

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038207.D
 Acq On : 17 Dec 2021 2:57
 Operator : SY/AP
 Sample : M5119-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-4DL

Manual Integrations
 APPROVED

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

Quant Time: Dec 18 04:41:10 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	816490	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2497191	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2133714	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1710605	11.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	14942132	110.790	ppbv #	63
3) Chlorodifluoromethane	3.00	51	306485	1.787	ppbv	96
5) Vinyl Chloride	3.27	62	4012m	0.070	ppbv	
9) Propene	3.03	41	2085672m	33.028	ppbv	
10) Heptane	8.13	43	819022	5.248	ppbv	100
13) Ethanol	3.61	45	27007m	4.426	ppbv	
15) Acetone	3.85	43	1013683	14.319	ppbv	92
19) Isopropyl Alcohol	3.98	45	454481	8.885	ppbv #	1
20) Methylene Chloride	4.35	84	162625	4.101	ppbv	99
26) Hexane	5.70	57	123535	1.089	ppbv #	54
34) 2-Butanone	5.25	43	478342m	4.751	ppbv	
36) Benzene	6.90	78	71872	0.289	ppbv	95
43) Methyl Methacrylate	8.02	69	22784m	0.267	ppbv	
53) Toluene	9.81	91	104507	0.365	ppbv	98
58) Ethyl Benzene	12.72	91	3789156	10.744	ppbv	100
59) m/p-Xylene	12.98	91	5706041	19.221	ppbv	93
60) o-Xylene	13.70	91	1340756	4.868	ppbv	99

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

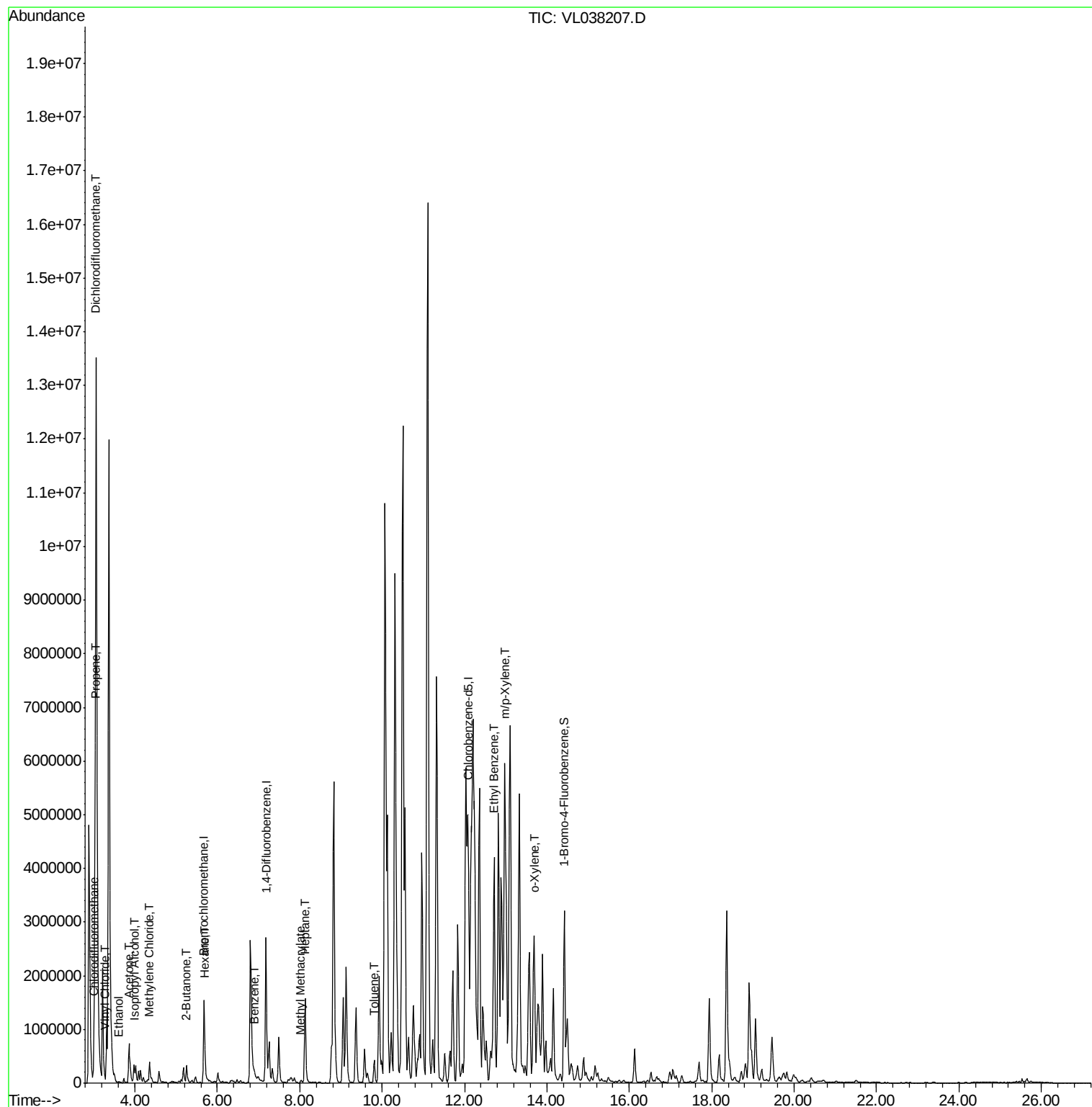
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
Data File : VL038207.D
Acq On : 17 Dec 2021 2:57
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

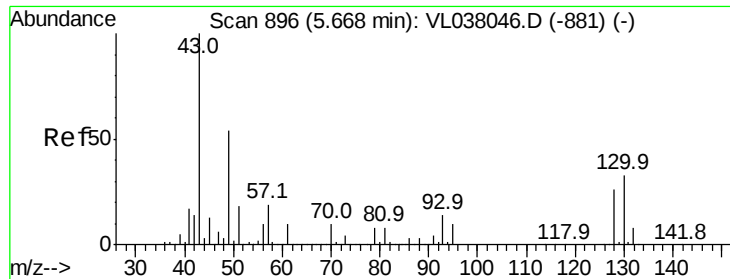
Instrument :
MSVOA_L
ClientSampleId :
SG-4DL

Quant Time: Dec 18 04:41:10 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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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 2:57

Tot Ion:

Ion Ratio

49 100

128 52.

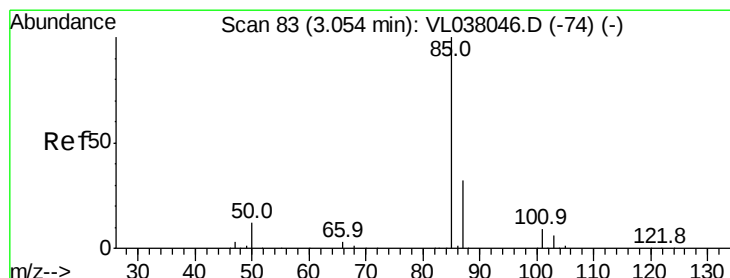
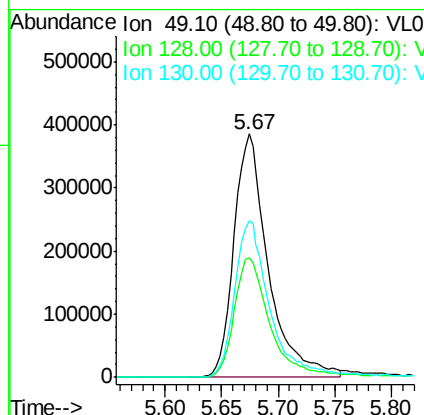
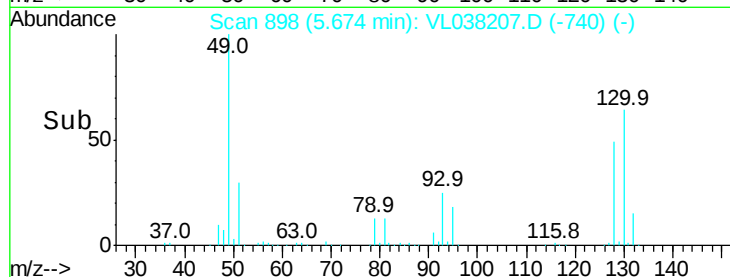
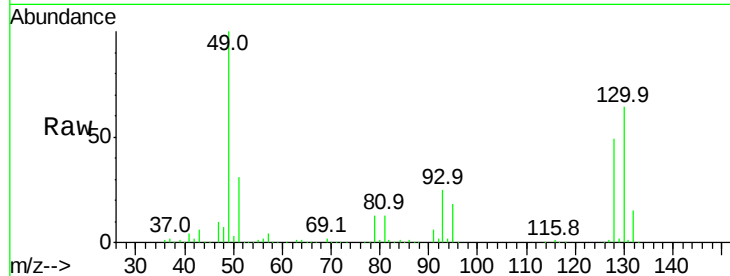
130 67.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#2

Dichlorodifluoromethane

Concen: 110.790 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038207.D

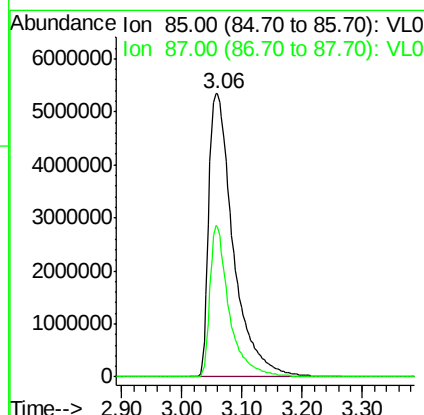
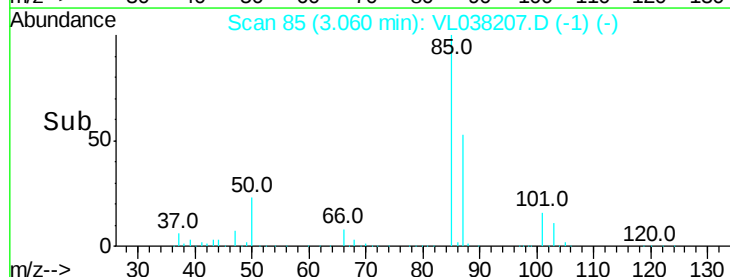
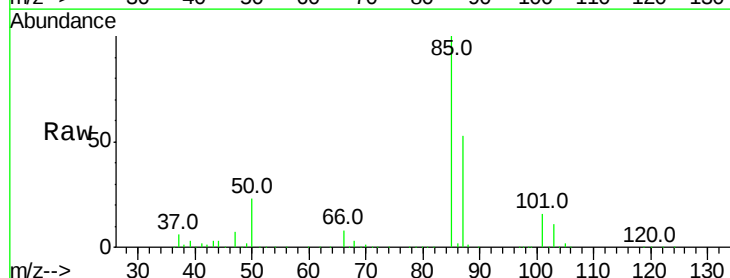
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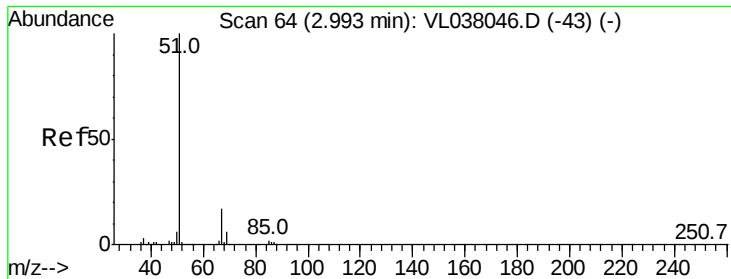
Tgt Ion: 85 Resp:14942132

Ion Ratio Lower Upper

85 100

87 53.1 25.8 38.6#





#3

Chlorodifluoromethane

Concen: 1.787 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 2:57

Tot Ion:

Ion Ratio

51 100

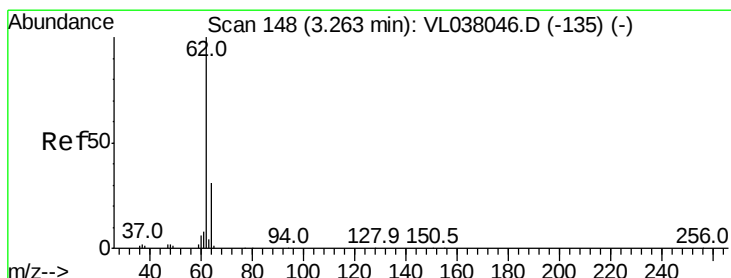
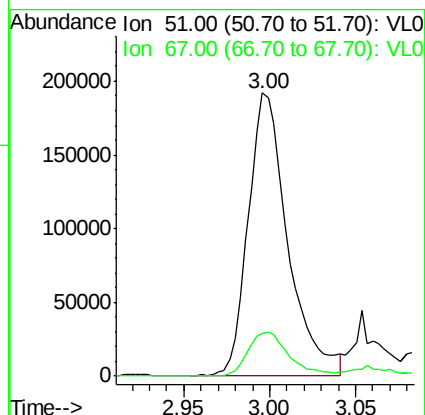
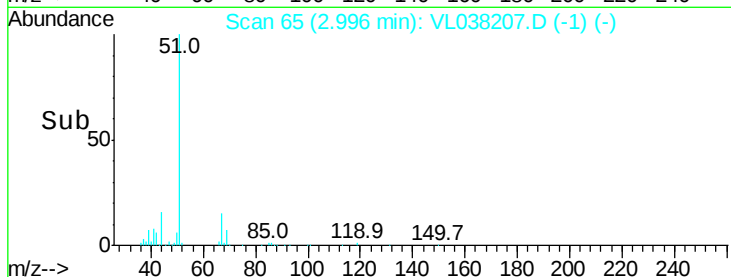
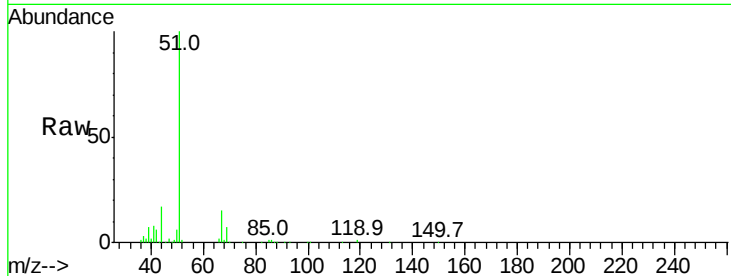
67 15.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#5

Vinyl Chloride

Concen: 0.070 ppbv m

RT: 3.27 min Scan# 151

Delta R.T. 0.01 min

Lab File: VL038207.D

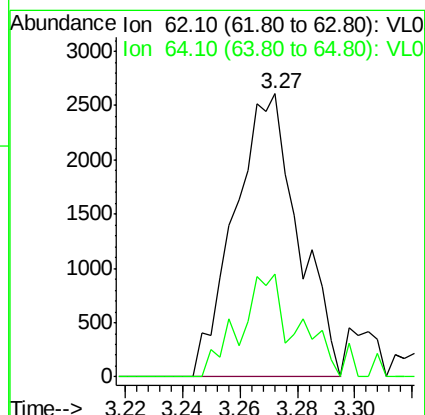
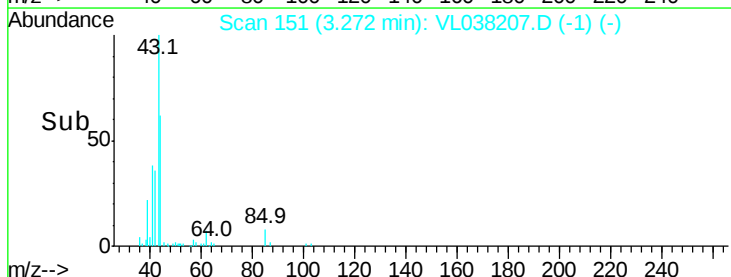
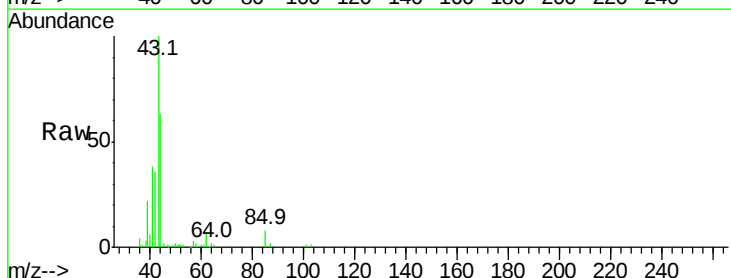
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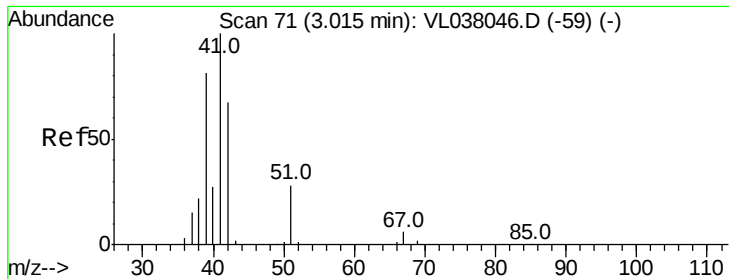
Tgt Ion: 62 Resp: 4012

Ion Ratio Lower Upper

62 100

64 36.5 25.1 37.7





#9

Propene

Concen: 33.028 ppbv m

RT: 3.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 2:57

Tot Ion:

Ion Ratio

41 100

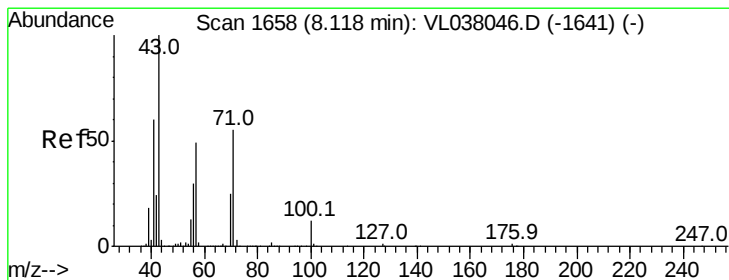
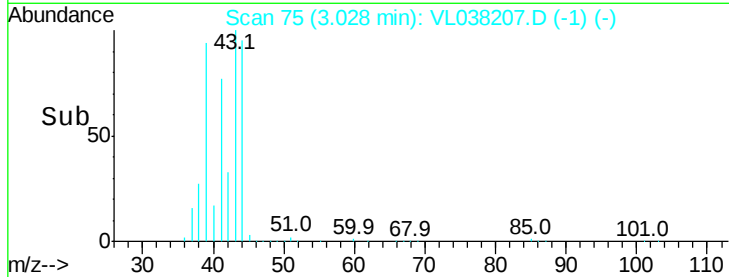
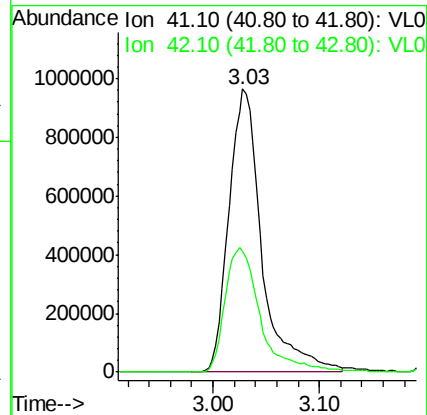
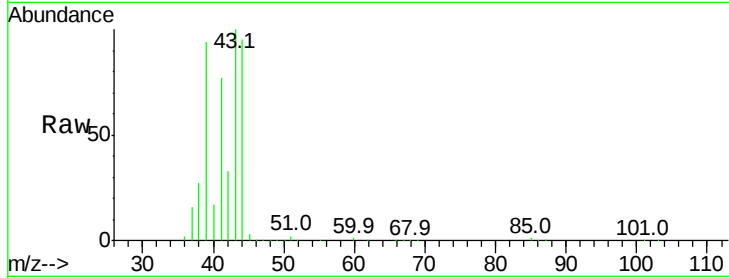
42 23.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#10

Heptane

Concen: 5.248 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VL038207.D

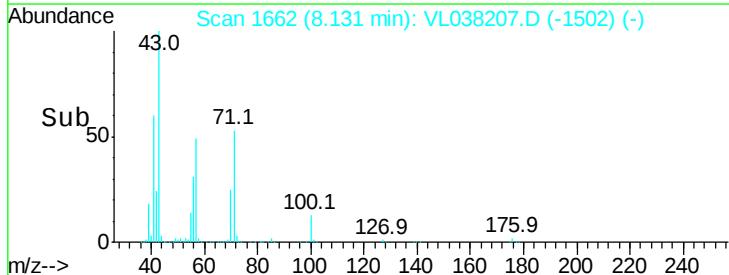
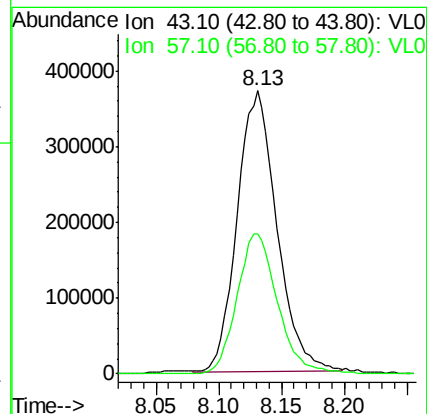
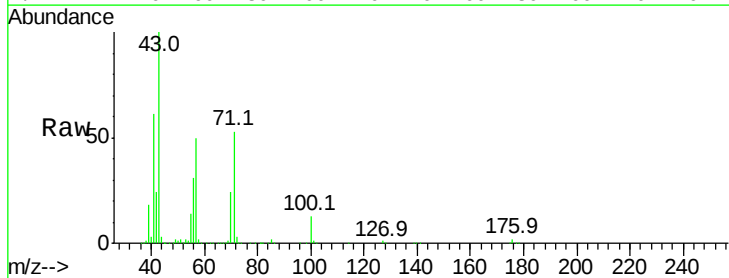
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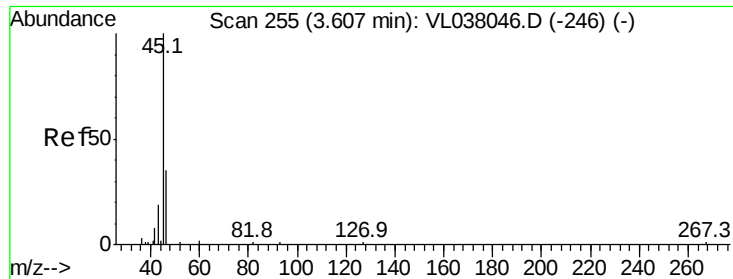
Tgt Ion: 43 Resp: 819022

Ion Ratio Lower Upper

43 100

57 50.7 40.4 60.6



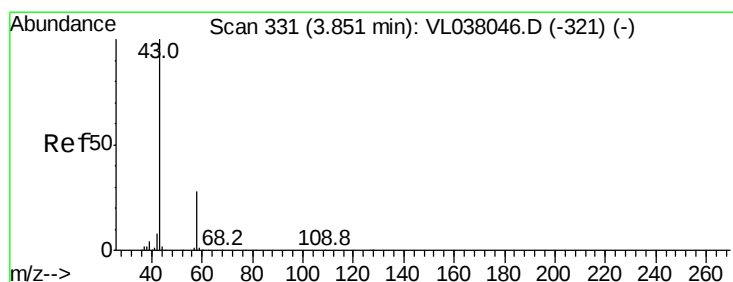
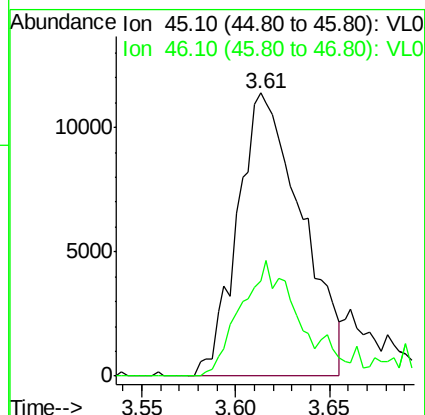
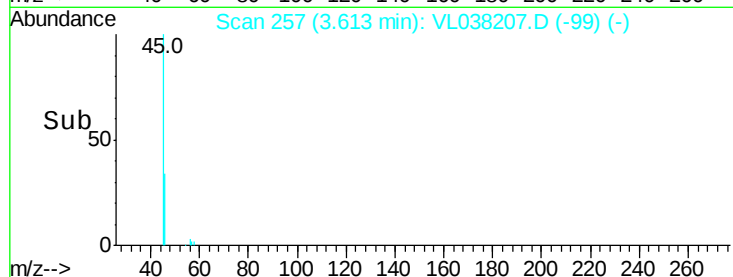
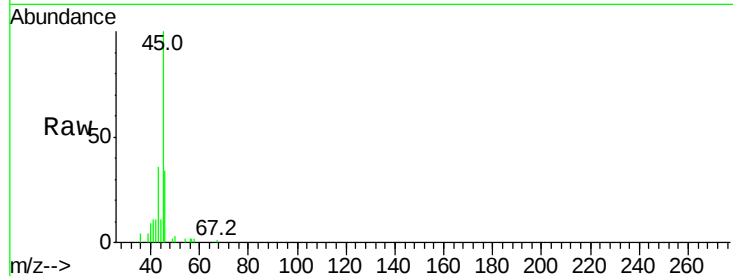


#13
Ethanol
Concen: 4.426 ppbv m
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:57

Tot Ion:
Ion Ratio
45 100
46 38.

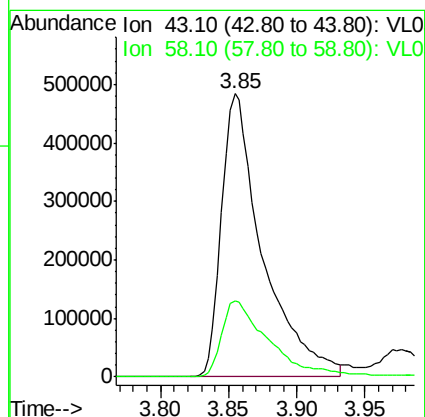
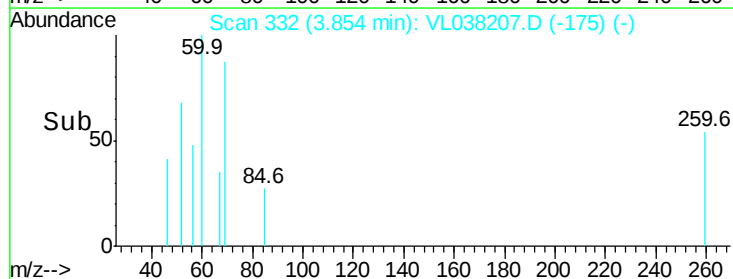
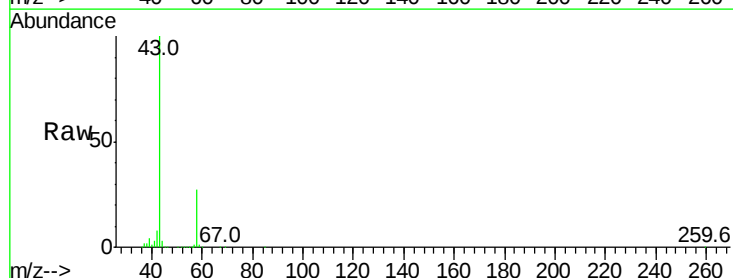
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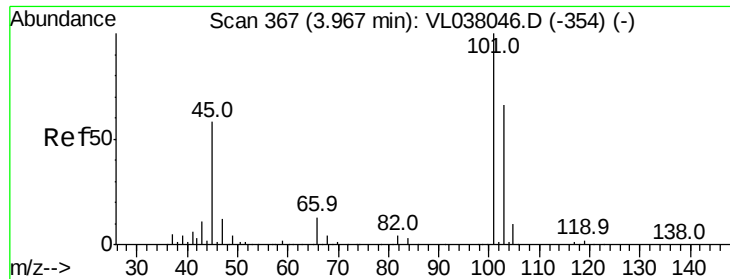
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#15
Acetone
Concen: 14.319 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion: 43 Resp: 1013683
Ion Ratio Lower Upper
43 100
58 32.2 22.4 33.6





#19

Isopropyl Alcohol

Concen: 8.885 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 2:57

Tot Ion:

Ion Ratio

45 100

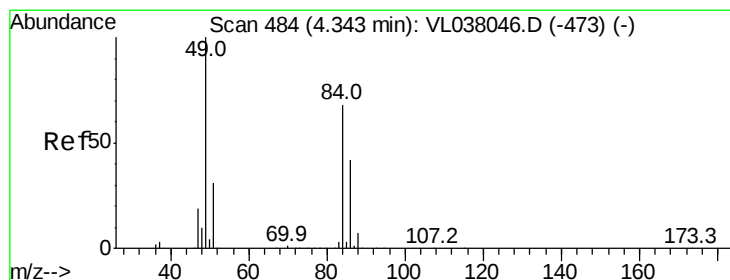
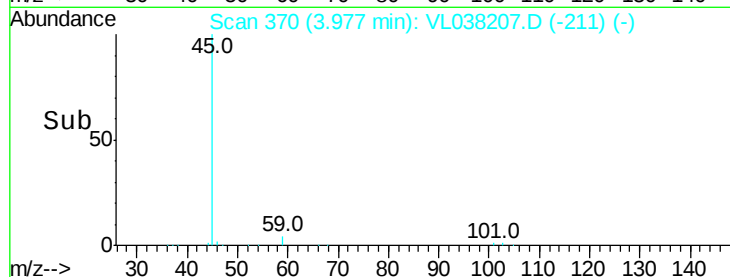
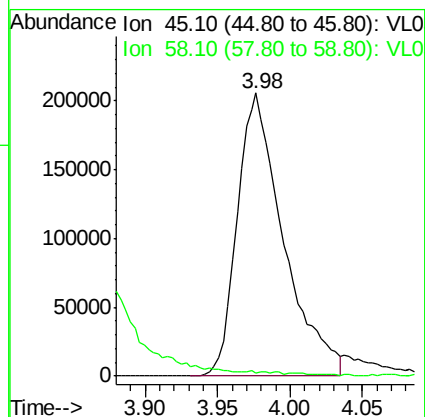
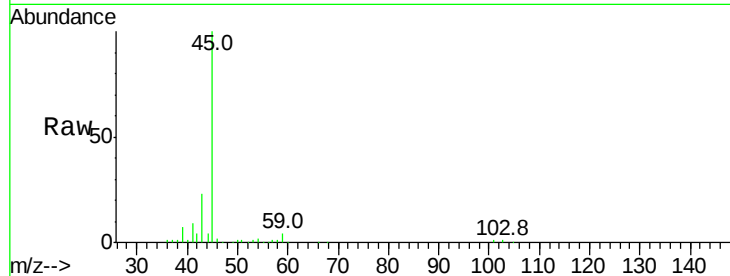
58 71.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#20

Methylene Chloride

Concen: 4.101 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL038207.D

Acq: 17 Dec 2021 2:57

Tgt Ion: 84 Resp: 162625

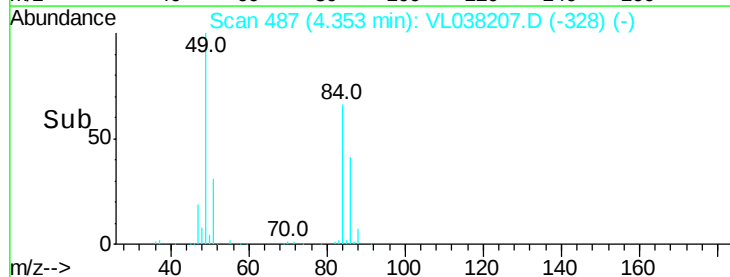
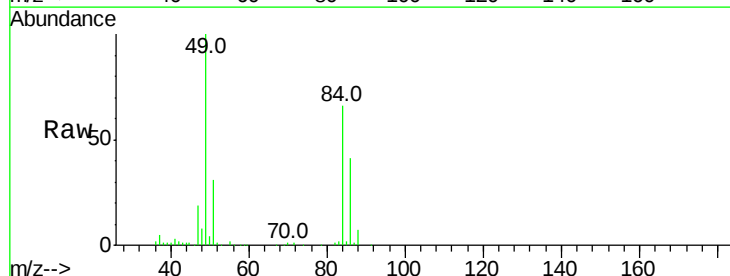
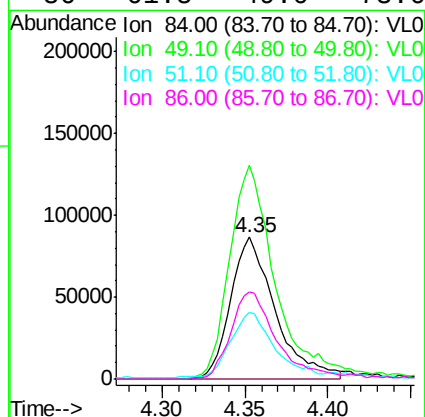
Ion Ratio Lower Upper

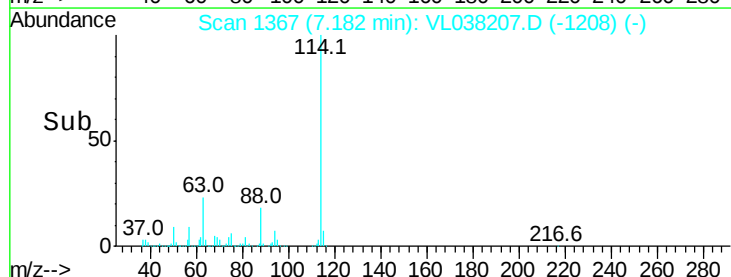
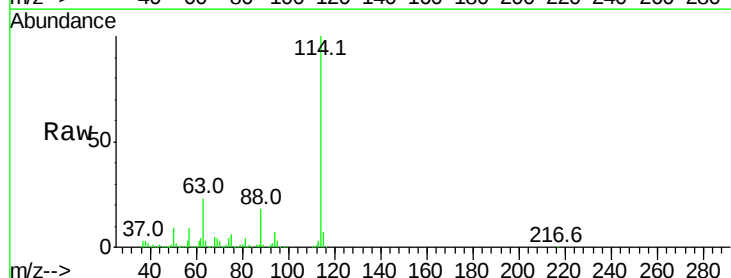
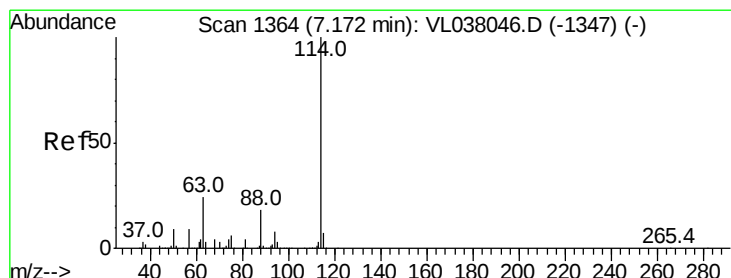
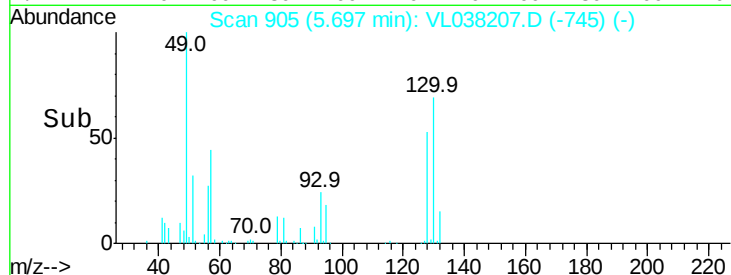
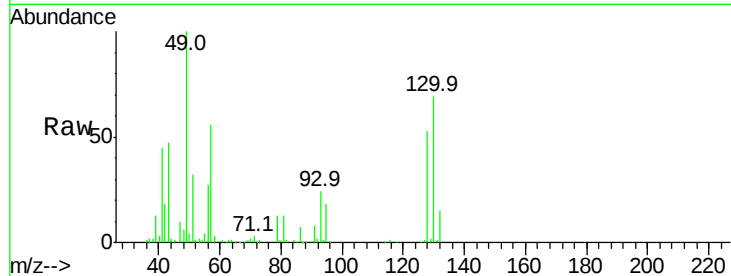
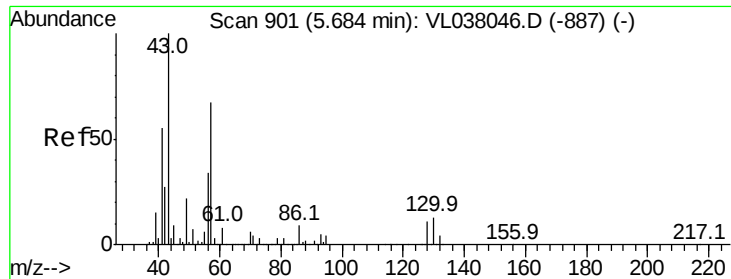
84 100

49 149.8 118.2 177.2

51 46.3 36.8 55.2

86 61.5 49.0 73.6



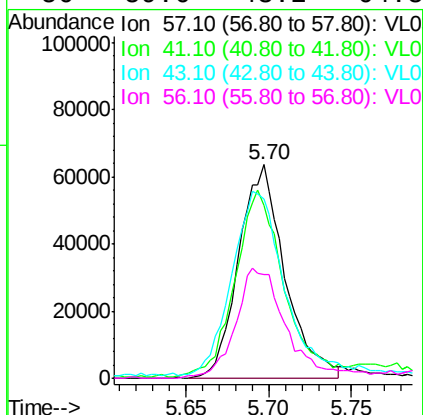


#26
Hexane
Concen: 1.089 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:57

Tot Ion:
Ion Ratio
57 100
41 90.
43 100.
56 59.6 43.2 64.8

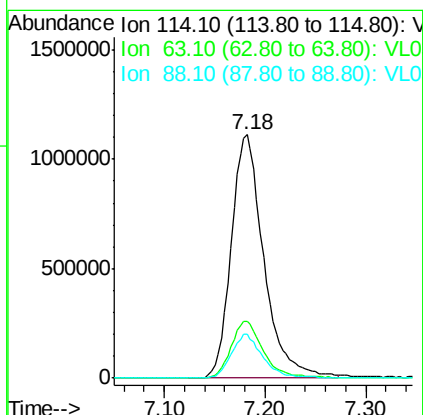
Manual Integrations
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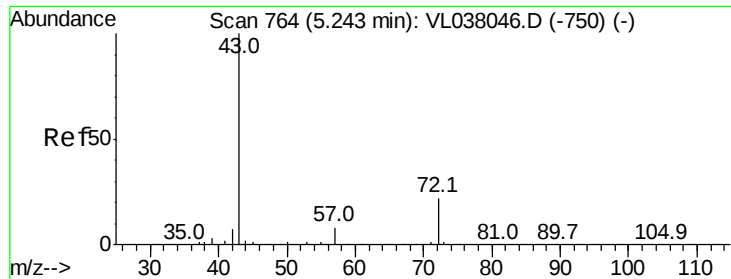
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion:114 Resp: 2497191
Ion Ratio Lower Upper
114 100
63 23.4 19.7 29.5
88 17.6 14.4 21.6



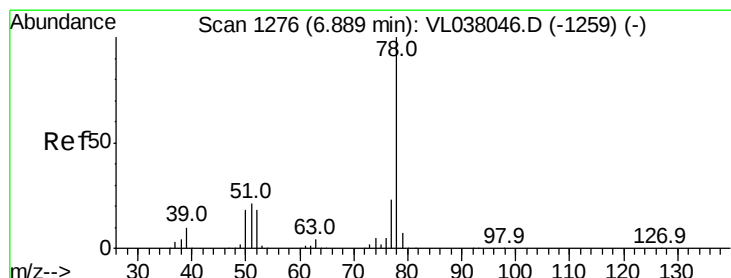
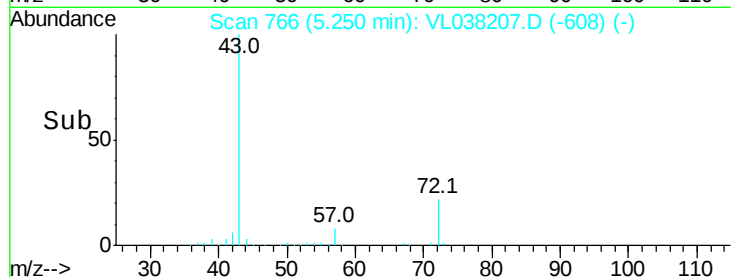
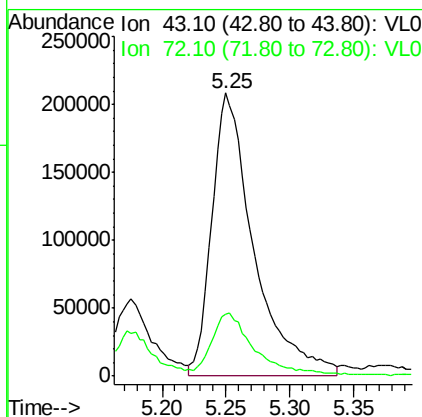
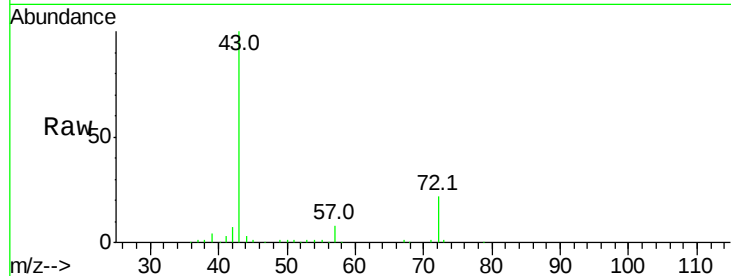


#34
2-Butanone
Concen: 4.751 ppbv m
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:57

Tot Ion:
Ion Ratio
43 100
72 23.

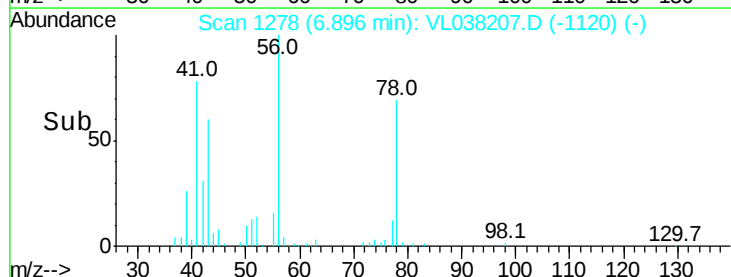
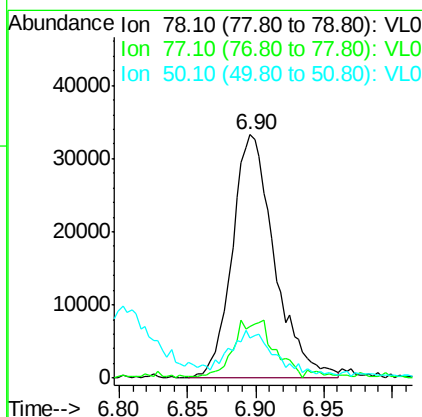
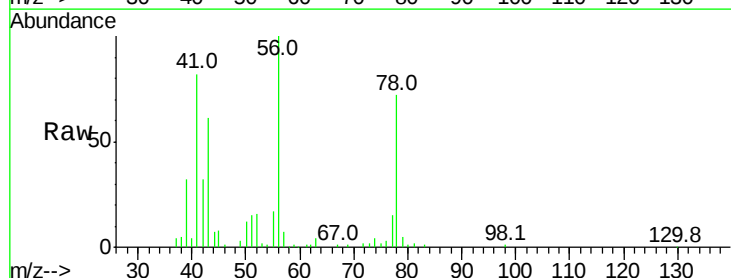
Manual Integrations
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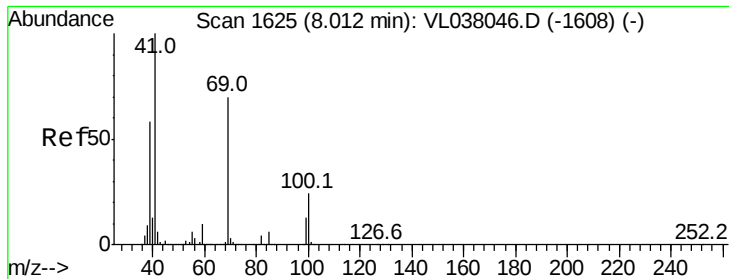
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#36
Benzene
Concen: 0.289 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion: 78 Resp: 71872
Ion Ratio Lower Upper
78 100
77 20.5 18.2 27.4
50 15.6 14.7 22.1



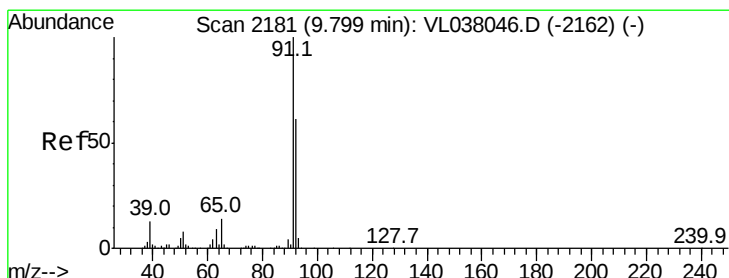
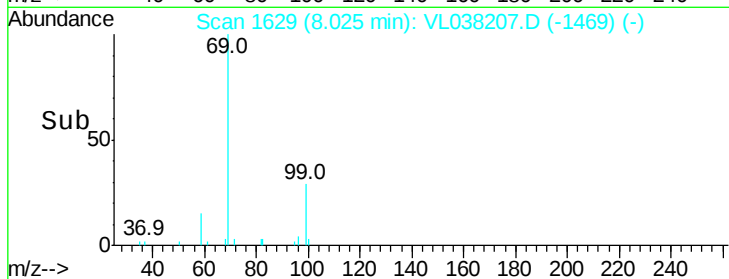
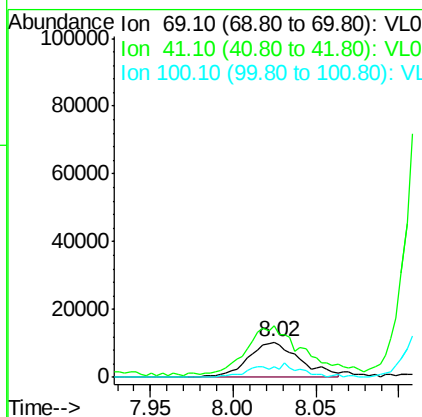
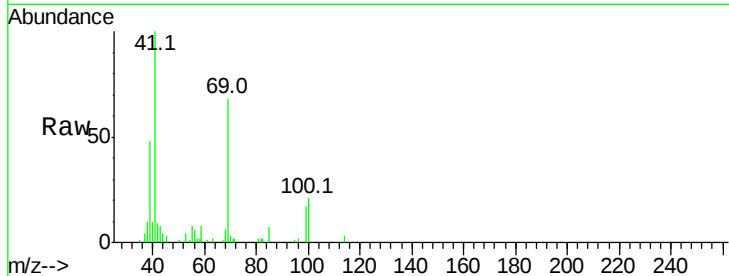


#43
Methvl Methacrvlate
Concen: 0.267 ppbv m
RT: 8.02
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:57

Tot Ion:
Ion Ratio
69 100
41 156.
100 35.

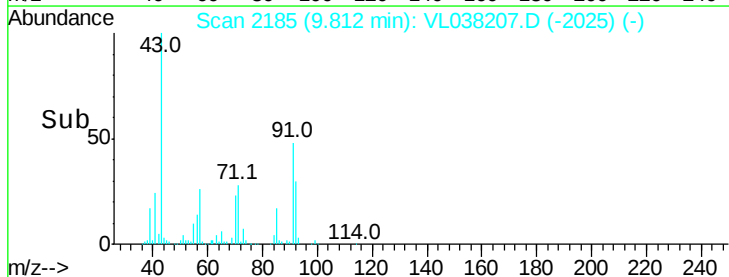
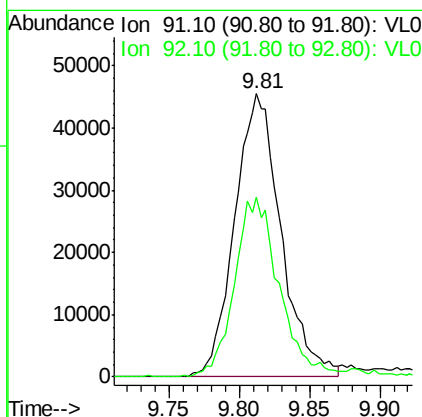
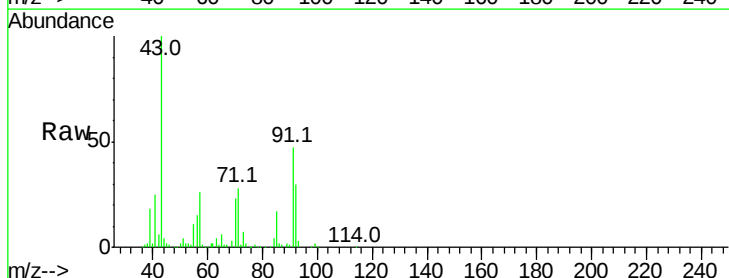
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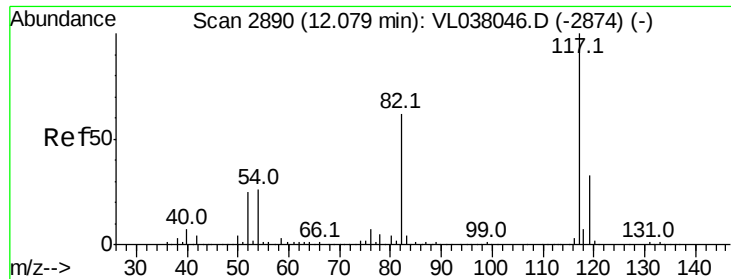
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#53
Toluene
Concen: 0.365 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. 0.01 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion: 91 Resp: 104507
Ion Ratio Lower Upper
91 100
92 64.0 49.7 74.5



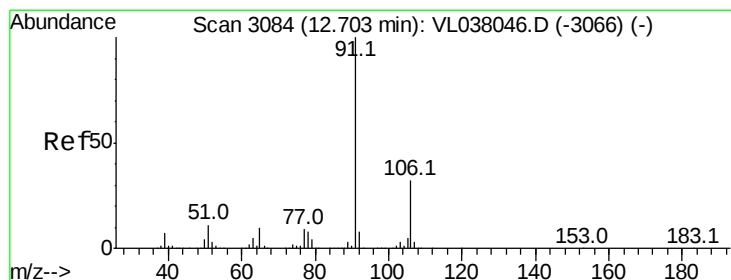
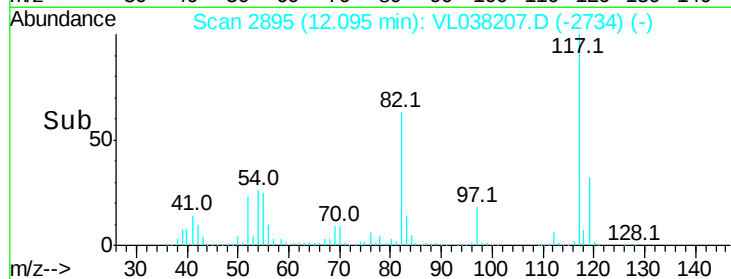
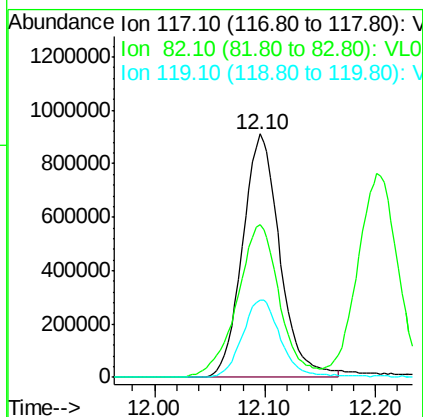
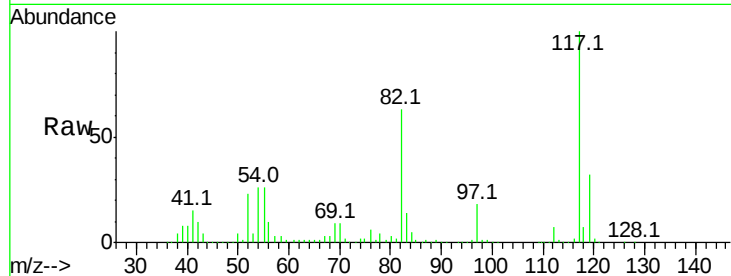


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 17 Dec 2021 2:57

Tot Ion: 1
Ion Ratio
117 100
82 71.
119 33.

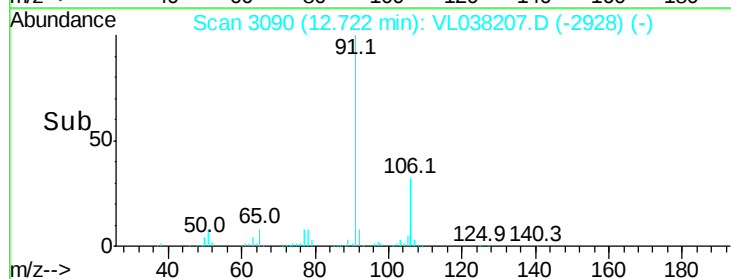
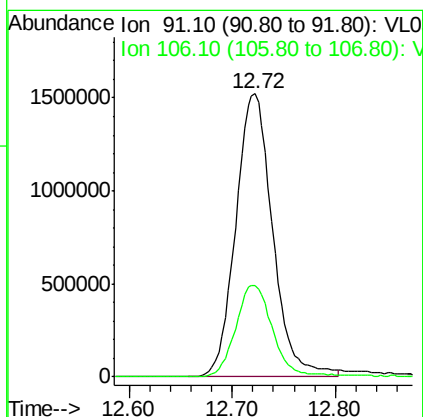
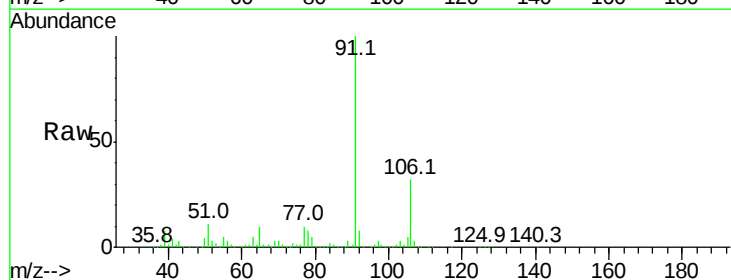
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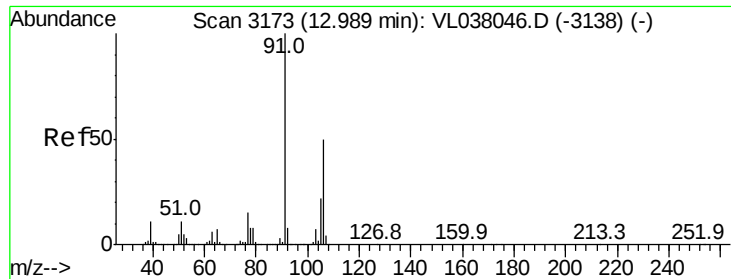
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#58
Ethyl Benzene
Concen: 10.744 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.02 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion: 91 Resp: 3789156
Ion Ratio Lower Upper
91 100
106 32.2 25.8 38.6



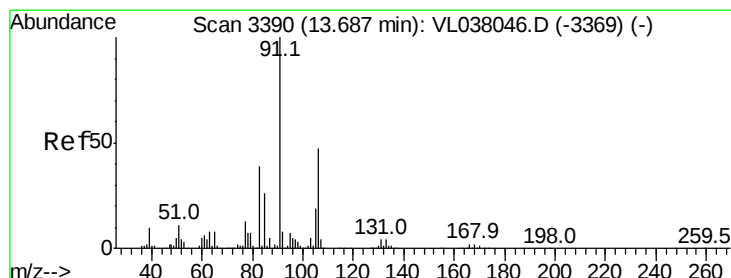
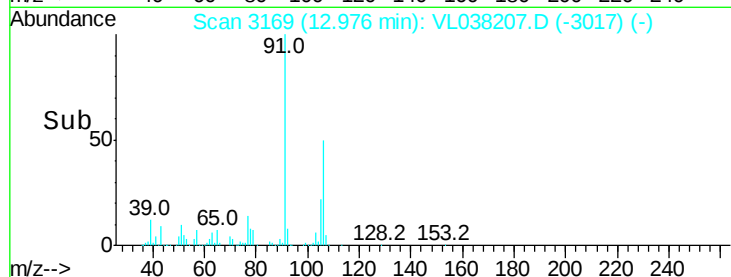
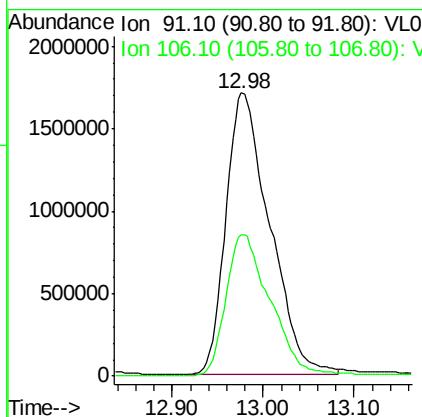
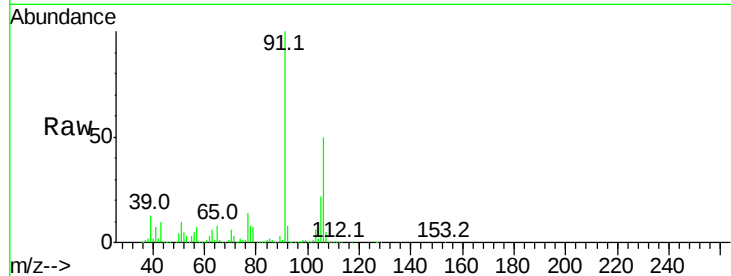


#59
m/p-Xylene
Concen: 19.221 ppbv
RT: 12.98
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:57

Tot Ion:
Ion Ratio
91 100
106 52.

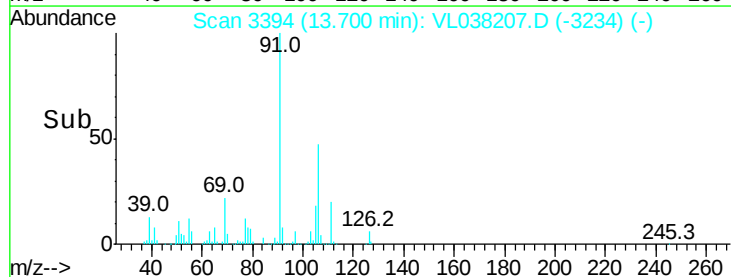
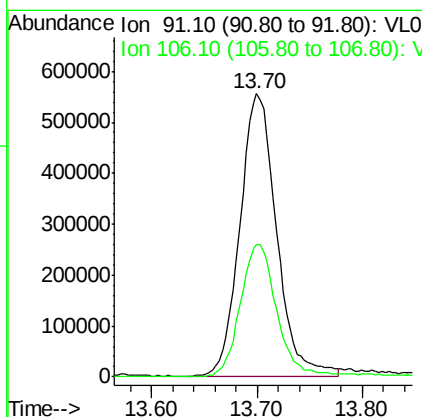
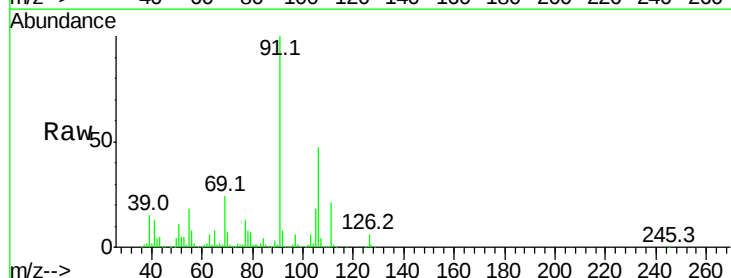
Manual Integrations
APPROVED

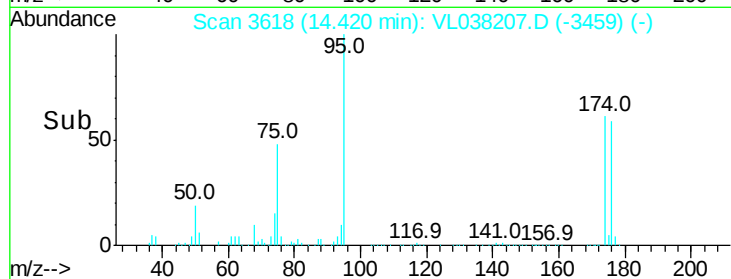
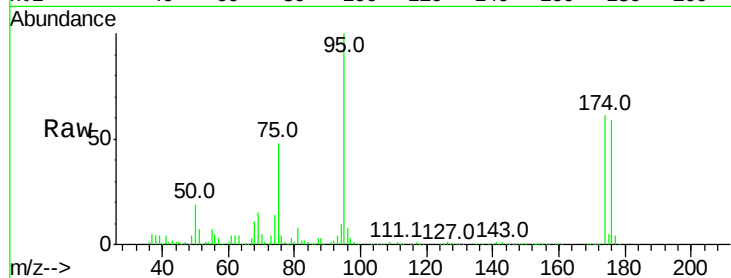
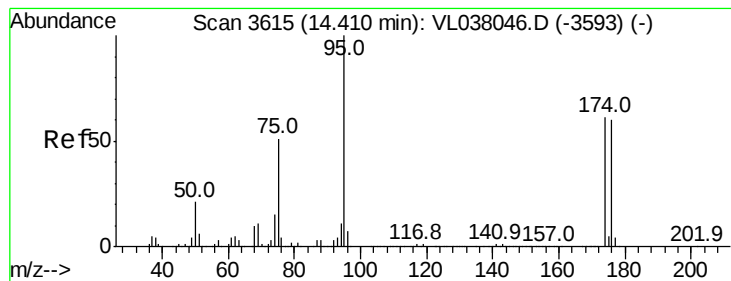
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#60
o-Xylene
Concen: 4.868 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.01 min
Lab File: VL038207.D
Acq: 17 Dec 2021 2:57

Tgt Ion: 91 Resp: 1340756
Ion Ratio Lower Upper
91 100
106 48.0 24.2 72.6





#68

1-Bromo-4-Fluorobenzene

Concen: 11.114 ppbv

RT: 14.42 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 2:57

Tot Ion:

Ion Ratio

95 100

174 65.

175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021

