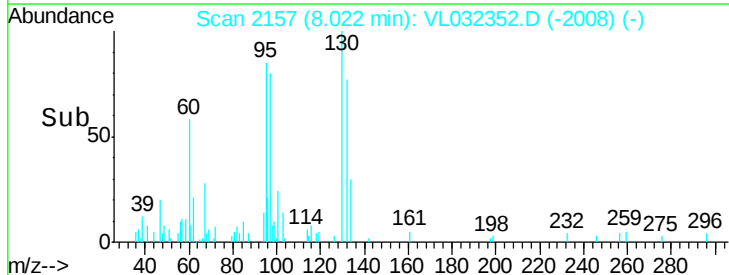
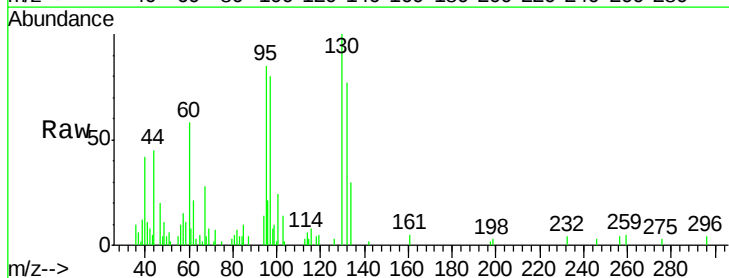
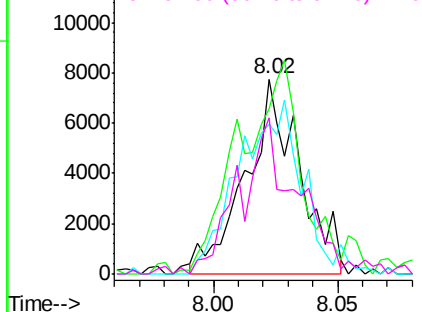
Abundance

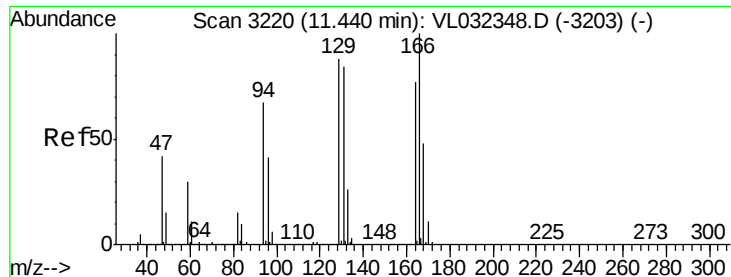
Ion 130.00 (129.70 to 130.70): V

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: 0.08 ppbv m

RT: 11.43 min Scan# 3216

Delta R.T. -0.04 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.1

Tot Ion:164 Resp: 10852

Ion Ratio Lower Upper

164 100

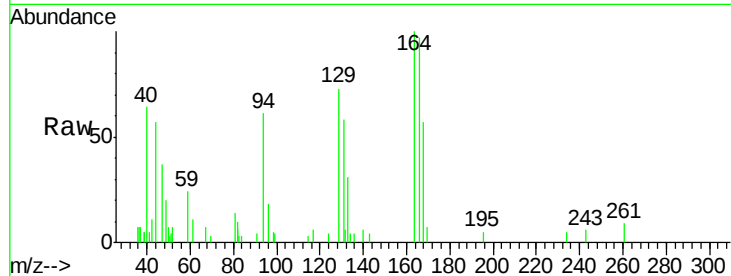
166 97.1 100.0 150.0#

129 72.6 87.9 131.9#

131 58.5 83.8 125.8#

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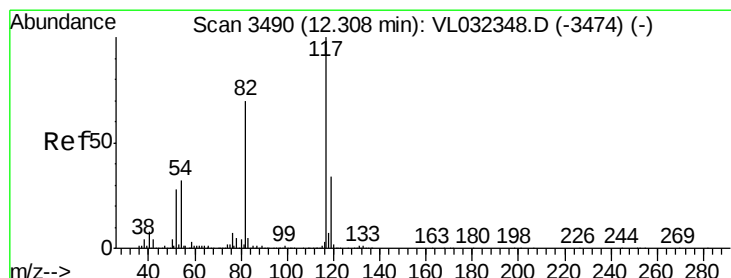
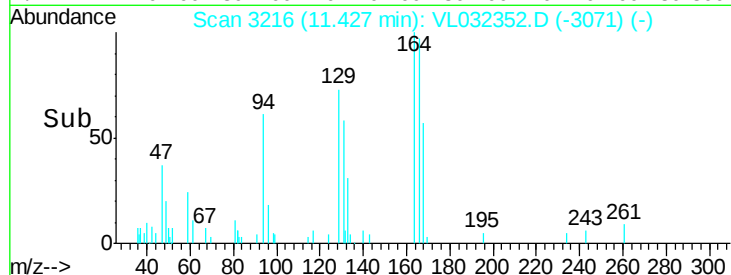
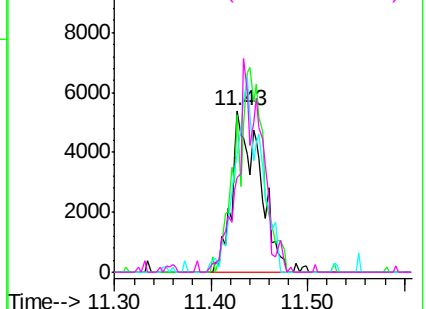


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.31 min Scan# 3489

Delta R.T. -0.02 min

Lab File: VL032352.D

Acq: 15 Aug 2018 12:35

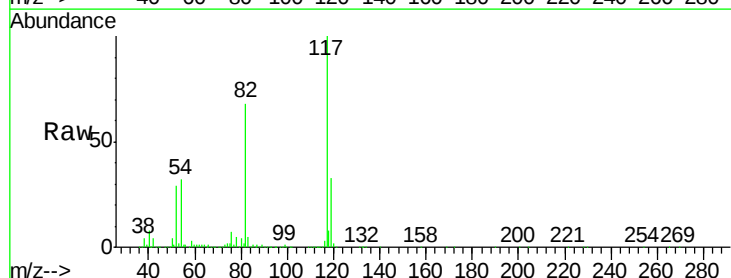
Tgt Ion:117 Resp: 4552070

Ion Ratio Lower Upper

117 100

82 69.1 52.6 78.8

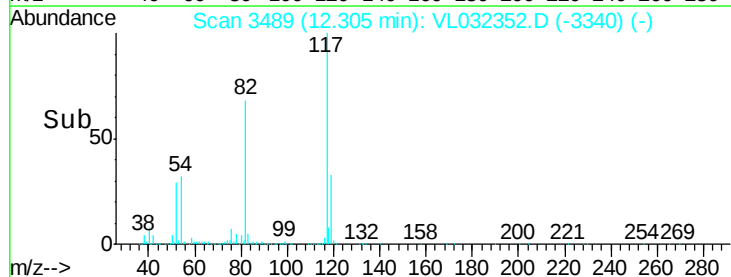
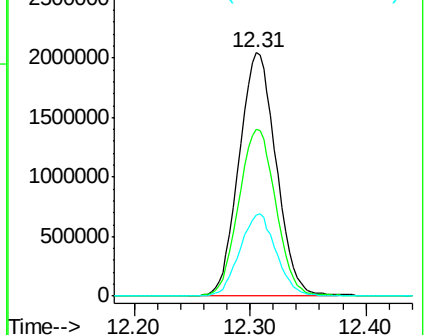
119 33.3 25.7 38.5

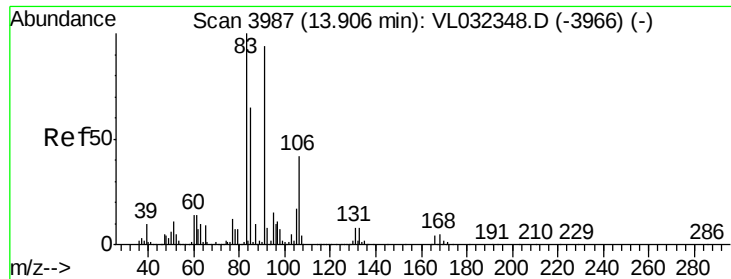


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





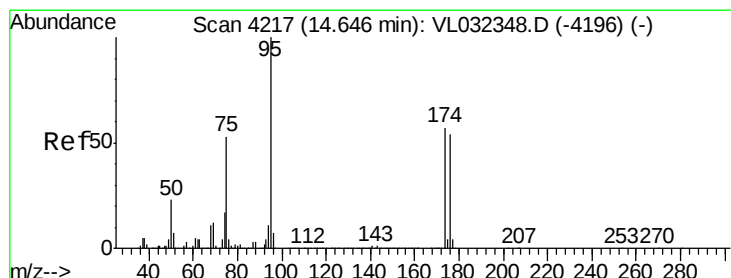
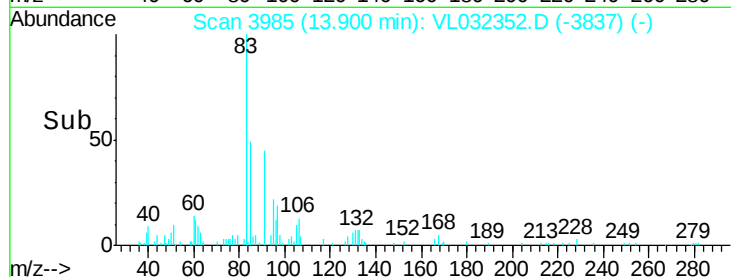
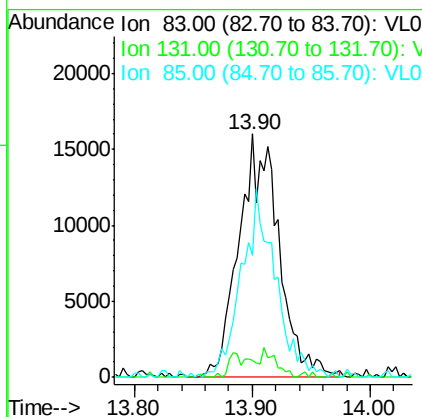
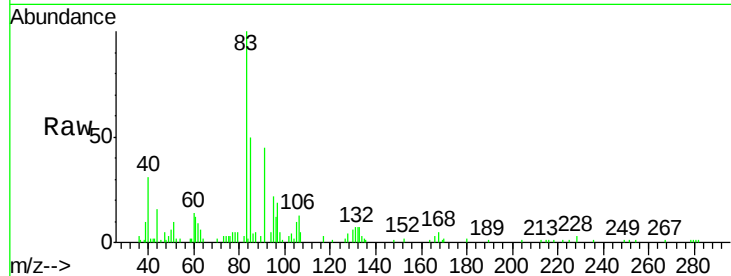
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv m
 RT: 13.90 min Scan# 3985
 Delta R.T. -0.03 min
 Lab File: VL032352.D
 Acq: 15 Aug 2018 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.3	12.8#
85	66.9	32.6	97.7

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.01 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.03 min
 Lab File: VL032352.D
 Acq: 15 Aug 2018 12:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.5	45.5	68.3
175	4.0	3.3	4.9

