

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038223.D
 Acq On : 21 Dec 2021 21:38
 Operator : SY/AP
 Sample : M5118-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-2DUP

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 22 08:40:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	629200	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1844320	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1571691	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1213788	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	20565	0.173	ppbv	92
3) Chlorodifluoromethane	3.01	51	37612m	0.284	ppbv	
4) Chloromethane	3.16	50	22035	0.481	ppbv #	88
9) Propene	3.04	41	57540m	1.253	ppbv	
10) Heptane	8.13	43	13894m	0.119	ppbv	
11) Trichlorofluoromethane	3.96	101	27372	0.251	ppbv	90
13) Ethanol	3.62	45	343440	44.126	ppbv #	100
15) Acetone	3.86	43	354090	5.607	ppbv	90
19) Isopropyl Alcohol	3.99	45	261834	6.648	ppbv #	39
20) Methylene Chloride	4.36	84	522600	14.658	ppbv	93
26) Hexane	5.70	57	389882	4.542	ppbv #	45
34) 2-Butanone	5.26	43	26109	0.471	ppbv #	88
35) Carbon Tetrachloride	7.02	117	7266m	0.064	ppbv	
36) Benzene	6.90	78	56299	0.327	ppbv	98
41) Tetrahydrofuran	6.08	42	5829m	0.144	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	55024	0.188	ppbv #	71
52) Tetrachloroethene	11.22	164	5599m	0.088	ppbv	
53) Toluene	9.81	91	142742	0.719	ppbv	97
58) Ethyl Benzene	12.71	91	25785m	0.106	ppbv	
59) m/p-Xylene	12.97	91	68143m	0.327	ppbv	
60) o-Xylene	13.70	91	27152m	0.140	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	22443m	0.107	ppbv	

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

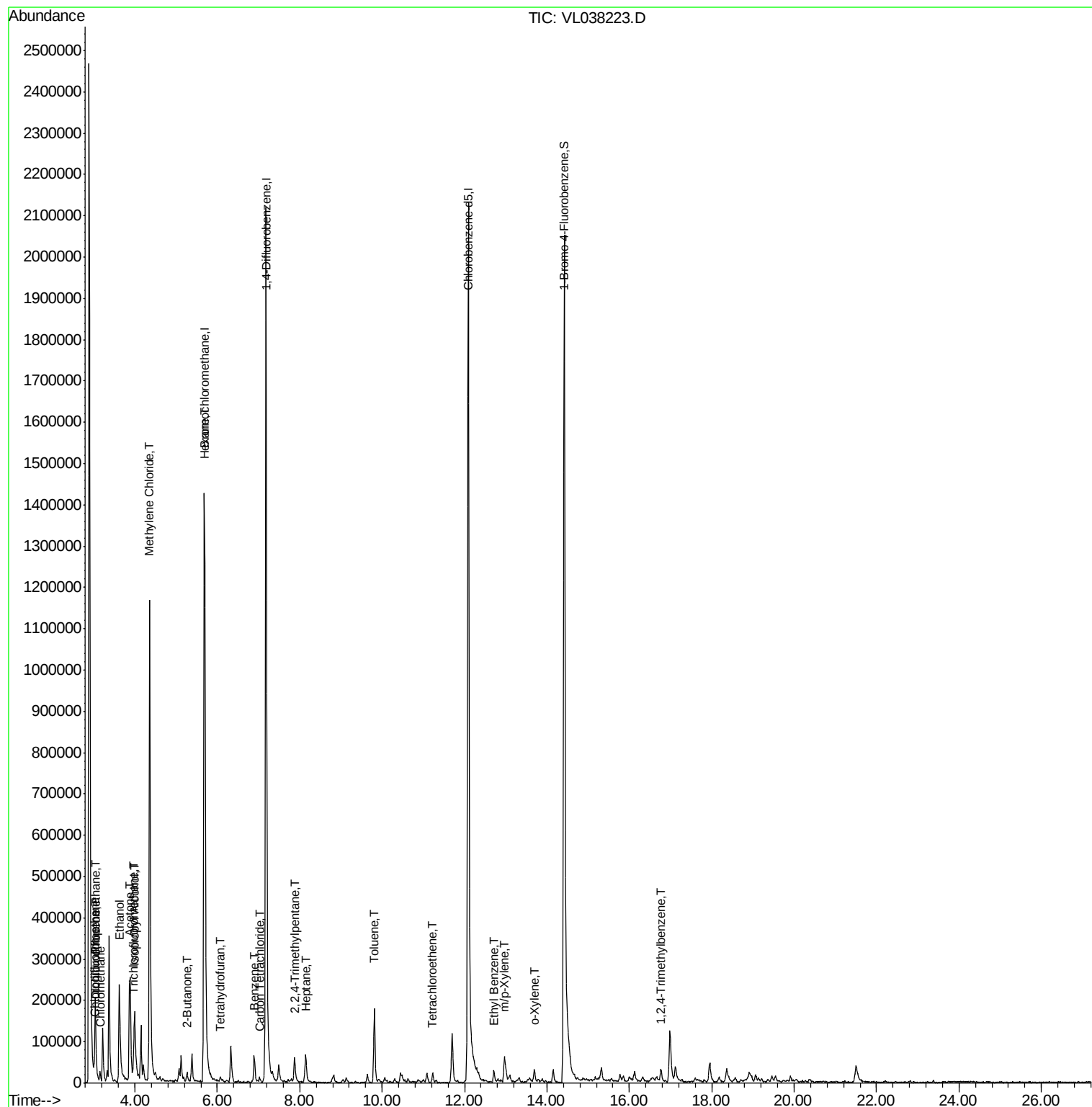
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
Data File : VL038223.D
Acq On : 21 Dec 2021 21:38
Operator : SY/AP
Sample : M5118-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

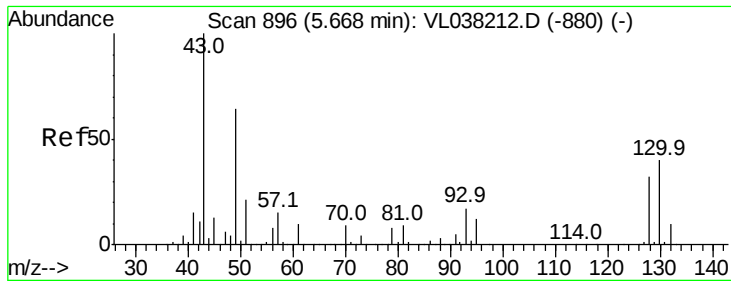
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Dec 22 08:40:04 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121
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Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: IA-2DUP

Acq: 21 Dec 2021 21:38

Tot Ion:

Ion Ratio

49 100

128 51.

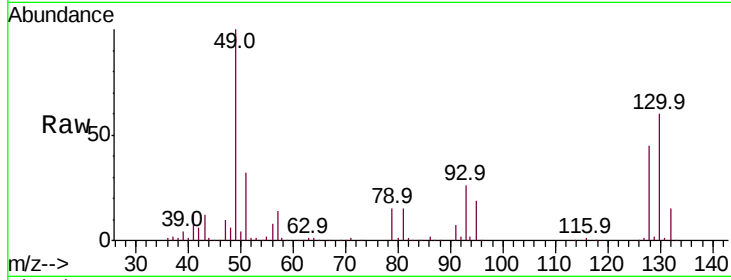
130 64.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

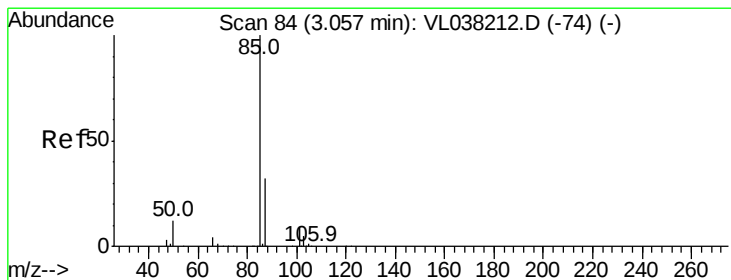
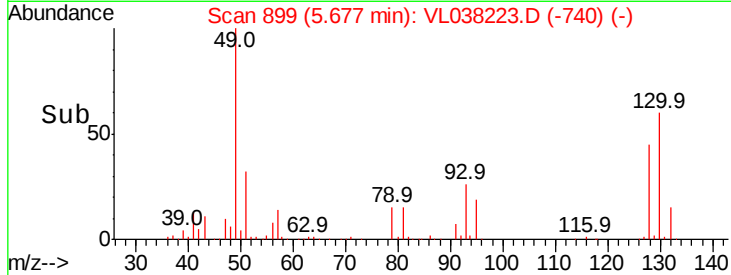
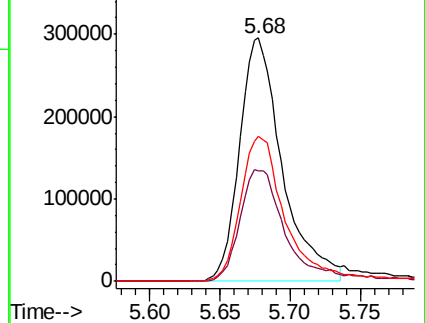
Supervised By :Mahesh Dadoda 12/29/2021



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



#2

Dichlorodifluoromethane

Concen: 0.173 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL038223.D

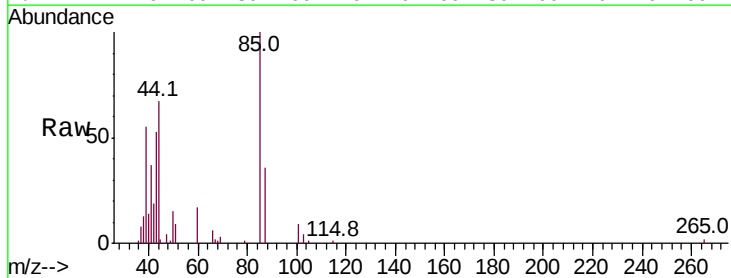
Acq: 21 Dec 2021 21:38

Tgt Ion: 85 Resp: 20565

Ion Ratio Lower Upper

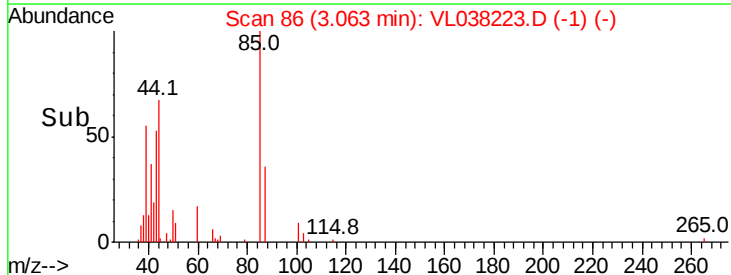
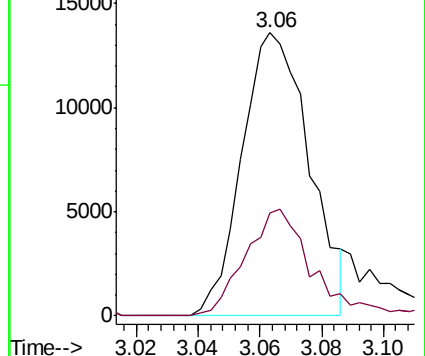
85 100

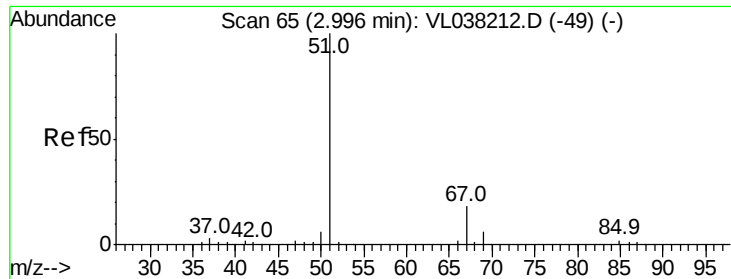
87 36.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



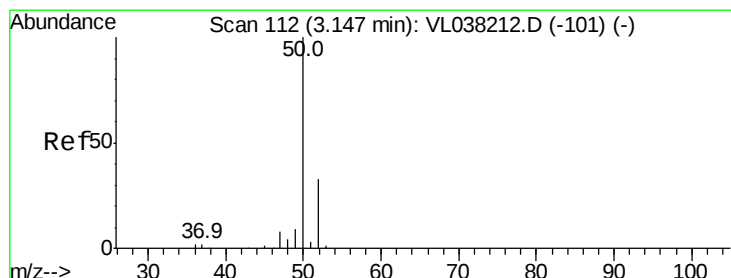
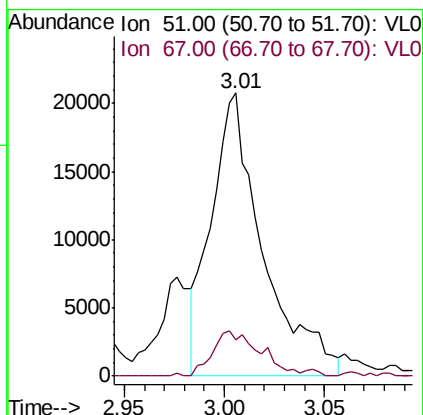
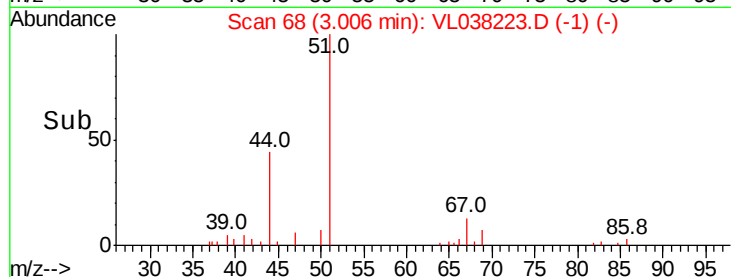
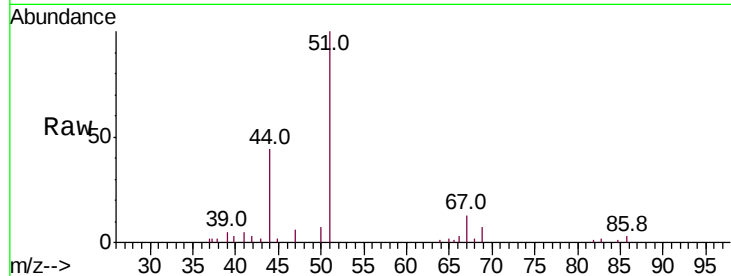


#3
Chlorodifluoromethane
Concen: 0.284 ppbv m
RT: 3.01
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 21 Dec 2021 21:38

Tot Ion:
Ion Ratio
51 100
67 15.

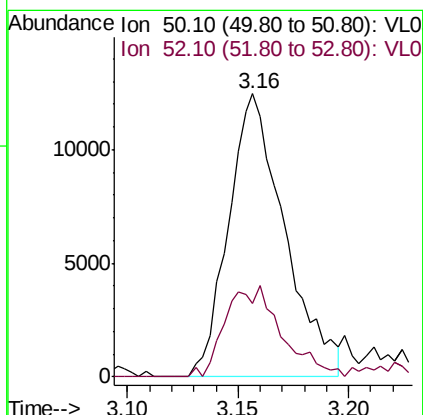
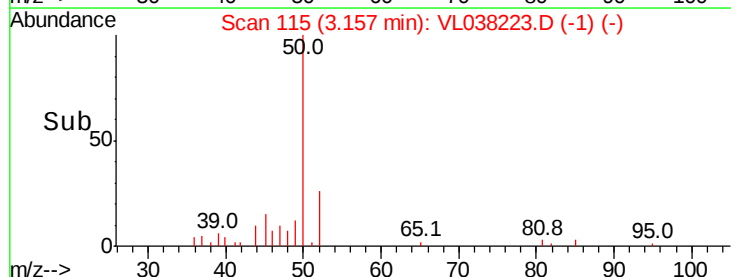
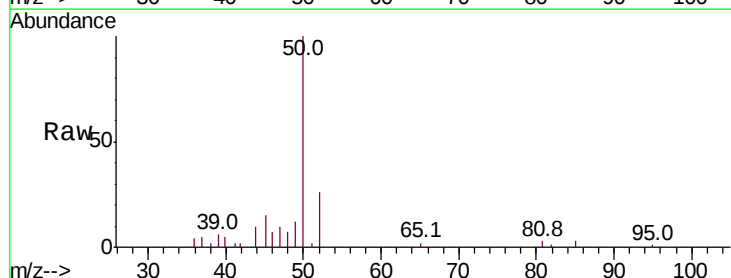
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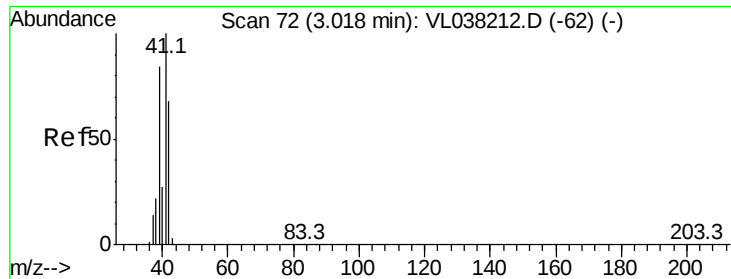
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#4
Chloromethane
Concen: 0.481 ppbv
RT: 3.16 min Scan# 115
Delta R.T. 0.01 min
Lab File: VL038223.D
Acq: 21 Dec 2021 21:38

Tgt Ion: 50 Resp: 22035
Ion Ratio Lower Upper
50 100
52 26.0 26.2 39.2#





#9

Propene

Concen: 1.253 ppbv m

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 21:38

Tot Ion:

Ion Ratio

41 100

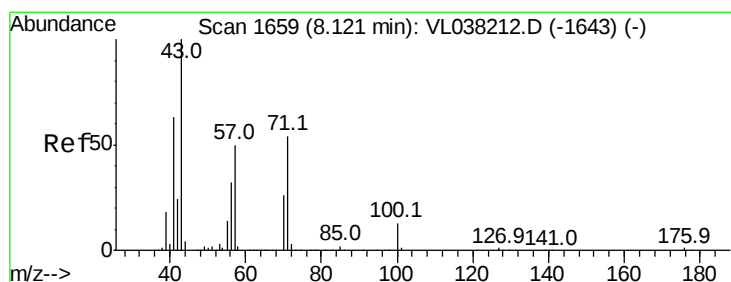
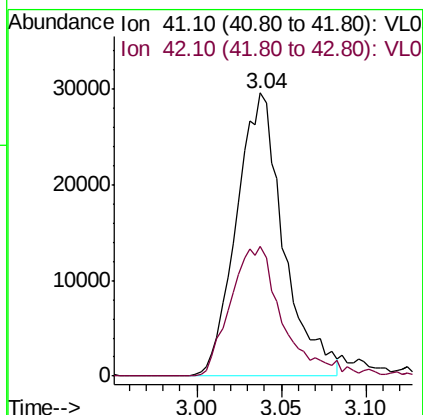
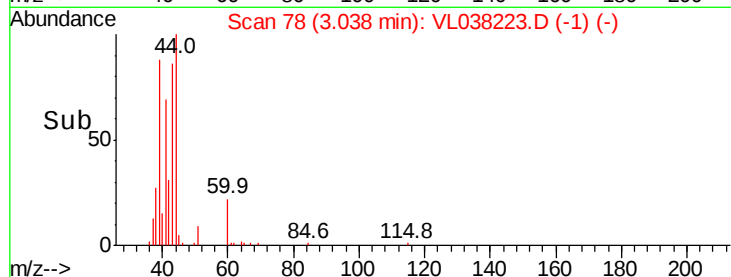
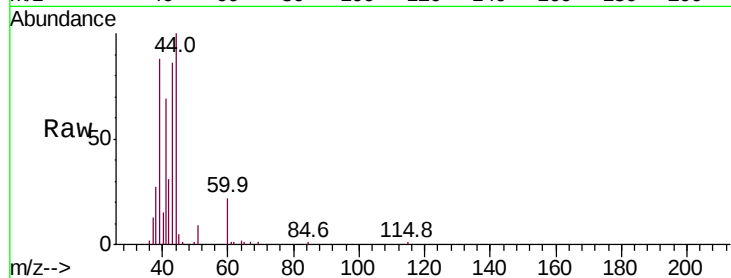
42 52.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#10

Heptane

Concen: 0.119 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL038223.D

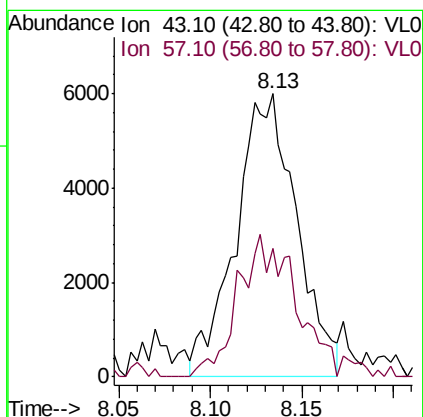
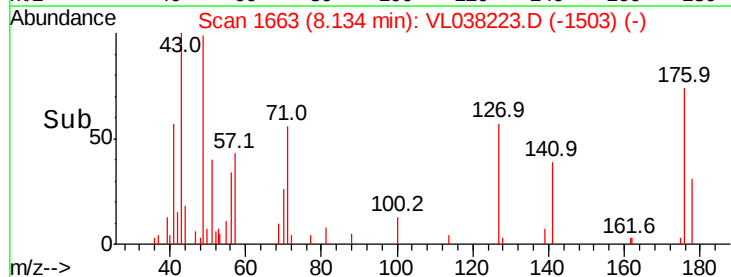
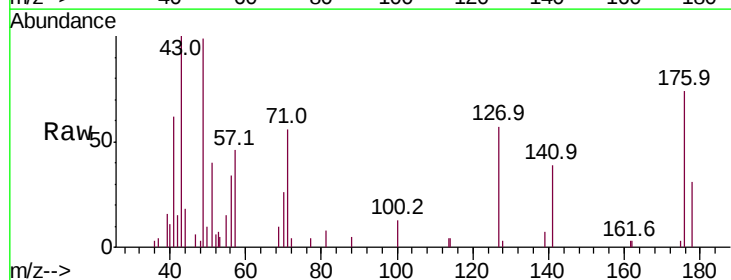
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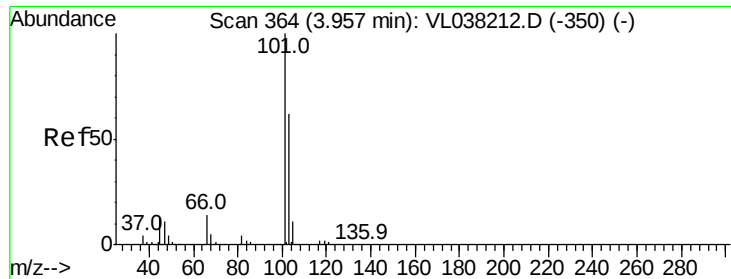
Tgt Ion: 43 Resp: 13894

Ion Ratio Lower Upper

43 100

57 0.0 40.3 60.5#



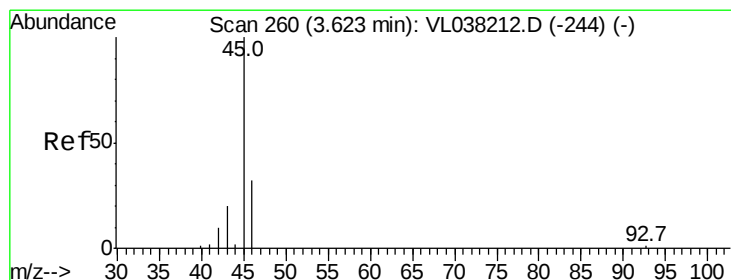
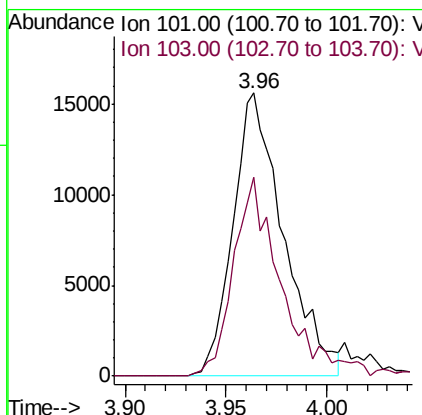
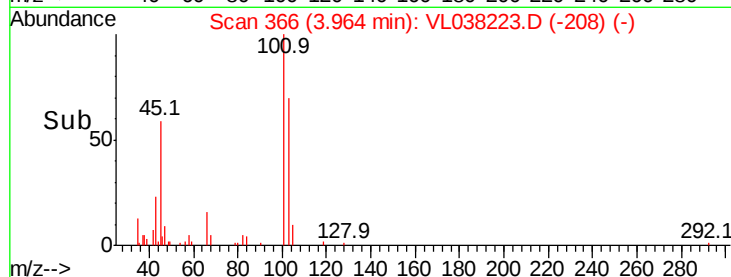
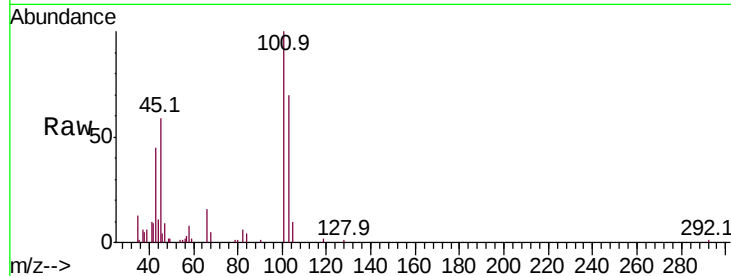


#11
 Trichlorofluoromethane
 Concen: 0.251 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 21 Dec 2021 21:38

Tot Ion:1
 Ion Rati
 101 100
 103 70.

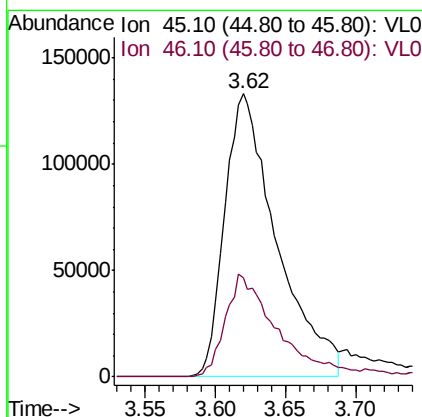
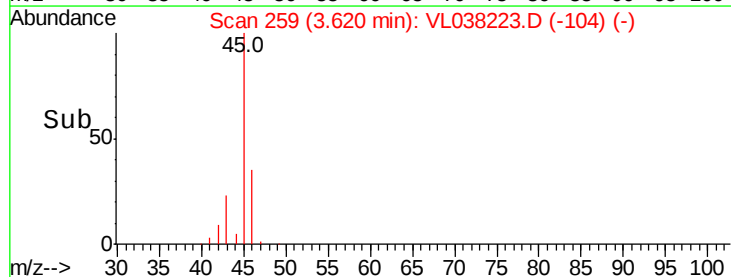
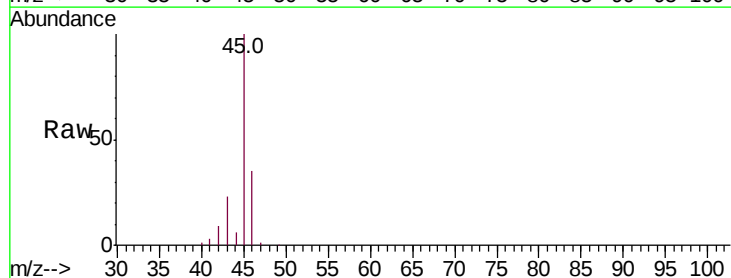
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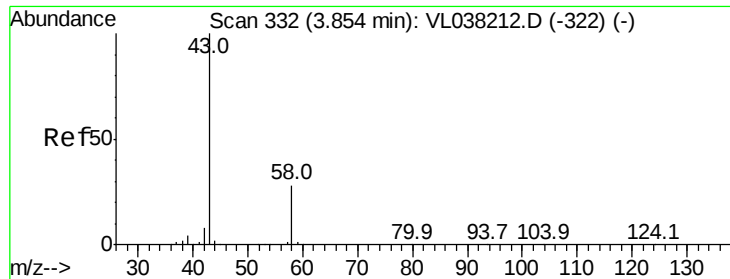
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#13
 Ethanol
 Concen: 44.126 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. -0.00 min
 Lab File: VL038223.D
 Acq: 21 Dec 2021 21:38

Tgt Ion: 45 Resp: 343440
 Ion Ratio Lower Upper
 45 100
 46 37.7 0.0 0.0#





#15

Acetone

Concen: 5.607 ppbv

RT: 3.86

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 21:38

Tot Ion:

Ion Ratio

43 100

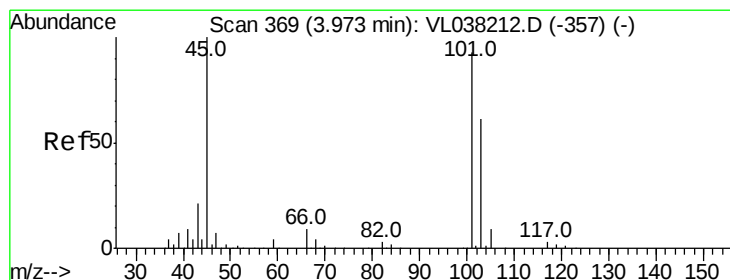
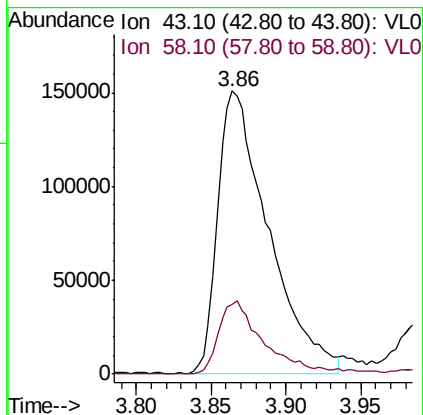
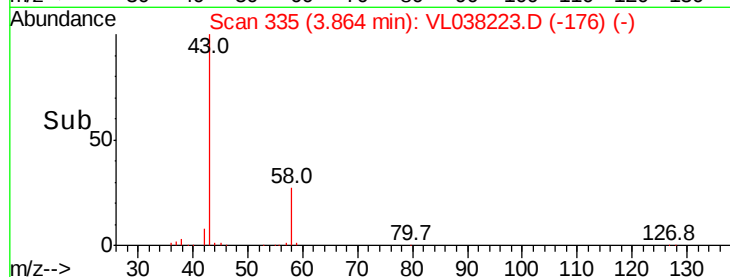
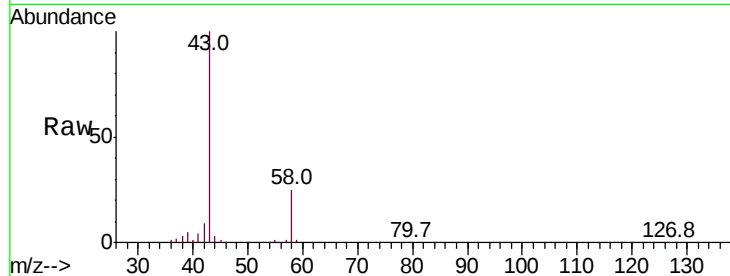
58 23.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#19

Isopropyl Alcohol

Concen: 6.648 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL038223.D

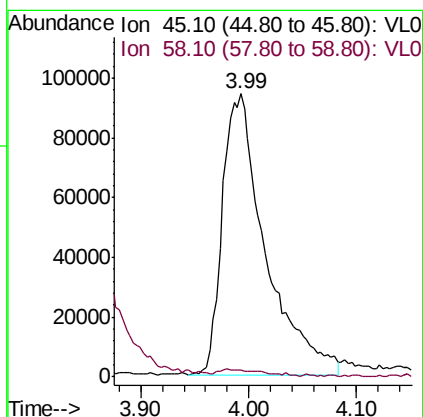
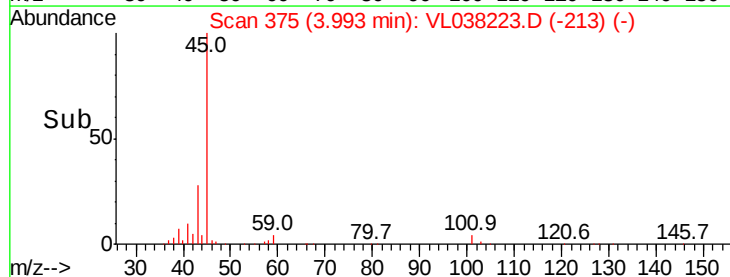
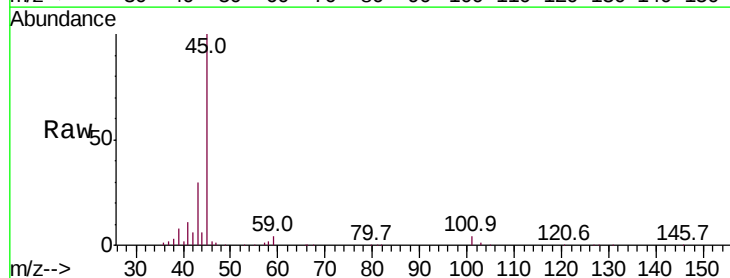
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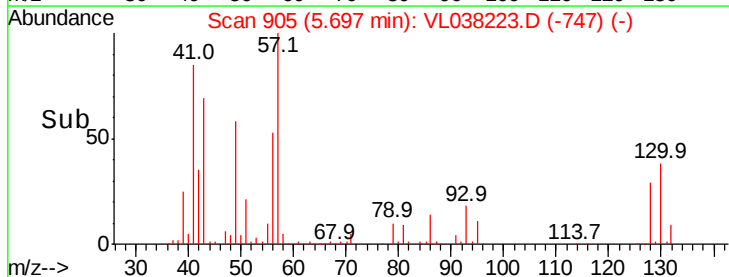
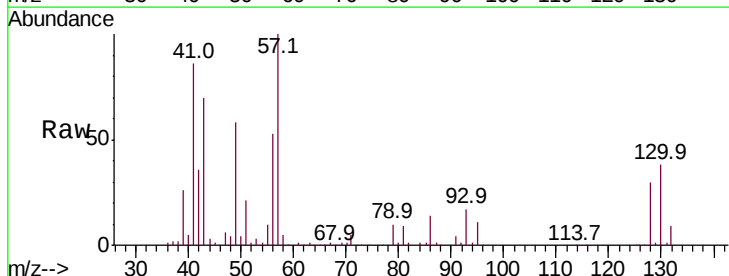
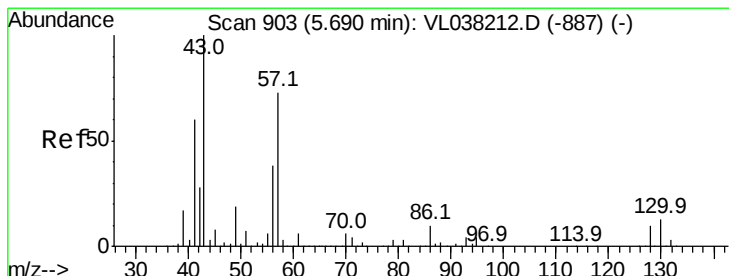
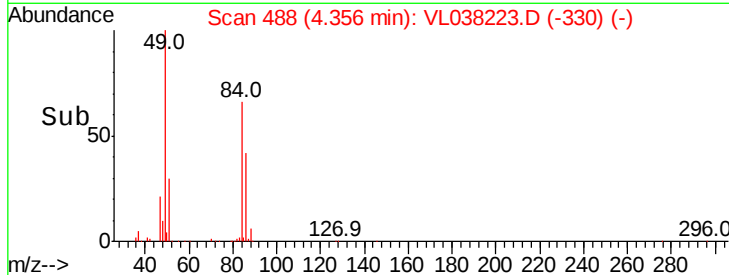
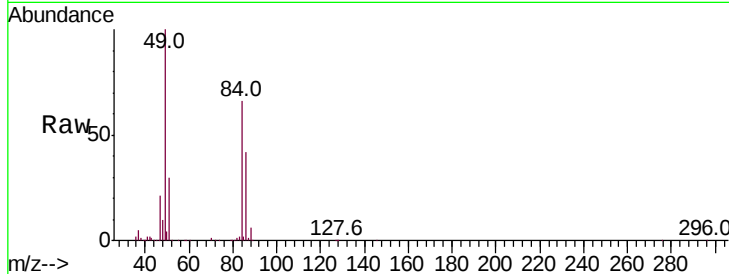
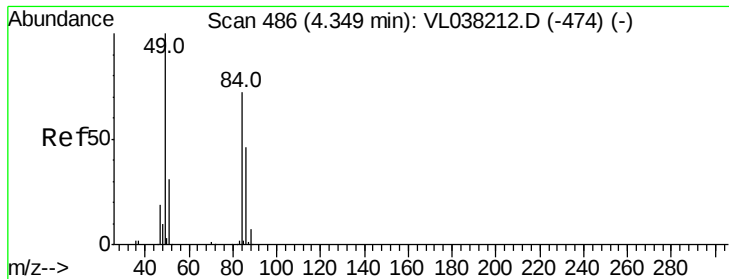
Tgt Ion: 45 Resp: 261834

Ion Ratio Lower Upper

45 100

58 2.6 32.4 48.6#



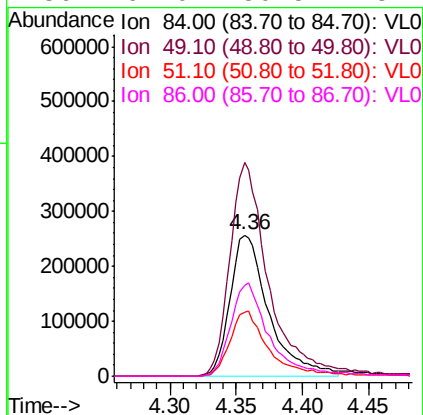


#20
Methvlene Chloride
Concen: 14.658 ppbv
RT: 4.36
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 21 Dec 2021 21:38

Tot Ion:
Ion Ratio
84 100
49 151.
51 45.
86 64.0 50.5 75.7

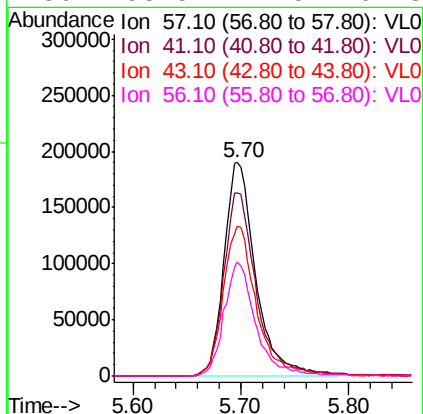
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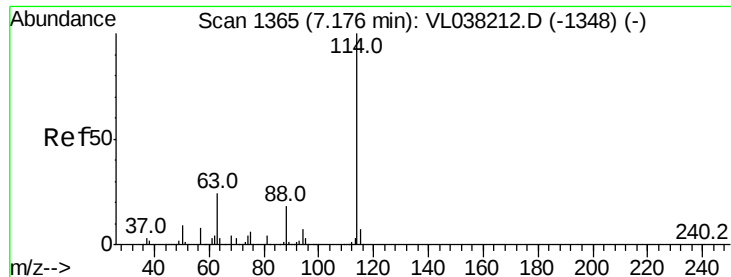
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#26
Hexane
Concen: 4.542 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL038223.D
Acq: 21 Dec 2021 21:38

Tgt Ion: 57 Resp: 389882
Ion Ratio Lower Upper
57 100
41 89.4 69.0 103.6
43 74.8 171.2 256.8#
56 53.5 41.5 62.3



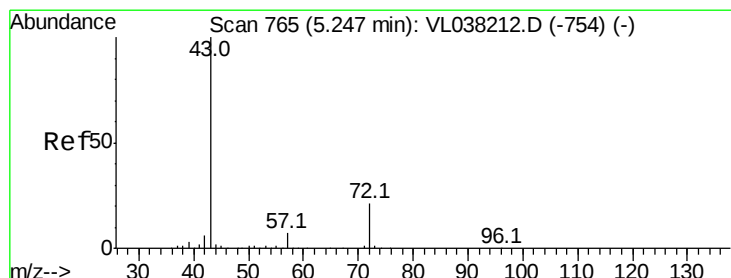
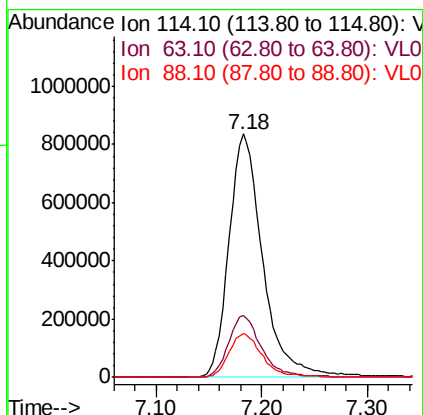
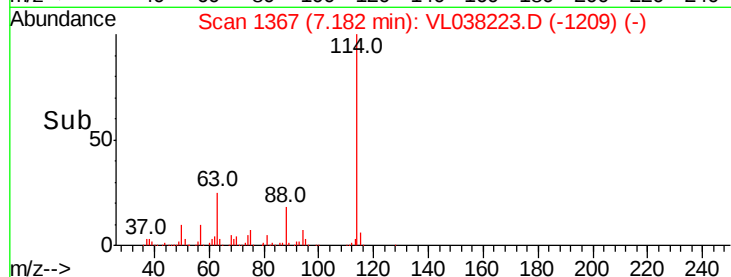
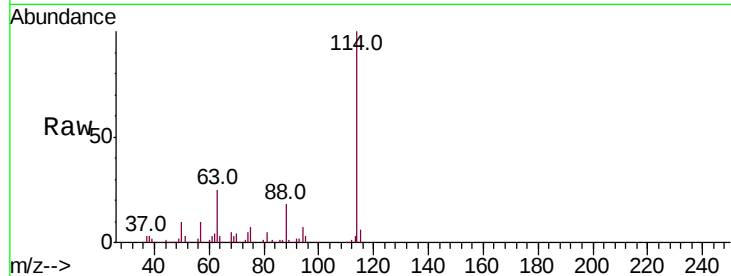


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 21 Dec 2021 21:38

Tot Ion:1
 Ion Rati
 114 100
 63 25.
 88 18.

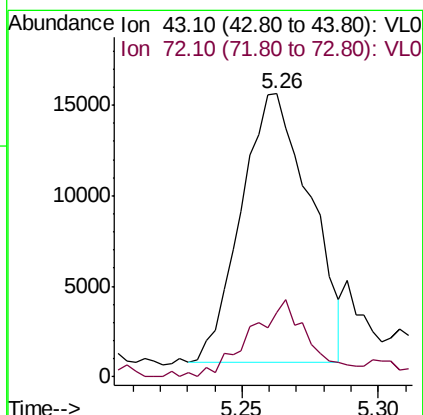
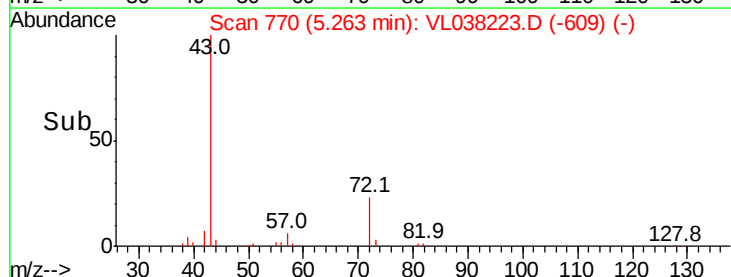
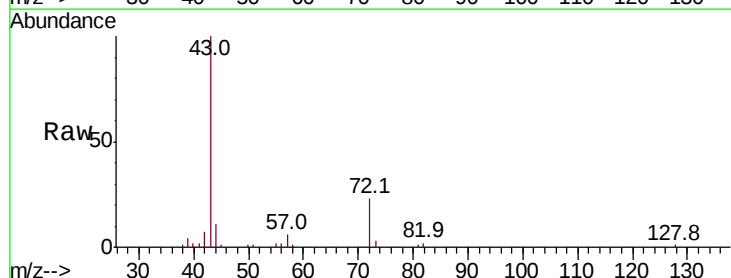
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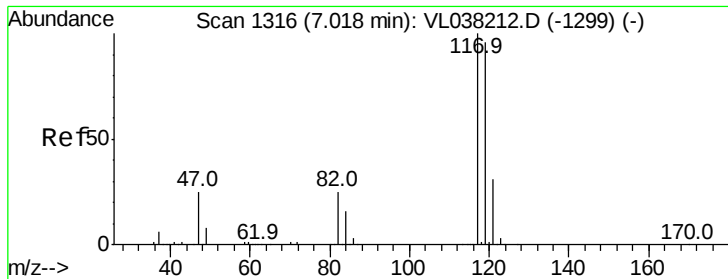
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#34
 2-Butanone
 Concen: 0.471 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.02 min
 Lab File: VL038223.D
 Acq: 21 Dec 2021 21:38

Tgt Ion: 43 Resp: 26109
 Ion Ratio Lower Upper
 43 100
 72 28.8 18.3 27.5#





#35

Carbon Tetrachloride

Concen: 0.064 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 21:38

Tot Ion:1

Ion Rati

117 100

119 78.

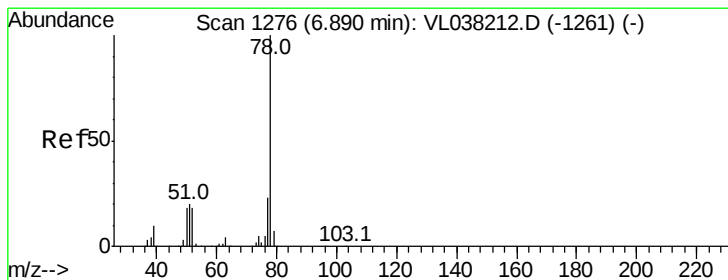
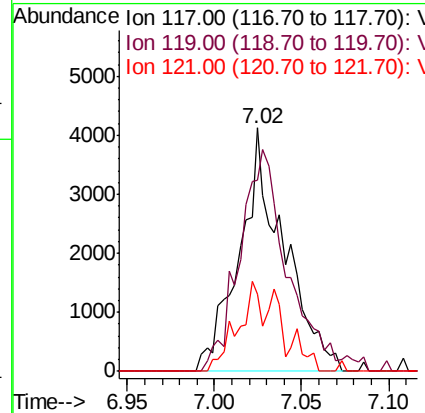
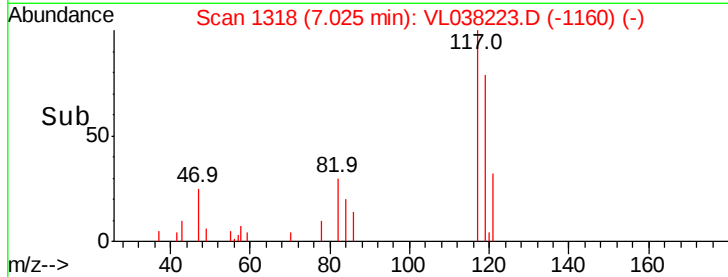
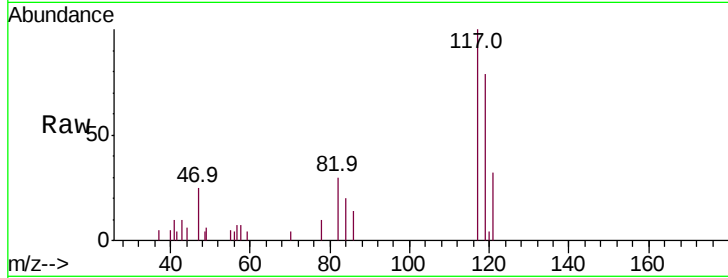
121 31.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#36

Benzene

Concen: 0.327 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL038223.D

Acq: 21 Dec 2021 21:38

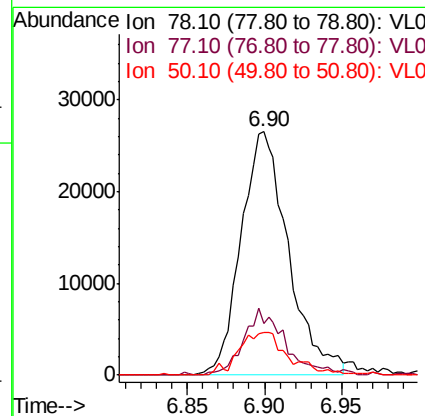
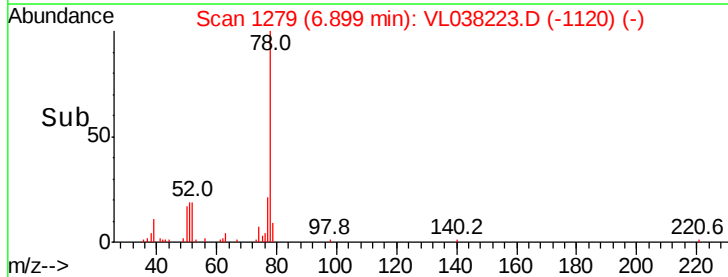
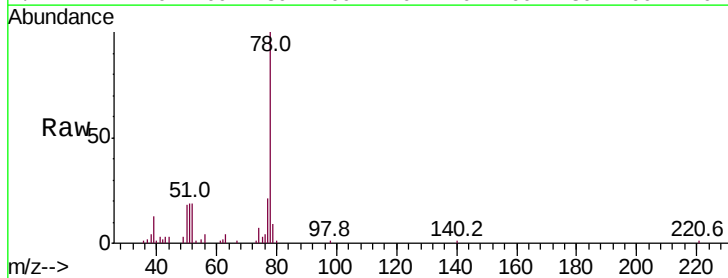
Tgt Ion: 78 Resp: 56299

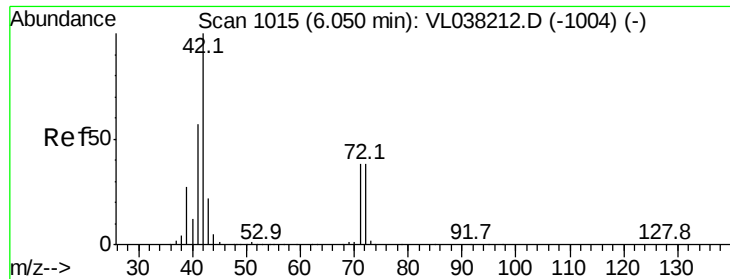
Ion Ratio Lower Upper

78 100

77 21.1 18.2 27.4

50 17.6 14.3 21.5



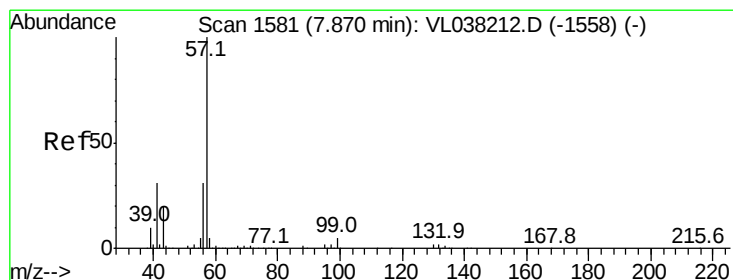
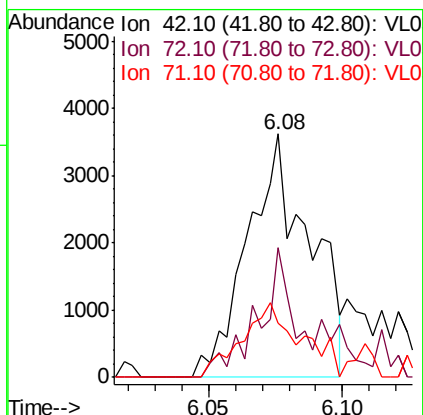
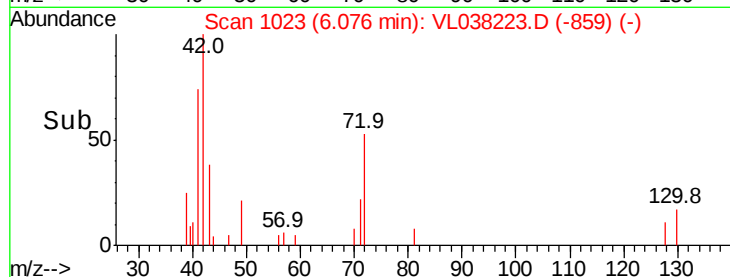
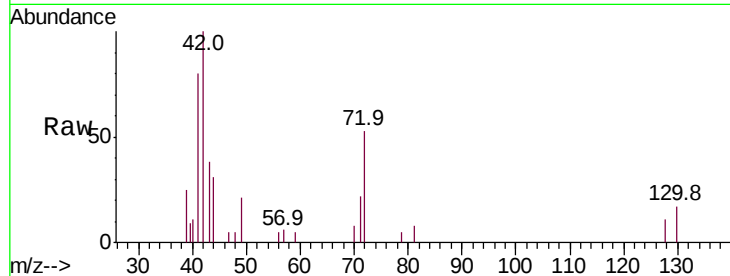


#41
Tetrahydrofuran
Concen: 0.144 ppbv m
RT: 6.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 21 Dec 2021 21:38

Tot Ion:
Ion Ratio
42 100
72 45.
71 33.

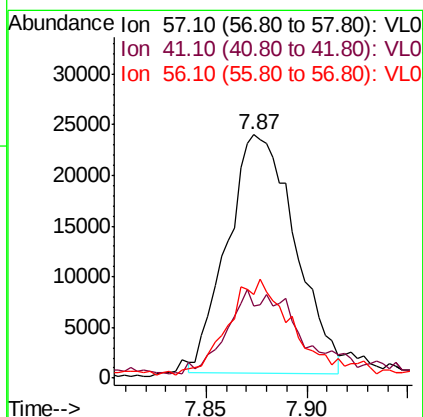
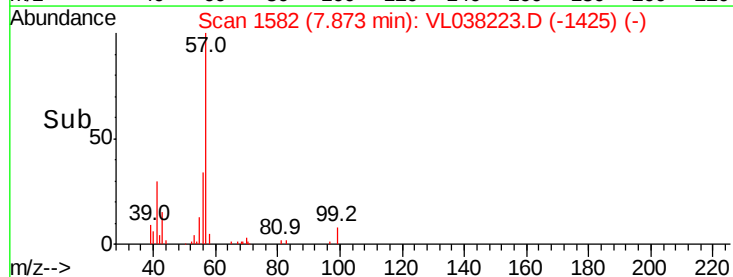
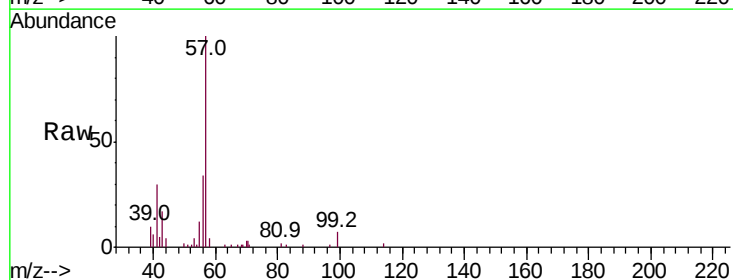
Manual Integrations
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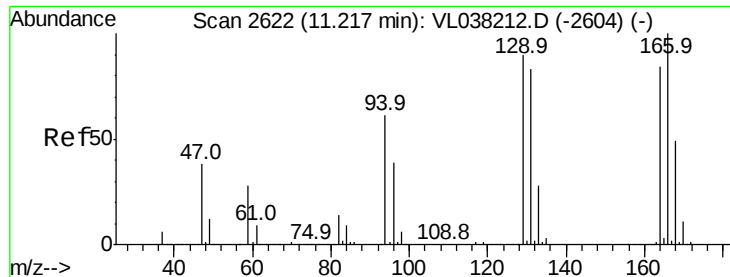
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.188 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL038223.D
Acq: 21 Dec 2021 21:38

Tgt Ion: 57 Resp: 55024
Ion Ratio Lower Upper
57 100
41 45.6 24.9 37.3#
56 48.3 24.8 37.2#





#52

Tetrachloroethene

Concen: 0.088 ppbv m

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 21:38

Tot Ion:1

Ion Rati

164 100

166 123.

129 101.

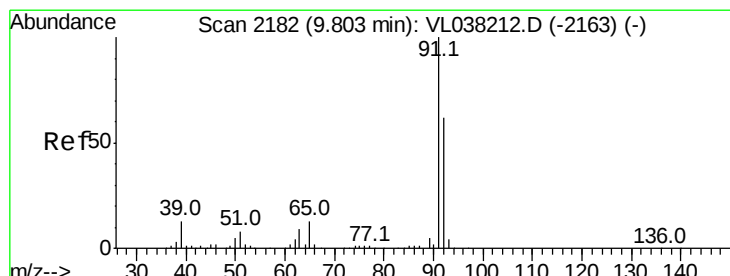
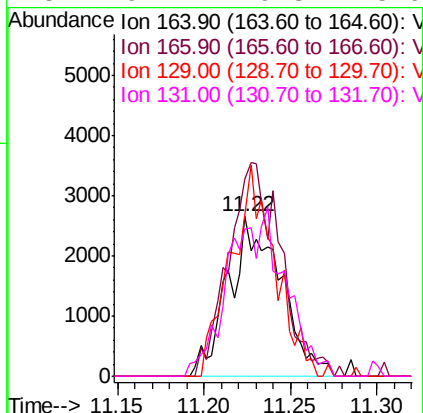
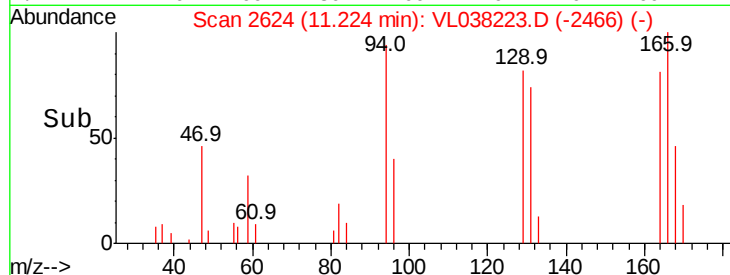
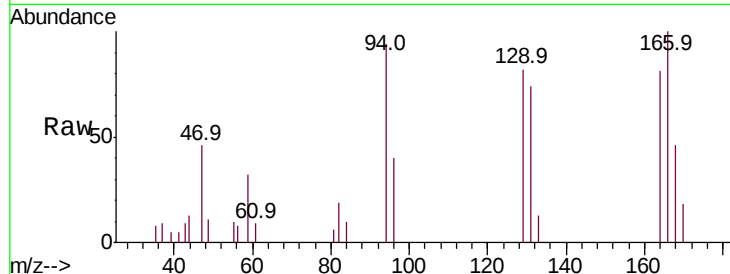
131 92.1 79.3 118.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#53

Toluene

Concen: 0.719 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL038223.D

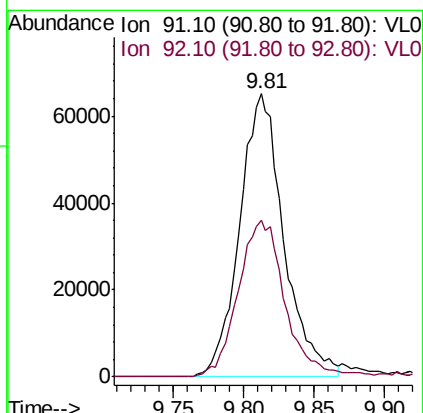
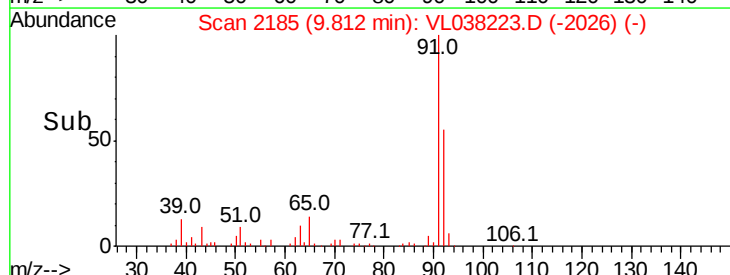
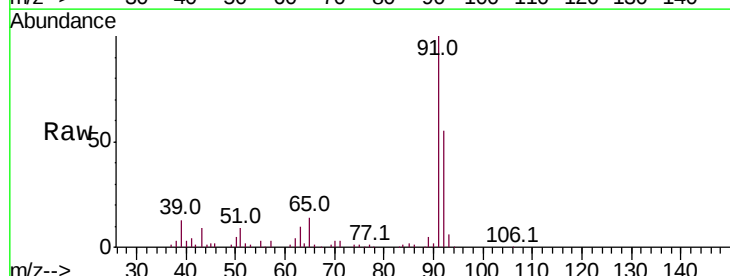
Acq: 21 Dec 2021 21:38

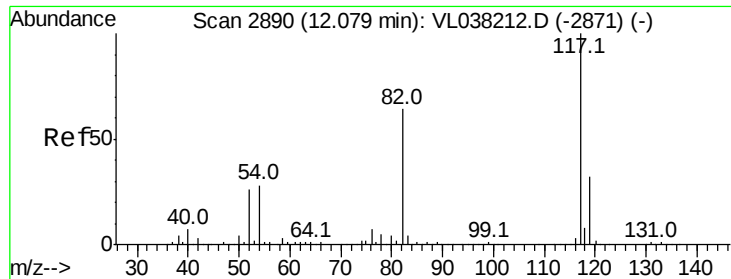
Tgt Ion: 91 Resp: 142742

Ion Ratio Lower Upper

91 100

92 58.9 48.9 73.3



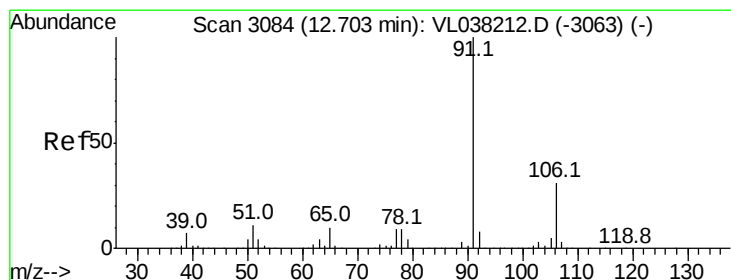
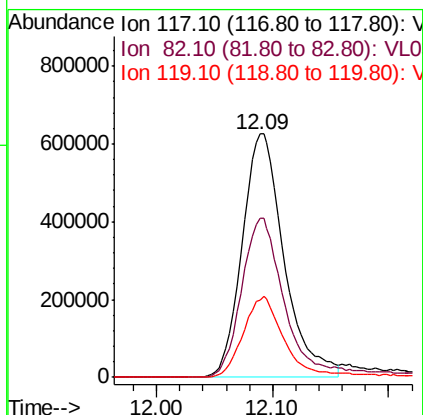
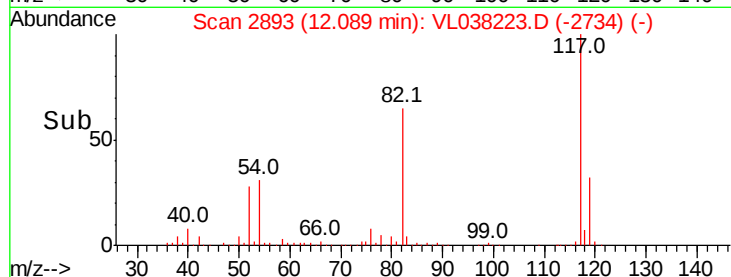
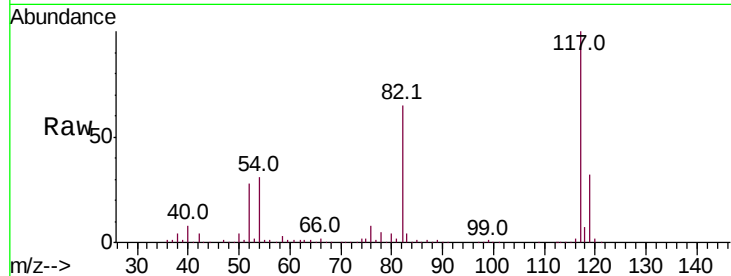


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 21 Dec 2021 21:38

Tot Ion:1
Ion Rati
117 100
82 72.
119 34.

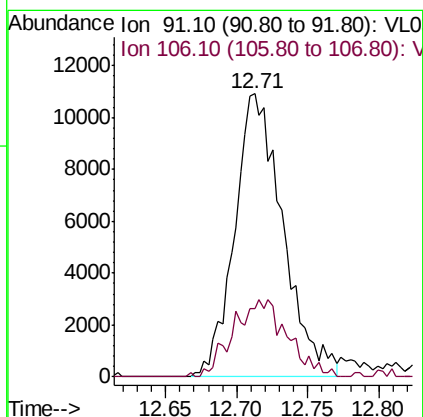
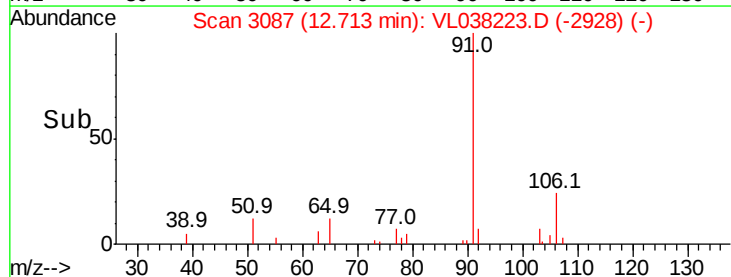
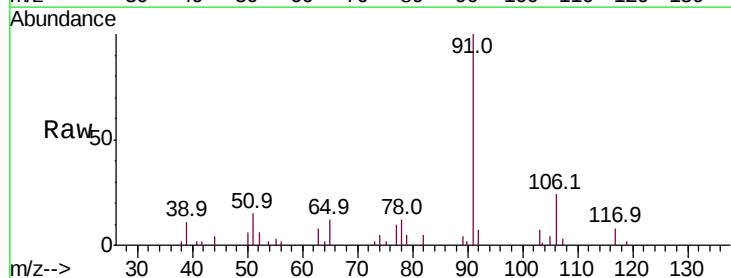
Manual Integrations
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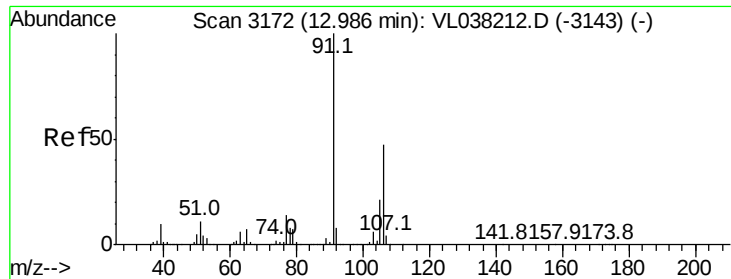
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#58
Ethyl Benzene
Concen: 0.106 ppbv m
RT: 12.71 min Scan# 3087
Delta R.T. 0.01 min
Lab File: VL038223.D
Acq: 21 Dec 2021 21:38

Tgt Ion: 91 Resp: 25785
Ion Ratio Lower Upper
91 100
106 24.4 25.0 37.4#



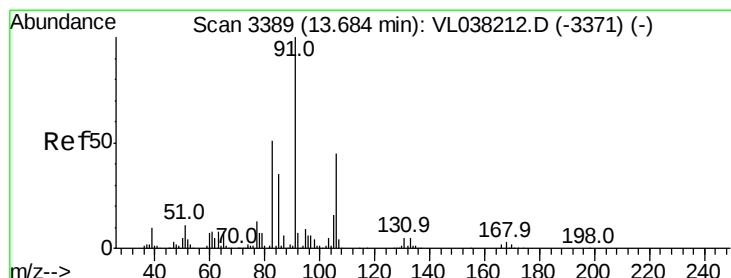
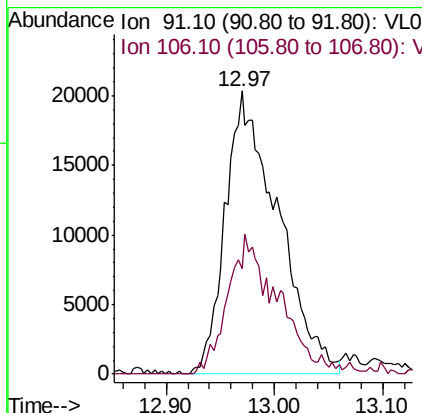
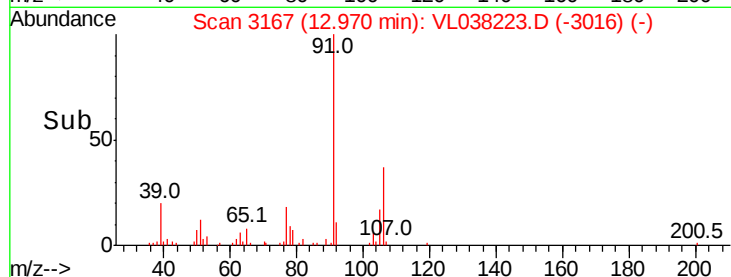
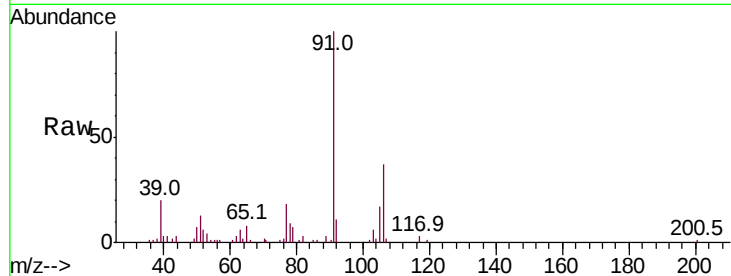


#59
m/p-Xylene
Concen: 0.327 ppbv m
RT: 12.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Dec 2021 21:38

Tot Ion:
Ion Ratio
91 100
106 48.

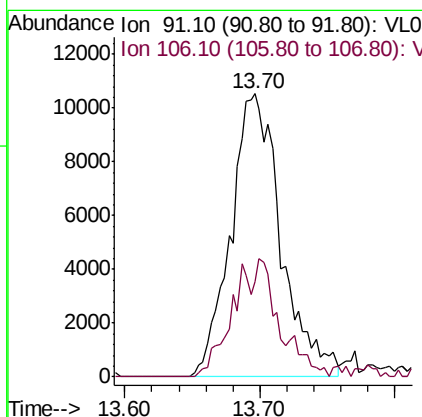
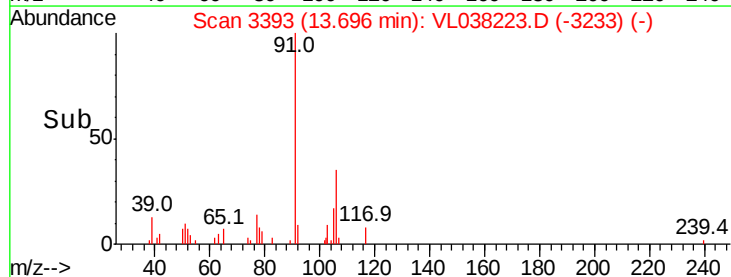
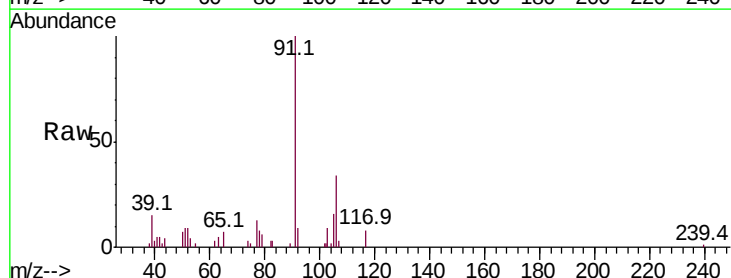
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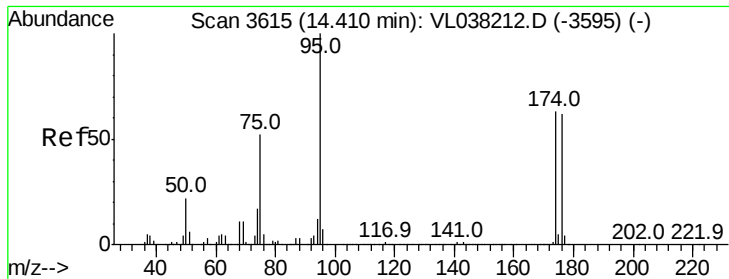
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#60
o-Xylene
Concen: 0.140 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL038223.D
Acq: 21 Dec 2021 21:38

Tgt Ion: 91 Resp: 27152
Ion Ratio Lower Upper
91 100
106 38.6 23.5 70.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.022 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 21:38

Tot Ion:

Ion Ratio

95 100

174 65.

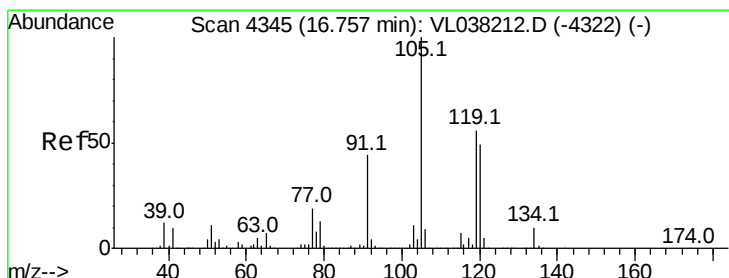
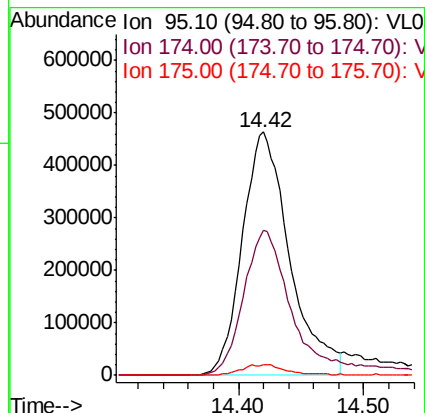
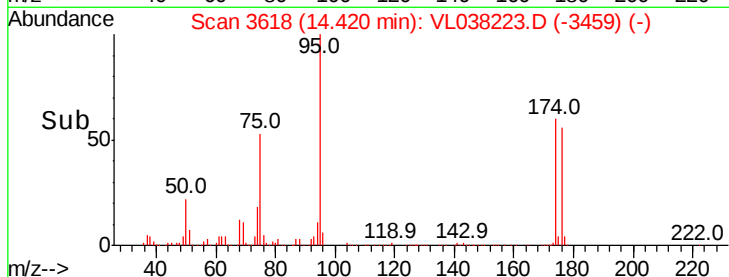
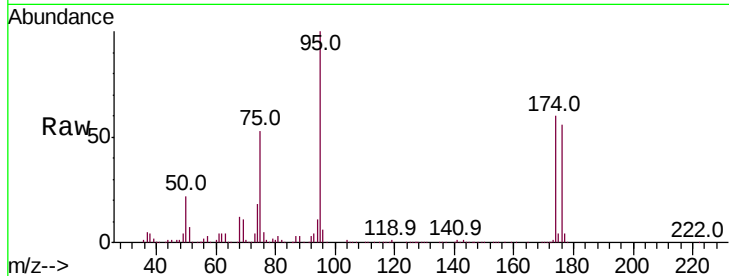
175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.107 ppbv m

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL038223.D

Acq: 21 Dec 2021 21:38

Tgt Ion:105 Resp: 22443

Ion Ratio Lower Upper

105 100

120 43.1 39.4 59.2

91 19.2 35.0 52.4#

77 24.9 15.6 23.4#

