

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038201.D
 Acq On : 16 Dec 2021 22:54
 Operator : SY/AP
 Sample : M5119-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-2DL

Manual Integrations
 APPROVED

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

Quant Time: Dec 17 08:01:26 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	976987	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2986378	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2284196	10.00	ppbv	0.03

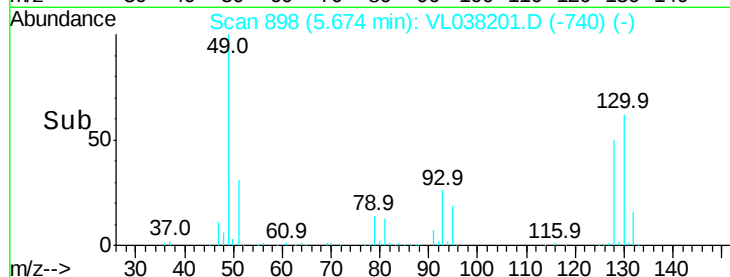
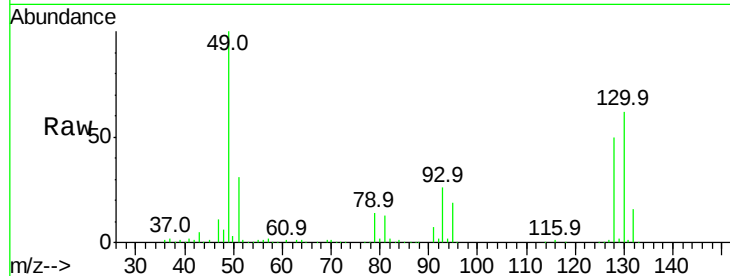
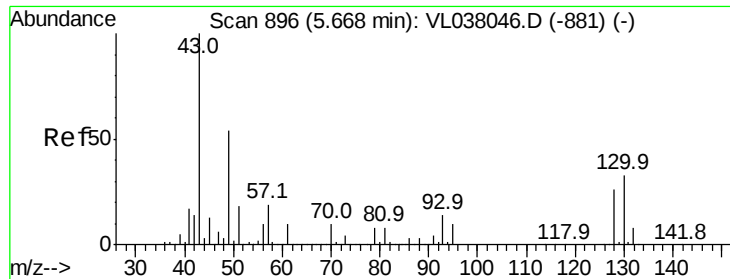
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2511106	15.24	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	152.40%#

Target Compounds

						Ovalue
4) Chloromethane	3.15	50	106304	1.522	ppbv	99
5) Vinyl Chloride	3.26	62	24312	0.355	ppbv	93
7) Chloroethane	3.57	64	7520m	0.309	ppbv	
9) Propene	3.03	41	8708330m	115.248	ppbv	
10) Heptane	8.13	43	5298658	28.373	ppbv	98
13) Ethanol	3.61	45	30490	4.176	ppbv	90
15) Acetone	3.85	43	839059	9.906	ppbv	90
19) Isopropyl Alcohol	3.97	45	1069300	17.471	ppbv	99
20) Methylene Chloride	4.35	84	59281	1.249	ppbv #	92
26) Hexane	5.70	57	83843	0.618	ppbv #	63
29) Chloroform	5.76	83	617674	3.089	ppbv	95
30) Cyclohexane	7.14	84	52207m	0.424	ppbv	
34) 2-Butanone	5.25	43	606934	5.040	ppbv	97
36) Benzene	6.90	78	239970	0.806	ppbv #	94
43) Methyl Methacrylate	8.02	69	47648	0.468	ppbv #	1
53) Toluene	9.82	91	353245	1.031	ppbv	97
58) Ethyl Benzene	12.74	91	11732910	31.078	ppbv	89
59) m/p-Xylene	12.99	91	12114616	38.119	ppbv	91
60) o-Xylene	13.72	91	3119369	10.581	ppbv	100
62) Isopropylbenzene	14.68	105	46658	0.111	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:54 SG-2DL

Tot Ion:

Ion Ratio

49 100

128 53.

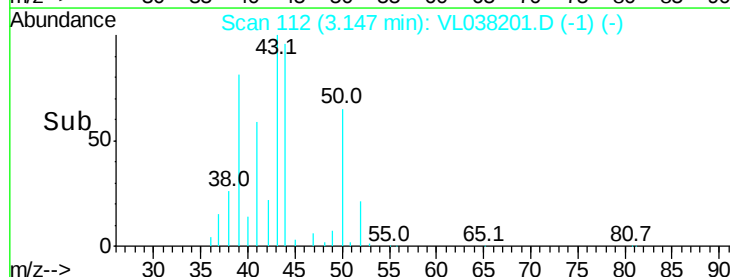
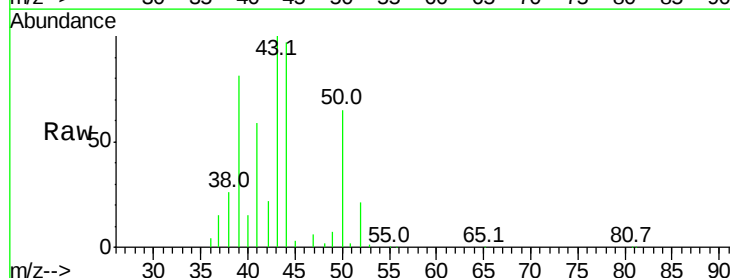
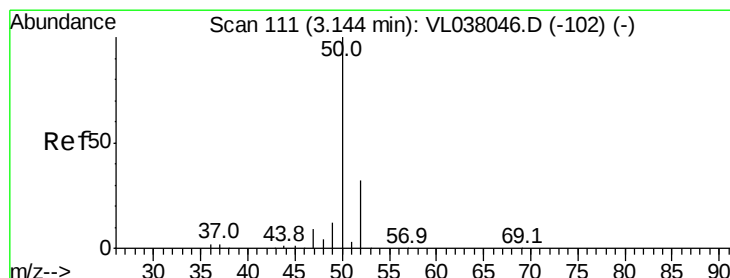
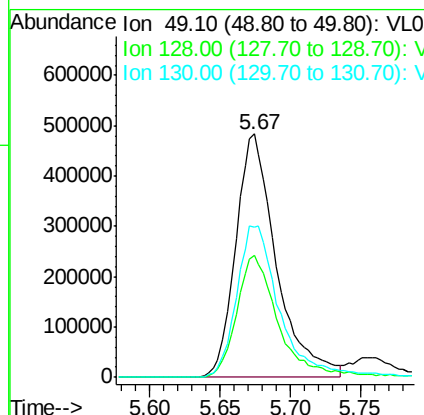
130 67.

Manual Integrations

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Supervised By :Mahesh Dadoda 12/20/2021



#4

Chloromethane

Concen: 1.522 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038201.D

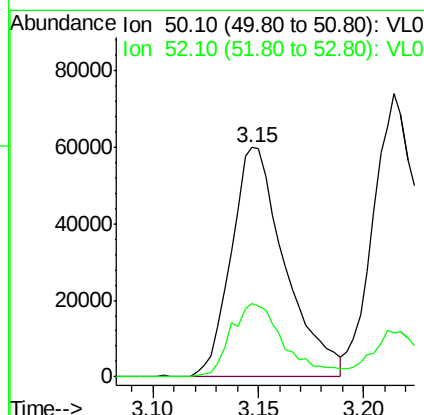
Acq: 16 Dec 2021 22:54

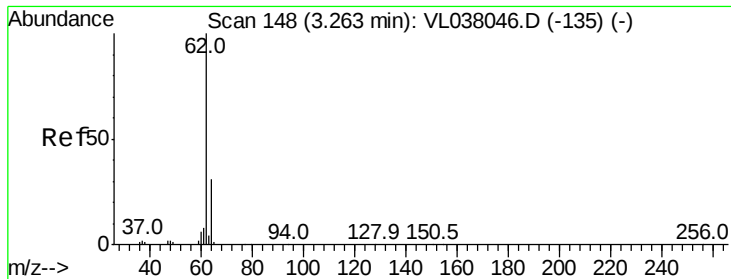
Tgt Ion: 50 Resp: 106304

Ion Ratio Lower Upper

50 100

52 32.2 25.4 38.0





#5

Vinyl Chloride

Concen: 0.355 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:54 SG-2DL

Tot Ion:

Ion Ratio

62 100

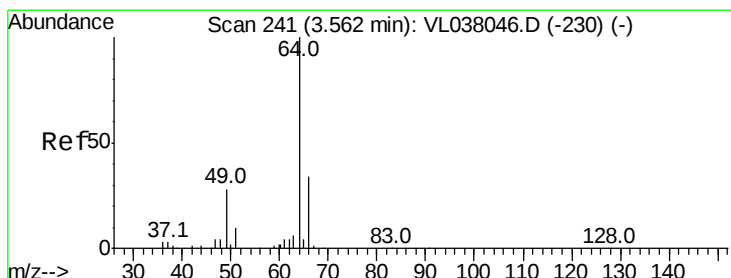
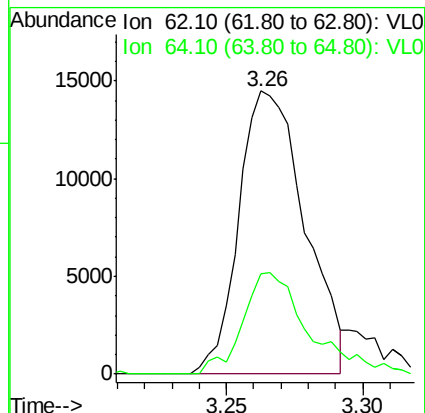
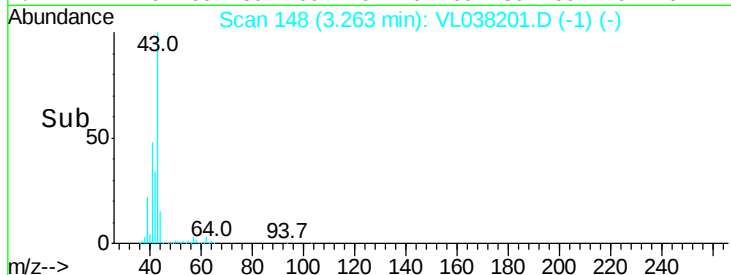
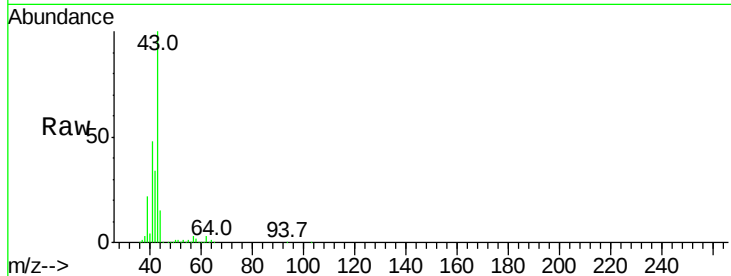
64 35.

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Supervised By :Mahesh Dadoda 12/20/2021



#7

Chloroethane

Concen: 0.309 ppbv m

RT: 3.57 min Scan# 244

Delta R.T. 0.01 min

Lab File: VL038201.D

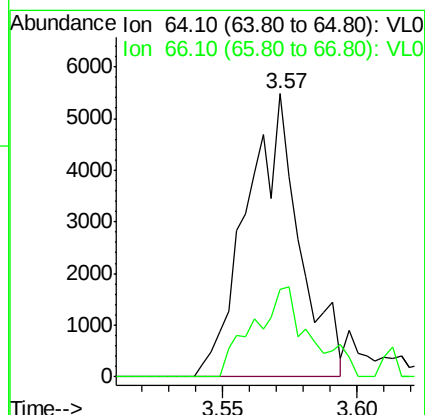
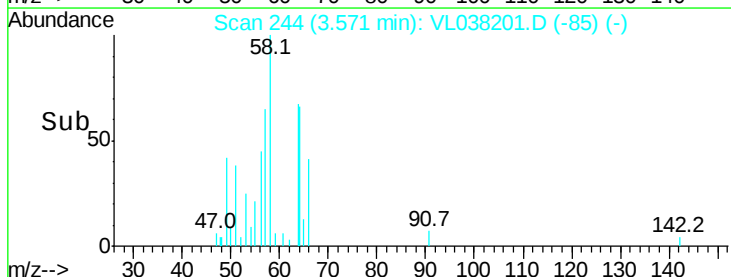
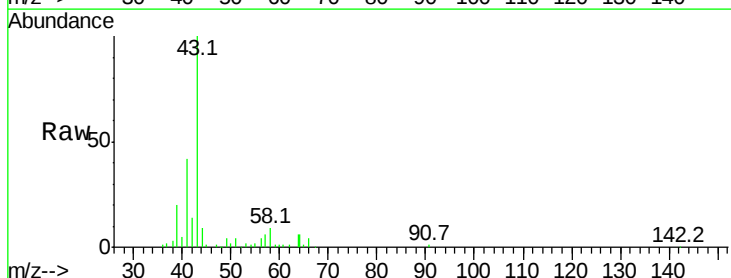
Acq: 16 Dec 2021 22:54

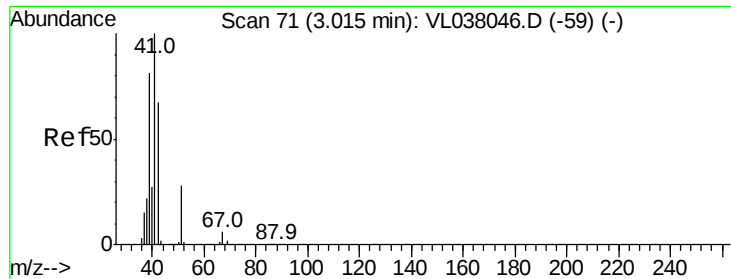
Tgt Ion: 64 Resp: 7520

Ion Ratio Lower Upper

64 100

66 61.4 27.2 40.8#





#9

Propene

Concen: 115.248 ppbv m

RT: 3.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:54

Tot Ion:

Ion Ratio

41 100

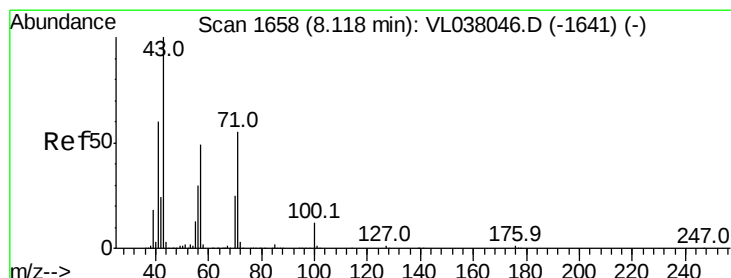
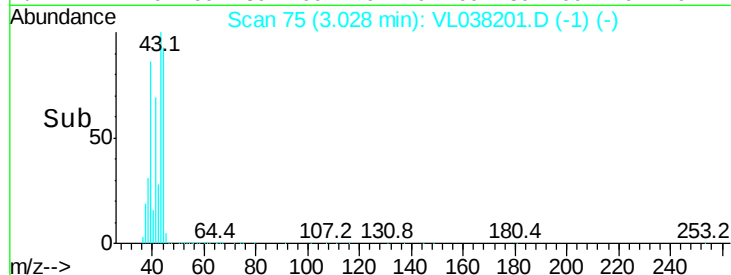
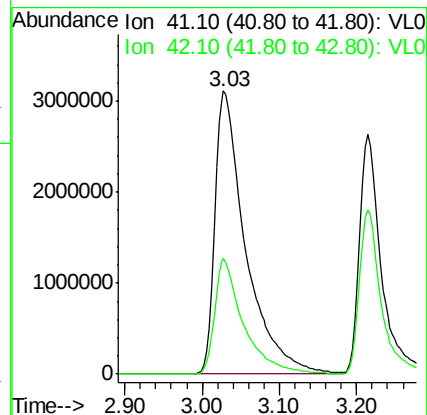
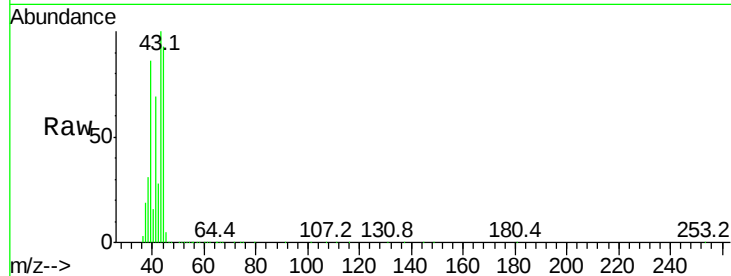
42 40.

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#10

Heptane

Concen: 28.373 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.02 min

Lab File: VL038201.D

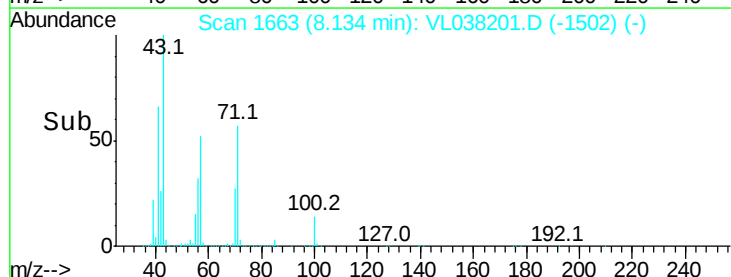
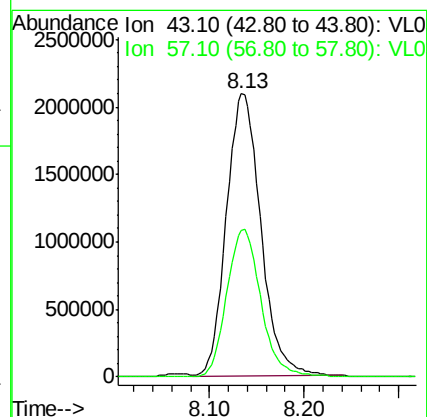
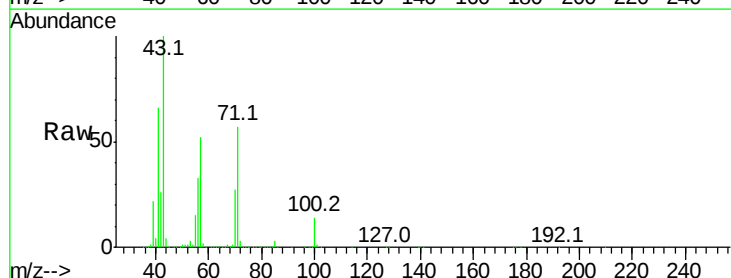
Acq: 16 Dec 2021 22:54

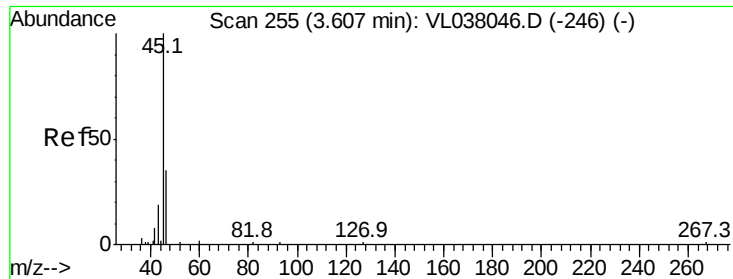
Tgt Ion: 43 Resp: 5298658

Ion Ratio Lower Upper

43 100

57 51.8 40.4 60.6



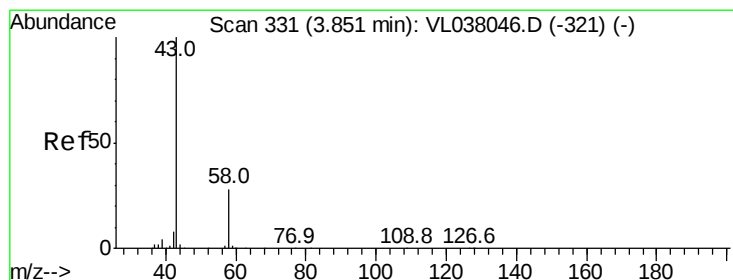
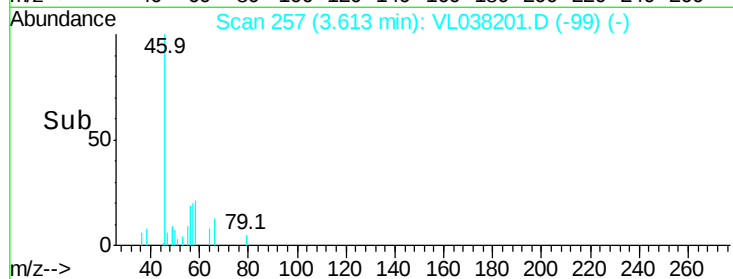
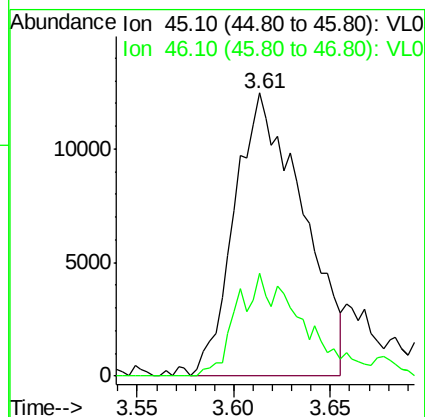
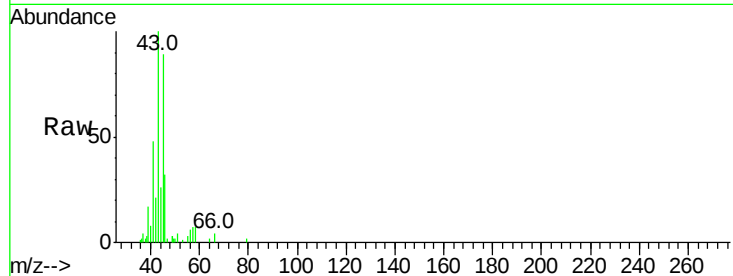


#13
Ethanol
Concen: 4.176 ppbv
RT: 3.61
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
45 100
46 37.

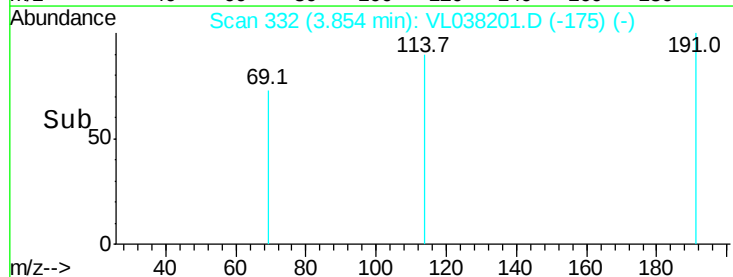
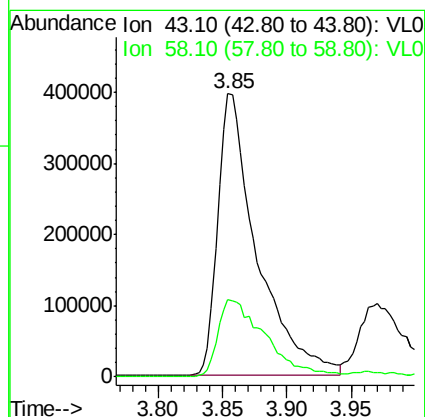
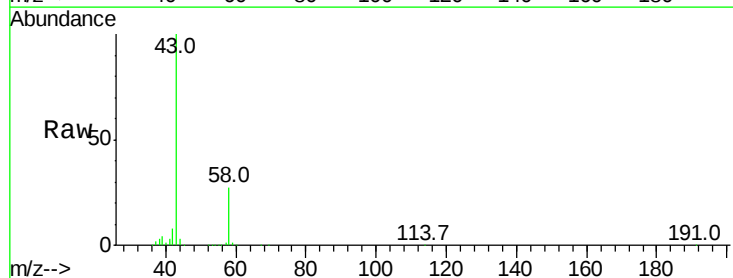
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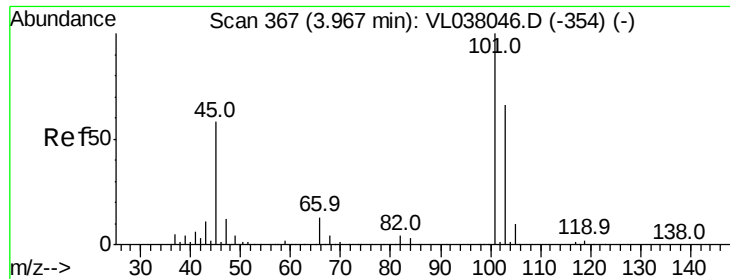
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#15
Acetone
Concen: 9.906 ppbv
RT: 3.85 min Scan# 332
Delta R.T.: 0.00 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion: 43 Resp: 839059
Ion Ratio Lower Upper
43 100
58 33.3 22.4 33.6



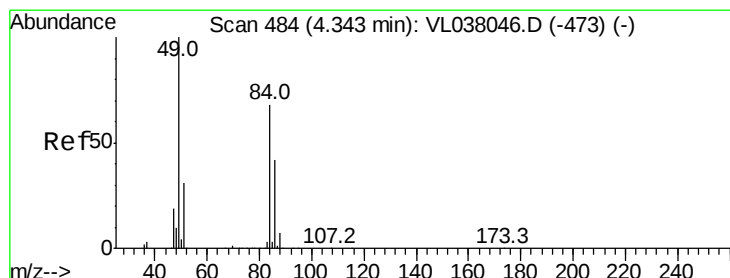
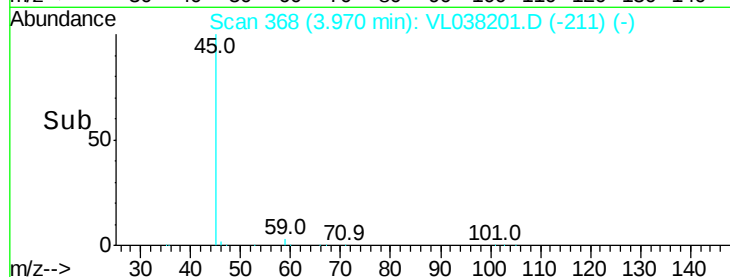
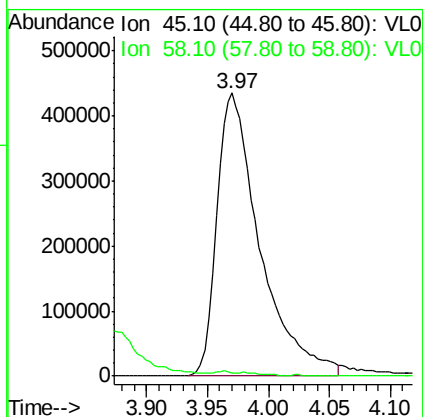
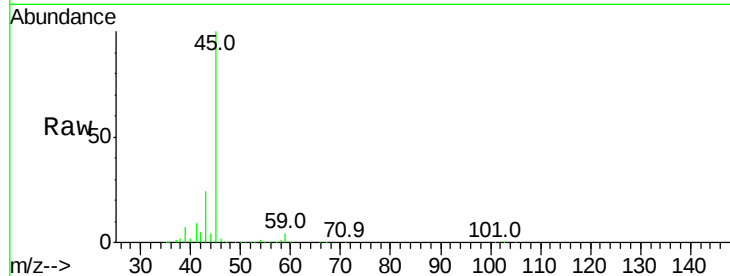


#19
Isopropyl Alcohol
Concen: 17.471 ppbv
RT: 3.97
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
45 100
58 1.

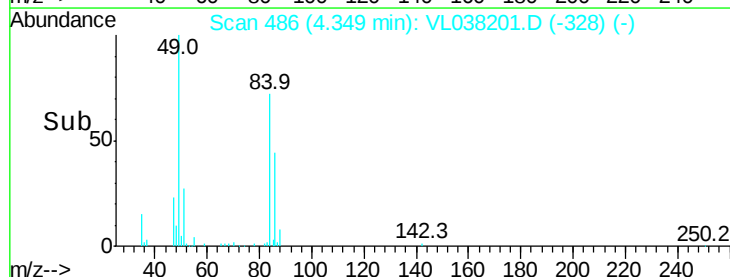
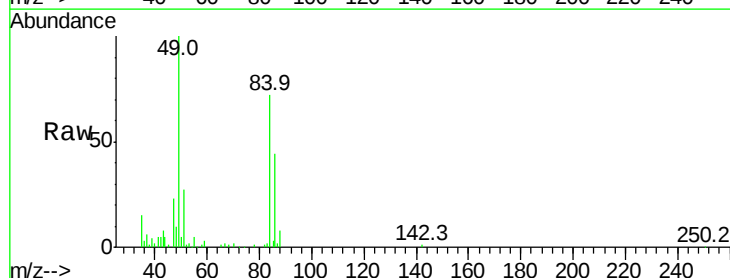
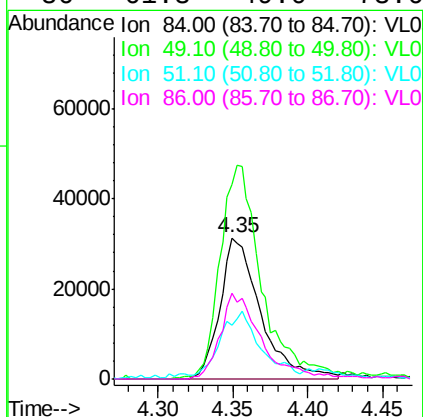
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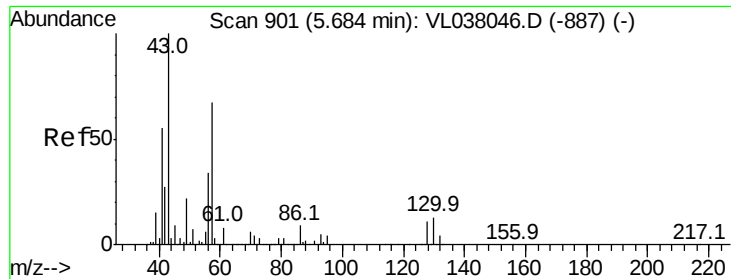
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#20
Methylene Chloride
Concen: 1.249 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion: 84 Resp: 59281
Ion Ratio Lower Upper
84 100
49 136.2 118.2 177.2
51 34.7 36.8 55.2#
86 61.3 49.0 73.6





#26

Hexane

Concen: 0.618 ppbv

RT: 5.70 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:54 SG-2DL

Tot Ion:

Ion Ratio

57 100

41 112.

43 138.

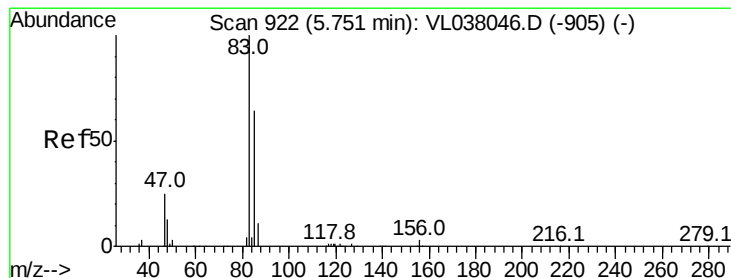
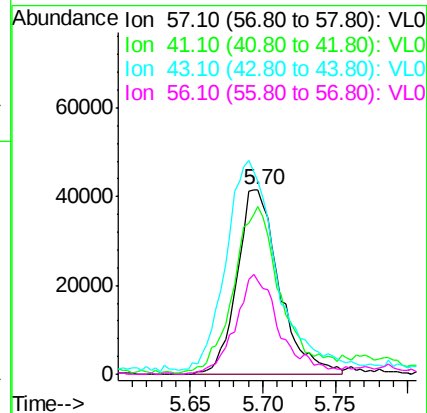
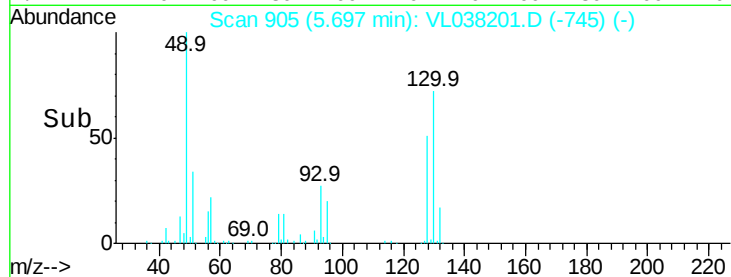
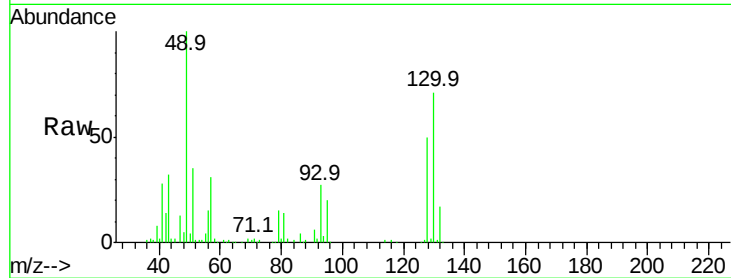
56 58.2 43.2 64.8

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#29

Chloroform

Concen: 3.089 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.01 min

Lab File: VL038201.D

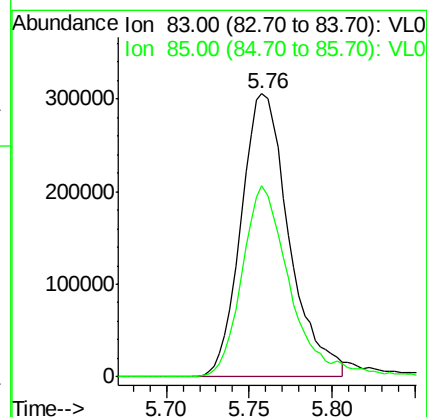
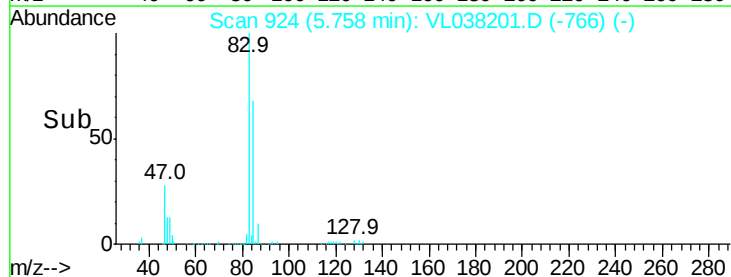
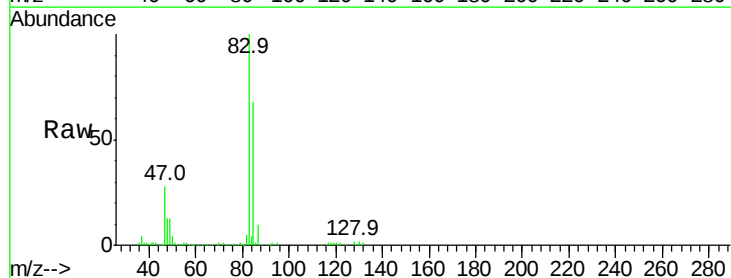
Acq: 16 Dec 2021 22:54

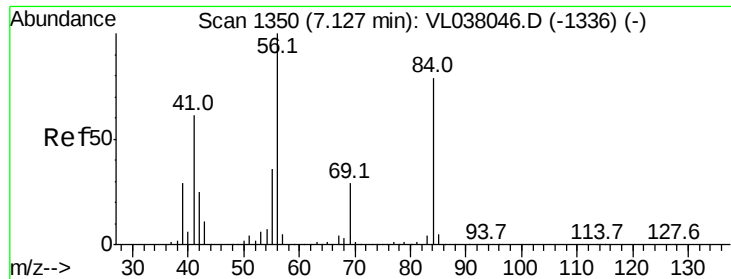
Tgt Ion: 83 Resp: 617674

Ion Ratio Lower Upper

83 100

85 67.7 51.0 76.6



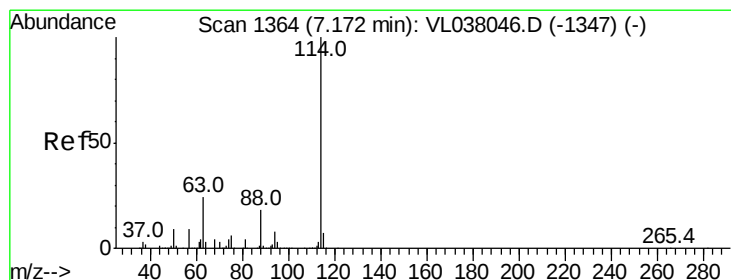
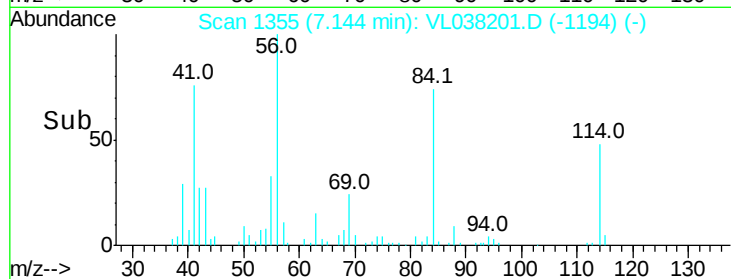
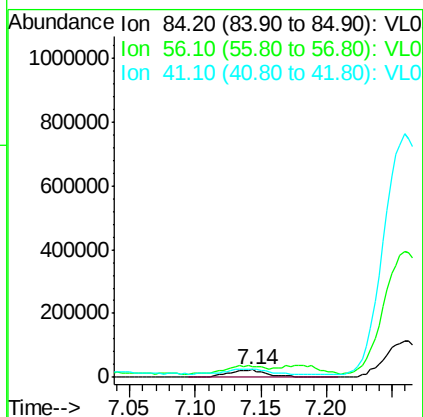
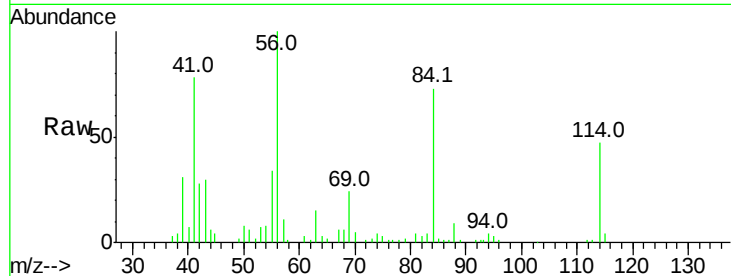


#30
Cvclohexane
Concen: 0.424 ppbv m
RT: 7.14
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

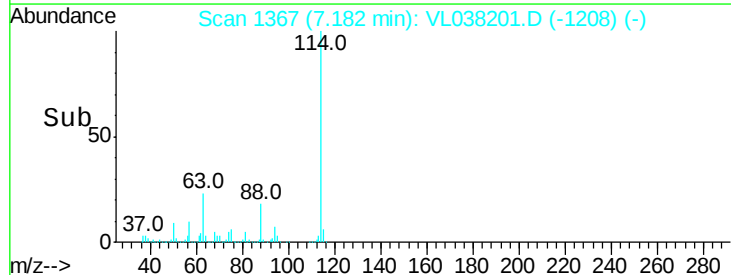
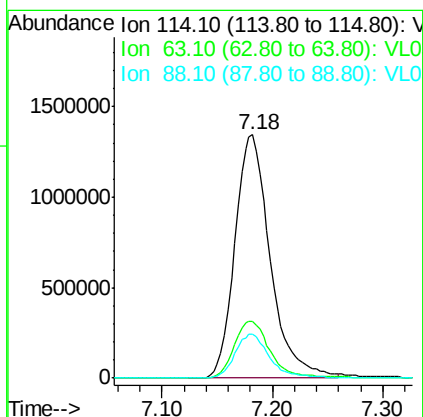
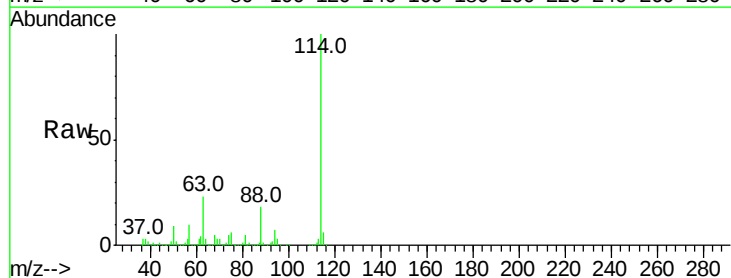
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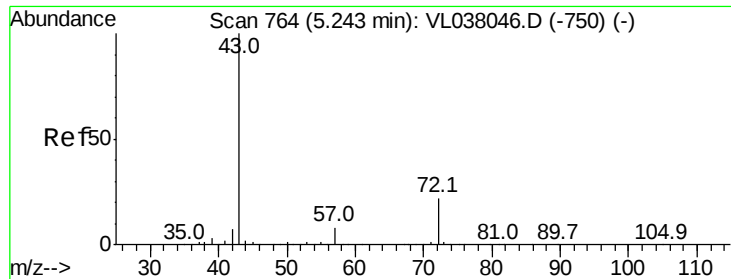
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion:114 Resp: 2986378
Ion Ratio Lower Upper
114 100
63 24.3 19.7 29.5
88 18.0 14.4 21.6



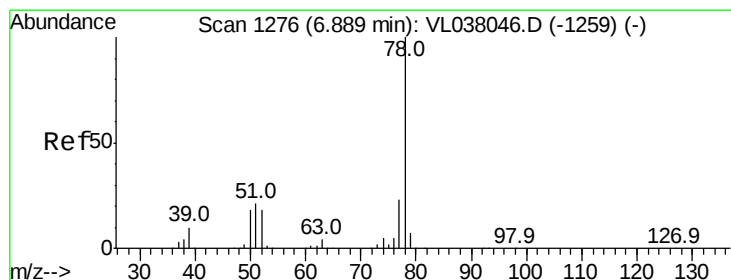
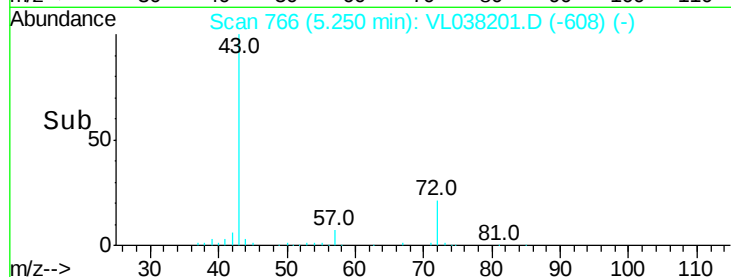
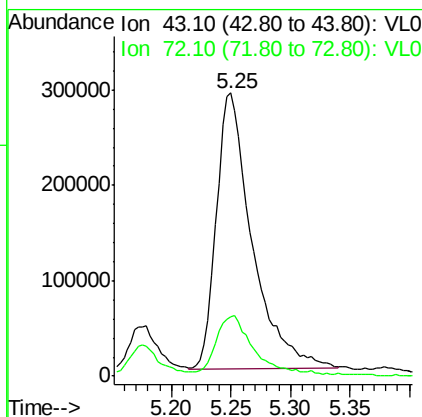
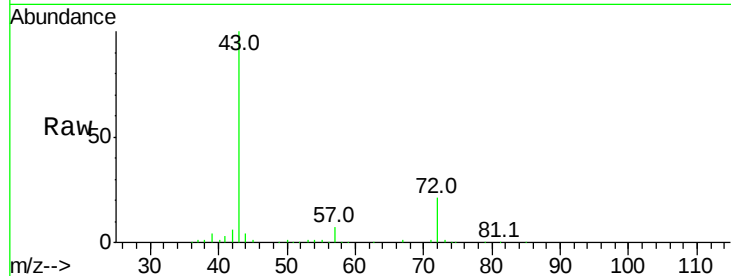


#34
2-Butanone
Concen: 5.040 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
43 100
72 25.

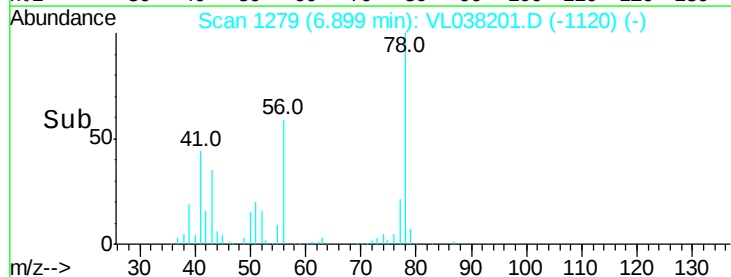
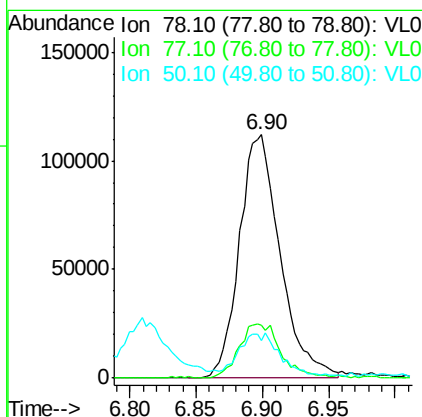
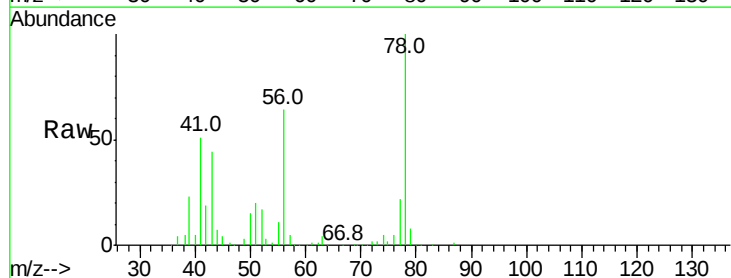
Manual Integrations
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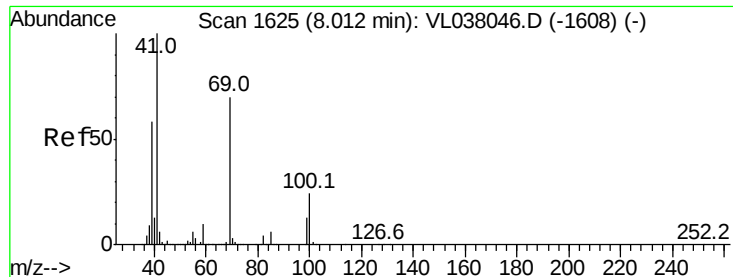
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#36
Benzene
Concen: 0.806 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.01 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion: 78 Resp: 239970
Ion Ratio Lower Upper
78 100
77 21.4 18.2 27.4
50 14.3 14.7 22.1#



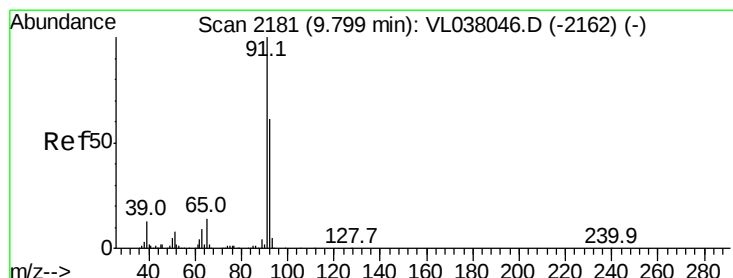
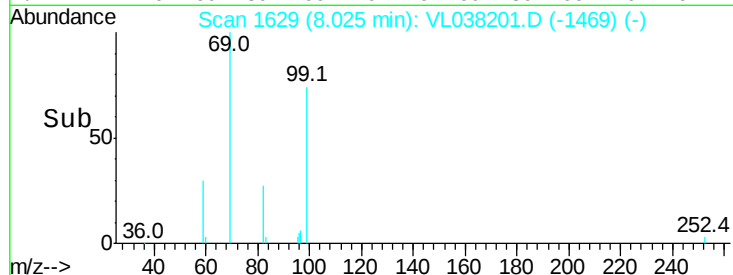
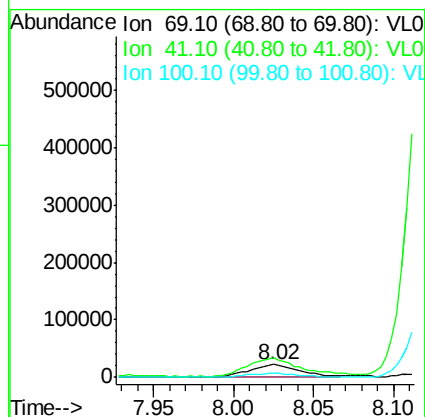
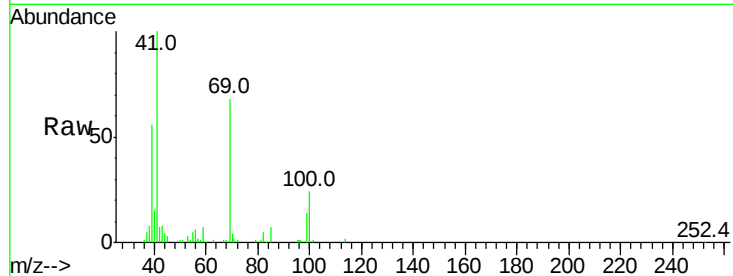


#43
Methvl Methacrylate
Concen: 0.468 ppbv
RT: 8.02
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
69 100
41 0.
100 0.

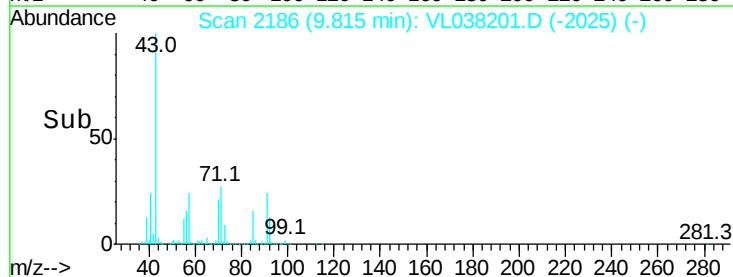
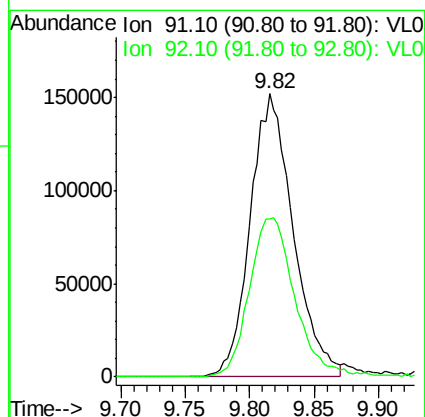
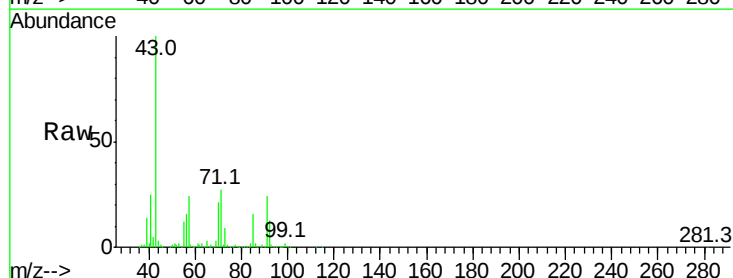
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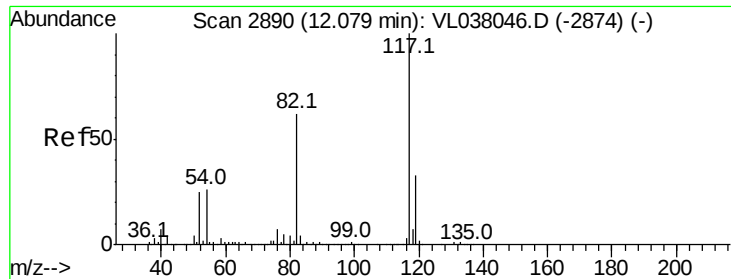
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#53
Toluene
Concen: 1.031 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. 0.02 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion: 91 Resp: 353245
Ion Ratio Lower Upper
91 100
92 60.0 49.7 74.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:54

Tot Ion:1

Ion Rati

117 100

82 104.

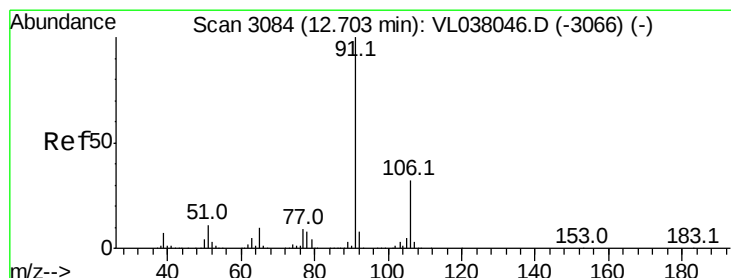
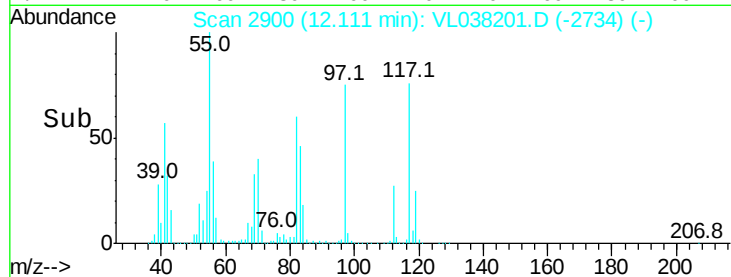
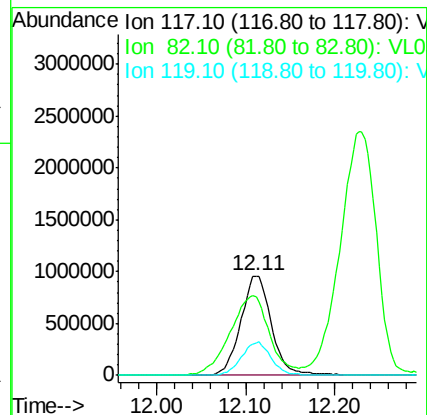
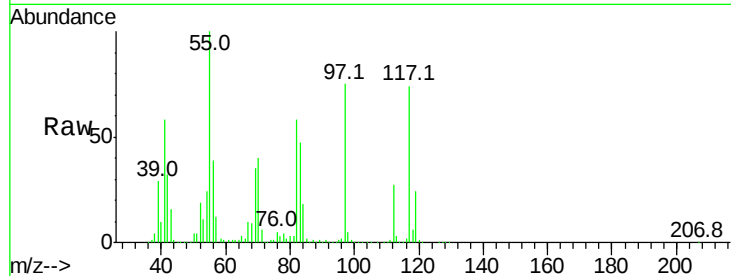
119 33.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#58

Ethyl Benzene

Concen: 31.078 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.04 min

Lab File: VL038201.D

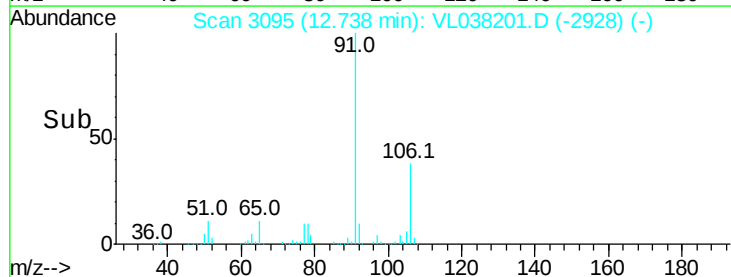
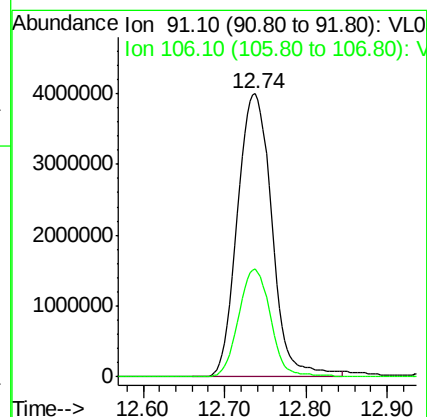
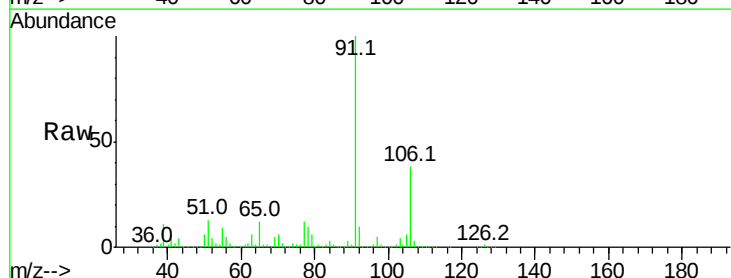
Acq: 16 Dec 2021 22:54

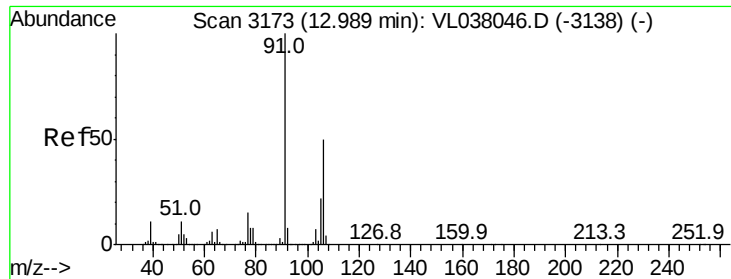
Tgt Ion: 91 Resp:11732910

Ion Ratio Lower Upper

91 100

106 38.1 25.8 38.6



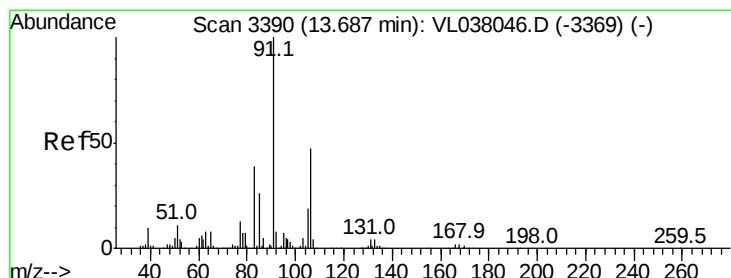
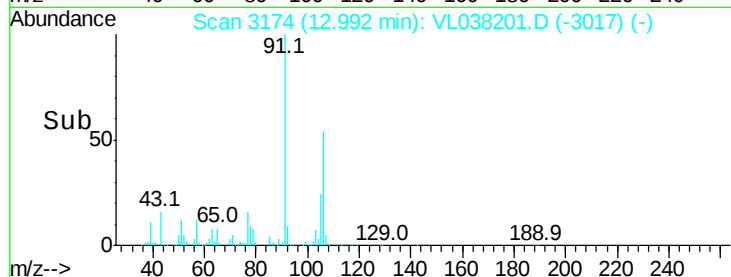
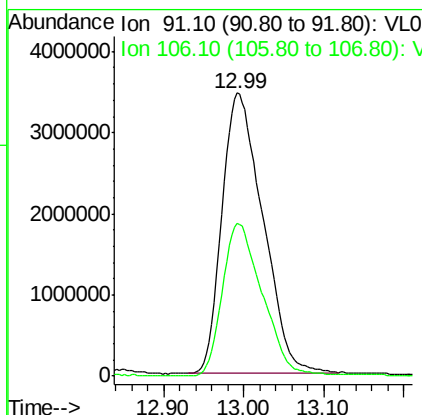
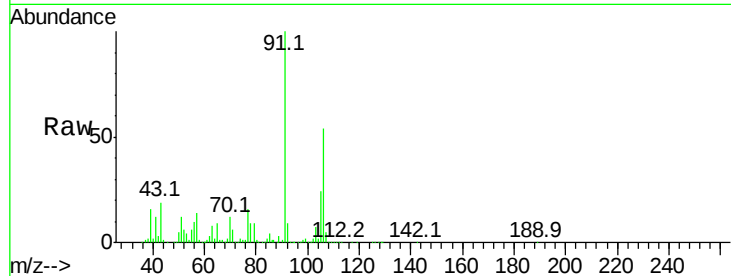


#59
m/p-Xylene
Concen: 38.119 ppbv
RT: 12.99 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:54

Tot Ion:
Ion Ratio
91 100
106 53.

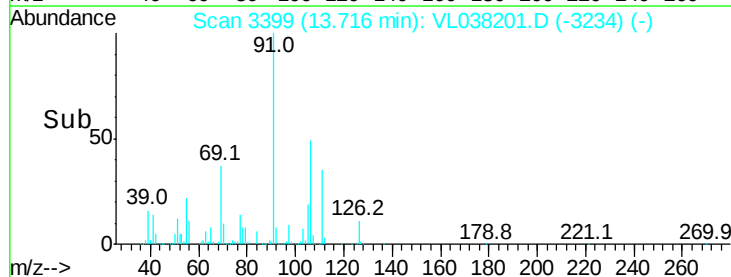
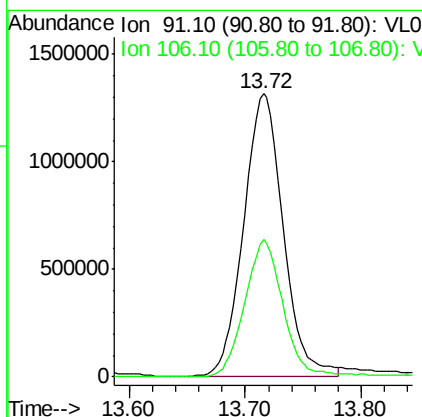
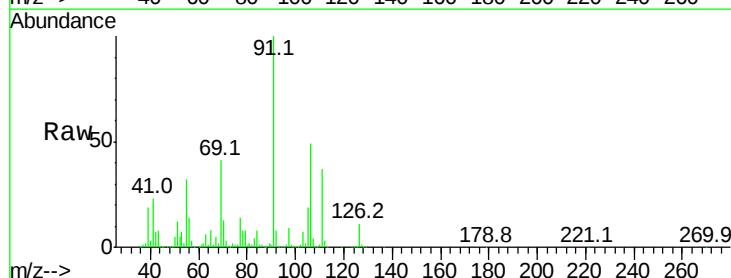
Manual Integrations
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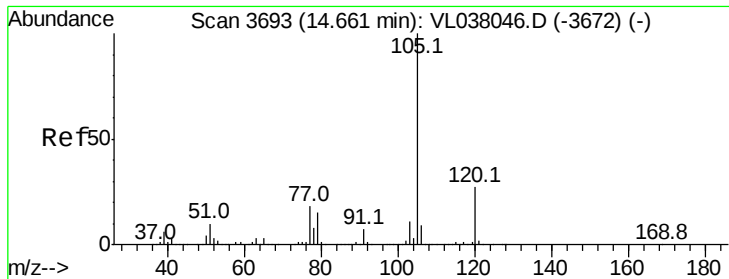
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#60
o-Xylene
Concen: 10.581 ppbv
RT: 13.72 min Scan# 3399
Delta R.T.: 0.03 min
Lab File: VL038201.D
Acq: 16 Dec 2021 22:54

Tgt Ion: 91 Resp: 3119369
Ion Ratio Lower Upper
91 100
106 48.3 24.2 72.6





#62

Isopropylbenzene

Concen: 0.111 ppbv

RT: 14.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 22:54

Tot Ion:1

Ion Ratio

105 100

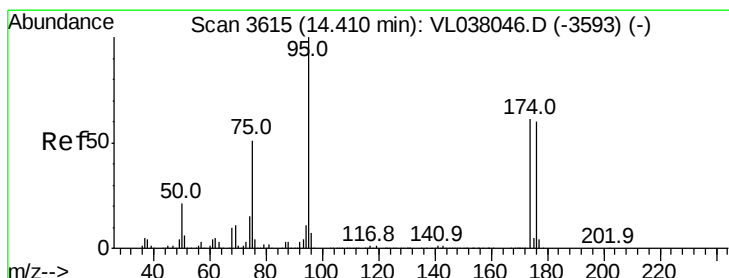
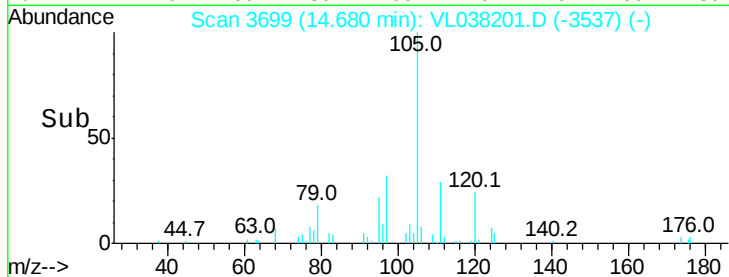
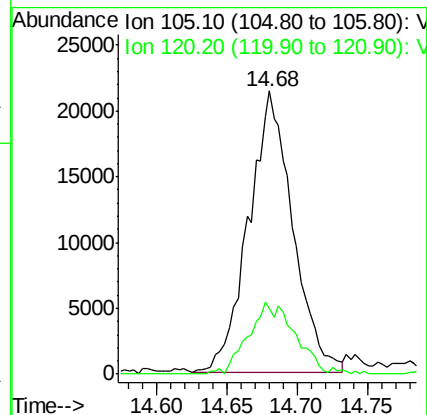
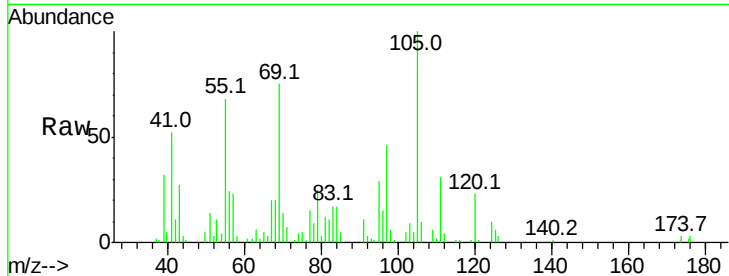
120 27.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 15.241 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.02 min

Lab File: VL038201.D

Acq: 16 Dec 2021 22:54

Tgt Ion: 95 Resp: 2511106

Ion Ratio Lower Upper

95 100

174 52.5 53.1 79.7#

175 4.0 4.0 6.0#

