

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036050.D
 Acq On : 3 Dec 2020 12:19
 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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Quant Time: Dec 03 13:12:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 13:12:17 2020
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1113260	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3826868	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3491876	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2642257	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	9245m	0.112	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	21938	0.083	ppbv	93
35) Carbon Tetrachloride	7.00	117	20645	0.101	ppbv	87
38) Trichloroethene	7.82	130	10323	0.074	ppbv	88
52) Tetrachloroethene	11.21	164	9897	0.073	ppbv #	85
63) 1,1,2,2-Tetrachloroethane	13.67	83	29754m	0.110	ppbv	

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

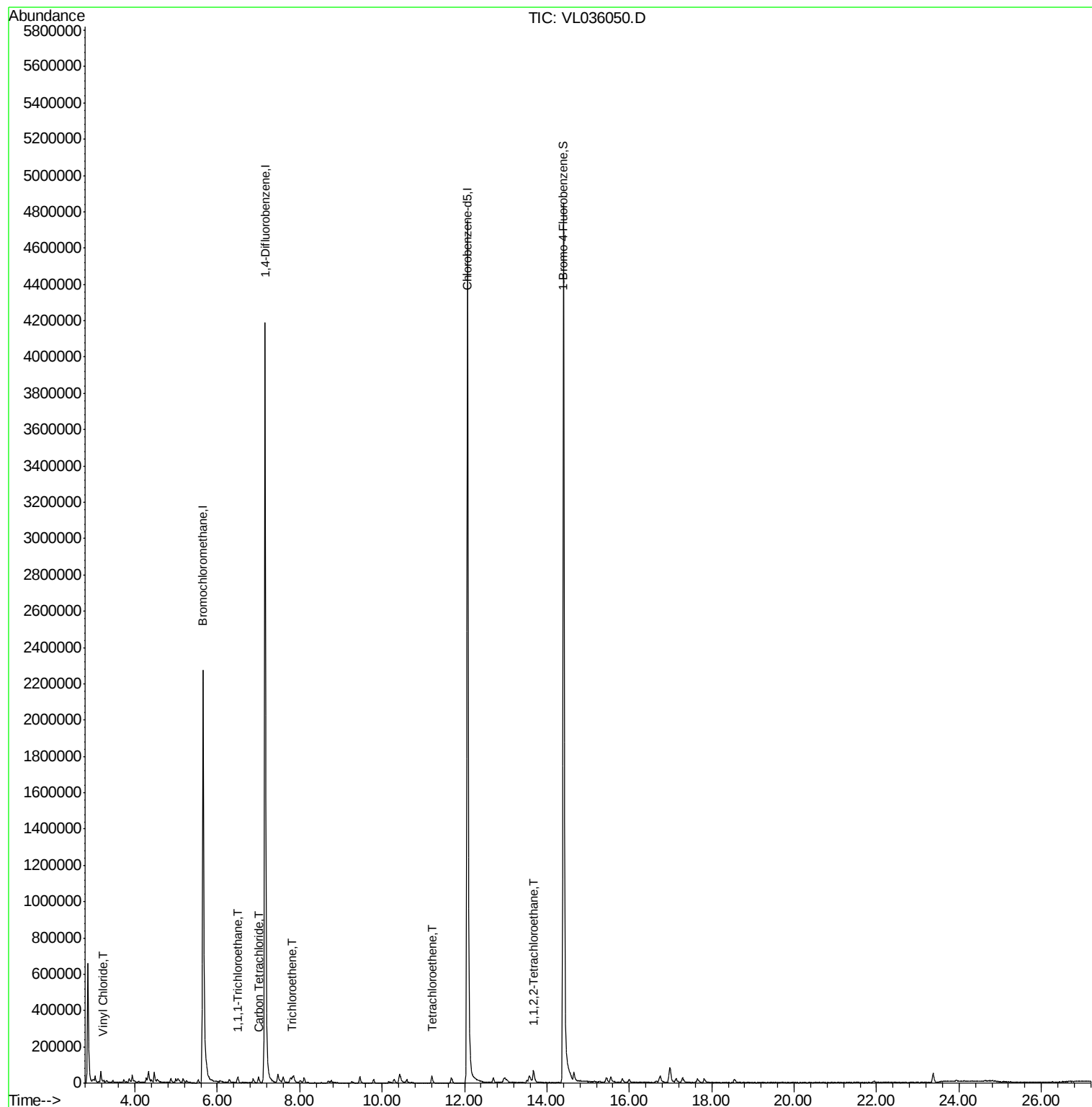
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120320\
Data File : VL036050.D
Acq On : 3 Dec 2020 12:19
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Misc : 400ml/MSVOA L
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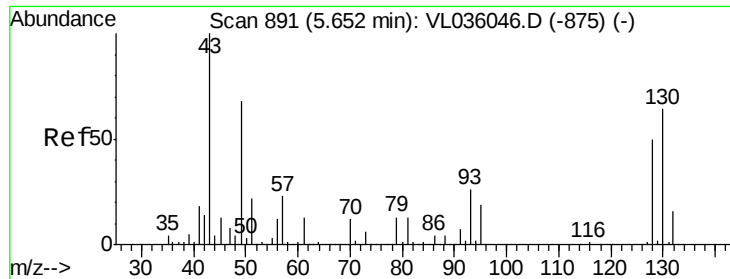
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
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Quant Time: Dec 03 13:12:17 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 03 12:00:21 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1113260

Ion Ratio Lower Upper

49 100

128 74.4 38.3 114.8

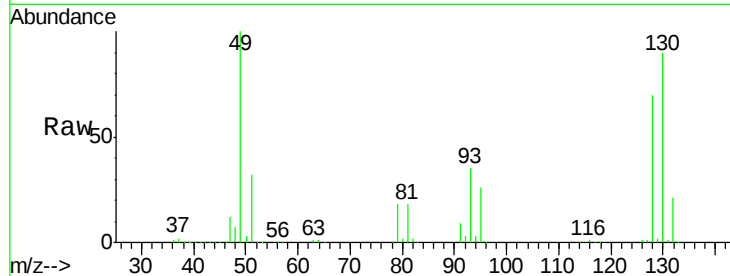
130 95.7 49.1 147.4

Manual Integrations

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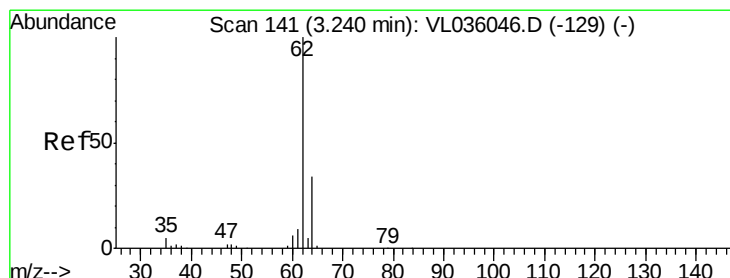
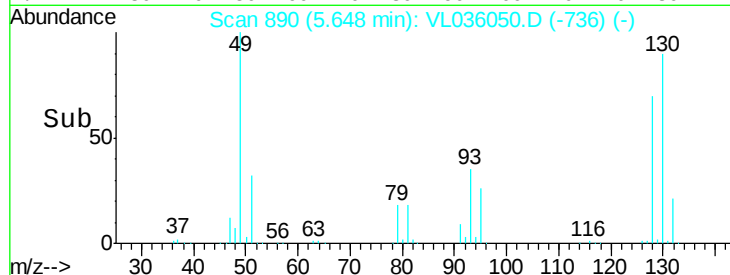
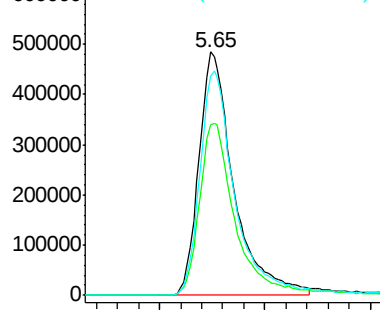
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.112 ppbv m

RT: 3.24 min Scan# 140

Delta R.T. -0.00 min

Lab File: VL036050.D

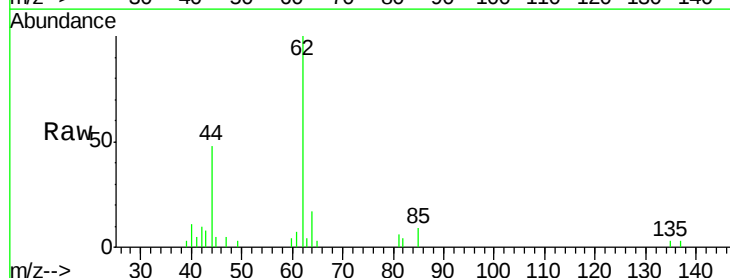
Acq: 3 Dec 2020 12:19

Tgt Ion: 62 Resp: 9245

Ion Ratio Lower Upper

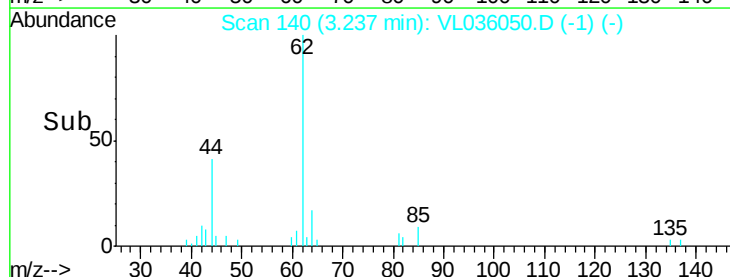
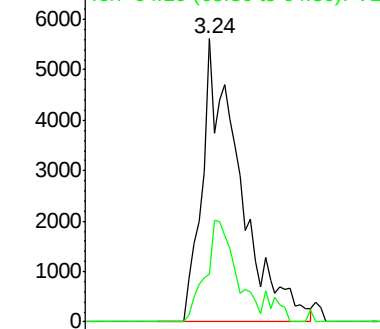
62 100

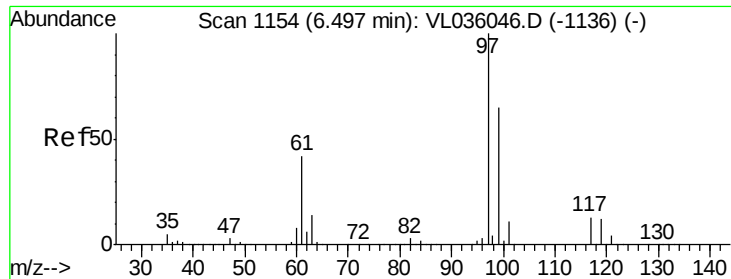
64 17.1 26.8 40.2#



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: 0.083 ppbv

RT: 6.50 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 97 Resp: 21938

Ion Ratio Lower Upper

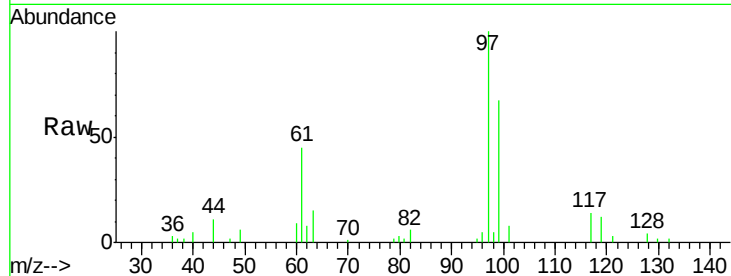
97 100

99 69.0 52.4 78.6

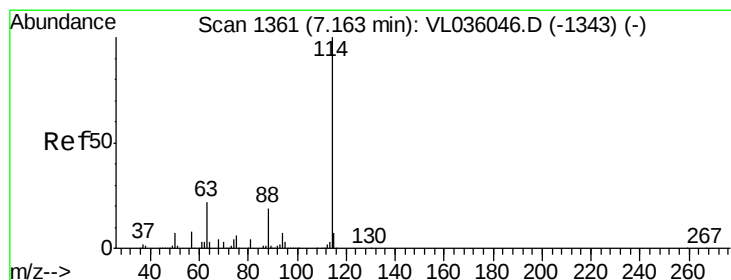
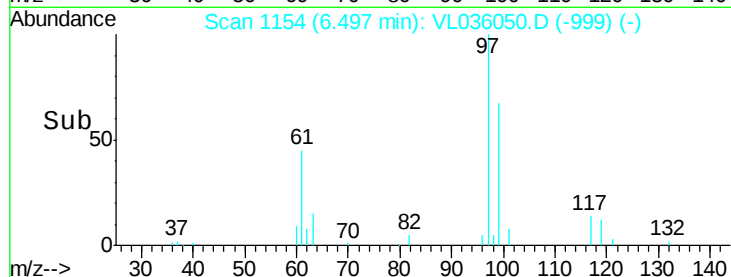
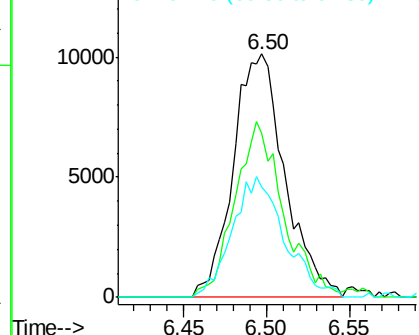
61 50.1 34.7 52.1

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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: 7.16 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

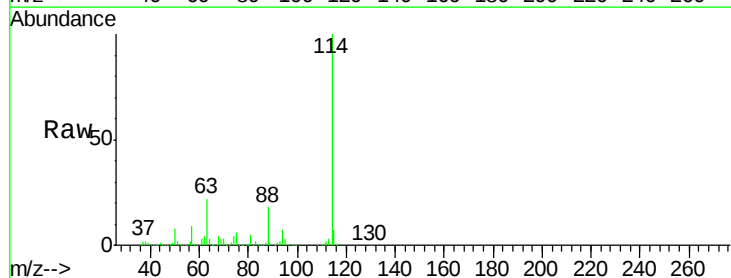
Tgt Ion: 114 Resp: 3826868

Ion Ratio Lower Upper

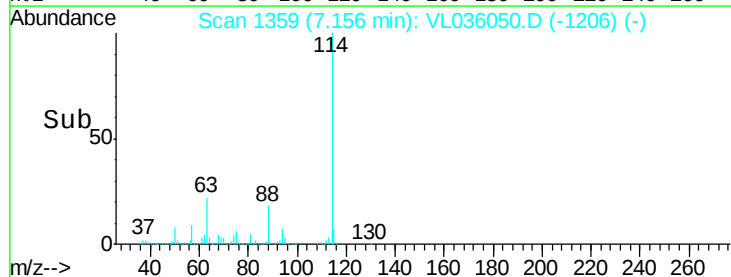
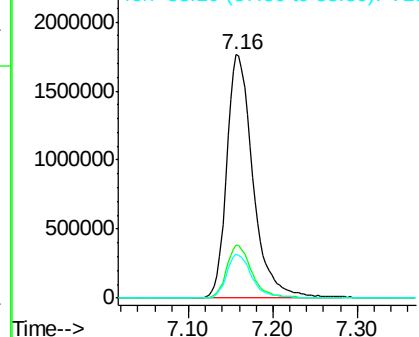
114 100

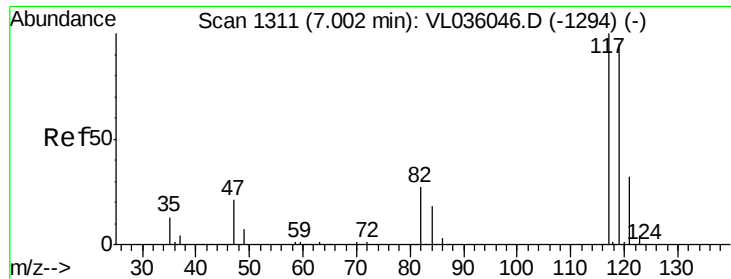
63 21.2 17.2 25.8

88 17.5 14.0 21.0



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: 0.101 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

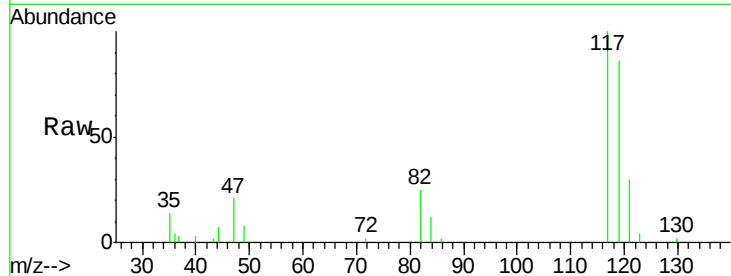
VSTDIC0.1

Tot Ion:117 Resp: 20645

Ion	Ratio	Lower	Upper
117	100		
119	80.0	75.9	113.9
121	30.0	25.8	38.8

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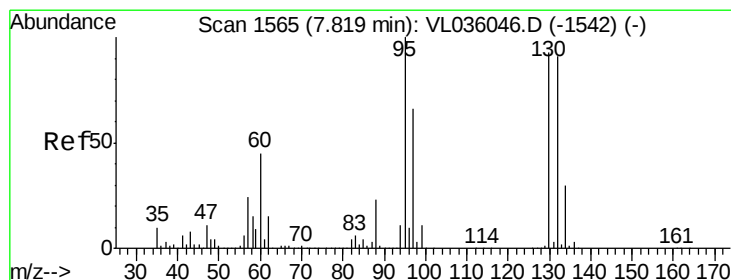
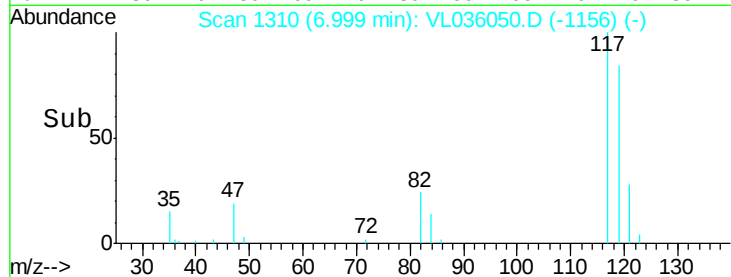
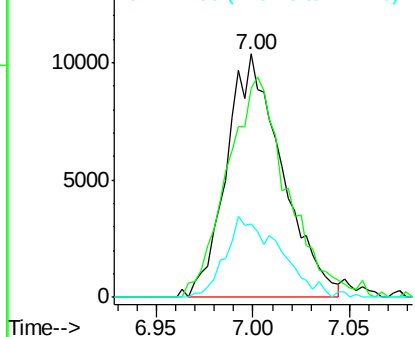
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.074 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Tgt Ion:130 Resp: 10323

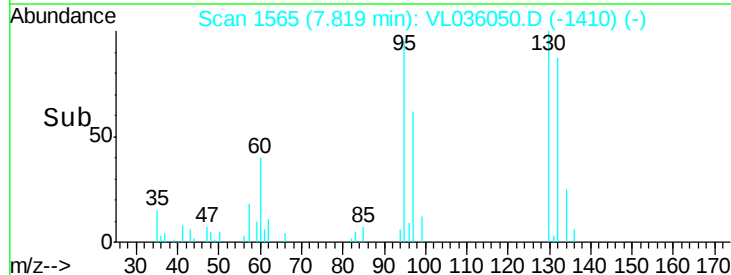
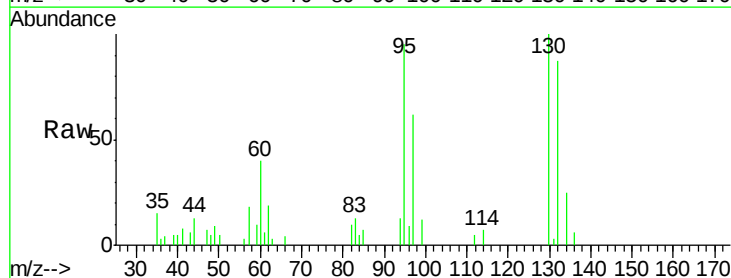
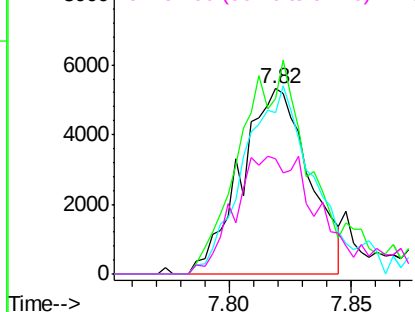
Ion	Ratio	Lower	Upper
130	100		
95	94.5	86.1	129.1
132	86.9	78.6	118.0
97	62.2	56.5	84.7

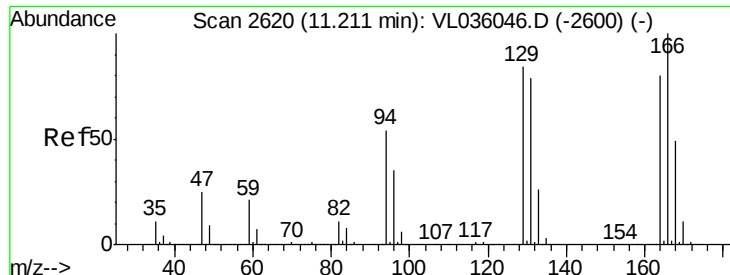
Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.073 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCO.1

Tot Ion:164 Resp: 9897

Ion Ratio Lower Upper

164 100

166 106.6 100.2 150.2

129 80.6 83.7 125.5#

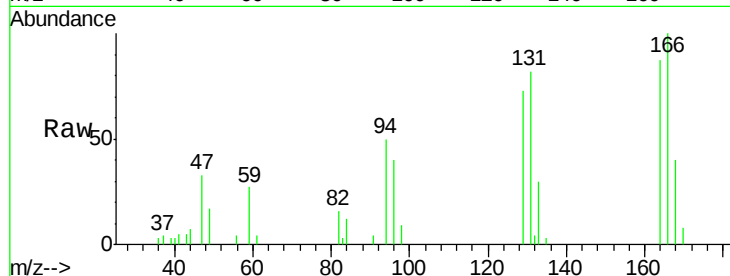
131 94.0 78.7 118.1

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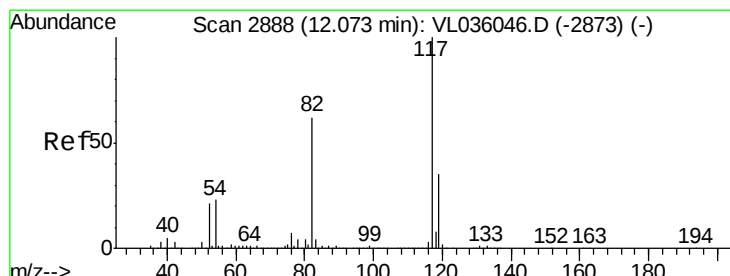
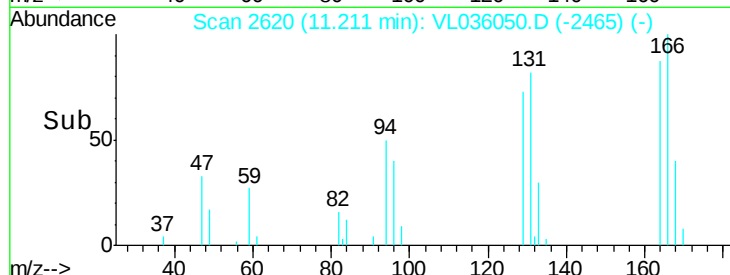
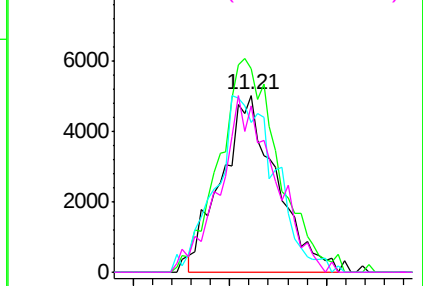


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL036050.D

Acq: 3 Dec 2020 12:19

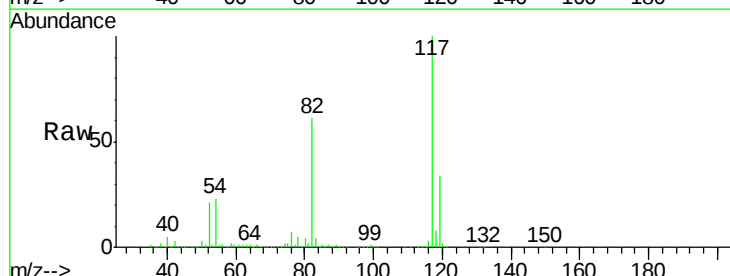
Tgt Ion:117 Resp: 3491876

Ion Ratio Lower Upper

117 100

82 62.3 49.9 74.9

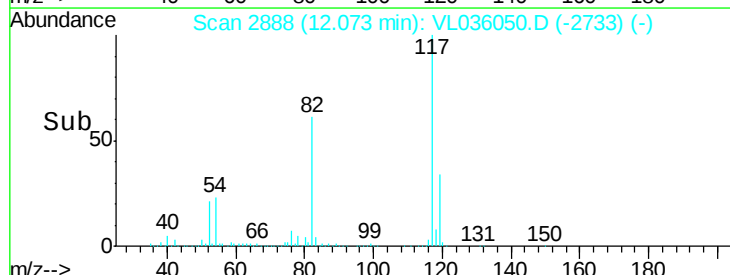
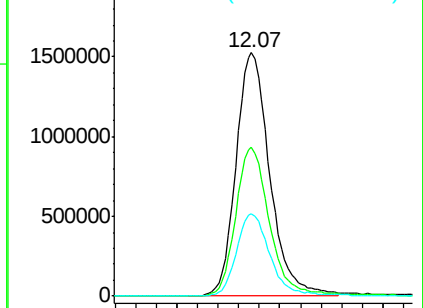
119 34.1 28.7 43.1

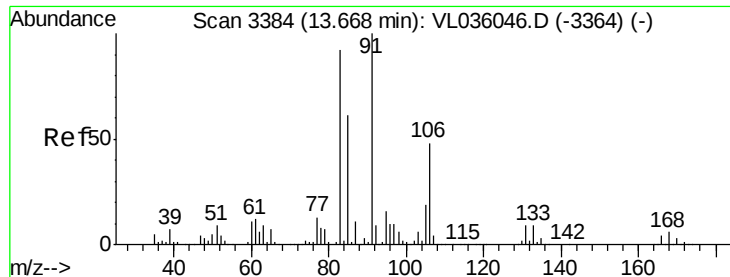


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





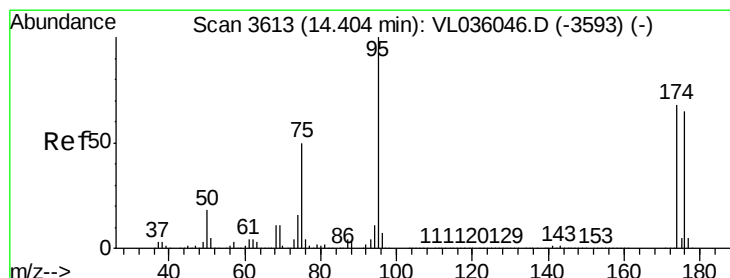
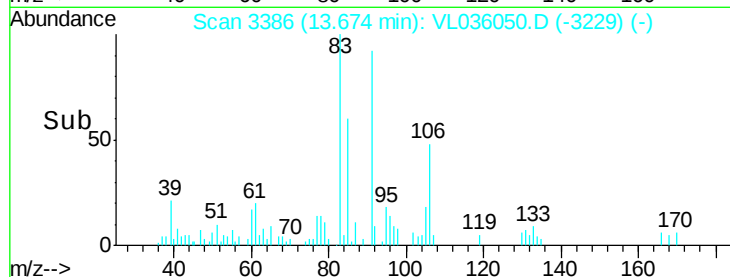
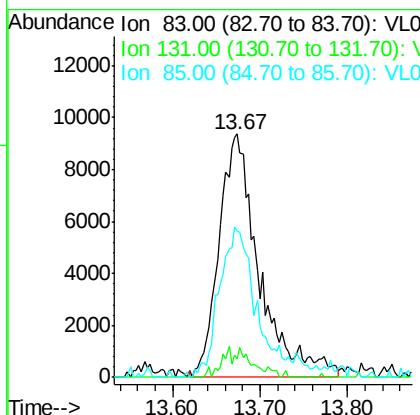
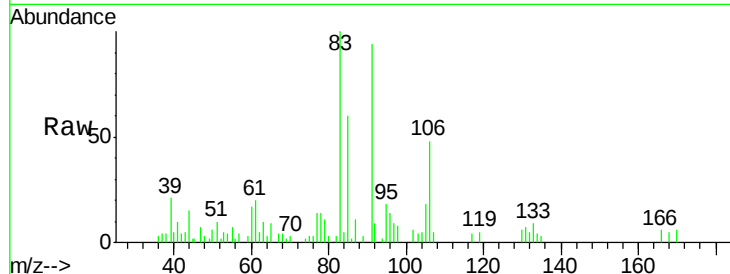
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.110 ppbv m
 RT: 13.67 min Scan# 3386
 Delta R.T. 0.01 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.8	14.4
85	62.8	33.3	99.9

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.650 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.00 min
 Lab File: VL036050.D
 Acq: 3 Dec 2020 12:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.5	54.2	81.2
175	4.8	3.8	5.8

