

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038192.D
 Acq On : 16 Dec 2021 16:52
 Operator : SY/AP
 Sample : M5117-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021

Quant Time: Dec 17 06:19:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	959229	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2568740	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2215362	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1655580	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	38128	0.241	ppbv	92
3) Chlorodifluoromethane	3.00	51	52646m	0.261	ppbv	
4) Chloromethane	3.15	50	31522	0.460	ppbv	99
9) Propene	3.03	41	49010	0.661	ppbv #	82
10) Heptane	8.12	43	19453m	0.106	ppbv	
11) Trichlorofluoromethane	3.95	101	29971	0.199	ppbv	99
13) Ethanol	3.62	45	55947m	7.804	ppbv	
15) Acetone	3.86	43	480976	5.783	ppbv	98
19) Isopropyl Alcohol	3.99	45	64004	1.065	ppbv #	81
20) Methylene Chloride	4.35	84	343040	7.364	ppbv	95
26) Hexane	5.69	57	370504	2.781	ppbv #	46
34) 2-Butanone	5.25	43	119435m	1.153	ppbv	
35) Carbon Tetrachloride	7.01	117	9084m	0.050	ppbv	
36) Benzene	6.89	78	49576	0.193	ppbv	97
41) Tetrahydrofuran	6.07	42	50410m	0.784	ppbv	
53) Toluene	9.81	91	190947	0.648	ppbv	95
59) m/p-Xylene	12.97	91	58622m	0.190	ppbv	

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

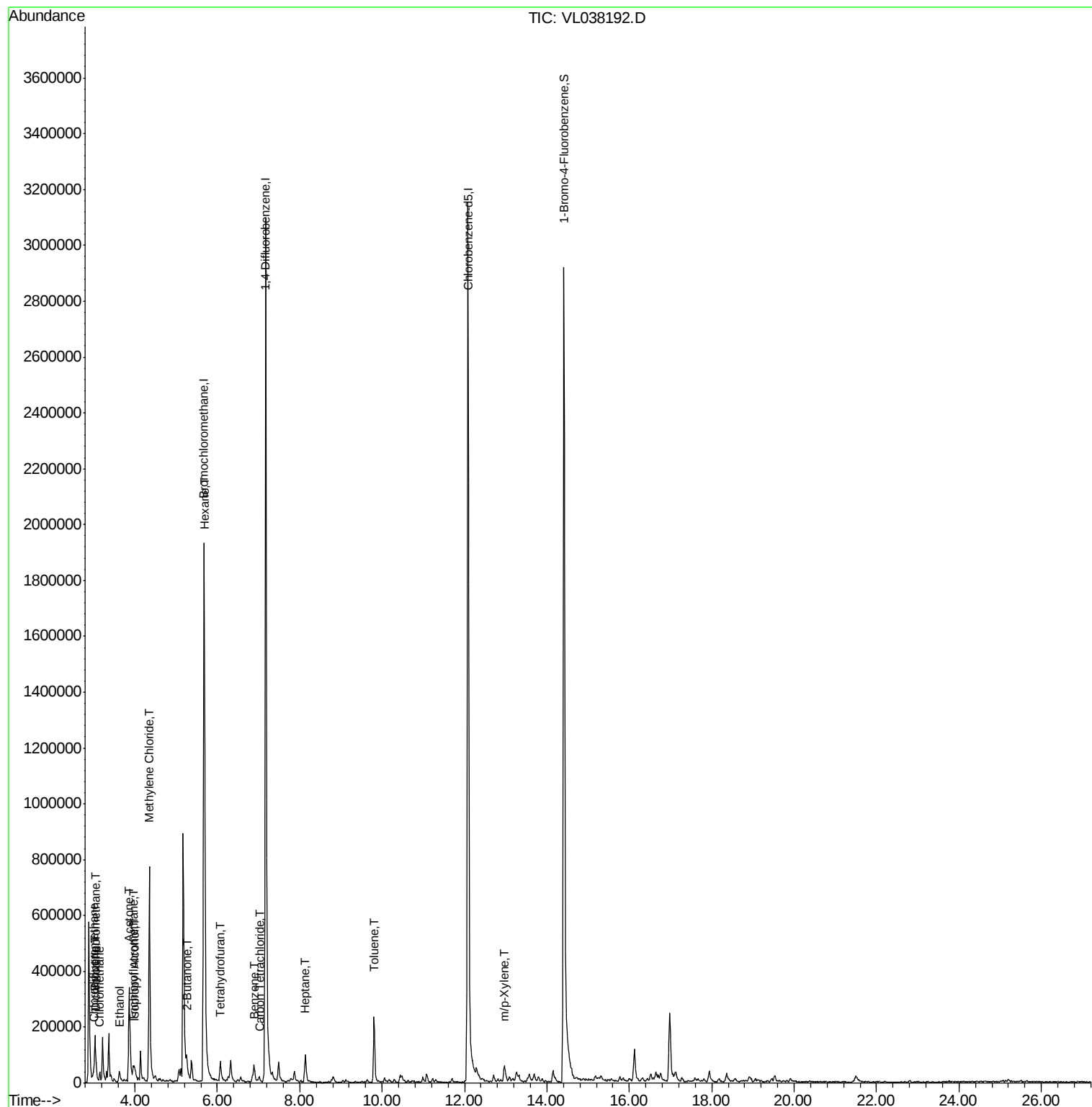
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
Data File : VL038192.D
Acq On : 16 Dec 2021 16:52
Operator : SY/AP
Sample : M5117-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

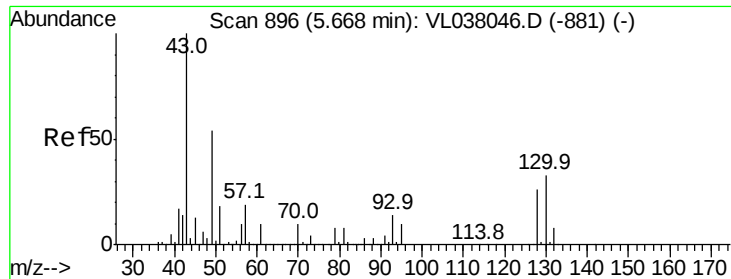
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Dec 17 06:19:37 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 12/20/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 16:52

Tot Ion:

Ion Ratio

49 100

128 47.

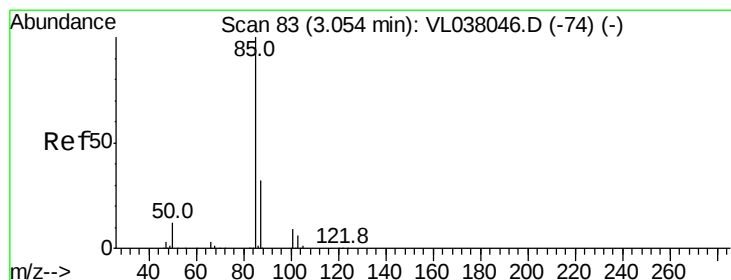
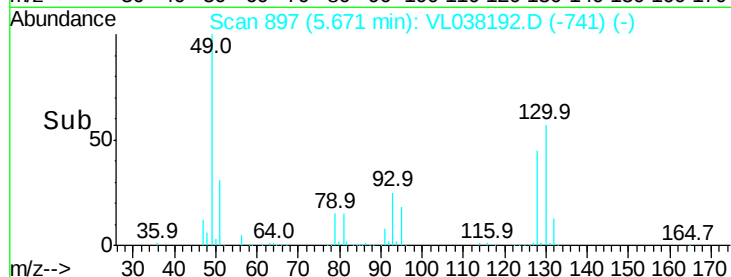
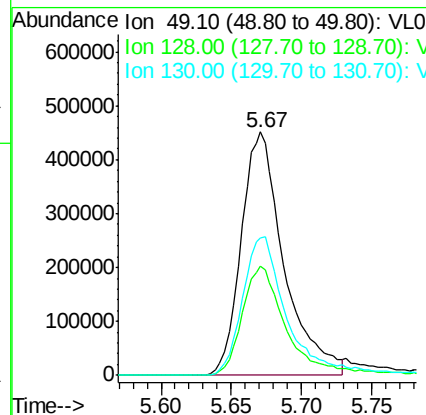
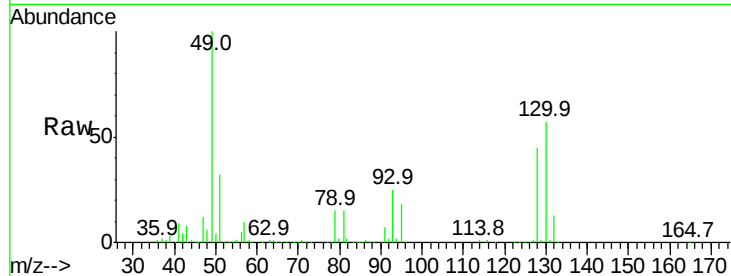
130 61.

Manual Integrations

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Supervised By :Mahesh Dadoda 12/20/2021



#2

Dichlorodifluoromethane

Concen: 0.241 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL038192.D

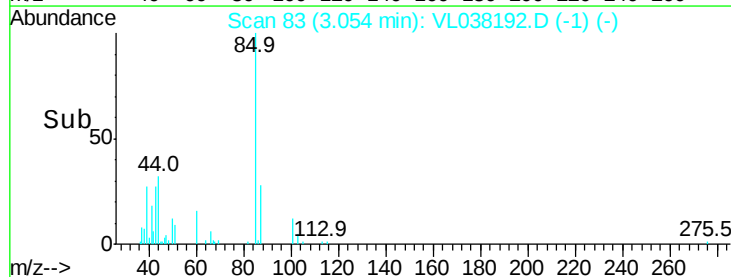
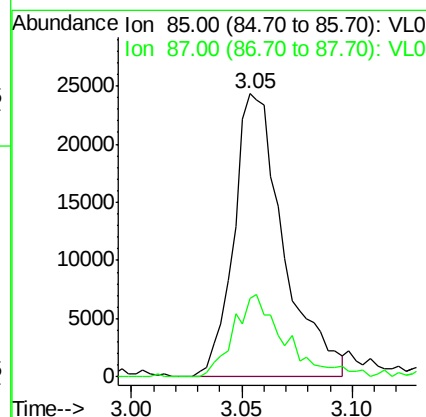
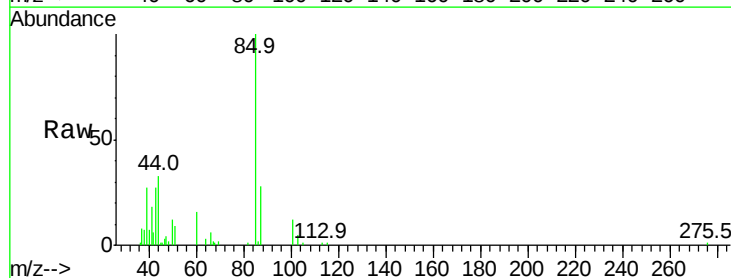
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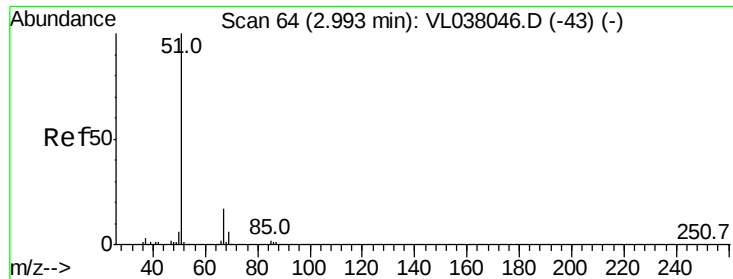
Tgt Ion: 85 Resp: 38128

Ion Ratio Lower Upper

85 100

87 27.9 25.8 38.6



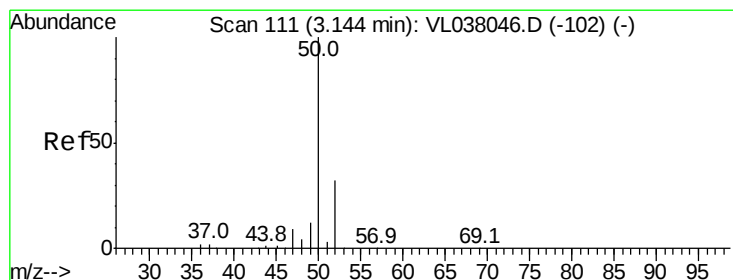
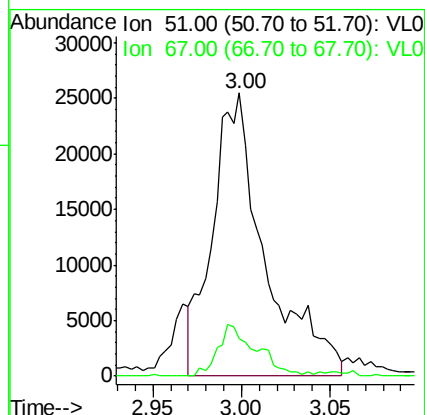
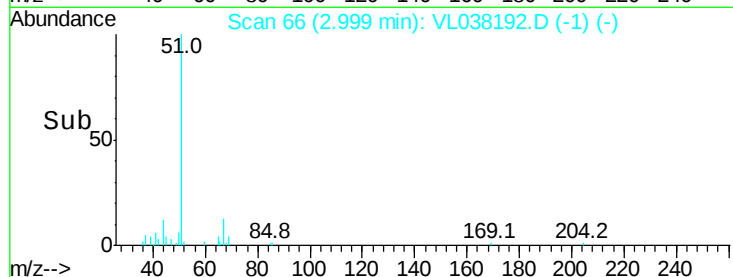
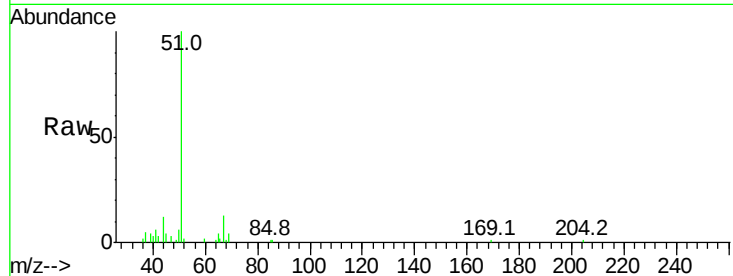


#3
Chlorodifluoromethane
Concen: 0.261 ppbv m
RT: 3.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 16:52

Tot Ion:
Ion Ratio
51 100
67 13.

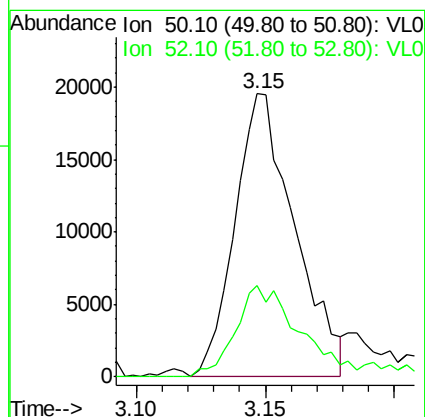
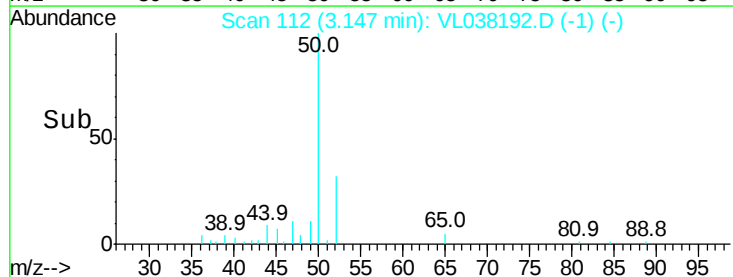
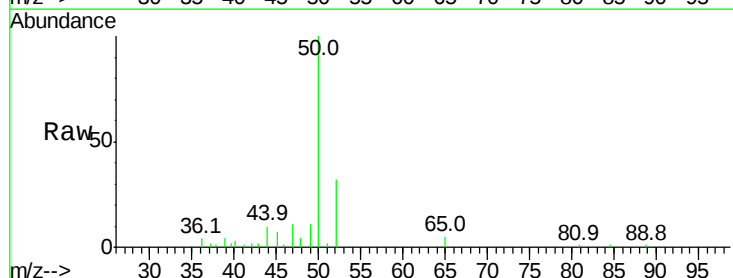
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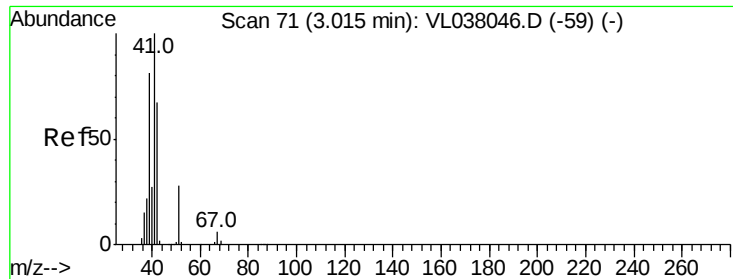
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#4
Chloromethane
Concen: 0.460 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.00 min
Lab File: VL038192.D
Acq: 16 Dec 2021 16:52

Tgt Ion: 50 Resp: 31522
Ion Ratio Lower Upper
50 100
52 32.1 25.4 38.0



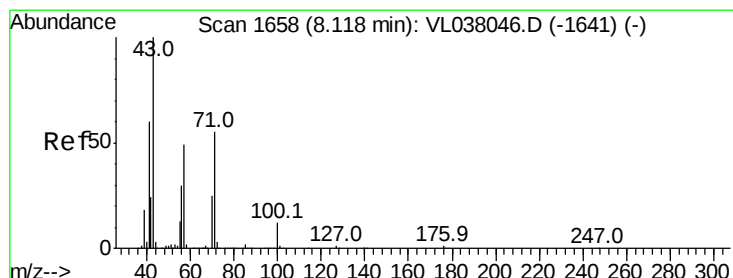
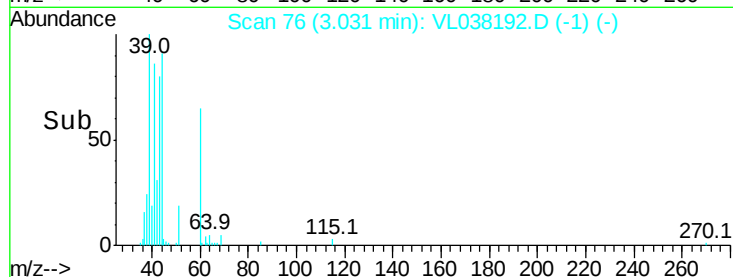
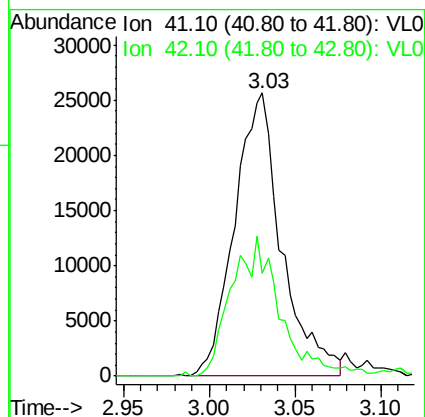
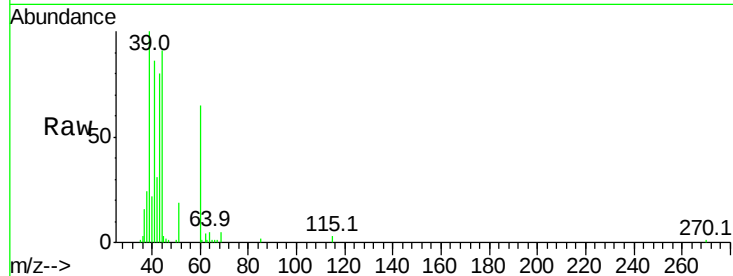


#9
 Propene
 Concen: 0.661 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 16:52

Tot Ion:
 Ion Ratio
 41 100
 42 52.

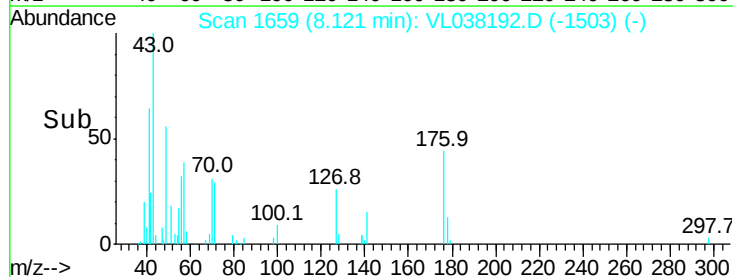
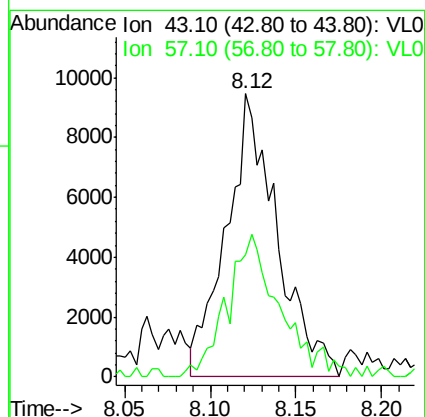
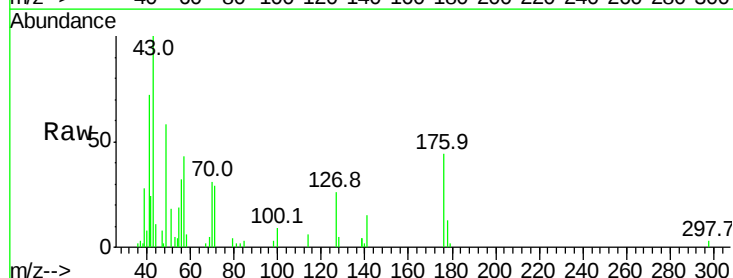
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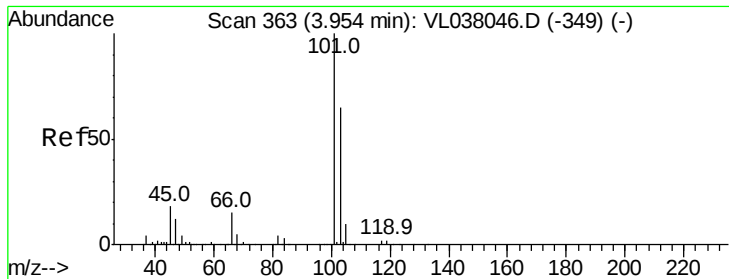
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#10
 Heptane
 Concen: 0.106 ppbv m
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VL038192.D
 Acq: 16 Dec 2021 16:52

Tgt Ion: 43 Resp: 19453
 Ion Ratio Lower Upper
 43 100
 57 52.6 40.4 60.6



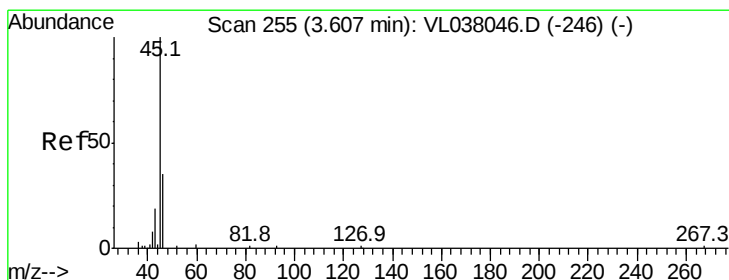
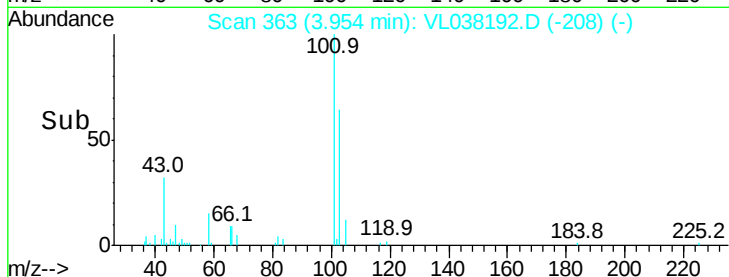
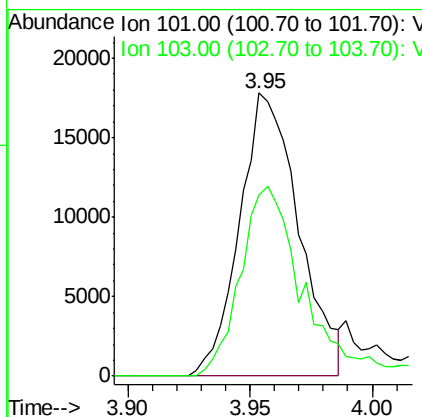
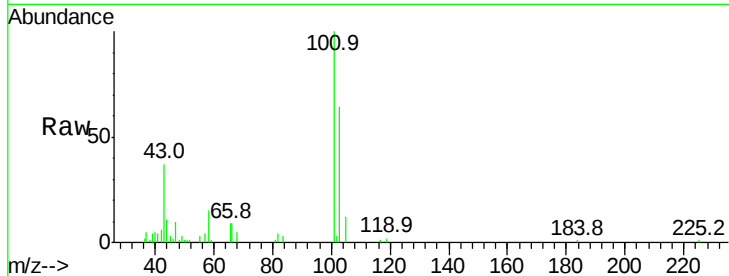


#11
 Trichlorofluoromethane
 Concen: 0.199 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 16:52

Tot Ion:1
 Ion Rati
 101 100
 103 63.

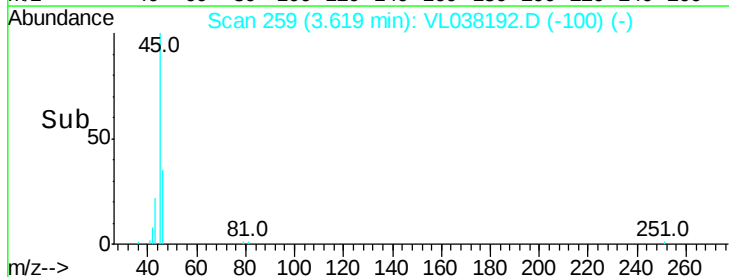
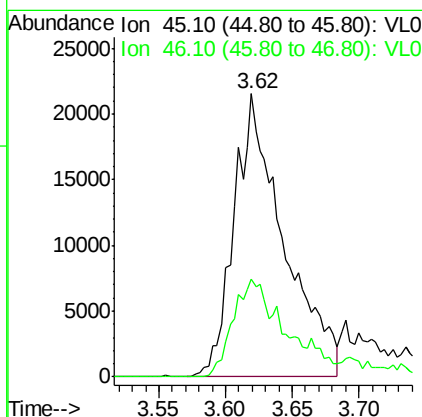
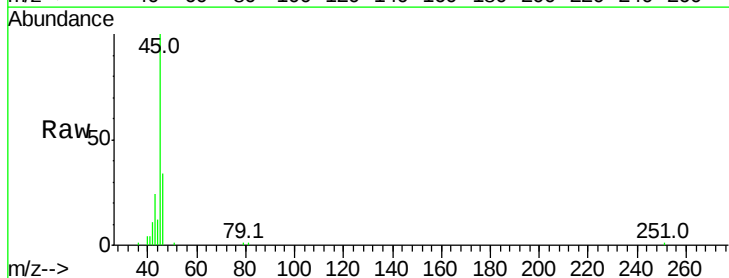
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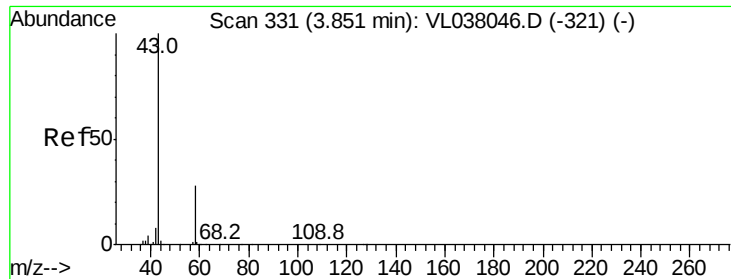
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#13
 Ethanol
 Concen: 7.804 ppbv m
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL038192.D
 Acq: 16 Dec 2021 16:52

Tgt Ion: 45 Resp: 55947
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.6 70.2#



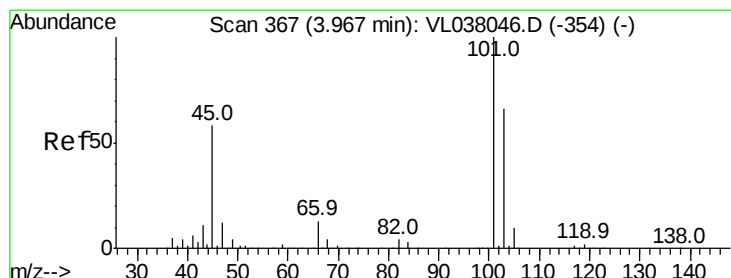
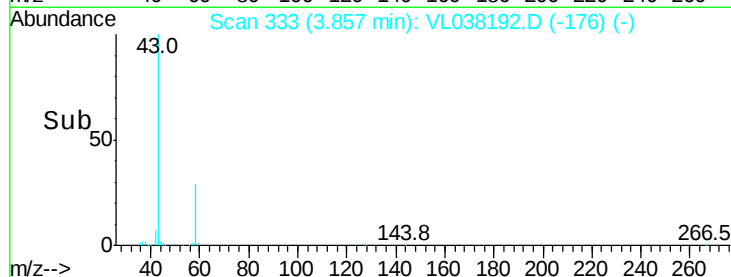
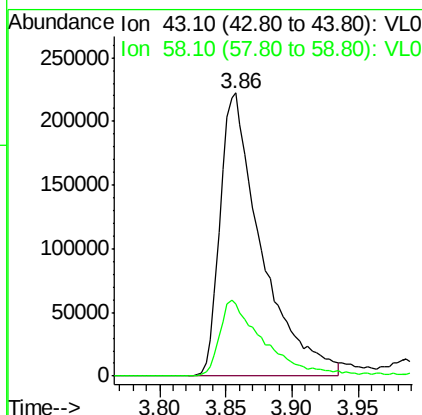
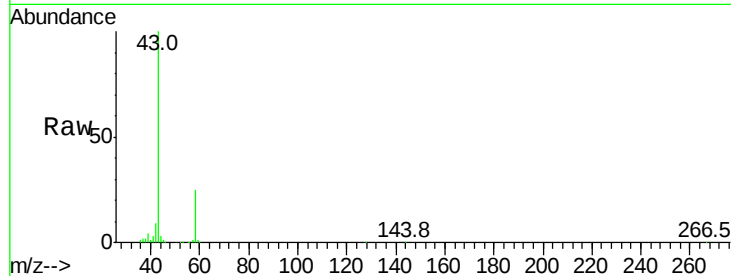


#15
Acetone
Concen: 5.783 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 16:52

Tot Ion:
Ion Ratio
43 100
58 29.

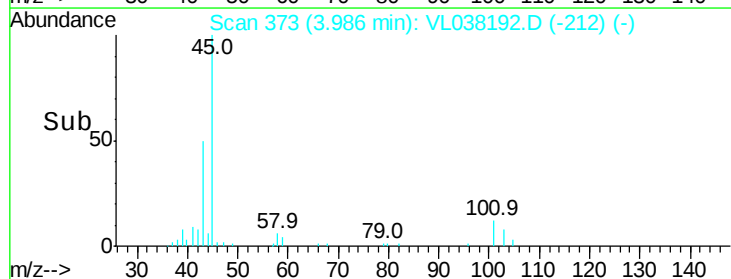
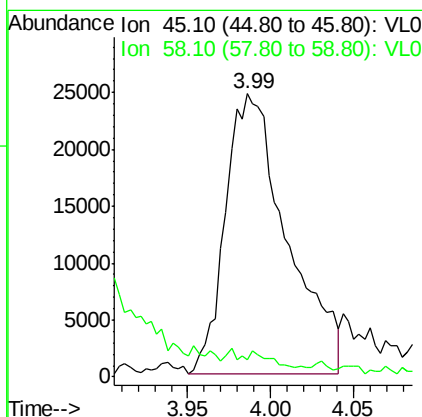
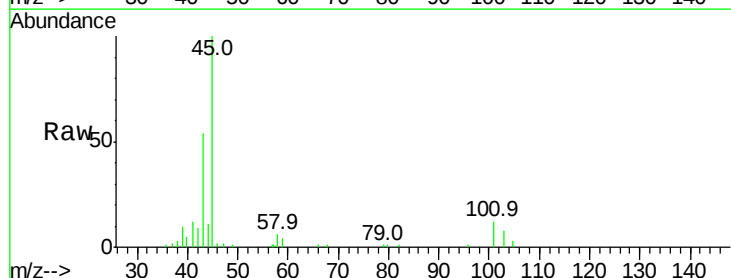
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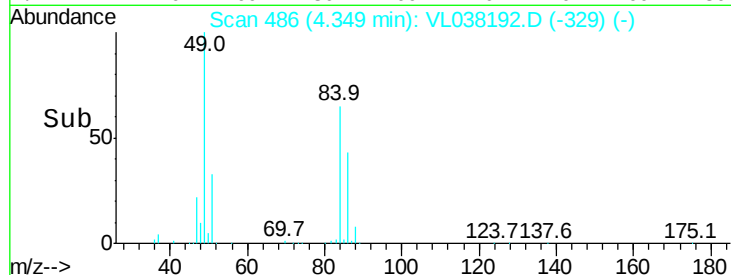
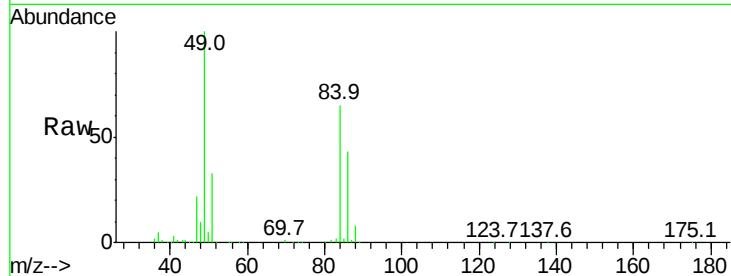
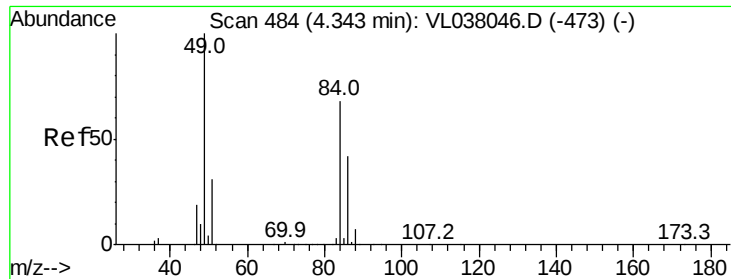
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#19
Isopropyl Alcohol
Concen: 1.065 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL038192.D
Acq: 16 Dec 2021 16:52

Tgt Ion: 45 Resp: 64004
Ion Ratio Lower Upper
45 100
58 8.8 1.4 2.0#



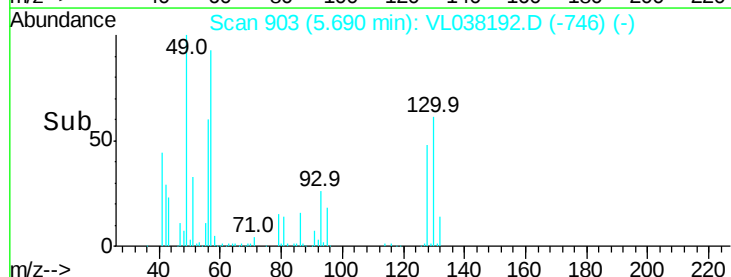
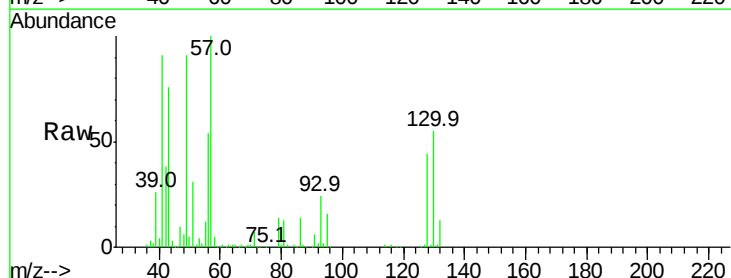
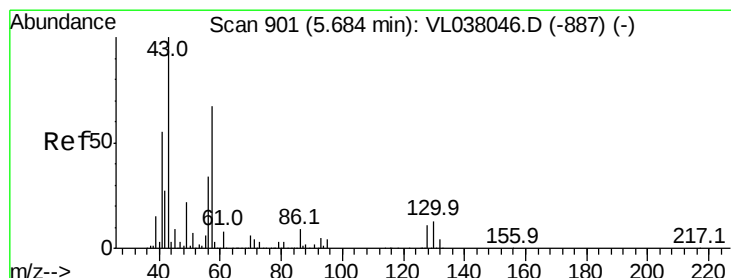
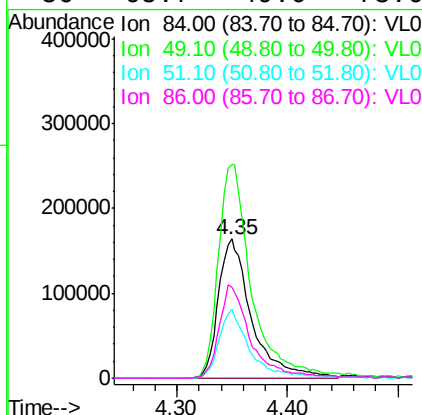


#20
Methvlene Chloride
Concen: 7.364 ppbv
RT: 4.35
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 16 Dec 2021 16:52

Tot Ion:
Ion Ratio
84 100
49 152.
51 49.
86 65.7 49.0 73.6

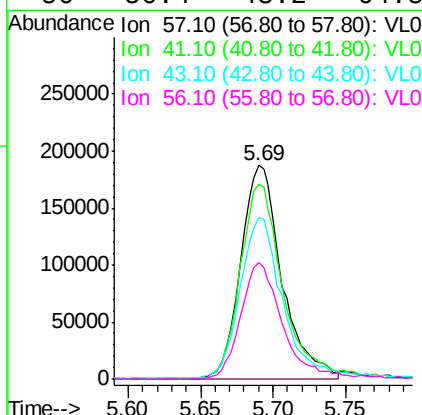
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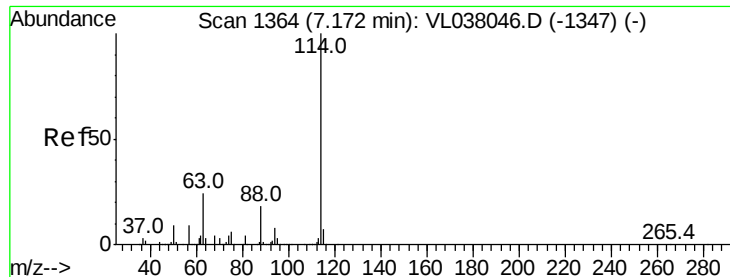
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#26
Hexane
Concen: 2.781 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038192.D
Acq: 16 Dec 2021 16:52

Tgt Ion: 57 Resp: 370504
Ion Ratio Lower Upper
57 100
41 95.7 71.4 107.2
43 80.4 174.6 261.8#
56 56.4 43.2 64.8



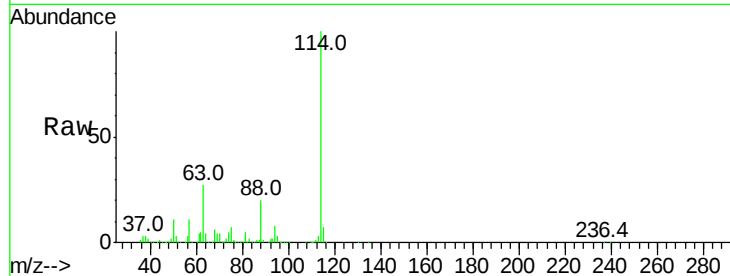


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 16:52

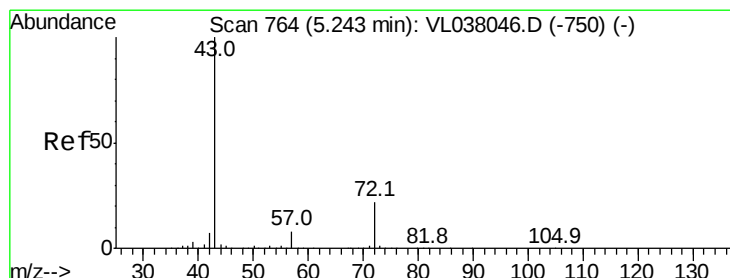
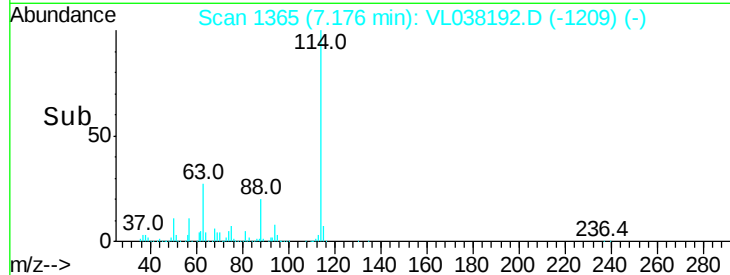
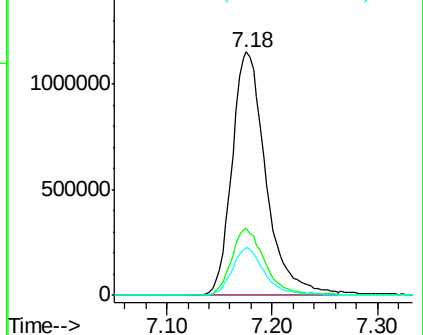
Tot Ion: 1
 Ion Ratio
 114 100
 63 27.
 88 18.

Manual Integrations
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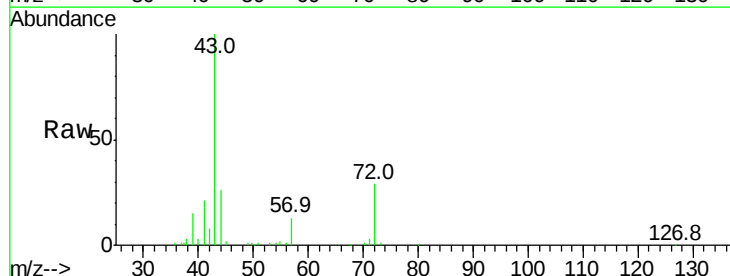


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

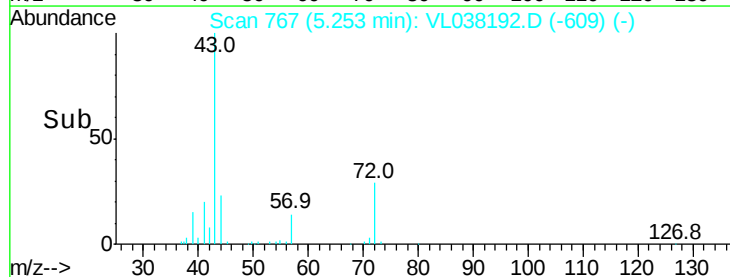
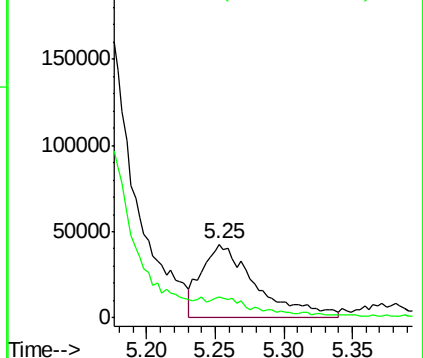


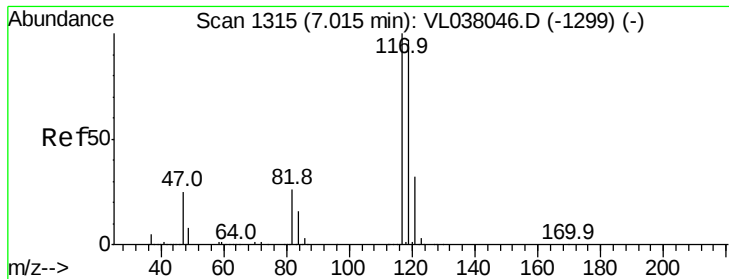
#34
 2-Butanone
 Concen: 1.153 ppbv m
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL038192.D
 Acq: 16 Dec 2021 16:52

Tgt Ion: 43 Resp: 119435
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.050 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 16:52

Tot Ion:1

Ion Ratio

117 100

119 102.

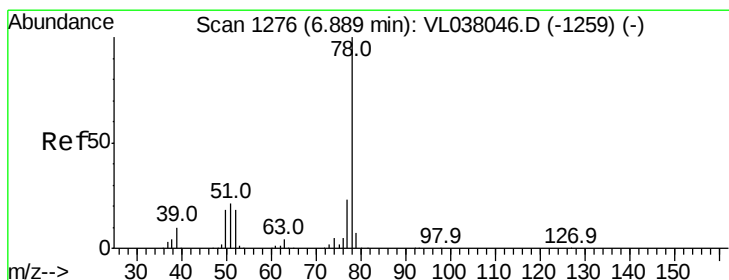
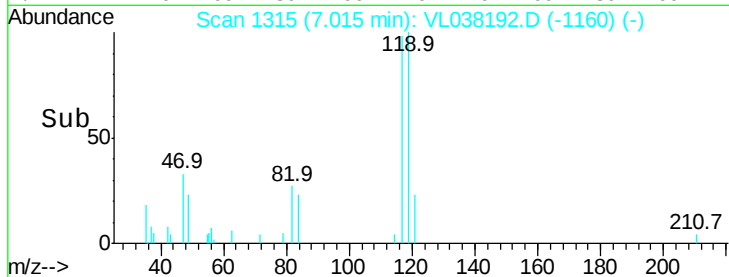
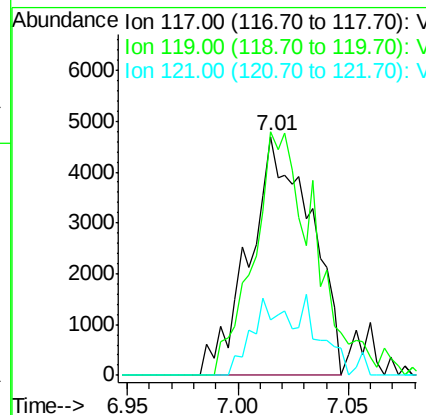
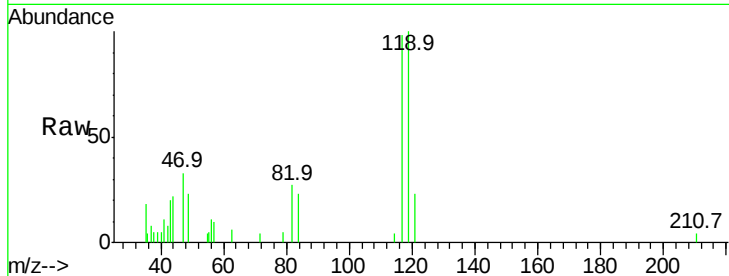
121 23.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#36

Benzene

Concen: 0.193 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL038192.D

Acq: 16 Dec 2021 16:52

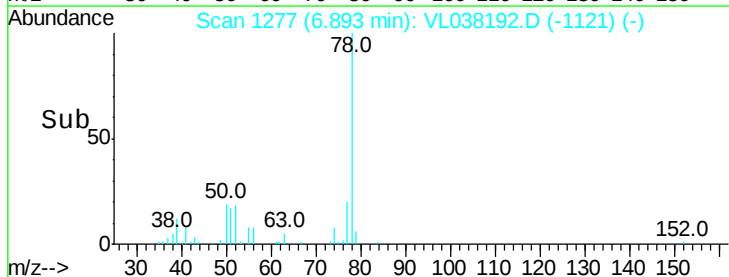
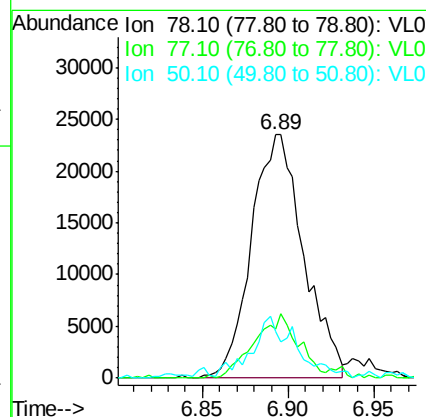
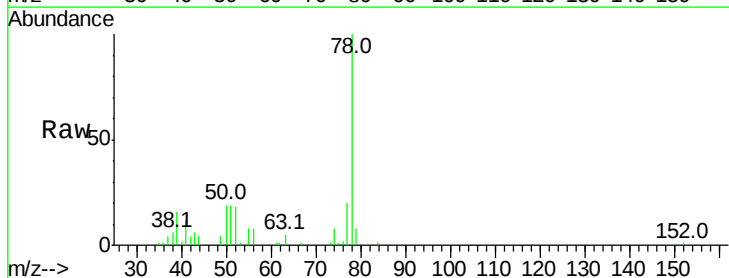
Tgt Ion: 78 Resp: 49576

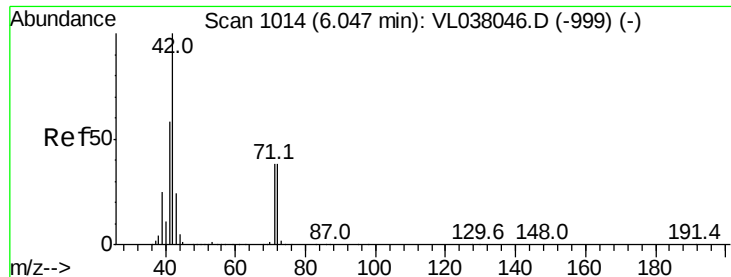
Ion Ratio Lower Upper

78 100

77 20.1 18.2 27.4

50 18.6 14.7 22.1





#41

Tetrahydrofuran

Concen: 0.784 ppbv m

RT: 6.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 16:52

Tot Ion:

Ion Ratio

42 100

72 38.

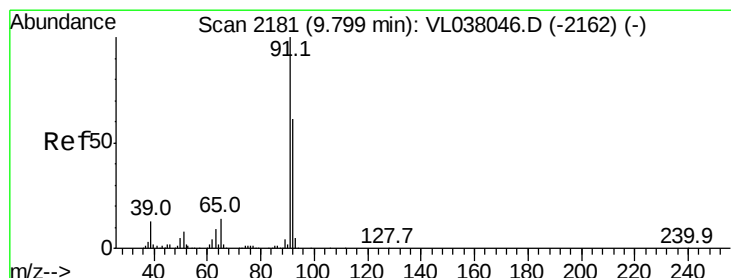
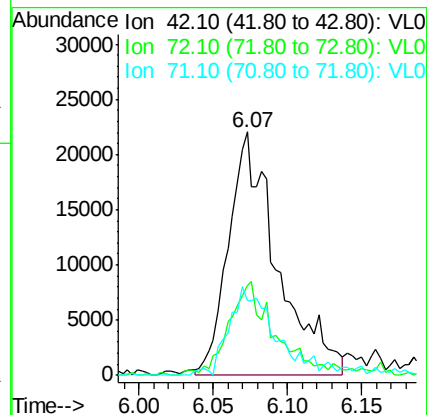
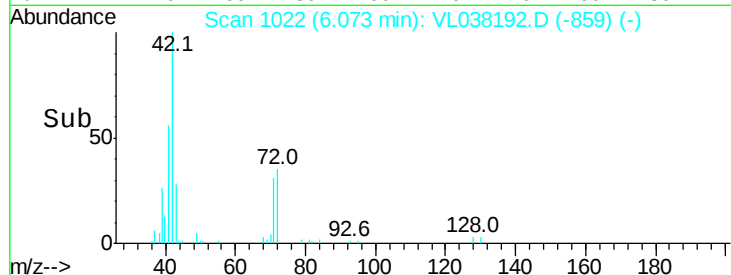
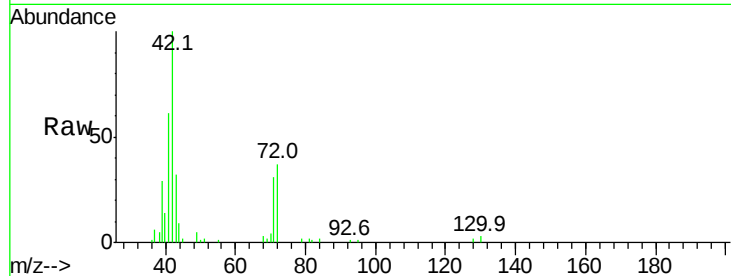
71 37.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#53

Toluene

Concen: 0.648 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL038192.D

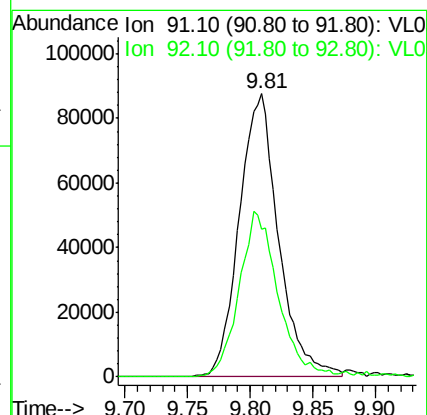
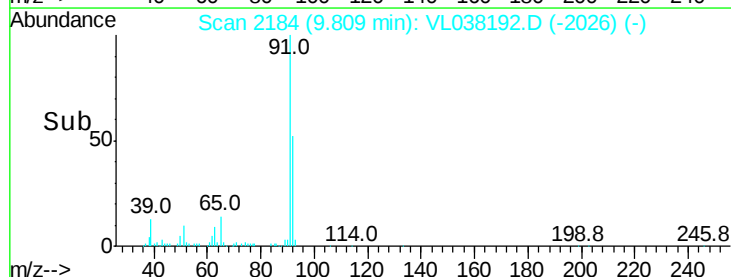
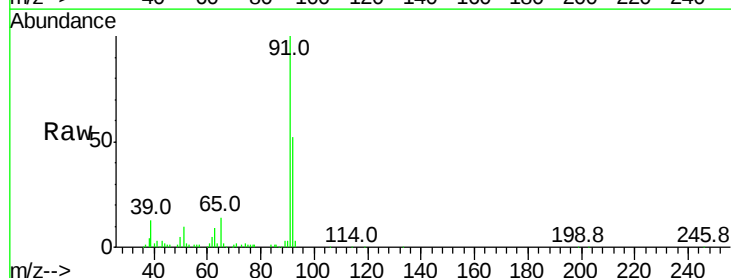
Acq: 16 Dec 2021 16:52

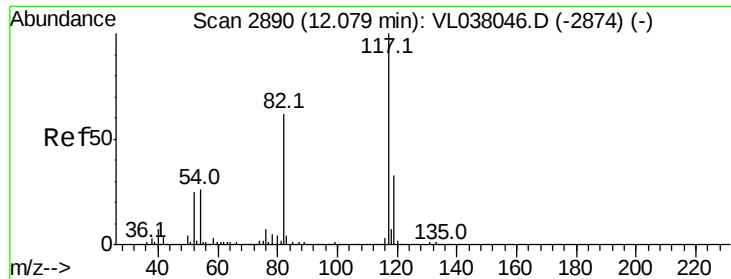
Tgt Ion: 91 Resp: 190947

Ion Ratio Lower Upper

91 100

92 58.3 49.7 74.5



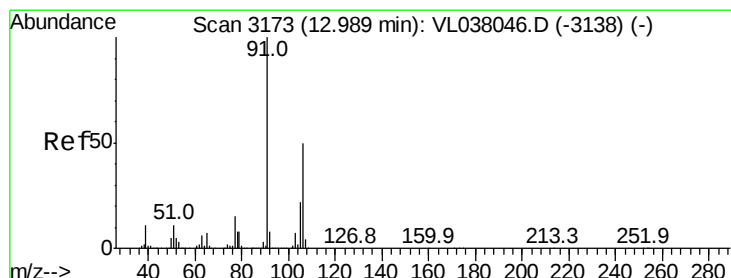
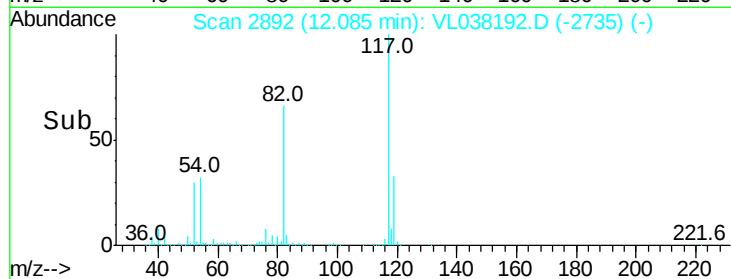
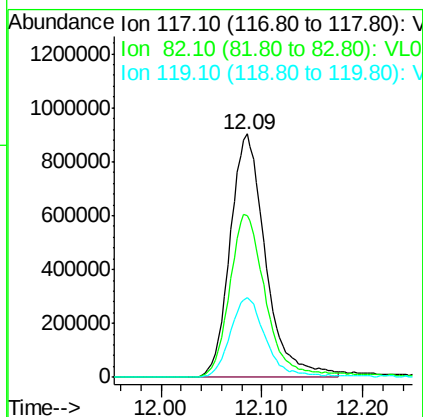
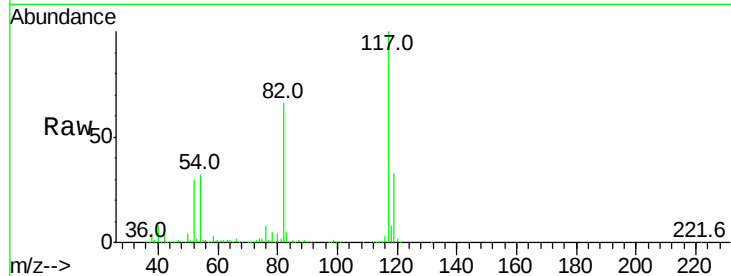


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 16:52

Tot Ion: 1
Ion Ratio
117 100
82 70.
119 33.

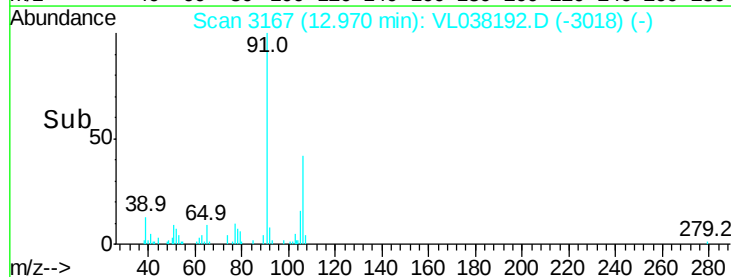
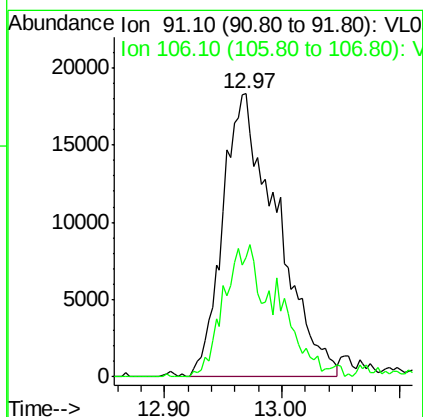
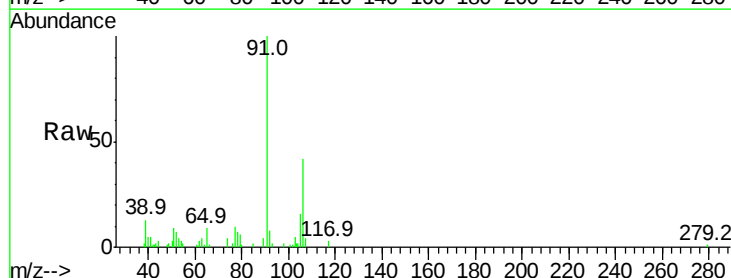
Manual Integrations
APPROVED

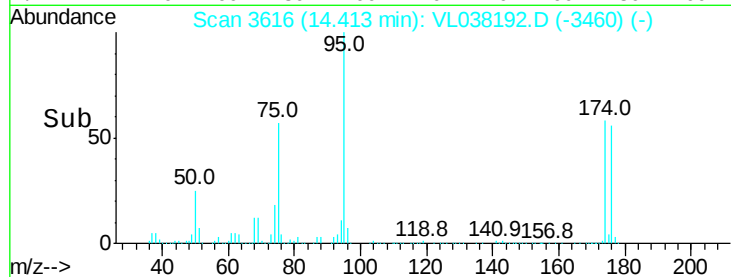
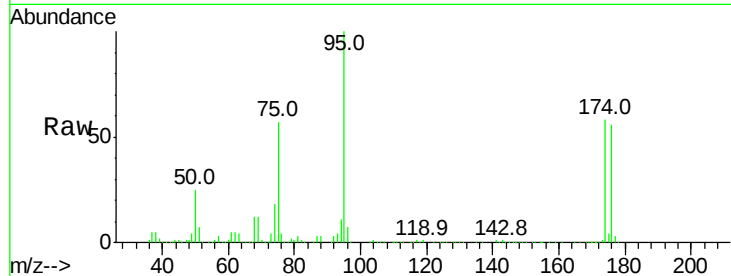
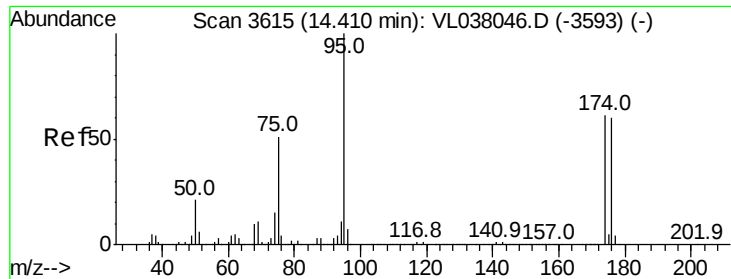
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#59
m/p-Xylene
Concen: 0.190 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.02 min
Lab File: VL038192.D
Acq: 16 Dec 2021 16:52

Tgt Ion: 91 Resp: 58622
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.361 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 18:32

Tot Ion:

Ion Ratio

95 100

174 64.

175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021

