

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038177.D
 Acq On : 14 Dec 2021 22:03
 Operator : SY/AP
 Sample : M5075-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-DSE

Manual Integrations
 APPROVED

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

Quant Time: Dec 15 06:57:54 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	925497	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2376406	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.03	117	2122479	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.36	95	1773537	11.58	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	32687m	0.214	ppbv	
3) Chlorodifluoromethane	2.97	51	46579m	0.240	ppbv	
4) Chloromethane	3.12	50	28591	0.432	ppbv	92
9) Propene	2.99	41	119353	1.667	ppbv	92
10) Heptane	8.07	43	39176m	0.221	ppbv	
11) Trichlorofluoromethane	3.92	101	29782	0.205	ppbv	91
13) Ethanol	3.58	45	235113	33.990	ppbv	91
15) Acetone	3.82	43	855111	10.657	ppbv	92
19) Isopropyl Alcohol	3.95	45	94281	1.626	ppbv #	1
20) Methylene Chloride	4.31	84	936298	20.832	ppbv	99
26) Hexane	5.65	57	757903	5.896	ppbv #	45
30) Cyclohexane	7.09	84	37035	0.317	ppbv #	87
34) 2-Butanone	5.21	43	45980m	0.480	ppbv	
35) Carbon Tetrachloride	6.98	117	10870m	0.065	ppbv	
36) Benzene	6.84	78	154199	0.650	ppbv	98
41) Tetrahydrofuran	6.01	42	152295	2.560	ppbv	99
44) 2,2,4-Trimethylpentane	7.83	57	195698	0.493	ppbv #	83
53) Toluene	9.75	91	351078m	1.287	ppbv	
58) Ethyl Benzene	12.65	91	66420m	0.189	ppbv	
59) m/p-Xylene	12.91	91	184589m	0.625	ppbv	
60) o-Xylene	13.64	91	83101	0.303	ppbv	91
61) Styrene	13.50	104	24681380	168.048	ppbv #	85
72) 4-Ethyltoluene	15.79	105	30737m	0.097	ppbv	
74) 1,2,4-Trimethylbenzene	16.71	105	77412m	0.259	ppbv	

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

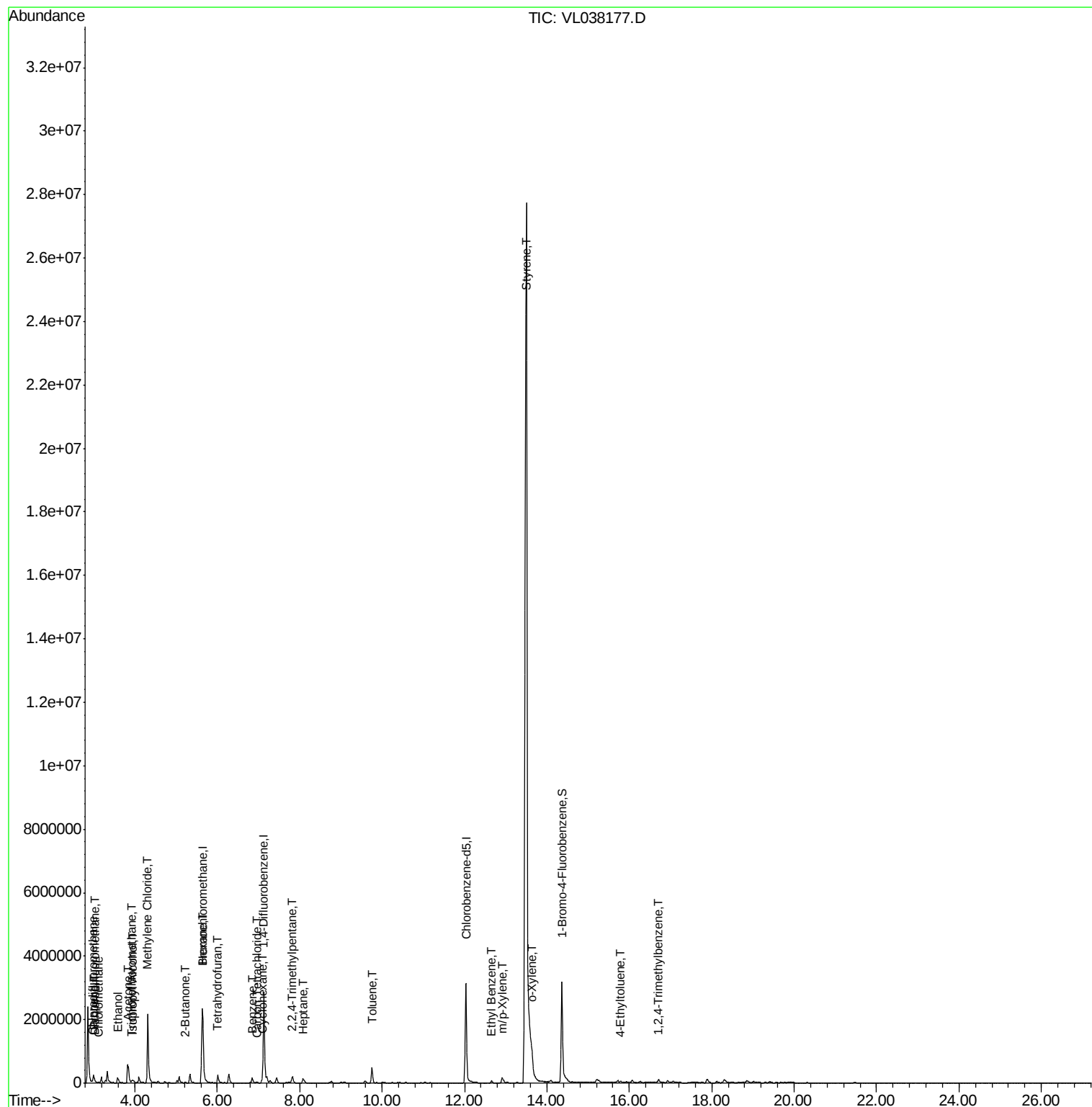
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121421\
Data File : VL038177.D
Acq On : 14 Dec 2021 22:03
Operator : SY/AP
Sample : M5075-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

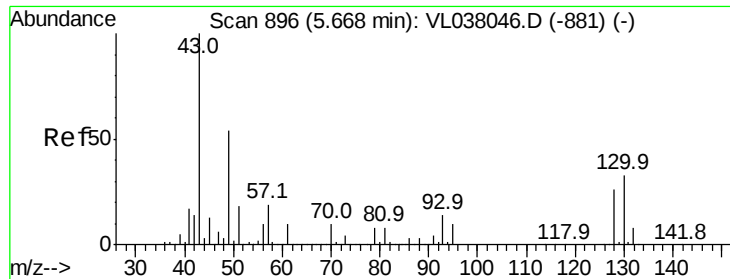
Instrument :
MSVOA_L
ClientSampleId :
AA-DSE

Quant Time: Dec 15 06:57:54 2021
Quant Method : Z:\V0ASRV\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_1

Delta R.T. ClientSampleId:

Lab File: AA-DSE

Acq: 14 Dec 2021 22:03

Tot Ion:

Ion Ratio

49 100

128 46.

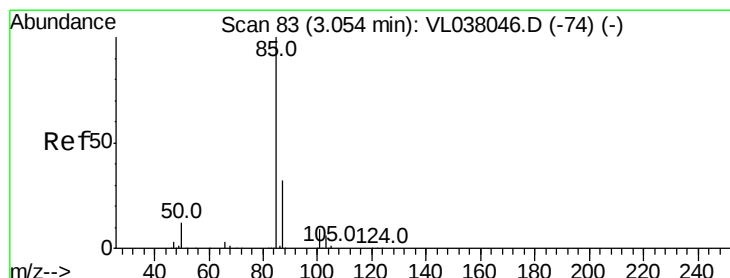
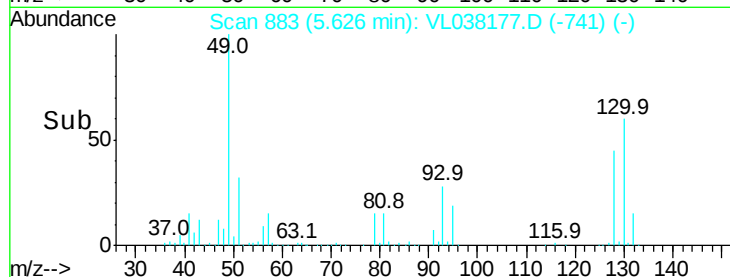
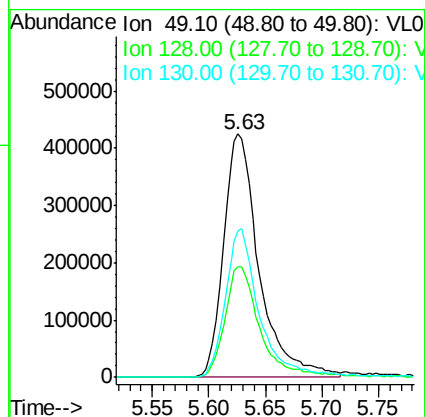
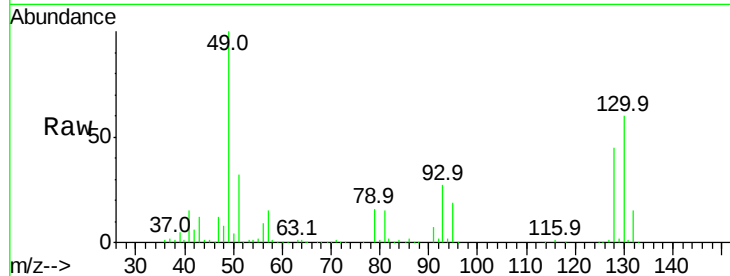
130 59.

Manual Integrations

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Supervised By :Semsettin Yesilyurt 12/16/2021



#2

Dichlorodifluoromethane

Concen: 0.214 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL038177.D

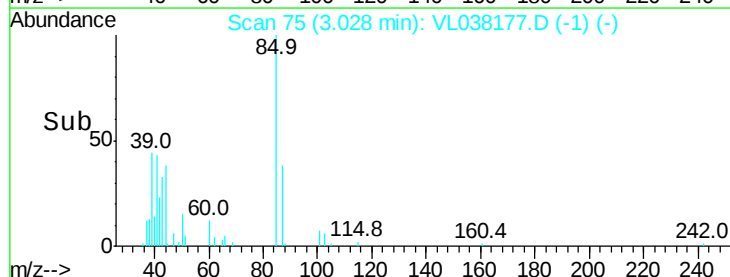
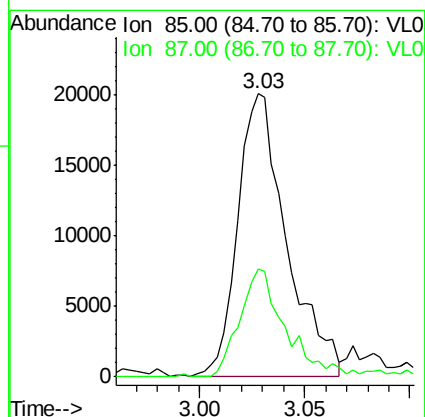
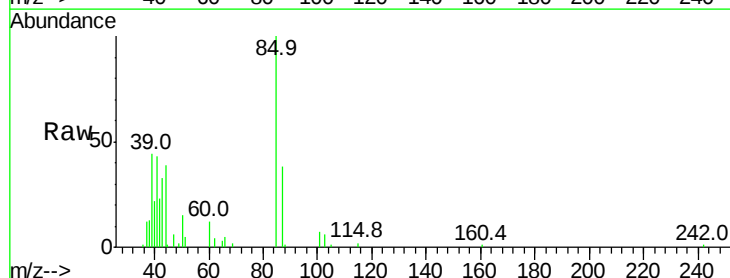
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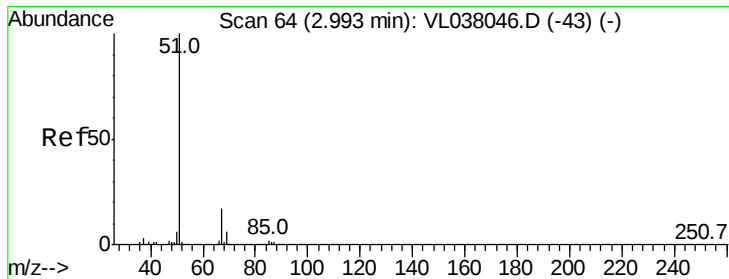
Tgt Ion: 85 Resp: 32687

Ion Ratio Lower Upper

85 100

87 38.1 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.240 ppbv m

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 22:03

Tot Ion:

Ion Ratio

51 100

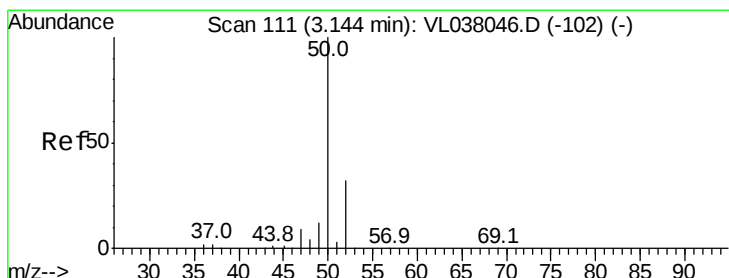
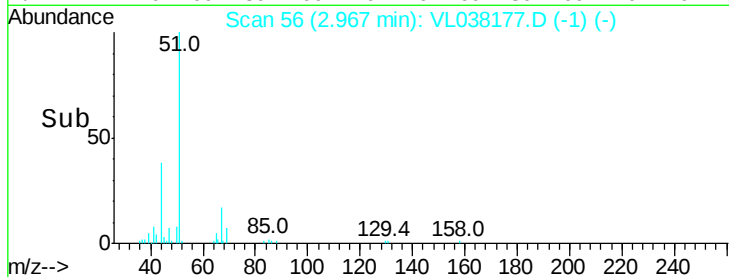
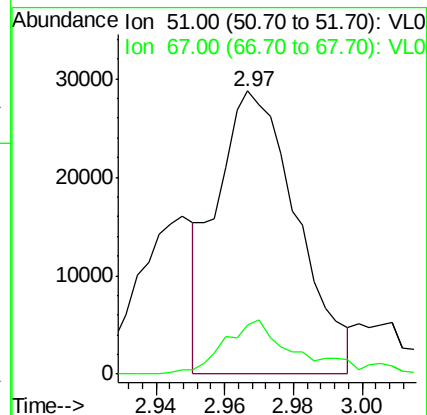
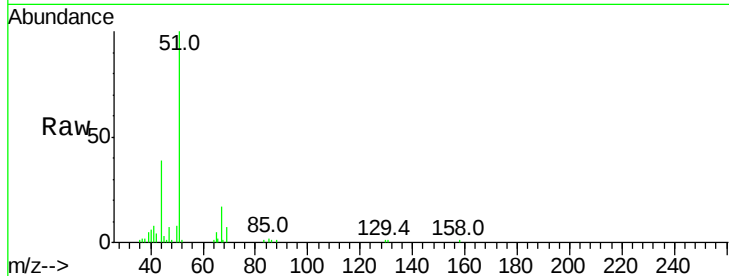
67 18.

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Supervised By :Semsettin Yesilyurt 12/16/2021



#4

Chloromethane

Concen: 0.432 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL038177.D

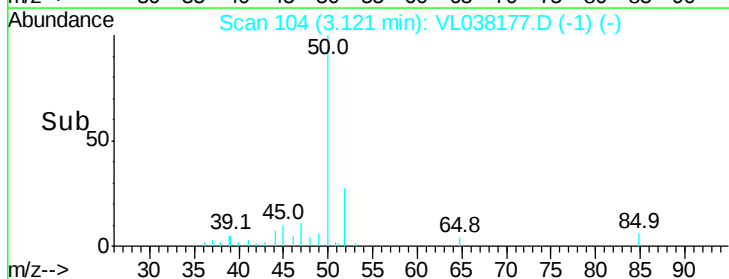
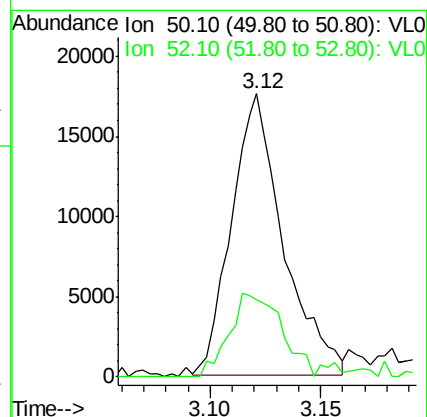
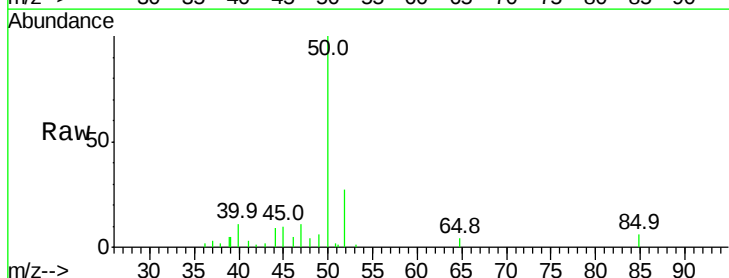
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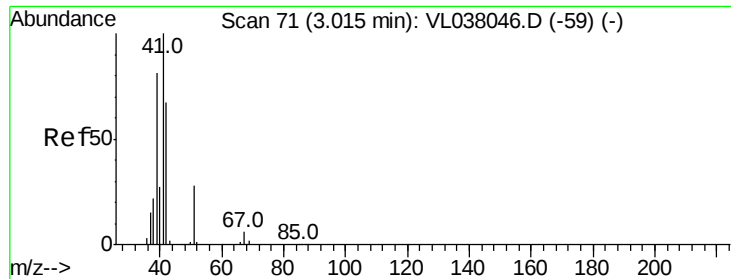
Tgt Ion: 50 Resp: 28591

Ion Ratio Lower Upper

50 100

52 27.3 25.4 38.0



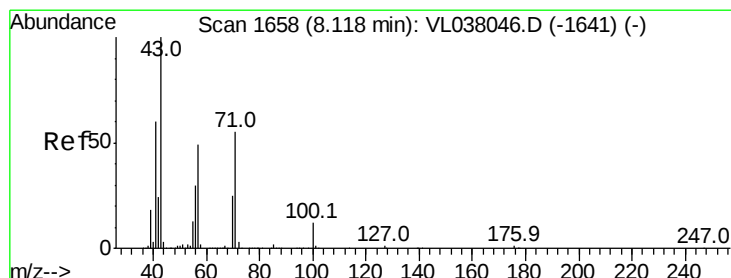
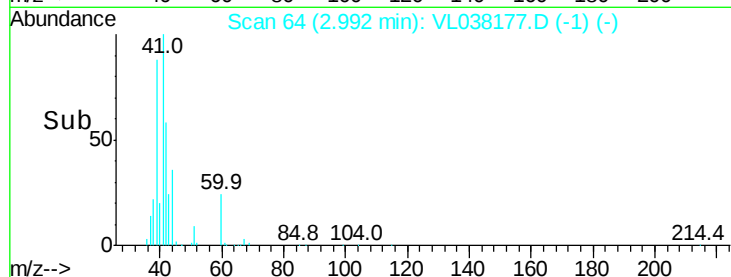
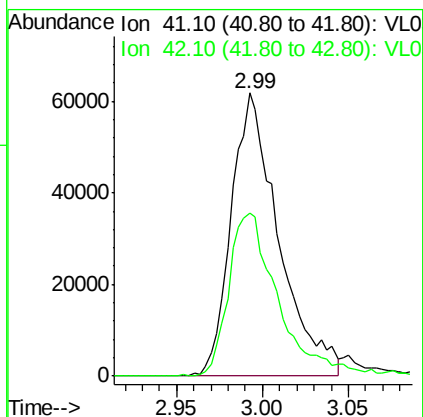
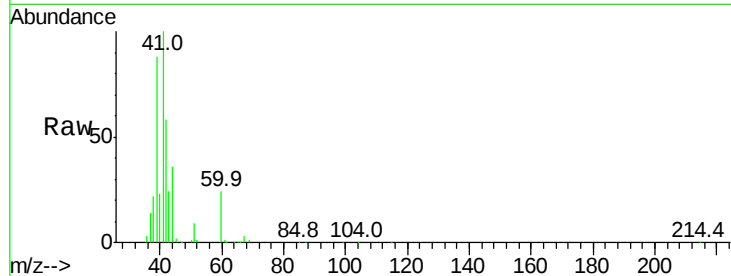


#9
 Propene
 Concen: 1.667 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 22:03

Tot Ion:
 Ion Ratio
 41 100
 42 61.

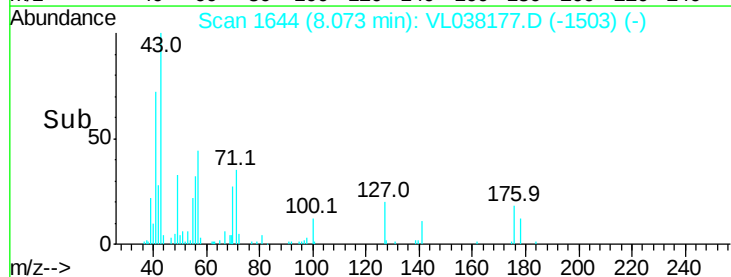
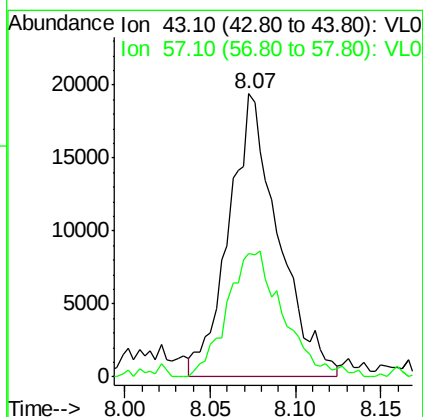
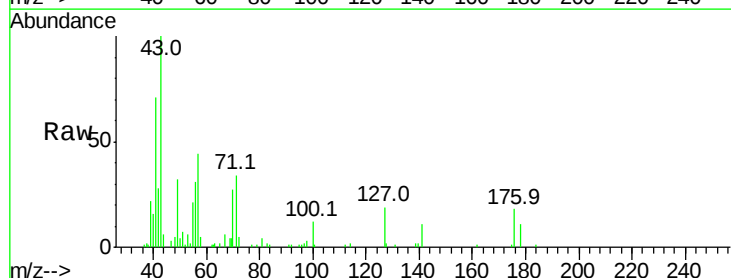
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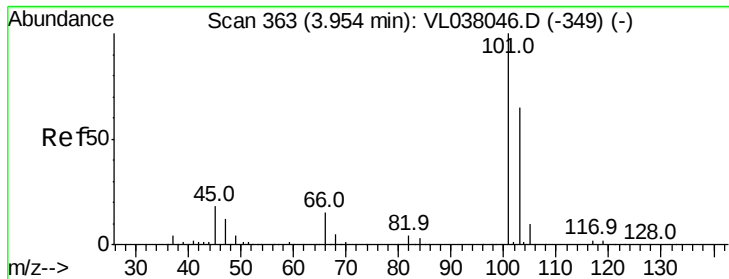
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 Supervised By :Semsettin Yesilyurt 12/16/2021



#10
 Heptane
 Concen: 0.221 ppbv m
 RT: 8.07 min Scan# 1644
 Delta R.T. -0.05 min
 Lab File: VL038177.D
 Acq: 14 Dec 2021 22:03

Tgt Ion: 43 Resp: 39176
 Ion Ratio Lower Upper
 43 100
 57 51.6 40.4 60.6



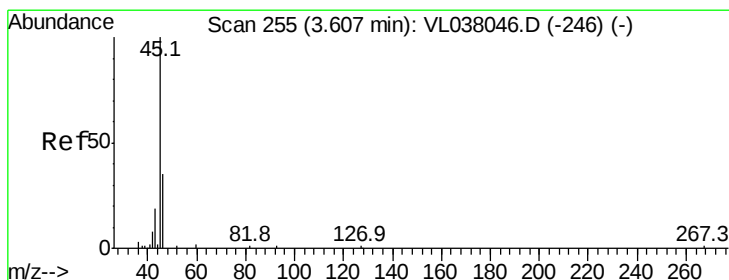
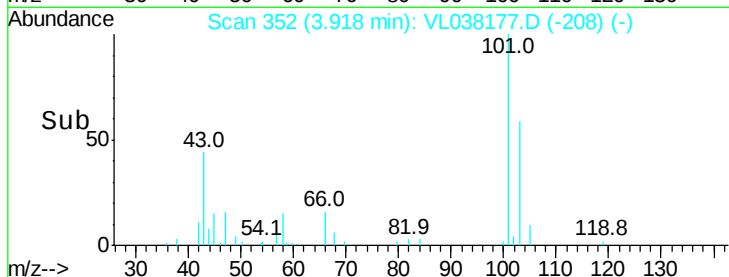
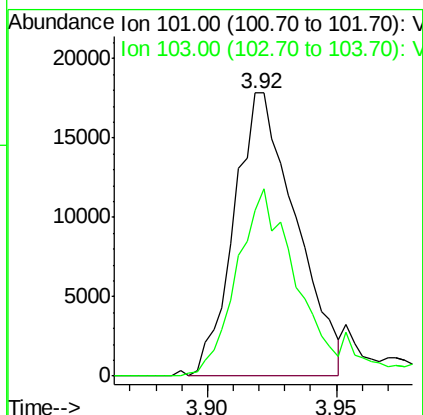
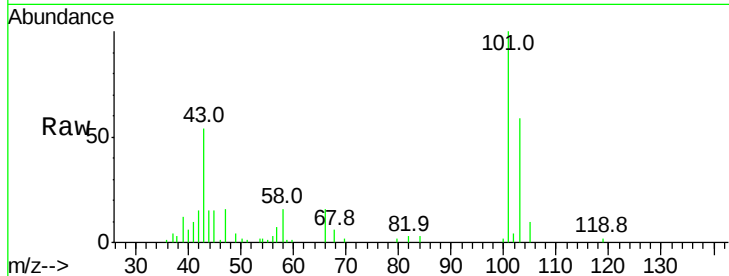


#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.92
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 AA-DSE
 Acq: 14 Dec 2021 22:03

Tot Ion:1
 Ion Rati
 101 100
 103 57.

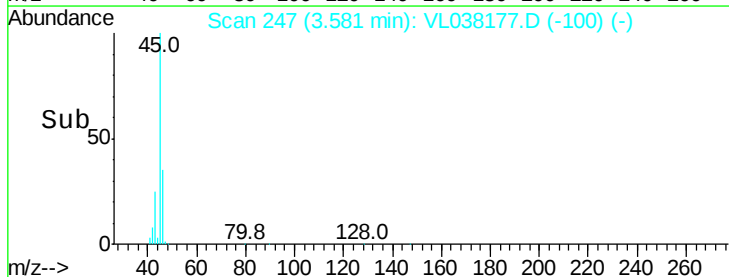
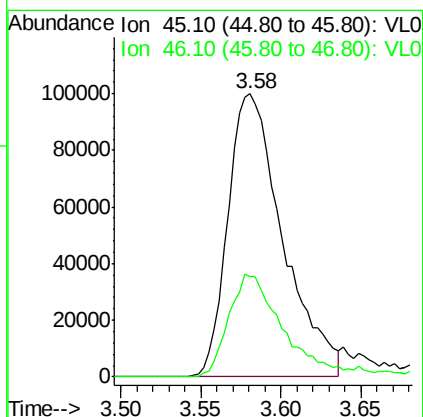
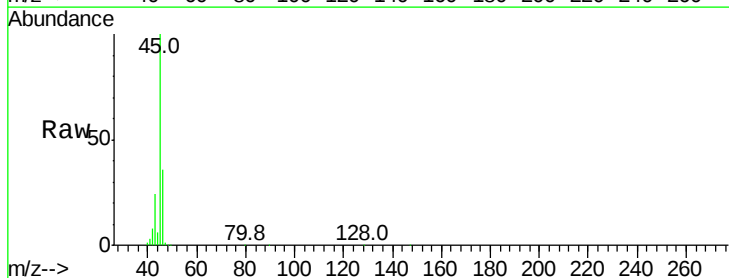
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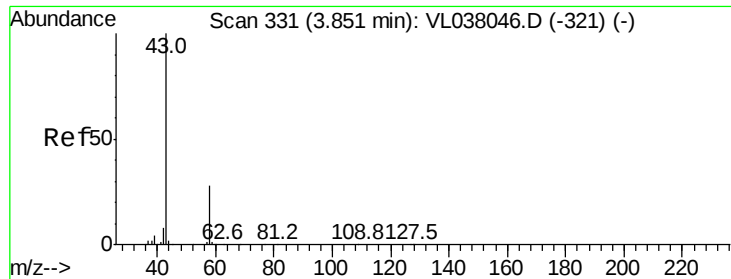
Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021



#13
 Ethanol
 Concen: 33.990 ppbv
 RT: 3.58 min Scan# 247
 Delta R.T. -0.03 min
 Lab File: VL038177.D
 Acq: 14 Dec 2021 22:03

Tgt Ion: 45 Resp: 235113
 Ion Ratio Lower Upper
 45 100
 46 38.0 17.6 70.2



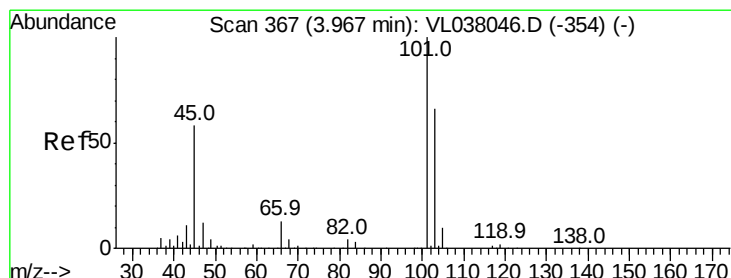
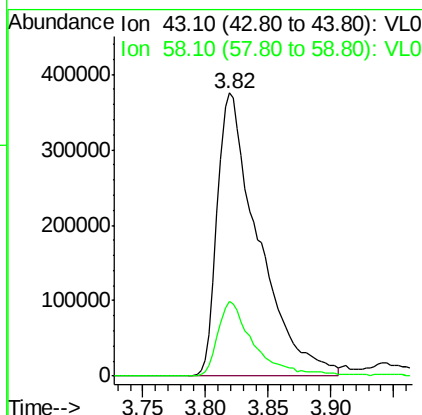
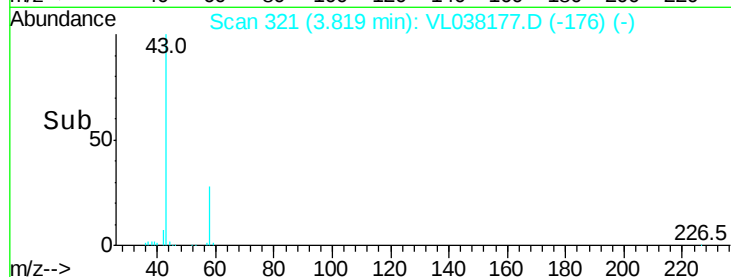
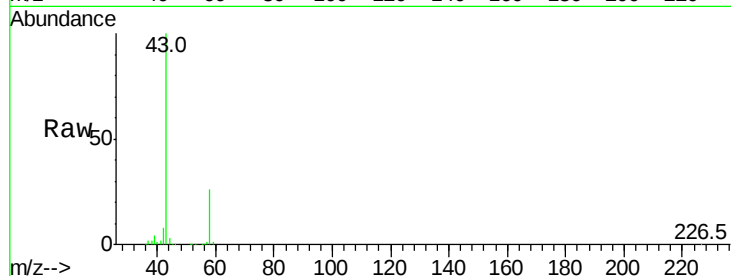


#15
Acetone
Concen: 10.657 ppbv
RT: 3.82
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
43 100
58 23.

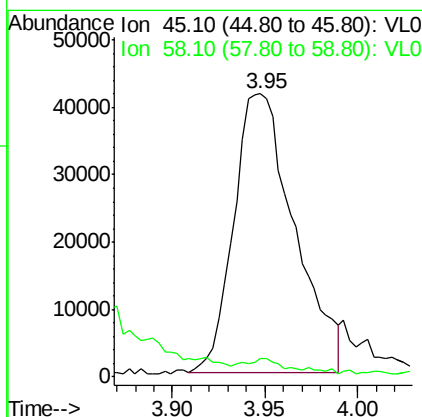
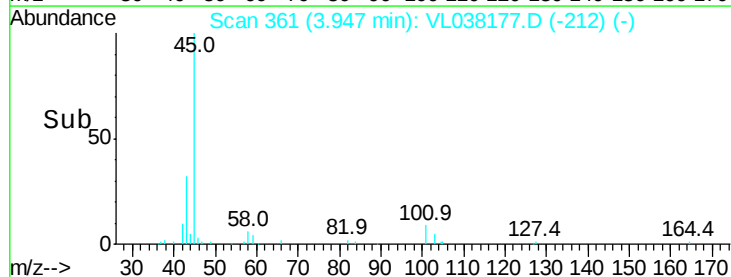
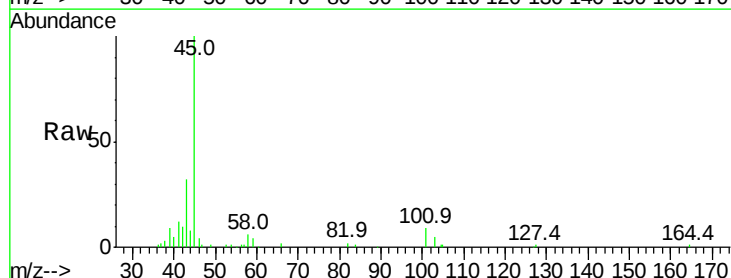
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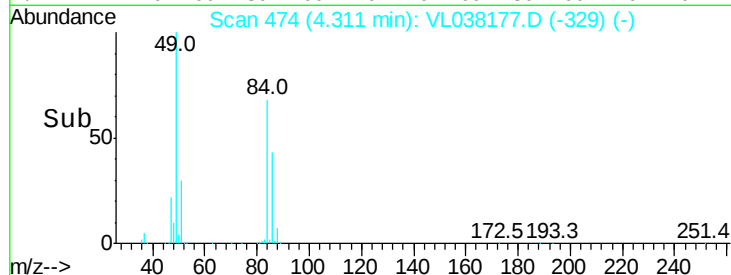
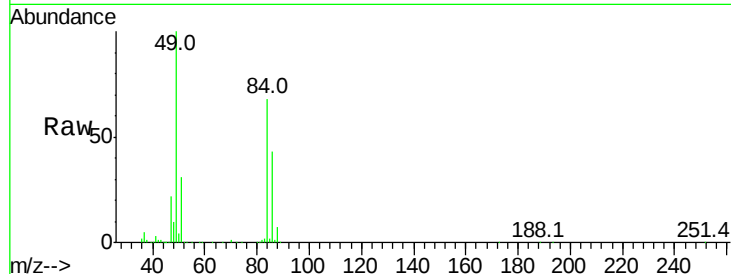
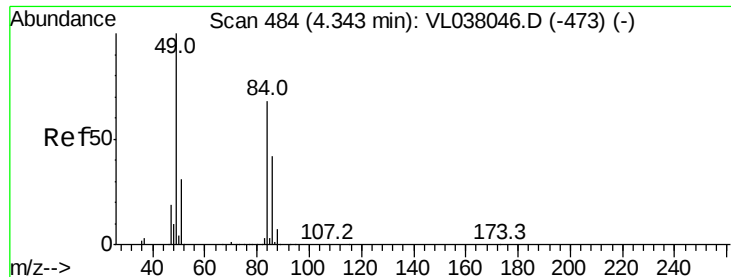
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#19
Isopropyl Alcohol
Concen: 1.626 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.02 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 45 Resp: 94281
Ion Ratio Lower Upper
45 100
58 213.4 1.4 2.0#



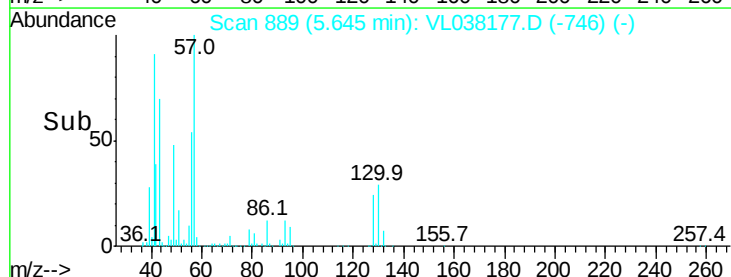
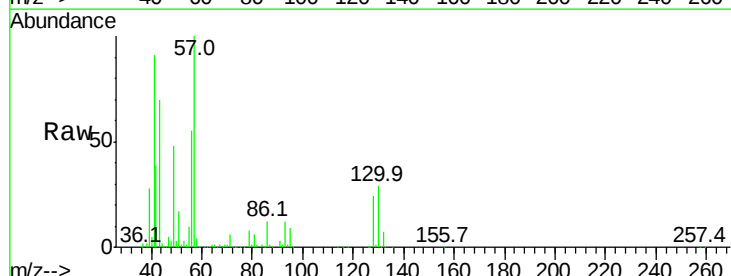
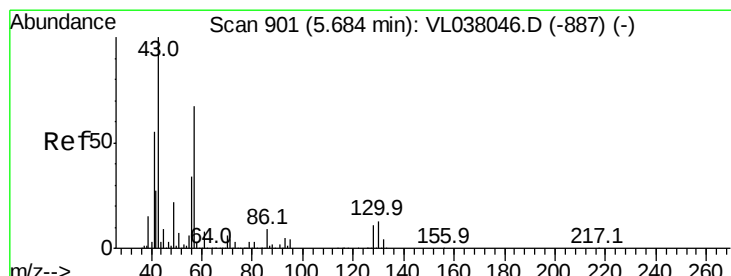
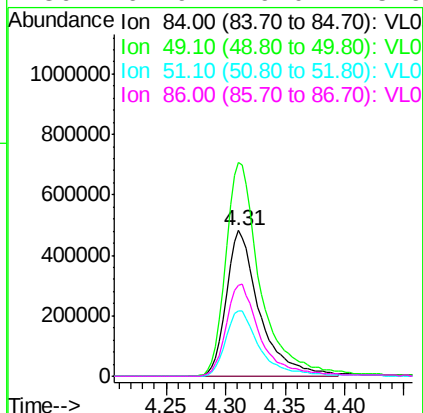


#20
Methvlene Chloride
Concen: 20.832 ppbv
RT: 4.31
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
84 100
49 146.
51 44.
86 62.9 49.0 73.6

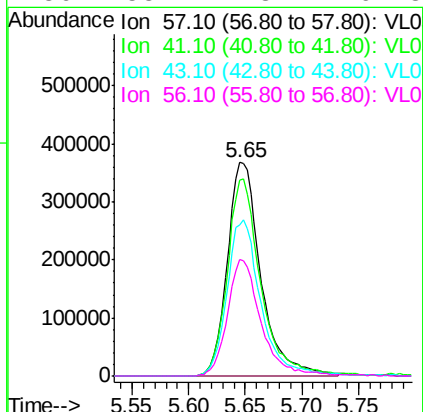
Manual Integrations APPROVED

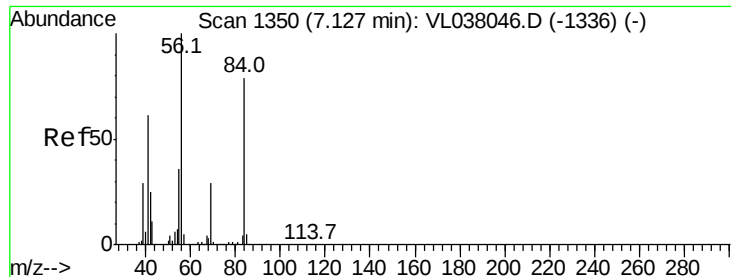
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#26
Hexane
Concen: 5.896 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.04 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 57 Resp: 757903
Ion Ratio Lower Upper
57 100
41 92.9 71.4 107.2
43 74.9 174.6 261.8#
56 55.1 43.2 64.8



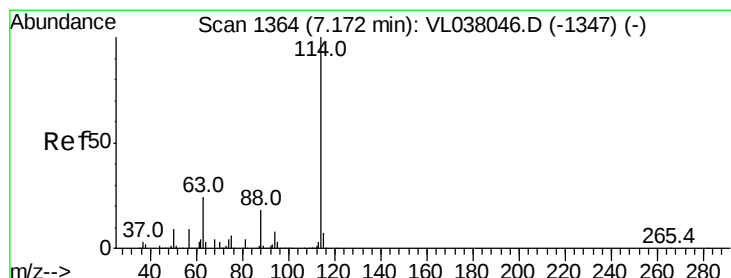
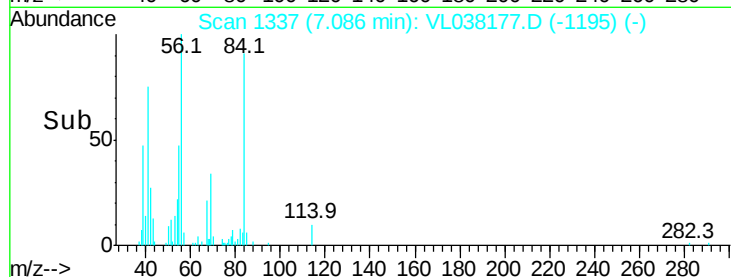
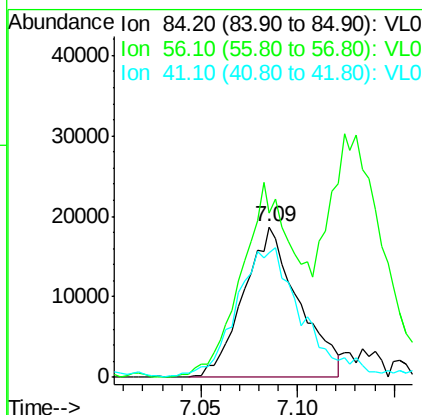
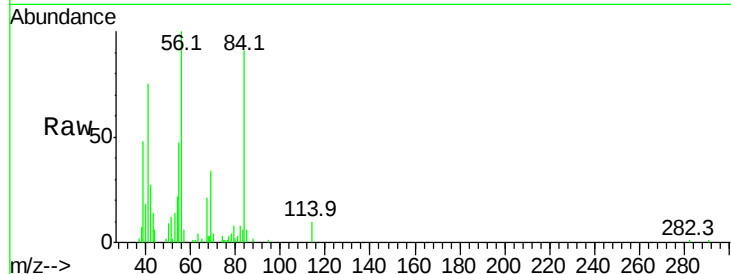


#30
Cvclohexane
Concen: 0.317 ppbv
RT: 7.09
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
84 100
56 129.
41 103.

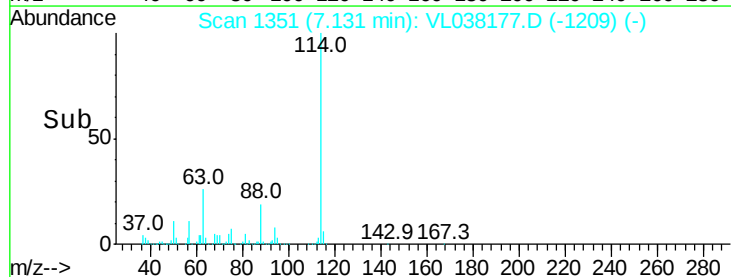
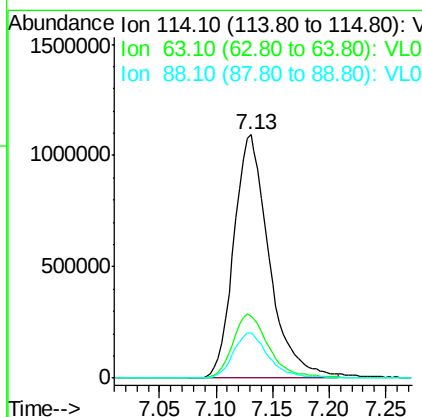
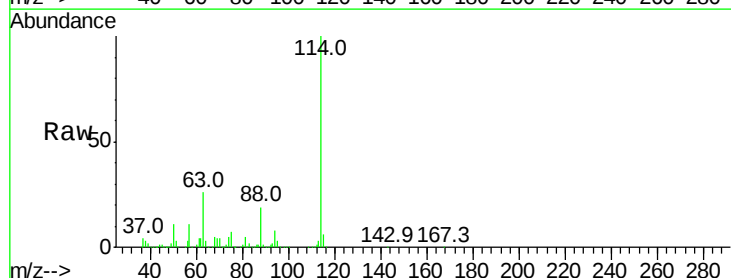
Manual Integrations
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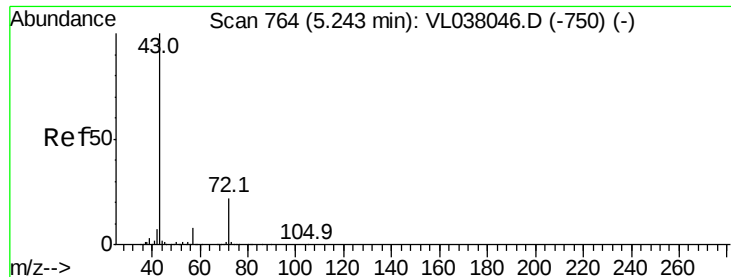
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.04 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion:114 Resp: 2376406
Ion Ratio Lower Upper
114 100
63 27.3 19.7 29.5
88 18.8 14.4 21.6



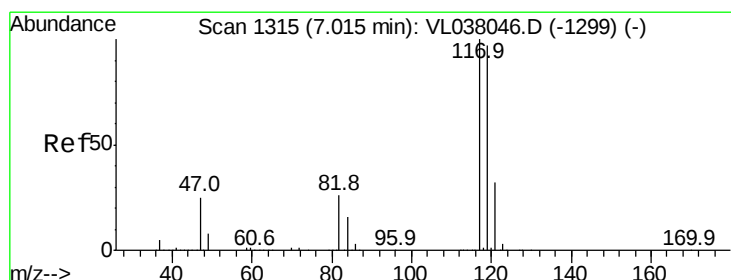
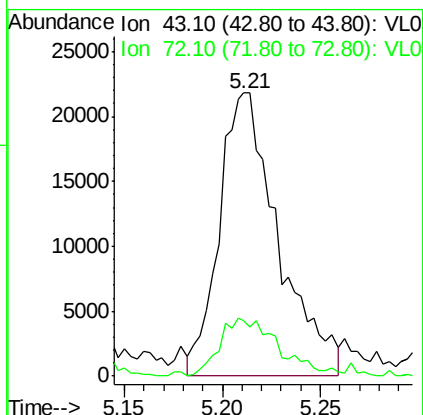
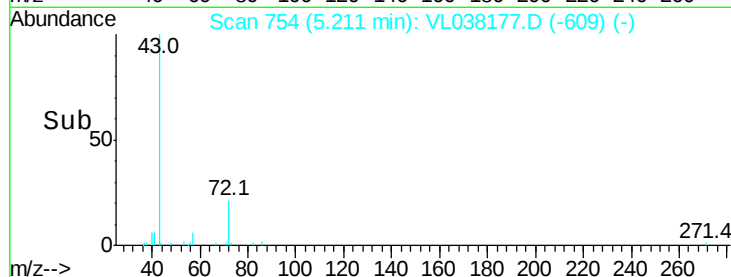
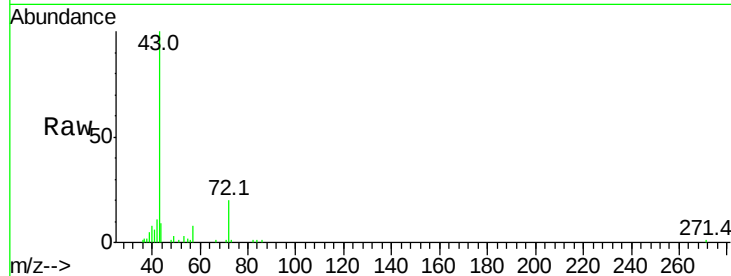


#34
2-Butanone
Concen: 0.480 ppbv m
RT: 5.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
43 100
72 21.

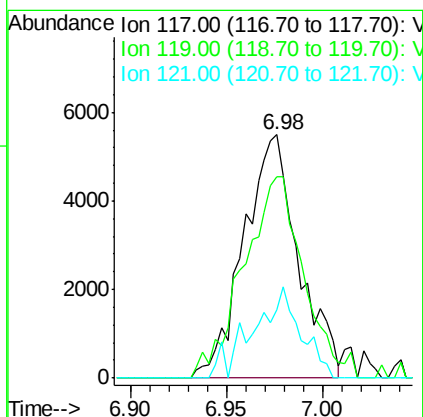
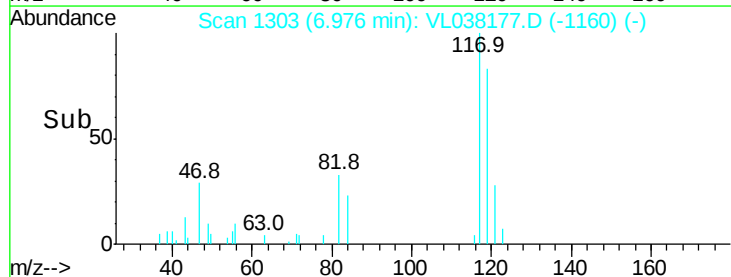
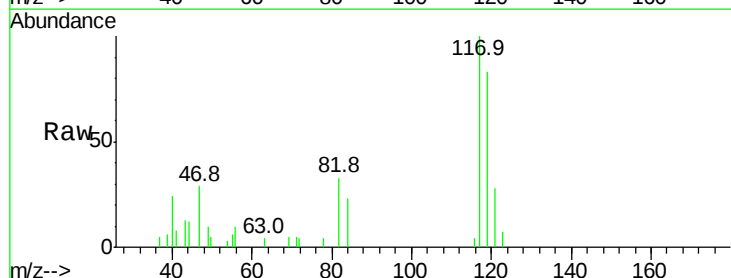
Manual Integrations
APPROVED

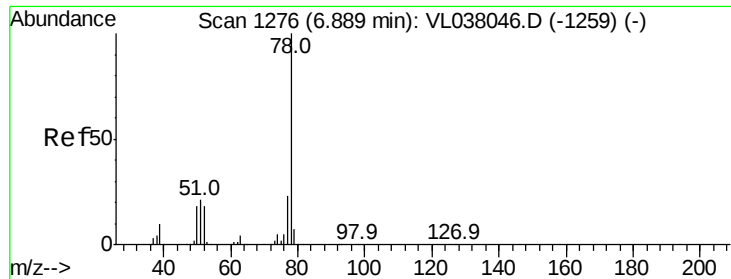
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 6.98 min Scan# 1303
Delta R.T. -0.04 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion:117 Resp: 10870
Ion Ratio Lower Upper
117 100
119 82.8 77.7 116.5
121 27.9 25.6 38.4



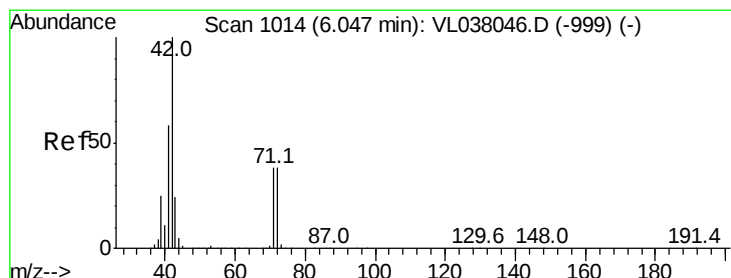
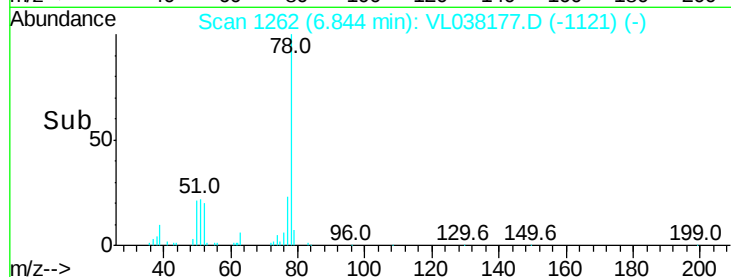
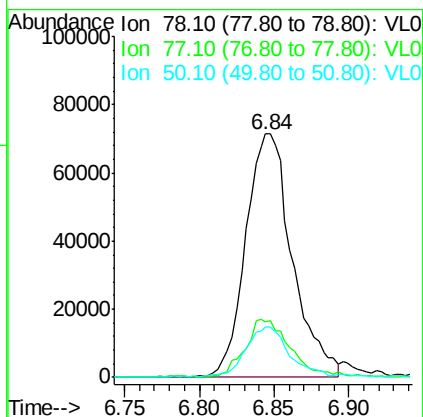
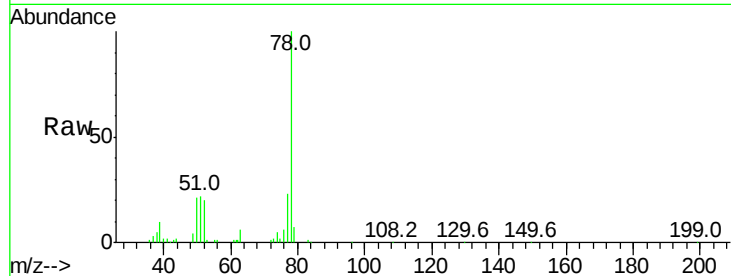


#36
Benzene
Concen: 0.650 ppbv
RT: 6.84
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
78 100
77 22.
50 20.

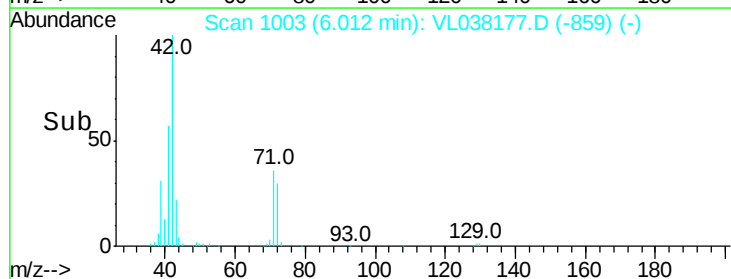
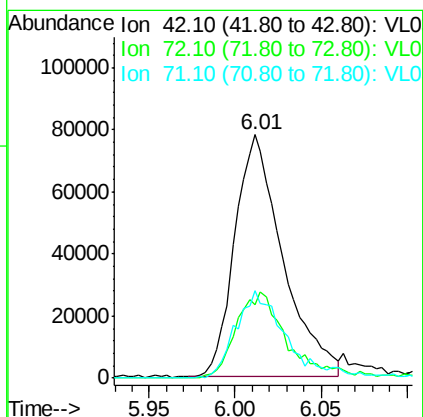
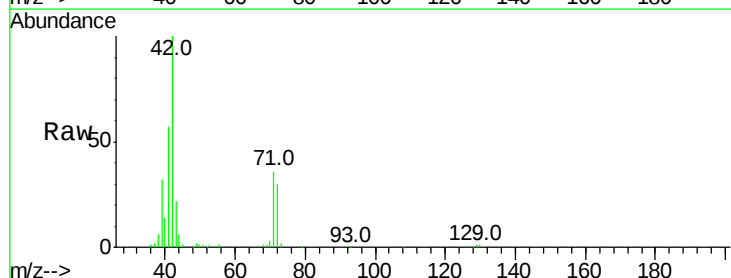
Manual Integrations
APPROVED

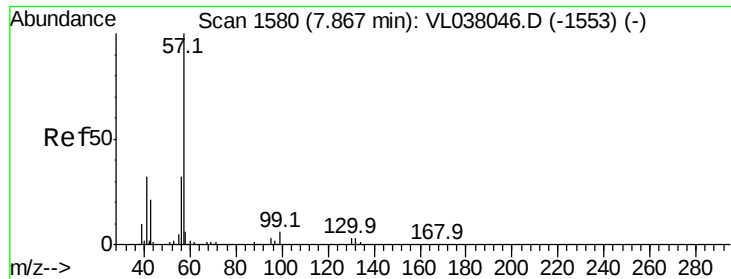
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#41
Tetrahydrofuran
Concen: 2.560 ppbv
RT: 6.01 min Scan# 1003
Delta R.T. -0.04 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 42 Resp: 152295
Ion Ratio Lower Upper
42 100
72 38.5 31.7 47.5
71 38.8 30.6 46.0





#44

2,2,4-Trimethylpentane

Concen: 0.493 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 22:03

Tot Ion:

Ion Ratio

57 100

41 44.

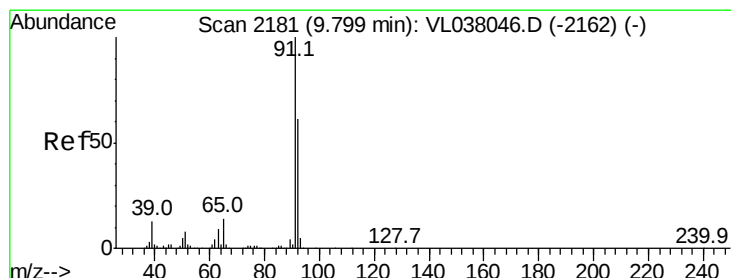
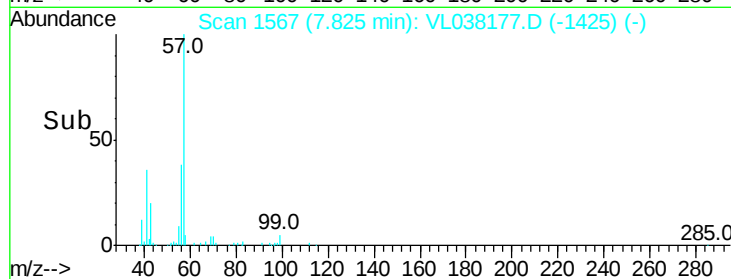
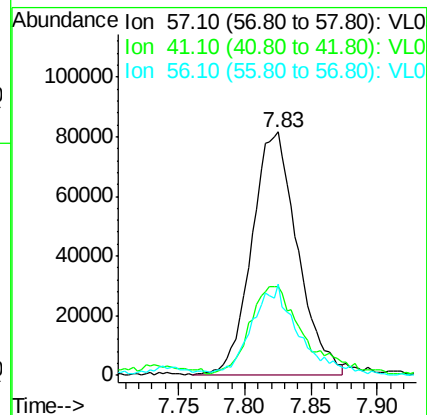
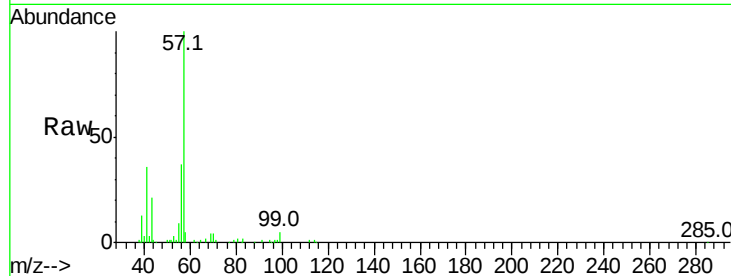
56 38.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#53

Toluene

Concen: 1.287 ppbv m

RT: 9.75 min Scan# 2166

Delta R.T. -0.05 min

Lab File: VL038177.D

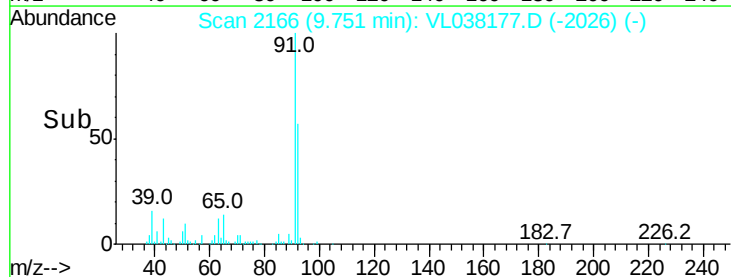
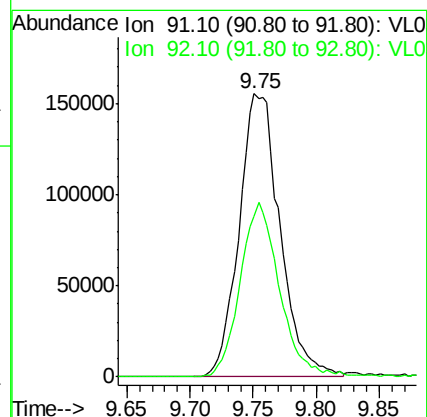
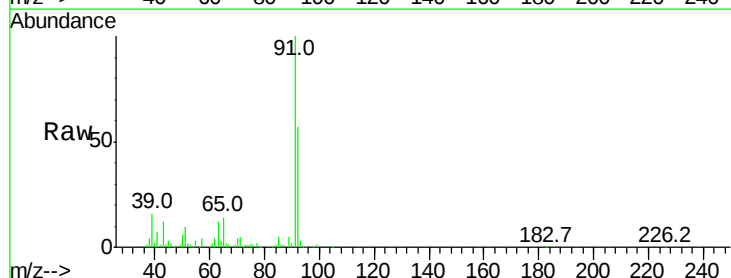
Acq: 14 Dec 2021 22:03

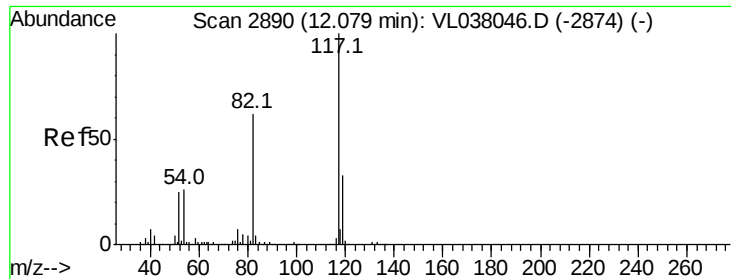
Tgt Ion: 91 Resp: 351078

Ion Ratio Lower Upper

91 100

92 0.0 49.7 74.5#



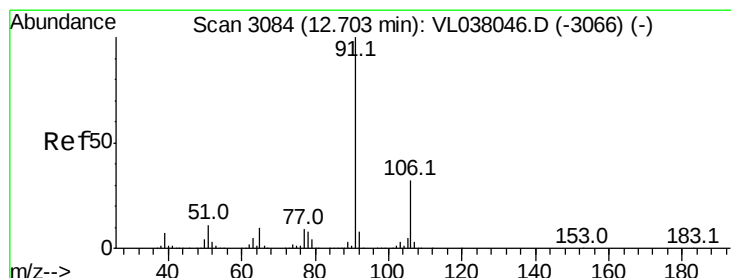
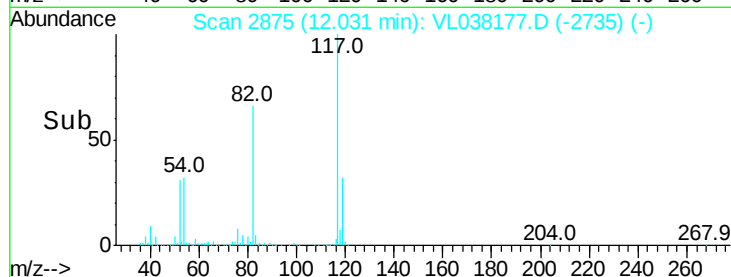
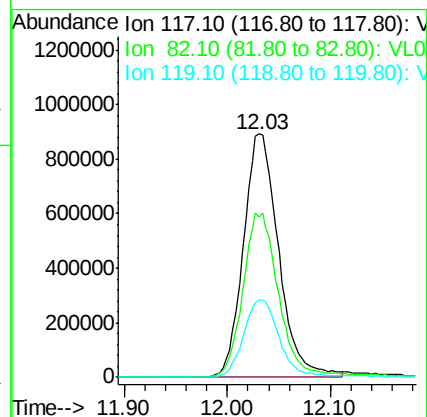
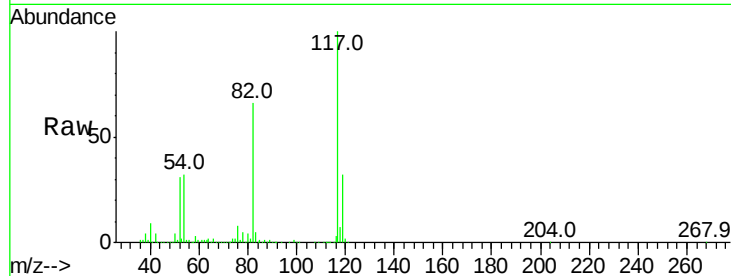


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
AA-DSE
Acq: 14 Dec 2021 22:03

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

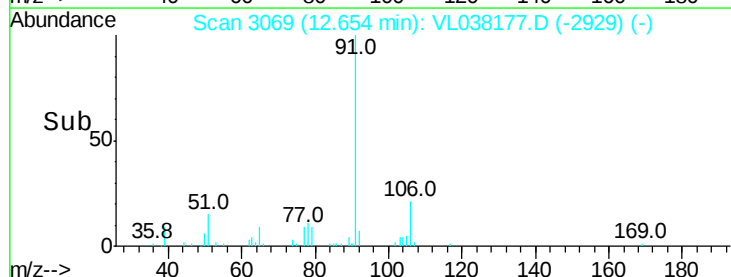
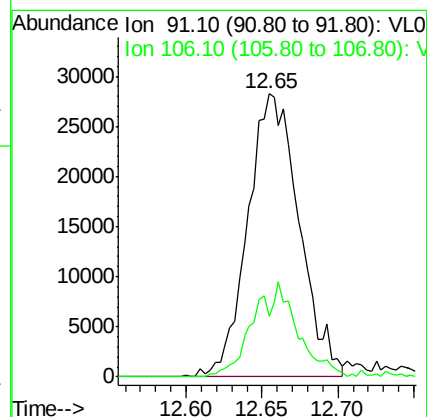
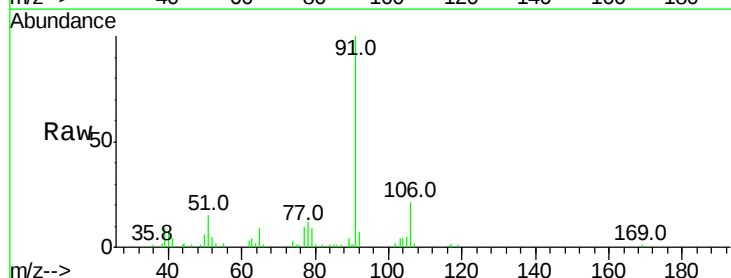
Manual Integrations
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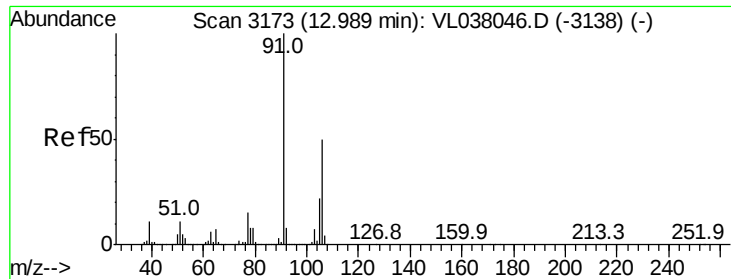
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#58
Ethyl Benzene
Concen: 0.189 ppbv m
RT: 12.65 min Scan# 3069
Delta R.T. -0.05 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 91 Resp: 66420
Ion Ratio Lower Upper
91 100
106 21.3 25.8 38.6#



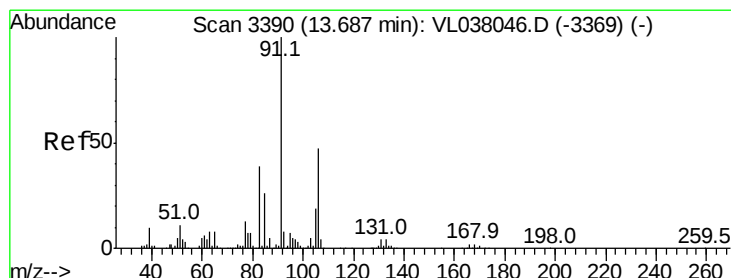
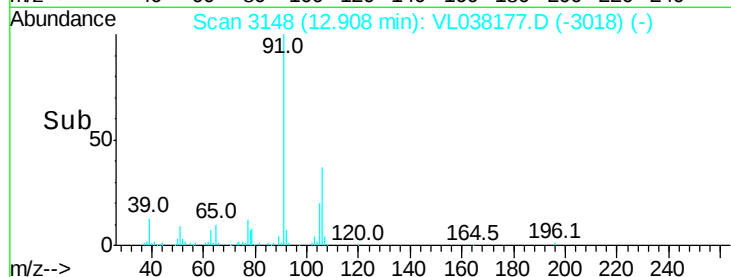
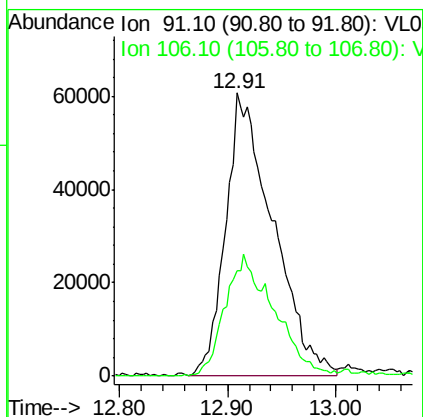
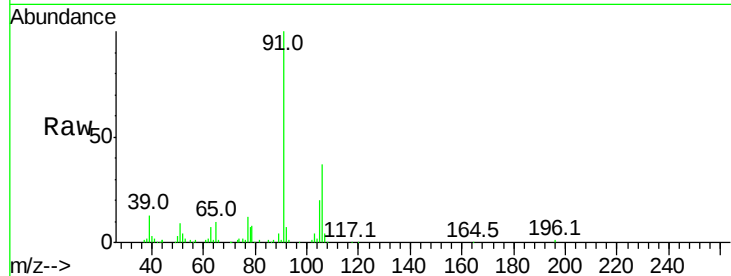


#59
m/p-Xylene
Concen: 0.625 ppbv m
RT: 12.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 22:03

Tot Ion:
Ion Ratio
91 100
106 46.

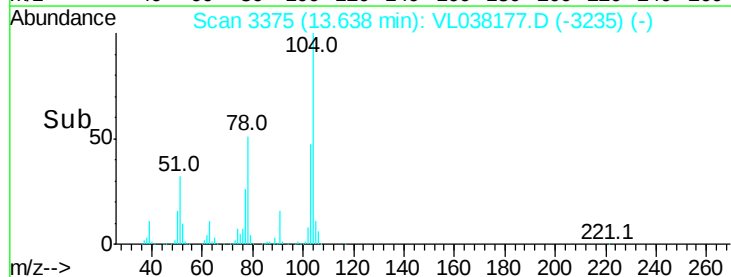
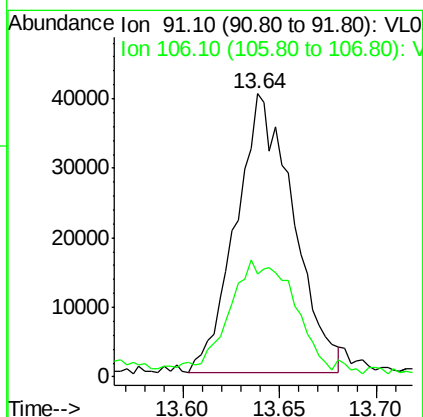
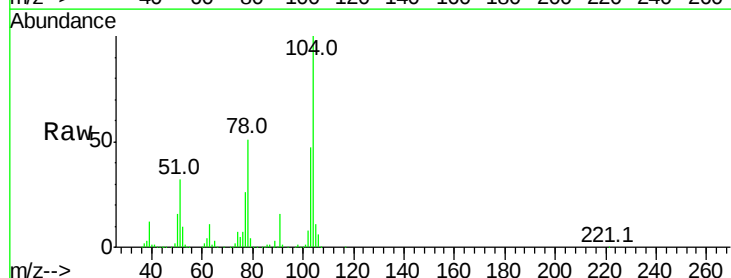
Manual Integrations
APPROVED

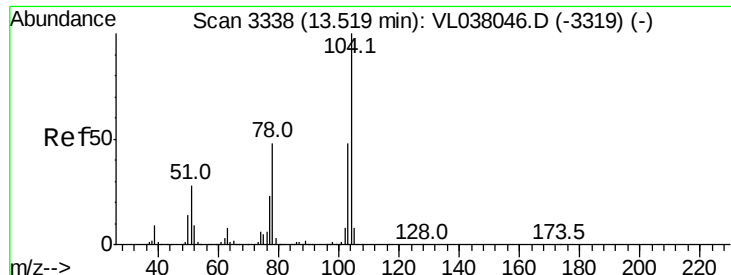
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.64 min Scan# 3375
Delta R.T. -0.05 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 91 Resp: 83101
Ion Ratio Lower Upper
91 100
106 54.8 24.2 72.6



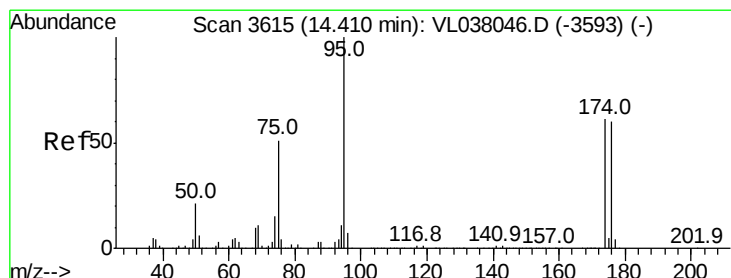
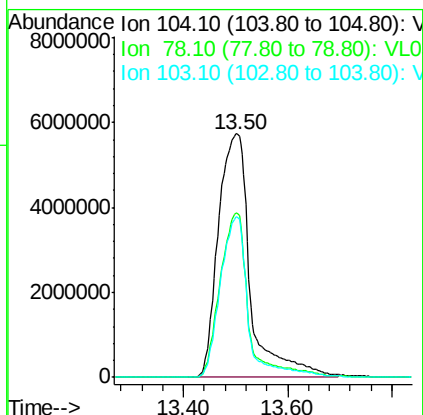
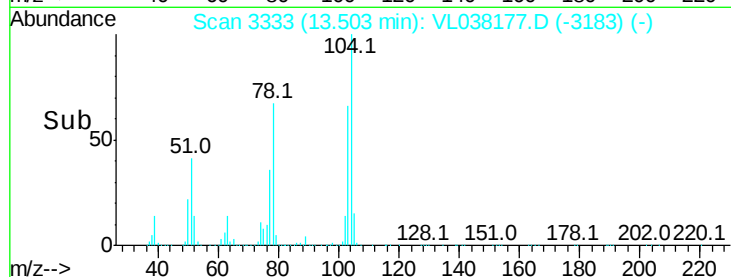
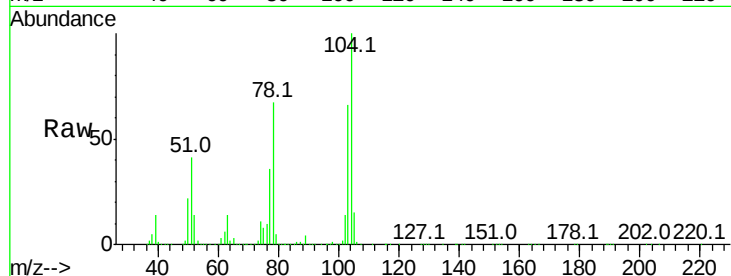


#61
Stvrene
Concen: 168.048 ppbv
RT: 13.50
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 22:03

Tot Ion:1
Ion Rati
104 100
78 60.
103 57.

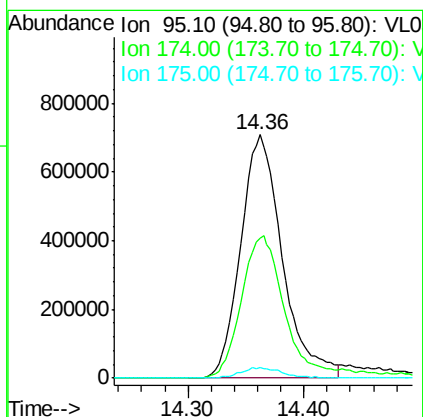
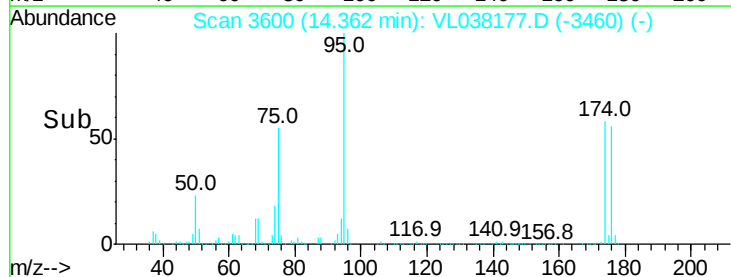
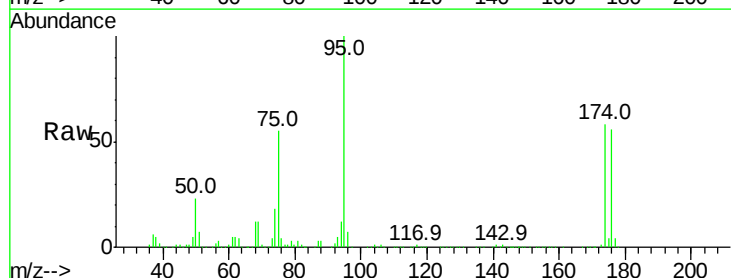
Manual Integrations
APPROVED

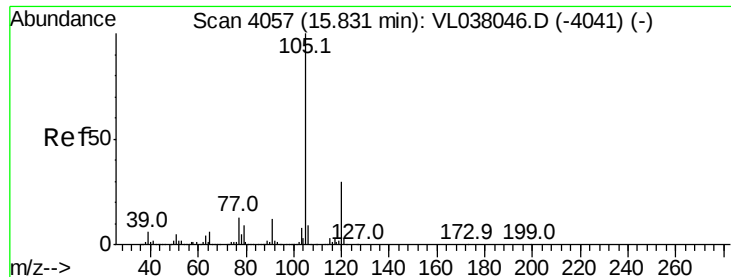
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 11.584 ppbv
RT: 14.36 min Scan# 3600
Delta R.T. -0.05 min
Lab File: VL038177.D
Acq: 14 Dec 2021 22:03

Tgt Ion: 95 Resp: 1773537
Ion Ratio Lower Upper
95 100
174 64.4 53.1 79.7
175 4.6 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.097 ppbv m

RT: 15.79

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

AA-DSE

Acq: 14 Dec 2021 22:03

Tot Ion:1

Ion Ratio

105 100

120 30.

91 16.

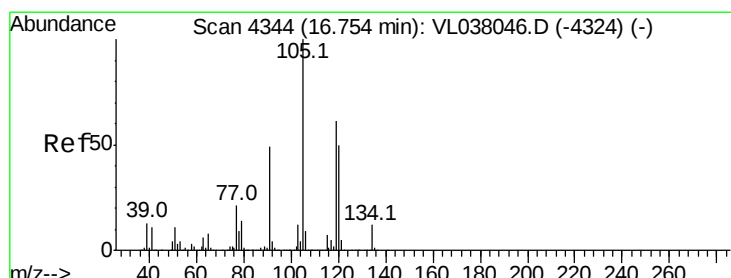
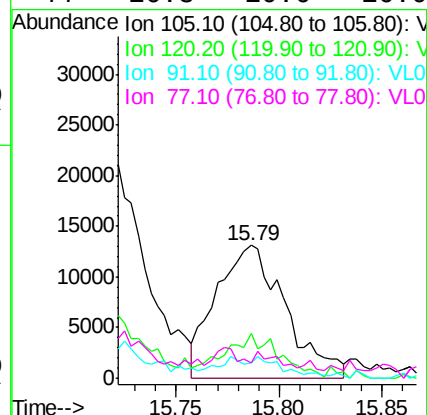
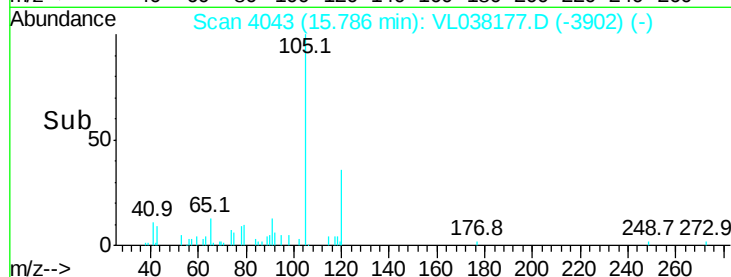
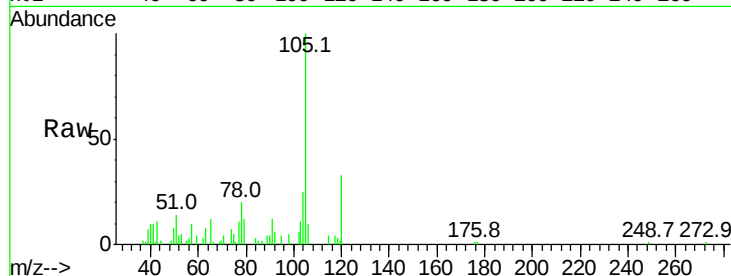
77 16.3 10.6 16.0#

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.259 ppbv m

RT: 16.71 min Scan# 4329

Delta R.T. -0.05 min

Lab File: VL038177.D

Acq: 14 Dec 2021 22:03

Tgt Ion:105 Resp: 77412

Ion Ratio Lower Upper

105 100

120 40.7 40.1 60.1

91 12.8 39.8 59.8#

77 18.5 16.6 25.0

