

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038225.D
 Acq On : 21 Dec 2021 22:57
 Operator : SY/AP
 Sample : M5118-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 08:44:35 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	646084	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1833318	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1555688	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1237653	10.32	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	37537	0.308	ppbv	94
3) Chlorodifluoromethane	3.01	51	49468	0.364	ppbv #	91
4) Chloromethane	3.15	50	25141m	0.534	ppbv	
9) Propene	3.04	41	69959m	1.484	ppbv	
10) Heptane	8.13	43	15526m	0.130	ppbv	
11) Trichlorofluoromethane	3.97	101	27872	0.249	ppbv	96
13) Ethanol	3.62	45	188886	23.634	ppbv #	100
15) Acetone	3.87	43	298201	4.599	ppbv	91
19) Isopropyl Alcohol	3.99	45	219153	5.419	ppbv #	40
20) Methylene Chloride	4.36	84	220101	6.012	ppbv	93
26) Hexane	5.70	57	212831	2.415	ppbv #	46
34) 2-Butanone	5.26	43	29944	0.543	ppbv	96
35) Carbon Tetrachloride	7.03	117	7426m	0.066	ppbv	
36) Benzene	6.90	78	54594	0.319	ppbv	99
41) Tetrahydrofuran	6.08	42	6364m	0.158	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	60751	0.209	ppbv #	78
52) Tetrachloroethene	11.24	164	6149m	0.097	ppbv	
53) Toluene	9.81	91	136110	0.690	ppbv	99
58) Ethyl Benzene	12.73	91	26201m	0.109	ppbv	
59) m/p-Xylene	12.98	91	69537m	0.337	ppbv	
60) o-Xylene	13.70	91	25976m	0.136	ppbv	

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

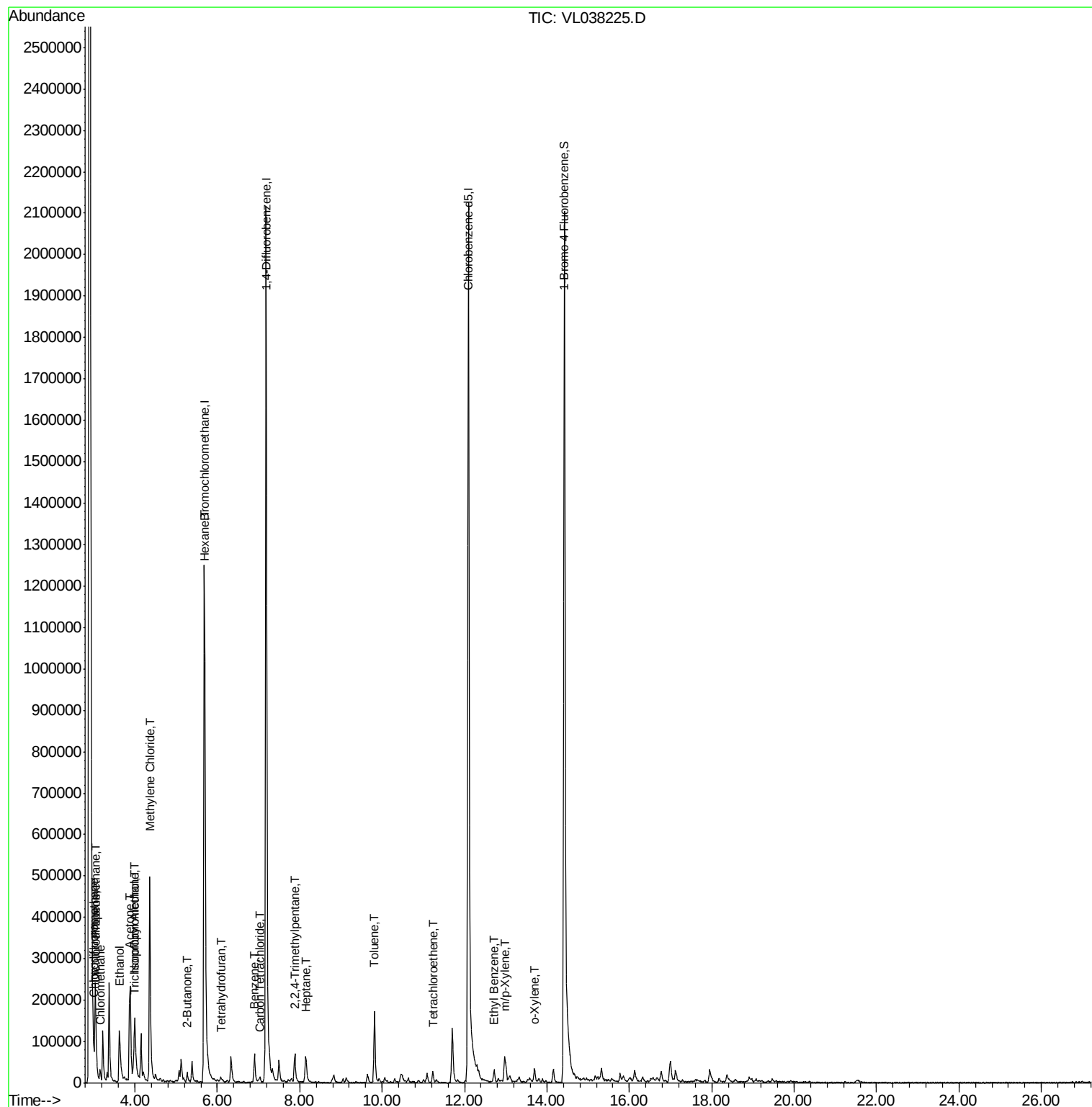
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
Data File : VL038225.D
Acq On : 21 Dec 2021 22:57
Operator : SY/AP
Sample : M5118-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

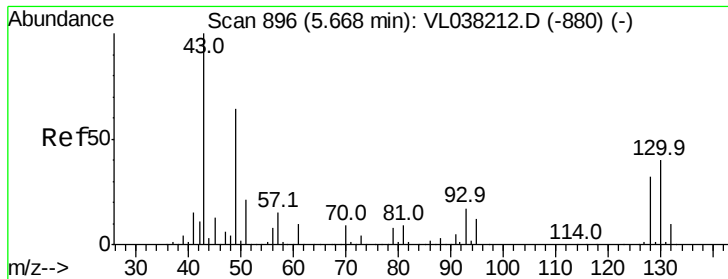
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Dec 22 08:44:35 2021
Quant Method : Z:\VOASRV\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 22:57

Tot Ion:

Ion Ratio

49 100

128 49.

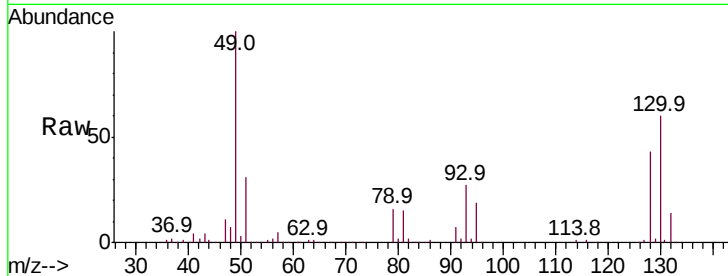
130 62.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

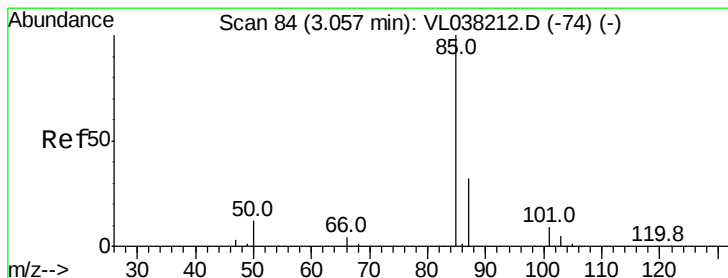
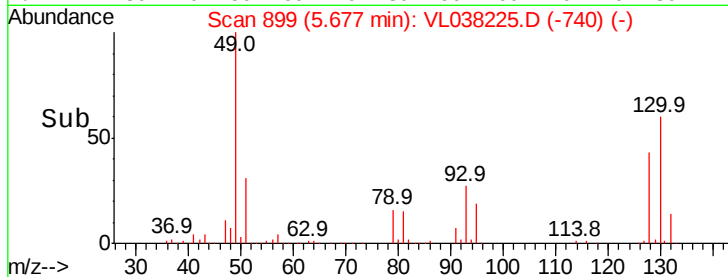
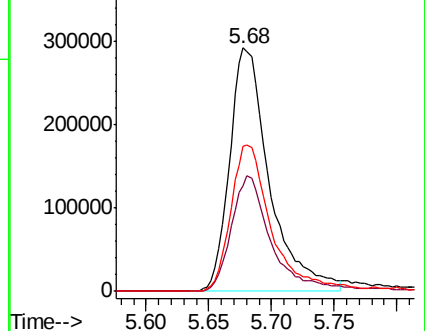
Supervised By :Mahesh Dadoda 12/29/2021



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: 0.308 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL038225.D

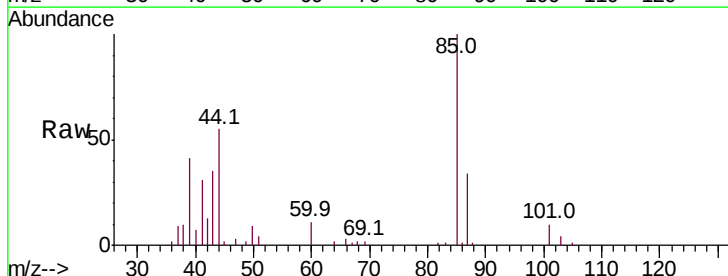
Acq: 21 Dec 2021 22:57

Tgt Ion: 85 Resp: 37537

Ion Ratio Lower Upper

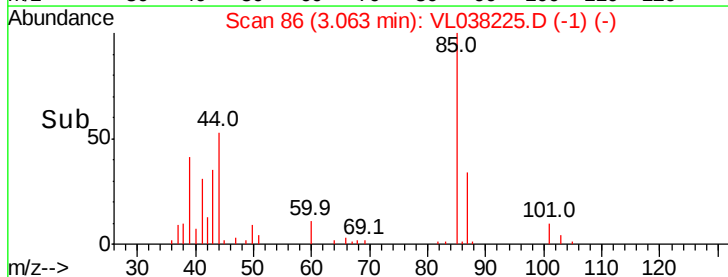
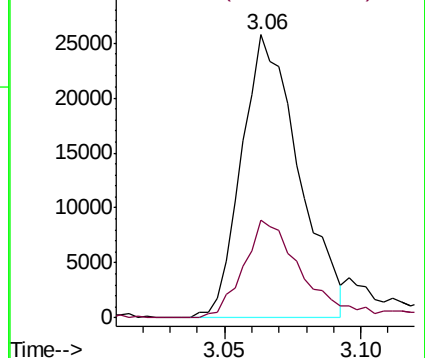
85 100

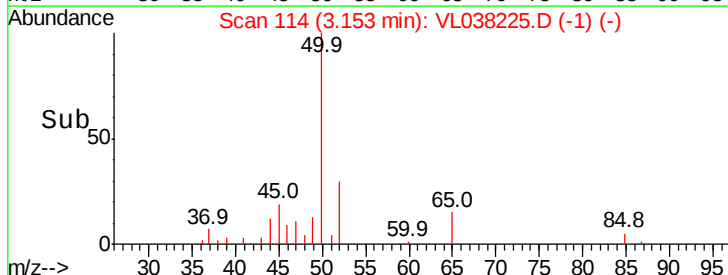
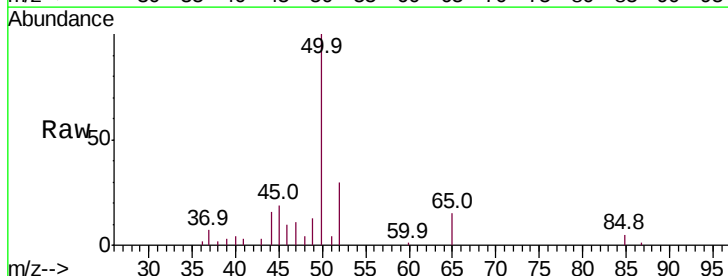
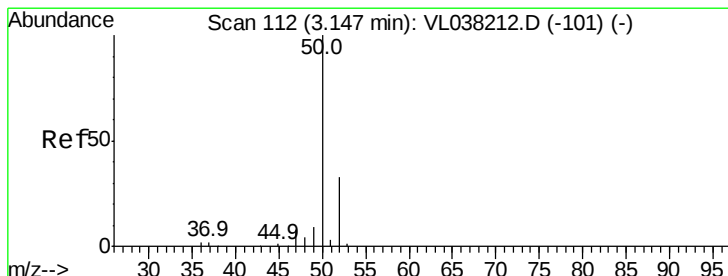
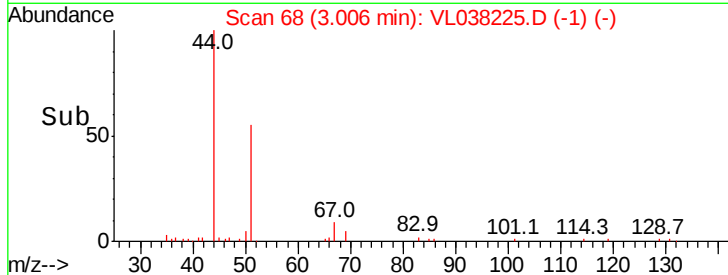
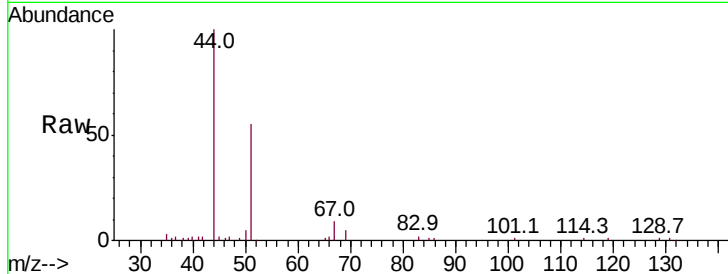
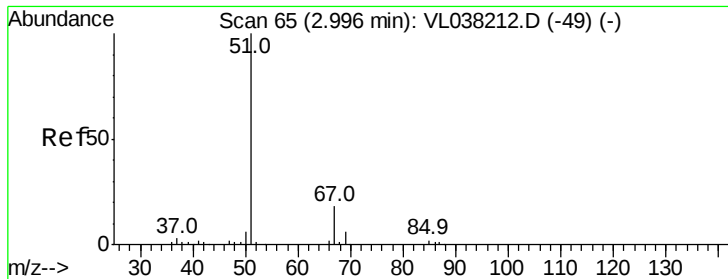
87 35.2 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.364 ppbv

RT: 3.01 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:57

Tot Ion:

Ion Ratio

51 100

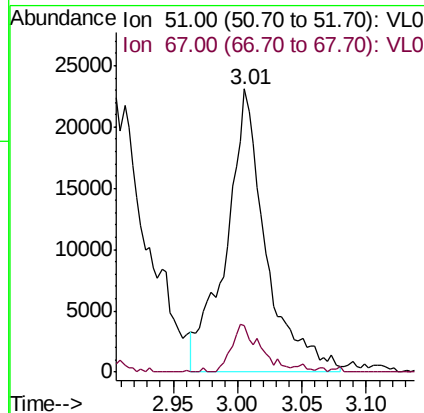
67 13.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#4

Chloromethane

Concen: 0.534 ppbv m

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL038225.D

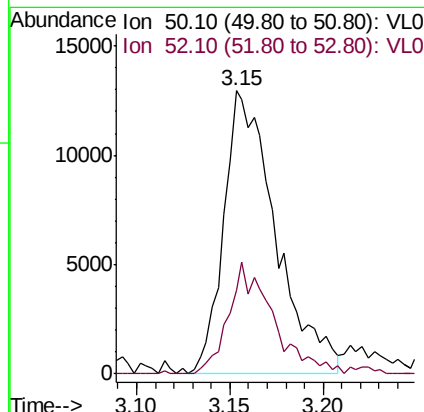
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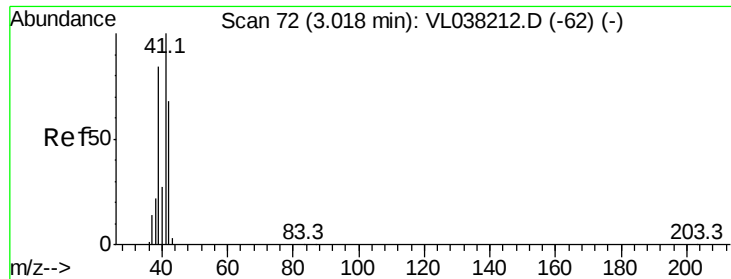
Tgt Ion: 50 Resp: 25141

Ion Ratio Lower Upper

50 100

52 29.6 26.2 39.2





#9

Propene

Concen: 1.484 ppbv m

RT: 3.04 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:57

Tot Ion:

Ion Ratio

41 100

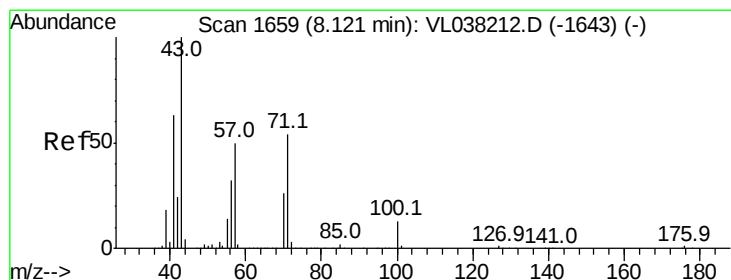
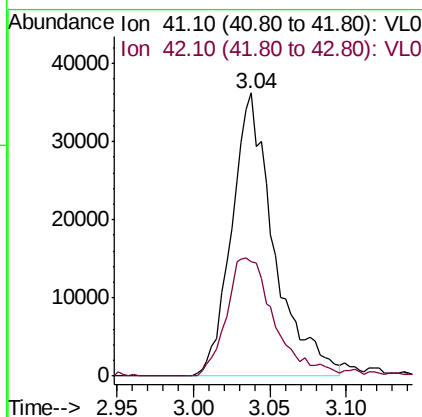
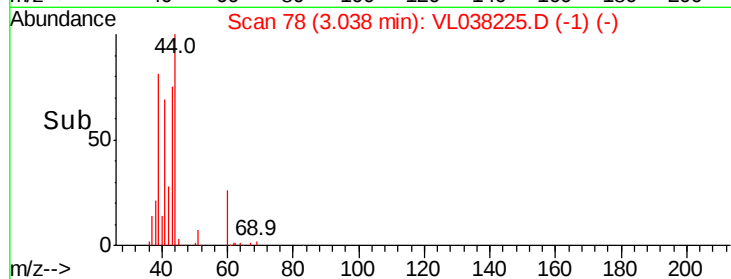
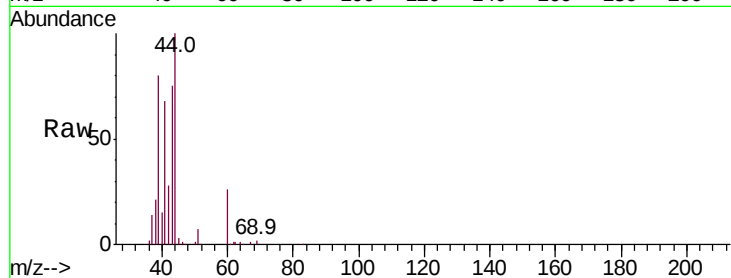
42 39.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

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#10

Heptane

Concen: 0.130 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL038225.D

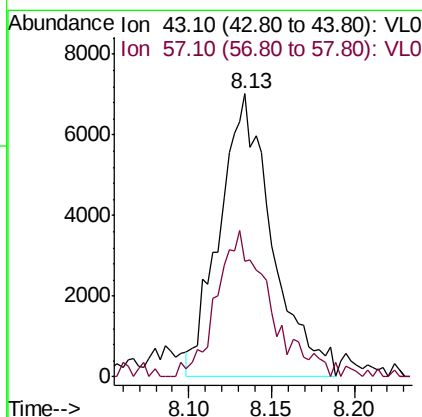
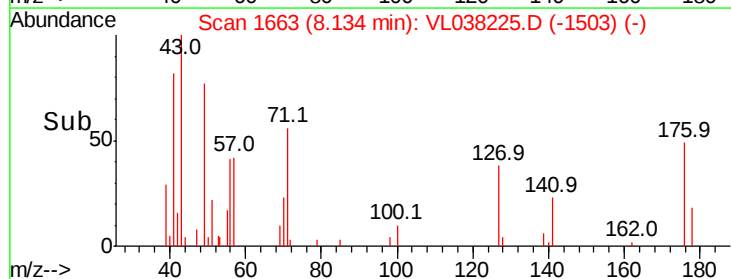
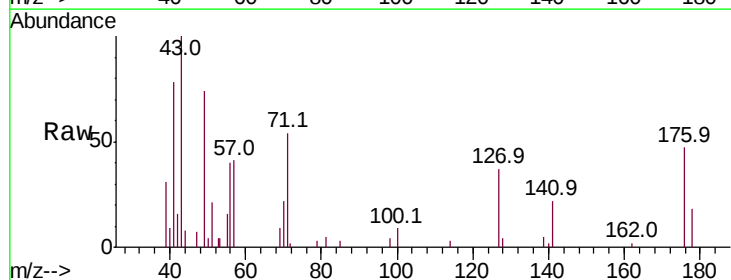
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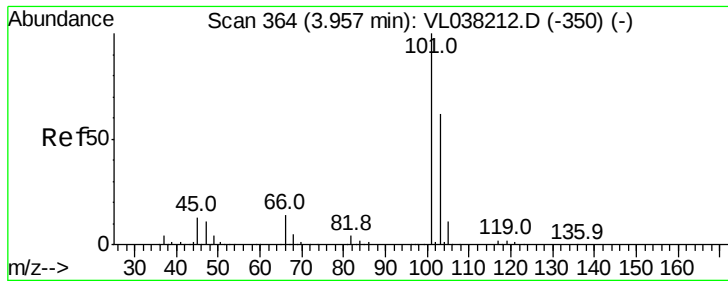
Tgt Ion: 43 Resp: 15526

Ion Ratio Lower Upper

43 100

57 52.8 40.3 60.5



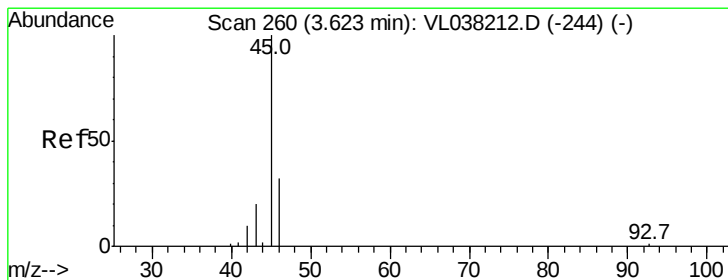
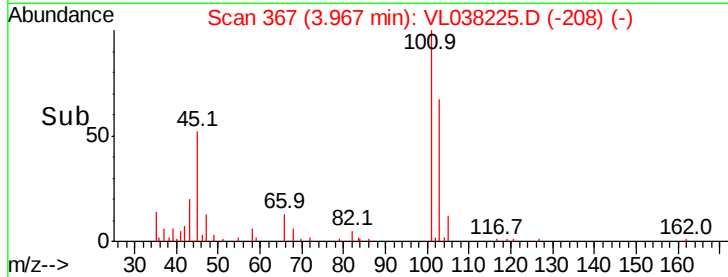
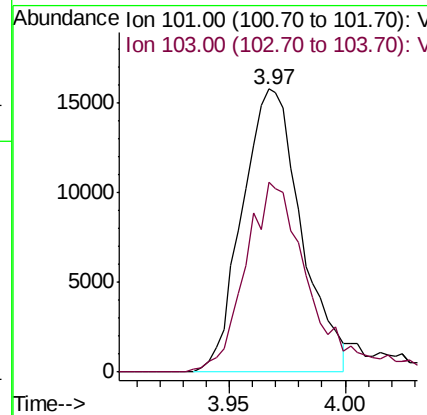
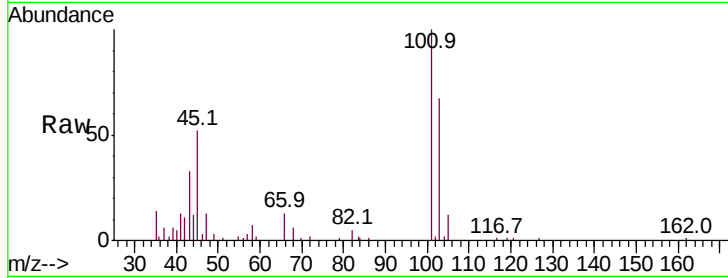


#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 3.97
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 21 Dec 2021 22:57

Tot Ion:1
 Ion Rati
 101 100
 103 65.

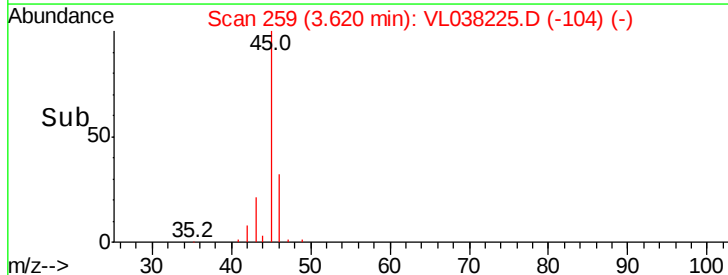
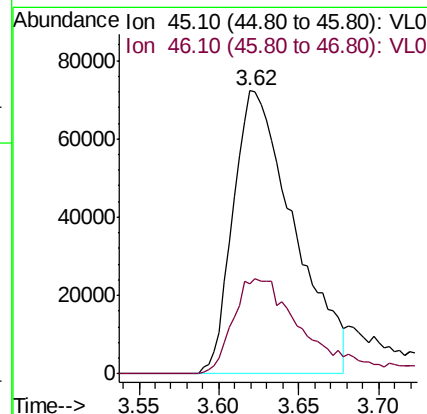
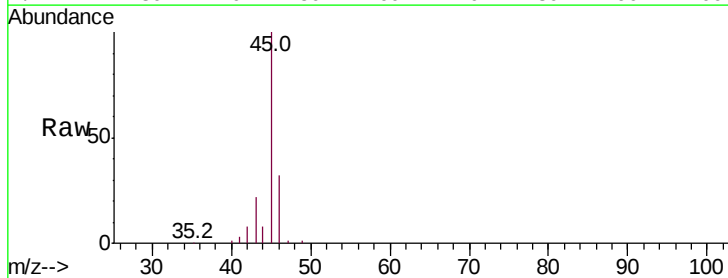
Manual Integrations
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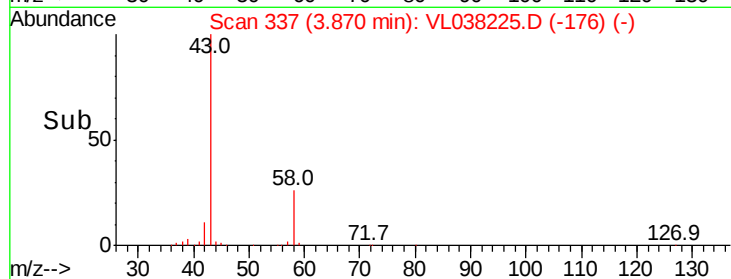
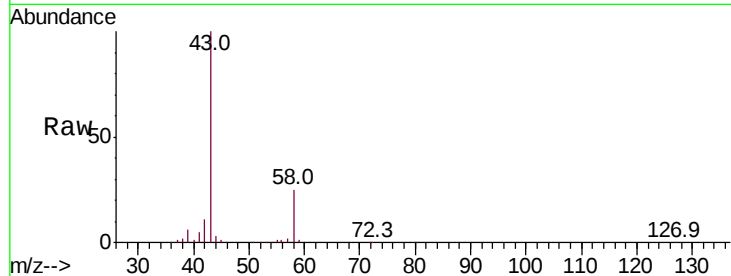
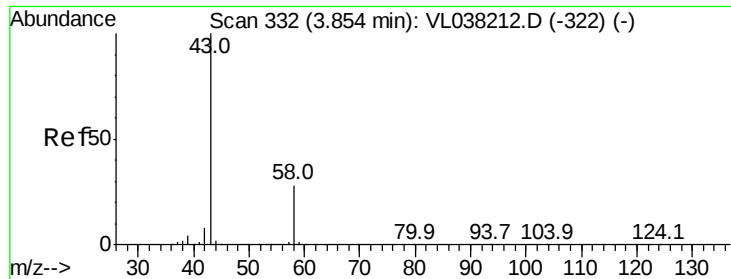
Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021



#13
 Ethanol
 Concen: 23.634 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. -0.00 min
 Lab File: VL038225.D
 Acq: 21 Dec 2021 22:57

Tgt Ion: 45 Resp: 188886
 Ion Ratio Lower Upper
 45 100
 46 42.5 0.0 0.0#





#15

Acetone

Concen: 4.599 ppbv

RT: 3.87 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:57

Tot Ion:

Ion Ratio

43 100

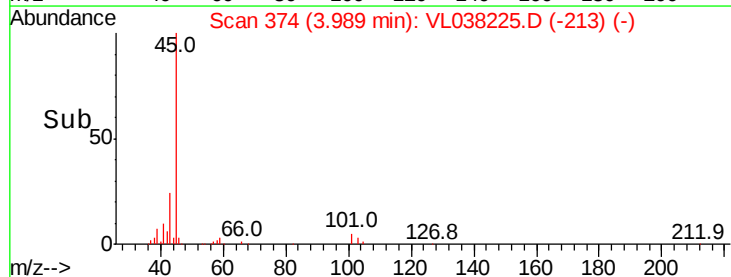
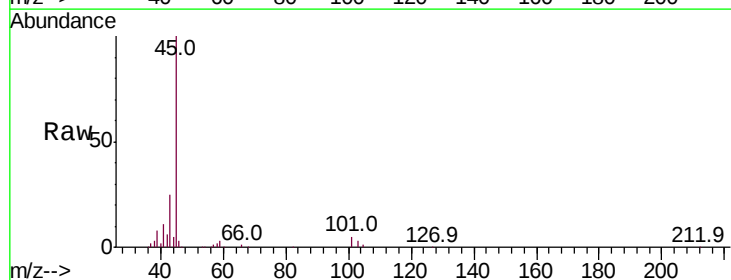
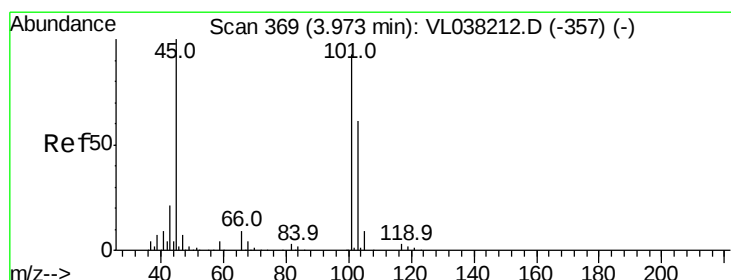
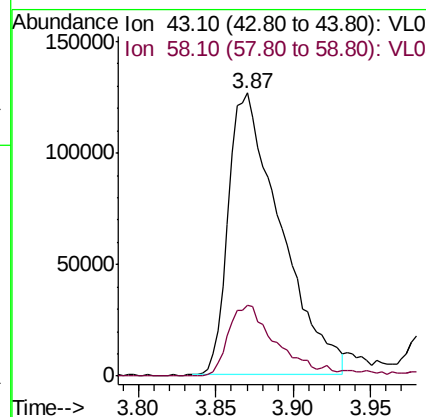
58 24.

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#19

Isopropyl Alcohol

Concen: 5.419 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL038225.D

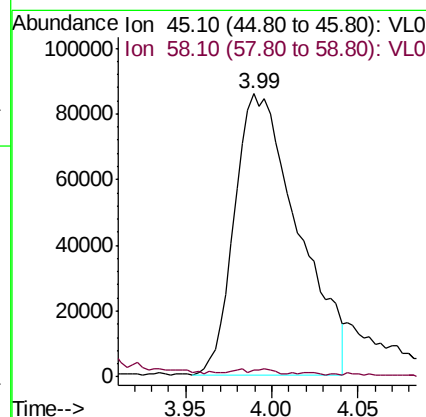
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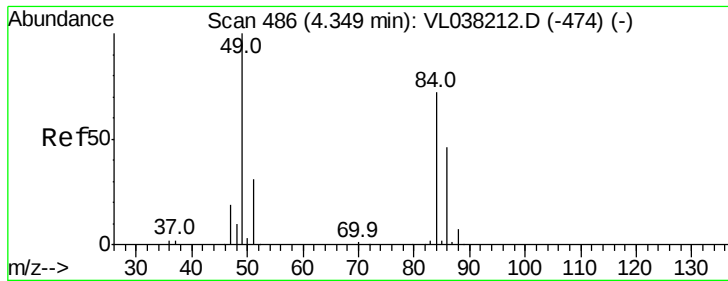
Tgt Ion: 45 Resp: 219153

Ion Ratio Lower Upper

45 100

58 3.1 32.4 48.6#





#20

Methylene Chloride

Concen: 6.012 ppbv

RT: 4.36 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 21 Dec 2021 22:57

Tot Ion:

Ion Ratio

84 100

49 150.

51 46.

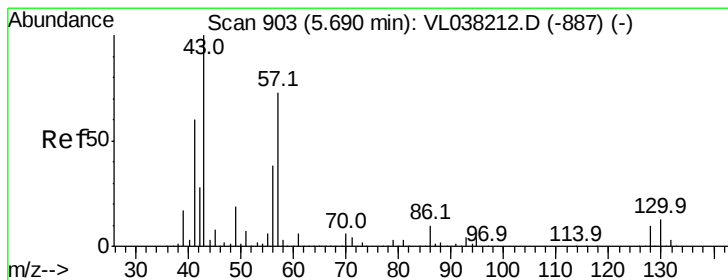
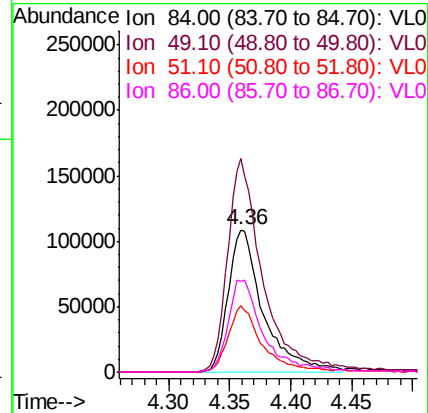
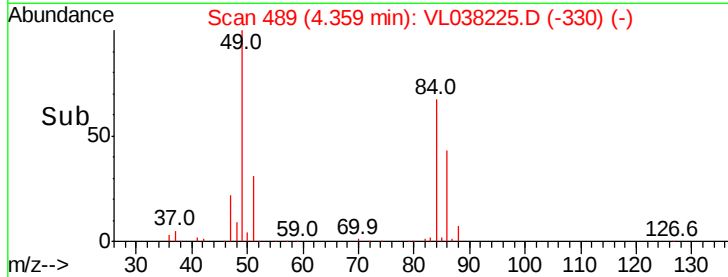
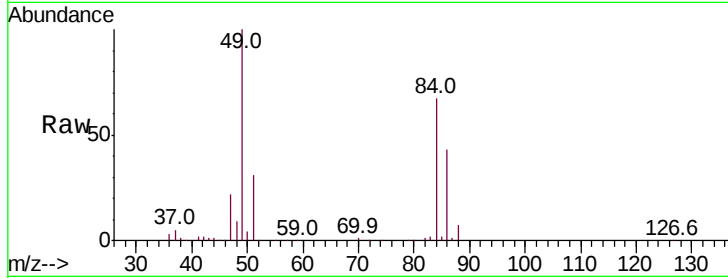
86 64.4 50.5 75.7

Manual Integrations

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Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#26

Hexane

Concen: 2.415 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL038225.D

Acq: 21 Dec 2021 22:57

Tgt Ion: 57 Resp: 212831

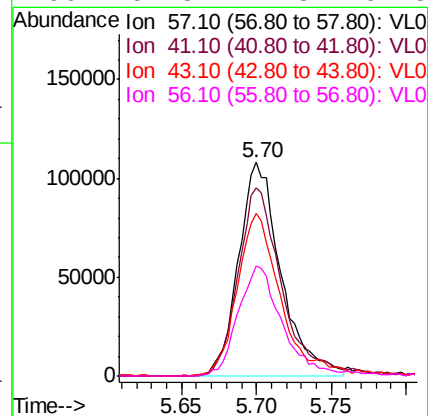
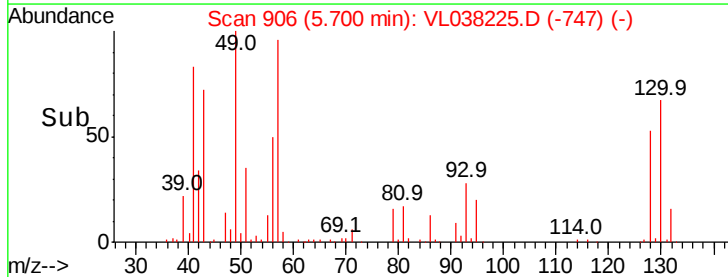
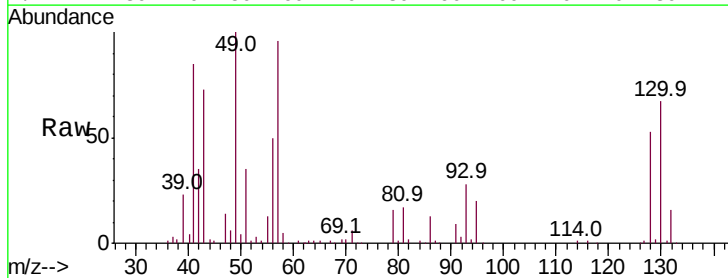
Ion Ratio Lower Upper

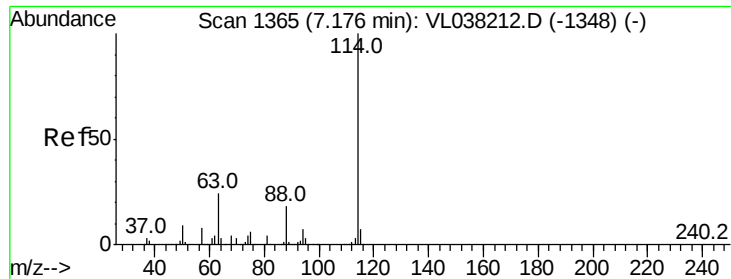
57 100

41 91.7 69.0 103.6

43 79.3 171.2 256.8#

56 54.8 41.5 62.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:57

Tot Ion:1

Ion Rati

114 100

63 26.

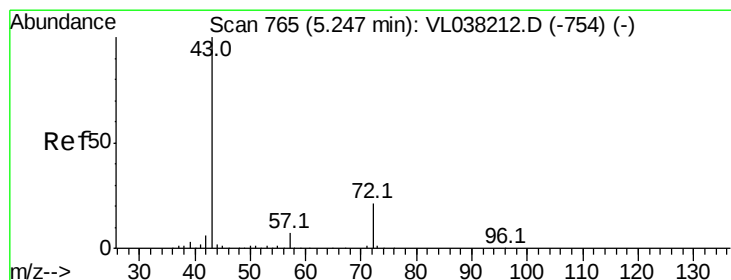
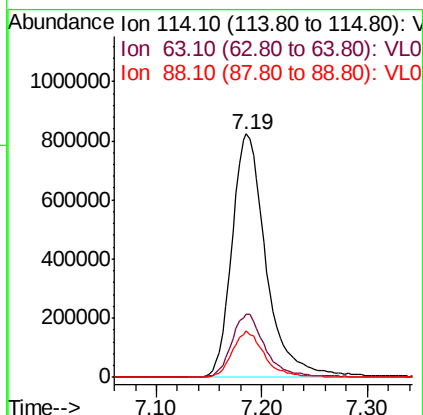
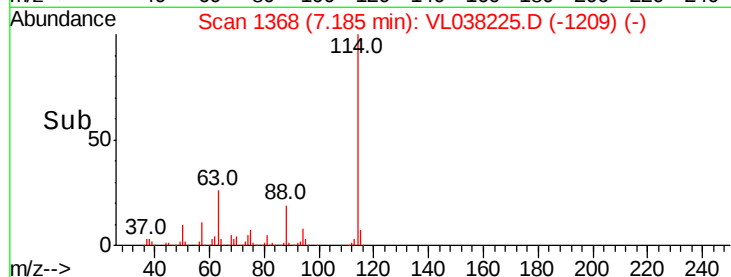
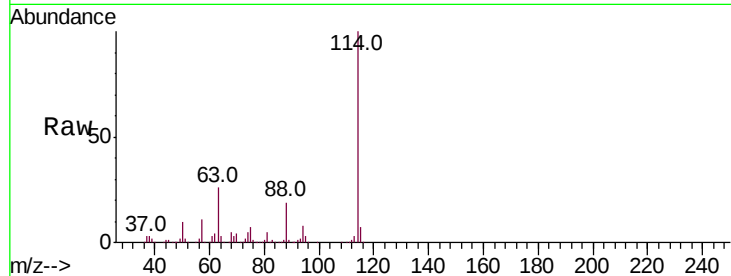
88 18.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#34

2-Butanone

Concen: 0.543 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL038225.D

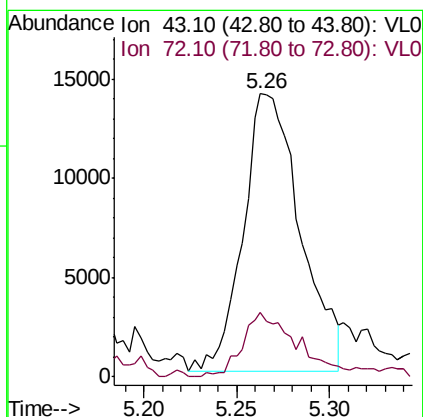
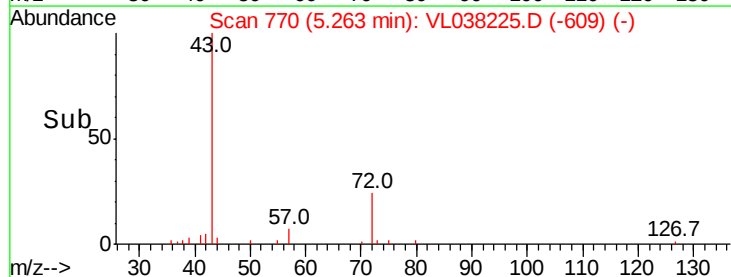
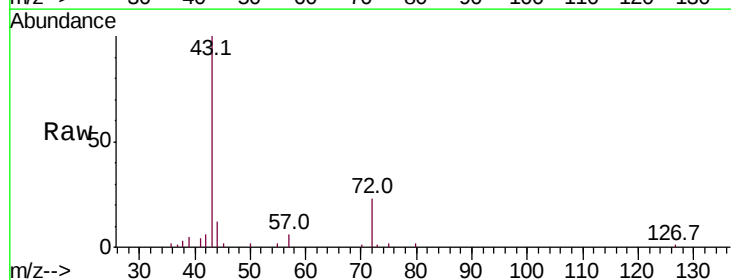
Acq: 21 Dec 2021 22:57

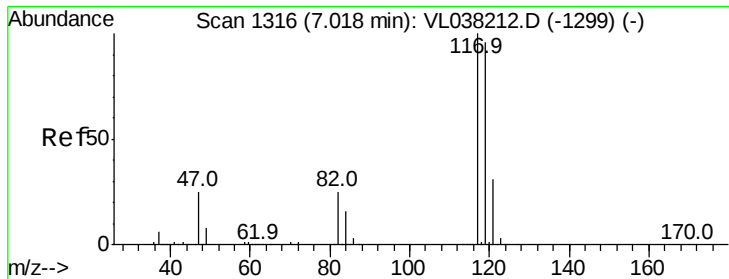
Tgt Ion: 43 Resp: 29944

Ion Ratio Lower Upper

43 100

72 24.8 18.3 27.5





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 22:57

Tot Ion:1

Ion Rati

117 100

119 86.

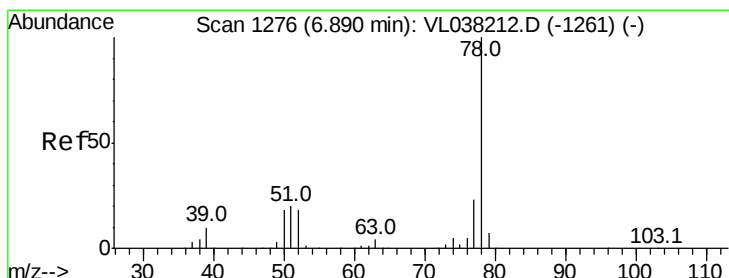
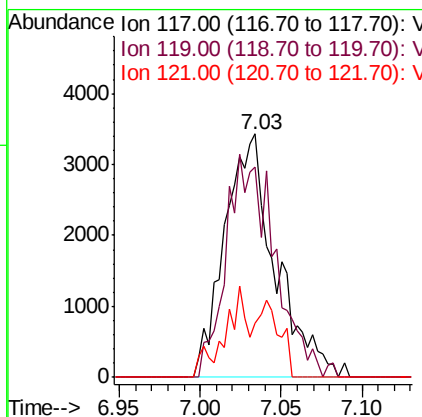
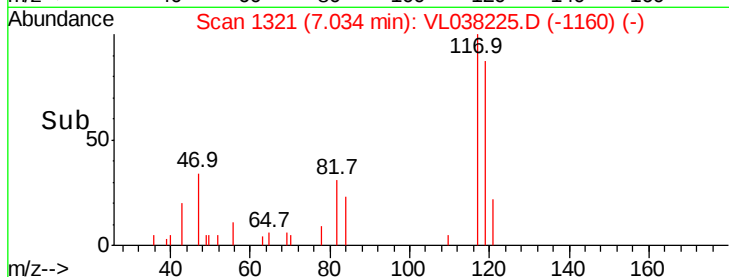
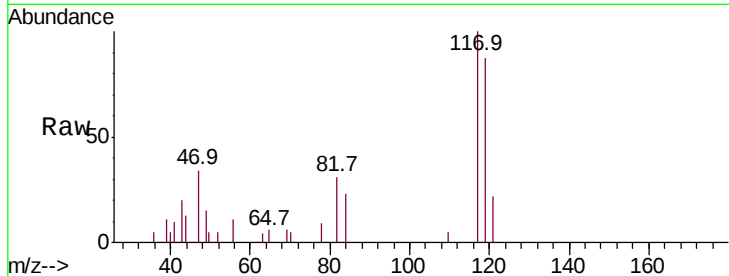
121 22.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#36

Benzene

Concen: 0.319 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL038225.D

Acq: 21 Dec 2021 22:57

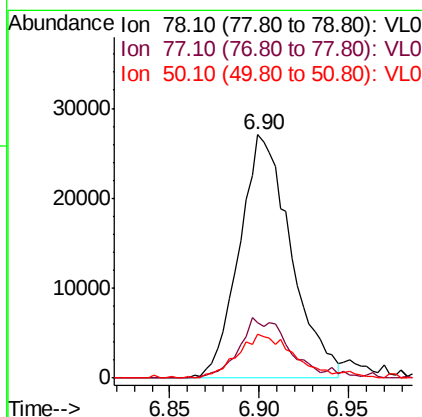
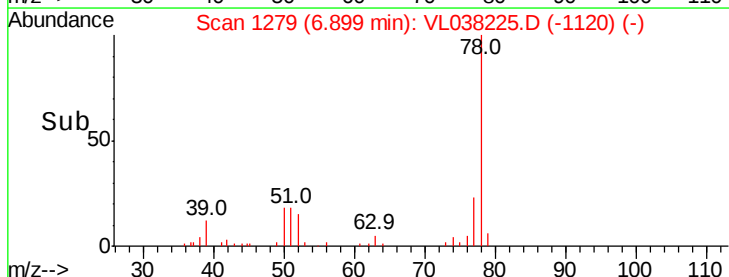
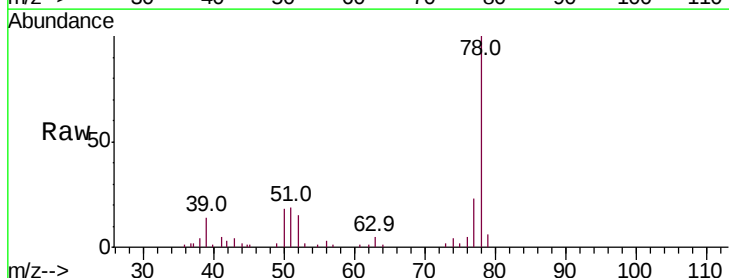
Tgt Ion: 78 Resp: 54594

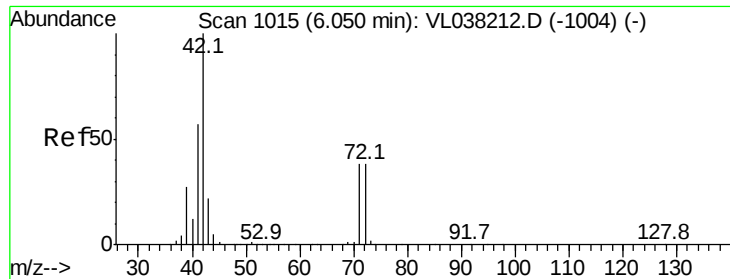
Ion Ratio Lower Upper

78 100

77 22.6 18.2 27.4

50 17.2 14.3 21.5





#41

Tetrahydrofuran

Concen: 0.158 ppbv m

RT: 6.08 Instrument:

Delta R.T. MSVOA_L

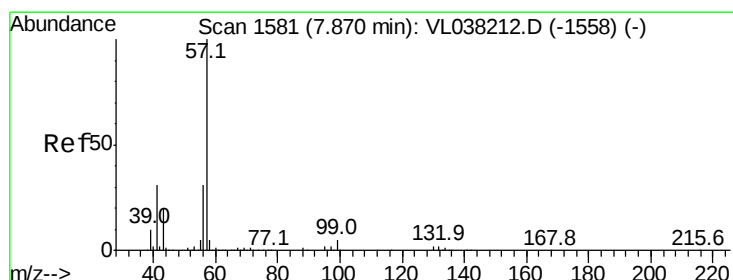
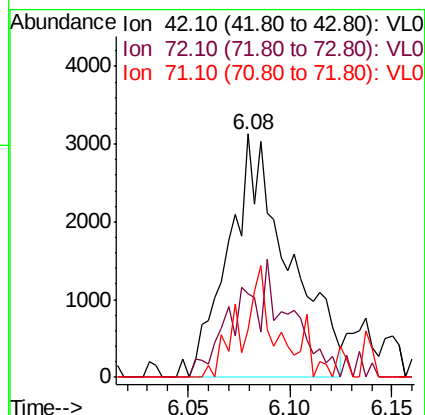
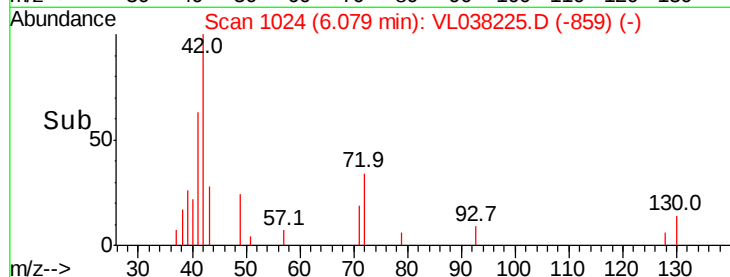
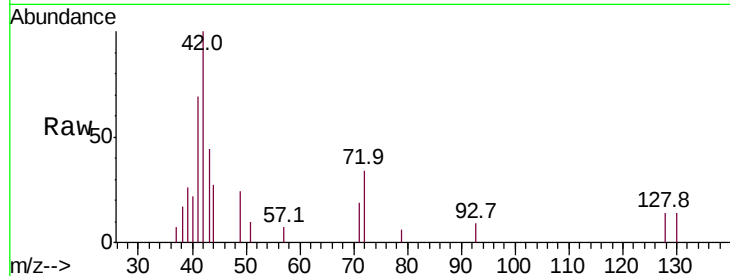
Lab File: ClientSampleId:

Acq: 21 Dec 2021 22:57

Tot Ion:
Ion Ratio
42 100
72 0.
71 0.

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



#44

2,2,4-Trimethylpentane

Concen: 0.209 ppbv

RT: 7.88 min Scan# 1583

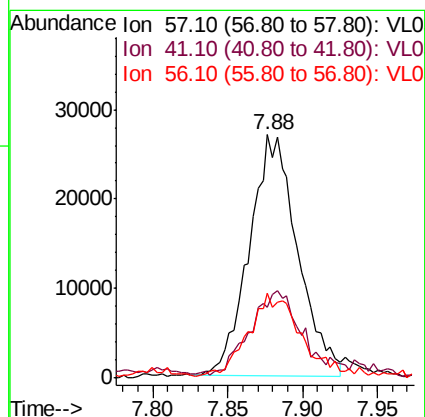
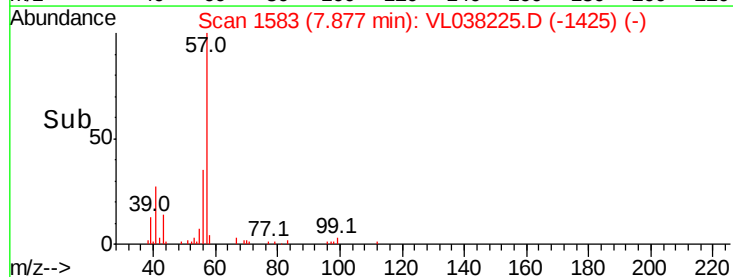
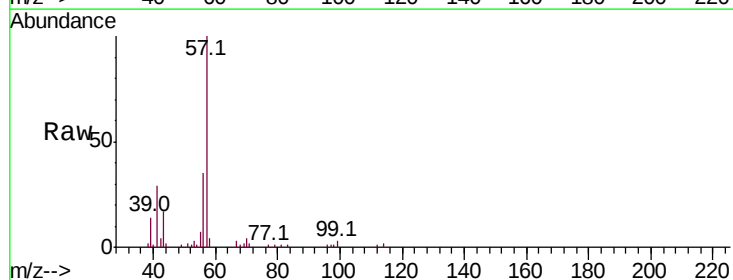
Delta R.T. 0.01 min

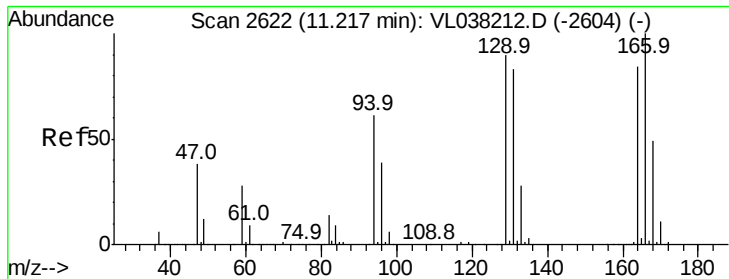
Lab File: VL038225.D

Acq: 21 Dec 2021 22:57

Tgt Ion: 57 Resp: 60751

Ion	Ratio	Lower	Upper
57	100		
41	45.3	24.9	37.3#
56	41.0	24.8	37.2#





#52

Tetrachloroethene

Concen: 0.097 ppbv m

RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Dec 2021 22:57

Tot Ion:1

Ion Rati

164 100

166 113.

129 85.

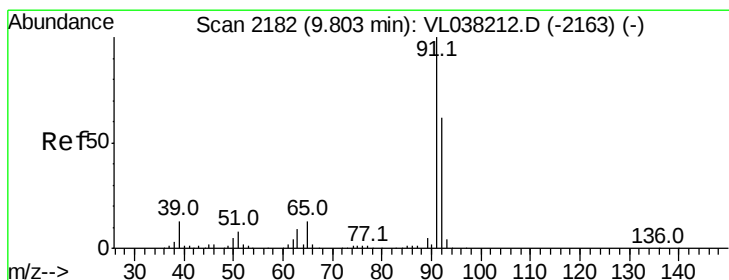
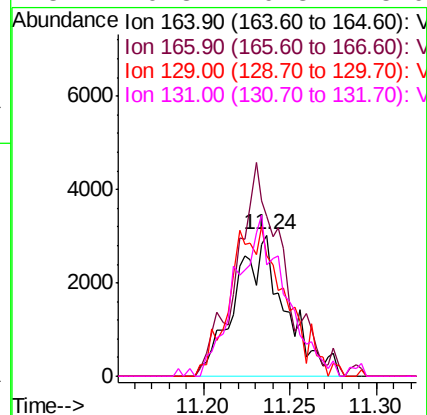
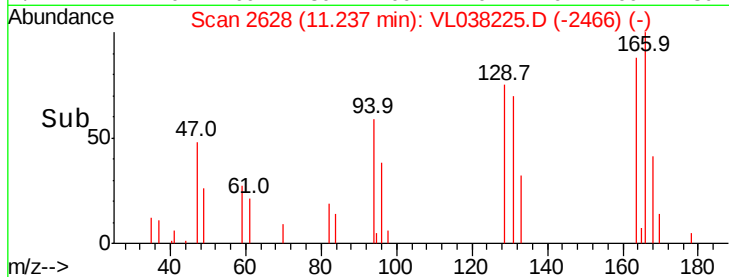
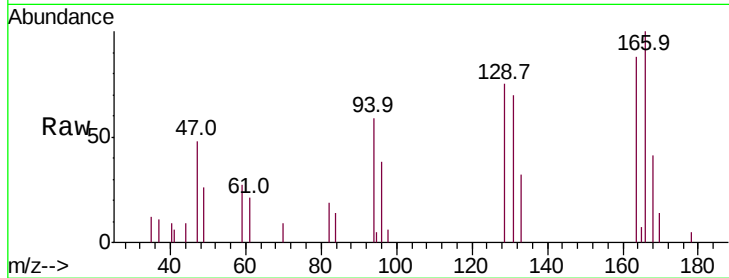
131 79.3 79.3 118.9#

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/22/2021

Supervised By :Mahesh Dadoda 12/29/2021



#53

Toluene

Concen: 0.690 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL038225.D

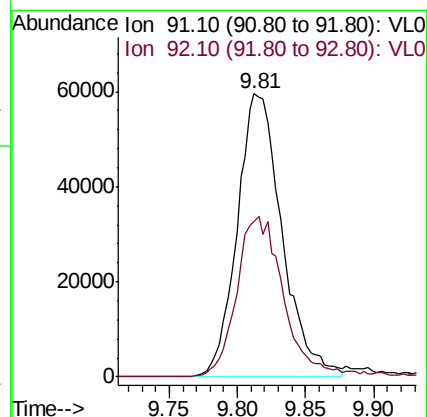
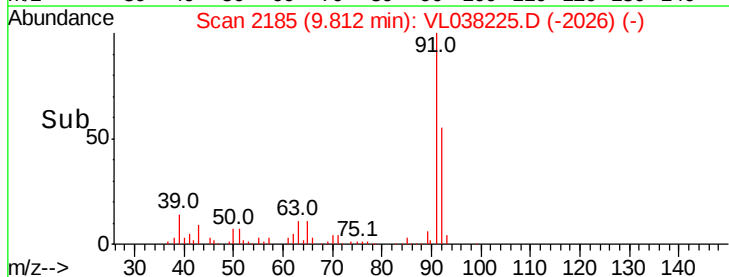
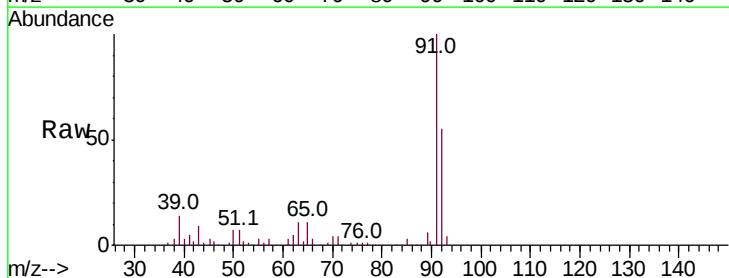
Acq: 21 Dec 2021 22:57

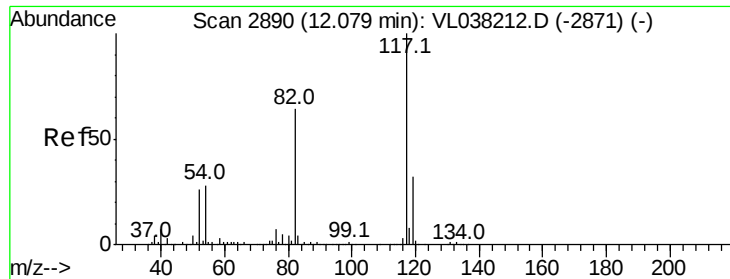
Tgt Ion: 91 Resp: 136110

Ion Ratio Lower Upper

91 100

92 60.4 48.9 73.3



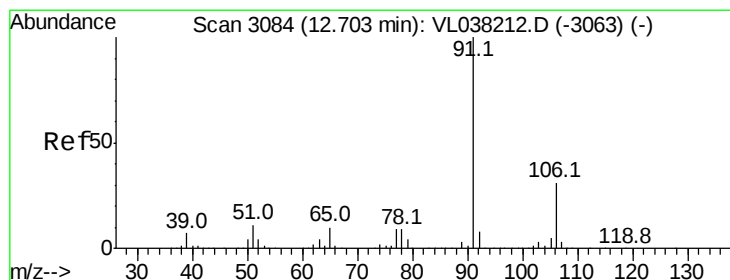
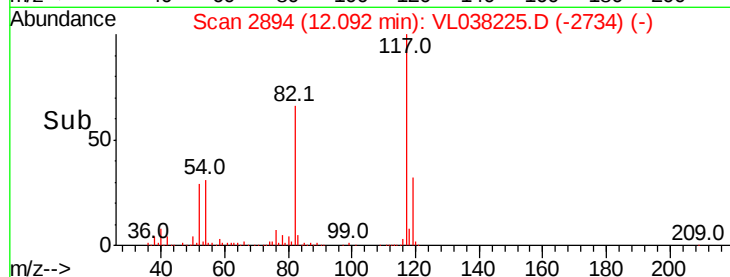
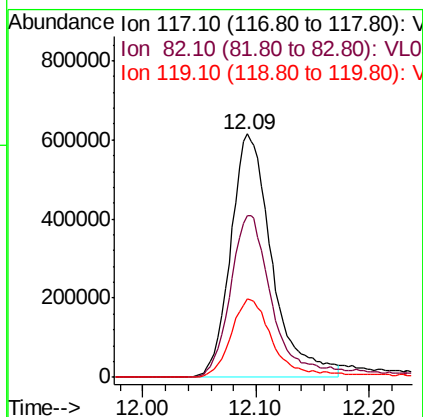
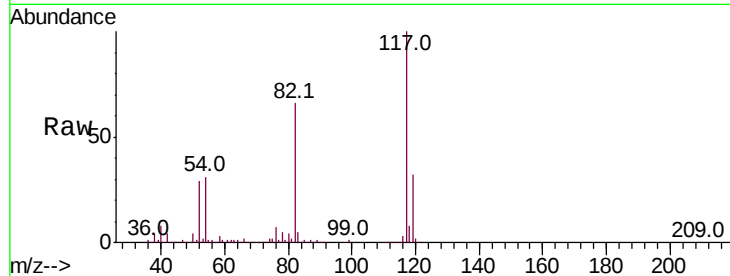


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 21 Dec 2021 22:57

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

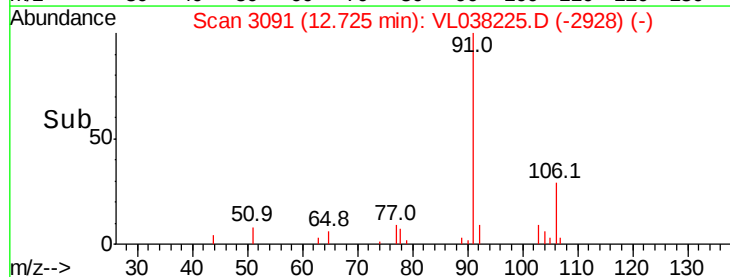
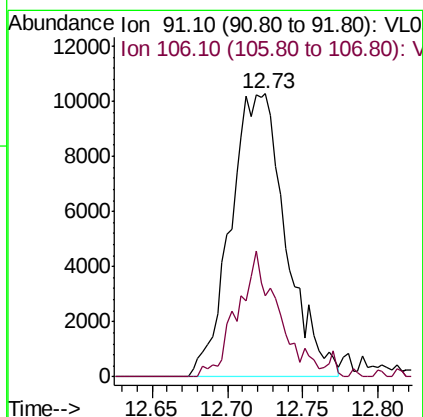
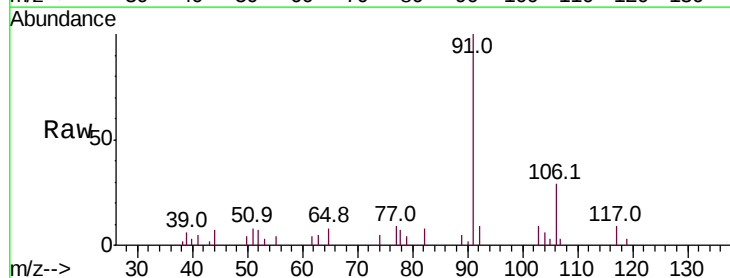
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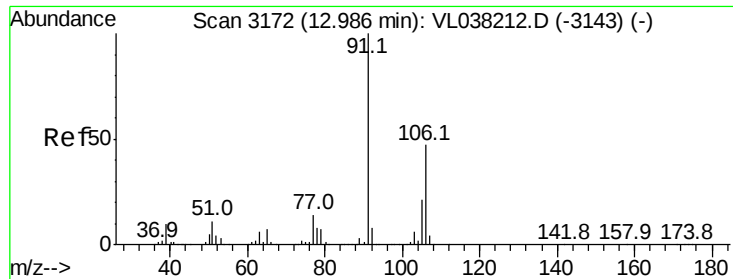
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#58
Ethyl Benzene
Concen: 0.109 ppbv m
RT: 12.73 min Scan# 3091
Delta R.T. 0.02 min
Lab File: VL038225.D
Acq: 21 Dec 2021 22:57

Tgt Ion: 91 Resp: 26201
Ion Ratio Lower Upper
91 100
106 28.5 25.0 37.4



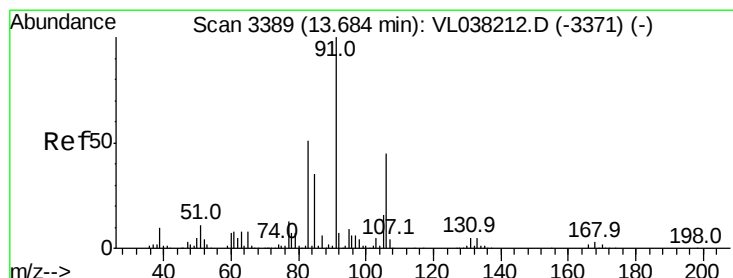
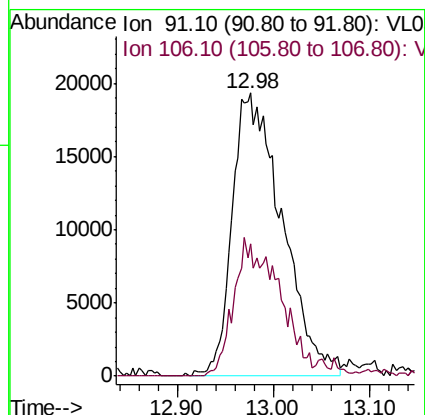
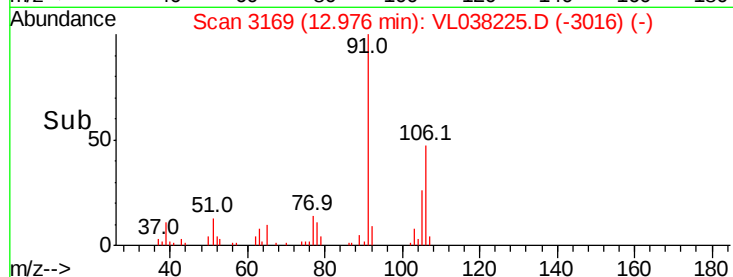
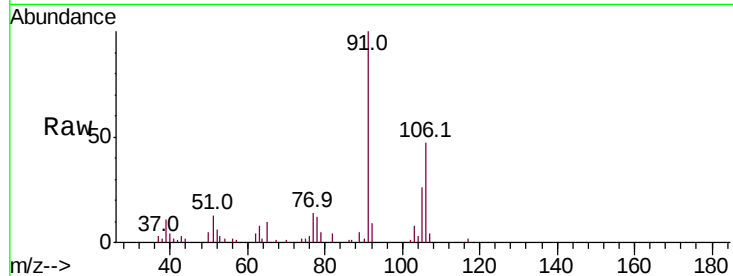


#59
m/p-Xylene
Concen: 0.337 ppbv m
RT: 12.98
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Dec 2021 22:57

Tot Ion:
Ion Ratio
91 100
106 0.

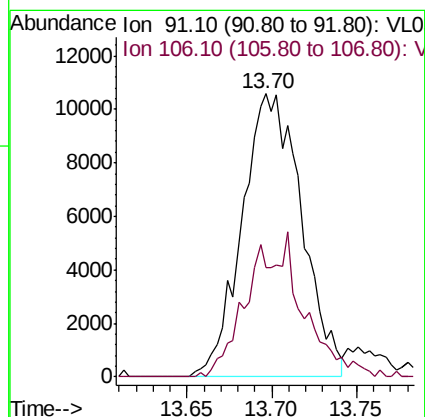
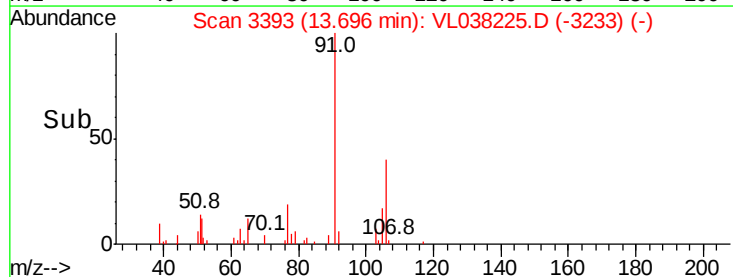
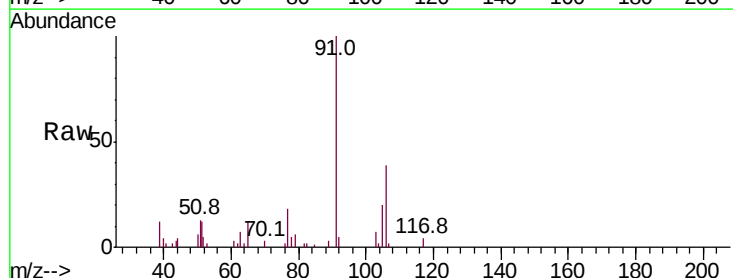
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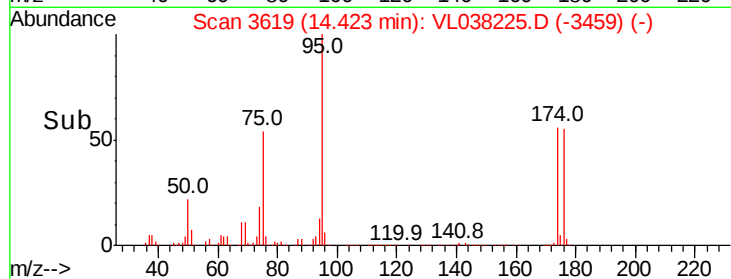
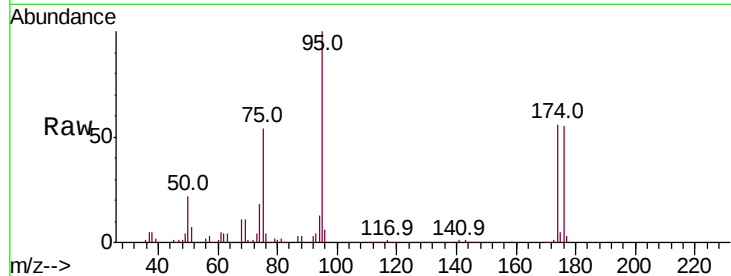
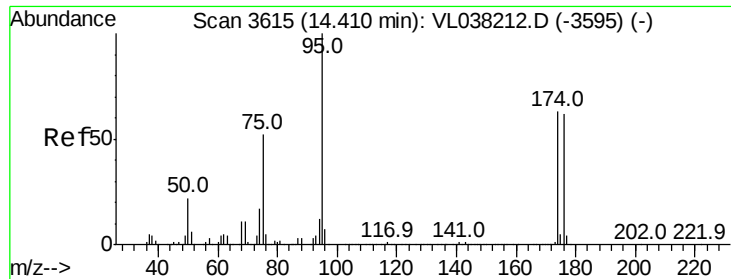
Reviewed By :Amit Patel 12/22/2021
Supervised By :Mahesh Dadoda 12/29/2021



#60
o-Xylene
Concen: 0.136 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL038225.D
Acq: 21 Dec 2021 22:57

Tgt Ion: 91 Resp: 25976
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.324 ppbv
 RT: 14.42
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Dec 2021 22:57

Tot Ion:
 Ion Rati
 95 100
 174 64.
 175 4.

Manual Integrations
 APPROVED

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

