

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038222.D
 Acq On : 21 Dec 2021 20:57
 Operator : SY/AP
 Sample : M5118-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 08:37:02 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	659428	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1886277	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1588736	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1300419	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	26194	0.211	ppbv	93
3) Chlorodifluoromethane	3.00	51	40948m	0.296	ppbv	
4) Chloromethane	3.16	50	21377	0.445	ppbv #	88
9) Propene	3.04	41	61352m	1.275	ppbv	
10) Heptane	8.13	43	13851m	0.113	ppbv	
11) Trichlorofluoromethane	3.96	101	26021	0.228	ppbv	98
13) Ethanol	3.62	45	357346	43.808	ppbv #	100
15) Acetone	3.86	43	358269	5.413	ppbv	90
19) Isopropyl Alcohol	3.99	45	254878	6.175	ppbv #	38
20) Methylene Chloride	4.36	84	519596	13.906	ppbv	97
26) Hexane	5.70	57	390114	4.336	ppbv #	45
34) 2-Butanone	5.26	43	28395	0.501	ppbv	96
35) Carbon Tetrachloride	7.03	117	7578m	0.065	ppbv	
36) Benzene	6.90	78	56990m	0.324	ppbv	
41) Tetrahydrofuran	6.08	42	6912m	0.166	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	56916	0.190	ppbv #	79
52) Tetrachloroethene	11.22	164	6608m	0.102	ppbv	
53) Toluene	9.81	91	143735	0.708	ppbv	99
58) Ethyl Benzene	12.71	91	26091m	0.106	ppbv	
59) m/p-Xylene	12.97	91	69897m	0.332	ppbv	
60) o-Xylene	13.70	91	25658m	0.131	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	22539m	0.107	ppbv	

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

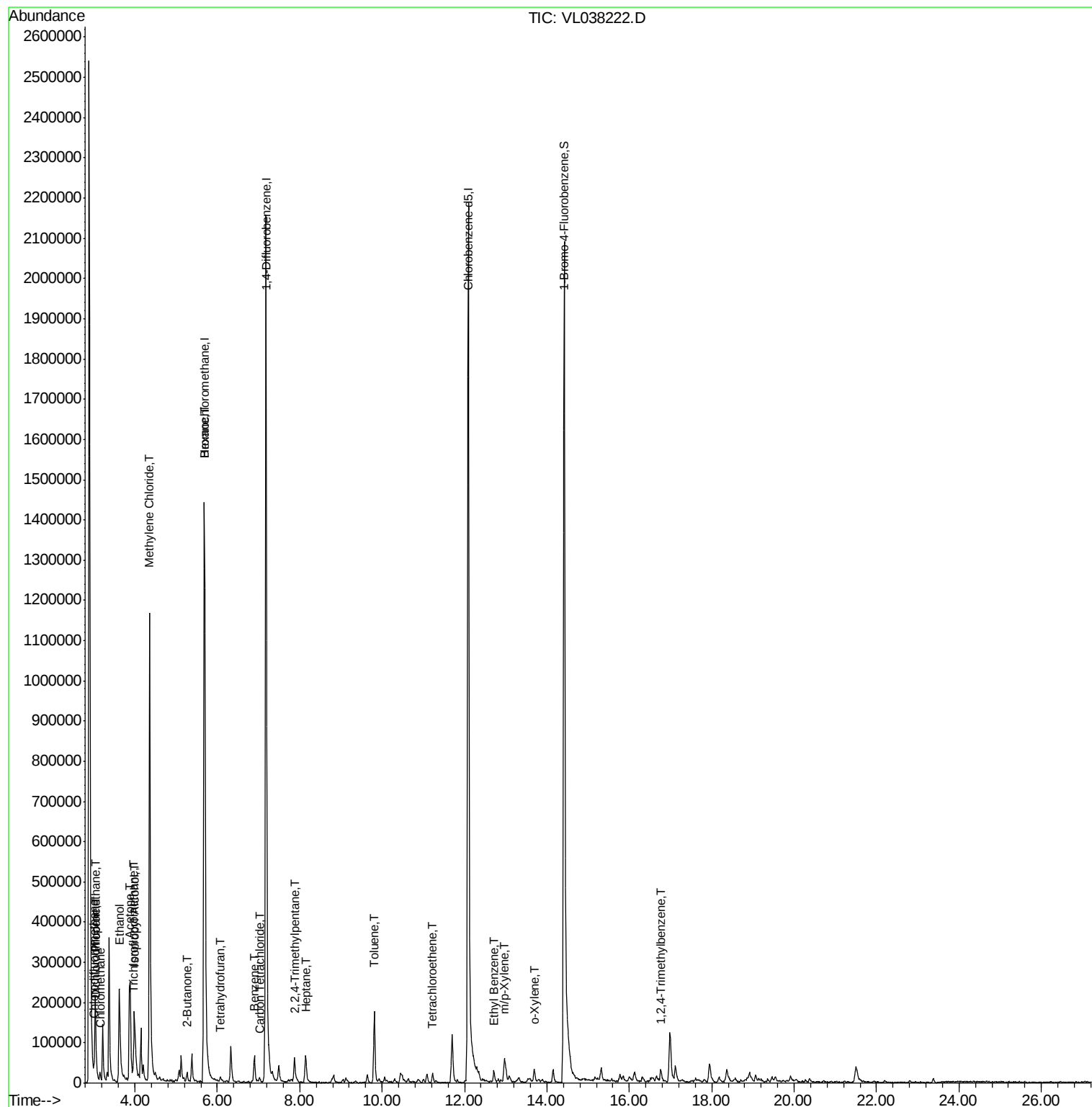
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122121\
Data File : VL038222.D
Acq On : 21 Dec 2021 20:57
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ALS Vial : 1 Sample Multiplier: 1

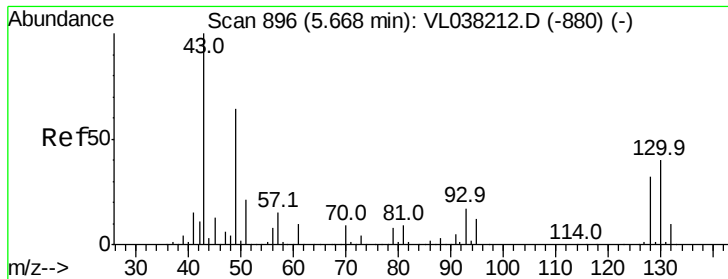
Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Dec 22 08:37:02 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL122121
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Supervised By :Mahesh Dadoda 12/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 20:57

Tot Ion:

Ion Ratio

49 100

128 49.

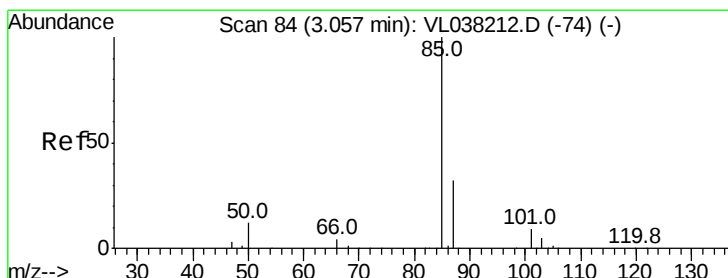
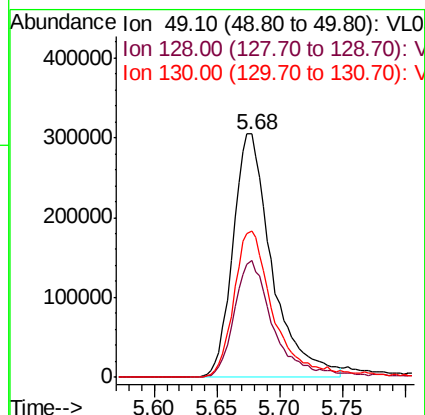
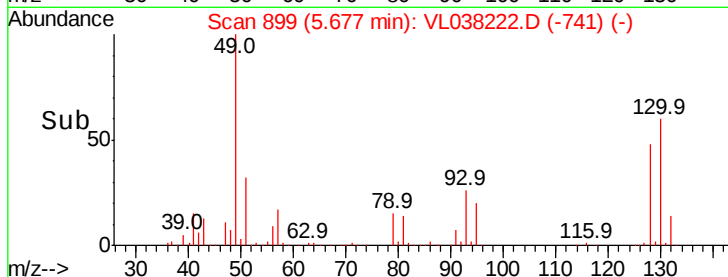
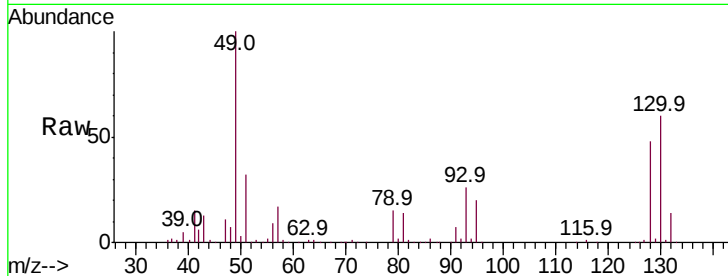
130 63.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#2

Dichlorodifluoromethane

Concen: 0.211 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL038222.D

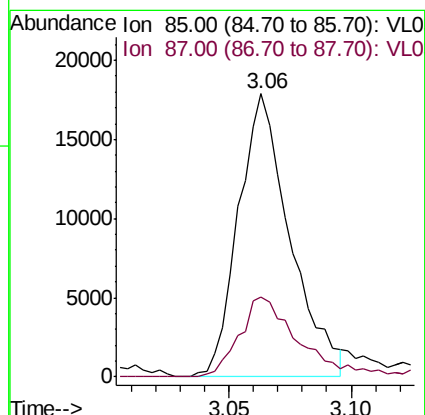
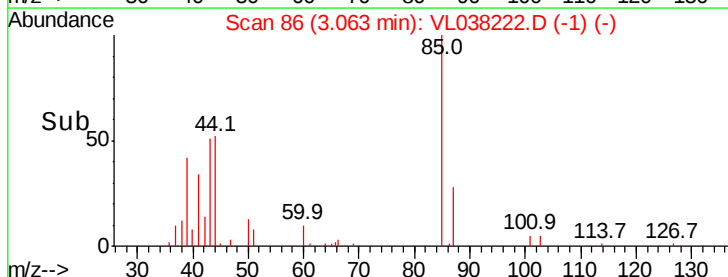
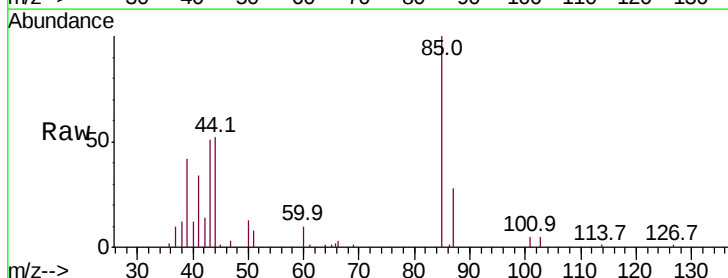
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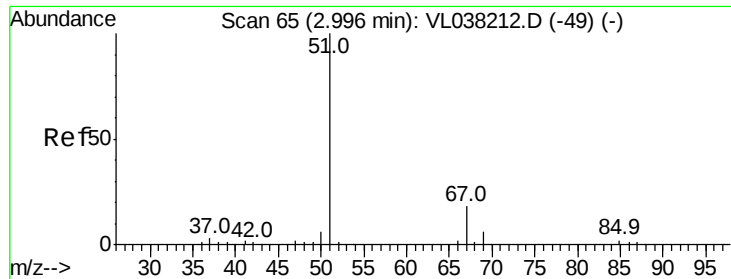
Tgt Ion: 85 Resp: 26194

Ion Ratio Lower Upper

85 100

87 28.1 25.4 38.2



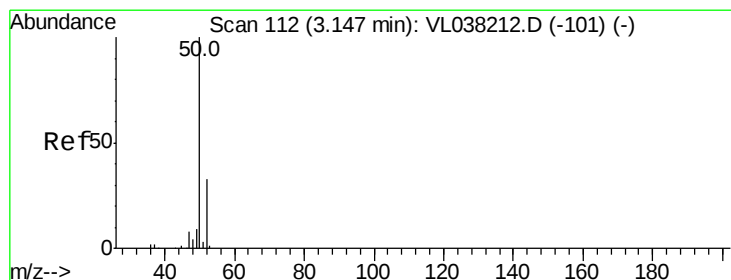
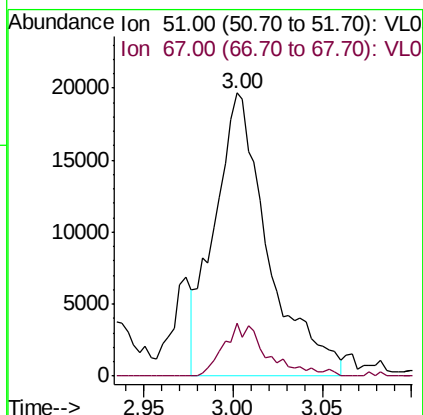
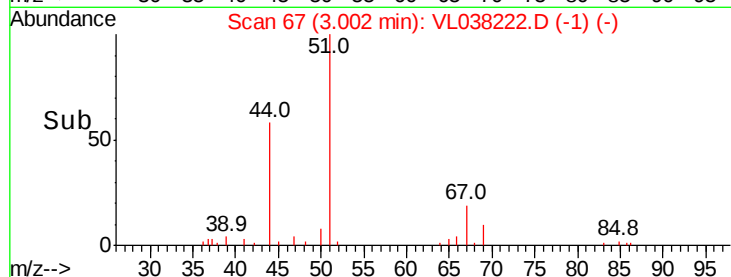
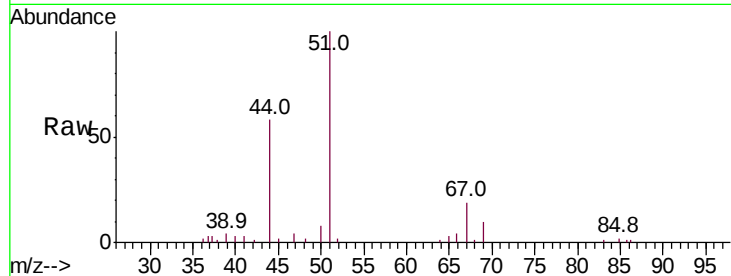


#3
 Chlorodifluoromethane
 Concen: 0.296 ppbv m
 RT: 3.00 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: IA-2
 Acq: 21 Dec 2021 20:57

Tot Ion:
 Ion Ratio
 51 100
 67 15.

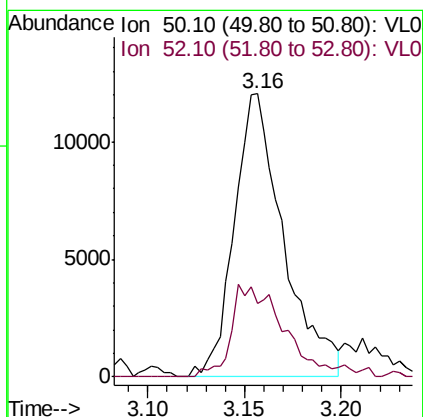
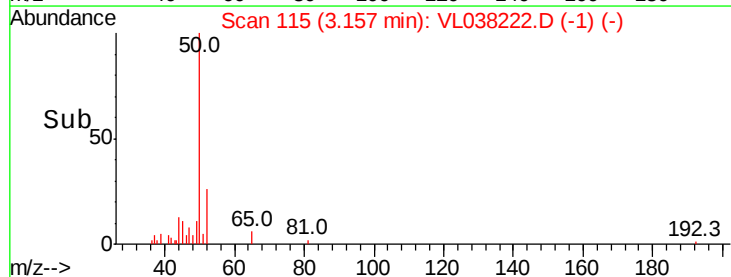
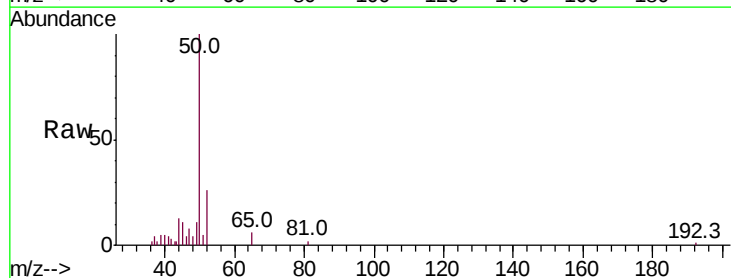
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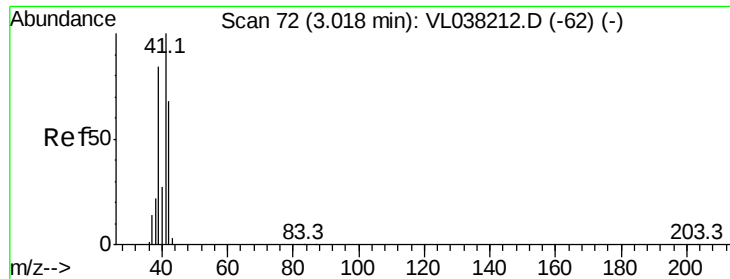
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#4
 Chloromethane
 Concen: 0.445 ppbv
 RT: 3.16 min Scan# 115
 Delta R.T. 0.01 min
 Lab File: VL038222.D
 Acq: 21 Dec 2021 20:57

Tgt Ion: 50 Resp: 21377
 Ion Ratio Lower Upper
 50 100
 52 25.9 26.2 39.2#





#9

Propene

Concen: 1.275 ppbv m

RT: 3.04

Delta R.T.

Lab File:

Acq: 21 Dec 2021 20:57

Instrument :

MSVOA_1

ClientSampleId :

IA-2

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

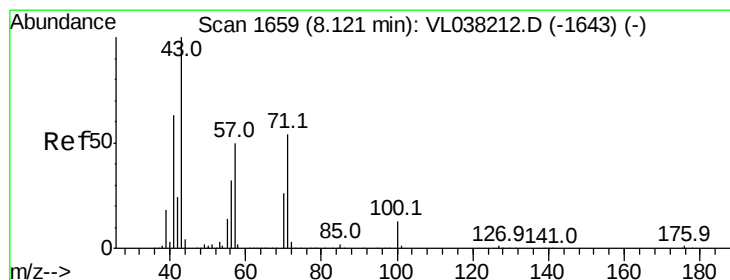
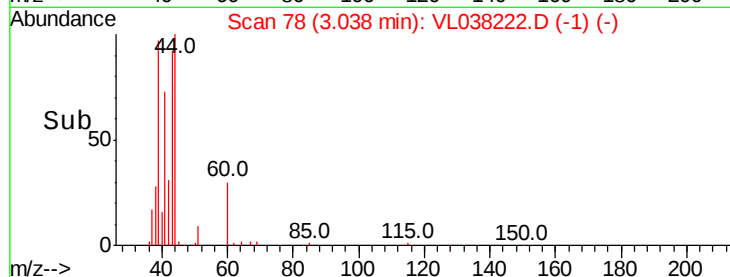
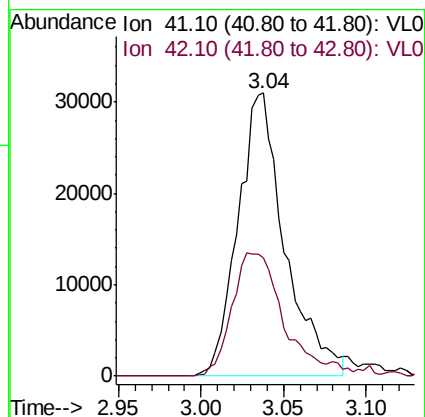
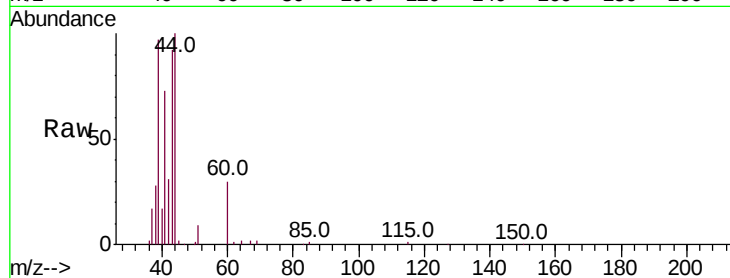
Supervised By :Mahesh Dadoda 12/29/2021

Tot Ion:

Ion Ratio

41 100

42 53.



#10

Heptane

Concen: 0.113 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VL038222.D

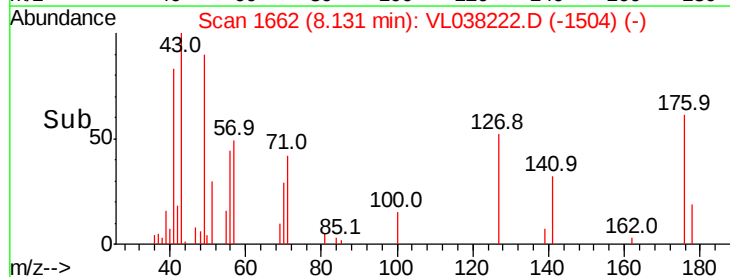
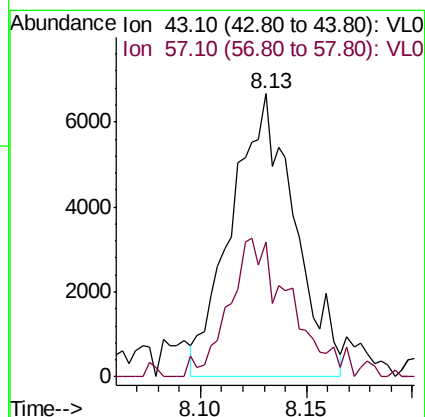
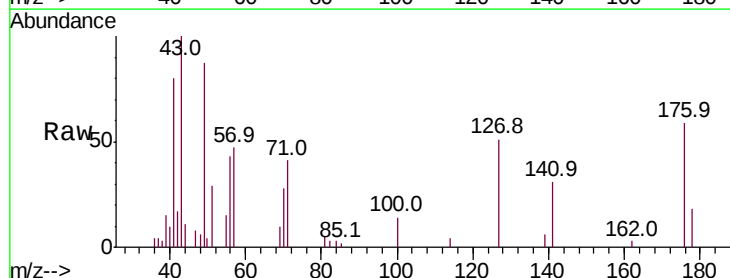
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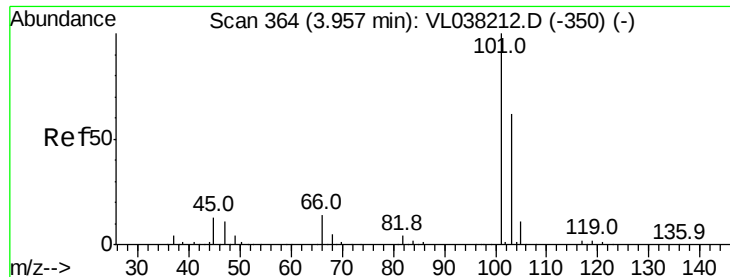
Tgt Ion: 43 Resp: 13851

Ion Ratio Lower Upper

43 100

57 0.0 40.3 60.5#



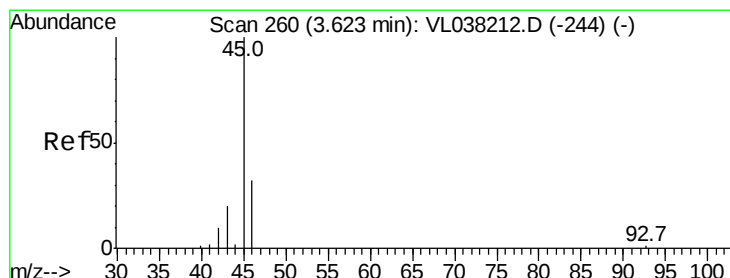
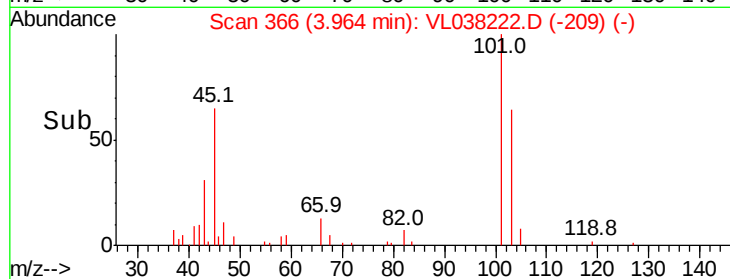
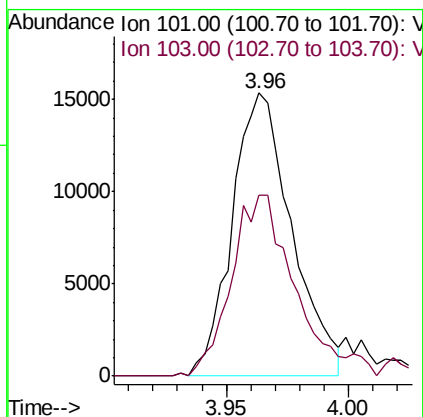
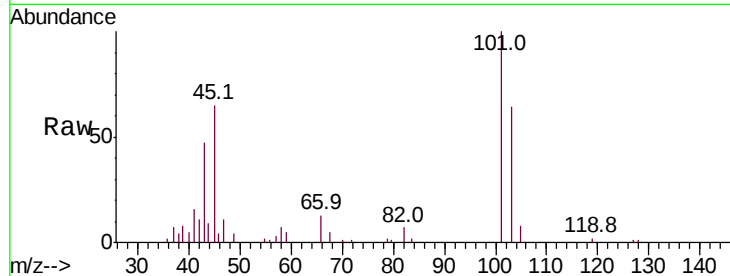


#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 21 Dec 2021 20:57

Tot Ion: 1
 Ion Ratio
 101 100
 103 63.

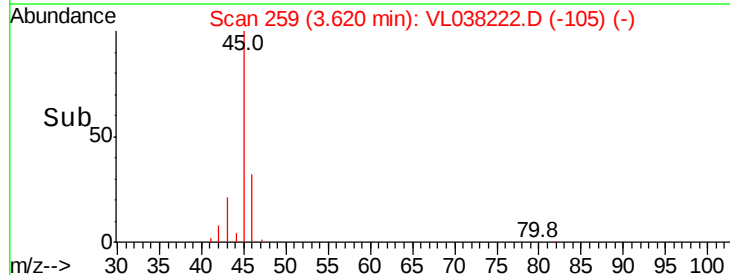
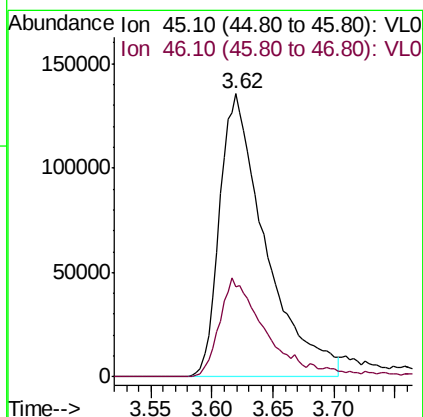
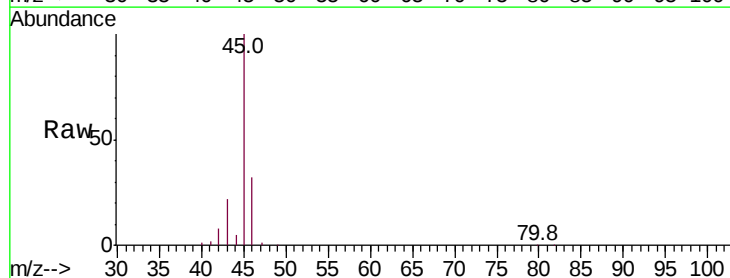
Manual Integrations
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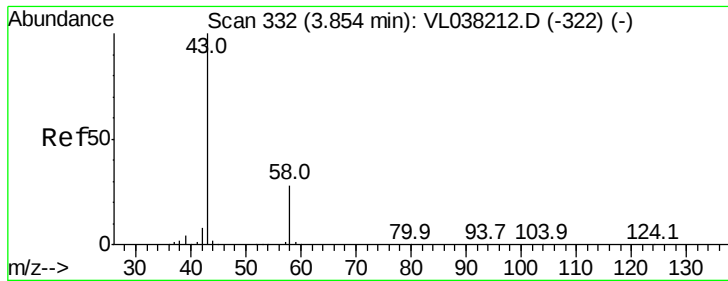
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#13
 Ethanol
 Concen: 43.808 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. -0.00 min
 Lab File: VL038222.D
 Acq: 21 Dec 2021 20:57

Tgt Ion: 45 Resp: 357346
 Ion Ratio Lower Upper
 45 100
 46 36.4 0.0 0.0#



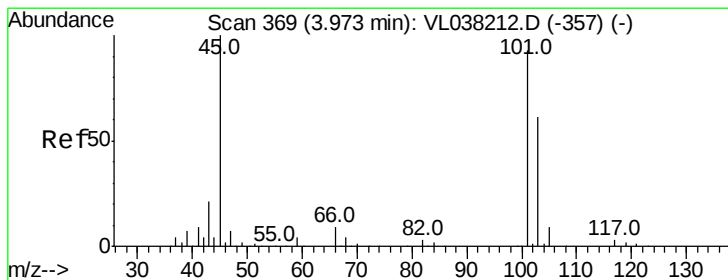
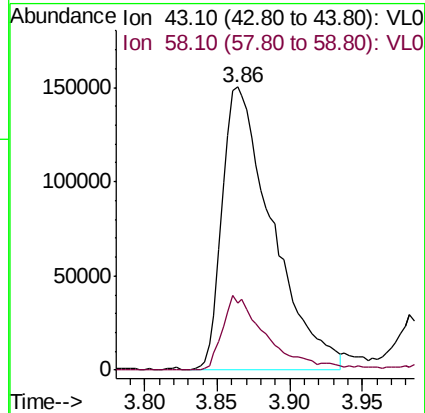
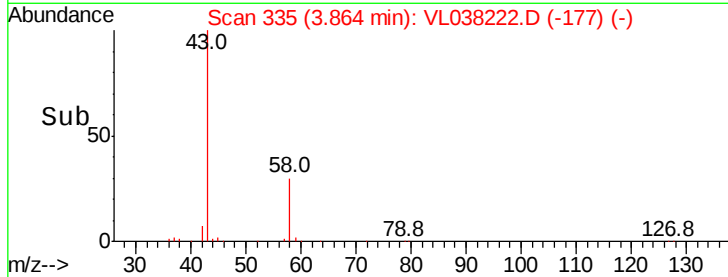
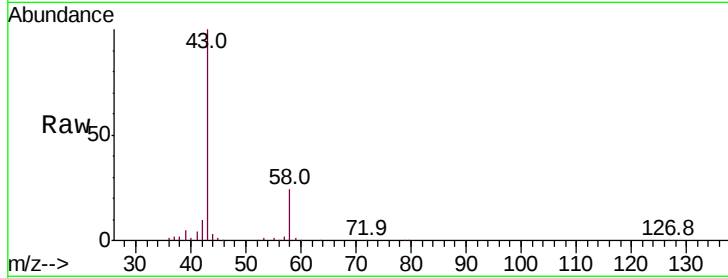


#15
Acetone
Concen: 5.413 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Dec 2021 20:57

Tot Ion:
Ion Ratio
43 100
58 24.

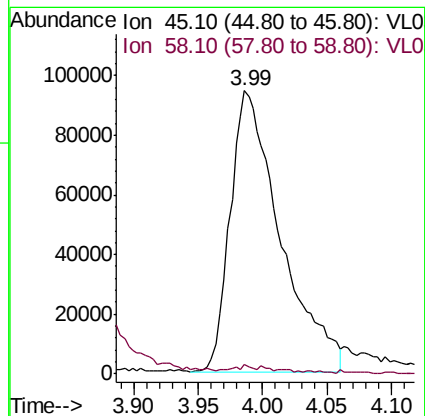
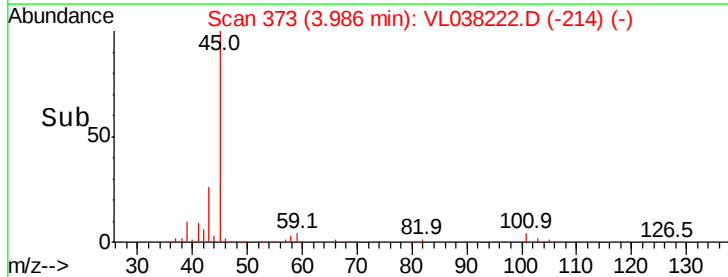
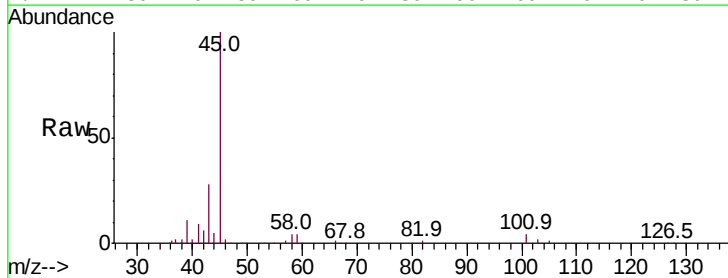
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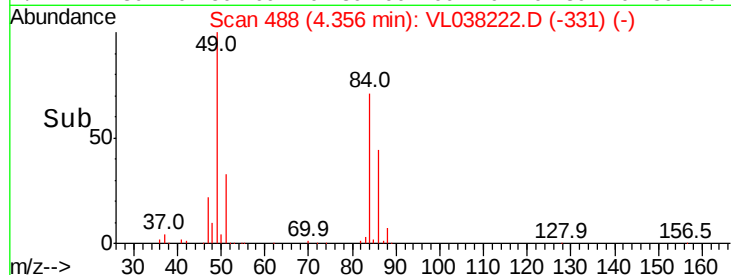
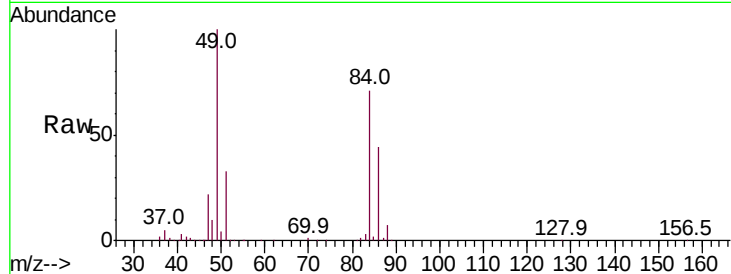
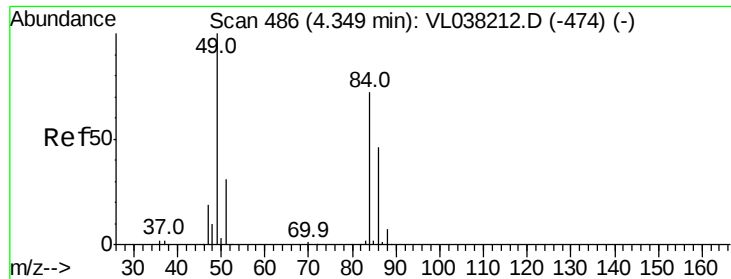
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#19
Isopropyl Alcohol
Concen: 6.175 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.01 min
Lab File: VL038222.D
Acq: 21 Dec 2021 20:57

Tgt Ion: 45 Resp: 254878
Ion Ratio Lower Upper
45 100
58 2.2 32.4 48.6#



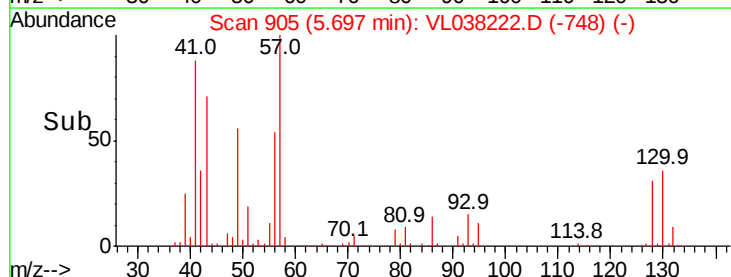
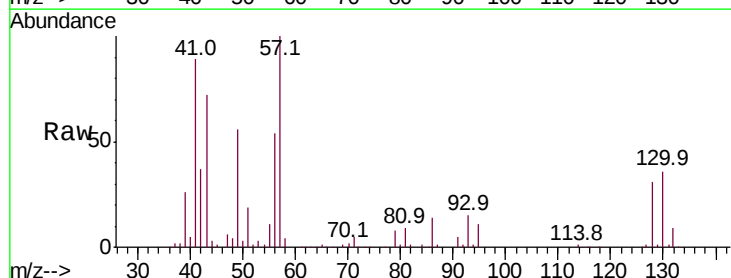
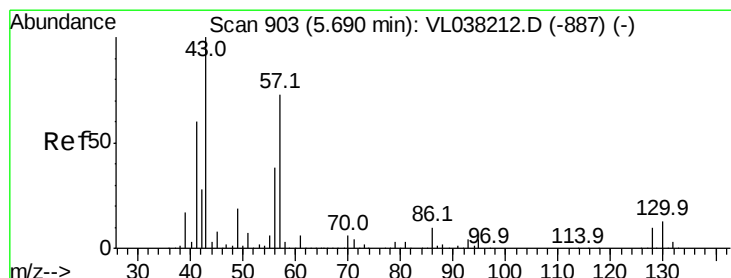
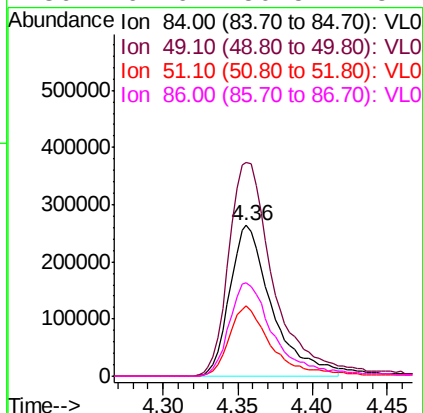


#20
Methvlene Chloride
Concen: 13.906 ppbv
RT: 4.36
Instrument : MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 21 Dec 2021 20:57

Tot Ion:
Ion Ratio
84 100
49 141.
51 46.
86 61.6 50.5 75.7

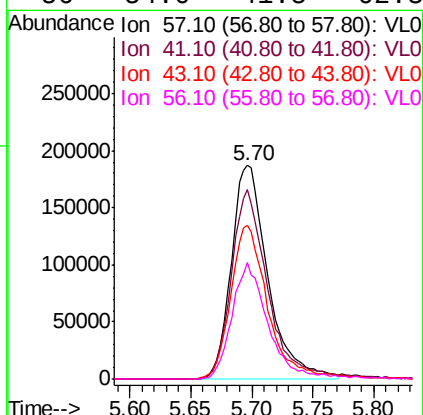
Manual Integrations
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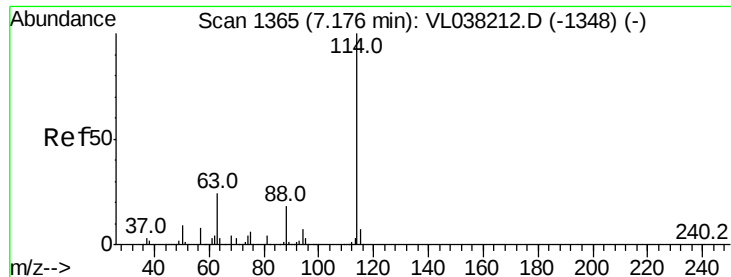
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#26
Hexane
Concen: 4.336 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL038222.D
Acq: 21 Dec 2021 20:57

Tgt Ion: 57 Resp: 390114
Ion Ratio Lower Upper
57 100
41 89.2 69.0 103.6
43 74.0 171.2 256.8#
56 54.0 41.5 62.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 20:57

Tot Ion:1

Ion Rati

114 100

63 25.

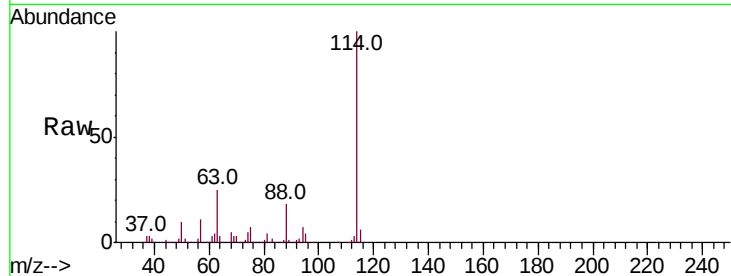
88 18.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

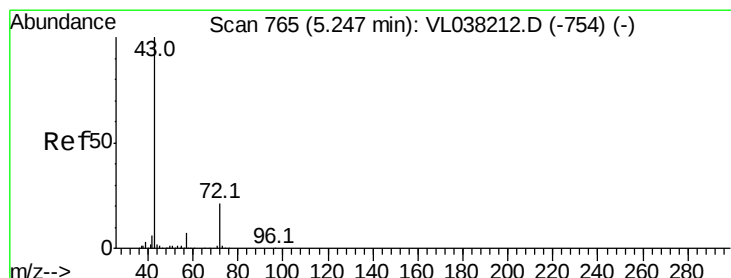
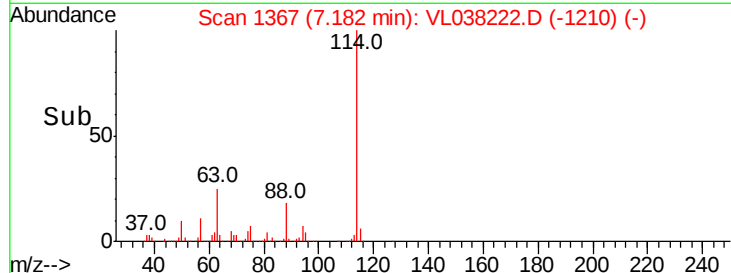
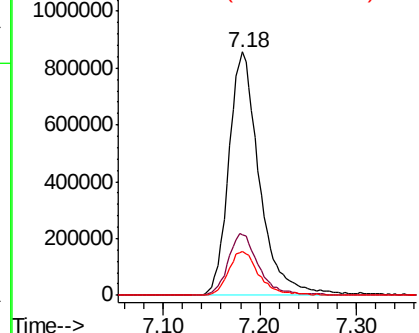
Supervised By :Mahesh Dadoda 12/29/2021



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



#34

2-Butanone

Concen: 0.501 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL038222.D

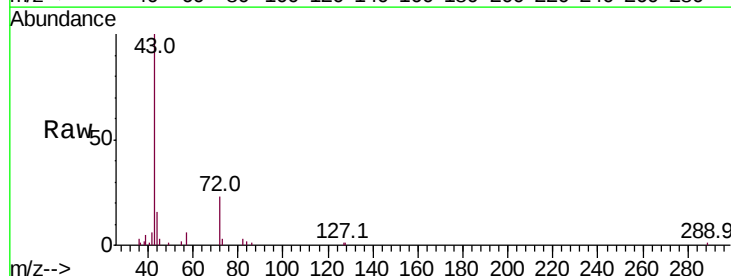
Acq: 21 Dec 2021 20:57

Tgt Ion: 43 Resp: 28395

Ion Ratio Lower Upper

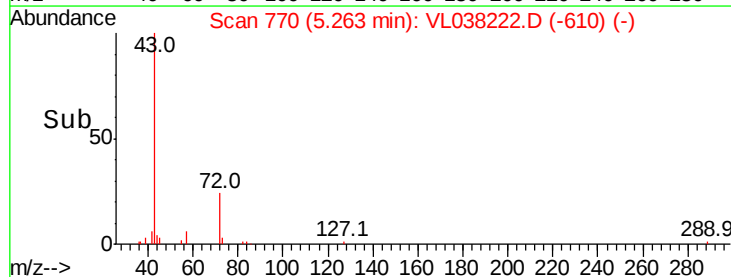
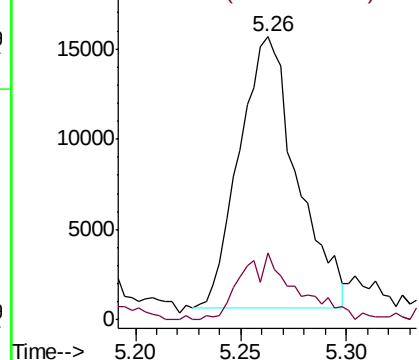
43 100

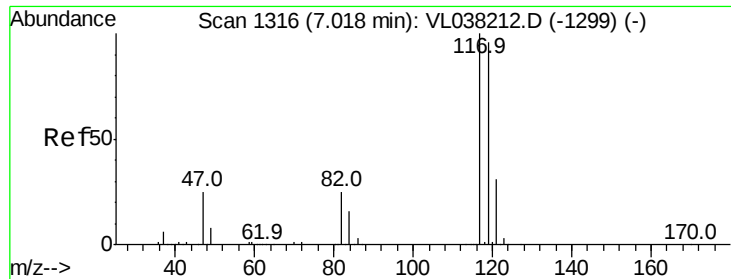
72 24.9 18.3 27.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 20:57

Tot Ion:1

Ion Rati

117 100

119 96.

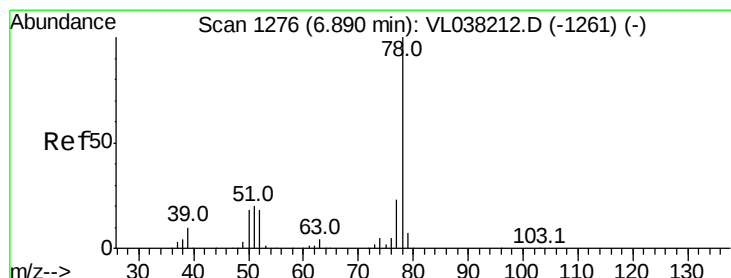
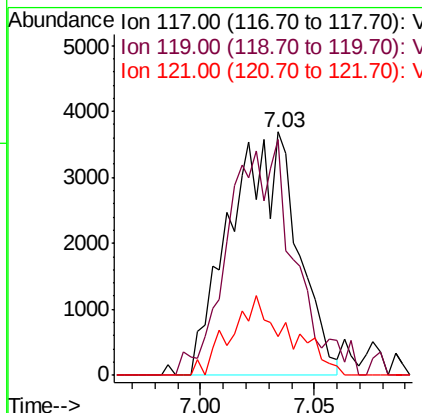
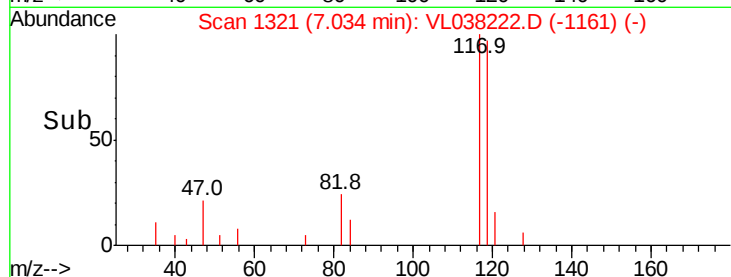
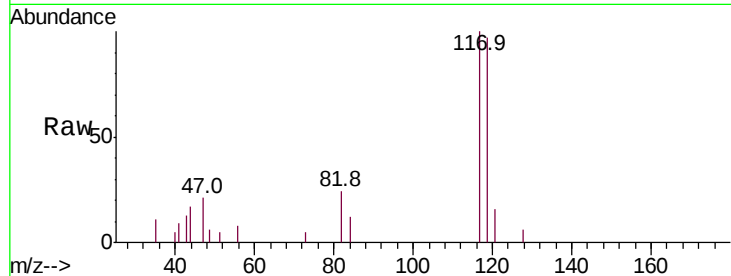
121 15.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#36

Benzene

Concen: 0.324 ppbv m

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL038222.D

Acq: 21 Dec 2021 20:57

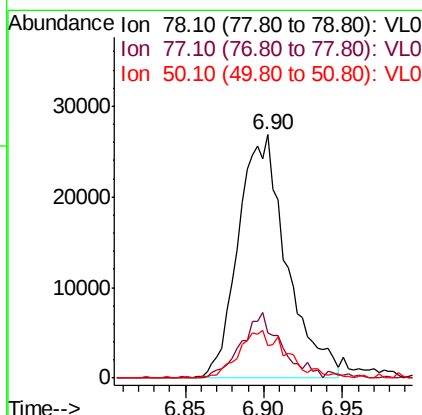
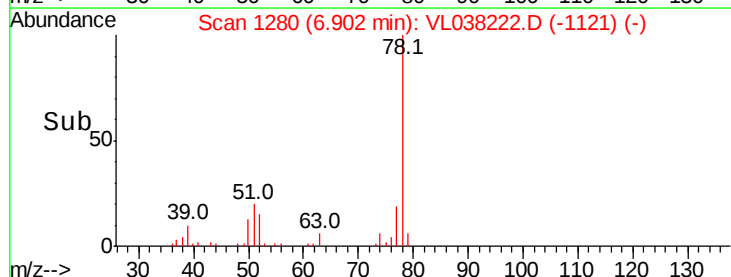
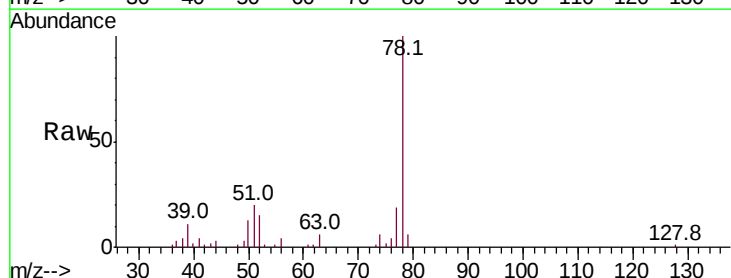
Tgt Ion: 78 Resp: 56990

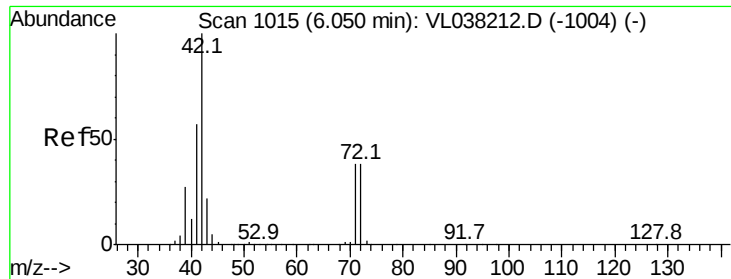
Ion Ratio Lower Upper

78 100

77 18.8 18.2 27.4

50 13.4 14.3 21.5#





#41

Tetrahydrofuran

Concen: 0.166 ppbv m

RT: 6.08 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 20:57

Tot Ion:

Ion Ratio

42 100

72 36.

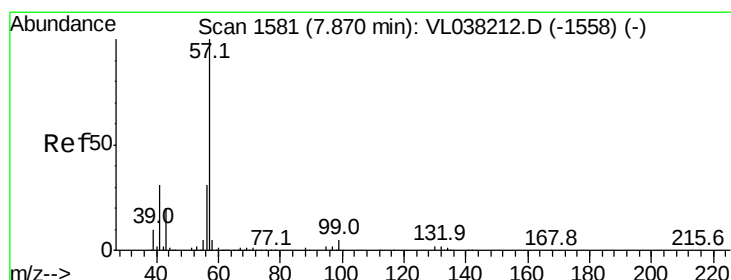
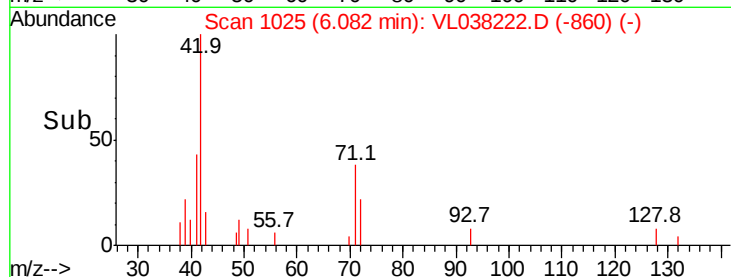
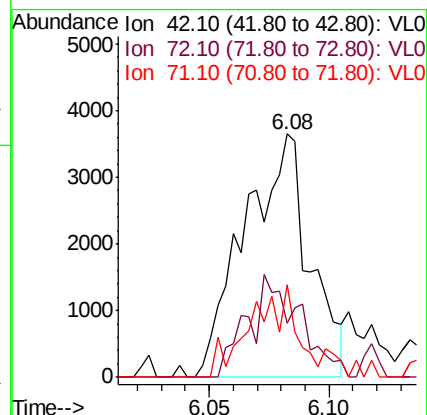
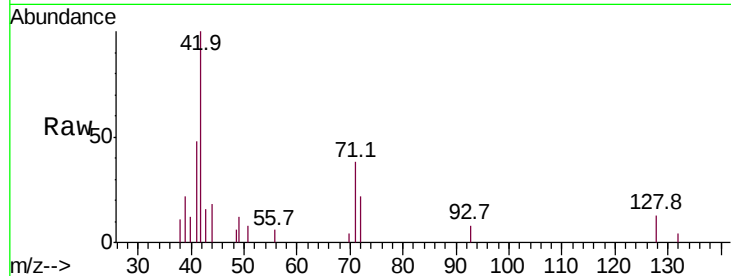
71 0.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#44

2,2,4-Trimethylpentane

Concen: 0.190 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VL038222.D

Acq: 21 Dec 2021 20:57

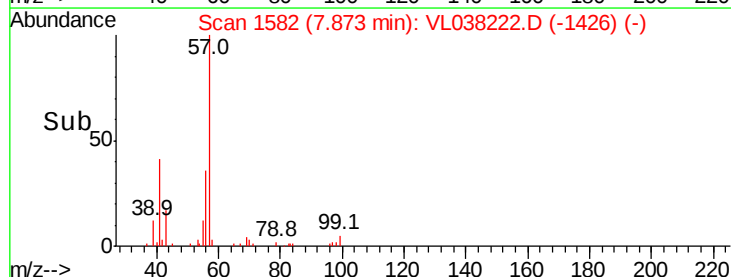
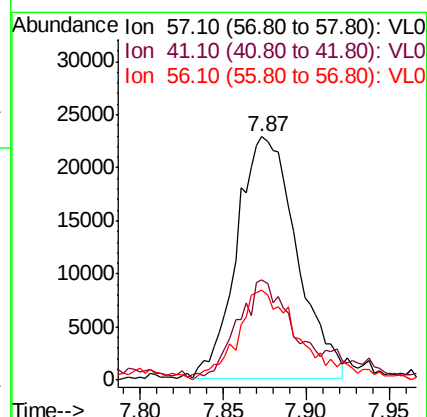
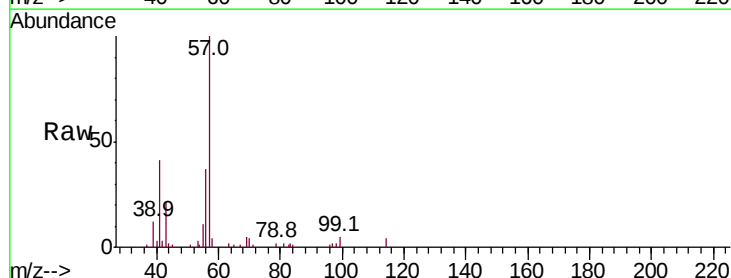
Tgt Ion: 57 Resp: 56916

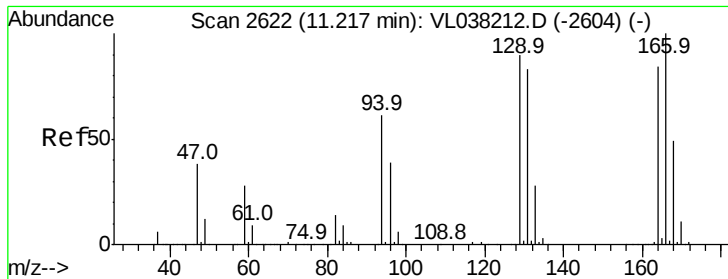
Ion Ratio Lower Upper

57 100

41 44.6 24.9 37.3#

56 40.6 24.8 37.2#





#52

Tetrachloroethene

Concen: 0.102 ppbv m

RT: 11.22 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 20:57

Tot Ion:1

Ion Rati

164 100

166 107.

129 67.

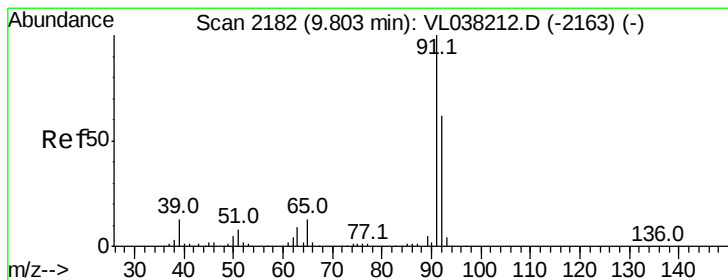
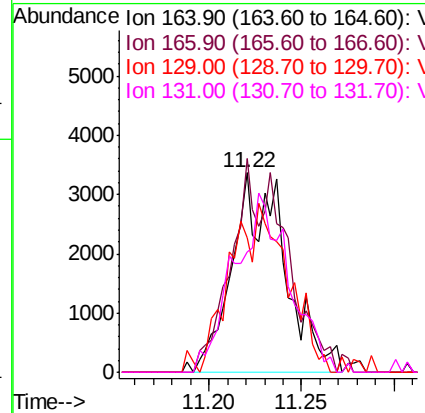
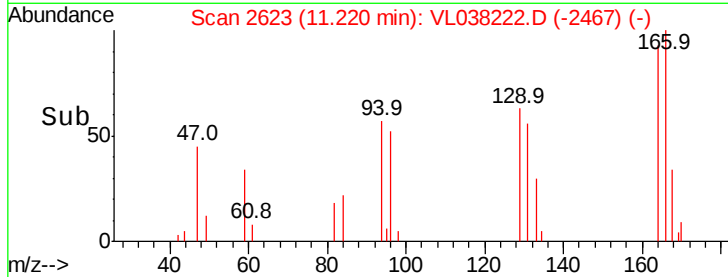
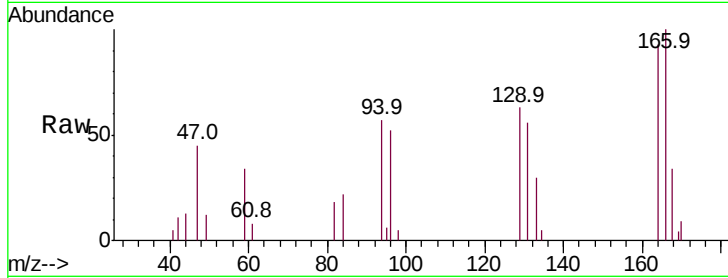
131 60.3 79.3 118.9#

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#53

Toluene

Concen: 0.708 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL038222.D

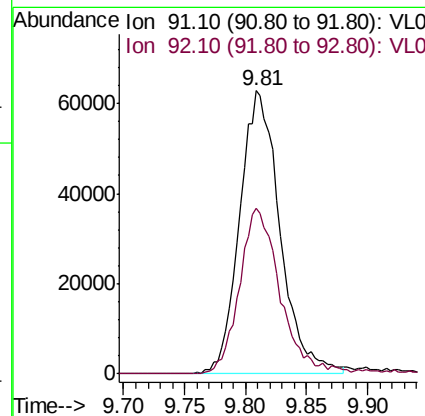
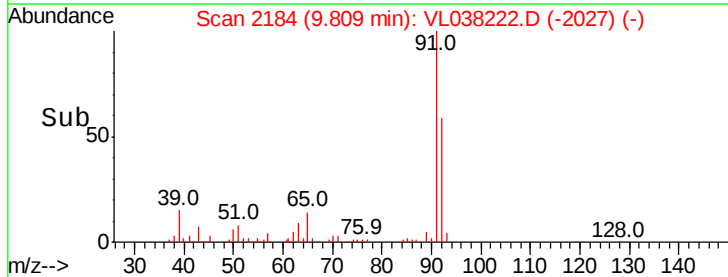
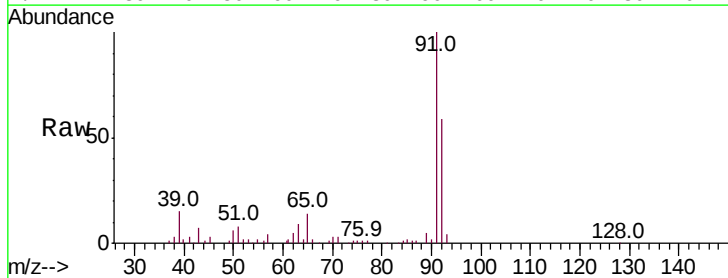
Acq: 21 Dec 2021 20:57

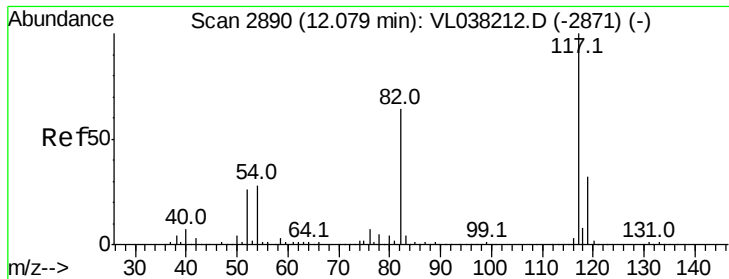
Tgt Ion: 91 Resp: 143735

Ion Ratio Lower Upper

91 100

92 60.2 48.9 73.3



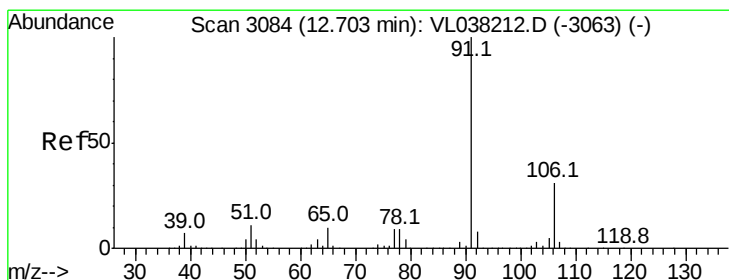
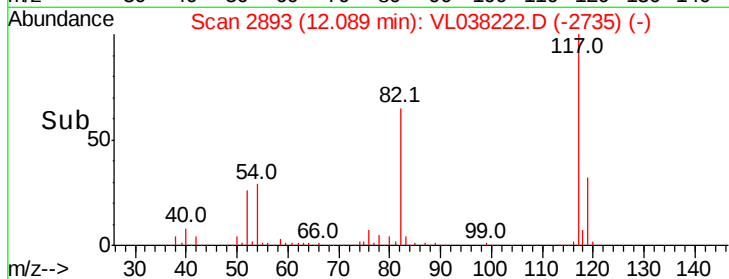
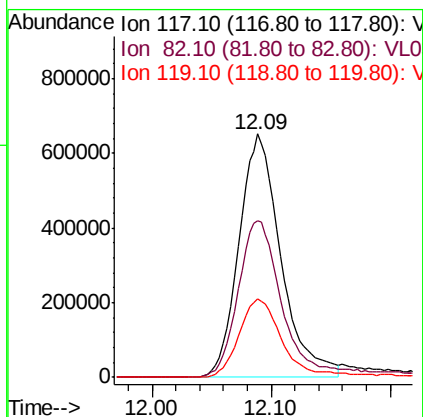
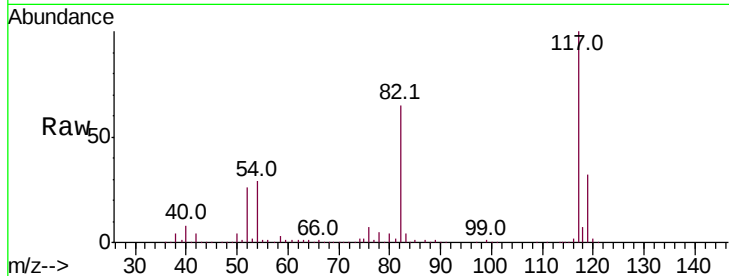


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 21 Dec 2021 20:57

Tot Ion: 1
Ion Ratio
117 100
82 73.
119 35.

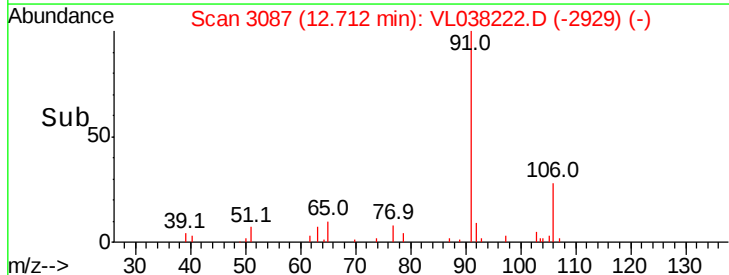
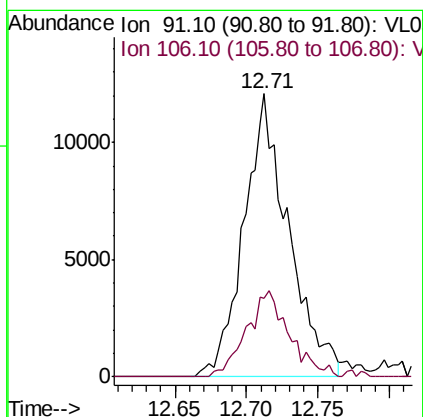
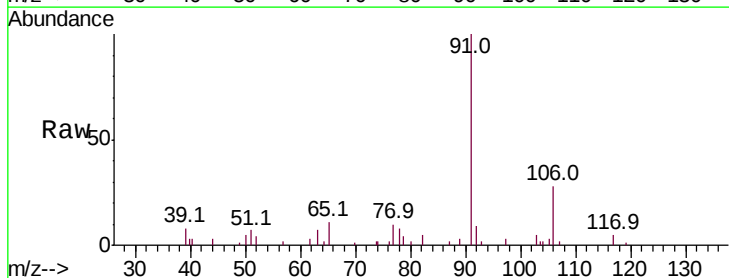
Manual Integrations
APPROVED

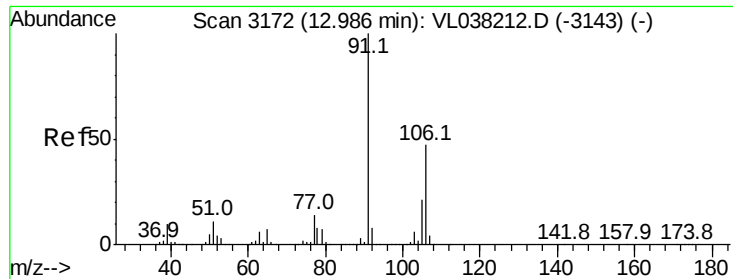
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#58
Ethyl Benzene
Concen: 0.106 ppbv m
RT: 12.71 min Scan# 3087
Delta R.T. 0.01 min
Lab File: VL038222.D
Acq: 21 Dec 2021 20:57

Tgt Ion: 91 Resp: 26091
Ion Ratio Lower Upper
91 100
106 27.7 25.0 37.4



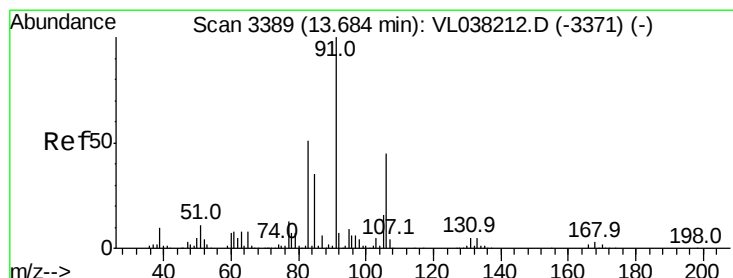
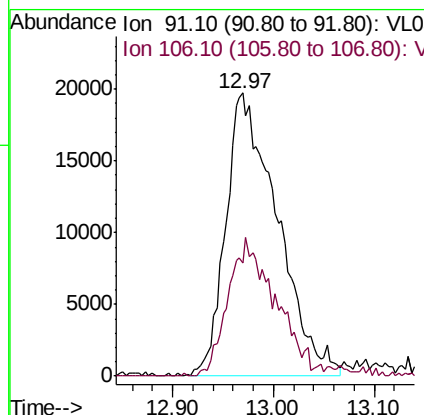
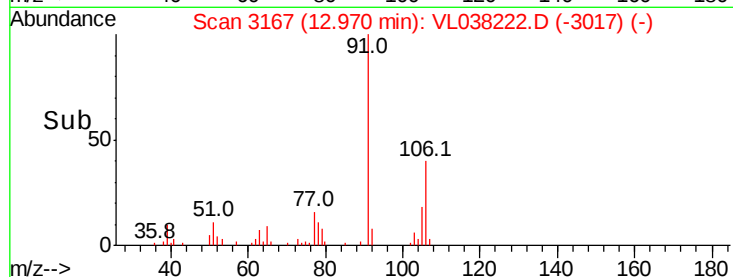
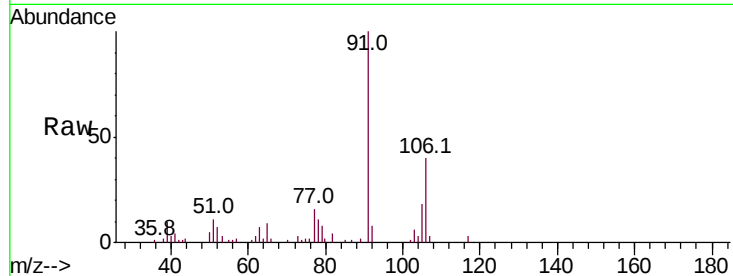


#59
m/p-Xylene
Concen: 0.332 ppbv m
RT: 12.97 min
Delta R.T. 0.02 min
Lab File: VL038212.D
Acq: 21 Dec 2021 20:57

Tot Ion:
Ion Ratio
91 100
106 0.

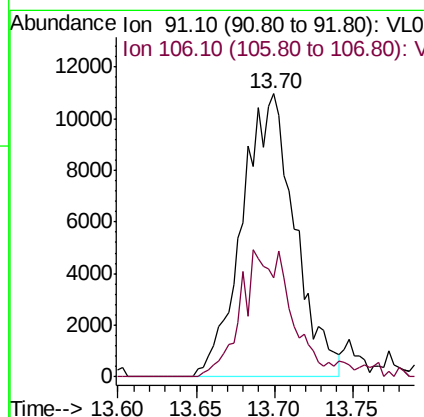
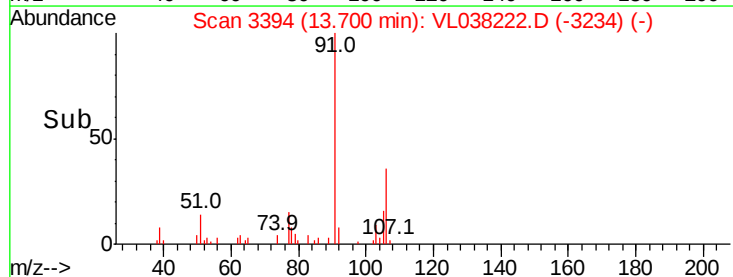
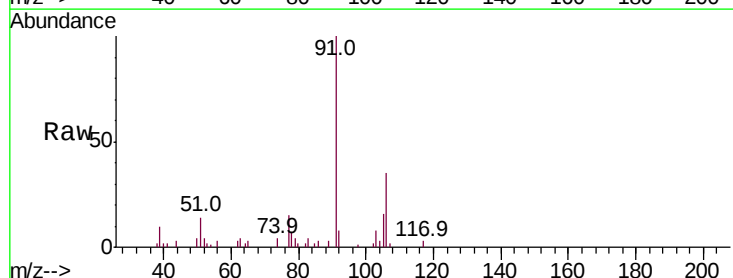
Manual Integrations
APPROVED

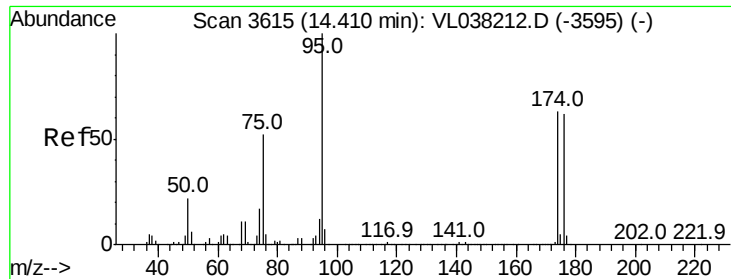
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#60
o-Xylene
Concen: 0.131 ppbv m
RT: 13.70 min Scan# 3394
Delta R.T. 0.02 min
Lab File: VL038222.D
Acq: 21 Dec 2021 20:57

Tgt Ion: 91 Resp: 25658
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#



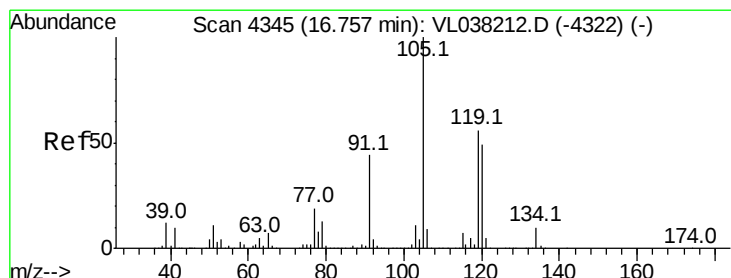
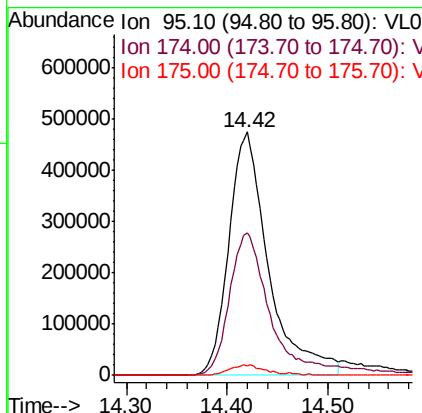
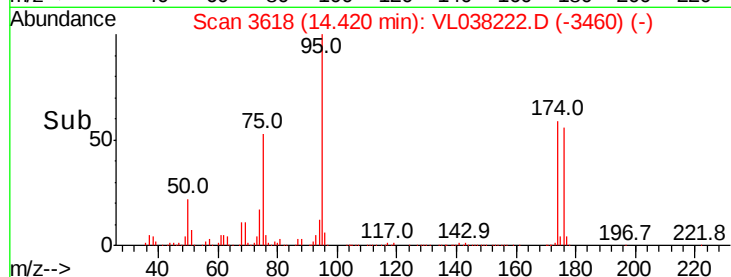
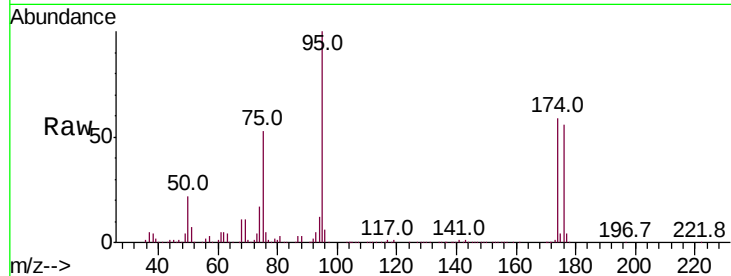


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.622 ppbv
 RT: 14.42 min
 Delta R.T.: 0.01 min
 Lab File: VL038212.D
 Acq: 21 Dec 2021 20:57

Tot Ion:
 Ion Ratio
 95 100
 174 63.1
 175 4.1

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: VL038222.D
 Acq: 21 Dec 2021 20:57

Tgt Ion:105 Resp: 22539
 Ion Ratio Lower Upper
 105 100
 120 35.4 39.4 59.2#
 91 9.2 35.0 52.4#
 77 11.8 15.6 23.4#

