

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034125.D
 Acq On : 5 Sep 2019 5:45
 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

MMDadoda
 9/12/2019 5:15:02 AM

Quant Time: Sep 05 10:22:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1213522	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2133942	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2122761	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1788092	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	2670m	0.035	ppbv	
32) 1,1,1-Trichloroethane	6.56	97	6369m	0.035	ppbv	
35) Carbon Tetrachloride	7.08	117	6597m	0.040	ppbv	
38) Trichloroethene	7.90	130	3718m	0.041	ppbv	
52) Tetrachloroethene	11.31	164	3488m	0.041	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.78	83	10217m	0.044	ppbv	

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

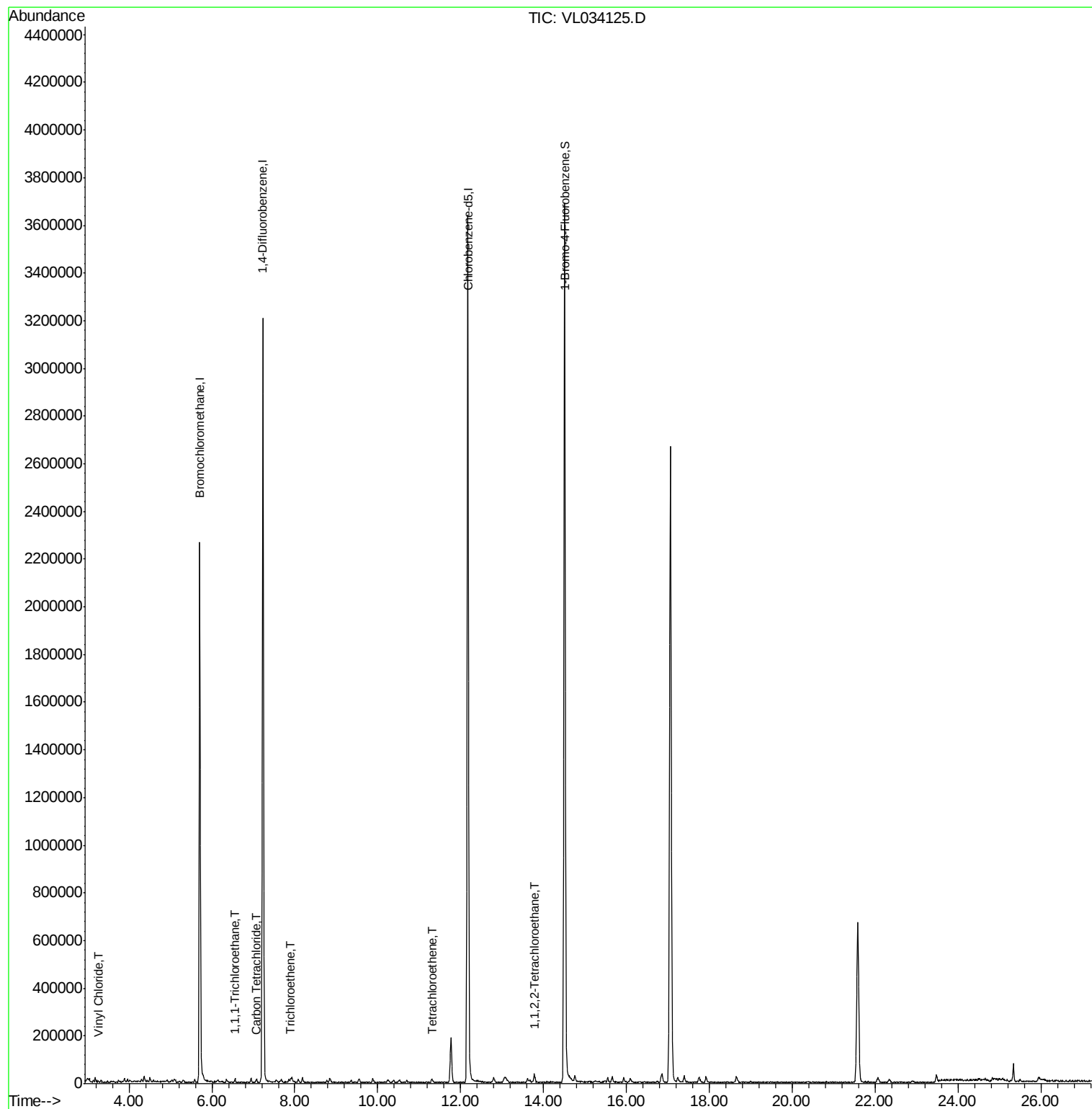
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
Data File : VL034125.D
Acq On : 5 Sep 2019 5:45
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

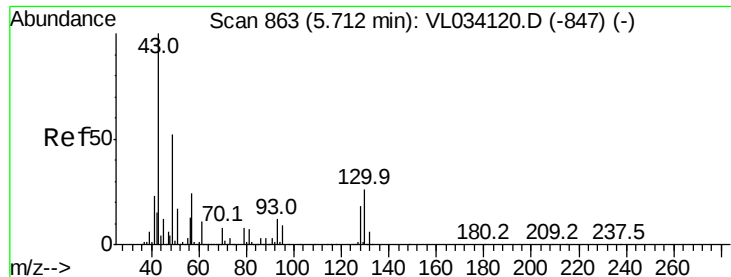
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
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QLast Update : Thu Sep 05 09:42:59 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1213522

Ion Ratio Lower Upper

49 100

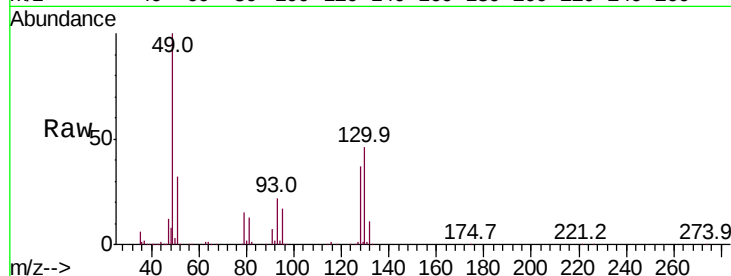
128 36.4 18.4 55.0

130 47.1 23.5 70.6

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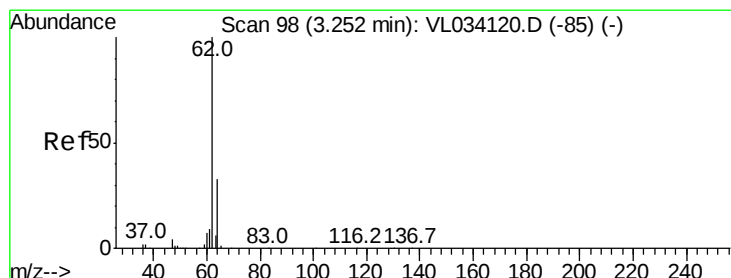
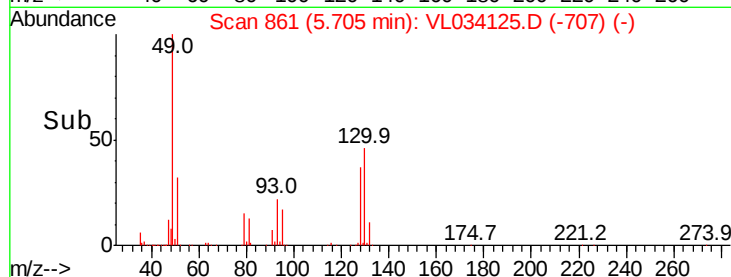
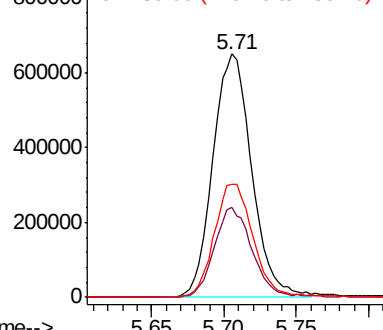
9/12/2019 5:15:02 AM



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: 0.035 ppbv m

RT: 3.25 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034125.D

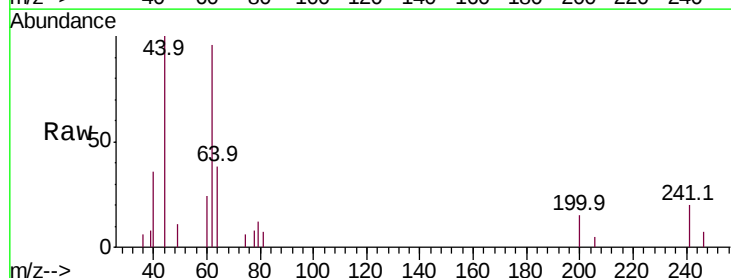
Acq: 5 Sep 2019 5:45

Tgt Ion: 62 Resp: 2670

Ion Ratio Lower Upper

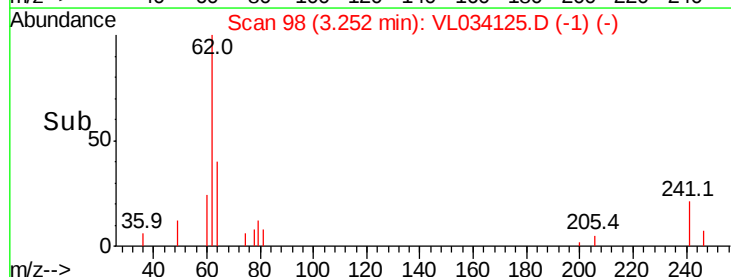
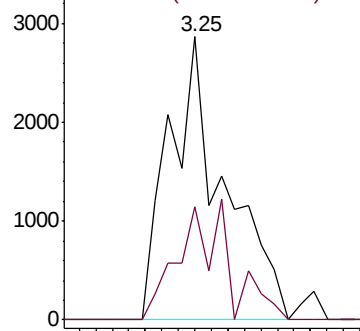
62 100

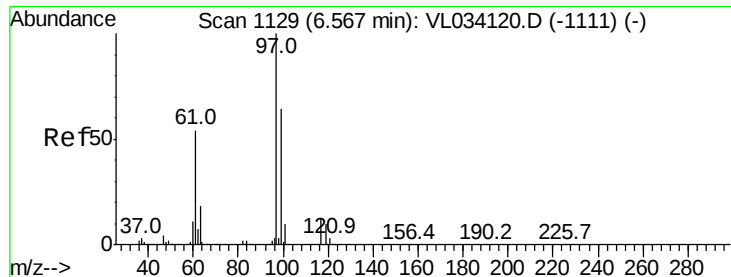
64 39.9 26.6 39.8#



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: 0.035 ppbv m

RT: 6.56 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 97 Resp: 6369

Ion Ratio Lower Upper

97 100

99 70.4 51.7 77.5

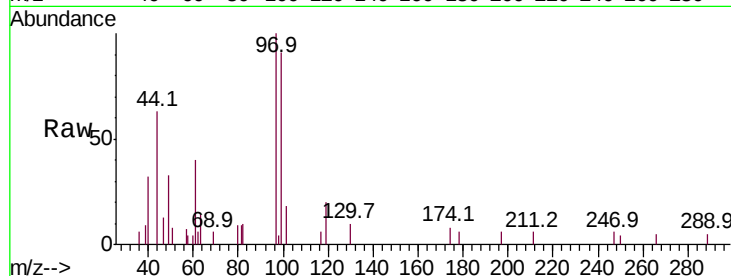
61 68.2 44.0 66.0#

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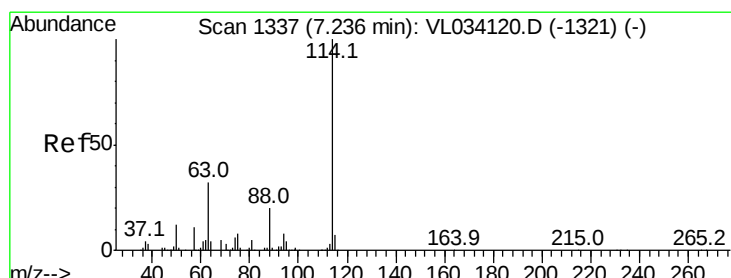
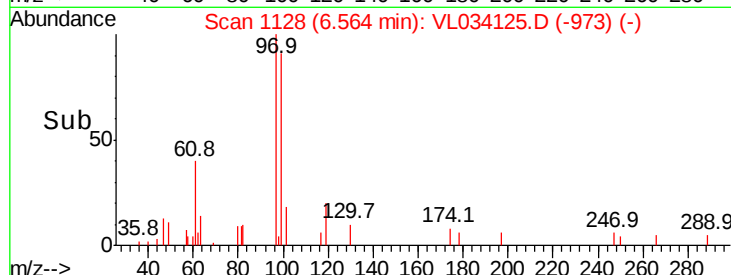
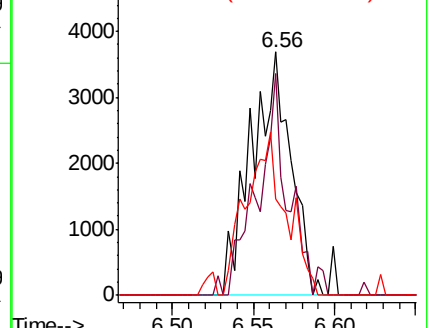
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Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.23 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

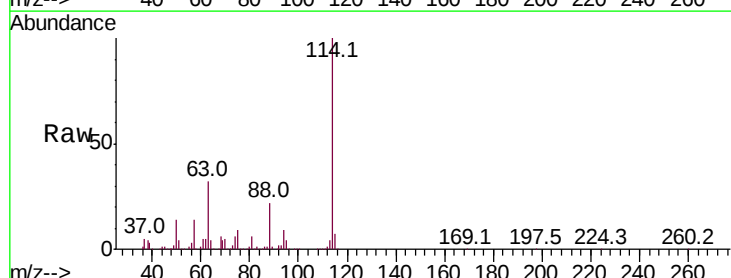
Tgt Ion: 114 Resp: 2133942

Ion Ratio Lower Upper

114 100

63 31.6 25.5 38.3

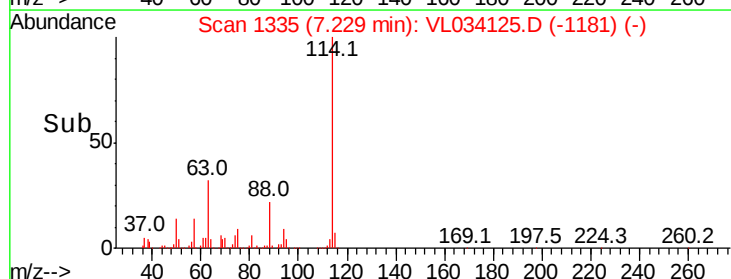
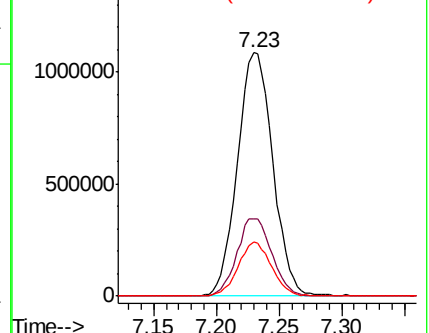
88 21.1 16.8 25.2

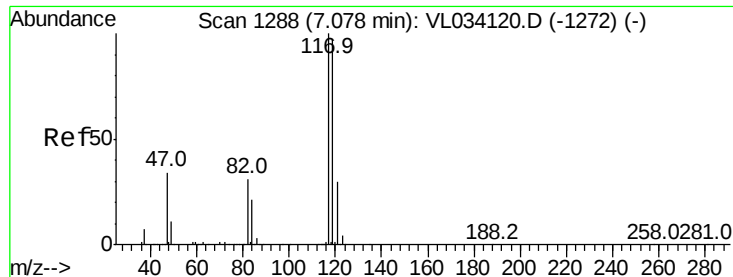


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





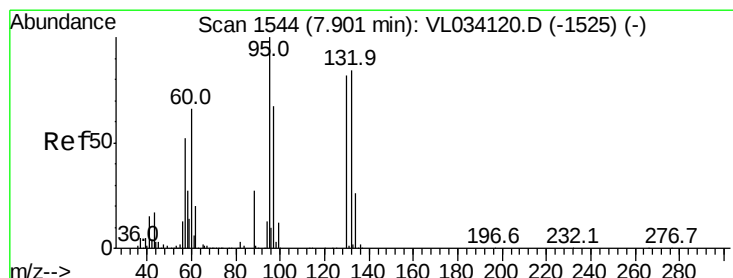
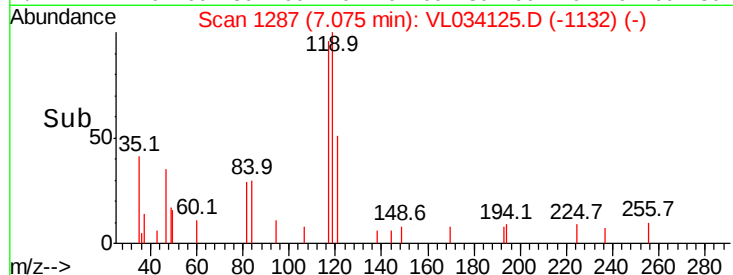
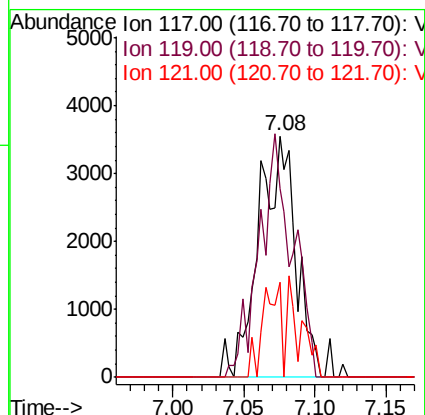
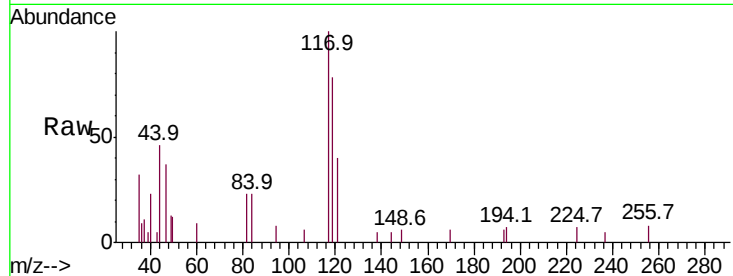
#35
Carbon Tetrachloride
Concen: 0.040 ppbv m
RT: 7.08 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	78.3	77.2	115.8
121	39.6	24.2	36.4

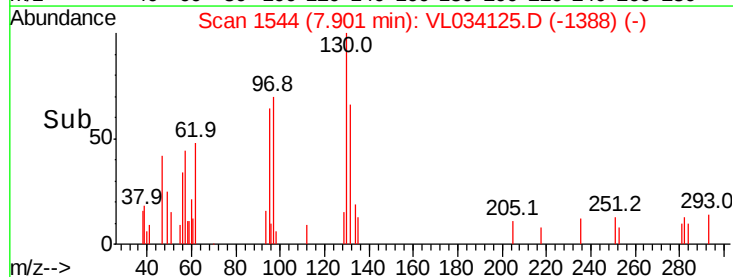
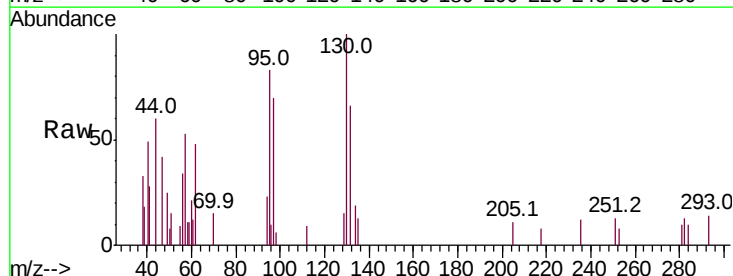
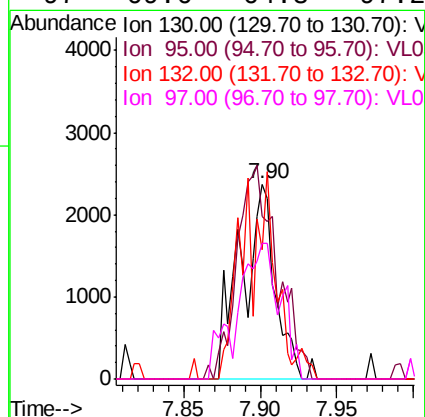
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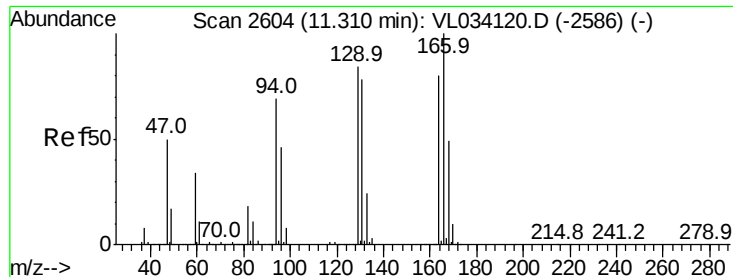
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#38
Trichloroethene
Concen: 0.041 ppbv m
RT: 7.90 min Scan# 1544
Delta R.T. 0.00 min
Lab File: VL034125.D
Acq: 5 Sep 2019 5:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	83.5	97.2	145.8
132	66.1	81.4	122.2
97	69.6	64.8	97.2





#52

Tetrachloroethene

Concen: 0.041 ppbv m

RT: 11.31 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 3488

Ion Ratio Lower Upper

164 100

166 105.7 99.5 149.3

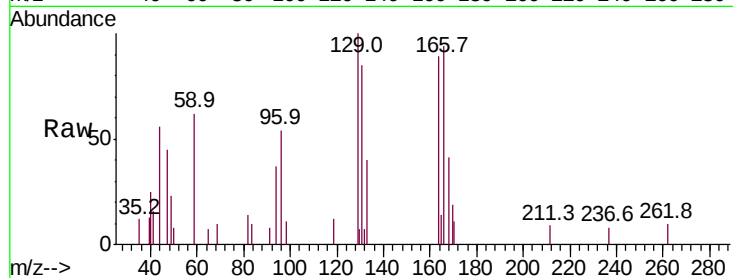
129 112.8 83.6 125.4

131 96.2 77.9 116.9

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9/12/2019 5:15:02 AM



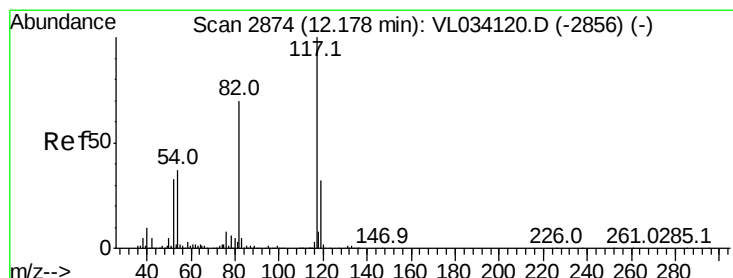
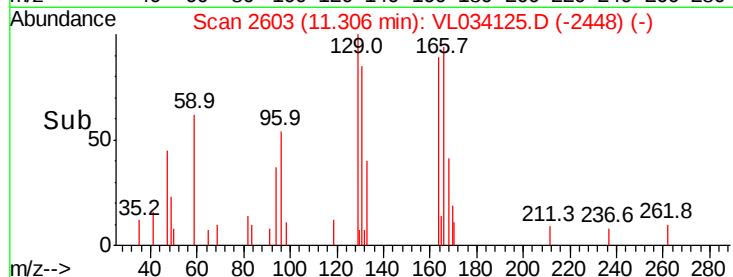
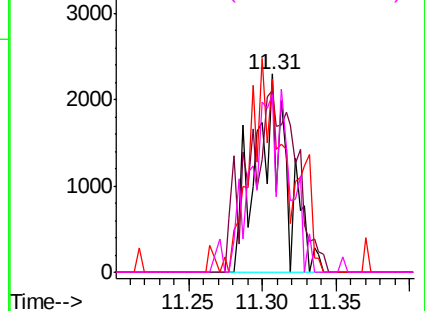
Abundance

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: 10.000 ppbv

RT: 12.17 min Scan# 2872

Delta R.T. -0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

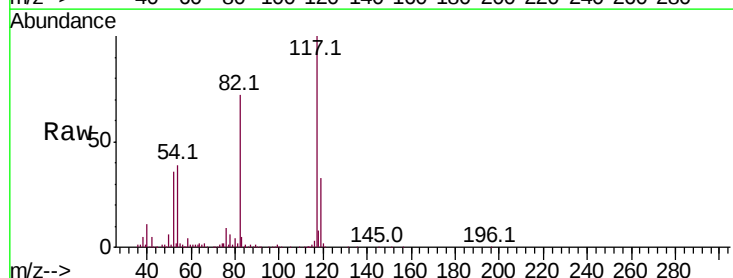
Tgt Ion:117 Resp: 2122761

Ion Ratio Lower Upper

117 100

82 75.9 55.8 83.6

119 33.1 43.1 64.7#

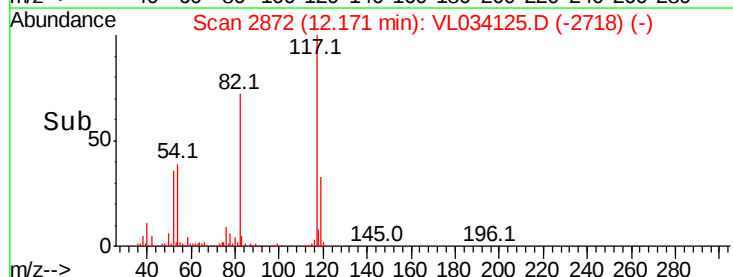
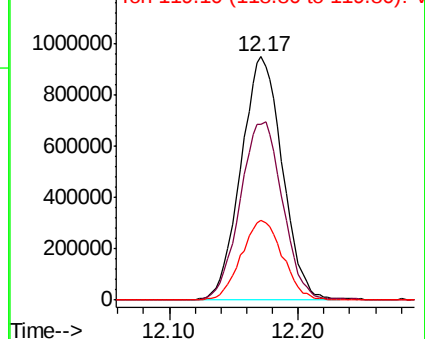


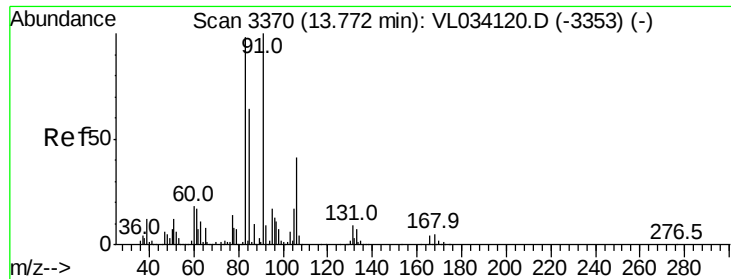
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.044 ppbv m

RT: 13.78 min Scan# 3372

Delta R.T. 0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 10217

Ion Ratio Lower Upper

83 100

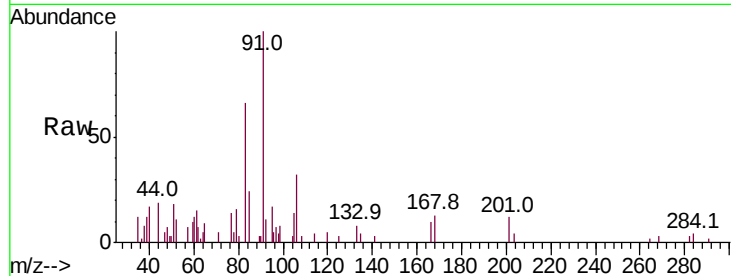
131 0.0 4.3 12.8#

85 0.0 32.5 97.5#

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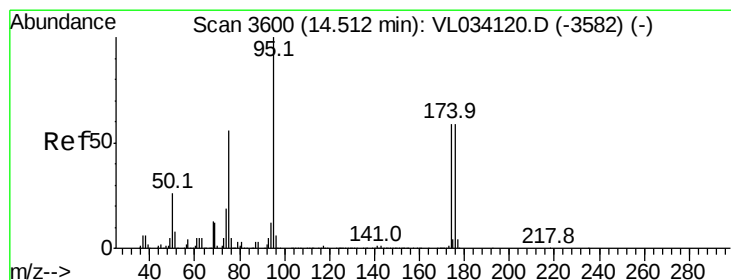
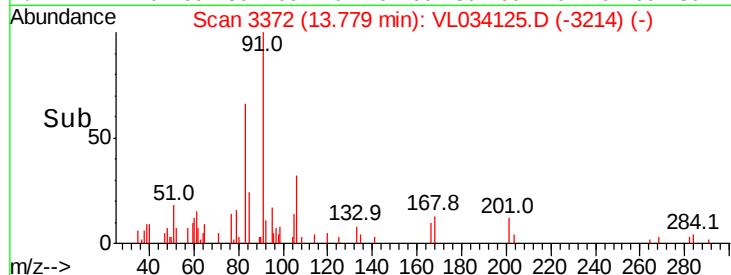
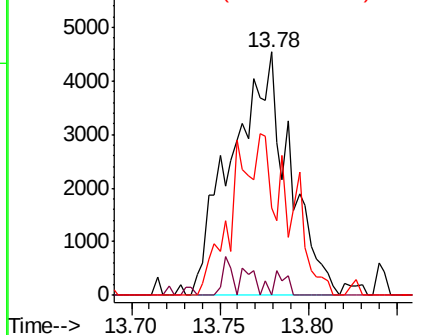
9/12/2019 5:15:02 AM



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: 10.304 ppbv

RT: 14.51 min Scan# 3598

Delta R.T. -0.01 min

Lab File: VL034125.D

Acq: 5 Sep 2019 5:45

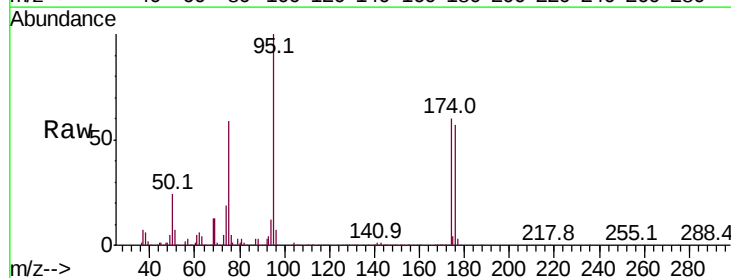
Tgt Ion: 95 Resp: 1788092

Ion Ratio Lower Upper

95 100

174 62.5 48.1 72.1

175 4.4 3.5 5.3



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

