

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034572.D
 Acq On : 30 Jan 2020 14:38
 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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 1/31/2020 4:24:08 PM

Quant Time: Jan 30 15:26:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1131526	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2298917	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2249234	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1948897	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	8379	0.107	ppbv	# 73
32) 1,1,1-Trichloroethane	6.51	97	20929m	0.107	ppbv	
35) Carbon Tetrachloride	7.01	117	21639m	0.104	ppbv	
38) Trichloroethene	7.84	130	7709m	0.095	ppbv	
52) Tetrachloroethene	11.25	164	7677m	0.098	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	19218m	0.090	ppbv	

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

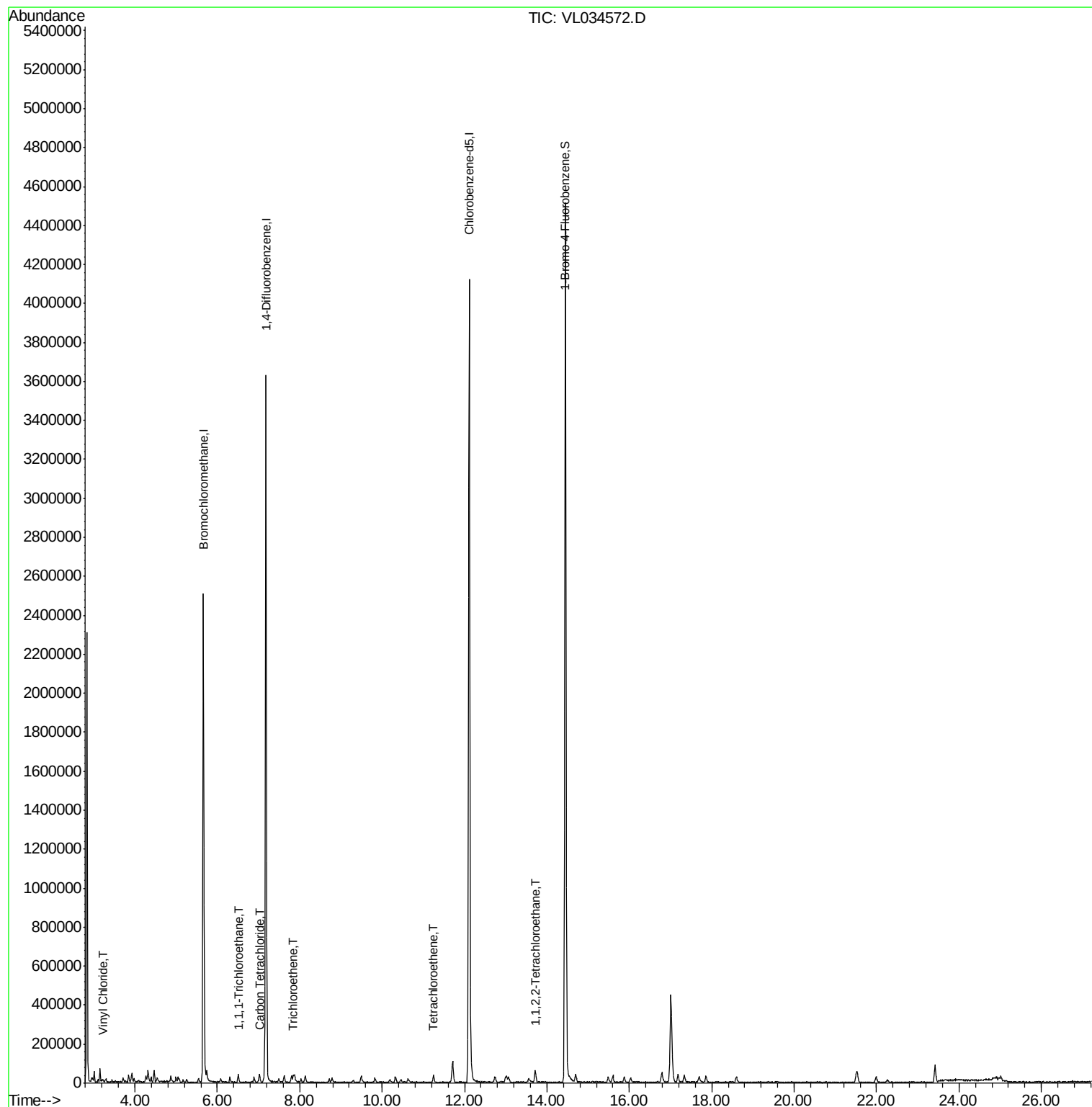
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL013020\
Data File : VL034572.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
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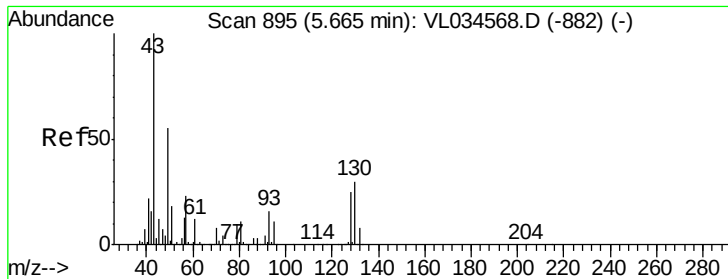
Instrument :
MSVOA_L
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Quant Time: Jan 30 15:26:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 14:46:59 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1131526

Ion Ratio Lower Upper

49 100

128 45.8 22.4 67.2

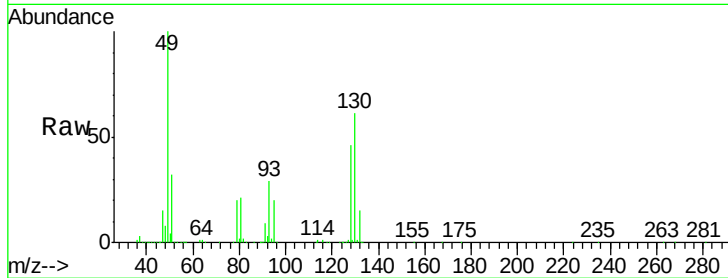
130 58.5 28.3 85.0

Manual Integrations

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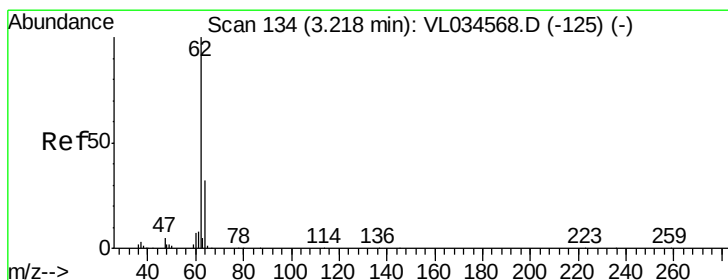
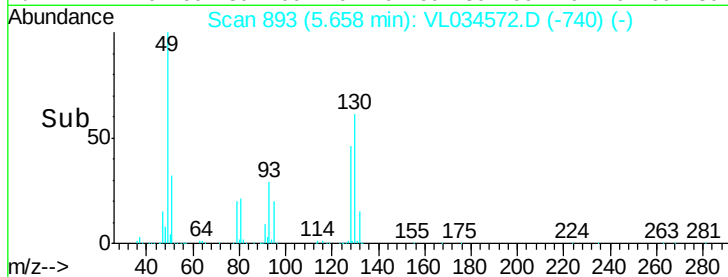
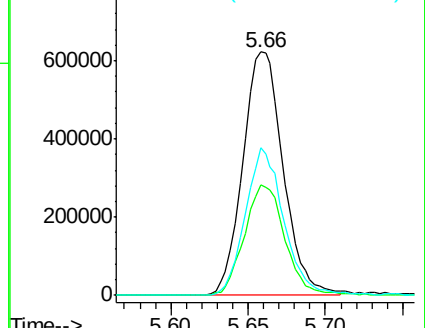
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.107 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034572.D

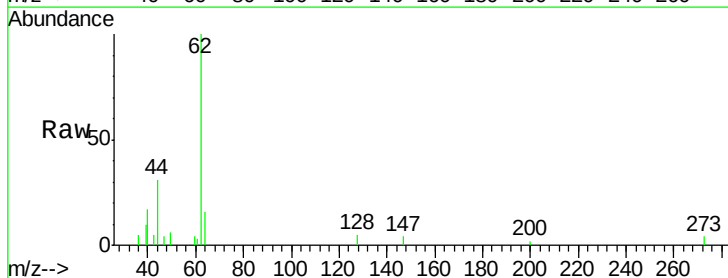
Acq: 30 Jan 2020 14:38

Tgt Ion: 62 Resp: 8379

Ion Ratio Lower Upper

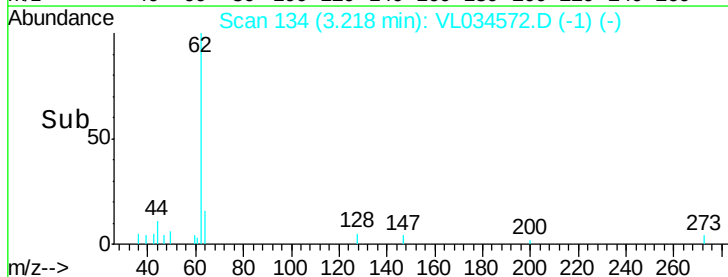
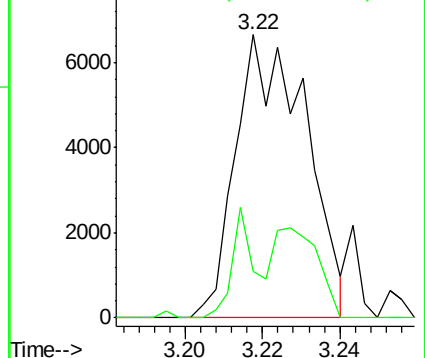
62 100

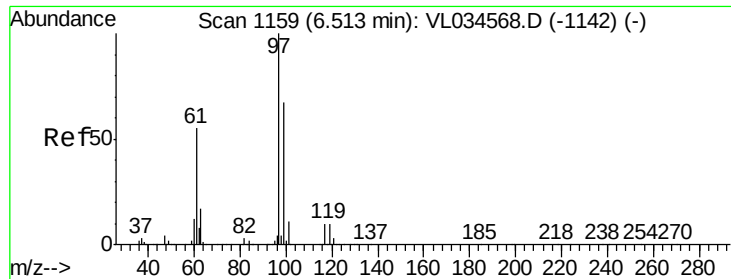
64 16.3 24.9 37.3#



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: 0.107 ppbv m

RT: 6.51 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 97 Resp: 20929

Ion Ratio Lower Upper

97 100

99 65.7 51.7 77.5

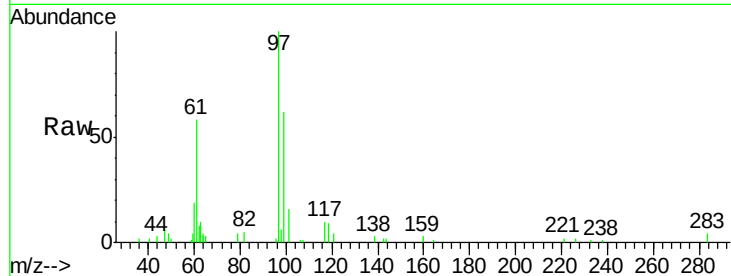
61 57.5 42.9 64.3

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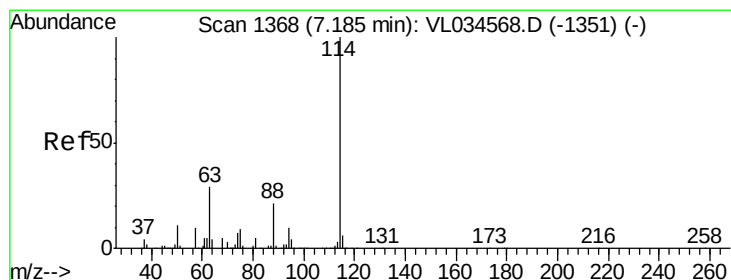
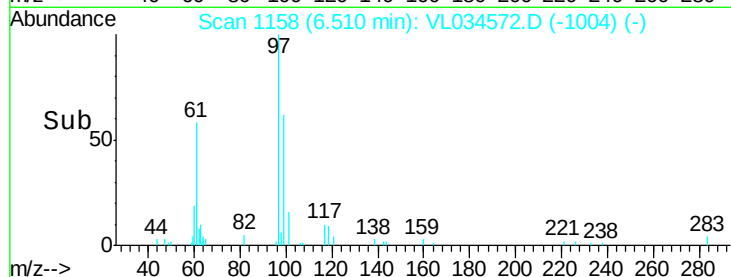
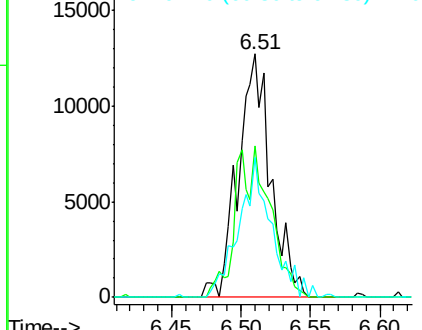
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Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.18 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

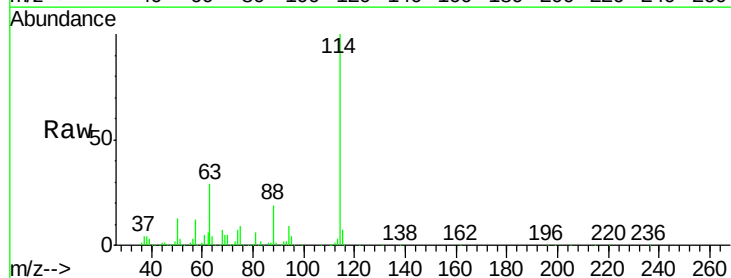
Tgt Ion: 114 Resp: 2298917

Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

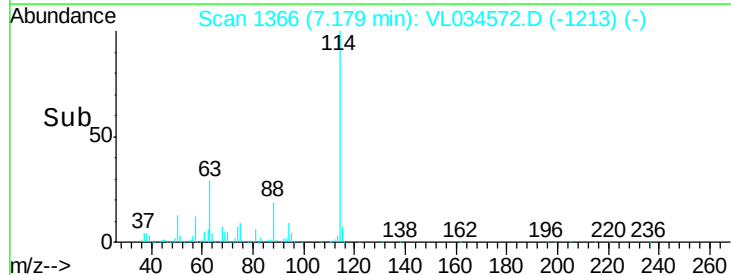
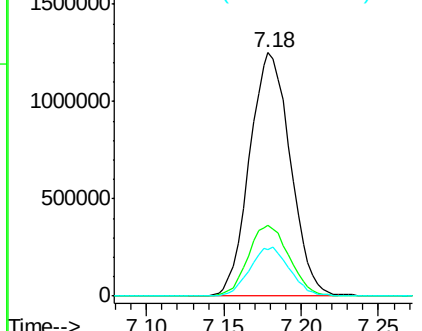
88 19.7 15.7 23.5

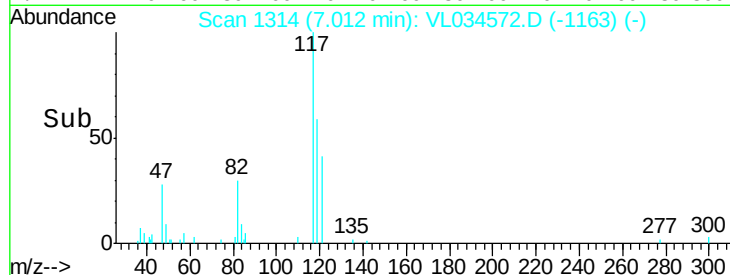
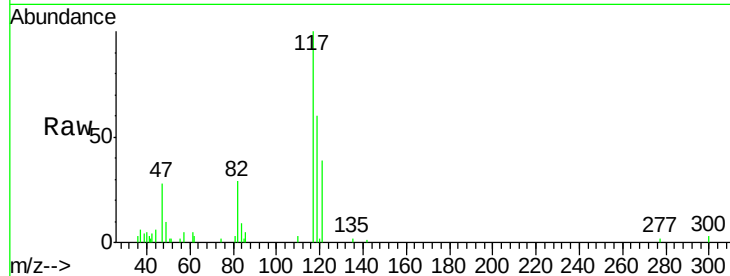
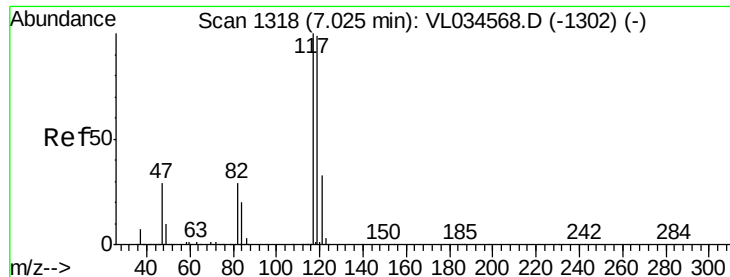


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.104 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Tot Ion:	117	Resp:	21639
Ion Ratio	Lower	Upper	
117	100		
119	60.0	78.7	118.1#
121	38.7	25.9	38.9

Instrument :

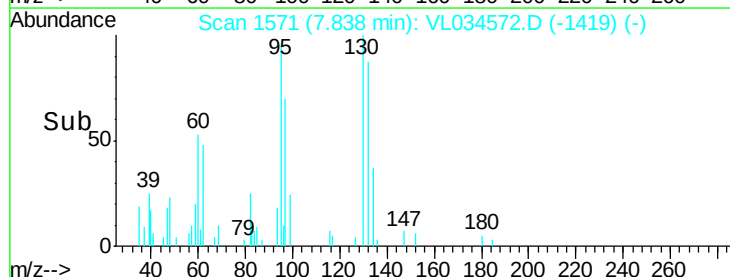
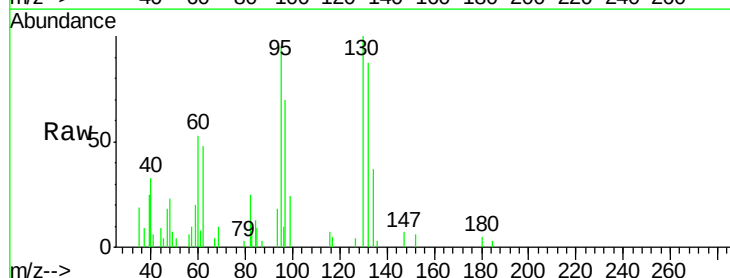
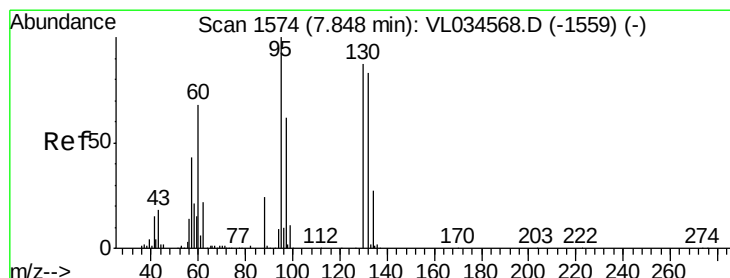
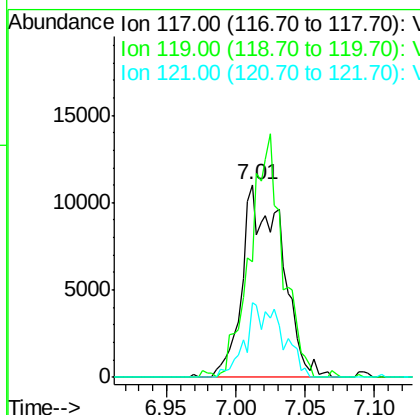
MSVOA_L

ClientSampleId :

VSTDIC0.1

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#38

Trichloroethene

Concen: 0.095 ppbv m

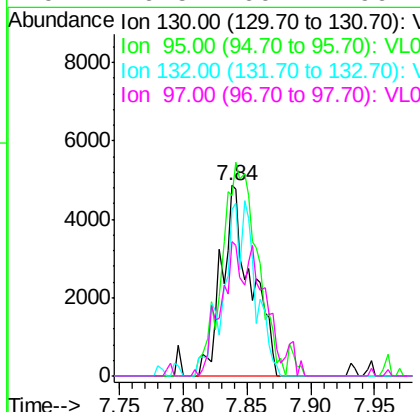
RT: 7.84 min Scan# 1571

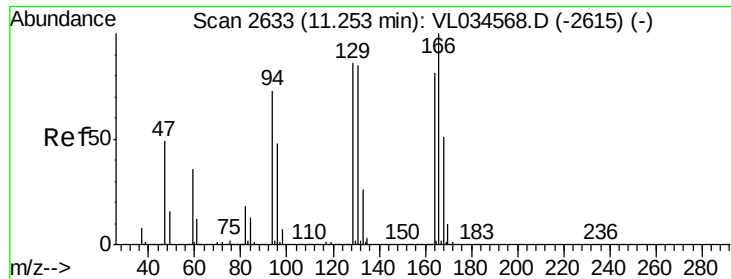
Delta R.T. -0.01 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Tgt Ion:	130	Resp:	7709
Ion Ratio	Lower	Upper	
130	100		
95	95.0	94.2	141.2
132	87.3	76.1	114.1
97	70.5	60.2	90.2





#52

Tetrachloroethene

Concen: 0.098 ppbv m

RT: 11.25 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7677

Ion Ratio Lower Upper

164 100

166 87.6 95.7 143.5#

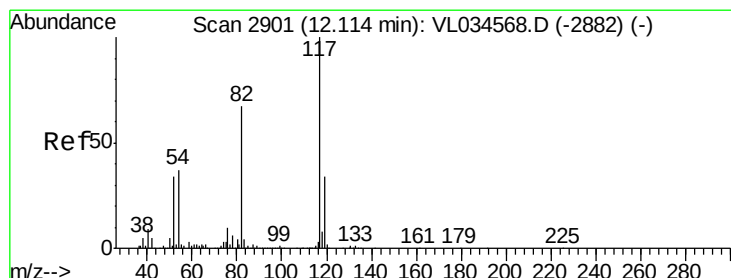
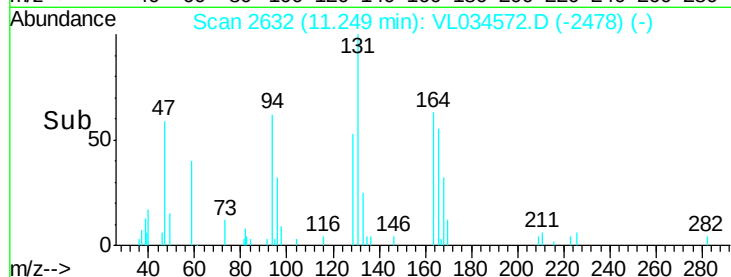
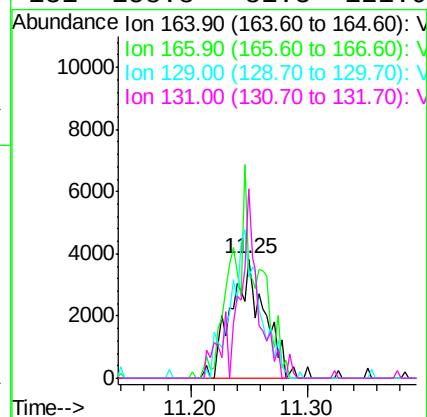
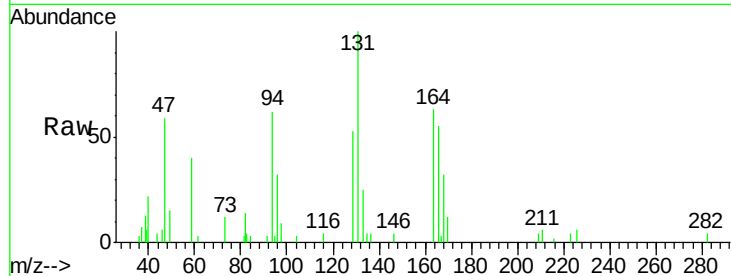
129 84.3 82.2 123.2

131 158.8 81.3 121.9#

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

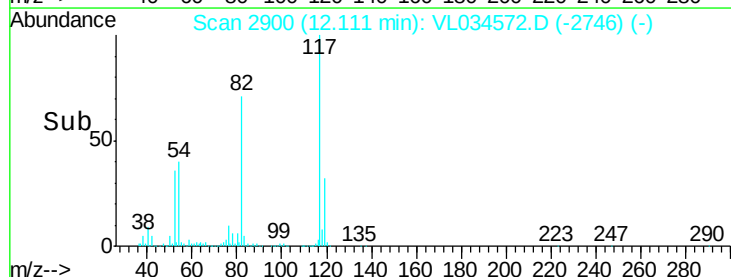
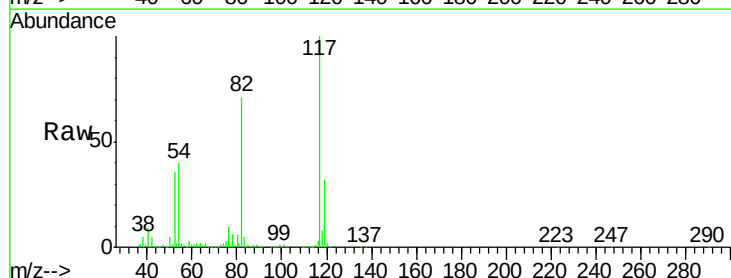
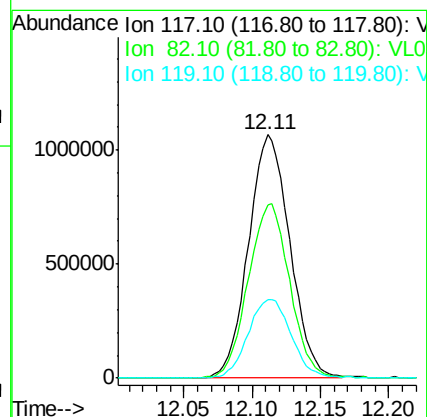
Tgt Ion:117 Resp: 2249234

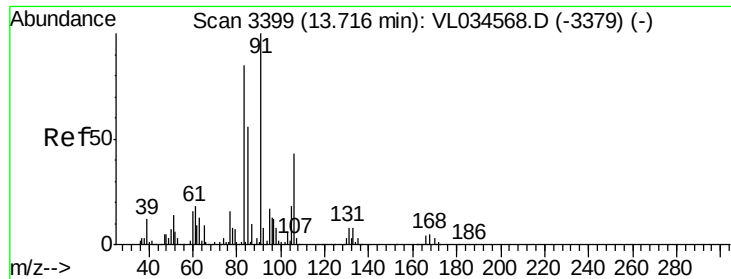
Ion Ratio Lower Upper

117 100

82 72.1 56.2 84.4

119 33.8 27.1 40.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.090 ppbv m

RT: 13.71 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 19218

Ion Ratio Lower Upper

83 100

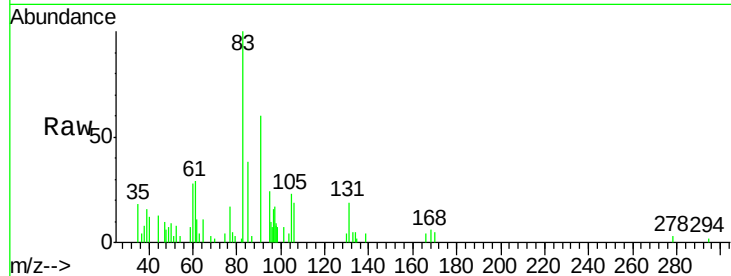
131 14.9 4.8 14.4#

85 69.8 32.5 97.4

Manual Integrations
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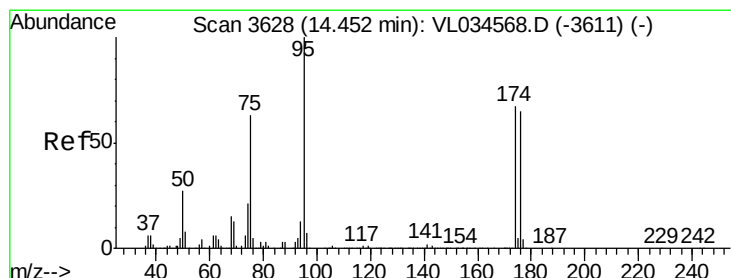
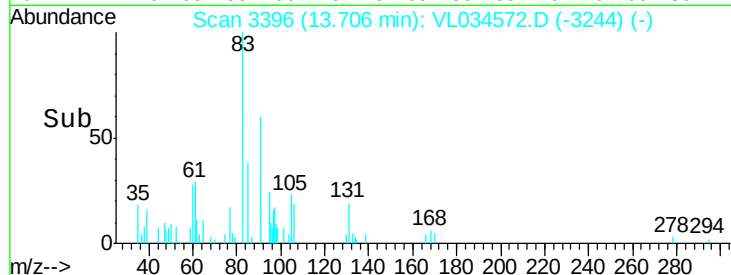
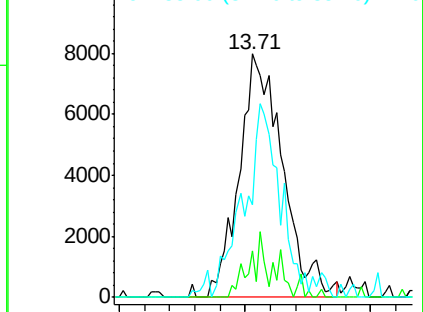
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.384 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL034572.D

Acq: 30 Jan 2020 14:38

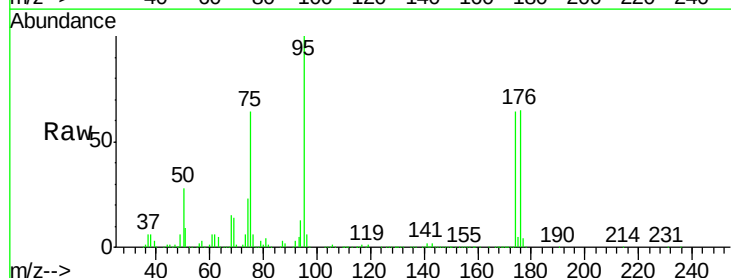
Tgt Ion: 95 Resp: 1948897

Ion Ratio Lower Upper

95 100

174 64.9 52.4 78.6

175 4.5 3.9 5.9



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

