

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038961.D
 Acq On : 5 May 2022 5:16
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022

Quant Time: May 05 07:31:20 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 04:53:24 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1345675	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3188339	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2693755	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2138428	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	7907	0.088	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	22362m	0.095	ppbv	
35) Carbon Tetrachloride	7.01	117	19255m	0.079	ppbv	
38) Trichloroethene	7.83	130	13418m	0.115	ppbv	
52) Tetrachloroethene	11.21	164	10918m	0.102	ppbv	
54) 1,2-Dibromoethane	10.59	107	16032m	0.095	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	21072m	0.086	ppbv	
79) Naphthalene	22.18	128	19967m	0.090	ppbv	

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

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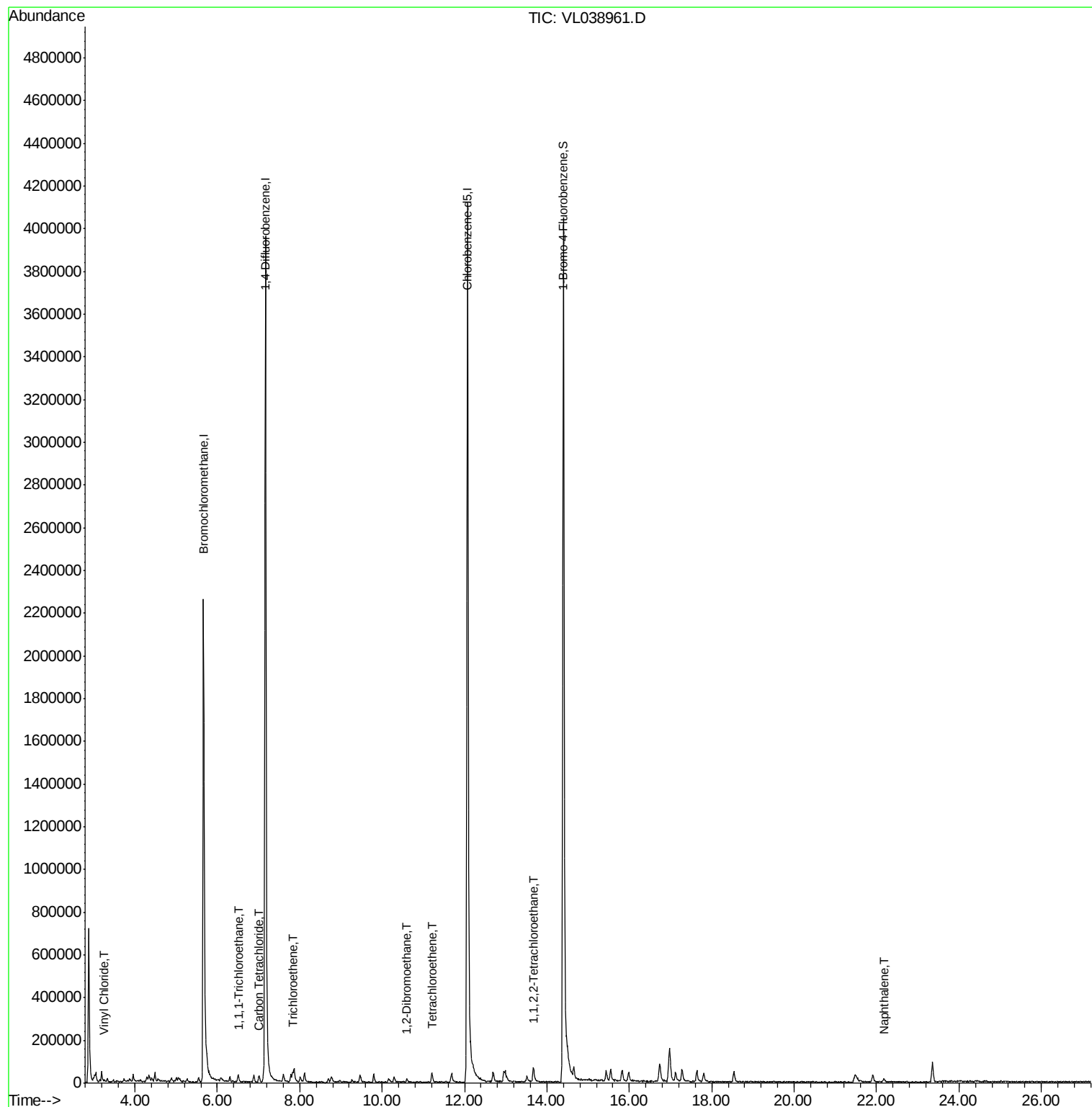
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522

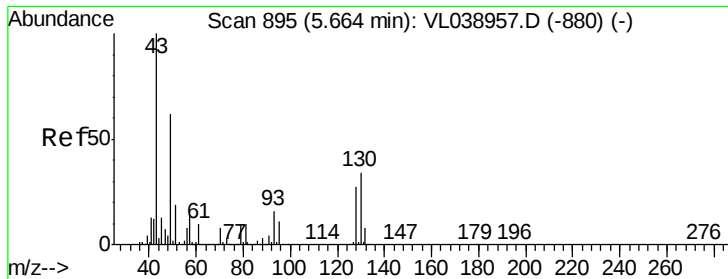
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 04:53:24 2022

Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 05/09/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 5 May 2022 5:16 VSTDIC0.1

Tot Ion:

Ion Ratio

49 100

128 46.

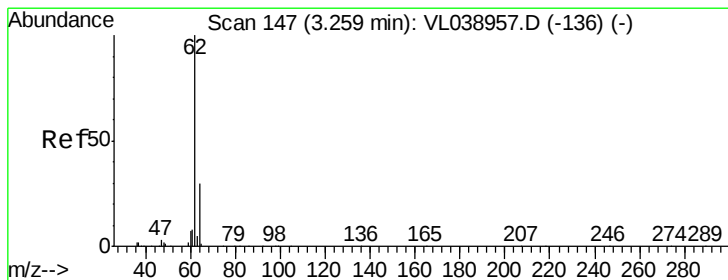
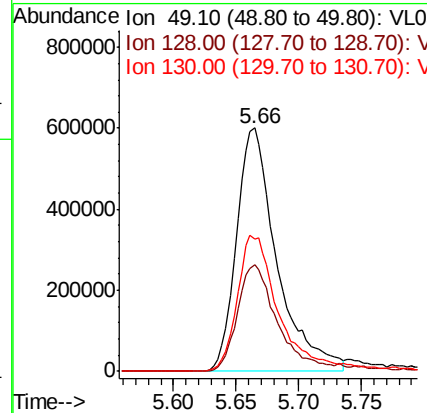
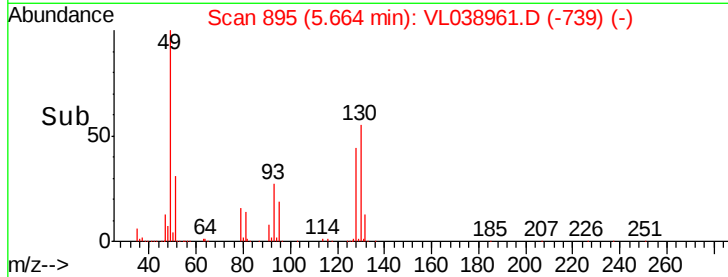
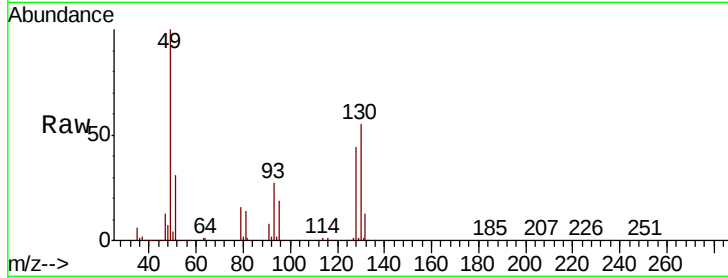
130 60.

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.088 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL038961.D

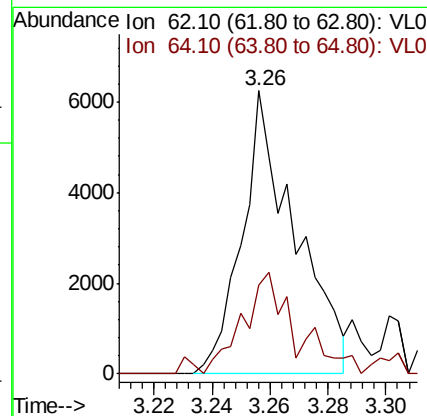
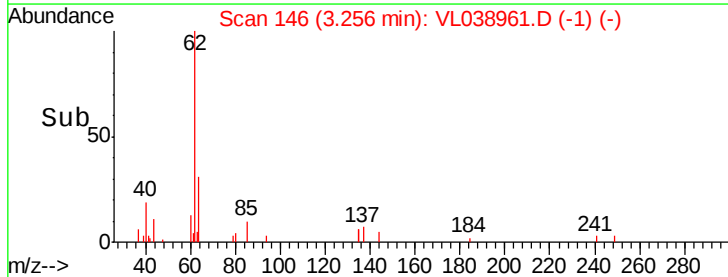
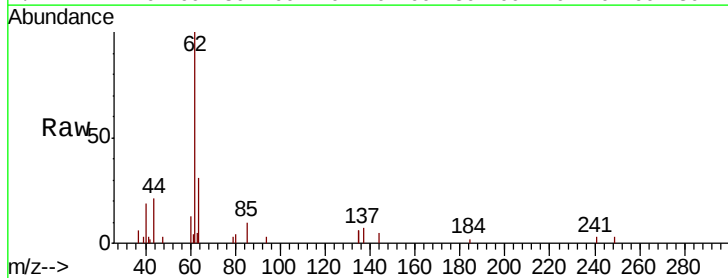
Acq: 5 May 2022 5:16

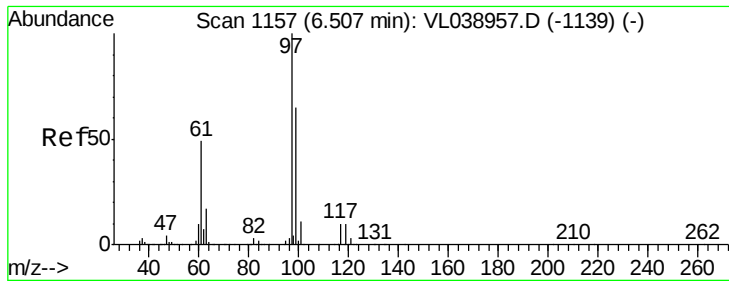
Tgt Ion: 62 Resp: 7907

Ion Ratio Lower Upper

62 100

64 28.0 24.2 36.4



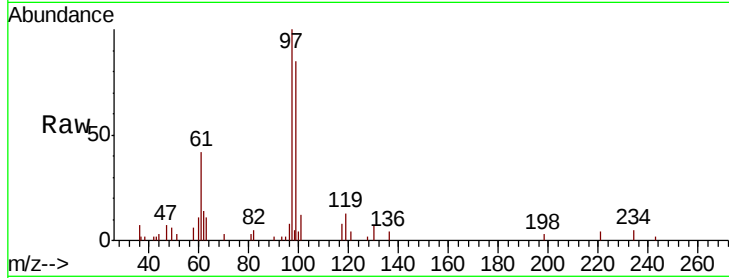


#32
 1,1,1-Trichloroethane
 Concen: 0.095 ppbv m
 RT: 6.51
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VSTDIC0.1
 Acq: 5 May 2022 5:16

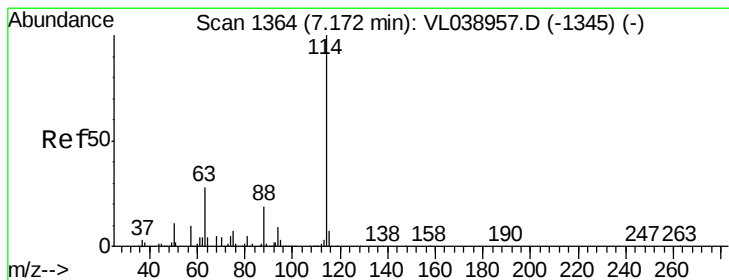
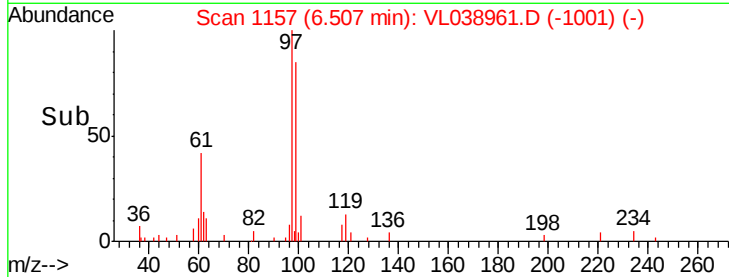
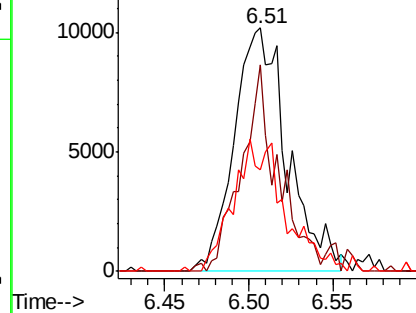
Tot Ion:
 Ion Ratio
 97 100
 99 63.
 61 52.

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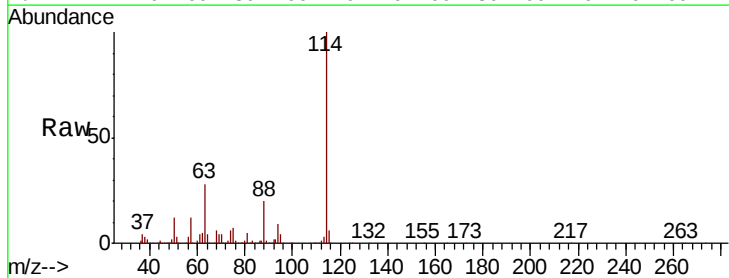


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

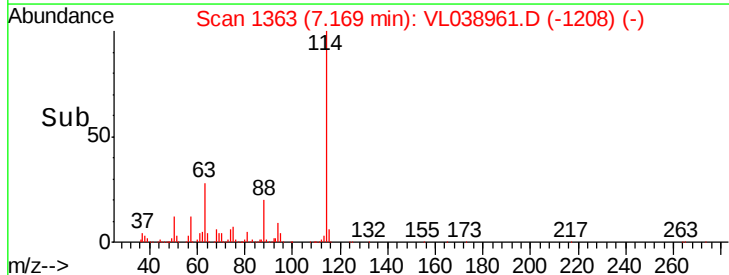
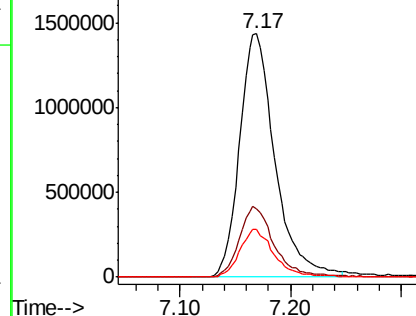


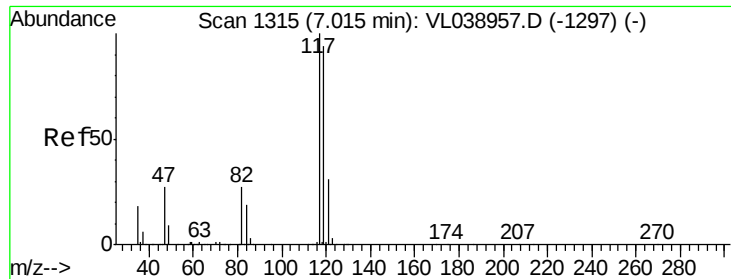
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL038961.D
 Acq: 5 May 2022 5:16

Tgt Ion:114 Resp: 3188339
 Ion Ratio Lower Upper
 114 100
 63 28.7 22.6 33.8
 88 19.6 15.4 23.0



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: 0.079 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 5:16 VSTDIC0.1

Tot Ion:1

Ion Rati

117 100

119 74.

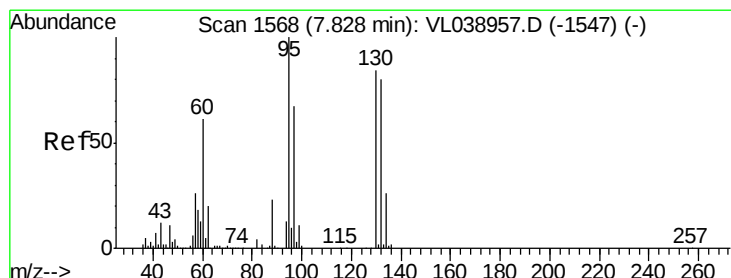
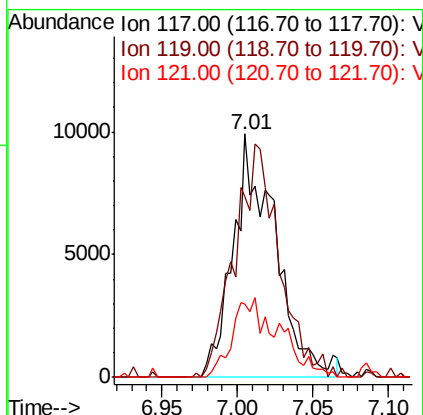
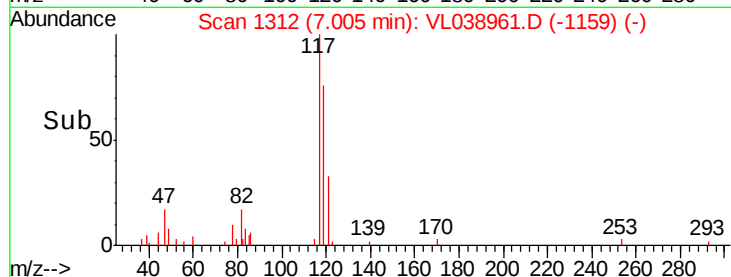
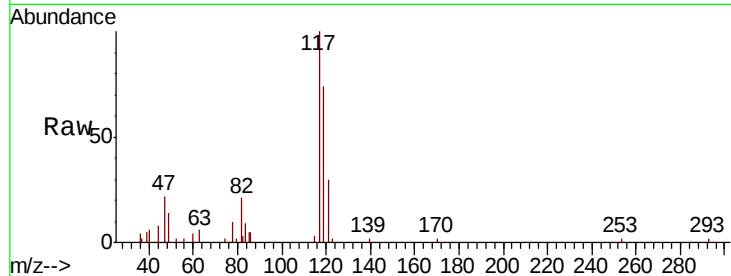
121 29.

Manual Integrations

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#38

Trichloroethene

Concen: 0.115 ppbv m

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL038961.D

Acq: 5 May 2022 5:16

Tgt Ion:130 Resp: 13418

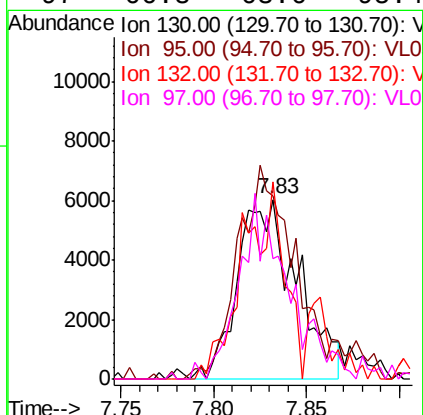
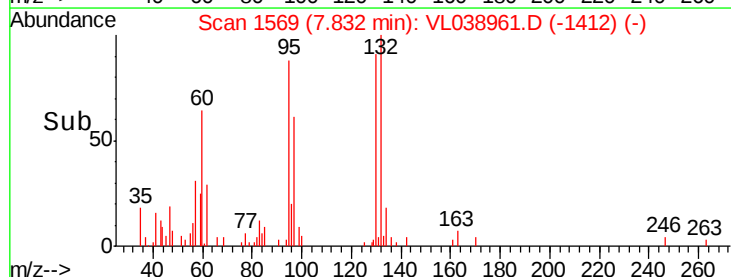
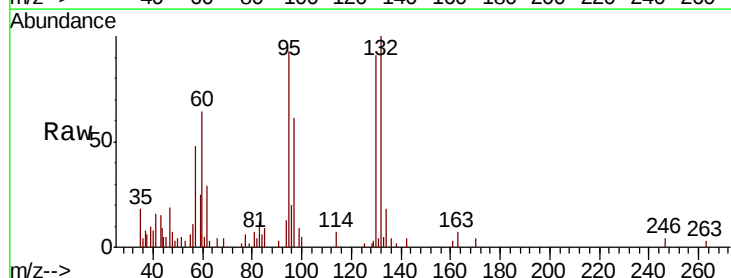
Ion Ratio Lower Upper

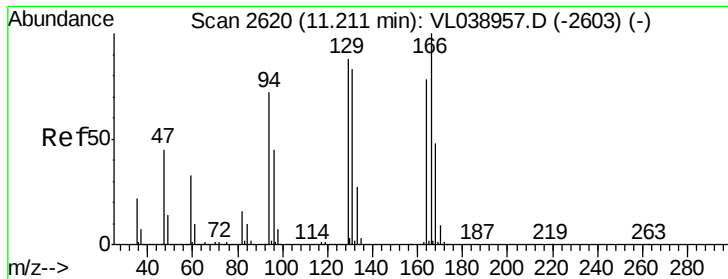
130 100

95 102.1 94.8 142.2

132 109.5 75.8 113.8

97 66.8 63.6 95.4





#52

Tetrachloroethene

Concen: 0.102 ppbv m

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 5:16

Tot Ion:1

Ion Rati

164 100

166 113.

129 66.

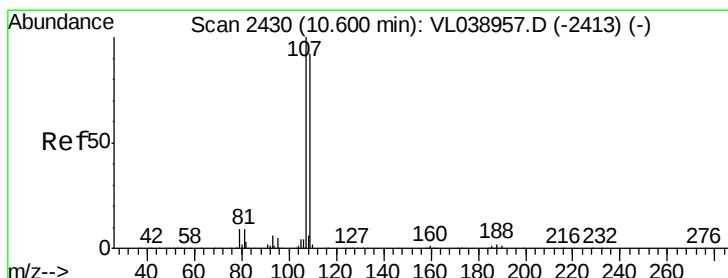
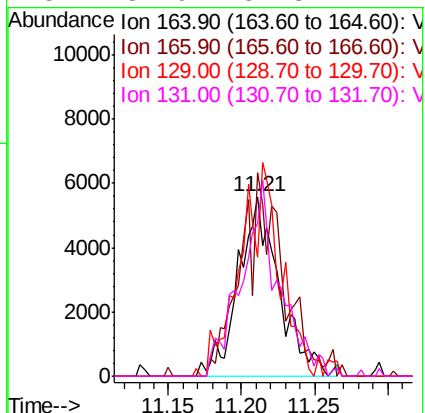
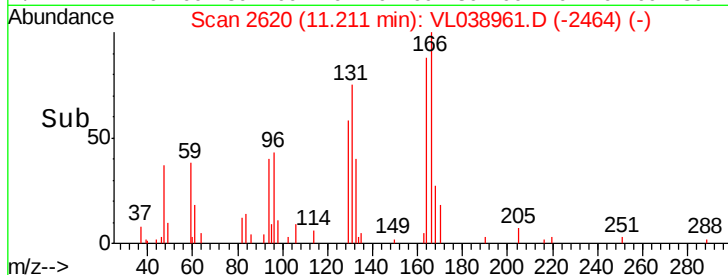
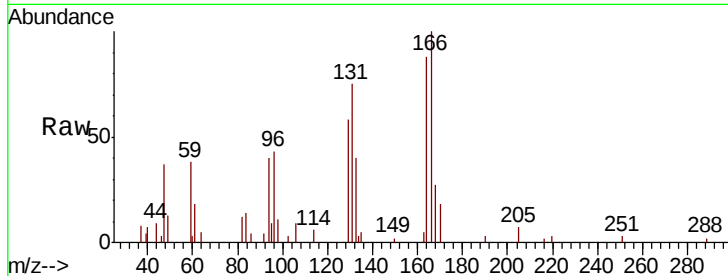
131 84.9 84.8 127.2

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#54

1,2-Dibromoethane

Concen: 0.095 ppbv m

RT: 10.59 min Scan# 2428

Delta R.T. -0.01 min

Lab File: VL038961.D

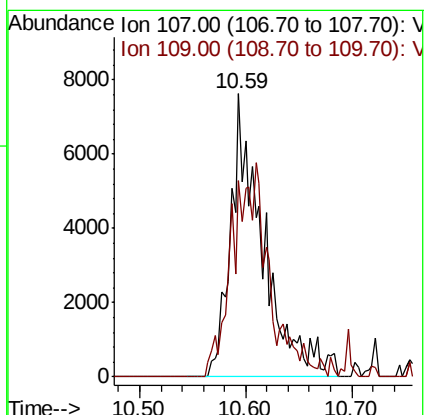
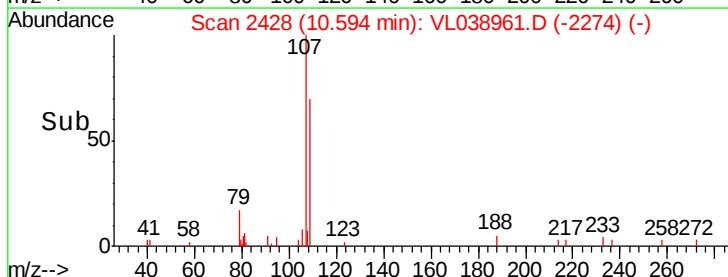
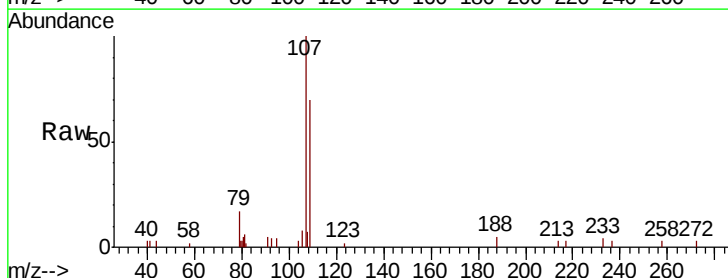
Acq: 5 May 2022 5:16

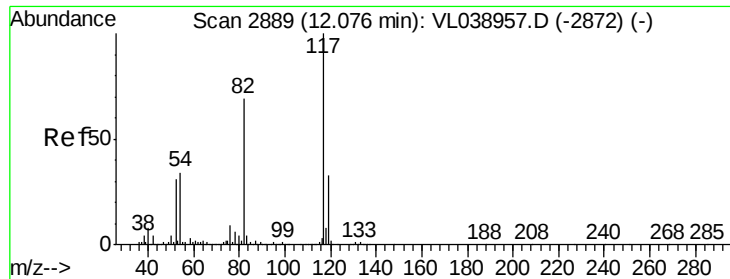
Tgt Ion:107 Resp: 16032

Ion Ratio Lower Upper

107 100

109 69.6 73.8 110.8#



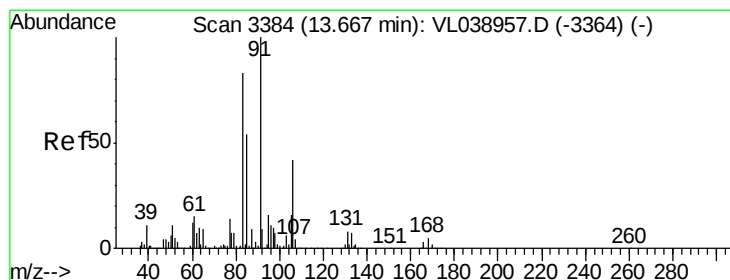
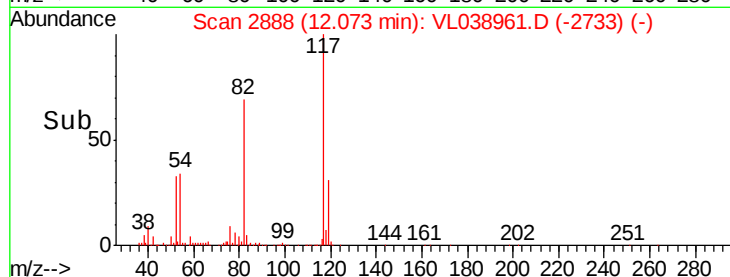
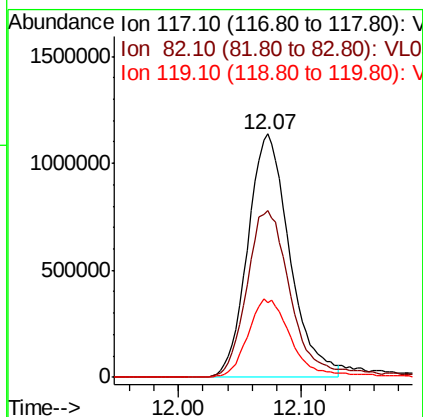
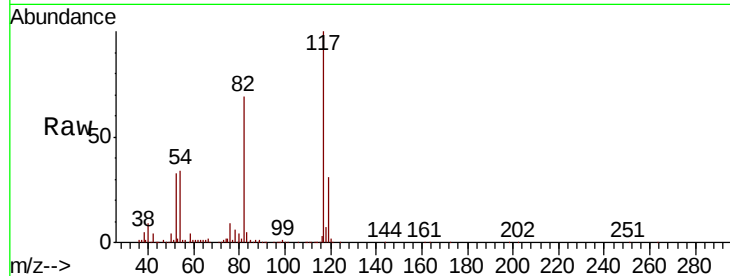


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 5:10

Tot Ion: 1
Ion Ratio
117 100
82 76.
119 34.

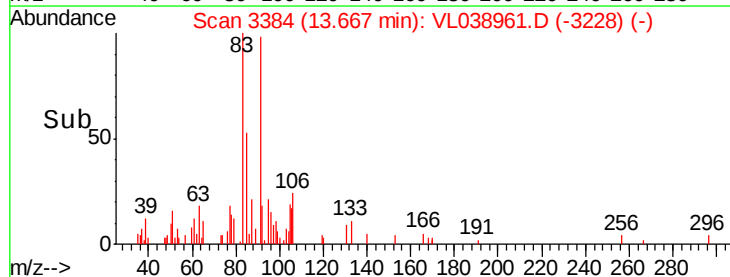
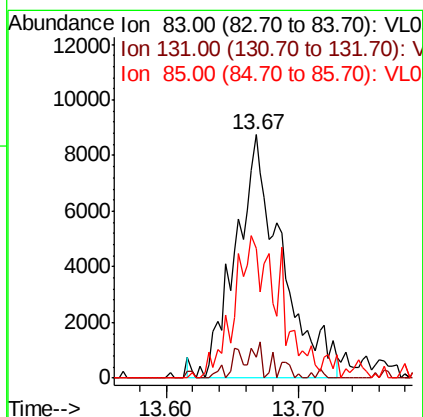
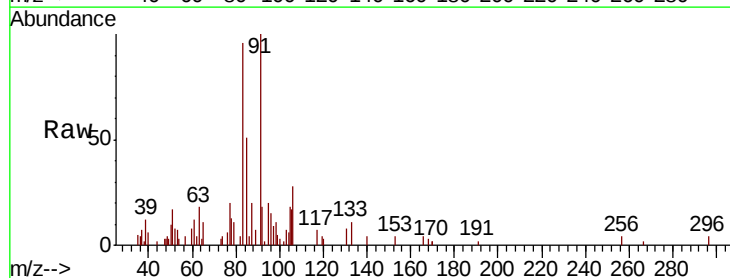
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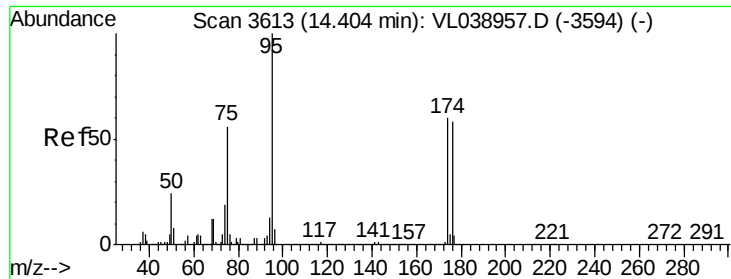
Reviewed By : Semsettin Yesilyurt 05/07/2022
Supervised By : Mahesh Dadoda 05/09/2022



#63
1,1,2,2-Tetrachloroethane
Concen: 0.086 ppbv m
RT: 13.67 min Scan# 3384
Delta R.T.: 0.00 min
Lab File: VL038961.D
Acq: 5 May 2022 5:16

Tgt Ion: 83 Resp: 21072
Ion Ratio Lower Upper
83 100
131 7.7 4.5 13.7
85 61.0 32.8 98.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.036 ppbv

RT: 14.40 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 5:16

Tot Ion:

Ion Ratio

95 100

174 66.

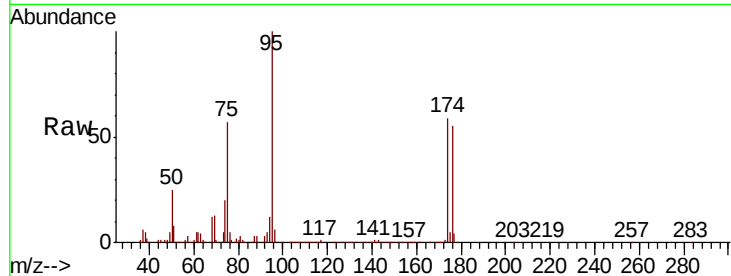
175 4.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

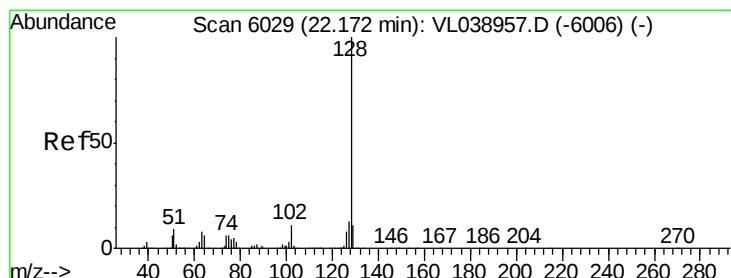
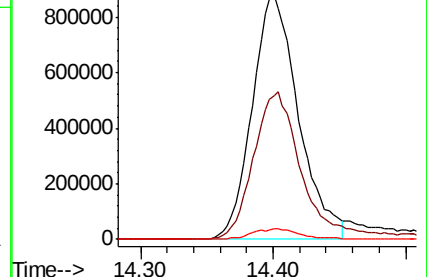
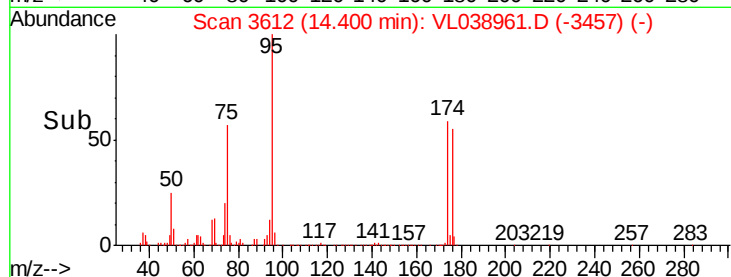
Supervised By :Mahesh Dadoda 05/09/2022



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



#79

Naphthalene

Concen: 0.090 ppbv m

RT: 22.18 min Scan# 6032

Delta R.T. 0.01 min

Lab File: VL038961.D

Acq: 5 May 2022 5:16

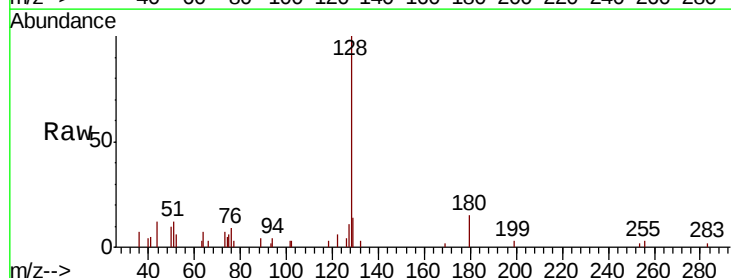
Tgt Ion:128 Resp: 19967

Ion Ratio Lower Upper

128 100

127 11.1 10.2 15.2

129 14.0 8.9 13.3#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

