

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034671.D
 Acq On : 25 Feb 2020 13:50
 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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 2/26/2020 12:38:52 PM

Quant Time: Feb 25 15:48:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1138072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2327500	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2306538	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1932894	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	7685	0.096	ppbv #	62
32) 1,1,1-Trichloroethane	6.51	97	15897	0.074	ppbv	92
35) Carbon Tetrachloride	7.02	117	16465	0.074	ppbv #	79
38) Trichloroethene	7.85	130	7216m	0.083	ppbv	
52) Tetrachloroethene	11.25	164	7588m	0.091	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	21332m	0.101	ppbv	

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

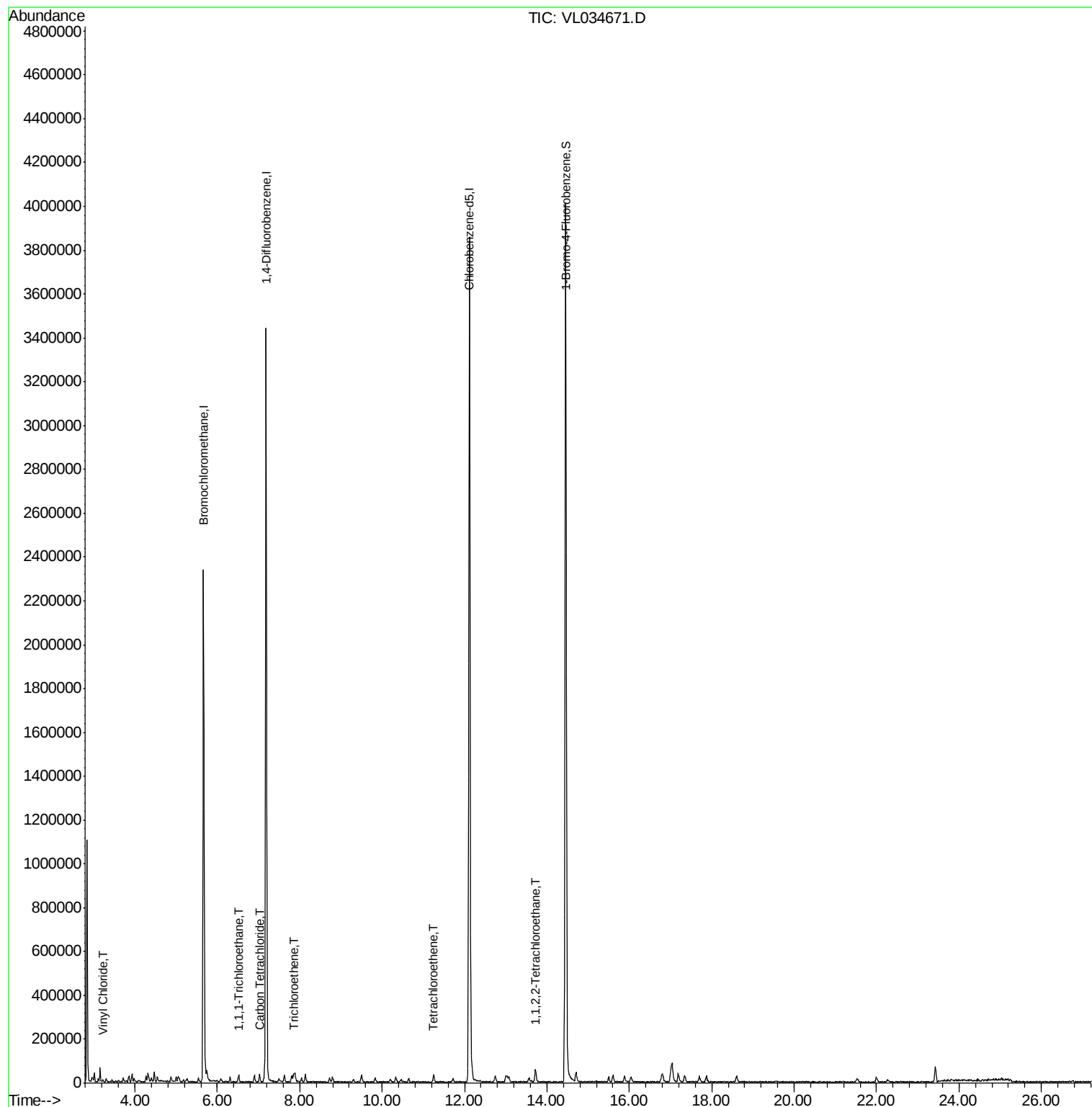
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022520\
Data File : VL034671.D
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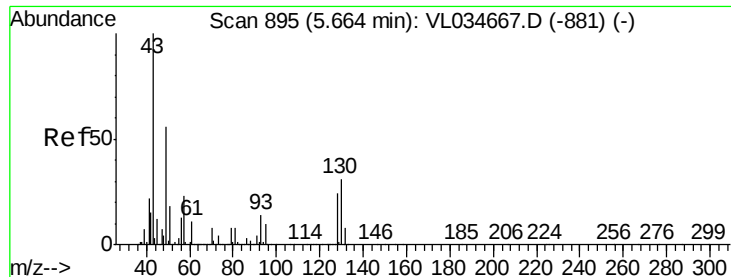
Instrument :
MSVOA_L
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
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QLast Update : Tue Feb 25 12:01:27 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1138072

Ion Ratio Lower Upper

49 100

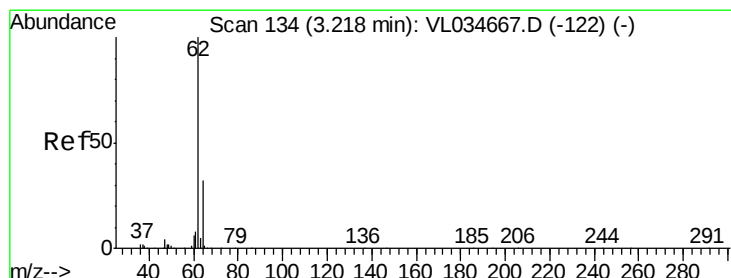
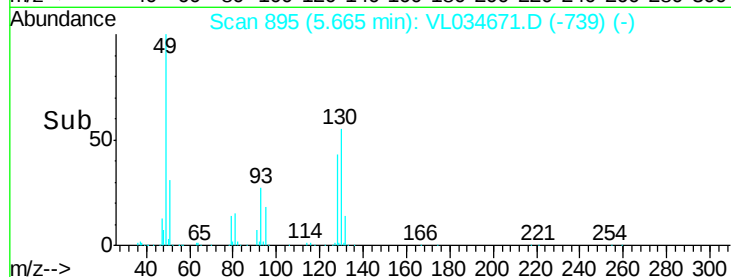
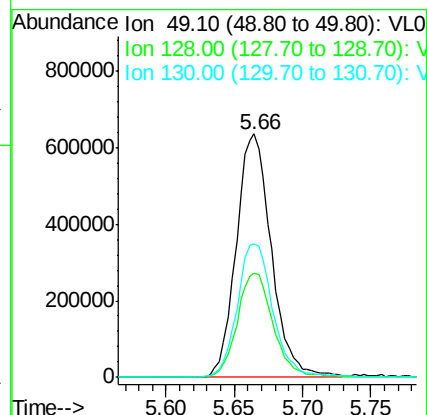
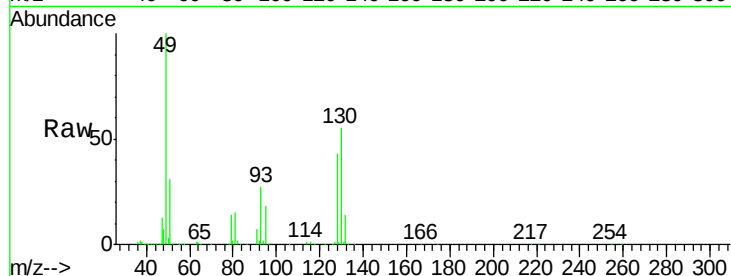
128 44.1 21.9 65.5

130 56.1 27.9 83.7

Manual Integrations
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#5

Vinyl Chloride

Concen: 0.096 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034671.D

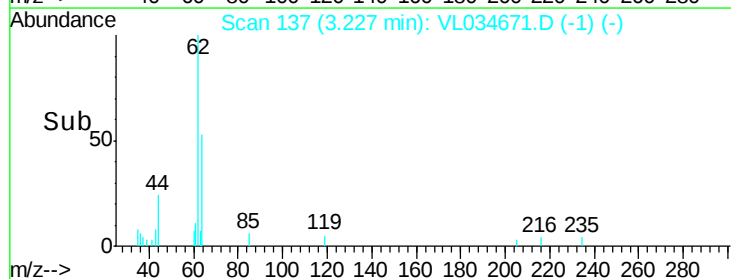
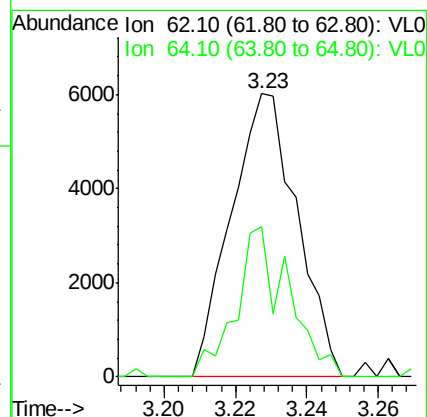
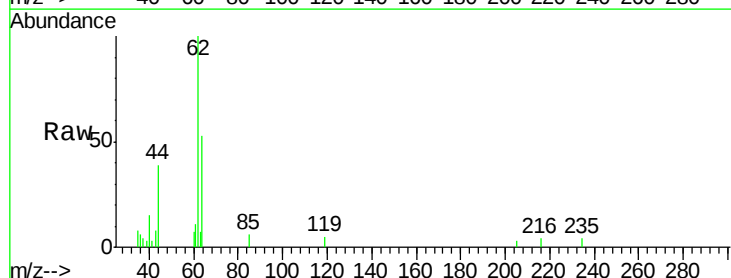
Acq: 25 Feb 2020 13:50

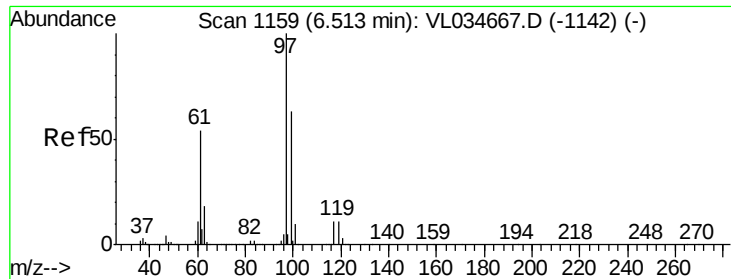
Tgt Ion: 62 Resp: 7685

Ion Ratio Lower Upper

62 100

64 53.0 25.7 38.5#





#32

1,1,1-Trichloroethane

Concen: 0.074 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

Instrument :

MSVOA_L

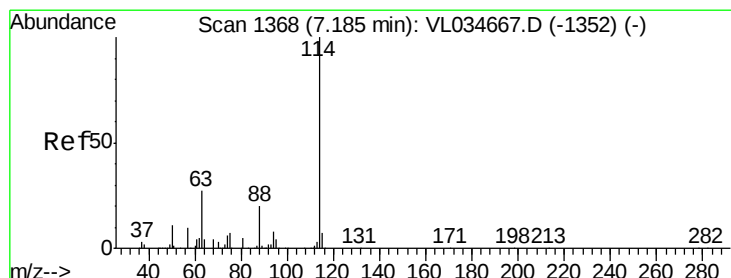
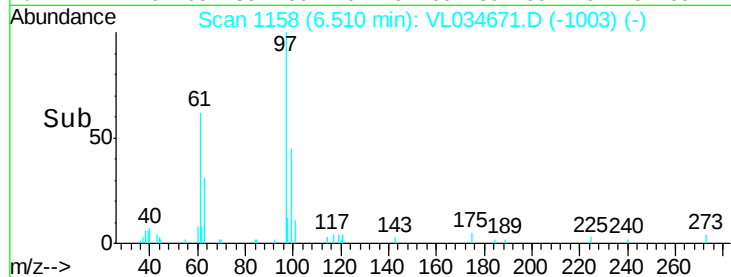
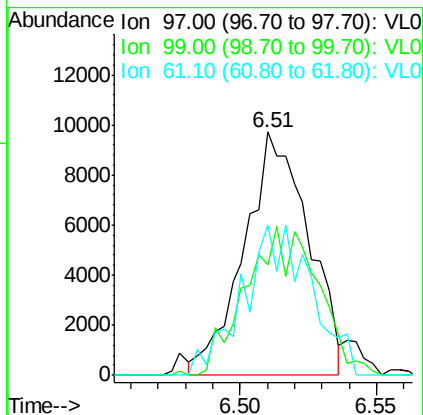
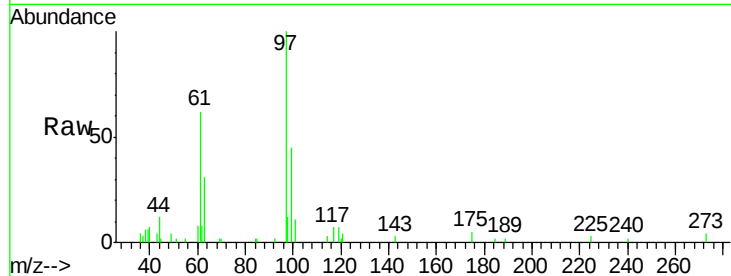
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	15897
Ion Ratio	Lower	Upper	
97	100		
99	68.5	52.2	78.2
61	65.1	44.5	66.7

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

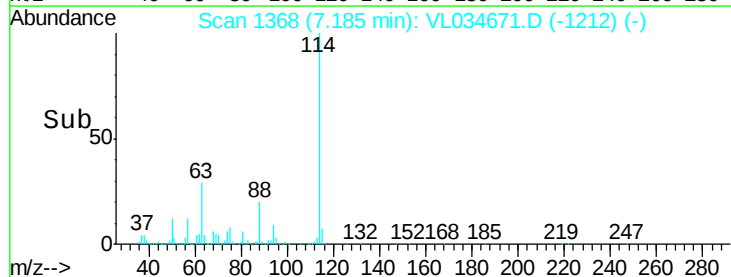
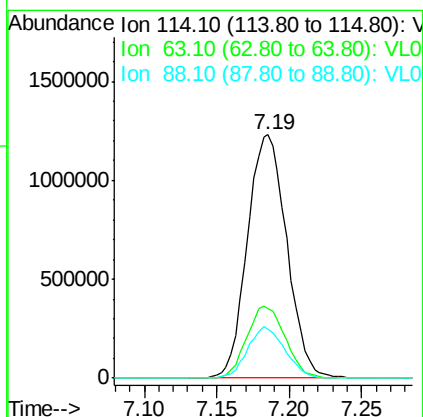
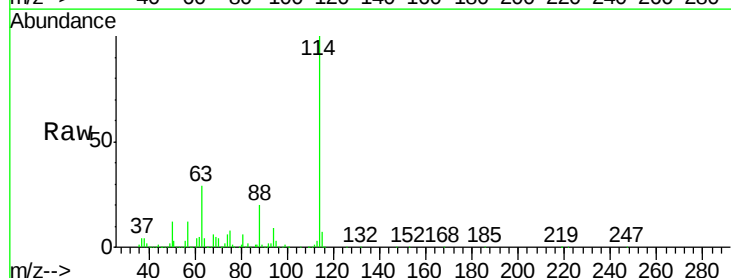
RT: 7.19 min Scan# 1368

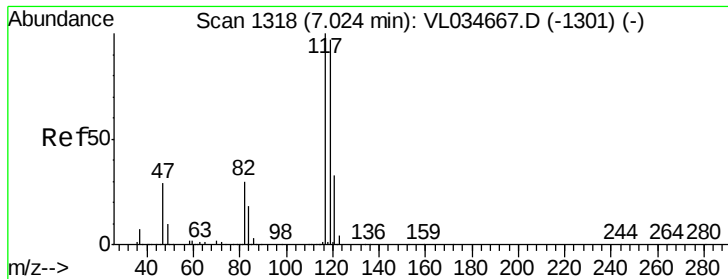
Delta R.T. 0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

Tgt Ion:	114	Resp:	2327500
Ion Ratio	Lower	Upper	
114	100		
63	29.0	23.1	34.7
88	19.9	15.6	23.4





#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

Instrument :

MSVOA_L

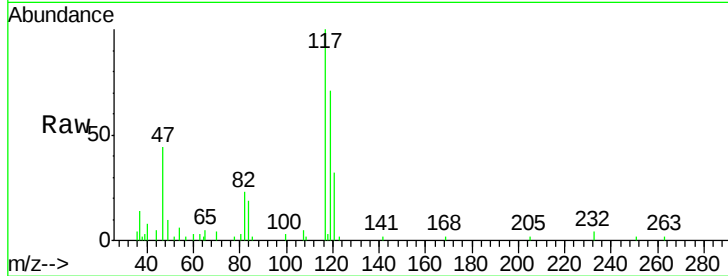
ClientSampleId :

VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	69.5	77.2	115.8#
121	31.7	26.1	39.1

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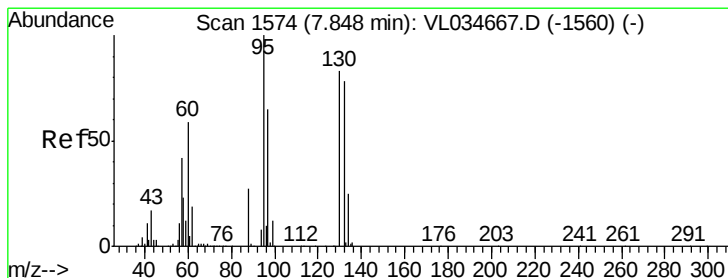
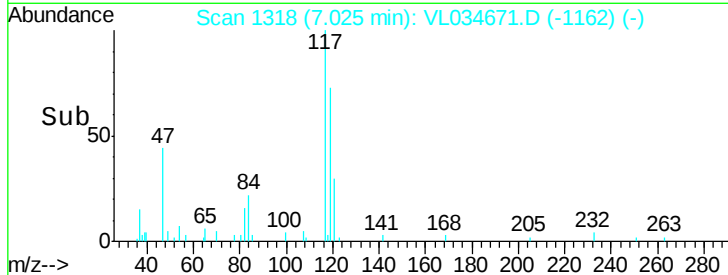
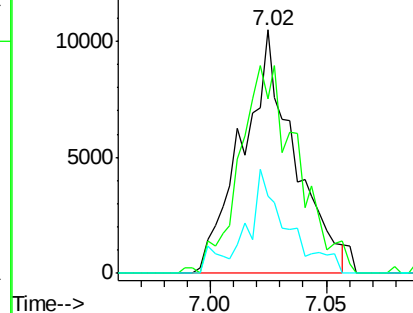
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.083 ppbv m

RT: 7.85 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

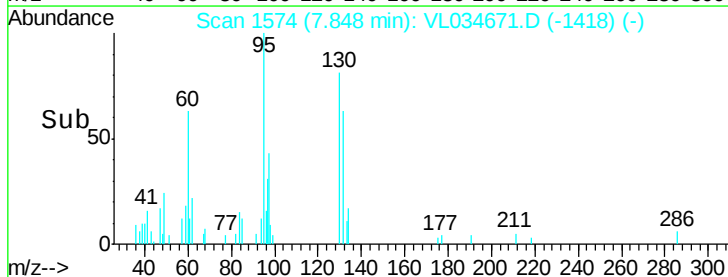
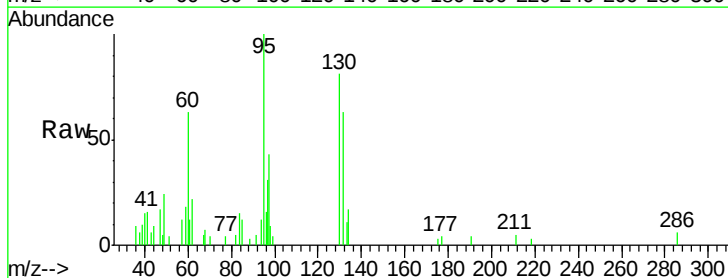
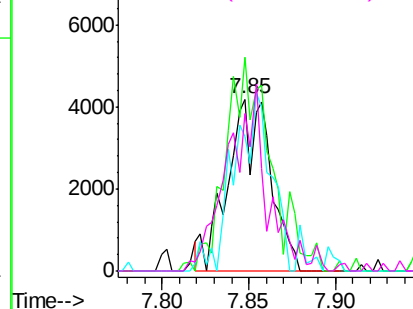
Tgt Ion	Ratio	Lower	Upper
130	100		
95	124.2	96.1	144.1
132	78.1	74.6	112.0
97	53.4	62.2	93.4#

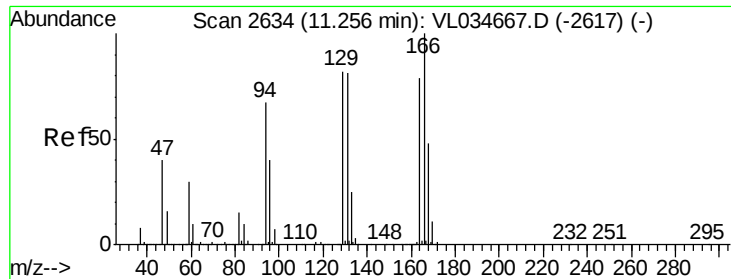
Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.091 ppbv m

RT: 11.25 min Scan# 2633

Delta R.T. -0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7588

Ion Ratio Lower Upper

164 100

166 82.6 101.4 152.2#

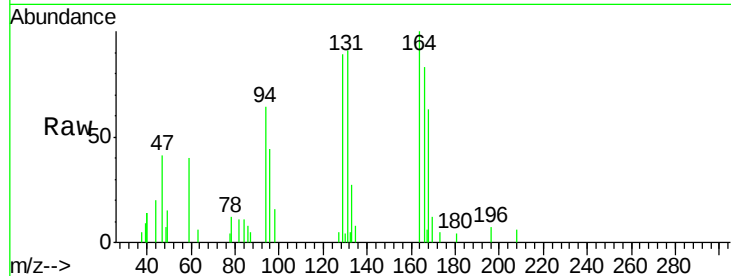
129 88.8 83.5 125.3

131 91.4 83.0 124.4

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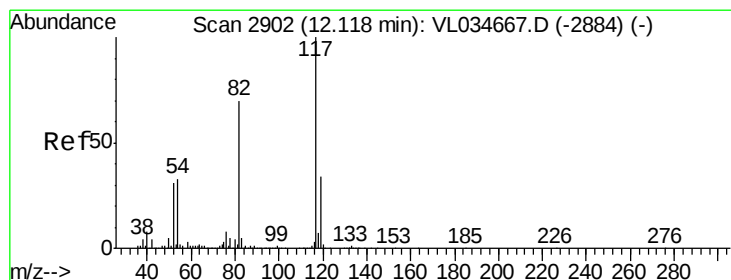
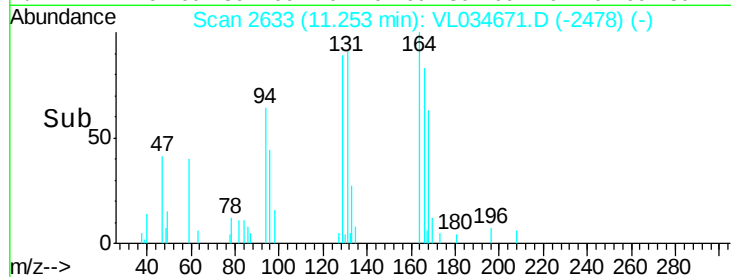
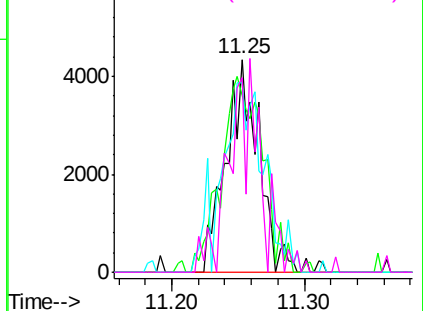


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.12 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL034671.D

Acq: 25 Feb 2020 13:50

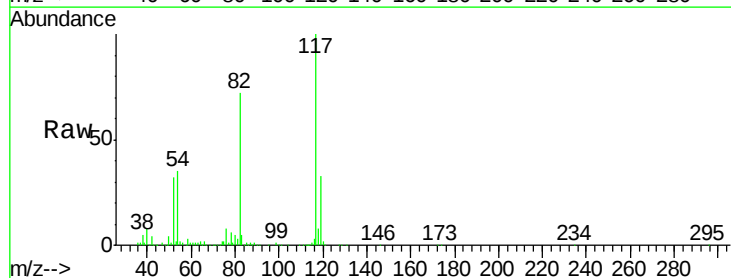
Tgt Ion:117 Resp: 2306538

Ion Ratio Lower Upper

117 100

82 70.1 54.2 81.4

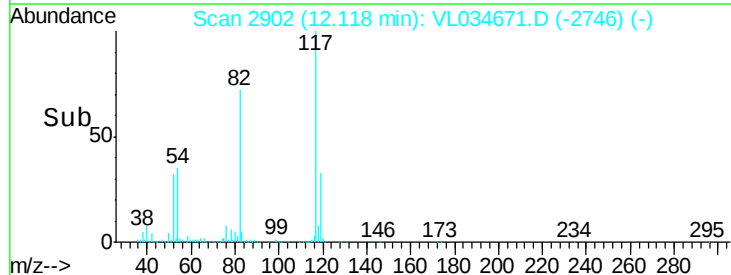
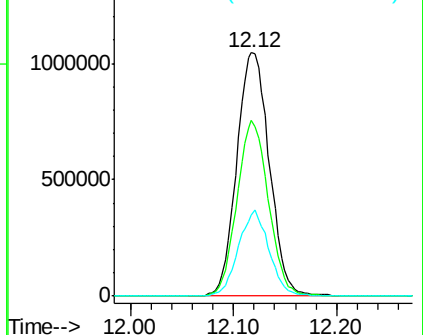
119 33.3 44.2 66.2#

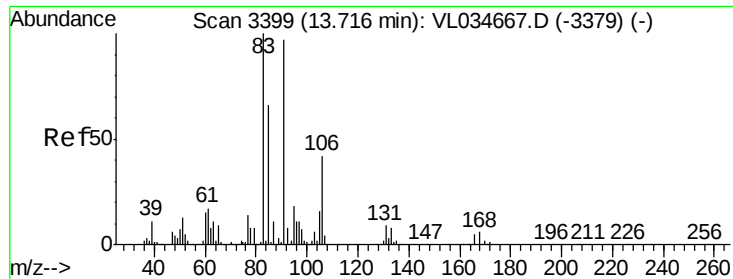


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





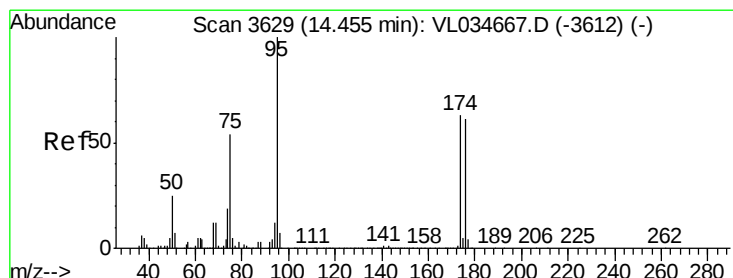
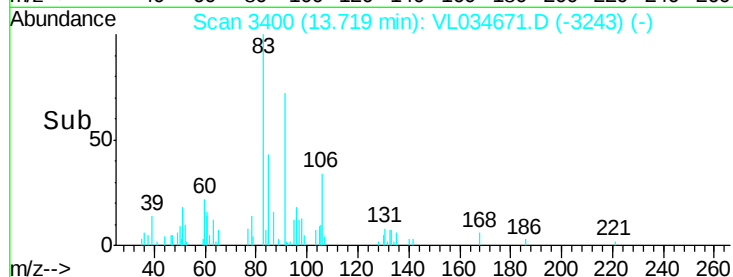
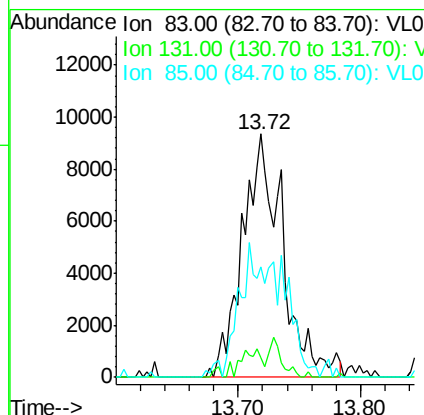
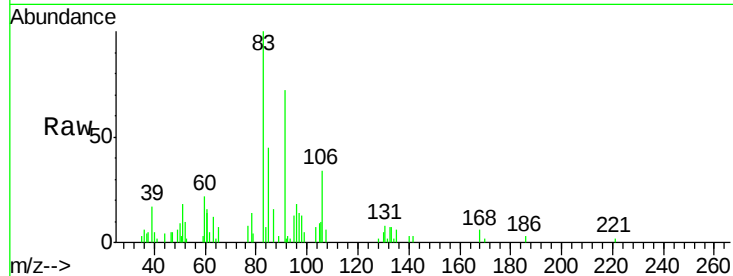
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.101 ppbv m
 RT: 13.72 min Scan# 3400
 Delta R.T. 0.00 min
 Lab File: VL034671.D
 Acq: 25 Feb 2020 13:50

Instrument :
 MSVOA_L
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 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.5	13.4#
85	60.7	32.6	98.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.916 ppbv
 RT: 14.46 min Scan# 3630
 Delta R.T. 0.00 min
 Lab File: VL034671.D
 Acq: 25 Feb 2020 13:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.1	51.2	76.8
175	4.8	3.8	5.6

