

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038173.D
 Acq On : 14 Dec 2021 19:25
 Operator : SY/AP
 Sample : M5075-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-U

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 06:30:22 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	5.63	49	860863	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2298775	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.03	117	2015781	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.36	95	1612771	11.09	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	31593	0.222	ppbv	97
3) Chlorodifluoromethane	2.97	51	54569m	0.302	ppbv	
4) Chloromethane	3.12	50	26565	0.432	ppbv	89
9) Propene	3.00	41	91705	1.377	ppbv #	82
10) Heptane	8.08	43	24982m	0.152	ppbv	
11) Trichlorofluoromethane	3.92	101	31257	0.231	ppbv #	80
13) Ethanol	3.58	45	211898m	32.933	ppbv	
15) Acetone	3.83	43	299362	4.011	ppbv #	85
19) Isopropyl Alcohol	3.94	45	109630	2.033	ppbv #	92
20) Methylene Chloride	4.31	84	94294	2.255	ppbv	95
26) Hexane	5.65	57	98947	0.828	ppbv #	51
30) Cyclohexane	7.09	84	26674m	0.246	ppbv	
34) 2-Butanone	5.21	43	27578m	0.298	ppbv	
35) Carbon Tetrachloride	6.97	117	10740m	0.066	ppbv	
36) Benzene	6.85	78	99462	0.434	ppbv	95
44) 2,2,4-Trimethylpentane	7.82	57	75072m	0.196	ppbv	
53) Toluene	9.76	91	164500	0.623	ppbv	99
58) Ethyl Benzene	12.65	91	34160m	0.103	ppbv	
59) m/p-Xylene	12.91	91	92935m	0.331	ppbv	
60) o-Xylene	13.64	91	44637m	0.172	ppbv	
61) Styrene	13.47	104	1161563	8.327	ppbv	94
74) 1,2,4-Trimethylbenzene	16.71	105	30401	0.107	ppbv #	69

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

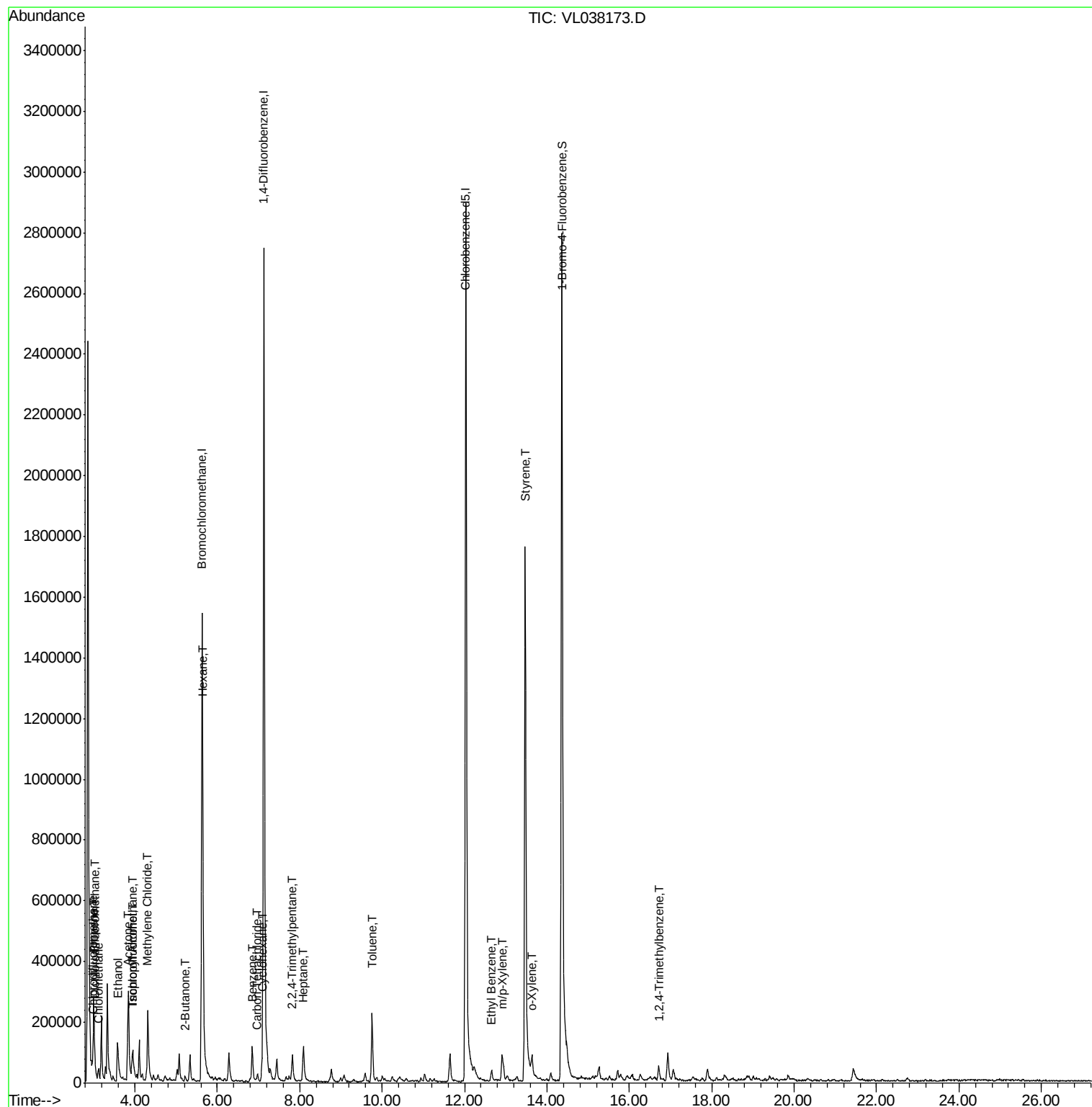
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
Data File : VL038173.D
Acq On : 14 Dec 2021 19:25
Operator : SY/AP
Sample : M5075-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

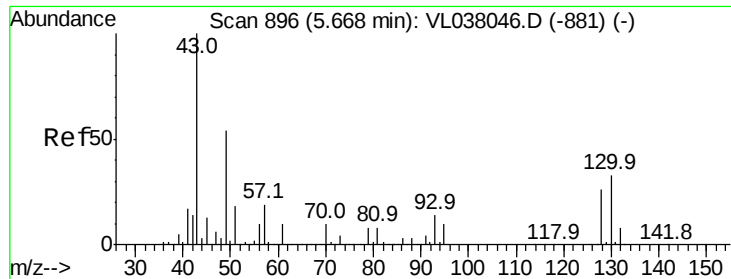
Instrument :
MSVOA_L
ClientSampleId :
AA-U

Quant Time: Dec 15 06:30:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 14 Dec 2021 19:25

Tot Ion:

Ion Ratio

49 100

128 48.

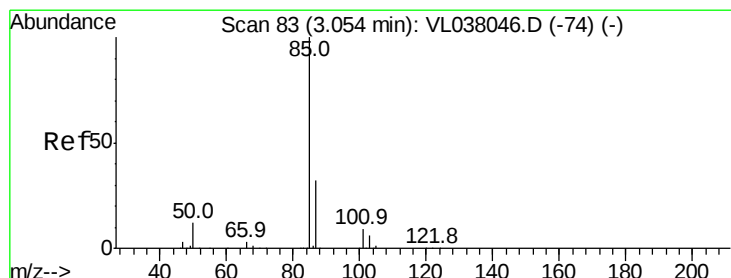
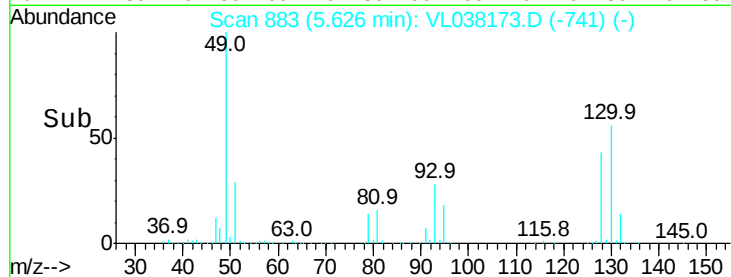
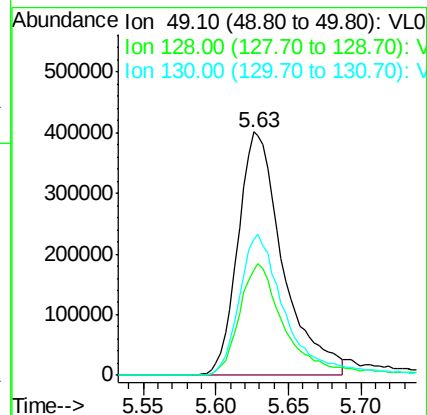
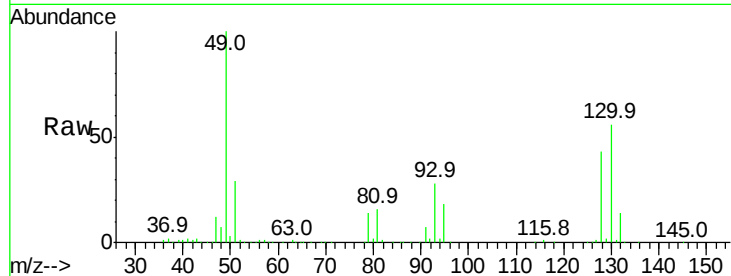
130 61.

Manual Integrations

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Supervised By :Semsettin Yesilyurt 12/16/2021



#2

Dichlorodifluoromethane

Concen: 0.222 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL038173.D

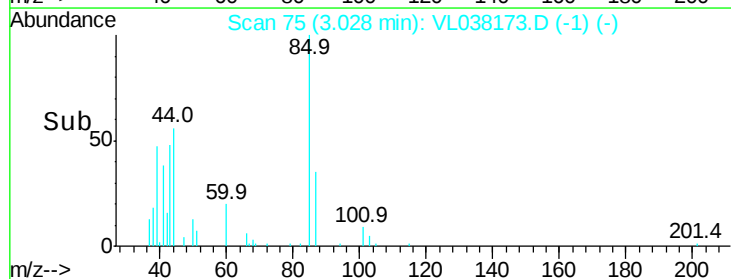
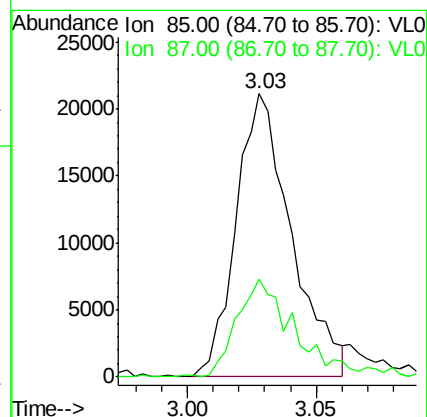
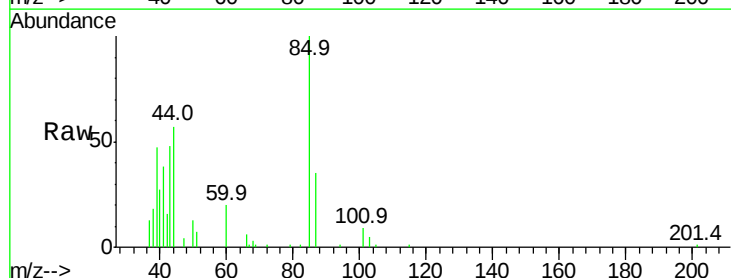
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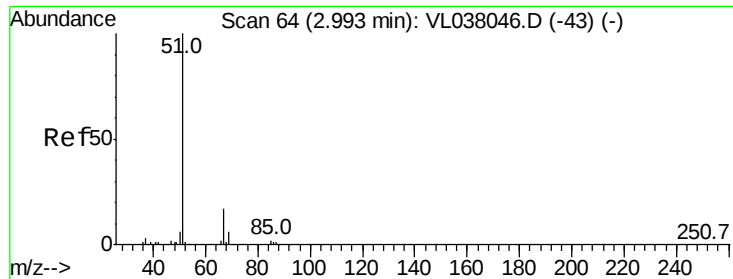
Tgt Ion: 85 Resp: 31593

Ion Ratio Lower Upper

85 100

87 33.8 25.8 38.6



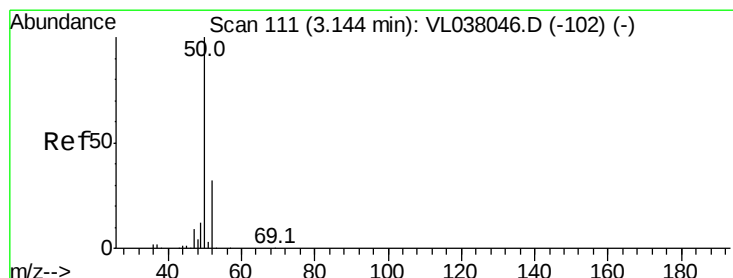
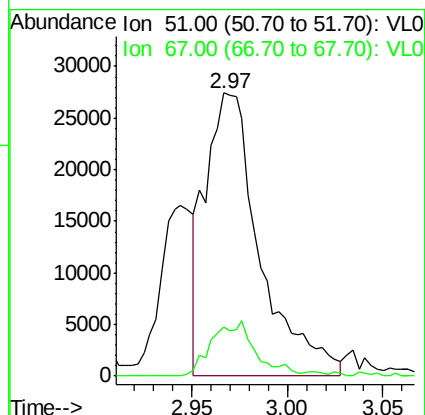
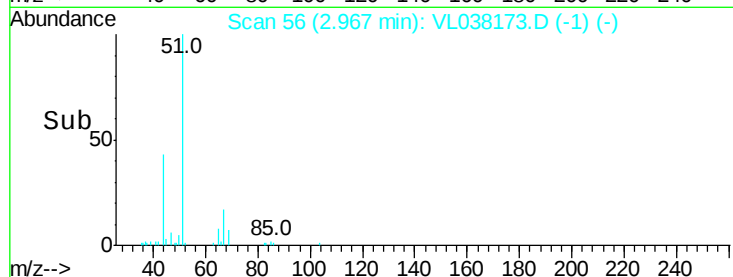
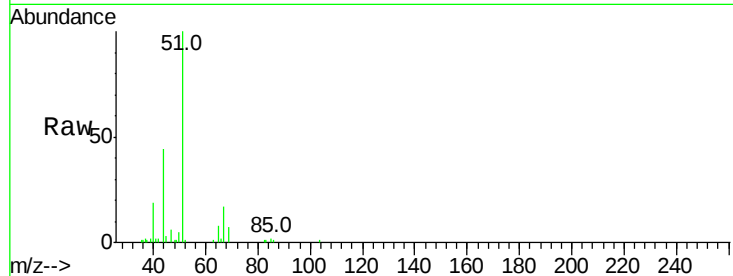


#3
Chlorodifluoromethane
Concen: 0.302 ppbv m
RT: 2.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion:
Ion Ratio
51 100
67 16.

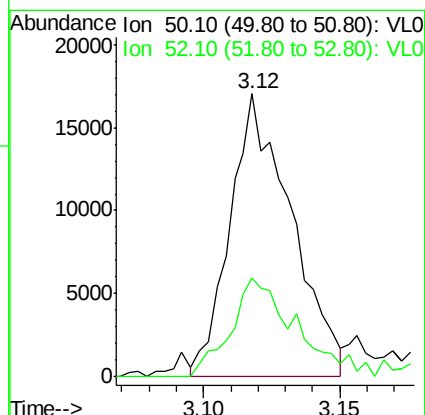
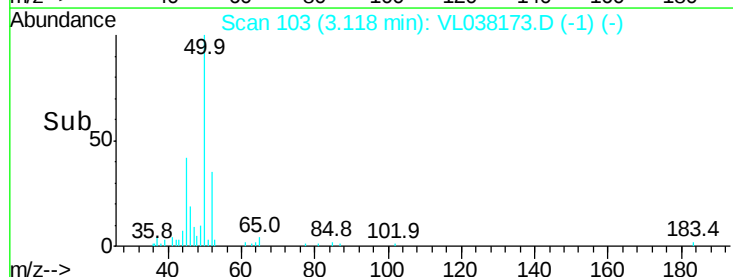
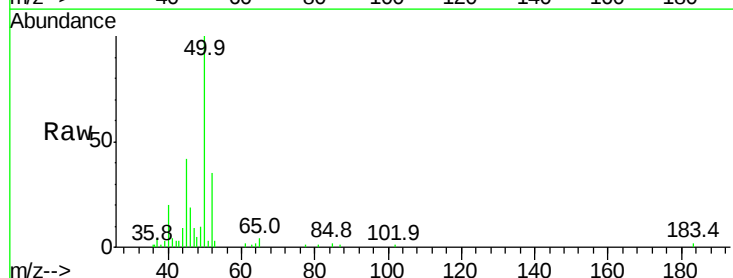
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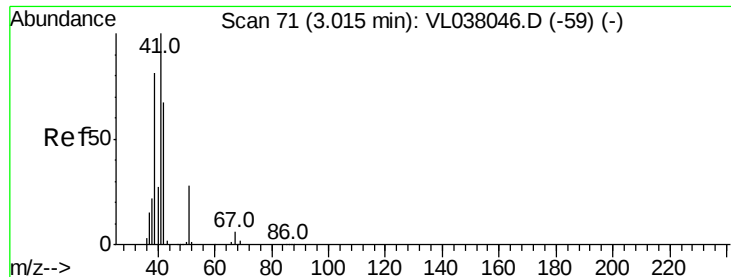
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#4
Chloromethane
Concen: 0.432 ppbv
RT: 3.12 min Scan# 103
Delta R.T. -0.03 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion: 50 Resp: 26565
Ion Ratio Lower Upper
50 100
52 37.8 25.4 38.0



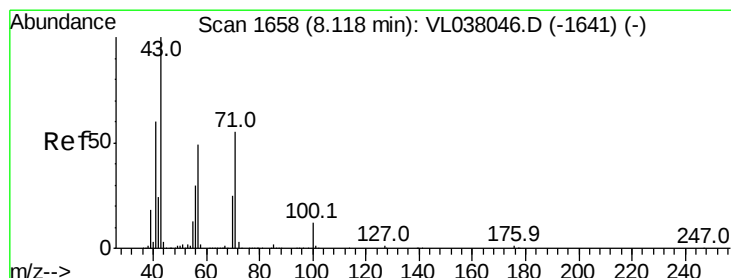
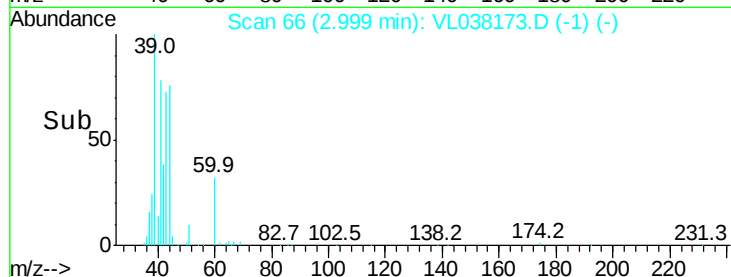
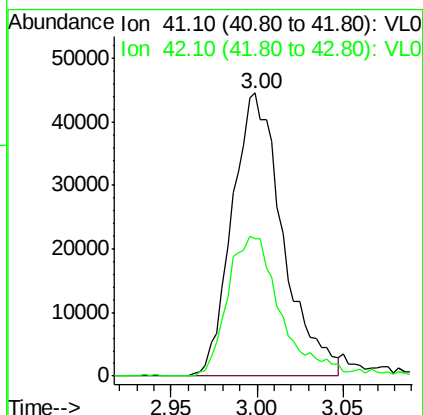
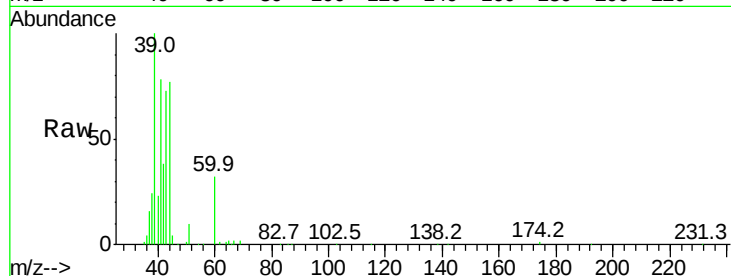


#9
 Propene
 Concen: 1.377 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 19:25

Tot Ion:
 Ion Ratio
 41 100
 42 52.

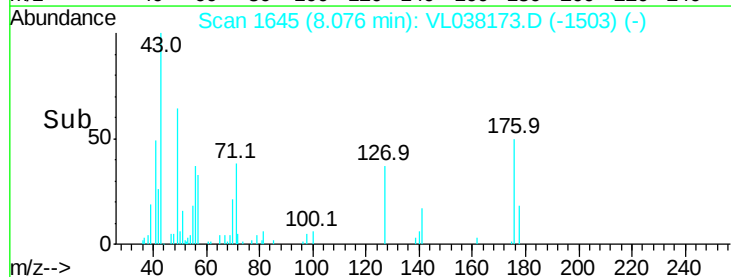
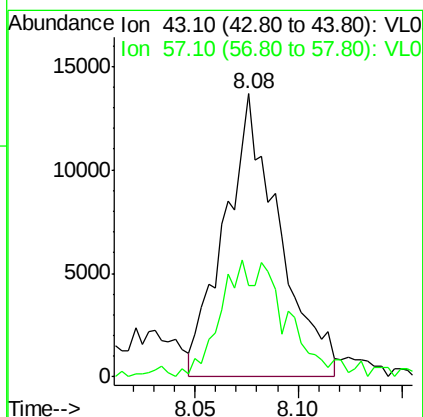
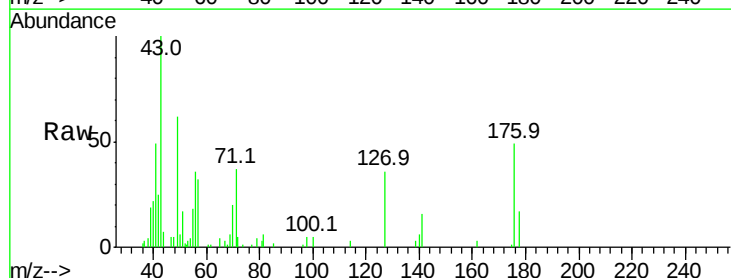
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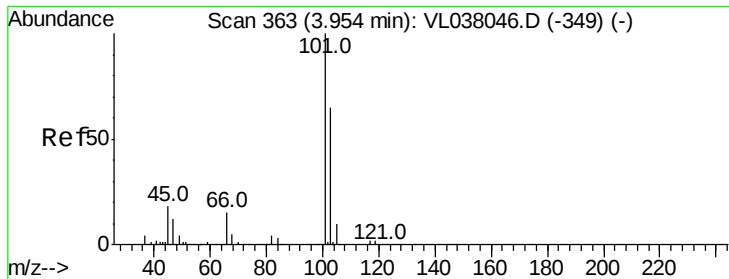
Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021



#10
 Heptane
 Concen: 0.152 ppbv m
 RT: 8.08 min Scan# 1645
 Delta R.T. -0.04 min
 Lab File: VL038173.D
 Acq: 14 Dec 2021 19:25

Tgt Ion: 43 Resp: 24982
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.4 60.6#



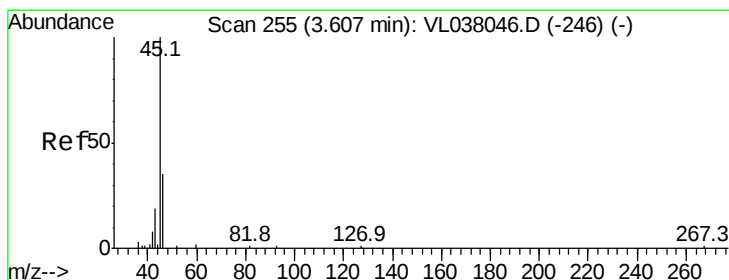
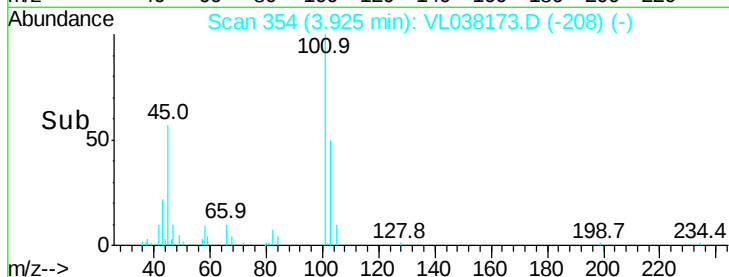
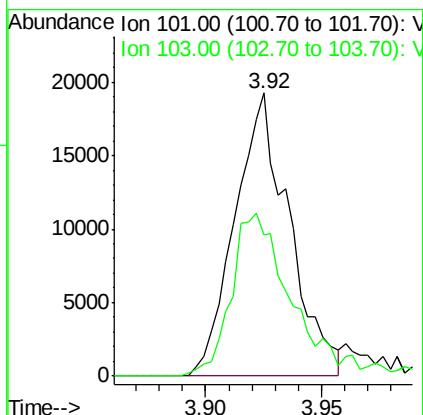
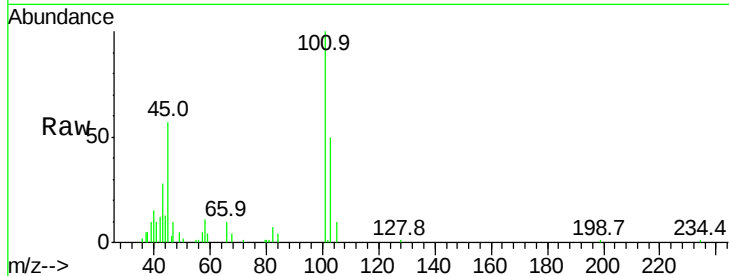


#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 3.92
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion: 1
Ion Ratio
101 100
103 48.

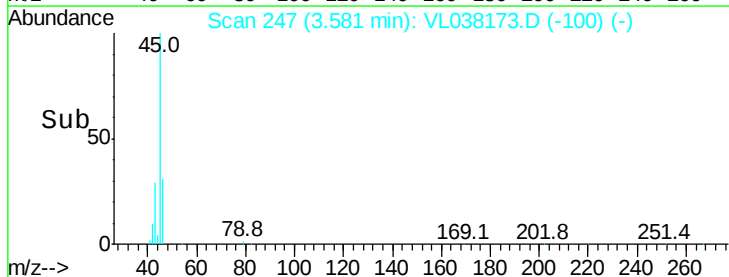
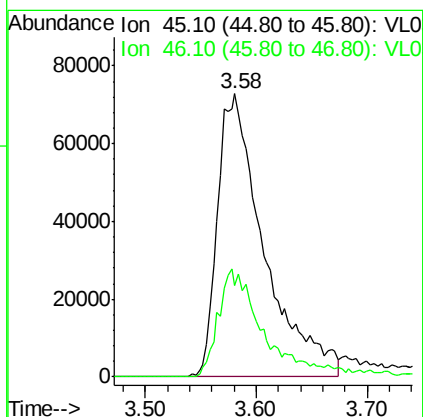
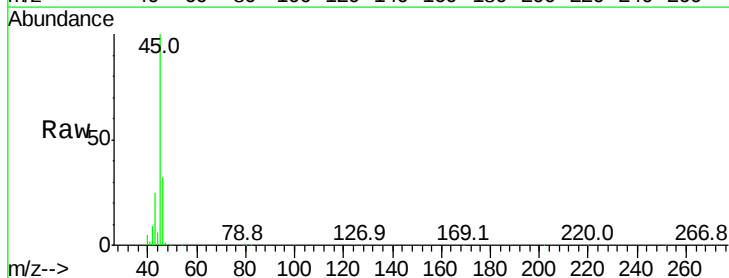
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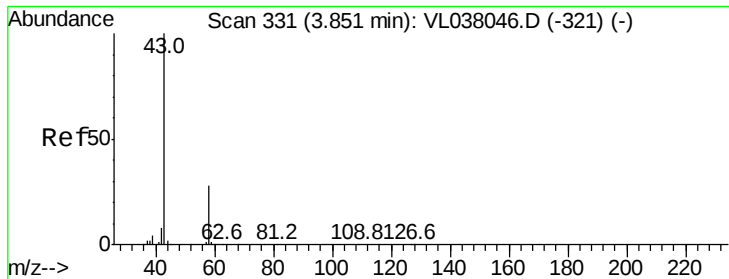
Reviewed By :Amit Patel 12/15/2021
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#13
Ethanol
Concen: 32.933 ppbv m
RT: 3.58 min Scan# 247
Delta R.T. -0.03 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion: 45 Resp: 211898
Ion Ratio Lower Upper
45 100
46 38.8 17.6 70.2



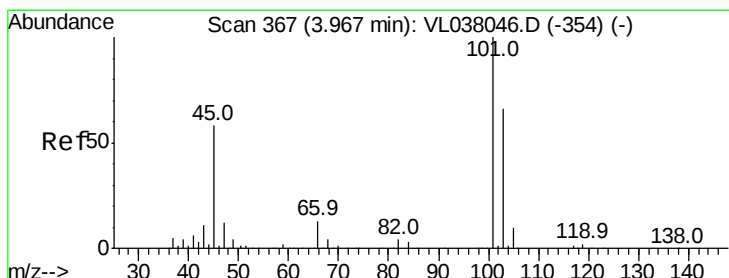
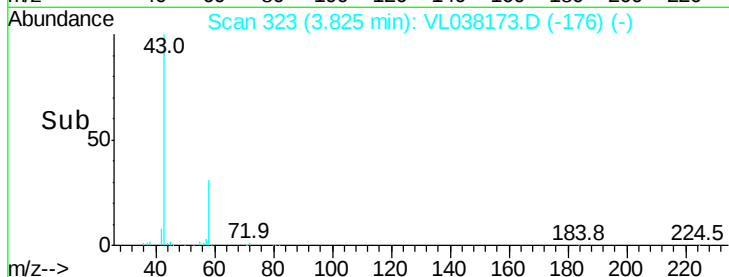
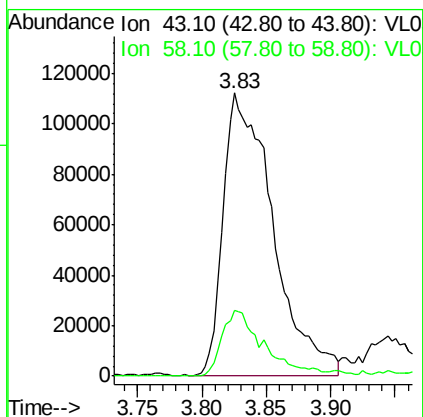
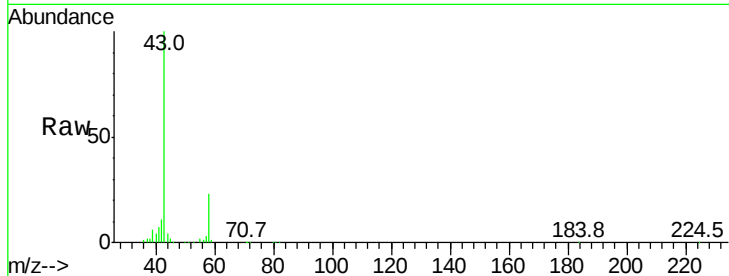


#15
Acetone
Concen: 4.011 ppbv
RT: 3.83
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion:
Ion Ratio
43 100
58 20.

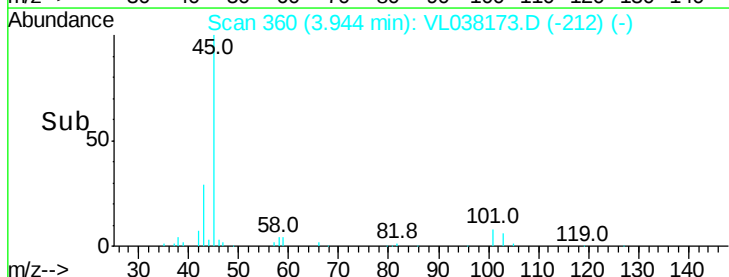
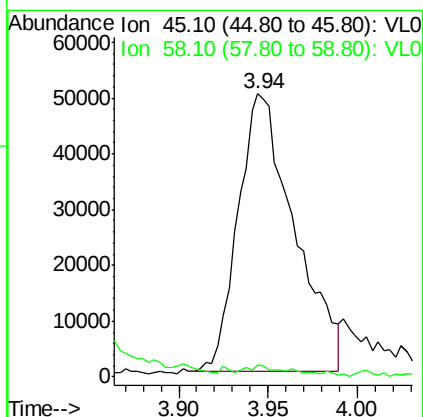
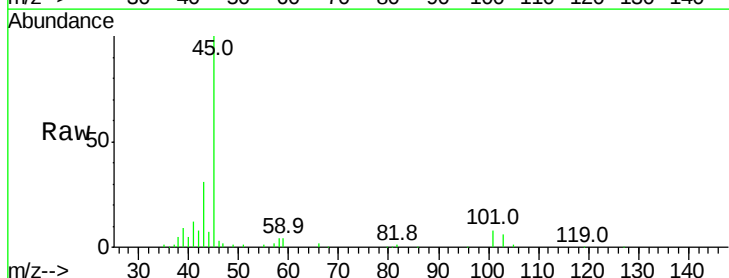
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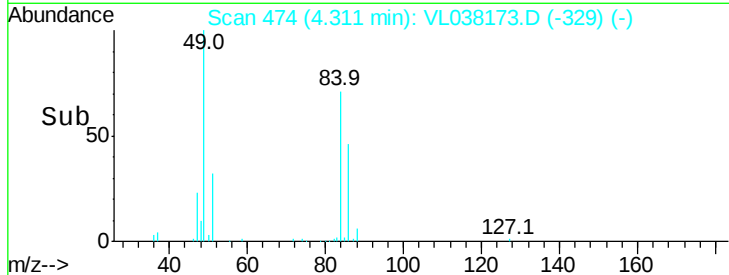
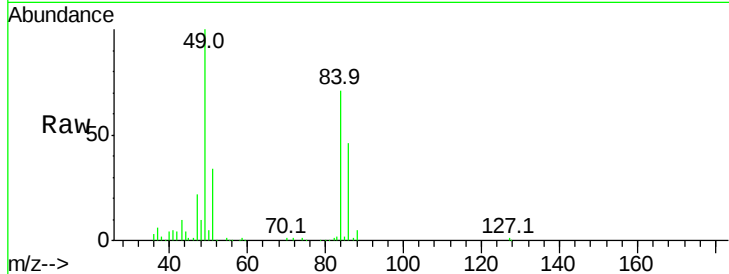
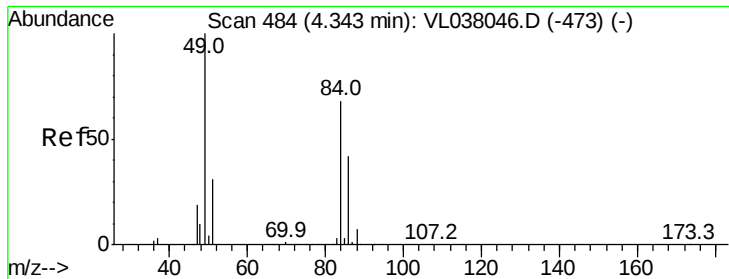
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#19
Isopropyl Alcohol
Concen: 2.033 ppbv
RT: 3.94 min Scan# 360
Delta R.T.: -0.02 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion: 45 Resp: 109630
Ion Ratio Lower Upper
45 100
58 4.6 1.4 2.0#



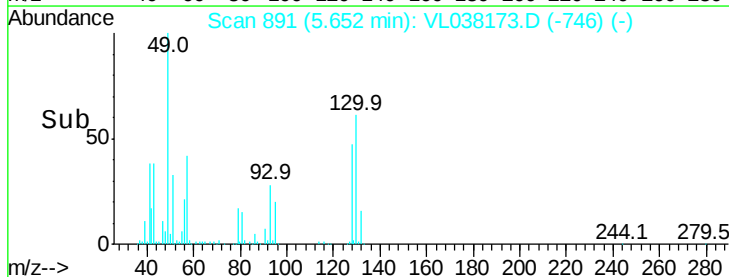
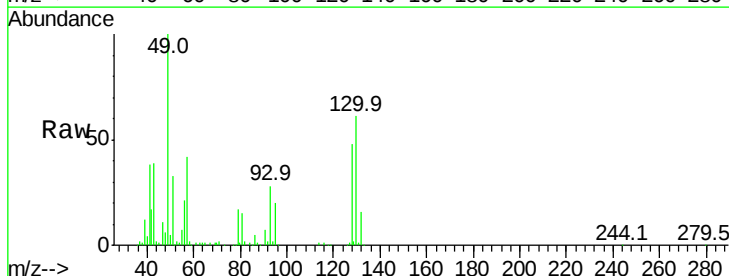
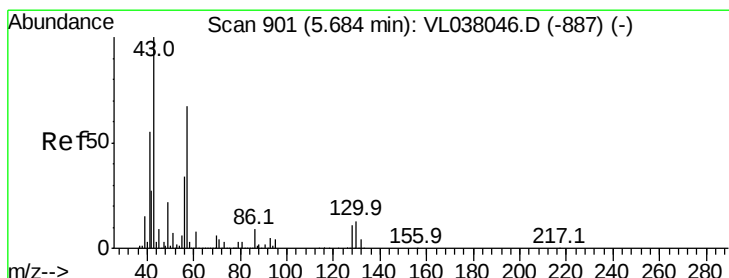
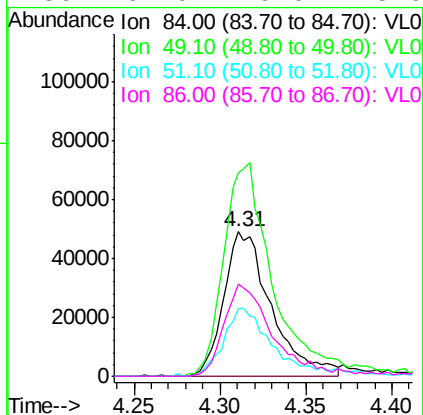


#20
Methvlene Chloride
Concen: 2.255 ppbv
RT: 4.31
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion:
Ion Ratio
84 100
49 139.
51 46.
86 64.0 49.0 73.6

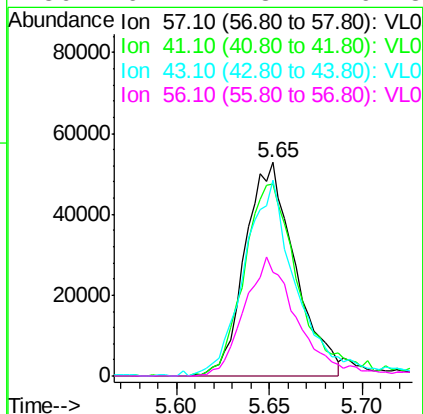
Manual Integrations
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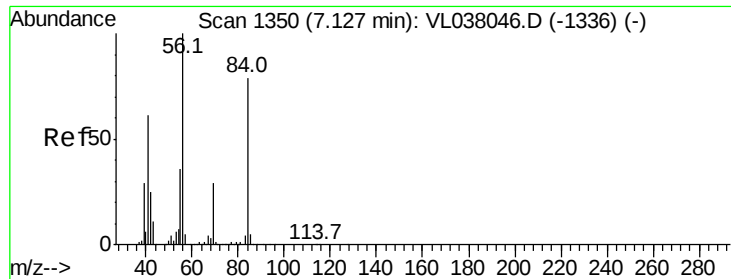
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#26
Hexane
Concen: 0.828 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.03 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion: 57 Resp: 98947
Ion Ratio Lower Upper
57 100
41 101.6 71.4 107.2
43 100.0 174.6 261.8#
56 61.4 43.2 64.8



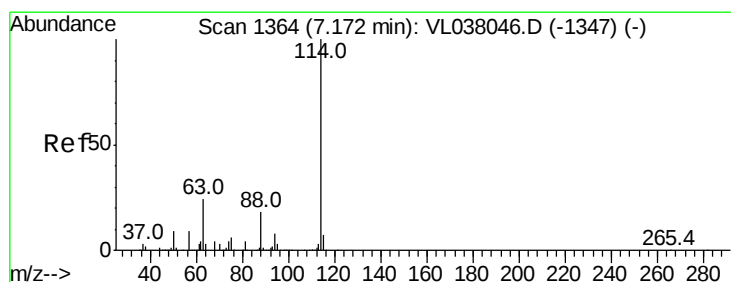
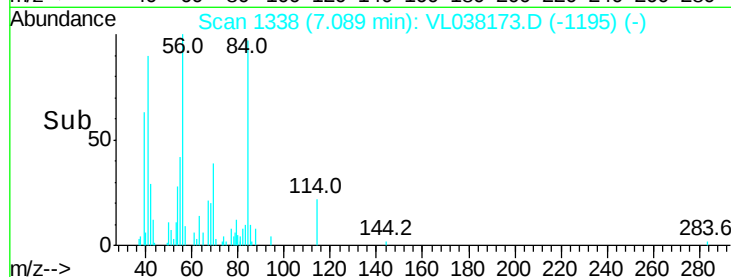
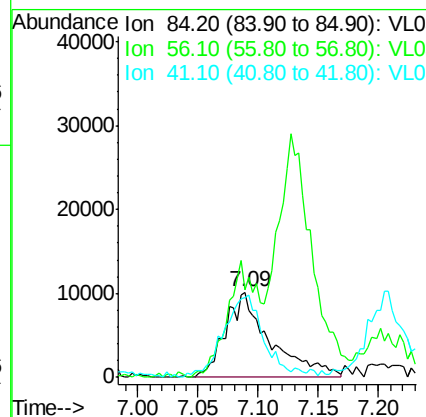
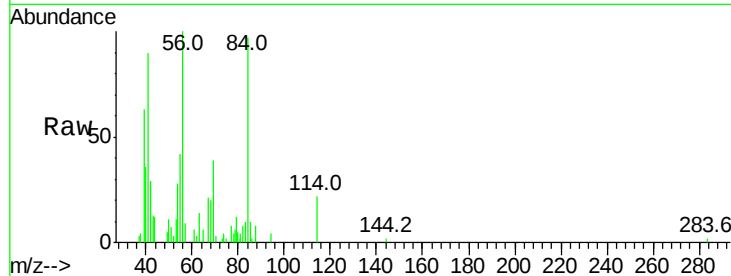


#30
Cvclohexane
Concen: 0.246 ppbv m
RT: 7.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

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

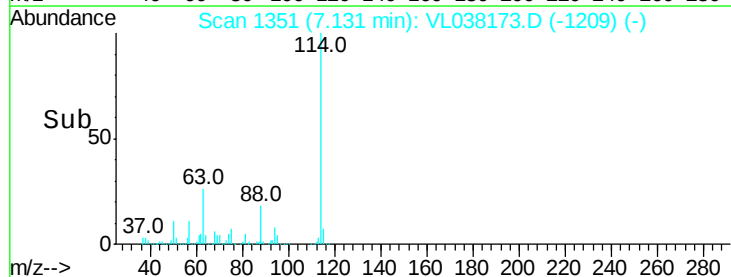
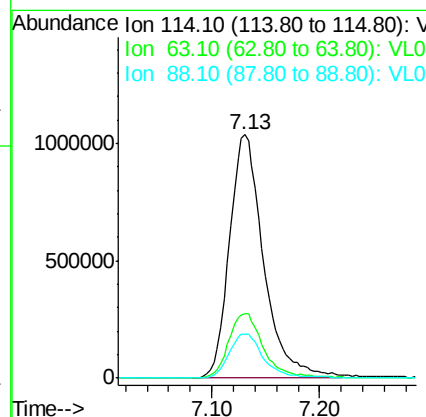
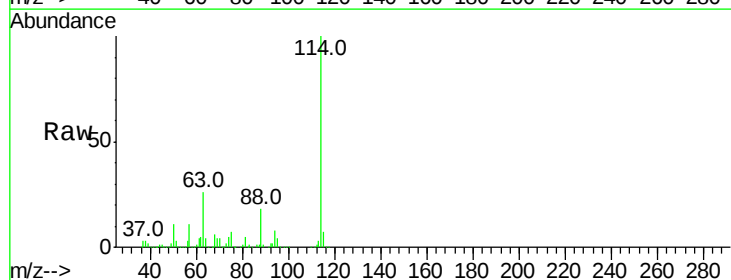
Manual Integrations
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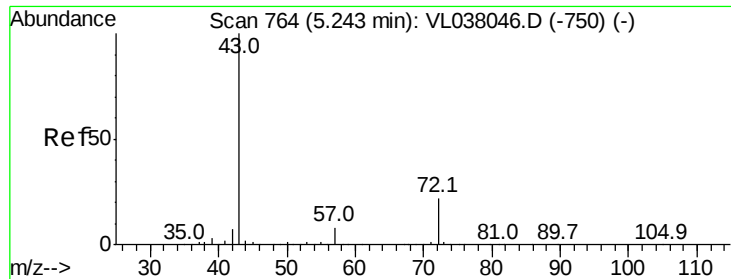
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.04 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion:114 Resp: 2298775
Ion Ratio Lower Upper
114 100
63 27.3 19.7 29.5
88 18.7 14.4 21.6



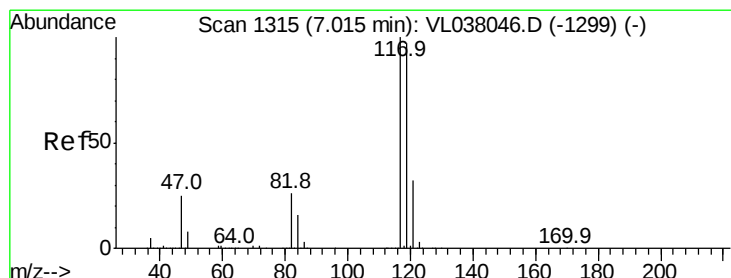
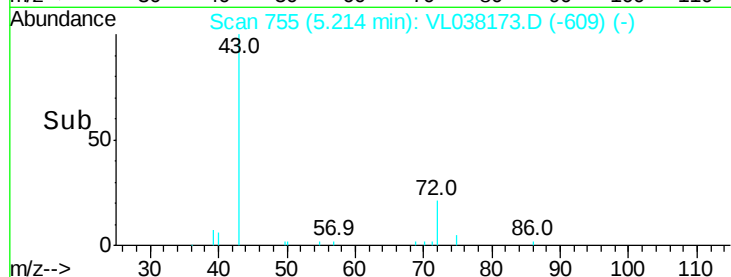
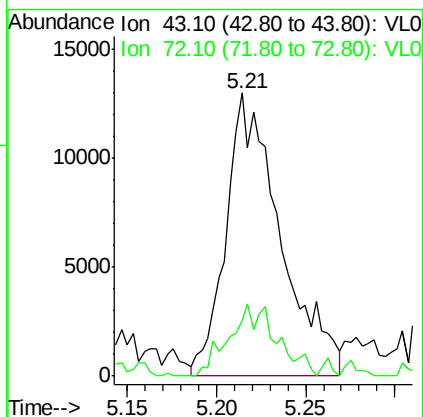
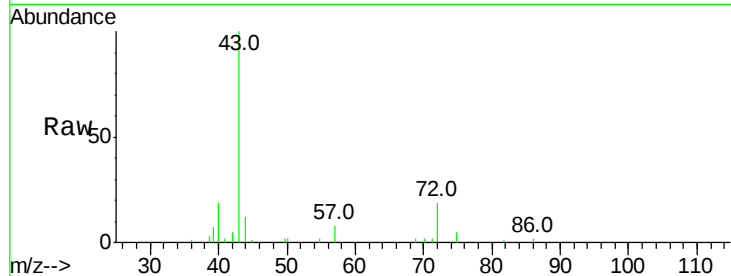


#34
2-Butanone
Concen: 0.298 ppbv m
RT: 5.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion:
Ion Ratio
43 100
72 0.

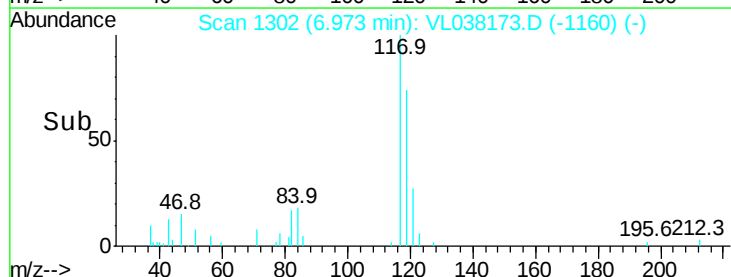
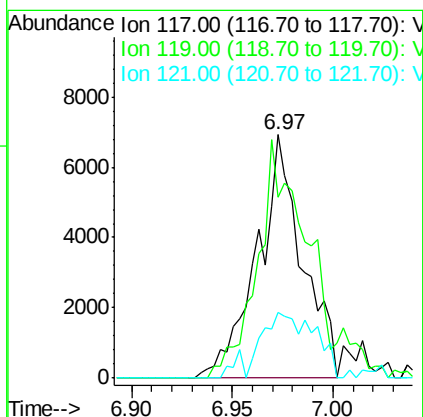
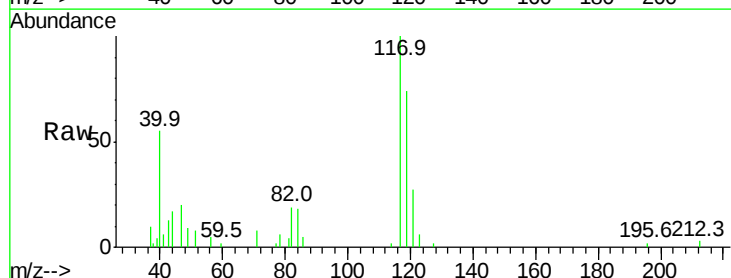
Manual Integrations
APPROVED

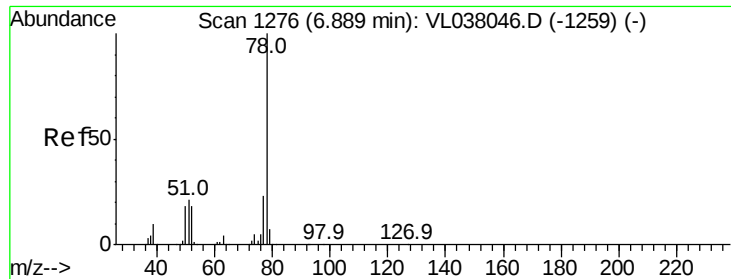
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 6.97 min Scan# 1302
Delta R.T. -0.04 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion:117 Resp: 10740
Ion Ratio Lower Upper
117 100
119 74.4 77.7 116.5#
121 27.0 25.6 38.4



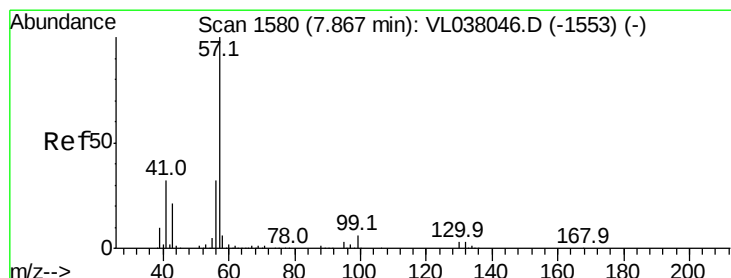
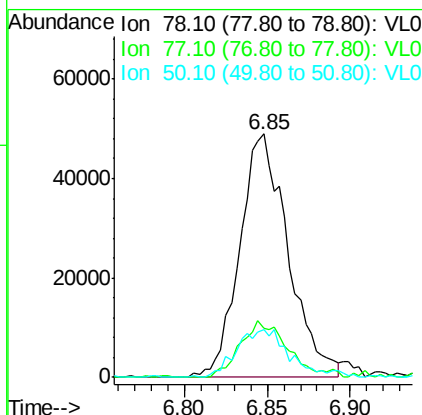
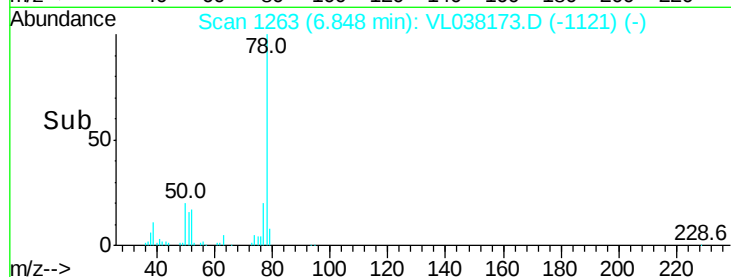
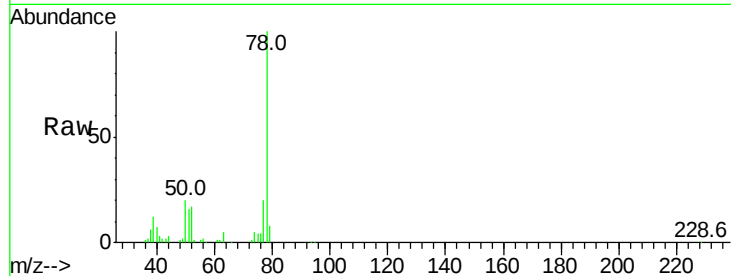


#36
Benzene
Concen: 0.434 ppbv
RT: 6.85
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 19:25

Tot Ion:
Ion Ratio
78 100
77 20.
50 19.

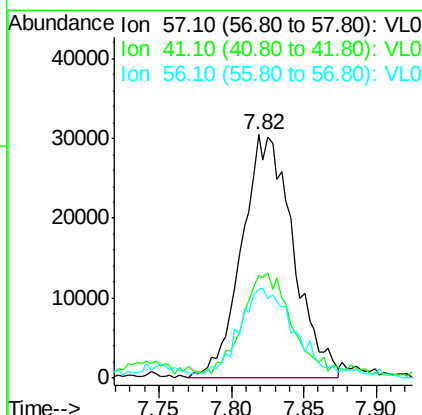
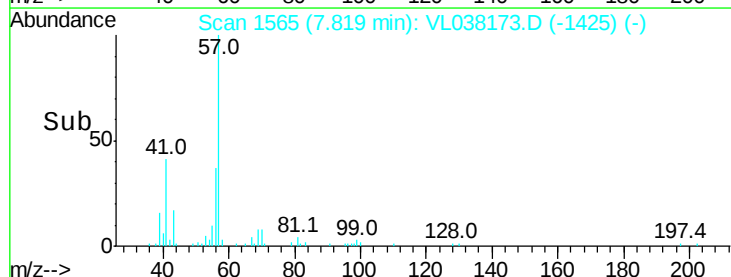
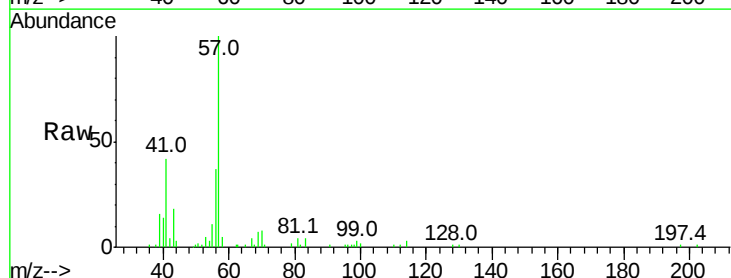
Manual Integrations
APPROVED

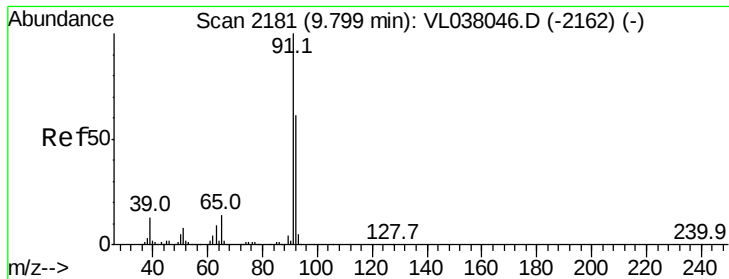
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#44
2,2,4-Trimethylpentane
Concen: 0.196 ppbv m
RT: 7.82 min Scan# 1565
Delta R.T. -0.05 min
Lab File: VL038173.D
Acq: 14 Dec 2021 19:25

Tgt Ion: 57 Resp: 75072
Ion Ratio Lower Upper
57 100
41 0.0 25.8 38.6#
56 0.0 25.6 38.4#





#53

Toluene

Concen: 0.623 ppbv

RT: 9.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 19:25 AA-U

Tot Ion:

Ion Ratio

91 100

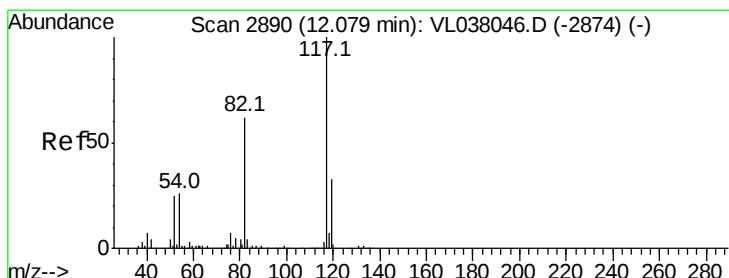
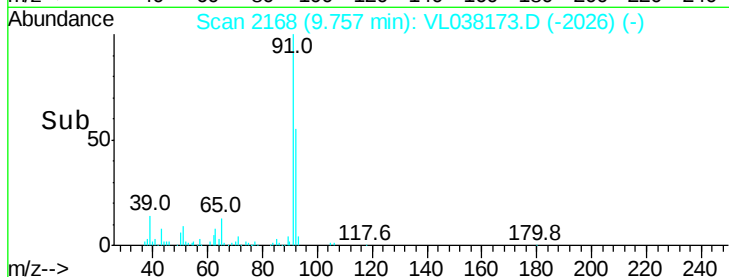
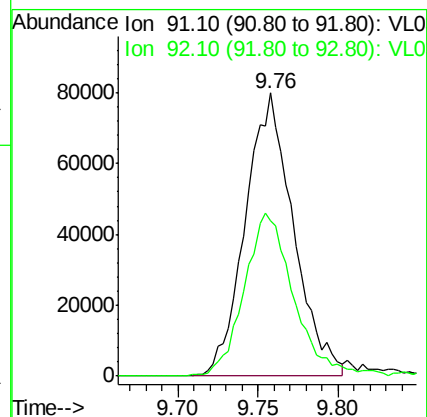
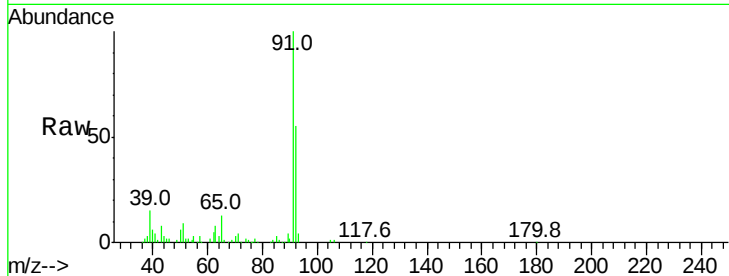
92 61.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.03 min Scan# 2875

Delta R.T. -0.05 min

Lab File: VL038173.D

Acq: 14 Dec 2021 19:25

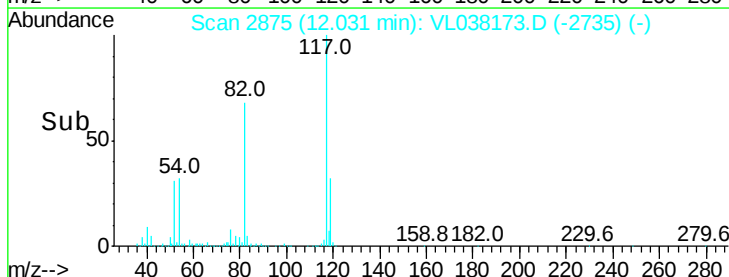
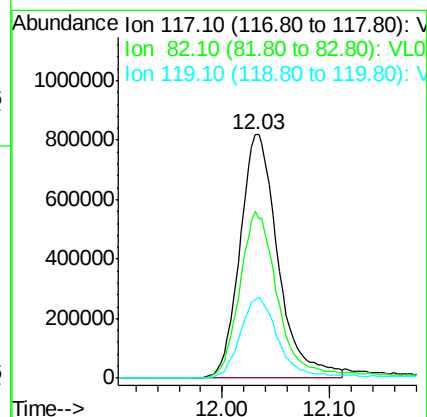
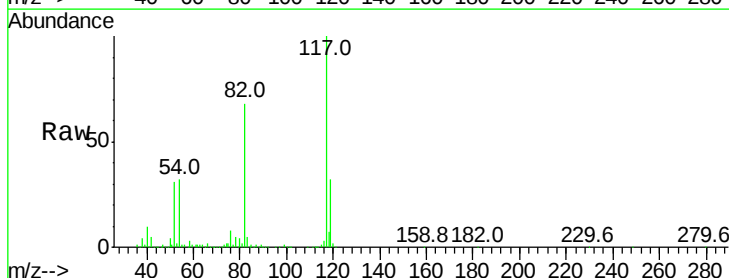
Tgt Ion:117 Resp: 2015781

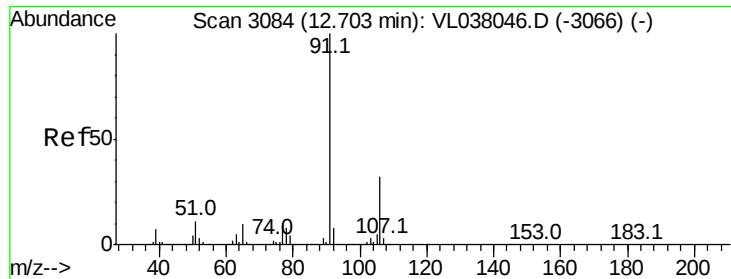
Ion Ratio Lower Upper

117 100

82 70.6 52.8 79.2

119 34.2 26.8 40.2





#58

Ethyl Benzene

Concen: 0.103 ppbv m

RT: 12.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 19:25

Tot Ion:

Ion Ratio

91 100

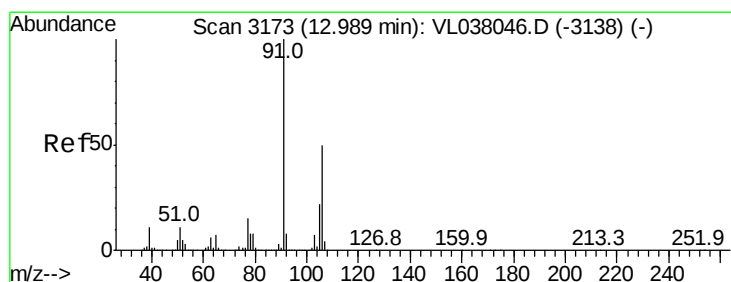
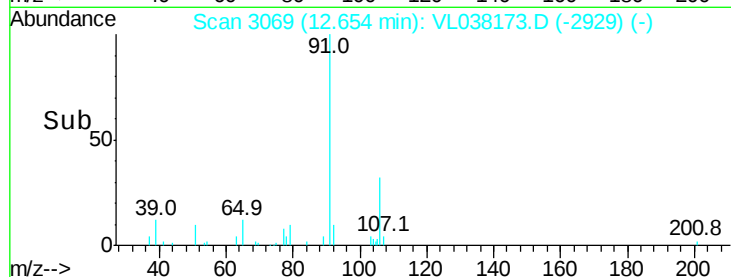
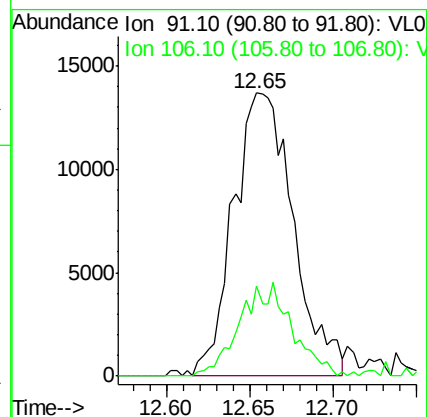
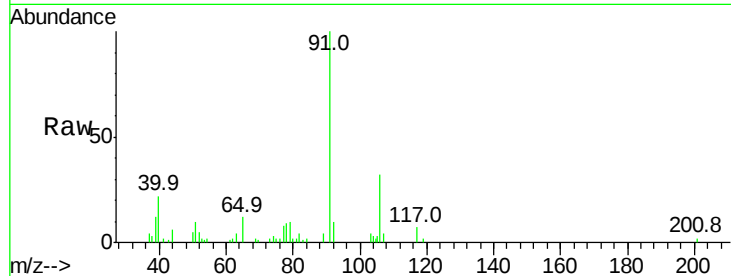
106 32.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#59

m/p-Xylene

Concen: 0.331 ppbv m

RT: 12.91 min Scan# 3148

Delta R.T. -0.08 min

Lab File: VL038173.D

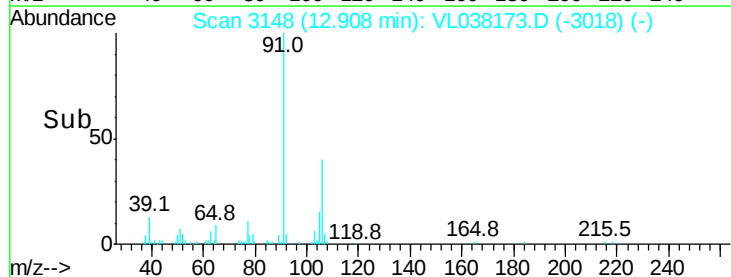
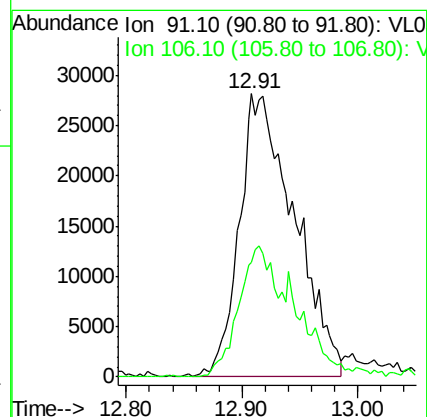
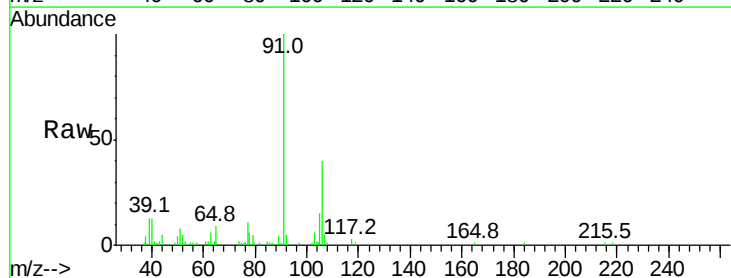
Acq: 14 Dec 2021 19:25

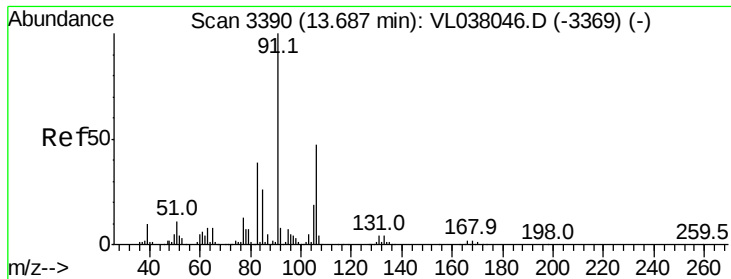
Tgt Ion: 91 Resp: 92935

Ion Ratio Lower Upper

91 100

106 0.0 38.1 57.1#





#60

o-Xylene

Concen: 0.172 ppbv m

RT: 13.64

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 19:25

Tot Ion:

Ion Ratio

91 100

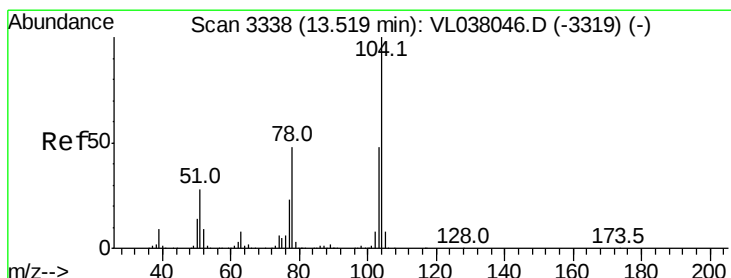
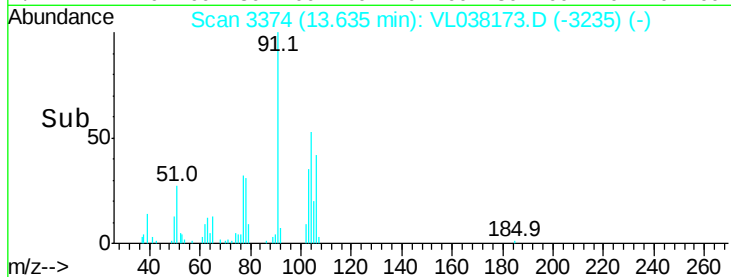
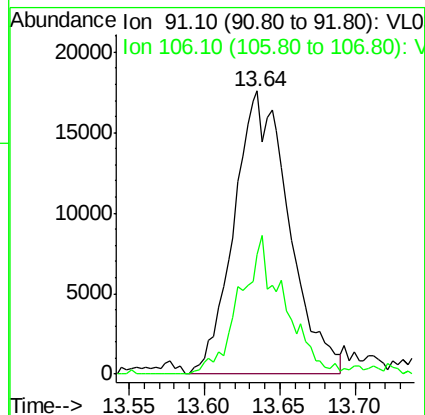
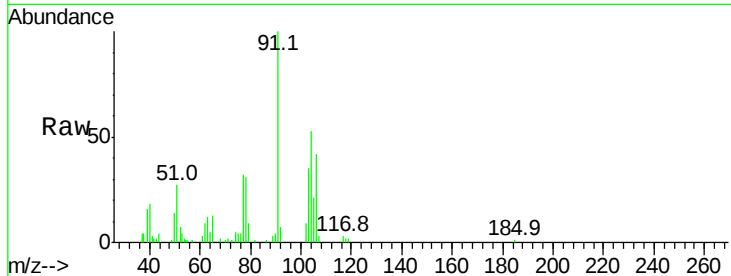
106 39.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#61

Styrene

Concen: 8.327 ppbv

RT: 13.47 min Scan# 3324

Delta R.T. -0.05 min

Lab File: VL038173.D

Acq: 14 Dec 2021 19:25

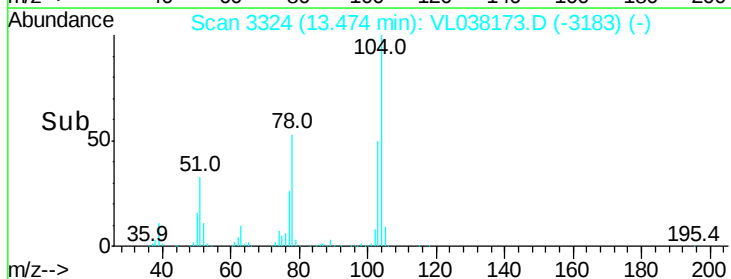
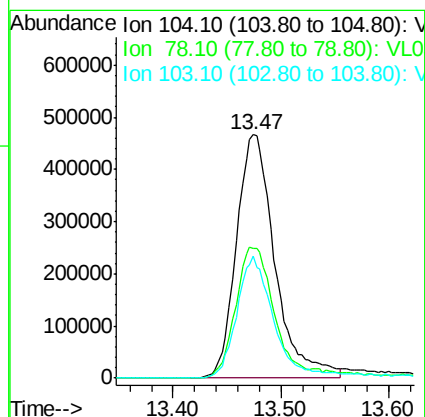
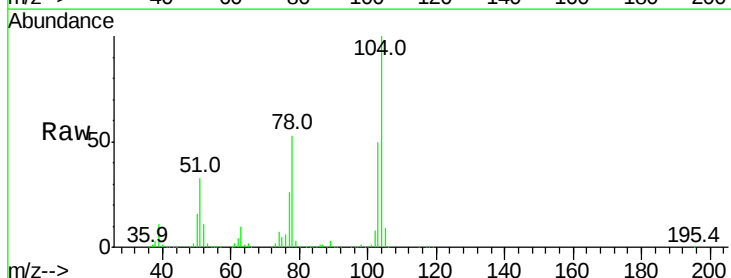
Tgt Ion:104 Resp: 1161563

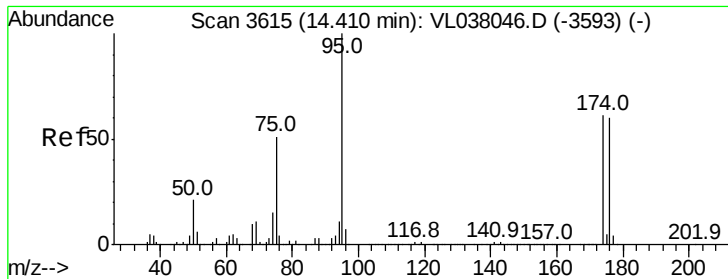
Ion Ratio Lower Upper

104 100

78 56.9 39.8 59.6

103 49.1 38.2 57.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.092 ppbv

RT: 14.36

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 19:25

Tot Ion:

Ion Ratio

95 100

174 64.

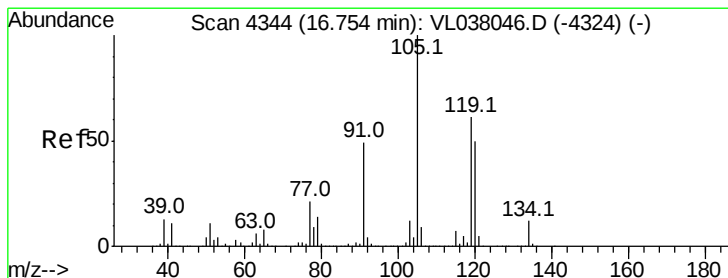
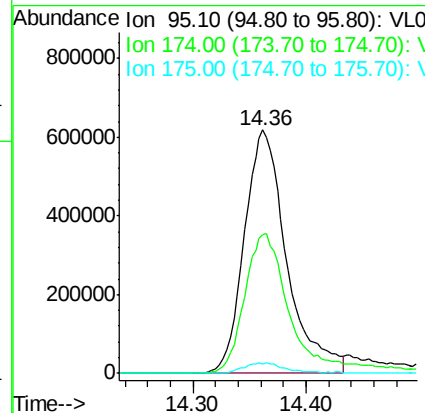
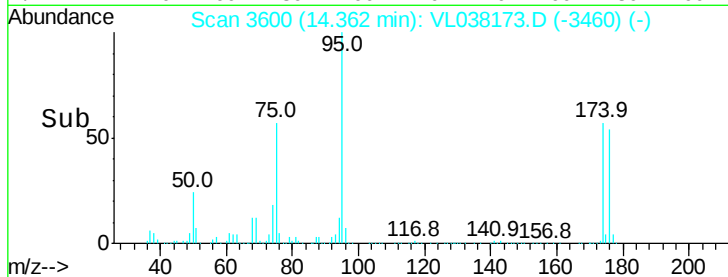
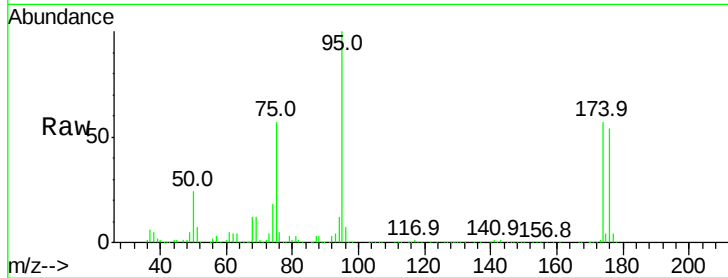
175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.107 ppbv

RT: 16.71 min Scan# 4331

Delta R.T. -0.04 min

Lab File: VL038173.D

Acq: 14 Dec 2021 19:25

Tgt Ion:105 Resp: 30401

Ion Ratio Lower Upper

105 100

120 32.0 40.1 60.1#

91 22.0 39.8 59.8#

77 11.2 16.6 25.0#

