

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038227.D
 Acq On : 22 Dec 2021 00:16
 Operator : SY/AP
 Sample : M5118-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 08:49:03 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	640835	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	1787377	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	1525458	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1244915	10.59	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	26368	0.218 ppbv	99
3) Chlorodifluoromethane	3.01	51	48927	0.363 ppbv	92
4) Chloromethane	3.16	50	22748m	0.487 ppbv	
9) Propene	3.04	41	52489	1.123 ppbv #	80
10) Heptane	8.14	43	14031	0.118 ppbv	98
11) Trichlorofluoromethane	3.97	101	23643	0.213 ppbv	96
13) Ethanol	3.63	45	126895	16.008 ppbv #	100
15) Acetone	3.87	43	304358	4.732 ppbv	93
19) Isopropyl Alcohol	4.01	45	46837	1.168 ppbv #	35
20) Methylene Chloride	4.37	84	987116	27.185 ppbv	96
26) Hexane	5.70	57	406479	4.649 ppbv #	45
34) 2-Butanone	5.27	43	28398m	0.529 ppbv	
35) Carbon Tetrachloride	7.04	117	8286m	0.075 ppbv	
36) Benzene	6.91	78	56405	0.338 ppbv	97
44) 2,2,4-Trimethylpentane	7.88	57	56038m	0.198 ppbv	
52) Tetrachloroethene	11.24	164	7124m	0.116 ppbv	
53) Toluene	9.82	91	112361	0.584 ppbv	100
59) m/p-Xylene	12.98	91	47335m	0.234 ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	27639m	0.136 ppbv	

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

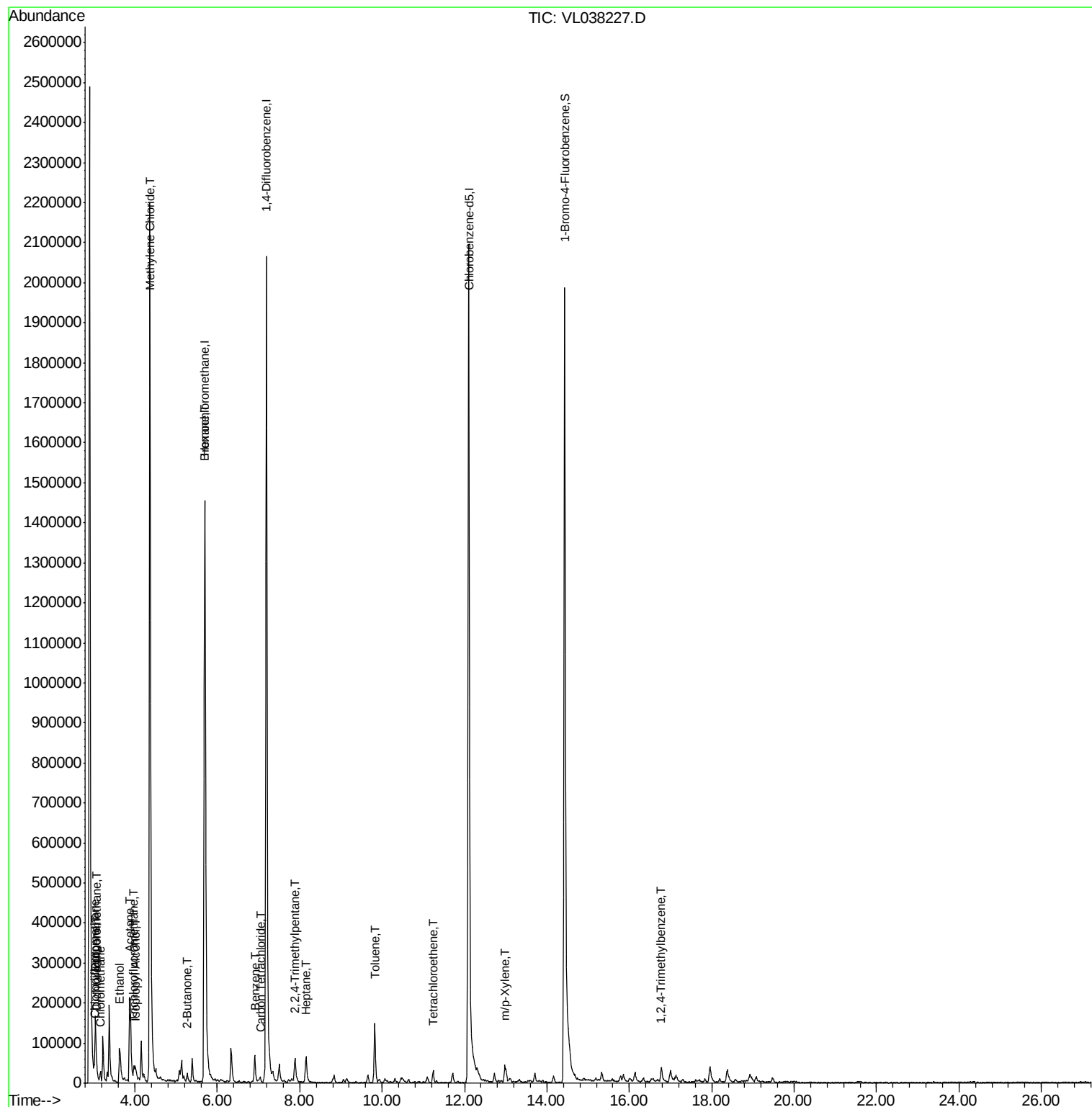
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
Data File : VL038227.D
Acq On : 22 Dec 2021 00:16
Operator : SY/AP
Sample : M5118-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

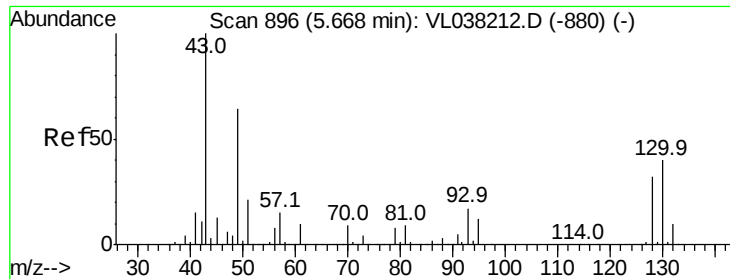
Instrument :
MSVOA_L
ClientSampleId :
OA-1

Quant Time: Dec 22 08:49:03 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

Acq: 22 Dec 2021 00:10

Tot Ion:

Ion Ratio

49 100

128 48.

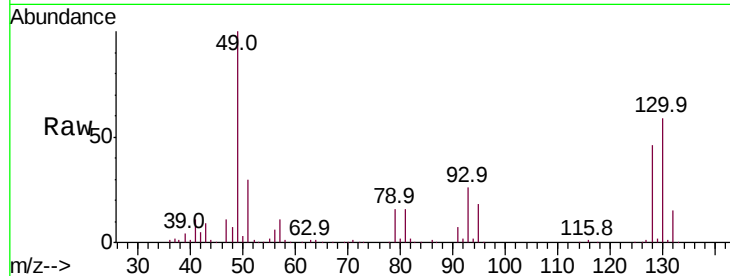
130 62.

Manual Integrations

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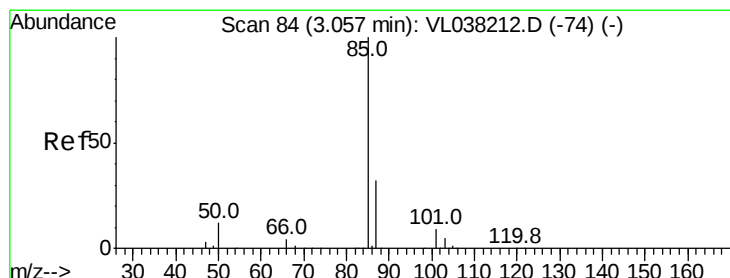
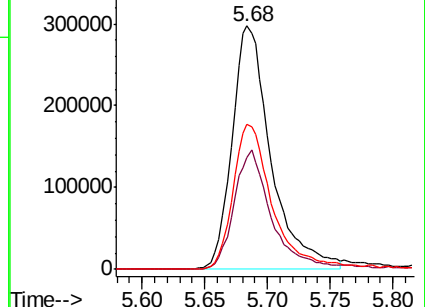
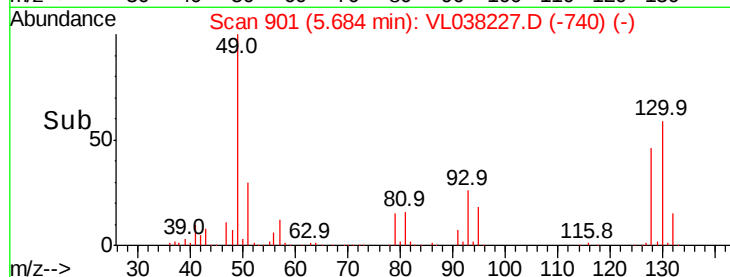
Supervised By :Mahesh Dadoda 12/29/2021



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: 0.218 ppbv

RT: 3.07 min Scan# 89

Delta R.T. 0.02 min

Lab File: VL038227.D

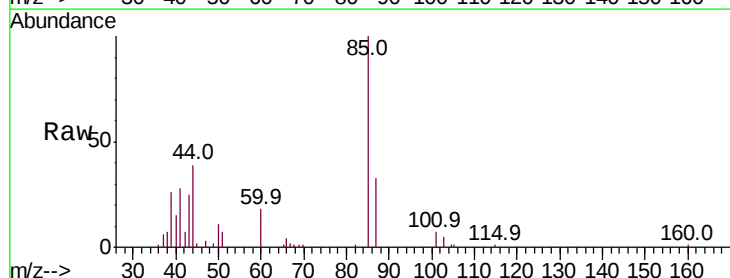
Acq: 22 Dec 2021 00:16

Tgt Ion: 85 Resp: 26368

Ion Ratio Lower Upper

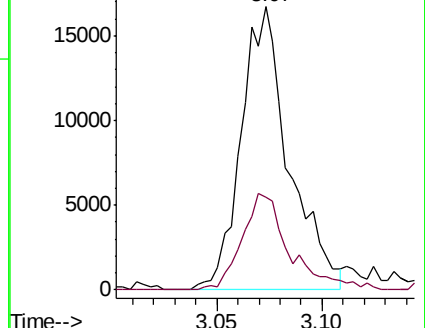
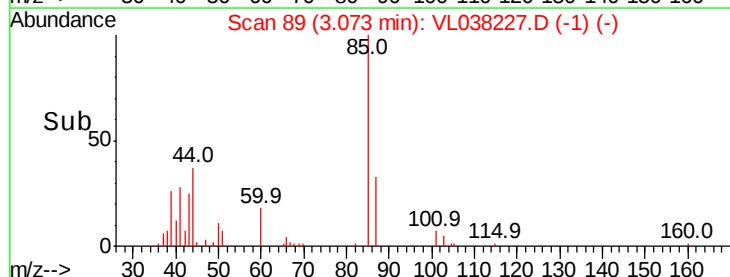
85 100

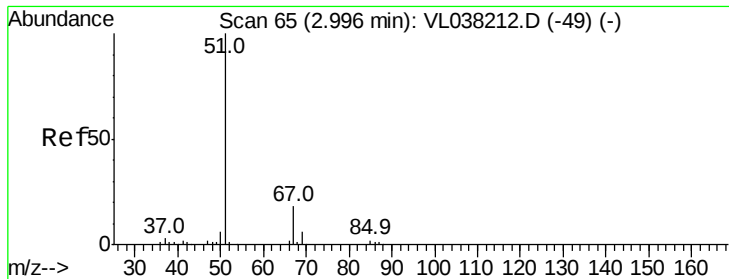
87 32.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.363 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Dec 2021 00:10

Tot Ion:

Ion Ratio

51 100

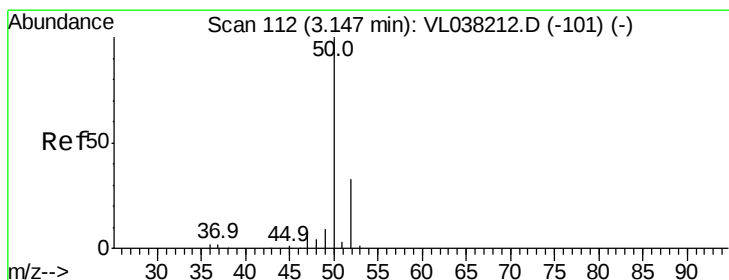
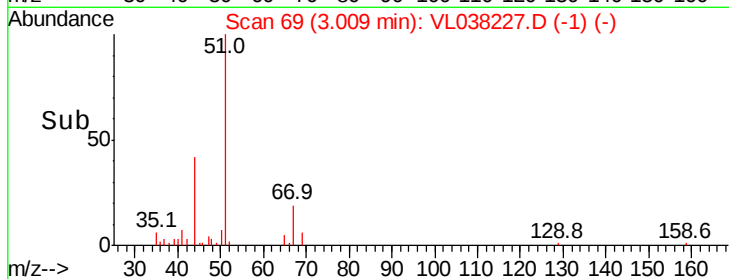
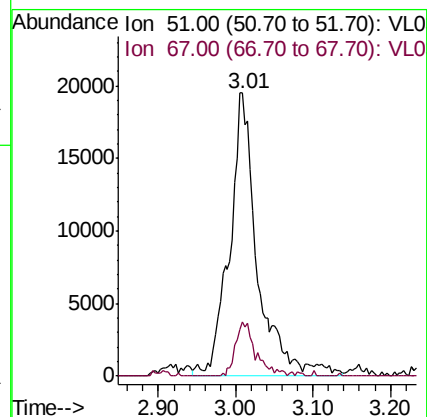
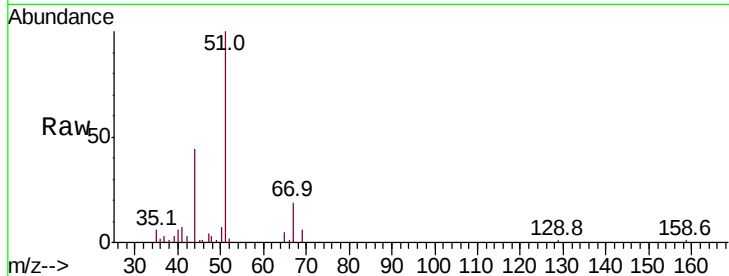
67 14.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#4

Chloromethane

Concen: 0.487 ppbv m

RT: 3.16 min Scan# 116

Delta R.T. 0.01 min

Lab File: VL038227.D

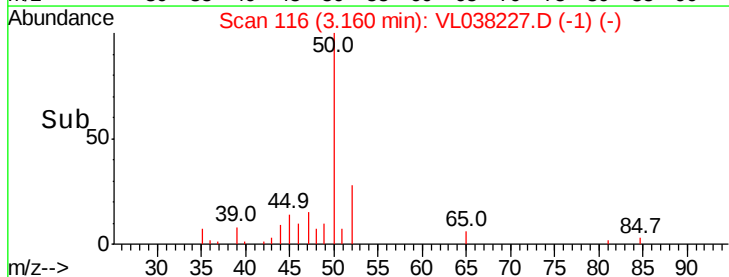
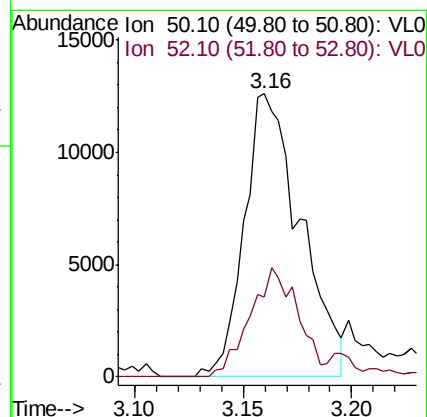
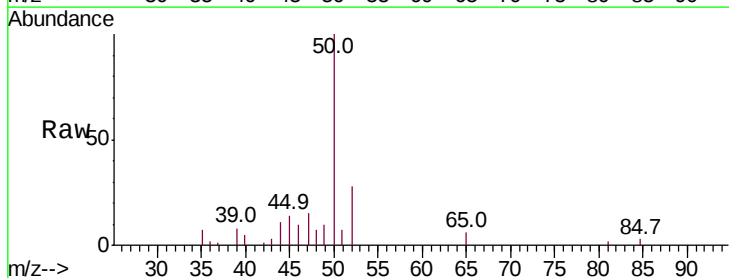
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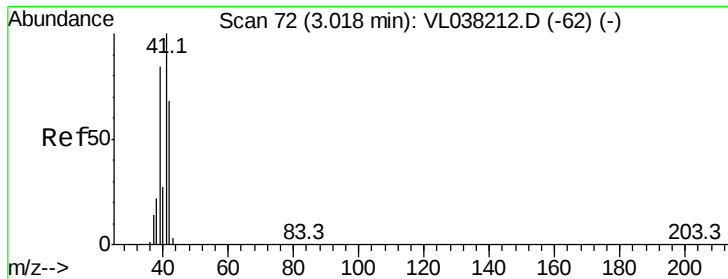
Tgt Ion: 50 Resp: 22748

Ion Ratio Lower Upper

50 100

52 28.3 26.2 39.2



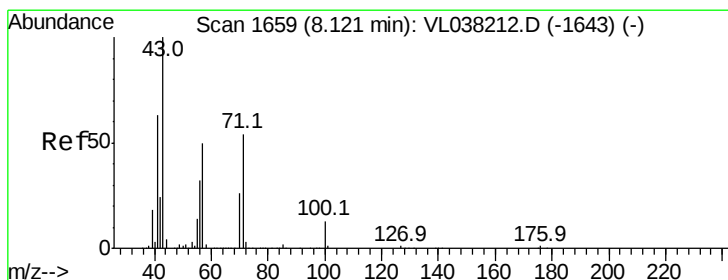
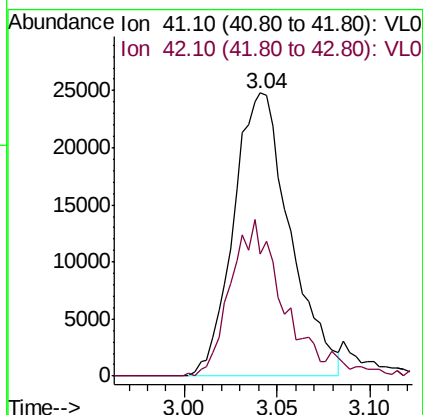
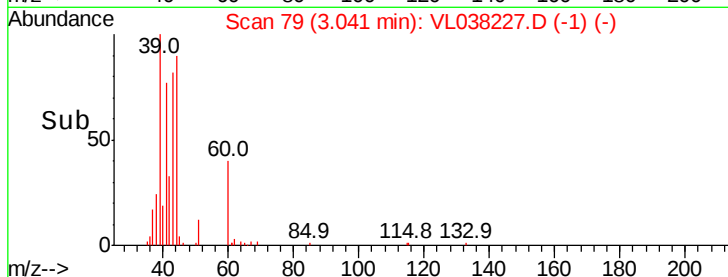
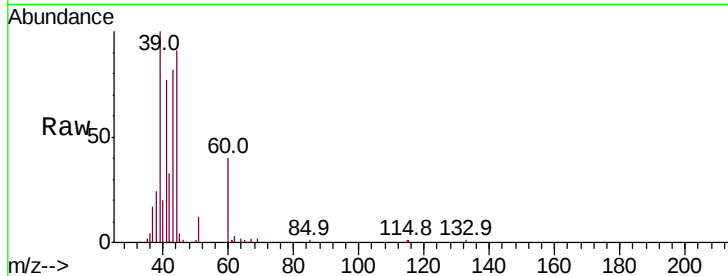


#9
 Propene
 Concen: 1.123 ppbv
 RT: 3.04
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Dec 2021 00:16

Tot Ion:
 Ion Ratio
 41 100
 42 53.

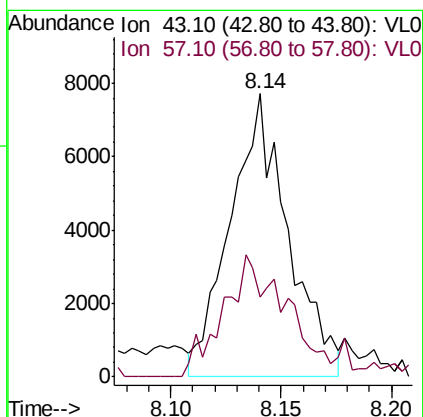
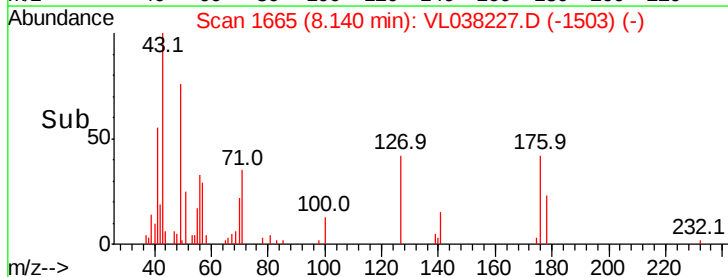
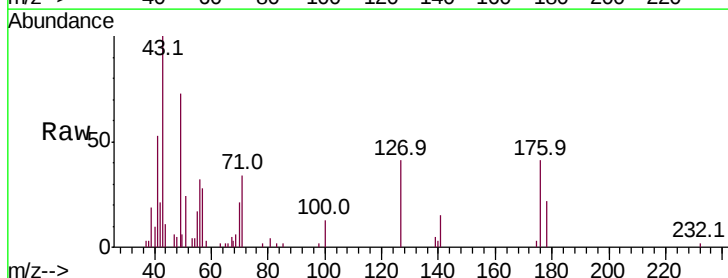
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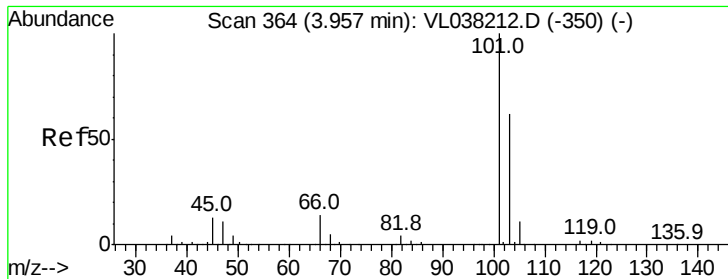
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#10
 Heptane
 Concen: 0.118 ppbv
 RT: 8.14 min Scan# 1665
 Delta R.T. 0.02 min
 Lab File: VL038227.D
 Acq: 22 Dec 2021 00:16

Tgt Ion: 43 Resp: 14031
 Ion Ratio Lower Upper
 43 100
 57 48.8 40.3 60.5





#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:16

Tot Ion:1

Ion Rati

101 100

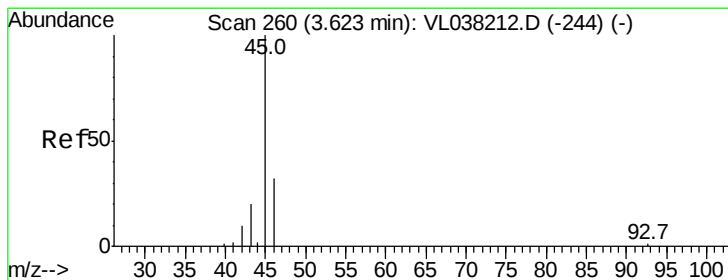
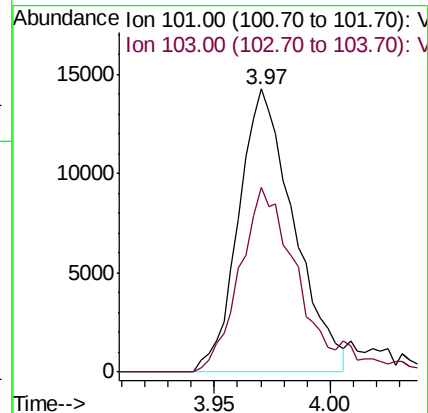
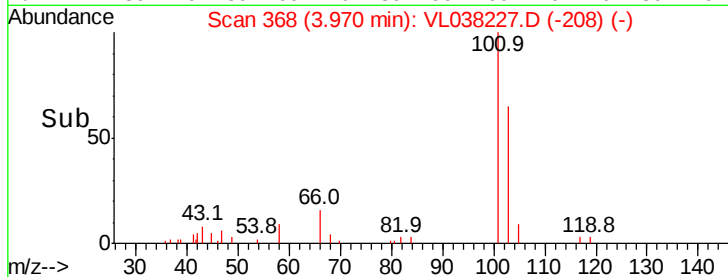
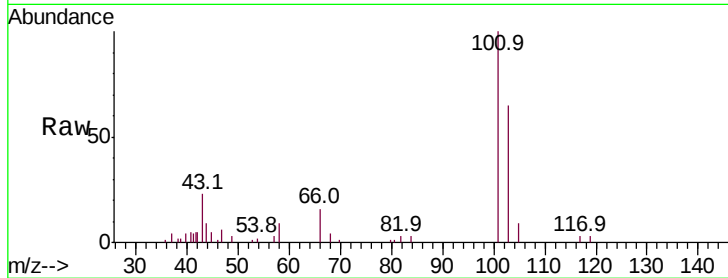
103 65.

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#13

Ethanol

Concen: 16.008 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.01 min

Lab File: VL038227.D

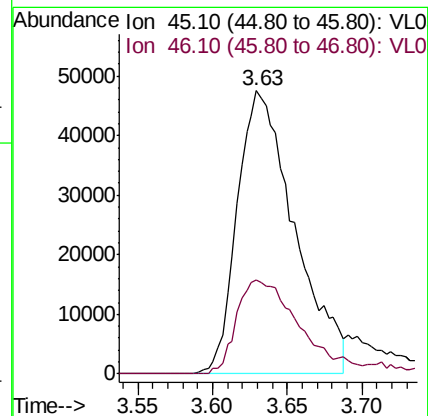
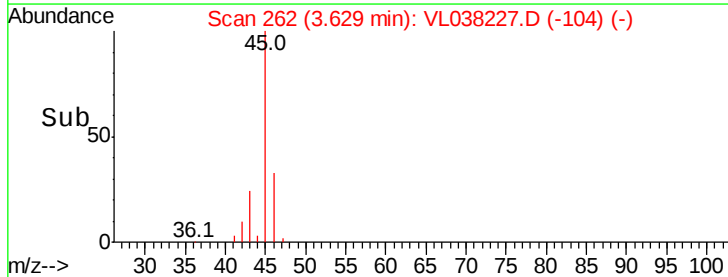
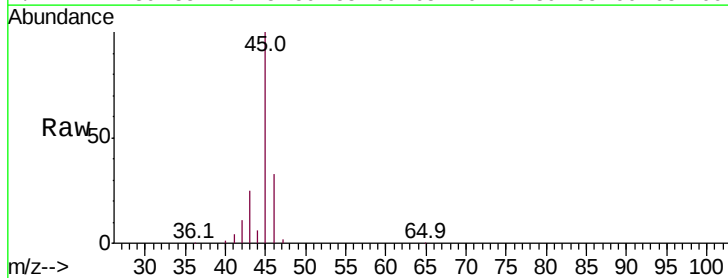
Acq: 22 Dec 2021 00:16

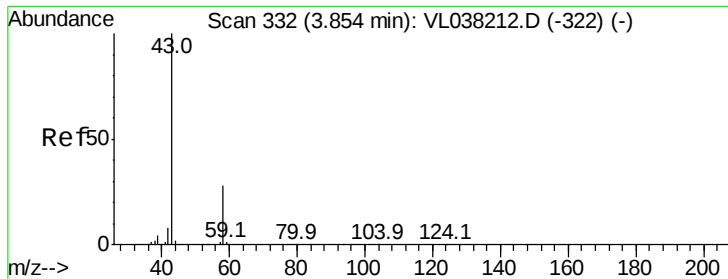
Tgt Ion: 45 Resp: 126895

Ion Ratio Lower Upper

45 100

46 40.7 0.0 0.0#



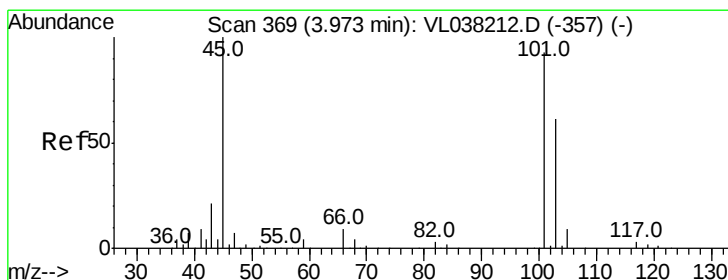
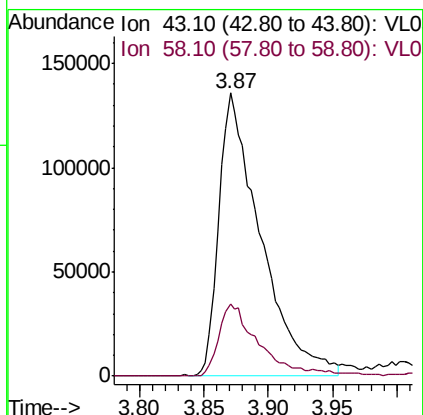
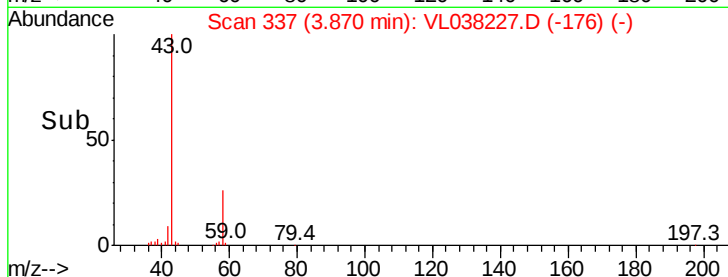
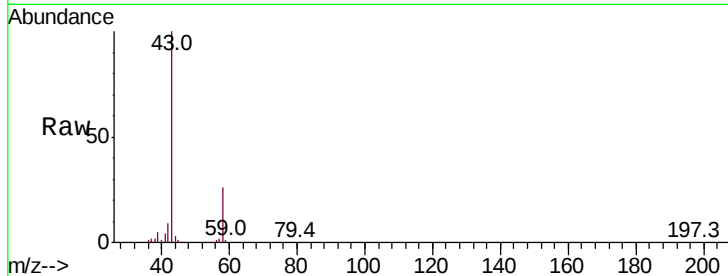


#15
Acetone
Concen: 4.732 ppbv
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Dec 2021 00:16

Tot Ion:
Ion Ratio
43 100
58 25.

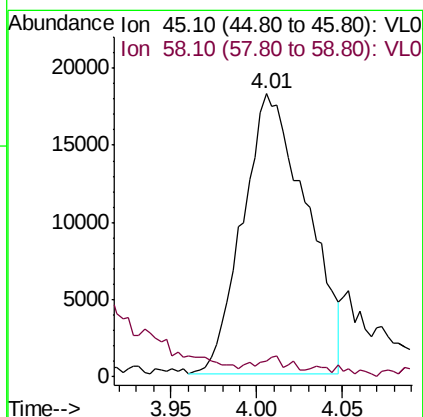
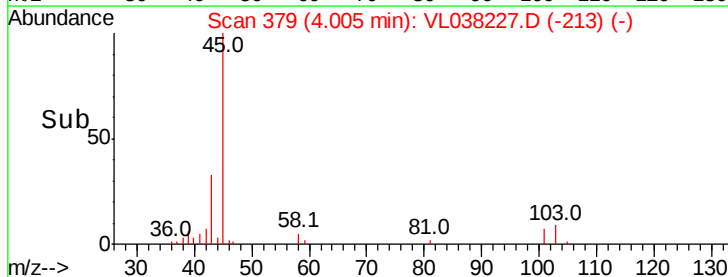
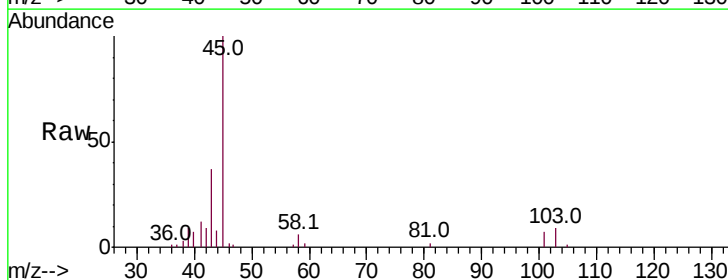
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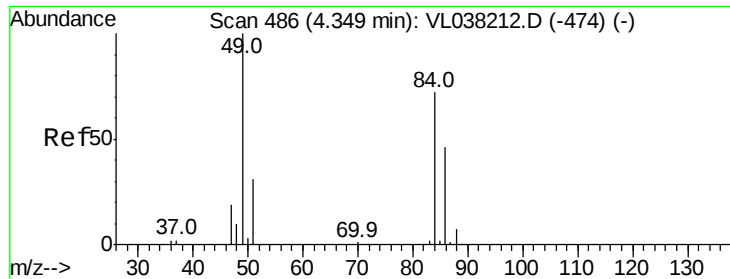
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#19
Isopropyl Alcohol
Concen: 1.168 ppbv
RT: 4.01 min Scan# 379
Delta R.T. 0.03 min
Lab File: VL038227.D
Acq: 22 Dec 2021 00:16

Tgt Ion: 45 Resp: 46837
Ion Ratio Lower Upper
45 100
58 0.0 32.4 48.6#



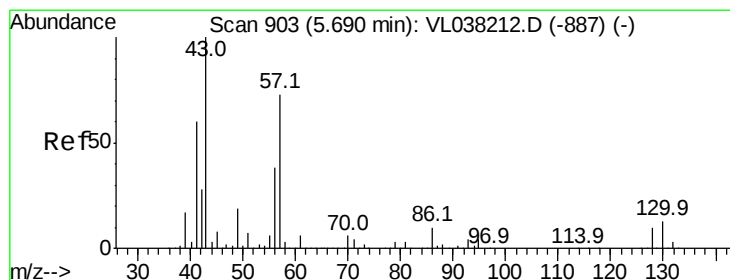
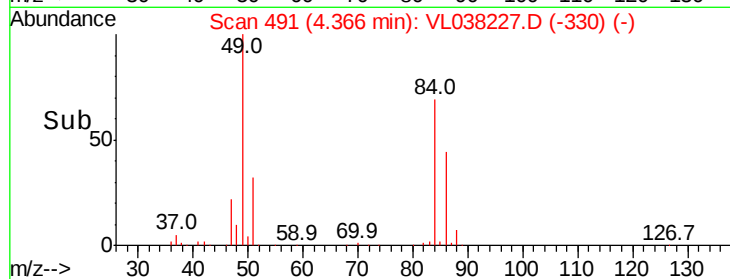
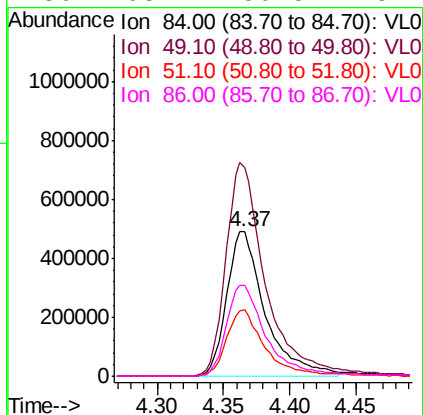
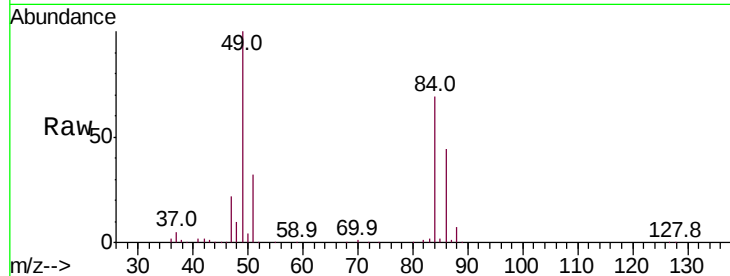


#20
Methvlene Chloride
Concen: 27.185 ppbv
RT: 4.37
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 22 Dec 2021 00:16

Tot Ion:
Ion Ratio
84 100
49 144.
51 45.
86 63.2 50.5 75.7

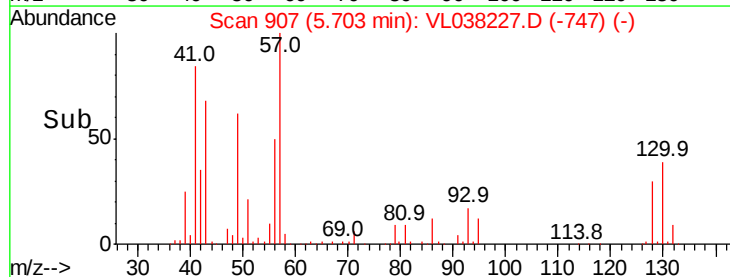
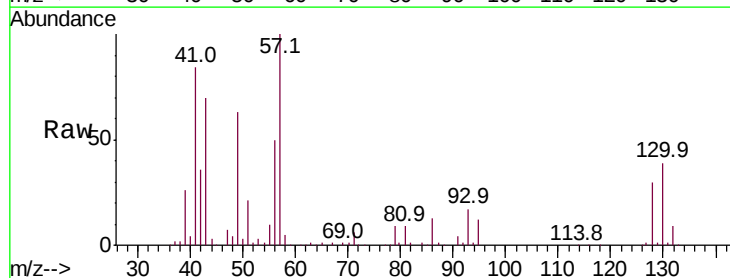
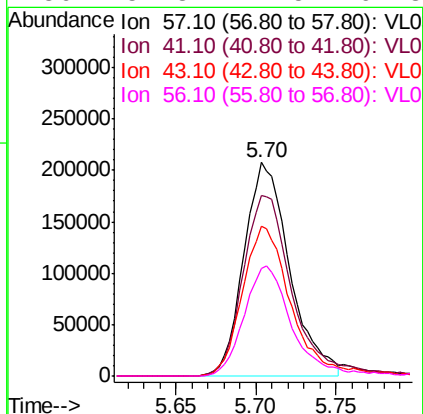
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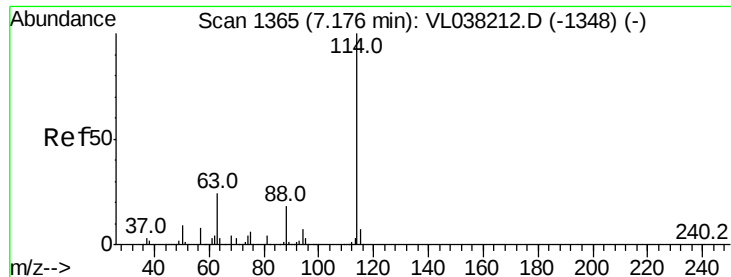
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#26
Hexane
Concen: 4.649 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL038227.D
Acq: 22 Dec 2021 00:16

Tgt Ion: 57 Resp: 406479
Ion Ratio Lower Upper
57 100
41 92.9 69.0 103.6
43 76.3 171.2 256.8#
56 54.8 41.5 62.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:10

Tot Ion:1

Ion Rati

114 100

63 26.

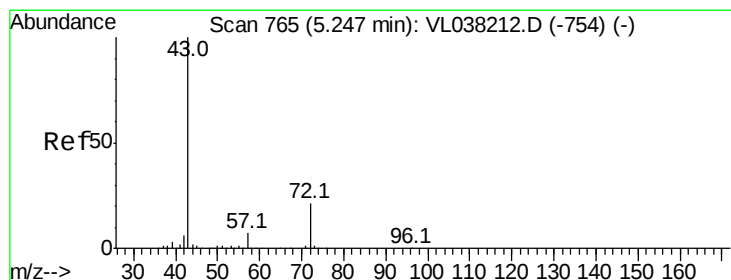
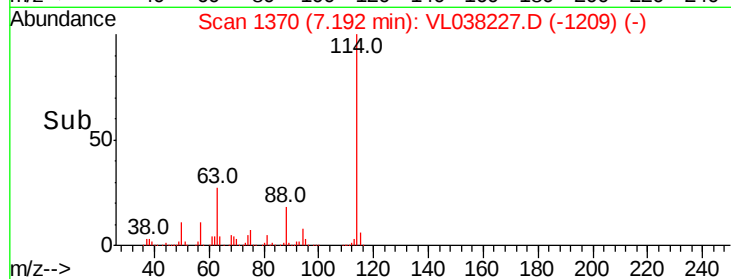
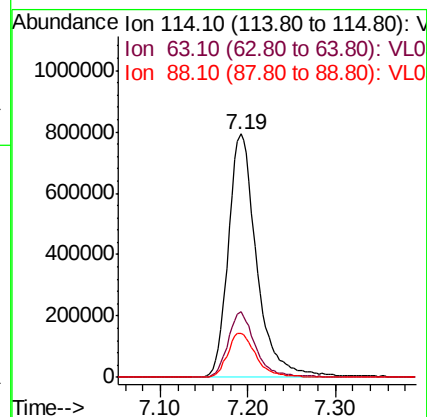
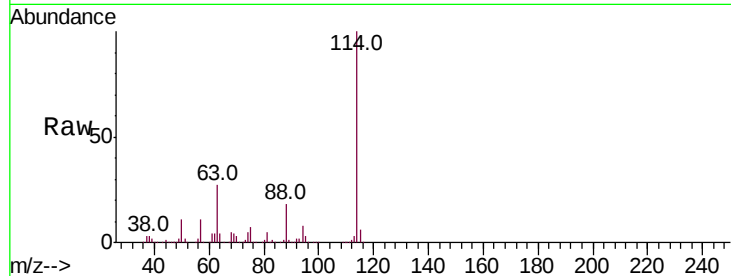
88 18.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#34

2-Butanone

Concen: 0.529 ppbv m

RT: 5.27 min Scan# 773

Delta R.T. 0.03 min

Lab File: VL038227.D

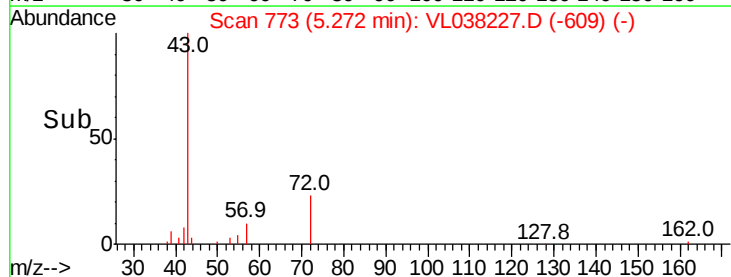
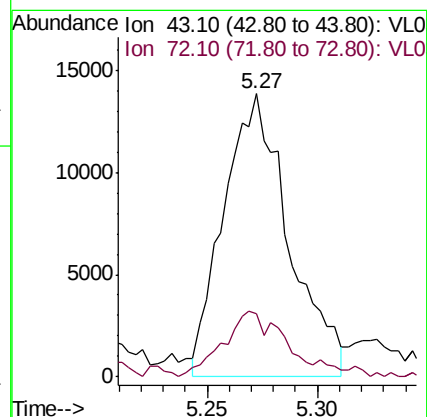
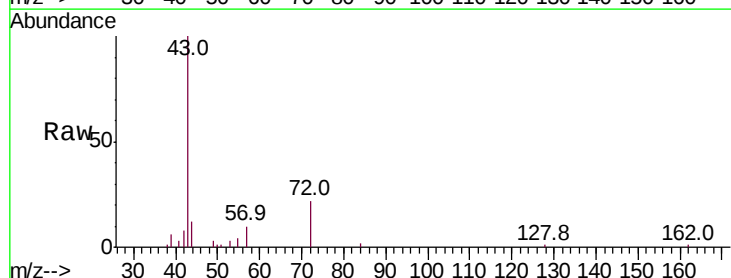
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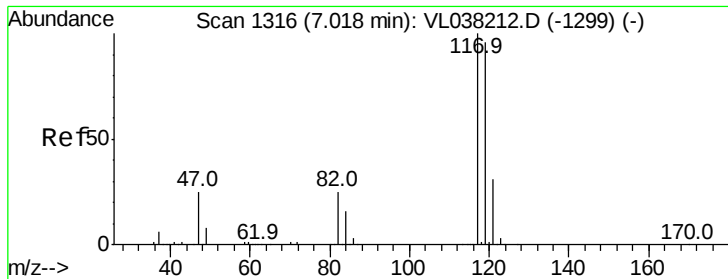
Tgt Ion: 43 Resp: 28398

Ion Ratio Lower Upper

43 100

72 24.7 18.3 27.5





#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:16

Tot Ion:1

Ion Rati

117 100

119 65.

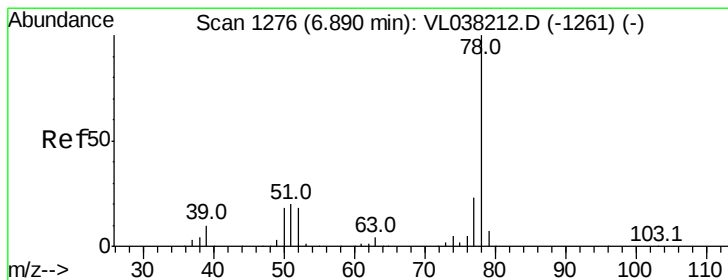
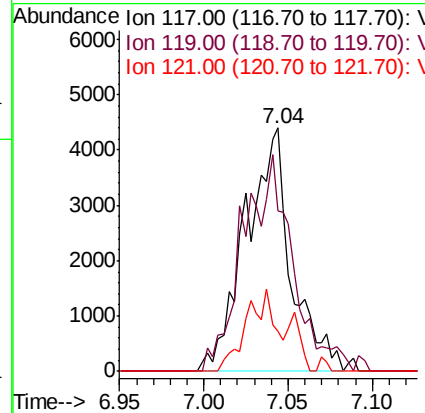
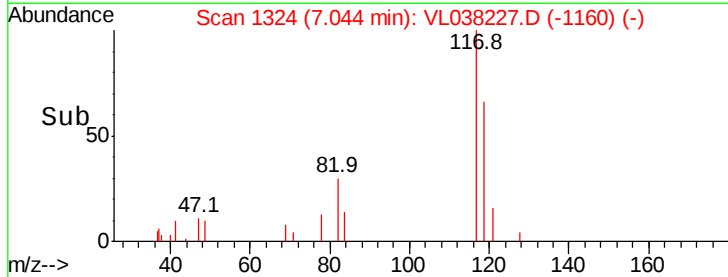
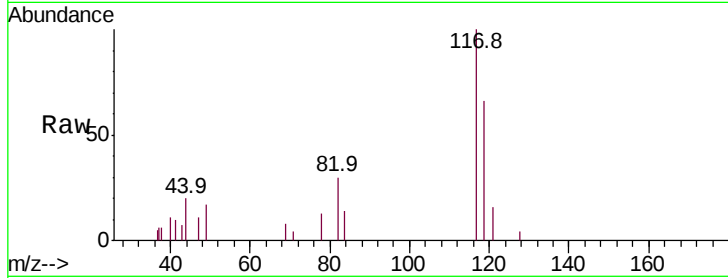
121 16.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#36

Benzene

Concen: 0.338 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.02 min

Lab File: VL038227.D

Acq: 22 Dec 2021 00:16

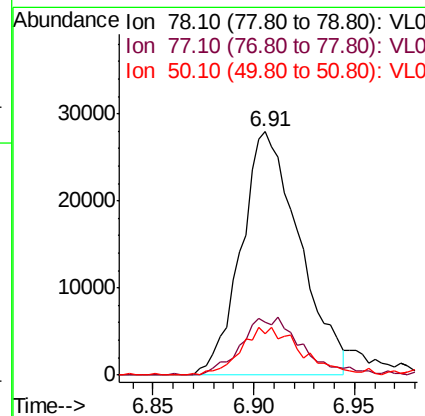
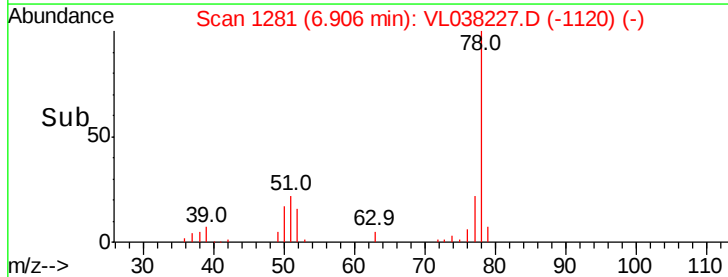
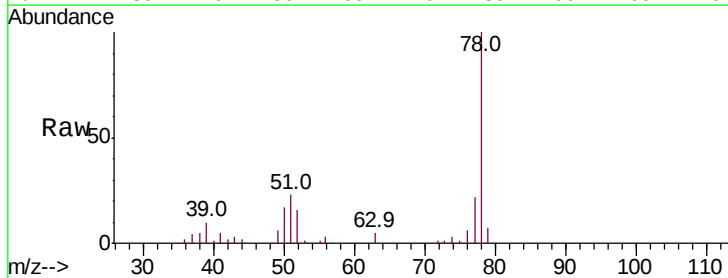
Tgt Ion: 78 Resp: 56405

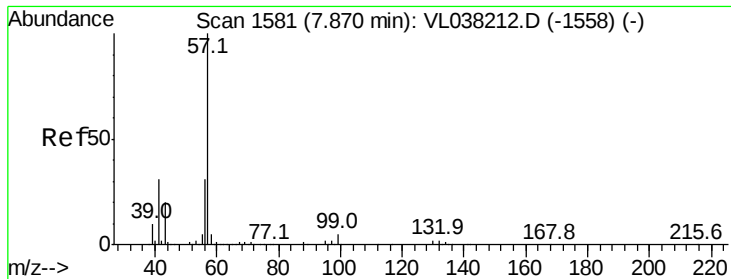
Ion Ratio Lower Upper

78 100

77 21.9 18.2 27.4

50 16.0 14.3 21.5





#44

2,2,4-Trimethylpentane

Concen: 0.198 ppbv m

RT: 7.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Dec 2021 00:16

Tot Ion:

Ion Ratio

57 100

41 46.

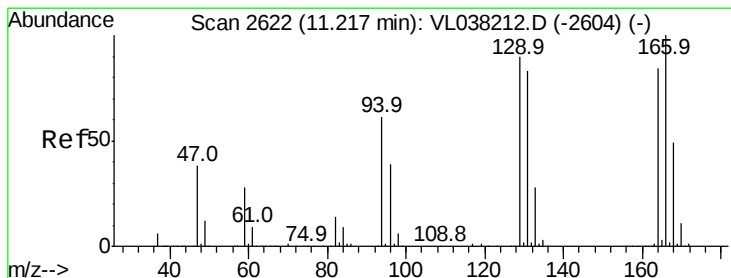
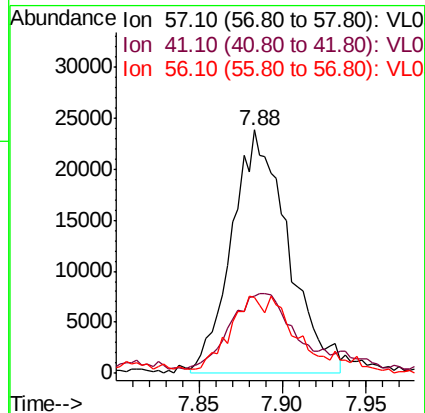
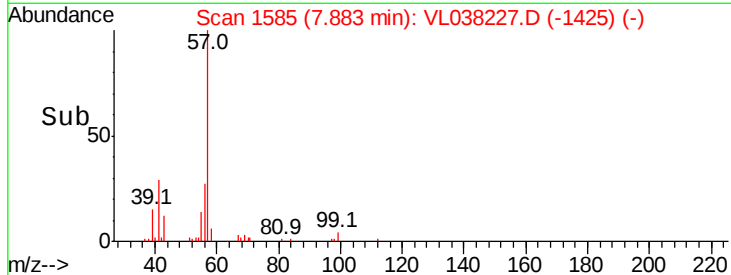
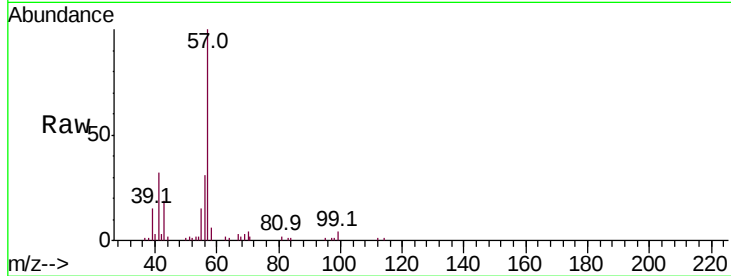
56 39.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#52

Tetrachloroethene

Concen: 0.116 ppbv m

RT: 11.24 min Scan# 2630

Delta R.T. 0.03 min

Lab File: VL038227.D

Acq: 22 Dec 2021 00:16

Tgt Ion:164 Resp: 7124

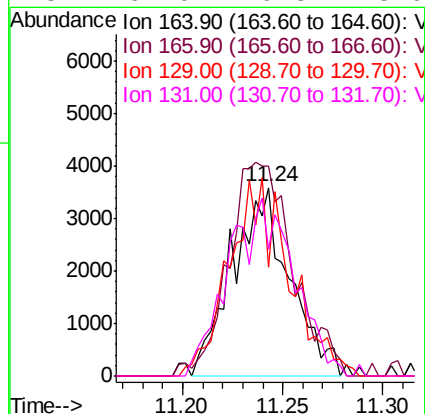
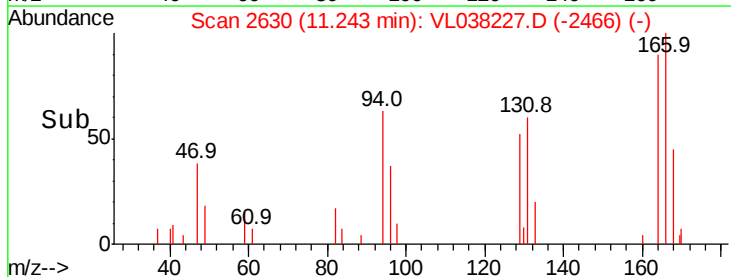
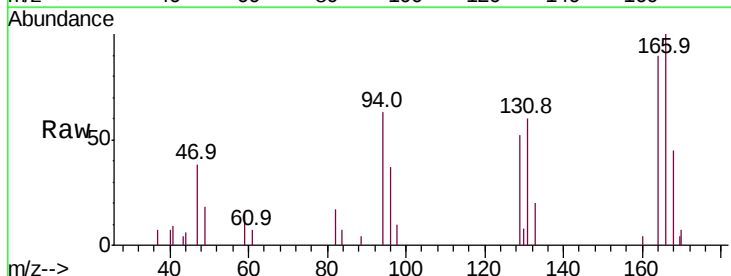
Ion Ratio Lower Upper

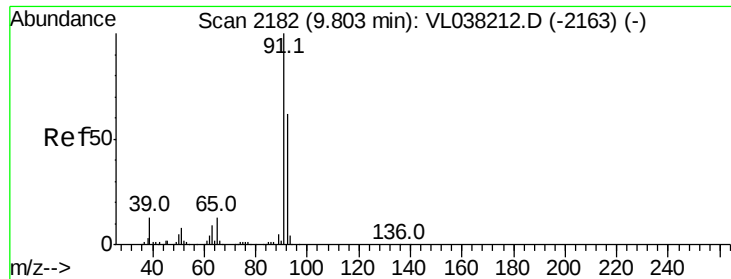
164 100

166 111.0 95.6 143.4

129 57.6 85.8 128.8#

131 67.0 79.3 118.9#





#53

Toluene

Concen: 0.584 ppbv

RT: 9.82 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 22 Dec 2021 00:16

Tot Ion:

Ion Ratio

91 100

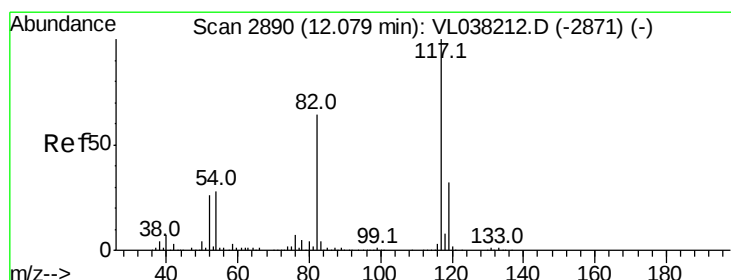
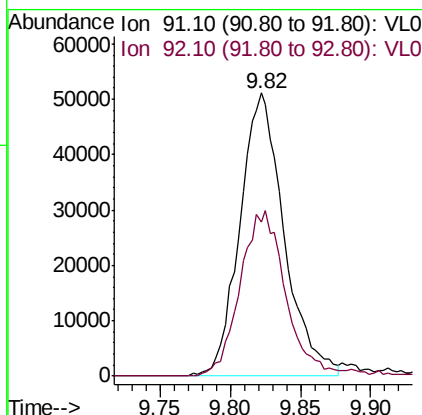
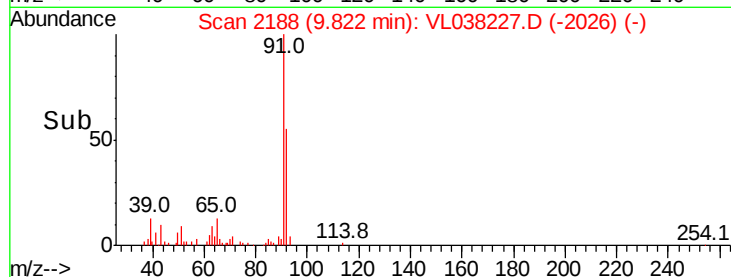
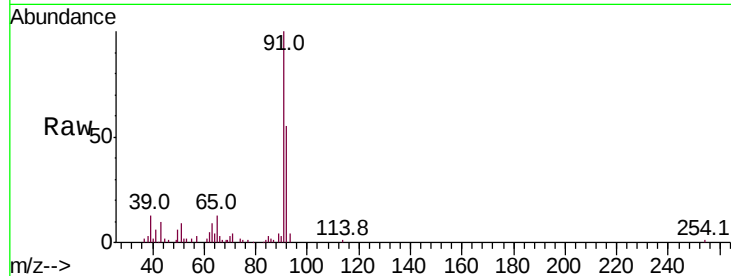
92 61.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.02 min

Lab File: VL038227.D

Acq: 22 Dec 2021 00:16

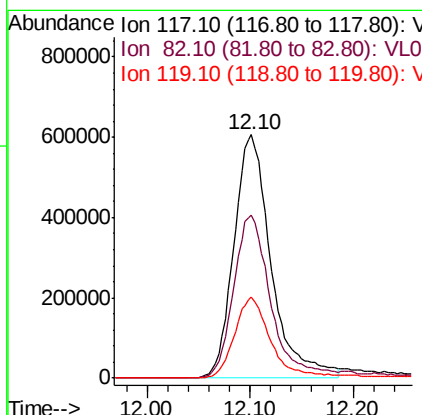
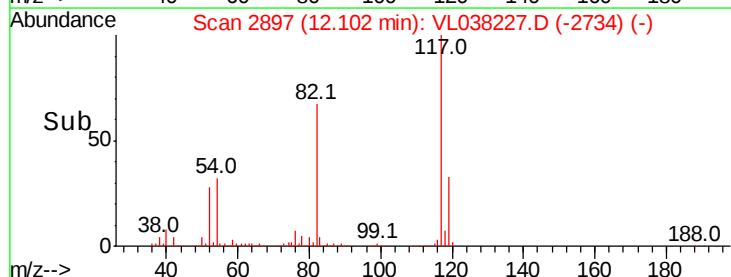
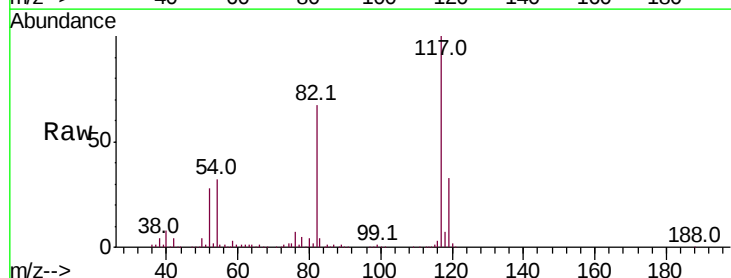
Tgt Ion:117 Resp: 1525458

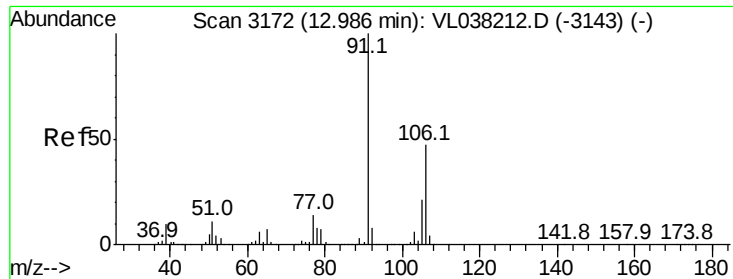
Ion Ratio Lower Upper

117 100

82 71.3 53.3 79.9

119 34.3 25.5 38.3



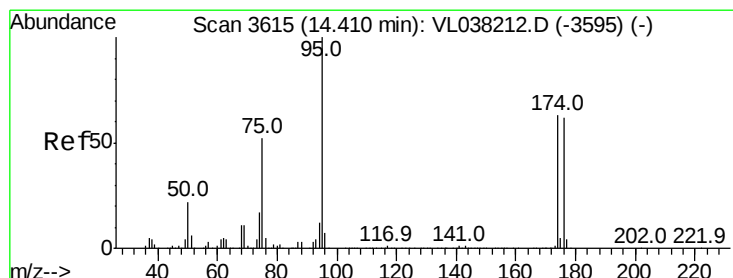
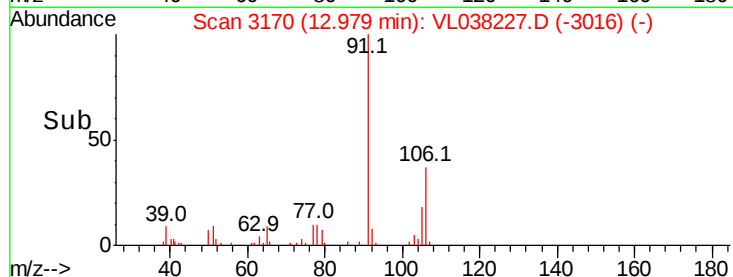
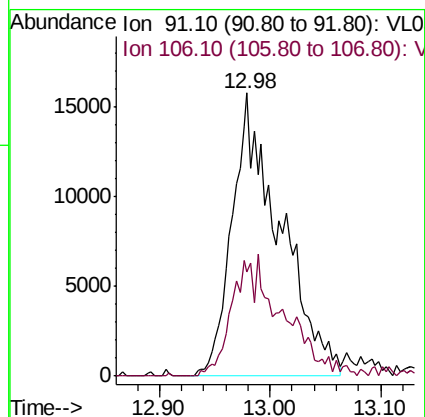
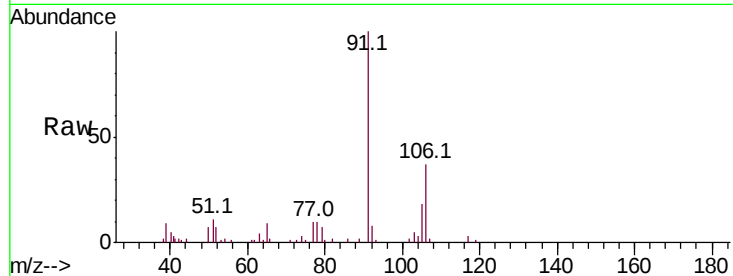


#59
m/p-Xylene
Concen: 0.234 ppbv m
RT: 12.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 22 Dec 2021 00:16

Tot Ion:
Ion Ratio
91 100
106 0.

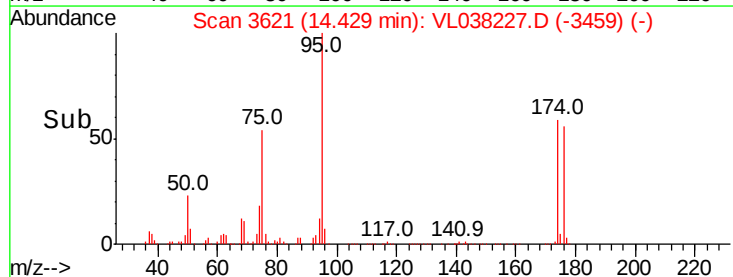
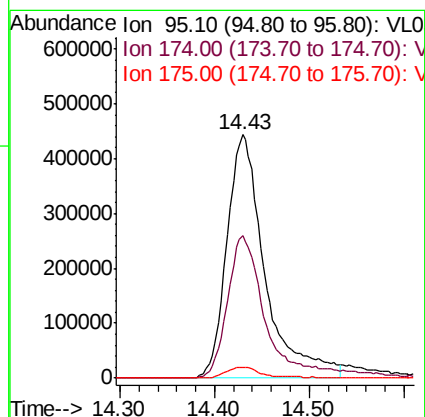
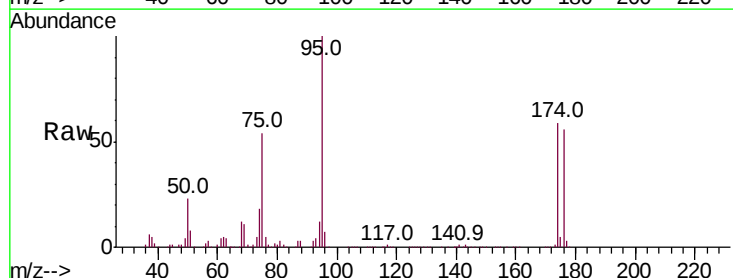
Manual Integrations
APPROVED

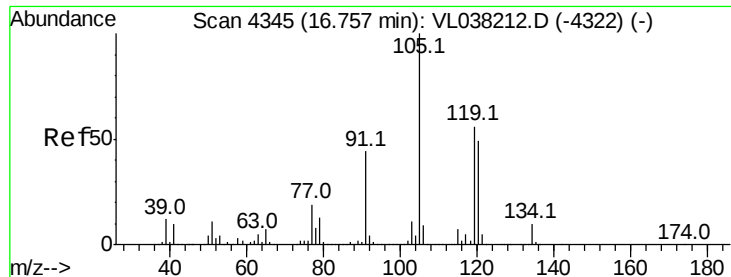
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 10.590 ppbv
RT: 14.43 min Scan# 3621
Delta R.T.: 0.02 min
Lab File: VL038227.D
Acq: 22 Dec 2021 00:16

Tgt Ion: 95 Resp: 1244915
Ion Ratio Lower Upper
95 100
174 60.5 54.6 81.8
175 4.5 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.136 ppbv m

RT: 16.77

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Dec 2021 00:10

Tot Ion:1

Ion Rati

105 100

120 39.

91 10.

77 12.9 15.6 23.4#

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021

