

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038171.D
 Acq On : 14 Dec 2021 18:07
 Operator : SY/AP
 Sample : M5045-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-18B

Manual Integrations
 APPROVED

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

Quant Time: Dec 15 06:22:22 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	908648	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2341337	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.03	117	2022580	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1611507	11.05	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	36014	0.240	ppbv	98
4) Chloromethane	3.12	50	28694	0.442	ppbv	93
9) Propene	3.00	41	48262m	0.687	ppbv	
10) Heptane	8.08	43	33037	0.190	ppbv	91
11) Trichlorofluoromethane	3.93	101	28506	0.200	ppbv	98
13) Ethanol	3.58	45	4003936	589.569	ppbv	90
15) Acetone	3.82	43	521358	6.618	ppbv	92
19) Isopropyl Alcohol	3.94	45	1505350	26.446	ppbv #	99
20) Methylene Chloride	4.32	84	324515	7.354	ppbv	98
25) Ethyl Acetate	5.64	43	1001369	3.824	ppbv	97
26) Hexane	5.65	57	536739	4.253	ppbv	89
29) Chloroform	5.72	83	107619	0.579	ppbv	88
30) Cyclohexane	7.09	84	13205m	0.115	ppbv	
34) 2-Butanone	5.21	43	29024	0.307	ppbv	93
35) Carbon Tetrachloride	6.98	117	13931m	0.085	ppbv	
36) Benzene	6.85	78	61589	0.264	ppbv #	92
38) Trichloroethene	7.79	130	52148m	0.592	ppbv	
44) 2,2,4-Trimethylpentane	7.82	57	87184	0.223	ppbv #	74
53) Toluene	9.76	91	179080	0.666	ppbv	98
58) Ethyl Benzene	12.66	91	91142m	0.273	ppbv	
59) m/p-Xylene	12.92	91	261343m	0.929	ppbv	
60) o-Xylene	13.64	91	84677m	0.324	ppbv	
74) 1,2,4-Trimethylbenzene	16.71	105	51801m	0.182	ppbv	

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121421\
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Misc : 400mL/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
IA-18B

Manual Integrations
APPROVED

Quant Time: Dec 15 06:22:22 2021

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821

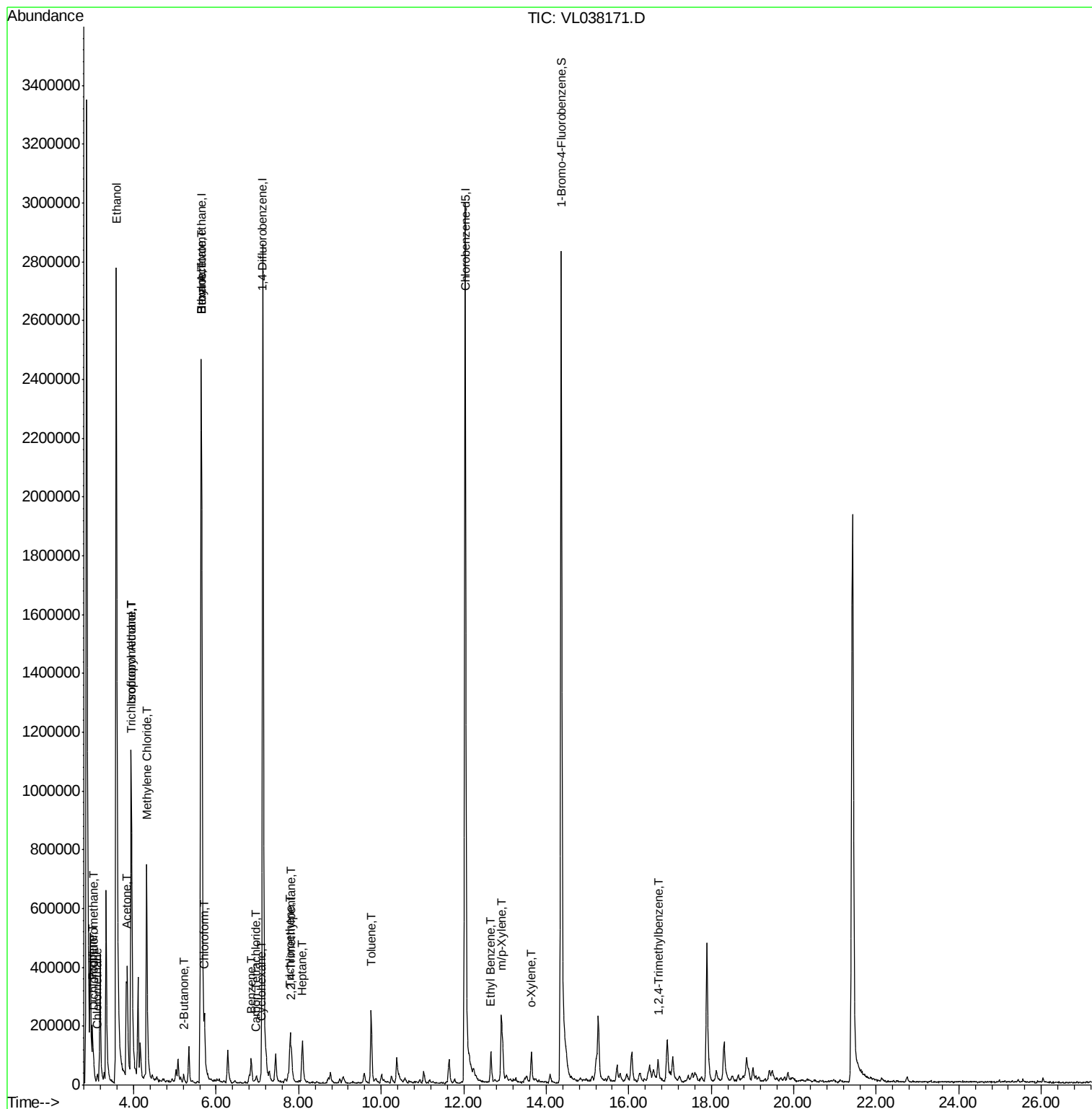
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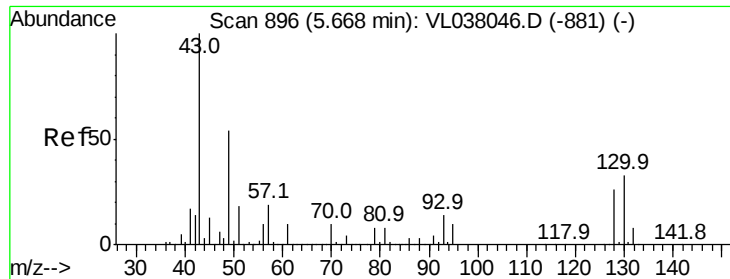
QLast Update : Thu Nov 18 13:16:09 2021

Response via : Initial Calibration

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. ClientSampleId:

Lab File: IA-18B

Acq: 14 Dec 2021 18:07

Tot Ion:

Ion Ratio

49 100

128 47.

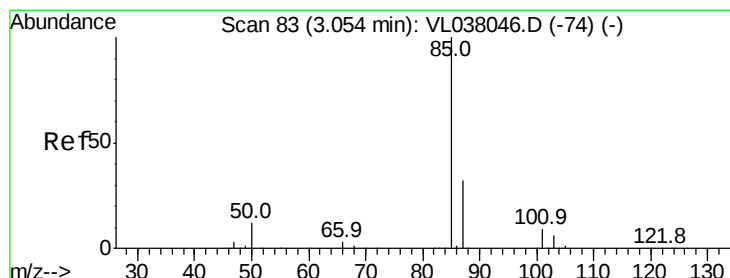
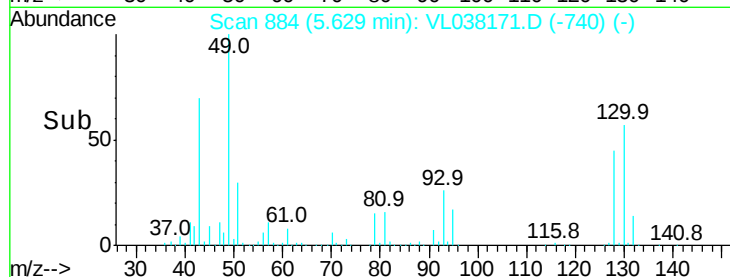
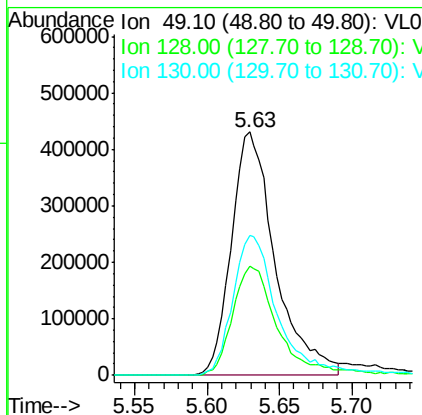
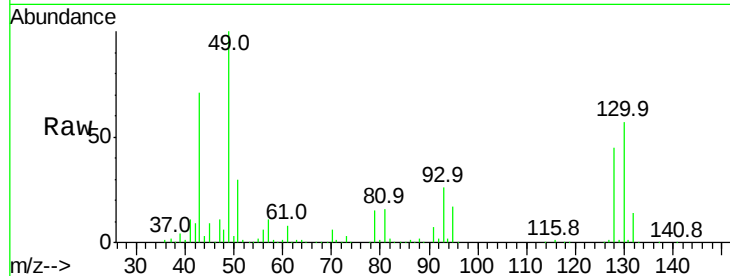
130 59.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.240 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL038171.D

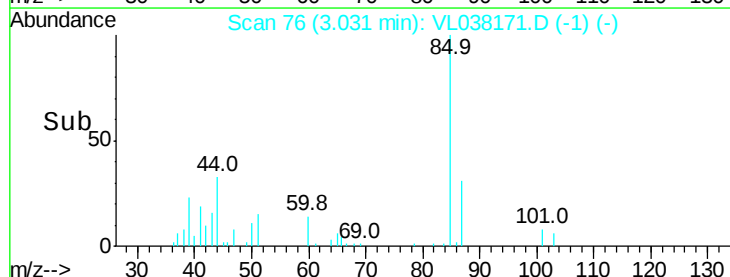
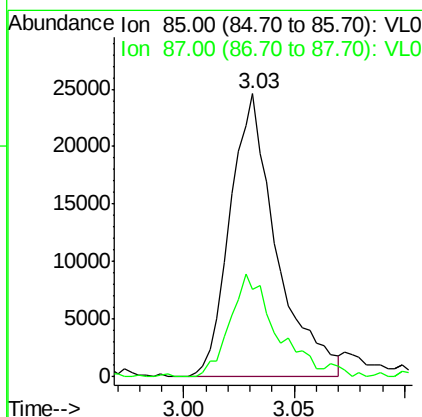
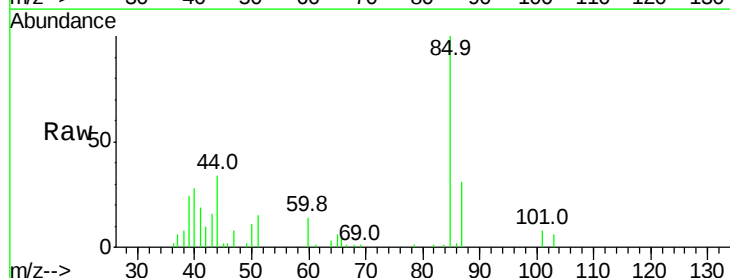
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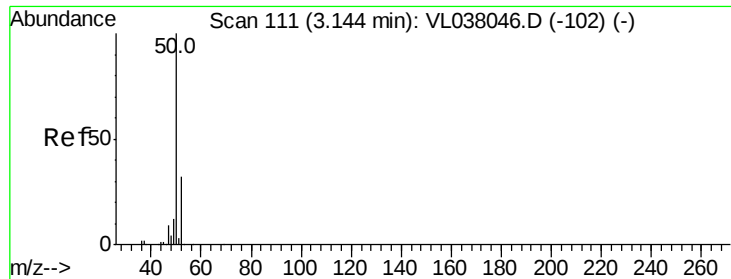
Tgt Ion: 85 Resp: 36014

Ion Ratio Lower Upper

85 100

87 30.9 25.8 38.6



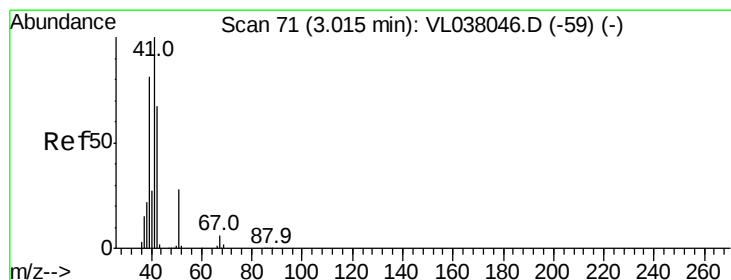
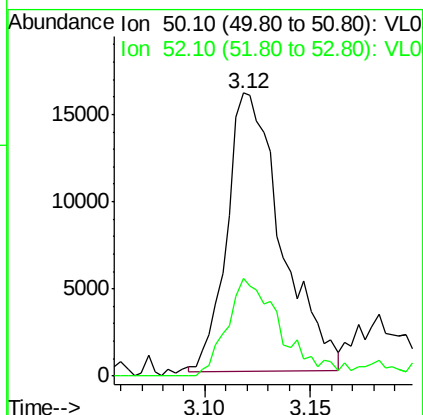
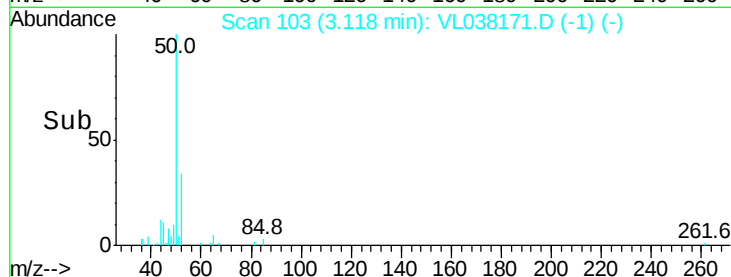
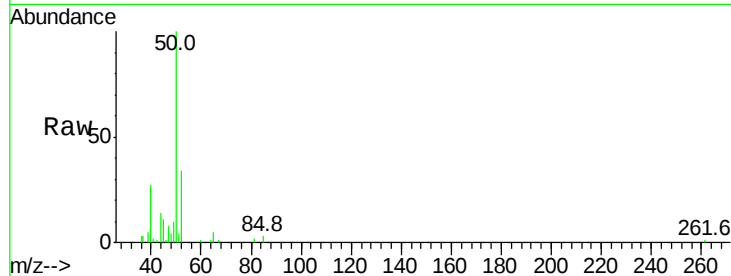


#4
Chloromethane
Concen: 0.442 ppbv
RT: 3.12
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
50 100
52 35.

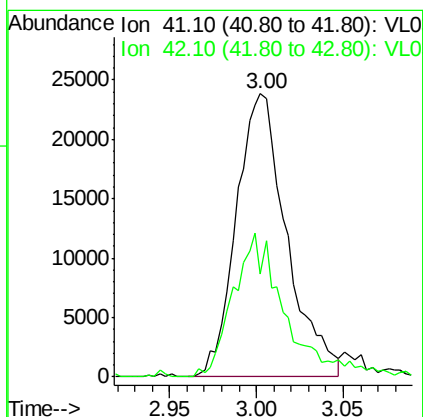
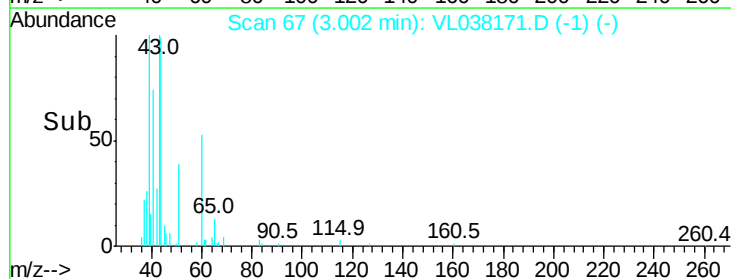
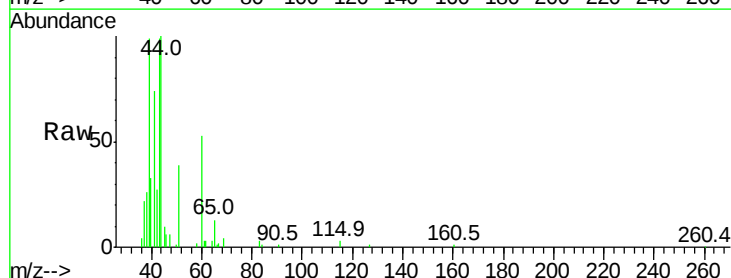
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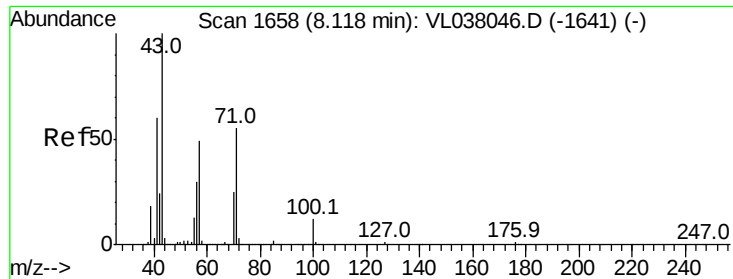
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#9
Propene
Concen: 0.687 ppbv m
RT: 3.00 min Scan# 67
Delta R.T. -0.01 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 41 Resp: 48262
Ion Ratio Lower Upper
41 100
42 210.6 53.8 80.8#



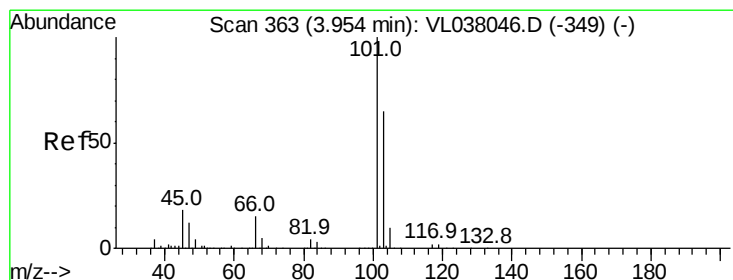
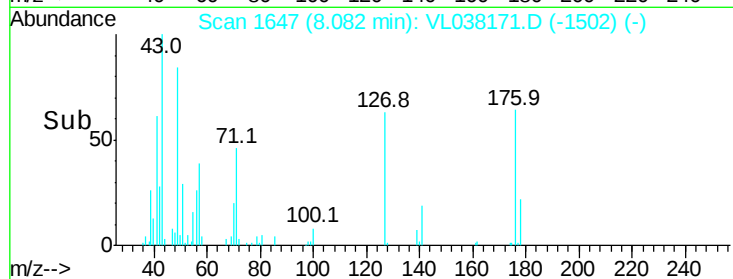
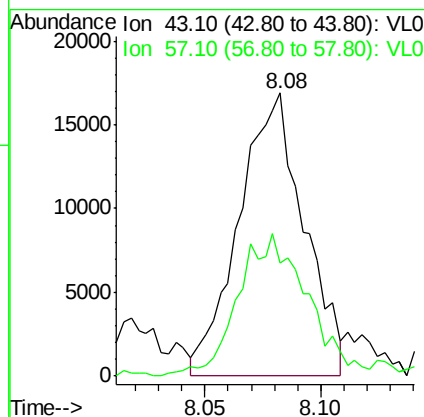
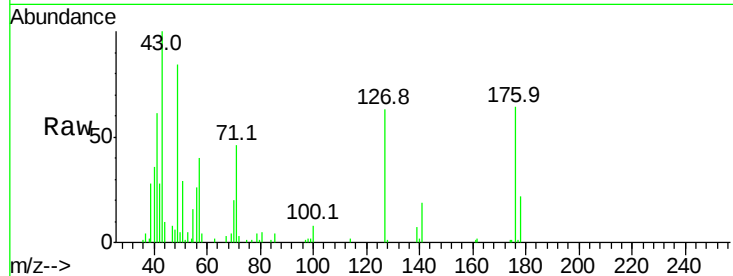


#10
 Heptane
 Concen: 0.190 ppbv
 RT: 8.08
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 18:07

Tot Ion:
 Ion Ratio
 43 100
 57 56.

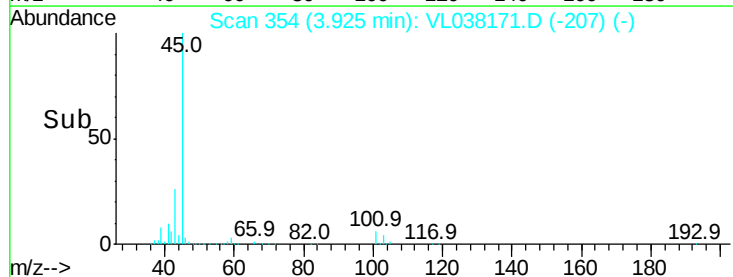
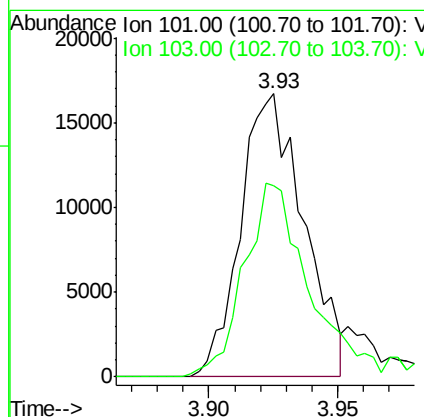
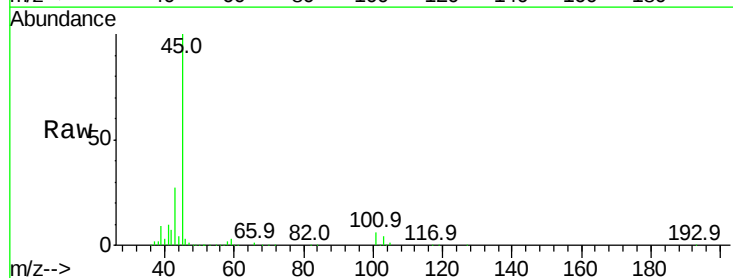
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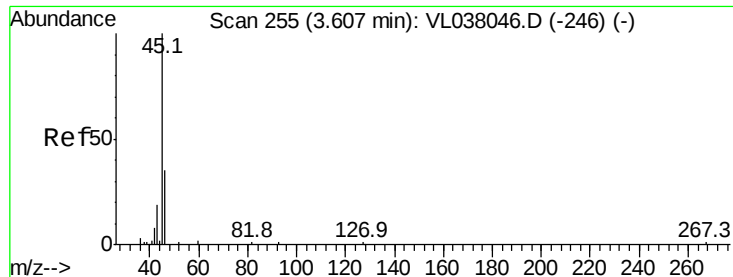
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 Supervised By :Semsettin Yesilyurt 12/16/2021



#11
 Trichlorofluoromethane
 Concen: 0.200 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VL038171.D
 Acq: 14 Dec 2021 18:07

Tgt Ion:101 Resp: 28506
 Ion Ratio Lower Upper
 101 100
 103 66.5 51.8 77.6



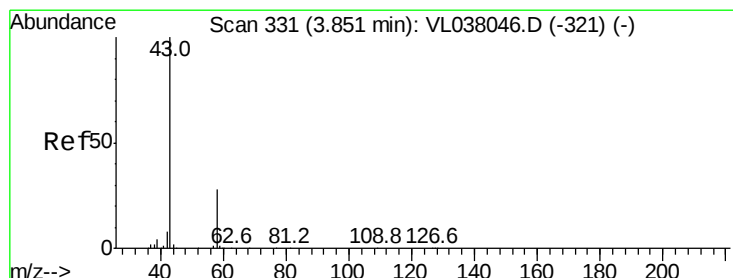
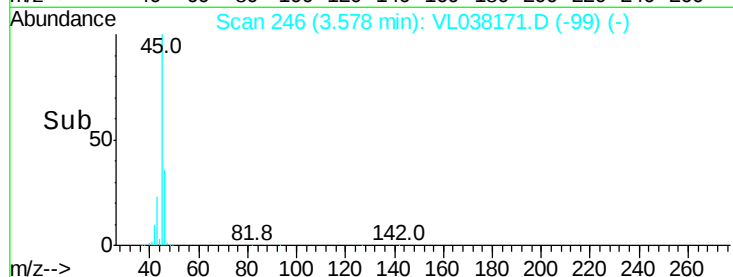
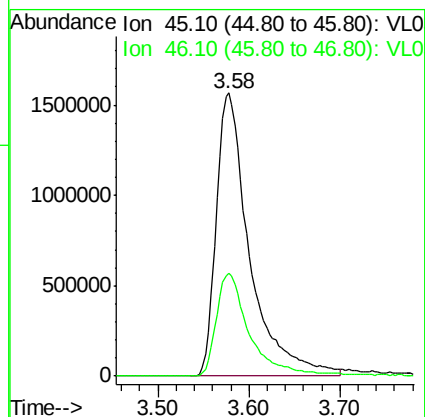
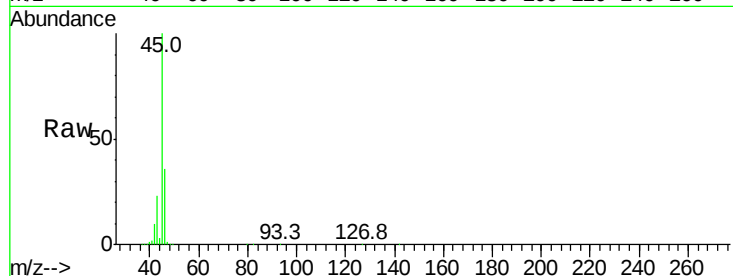


#13
Ethanol
Concen: 589.569 ppbv
RT: 3.58
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
45 100
46 37.

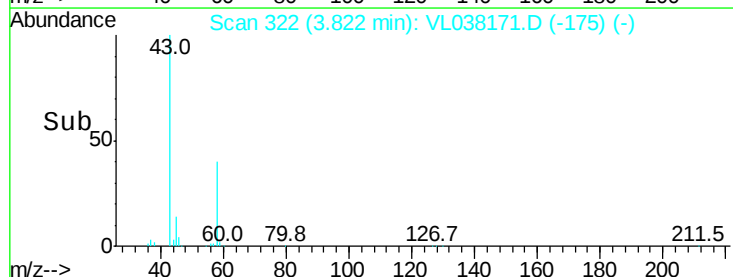
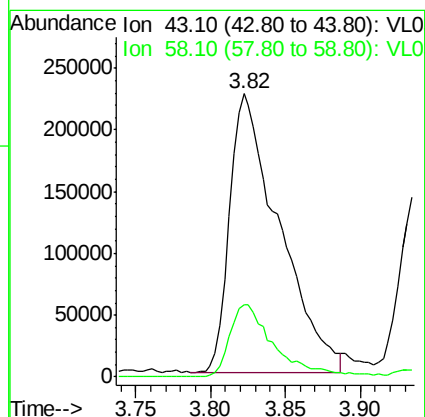
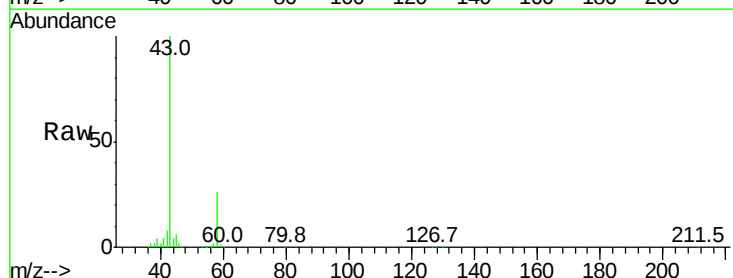
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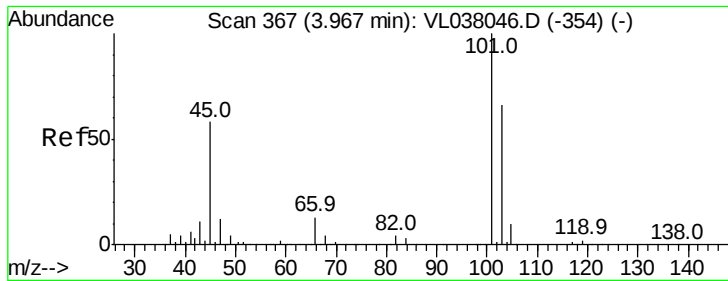
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#15
Acetone
Concen: 6.618 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.03 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 43 Resp: 521358
Ion Ratio Lower Upper
43 100
58 23.7 22.4 33.6



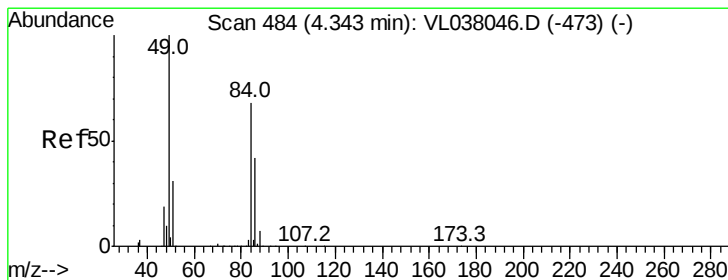
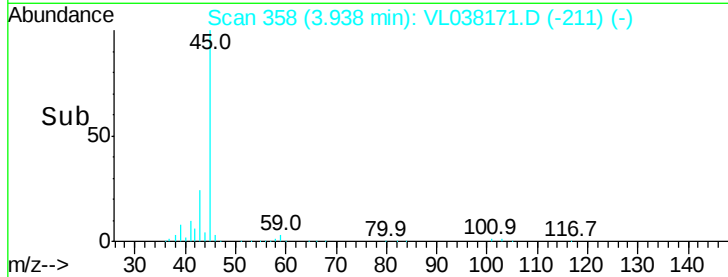
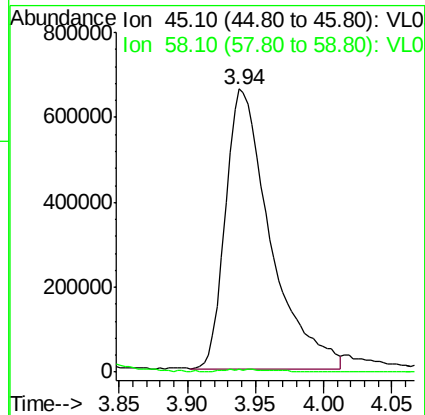
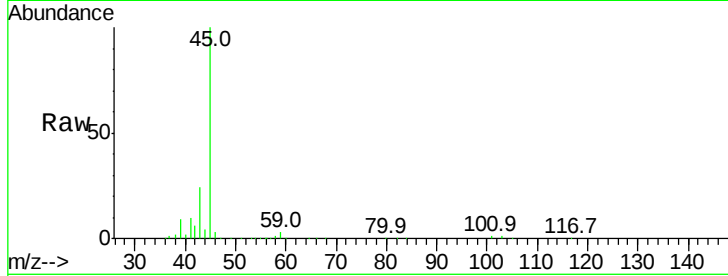


#19
Isopropyl Alcohol
Concen: 26.446 ppbv
RT: 3.94
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
45 100
58 1.

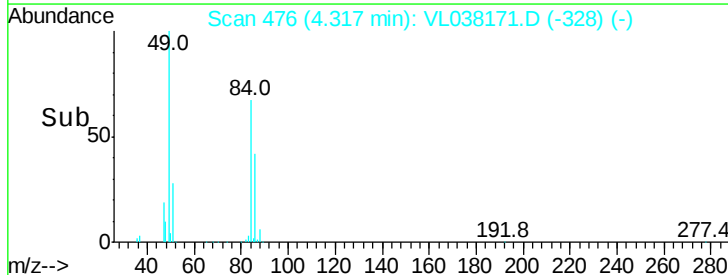
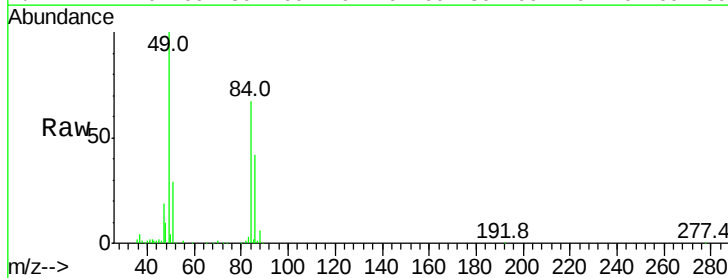
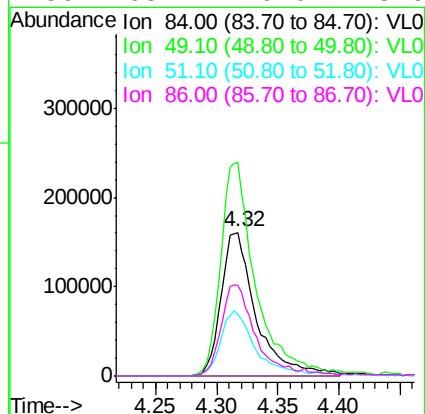
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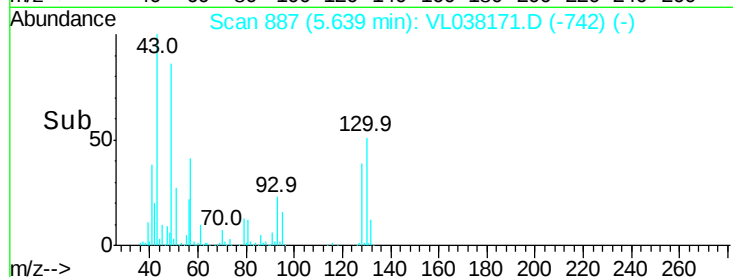
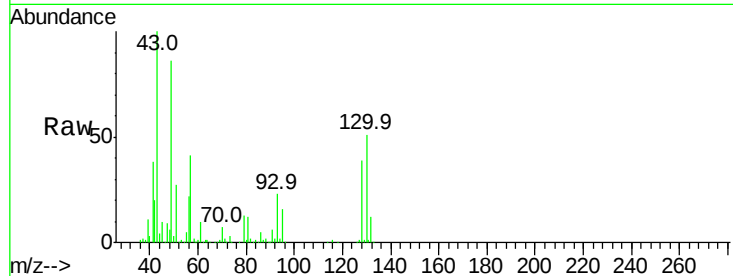
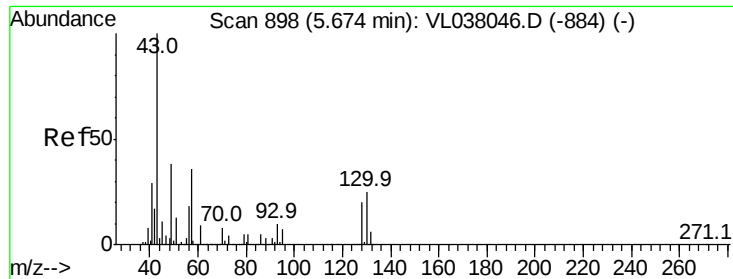
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#20
Methylene Chloride
Concen: 7.354 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.03 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 84 Resp: 324515
Ion Ratio Lower Upper
84 100
49 148.9 118.2 177.2
51 42.9 36.8 55.2
86 63.1 49.0 73.6



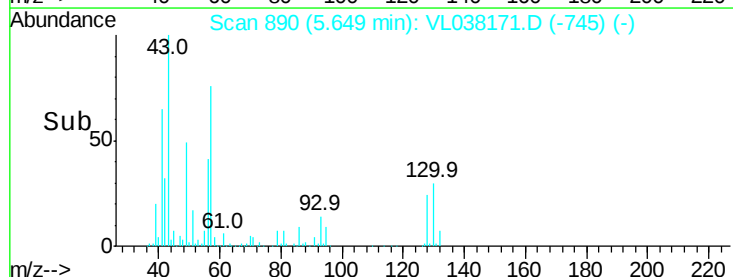
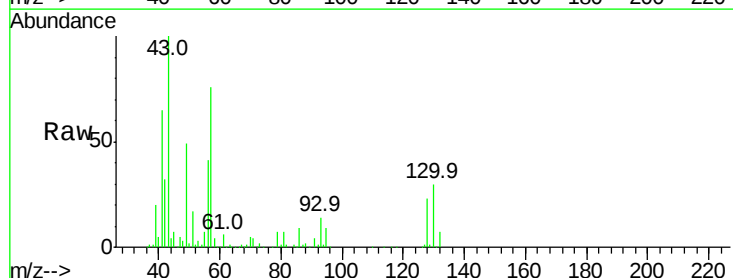
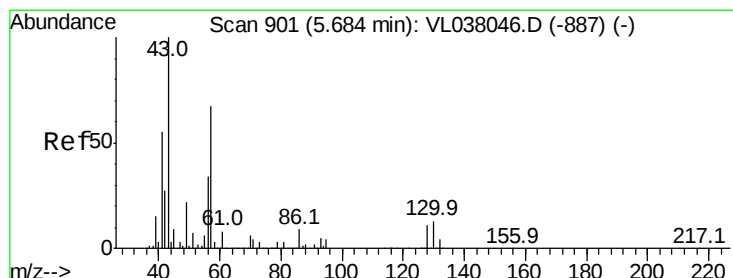
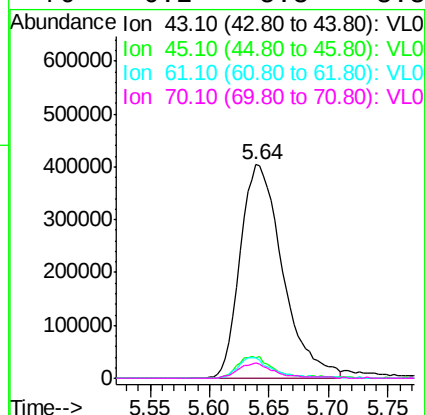


#25
Ethyl Acetate
Concen: 3.824 ppbv
RT: 5.64
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
43 100
45 9.
61 8.
70 6.2 5.8 8.8

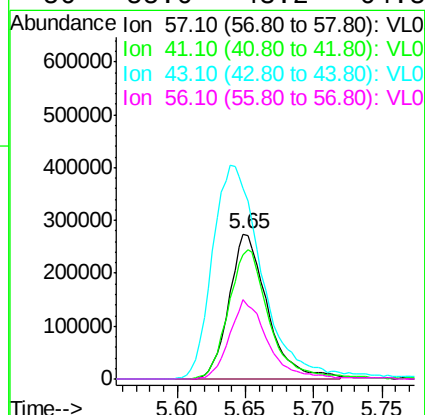
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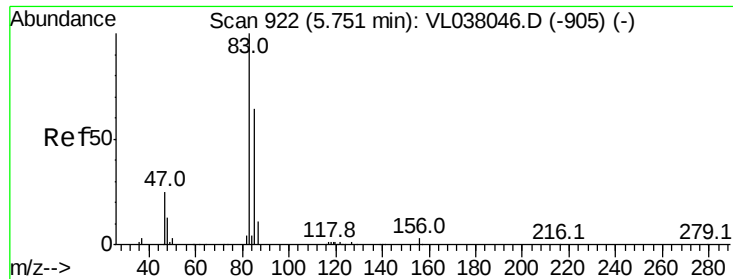
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#26
Hexane
Concen: 4.253 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 57 Resp: 536739
Ion Ratio Lower Upper
57 100
41 94.5 71.4 107.2
43 193.5 174.6 261.8
56 55.6 43.2 64.8



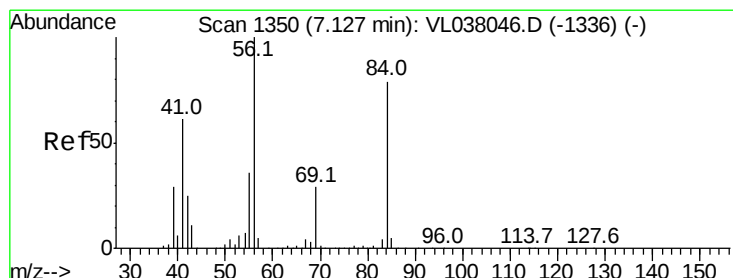
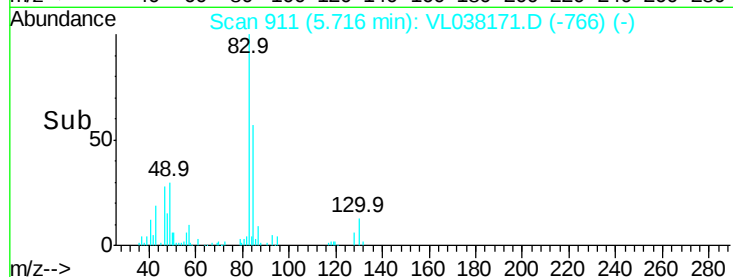
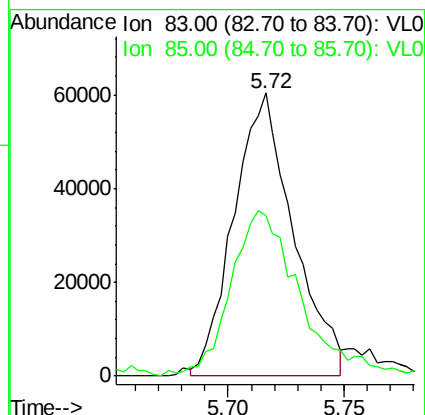
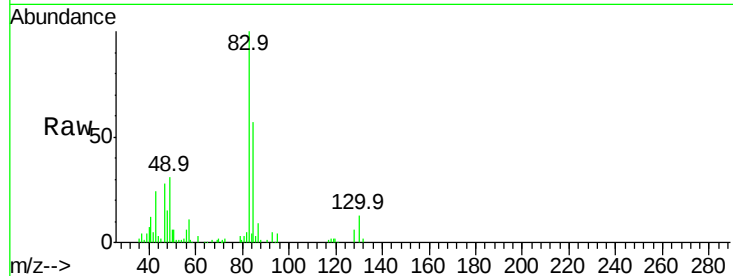


#29
Chloroform
Concen: 0.579 ppbv
RT: 5.72
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
83 100
85 54.

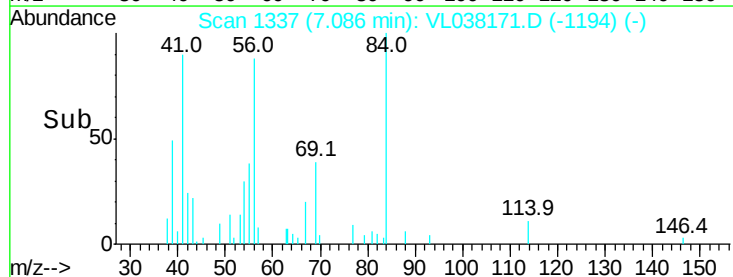
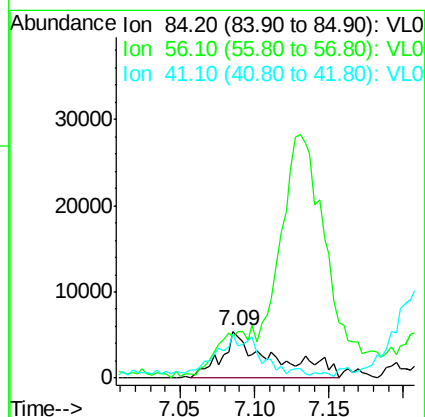
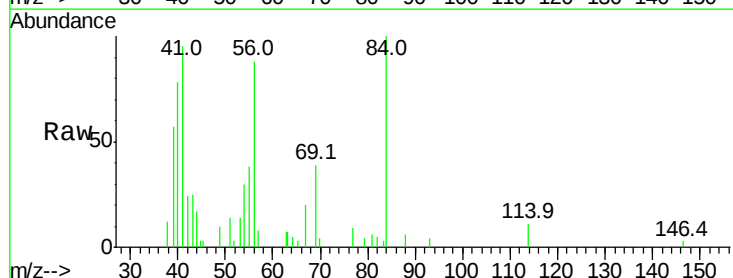
Manual Integrations
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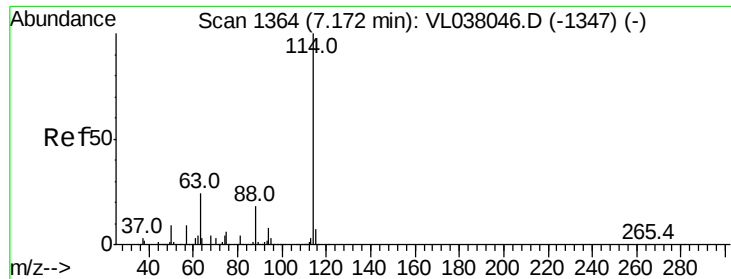
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#30
Cyclohexane
Concen: 0.115 ppbv m
RT: 7.09 min Scan# 1337
Delta R.T. -0.04 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 84 Resp: 13205
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 0.0 64.4 96.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 18:07

Tot Ion:1

Ion Rati

114 100

63 27.

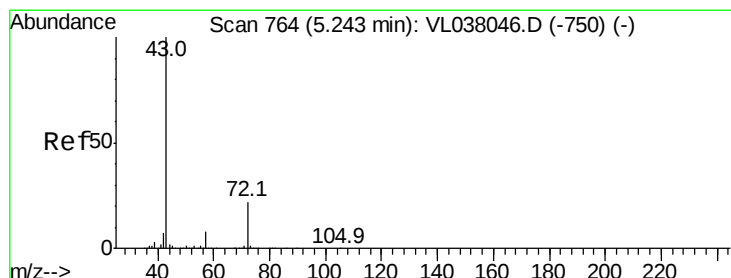
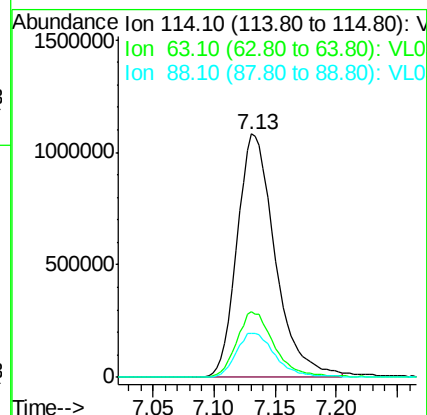
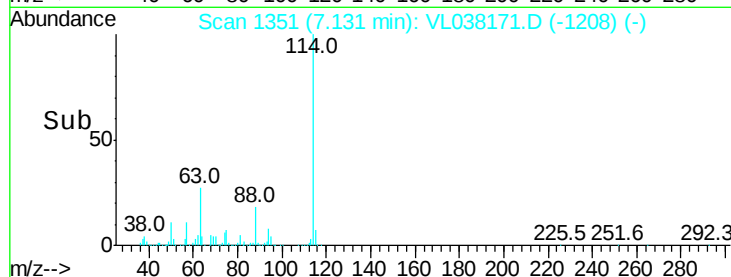
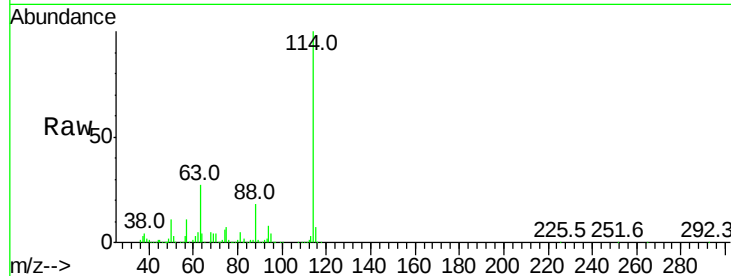
88 18.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#34

2-Butanone

Concen: 0.307 ppbv

RT: 5.21 min Scan# 754

Delta R.T. -0.03 min

Lab File: VL038171.D

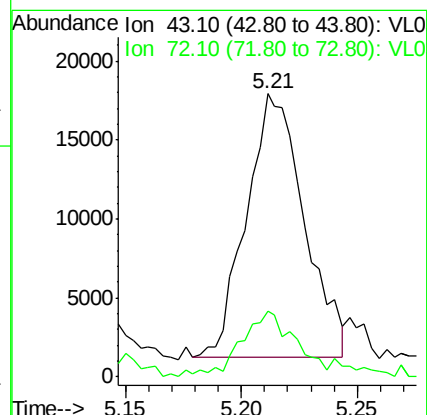
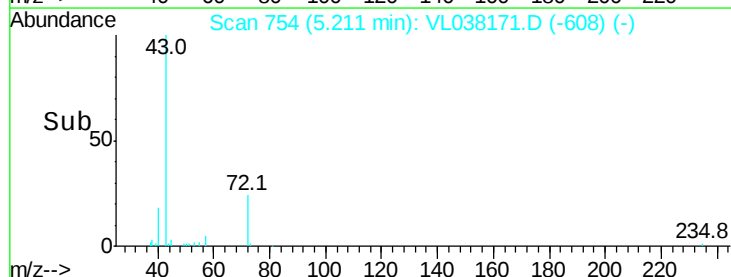
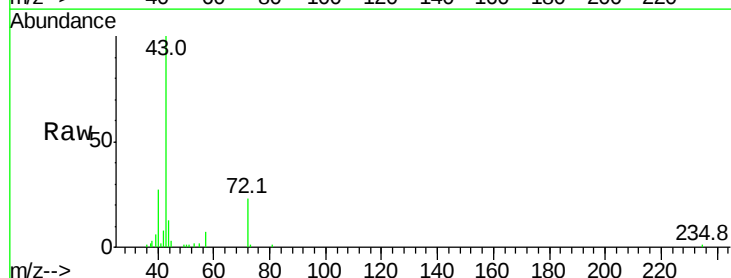
Acq: 14 Dec 2021 18:07

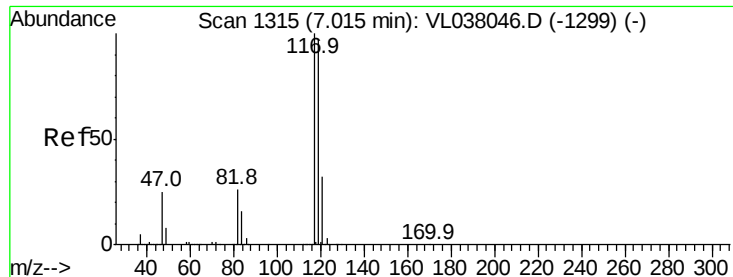
Tgt Ion: 43 Resp: 29024

Ion Ratio Lower Upper

43 100

72 26.9 18.8 28.2





#35

Carbon Tetrachloride

Concen: 0.085 ppbv m

RT: 6.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 18:07

Tot Ion:1

Ion Ratio

117 100

119 90.

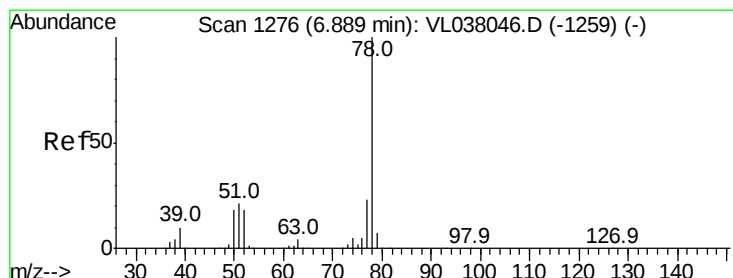
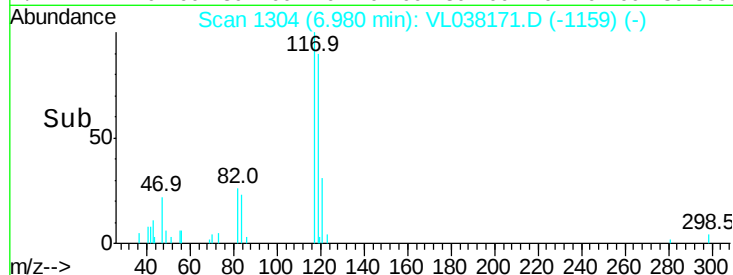
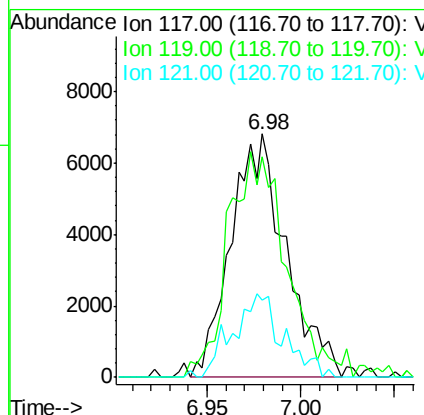
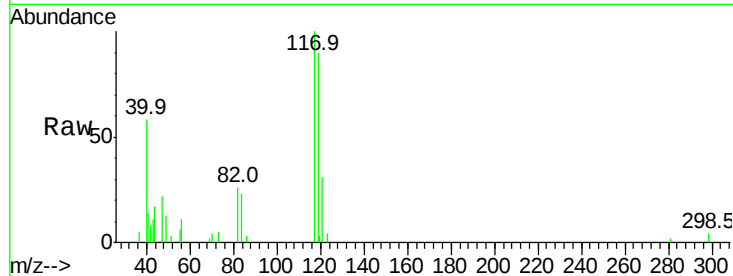
121 31.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#36

Benzene

Concen: 0.264 ppbv

RT: 6.85 min Scan# 1264

Delta R.T. -0.04 min

Lab File: VL038171.D

Acq: 14 Dec 2021 18:07

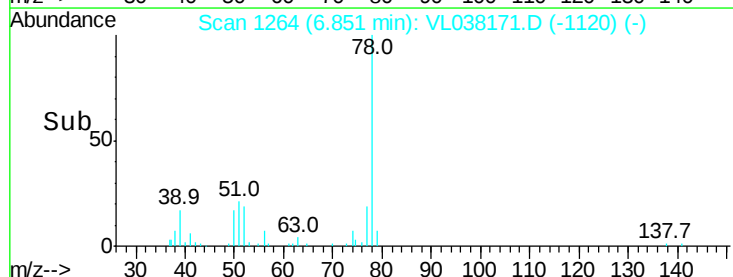
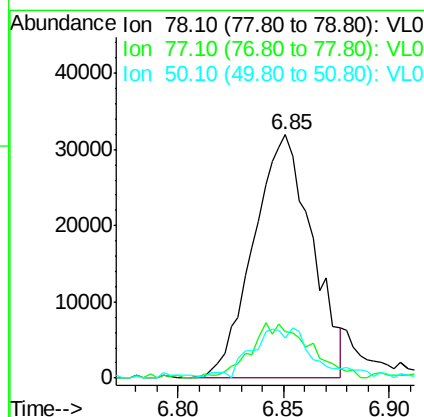
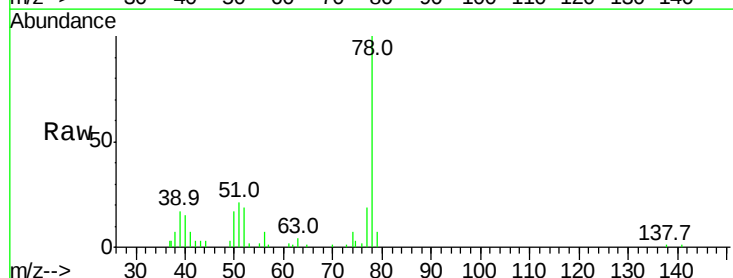
Tgt Ion: 78 Resp: 61589

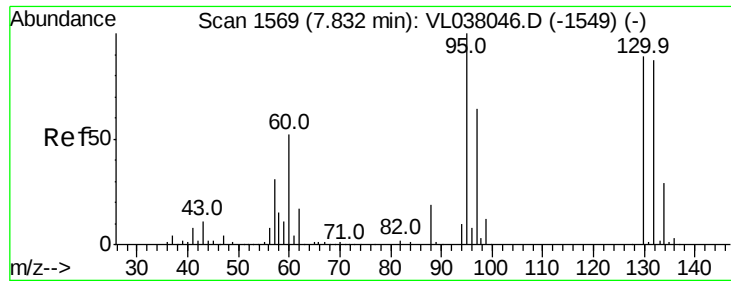
Ion Ratio Lower Upper

78 100

77 19.3 18.2 27.4

50 14.6 14.7 22.1#





#38

Trichloroethene

Concen: 0.592 ppbv m

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 18:07

Tot Ion:1

Ion Rati

130 100

95 104.

132 86.

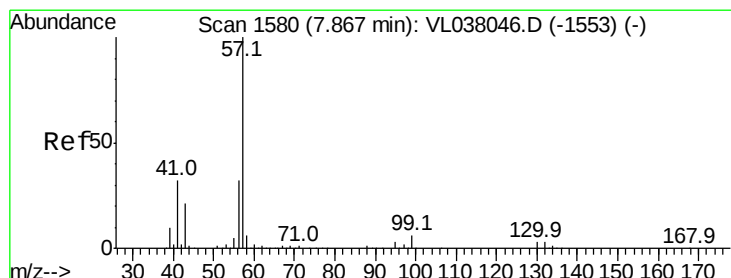
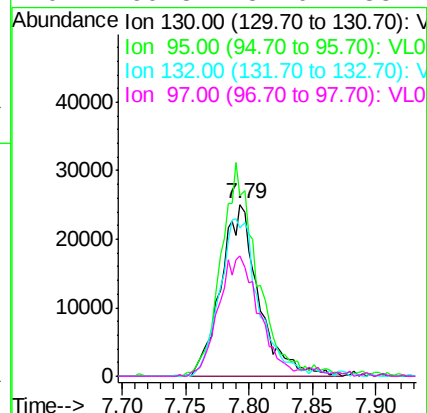
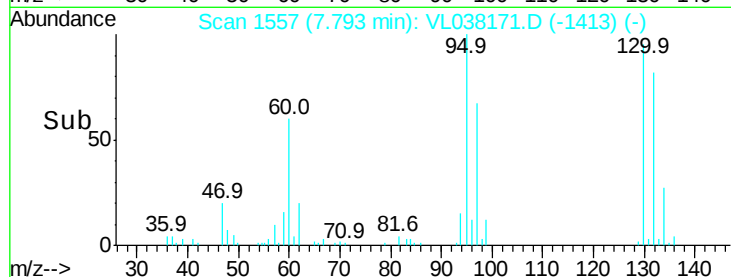
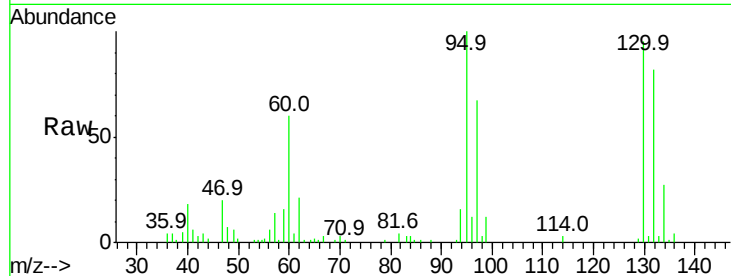
97 69.8 57.0 85.4

Manual Integrations

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#44

2,2,4-Trimethylpentane

Concen: 0.223 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.04 min

Lab File: VL038171.D

Acq: 14 Dec 2021 18:07

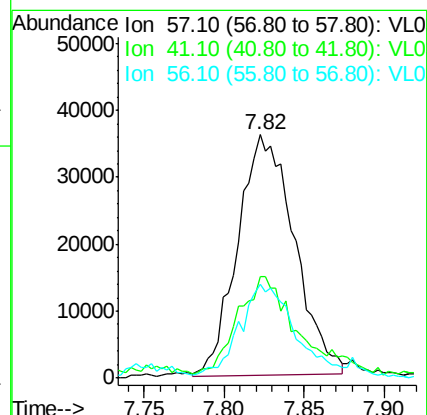
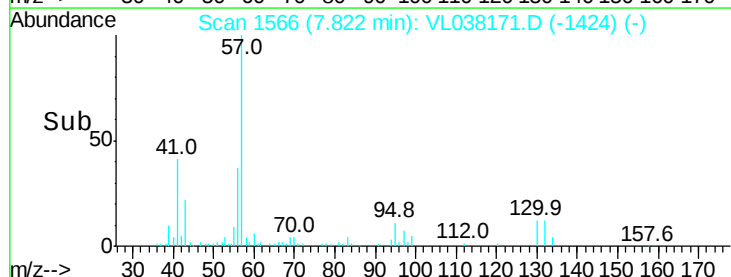
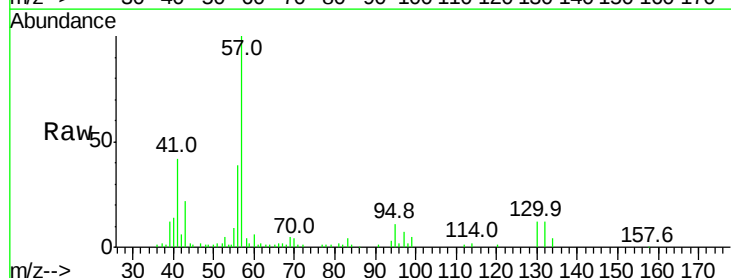
Tgt Ion: 57 Resp: 87184

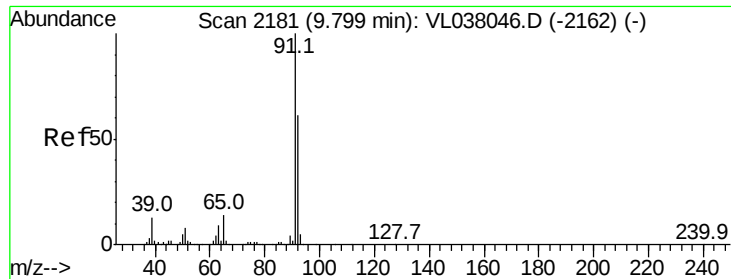
Ion Ratio Lower Upper

57 100

41 51.3 25.8 38.6#

56 41.6 25.6 38.4#





#53

Toluene

Concen: 0.666 ppbv

RT: 9.76 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 18:07

Tot Ion:

Ion Ratio

91 100

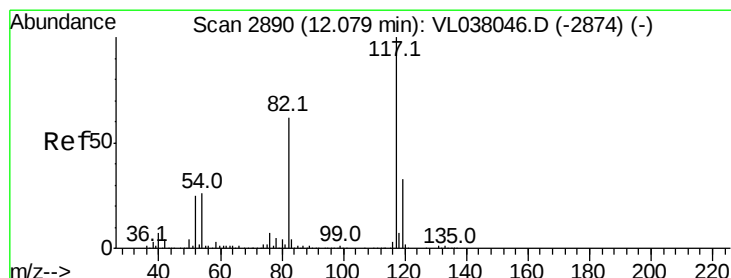
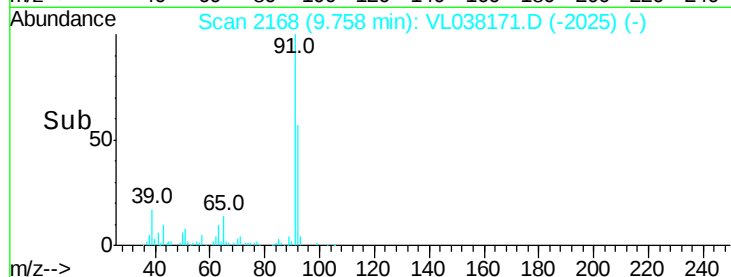
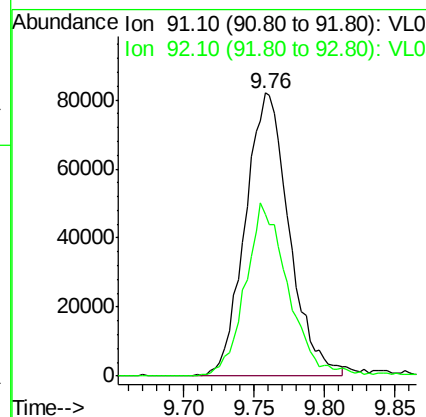
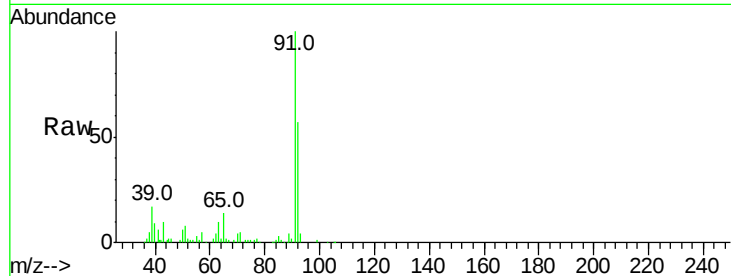
92 60.

Manual Integrations

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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# 2876

Delta R.T. -0.04 min

Lab File: VL038171.D

Acq: 14 Dec 2021 18:07

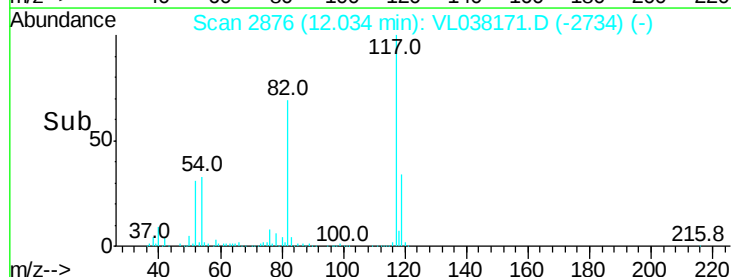
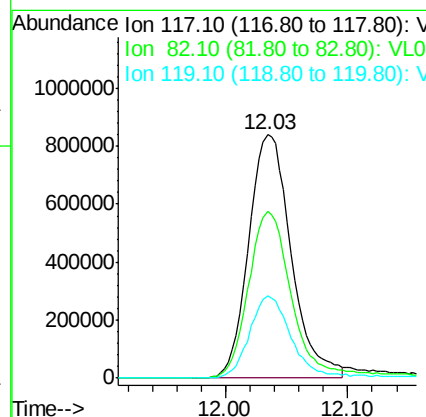
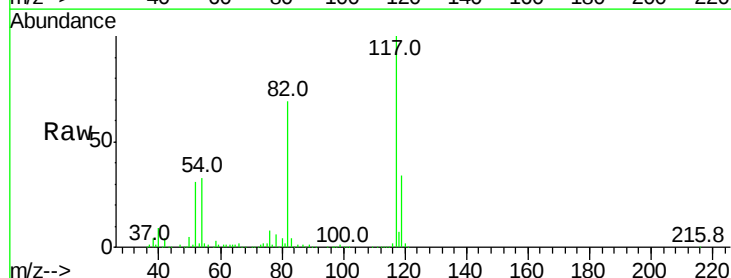
Tgt Ion:117 Resp: 2022580

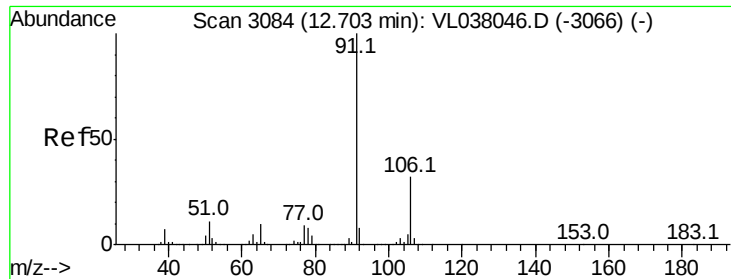
Ion Ratio Lower Upper

117 100

82 74.3 52.8 79.2

119 34.7 26.8 40.2



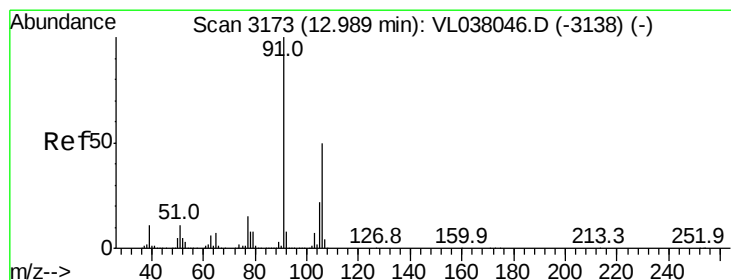
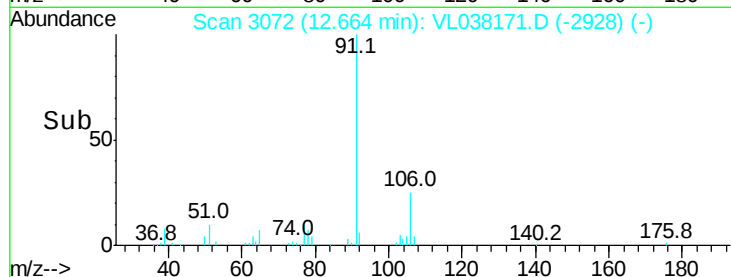
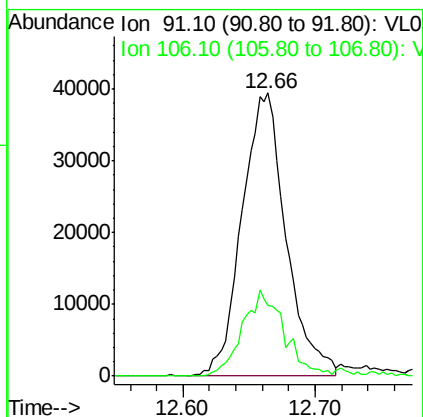
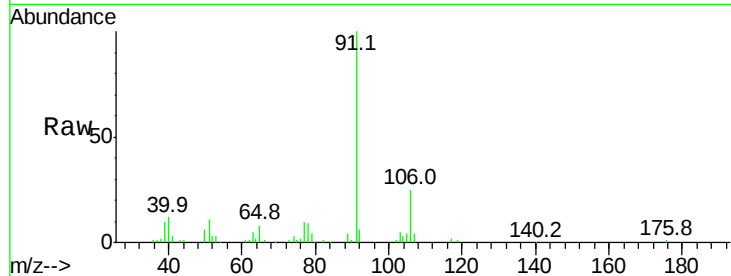


#58
Ethyl Benzene
Concen: 0.273 ppbv m
RT: 12.66
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
91 100
106 24.

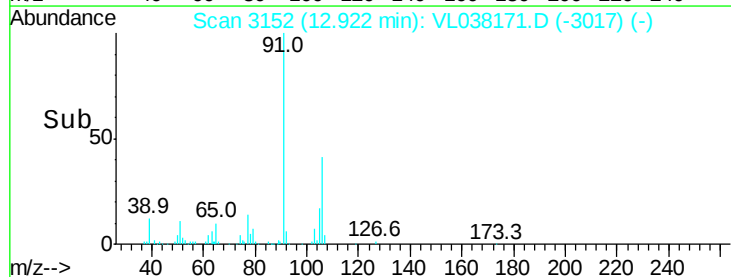
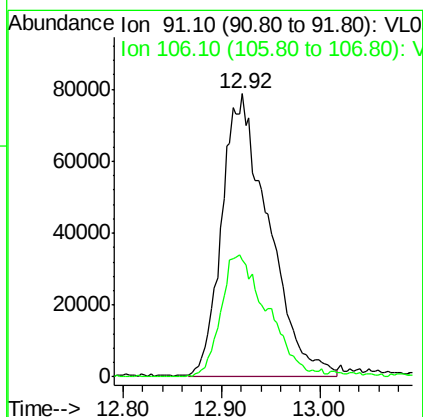
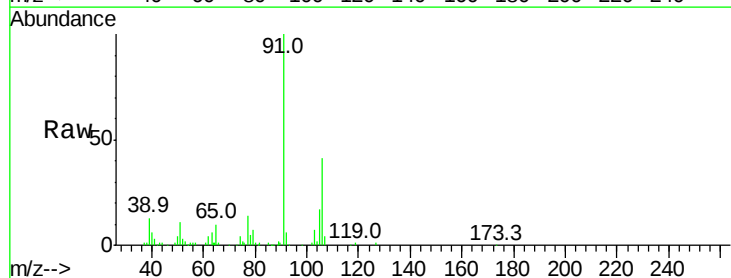
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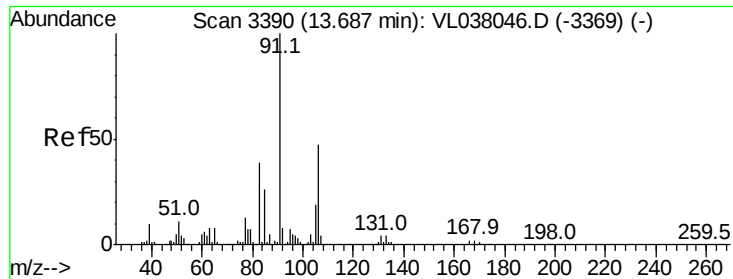
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#59
m/p-Xylene
Concen: 0.929 ppbv m
RT: 12.92 min Scan# 3152
Delta R.T. -0.07 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 91 Resp: 261343
Ion Ratio Lower Upper
91 100
106 44.3 38.1 57.1



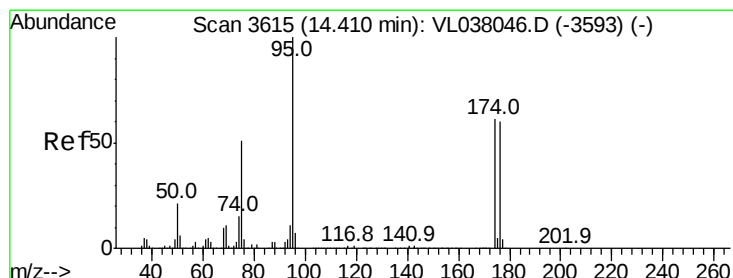
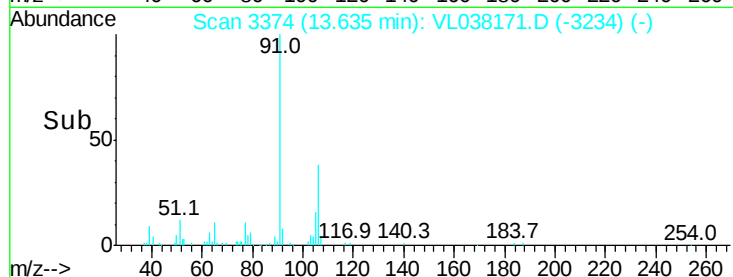
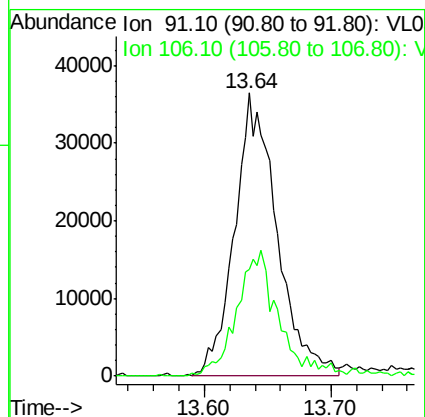
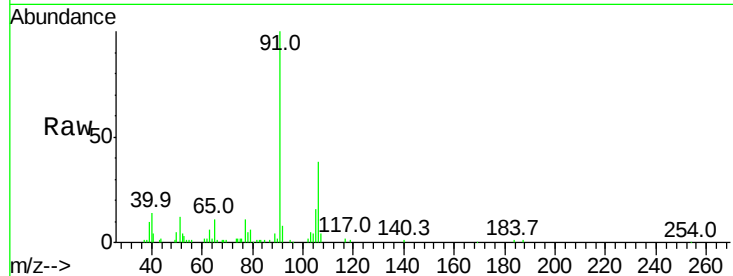


#60
o-Xylene
Concen: 0.324 ppbv m
RT: 13.64
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 Dec 2021 18:07

Tot Ion:
Ion Ratio
91 100
106 0.

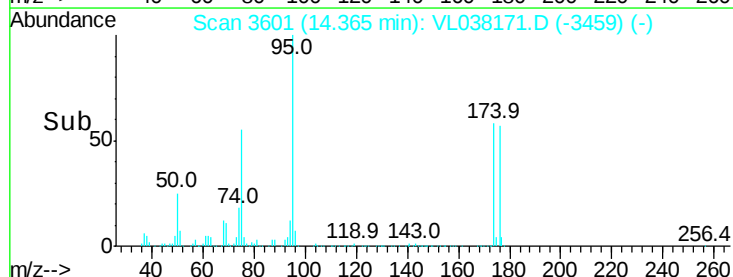
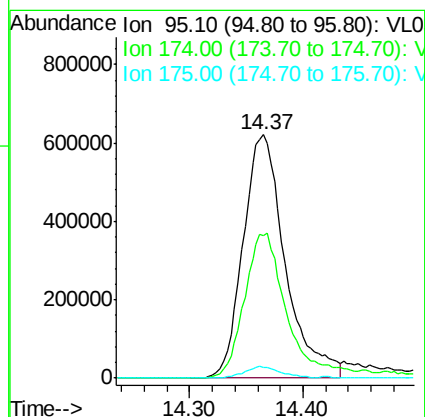
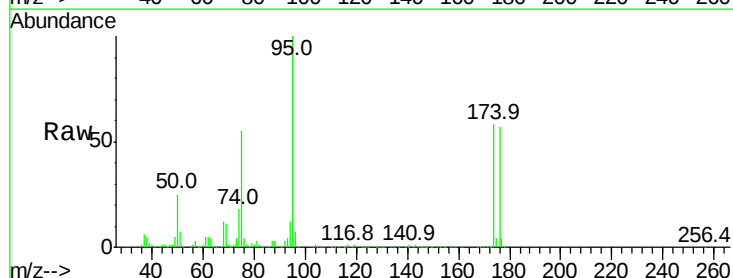
Manual Integrations
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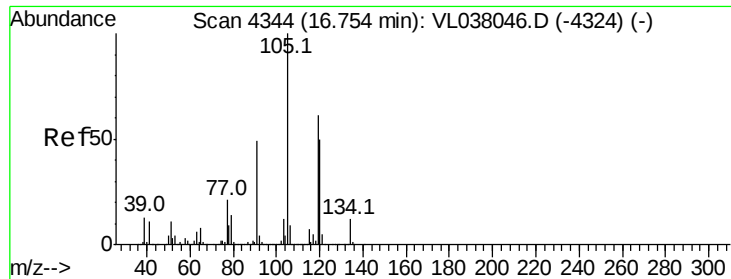
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



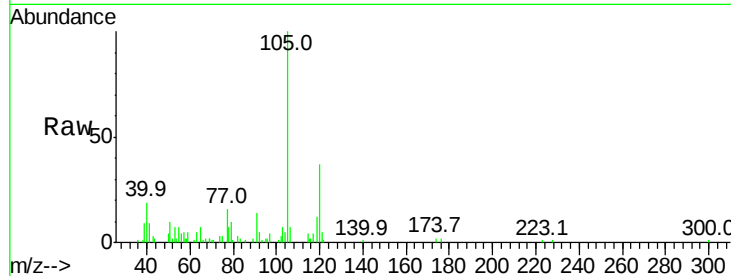
#68
1-Bromo-4-Fluorobenzene
Concen: 11.046 ppbv
RT: 14.37 min Scan# 3601
Delta R.T. -0.04 min
Lab File: VL038171.D
Acq: 14 Dec 2021 18:07

Tgt Ion: 95 Resp: 1611507
Ion Ratio Lower Upper
95 100
174 64.3 53.1 79.7
175 4.6 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.182 ppbv m
 RT: 16.71
 Delta R.T
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 18:07



Tot Ion:1
 Ion Rati
 105 100
 120 37.
 91 13.
 77 15.7 16.6 25.0#

Manual Integrations
 APPROVED

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

