

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034124.D
 Acq On : 5 Sep 2019 5:06
 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

MMDadoda
 9/12/2019 5:15:00 AM

Quant Time: Sep 05 10:13:59 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	1223603	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2155642	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2170923	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1833495	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	8135	0.105	ppbv	# 70
32) 1,1,1-Trichloroethane	6.56	97	17858m	0.098	ppbv	
35) Carbon Tetrachloride	7.07	117	15458m	0.093	ppbv	
38) Trichloroethene	7.89	130	11624m	0.128	ppbv	
52) Tetrachloroethene	11.31	164	9144m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	24136m	0.102	ppbv	

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

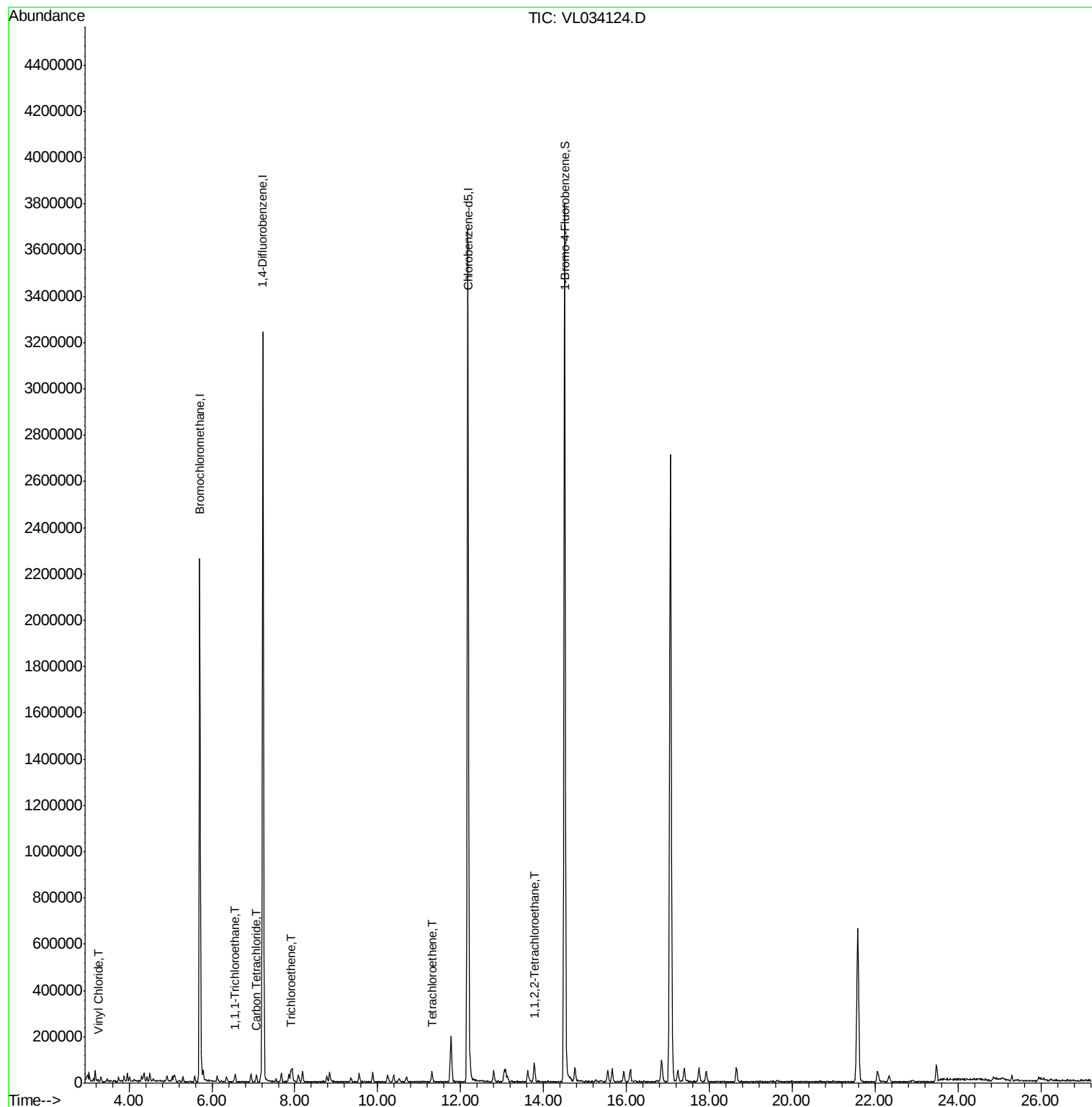
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
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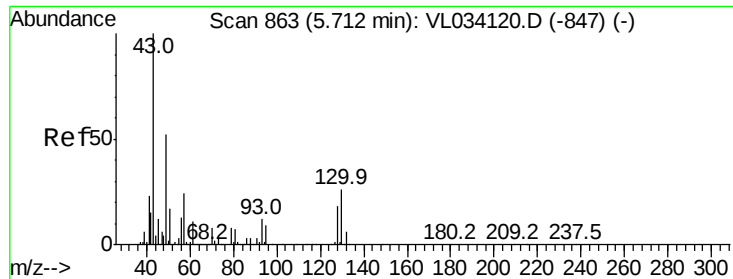
Instrument :
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1223603

Ion Ratio Lower Upper

49 100

128 36.3 18.4 55.0

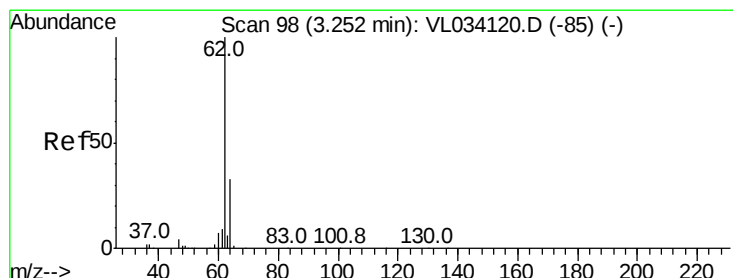
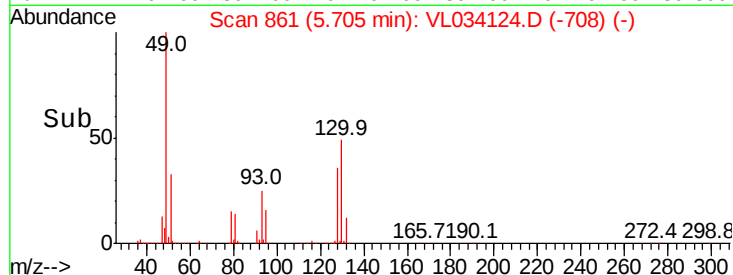
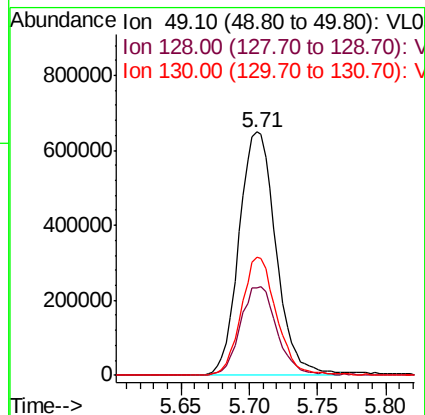
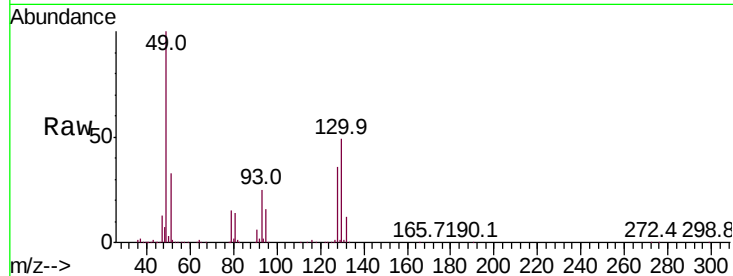
130 46.4 23.5 70.6

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.105 ppbv

RT: 3.25 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034124.D

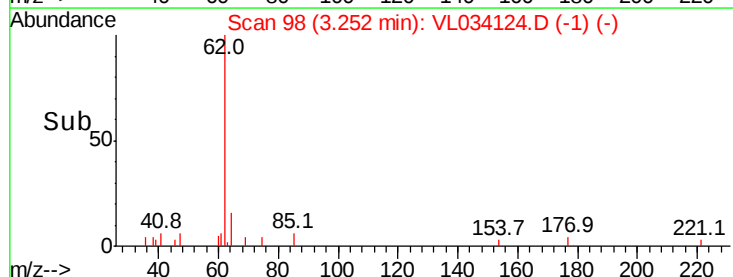
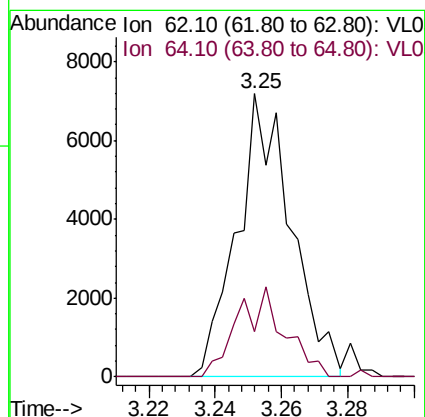
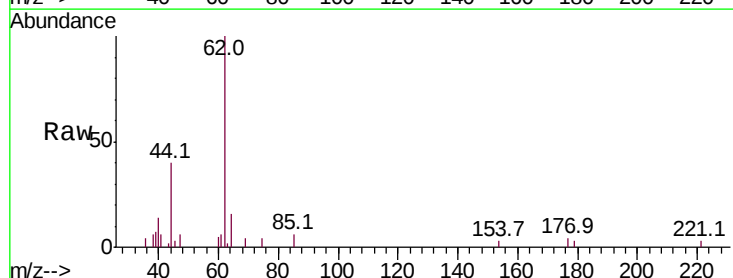
Acq: 5 Sep 2019 5:06

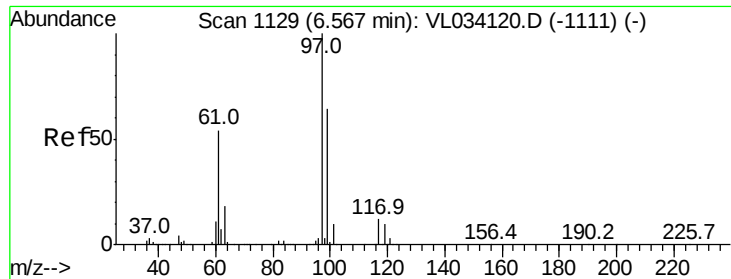
Tgt Ion: 62 Resp: 8135

Ion Ratio Lower Upper

62 100

64 16.2 26.6 39.8#





#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv m

RT: 6.56 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Instrument :

MSVOA_L

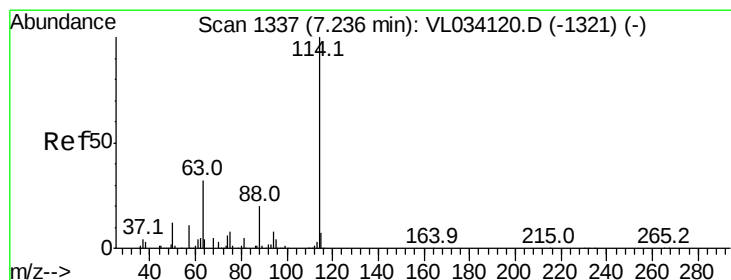
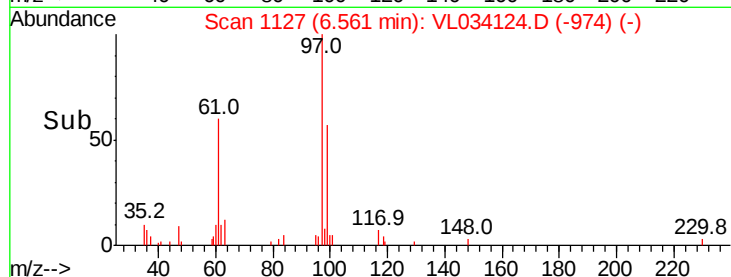
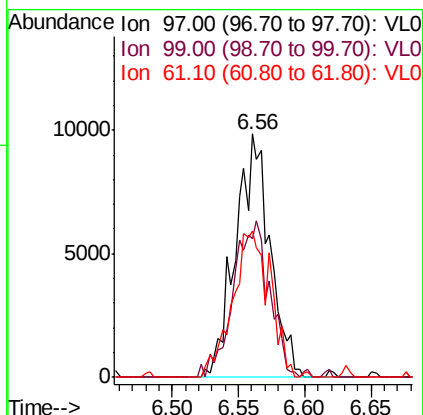
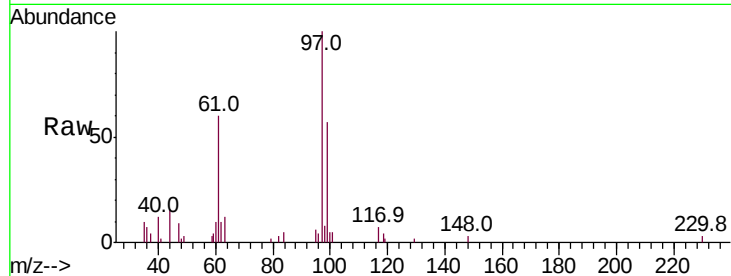
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	17858
Ion	Ratio	Lower	Upper
97	100		
99	67.1	51.7	77.5
61	65.4	44.0	66.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

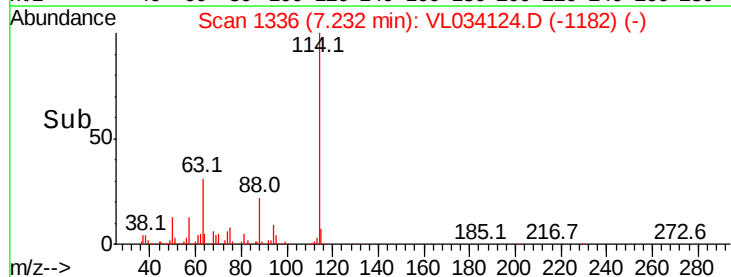
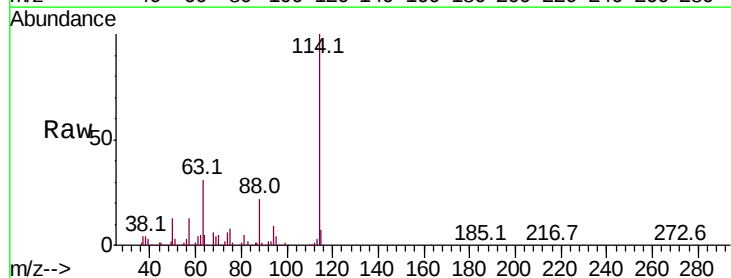
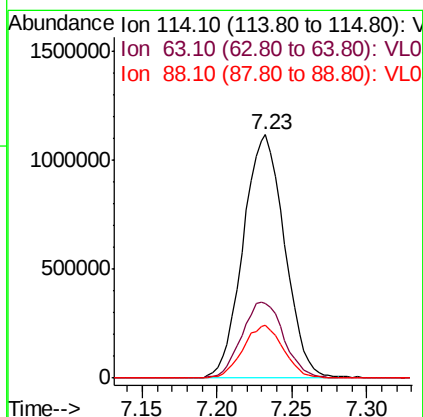
RT: 7.23 min Scan# 1336

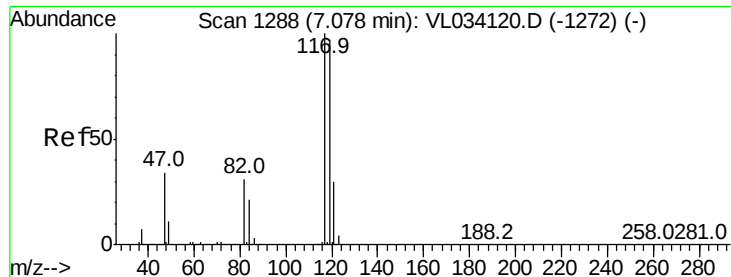
Delta R.T. -0.00 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Tgt Ion:	114	Resp:	2155642
Ion	Ratio	Lower	Upper
114	100		
63	31.8	25.5	38.3
88	21.1	16.8	25.2





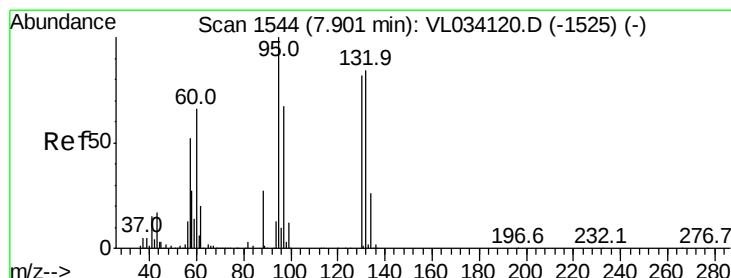
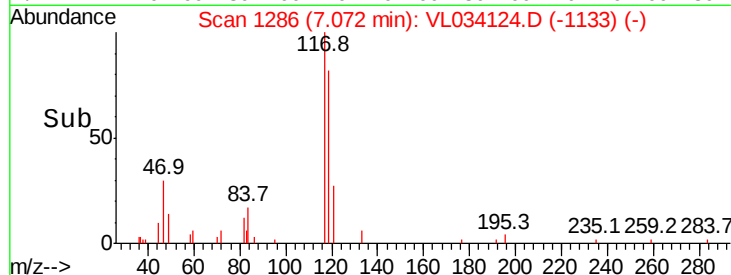
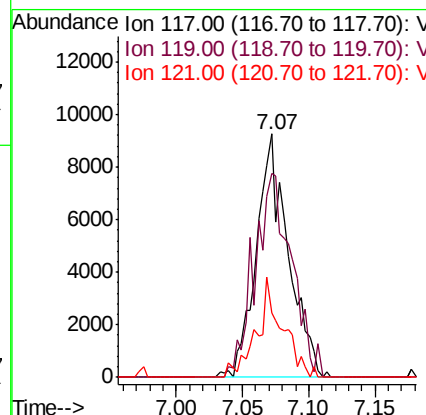
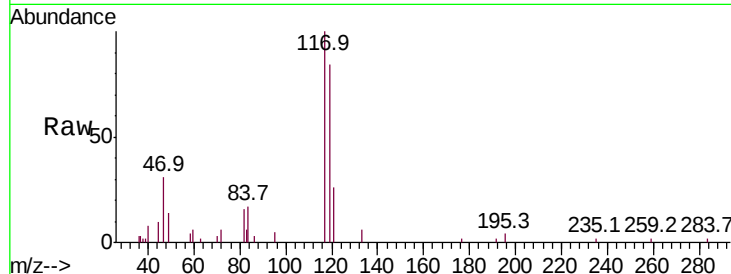
#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 7.07 min Scan# 1286
Delta R.T. -0.01 min
Lab File: VL034124.D
Acq: 5 Sep 2019 5:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Resp	Lower	Upper
117	100	15458		
119	83.6	77.2	115.8	
121	26.3	24.2	36.4	

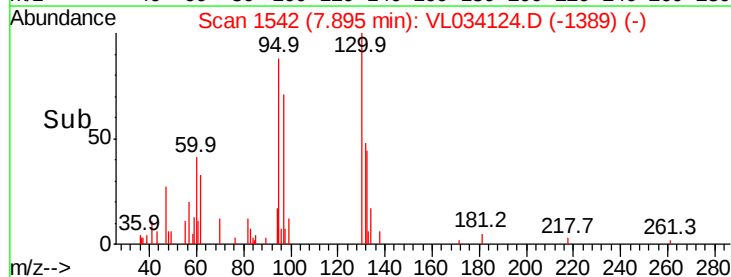
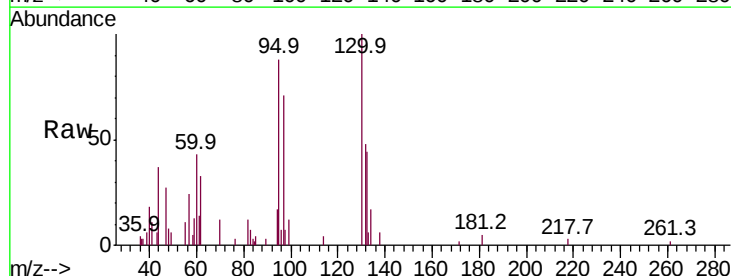
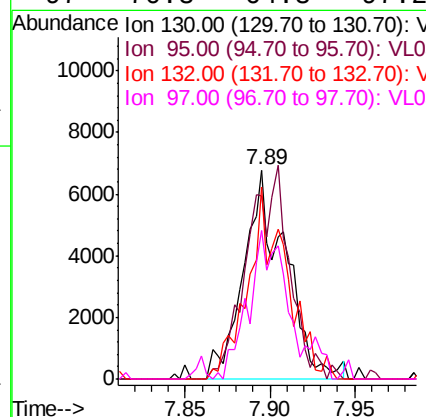
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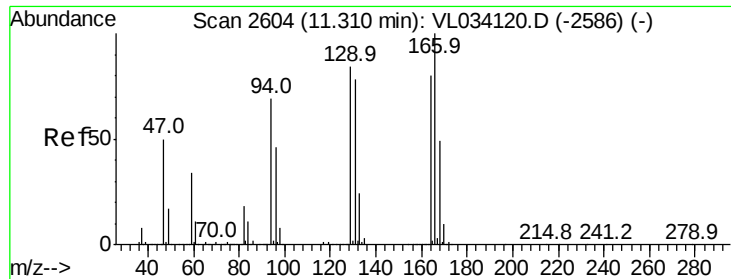
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#38
Trichloroethene
Concen: 0.128 ppbv m
RT: 7.89 min Scan# 1542
Delta R.T. -0.01 min
Lab File: VL034124.D
Acq: 5 Sep 2019 5:06

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	11624		
95	87.6	97.2	145.8#	
132	47.7	81.4	122.2#	
97	70.8	64.8	97.2	





#52

Tetrachloroethene

Concen: 0.106 ppbv m

RT: 11.31 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 9144

Ion Ratio Lower Upper

164 100

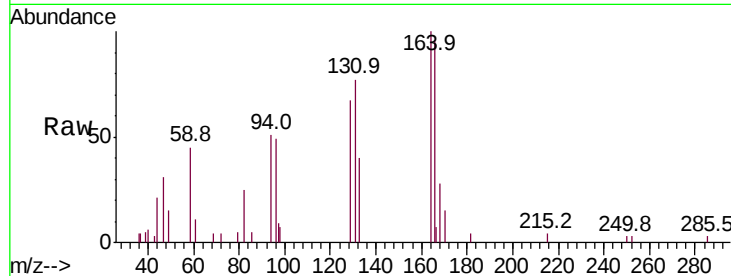
166 95.7 99.5 149.3#

129 66.9 83.6 125.4#

131 77.2 77.9 116.9#

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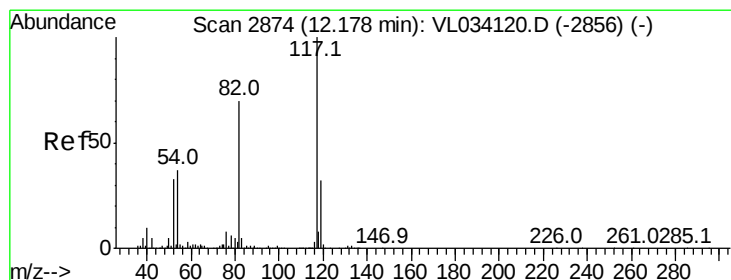
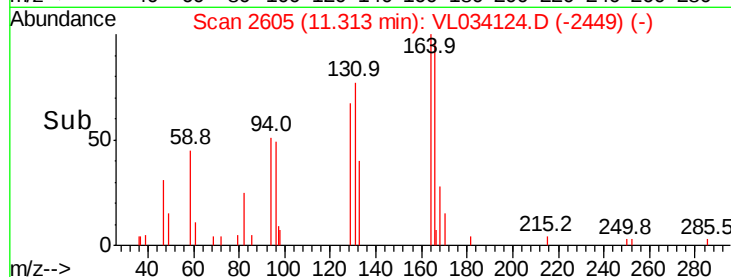
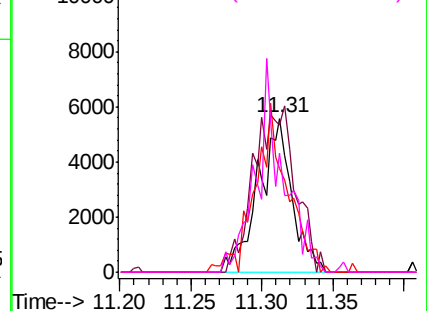


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.000 ppbv

RT: 12.17 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

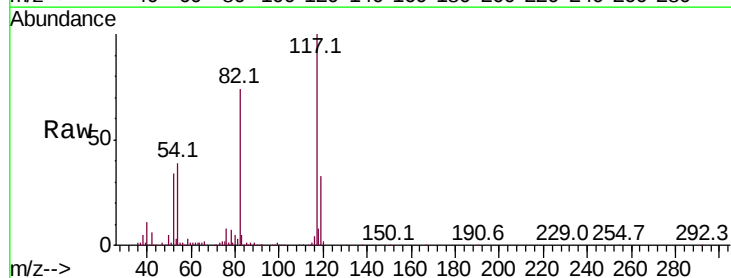
Tgt Ion:117 Resp: 2170923

Ion Ratio Lower Upper

117 100

82 75.1 55.8 83.6

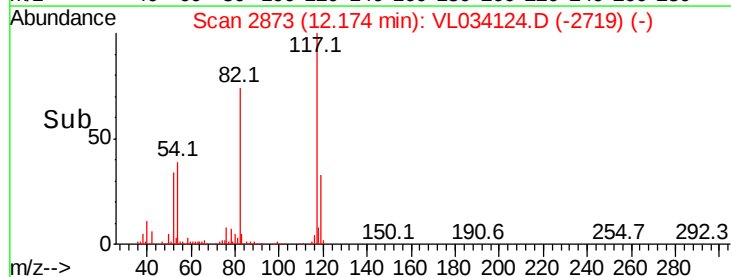
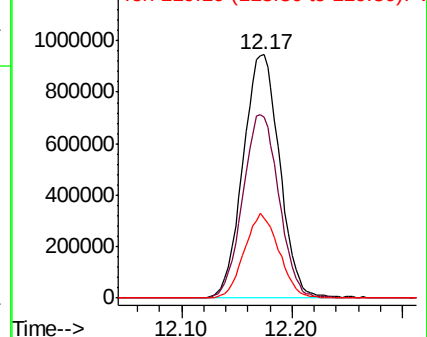
119 33.3 43.1 64.7#

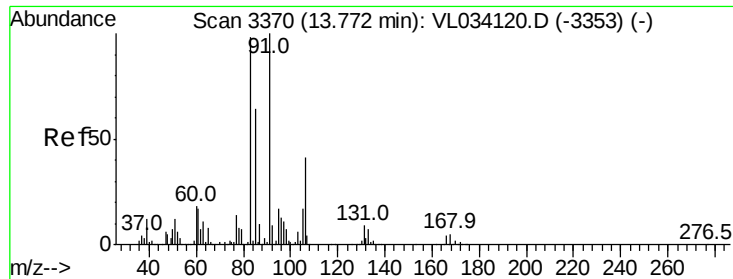


Abundance Ion 117.10 (116.80 to 117.80): V

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: 0.102 ppbv m

RT: 13.77 min Scan# 3369

Delta R.T. -0.00 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Instrument :

MSVOA_L

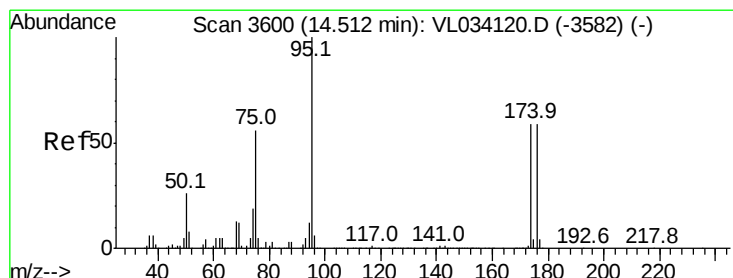
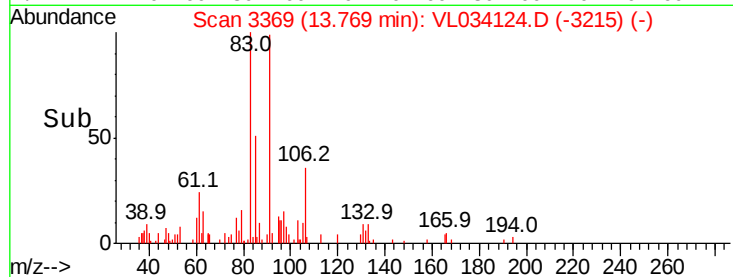
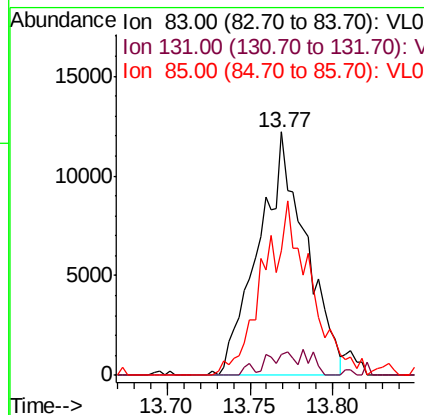
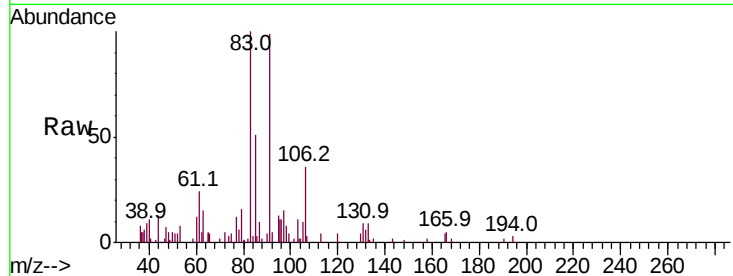
ClientSampleId :

VSTDIC0.1

Tot Ion:	83	Resp:	24136
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.3	12.8
85	74.0	32.5	97.5

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.331 ppbv

RT: 14.51 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VL034124.D

Acq: 5 Sep 2019 5:06

Tgt Ion:	95	Resp:	1833495
Ion Ratio	Lower	Upper	
95	100		
174	60.8	48.1	72.1
175	4.4	3.5	5.3

