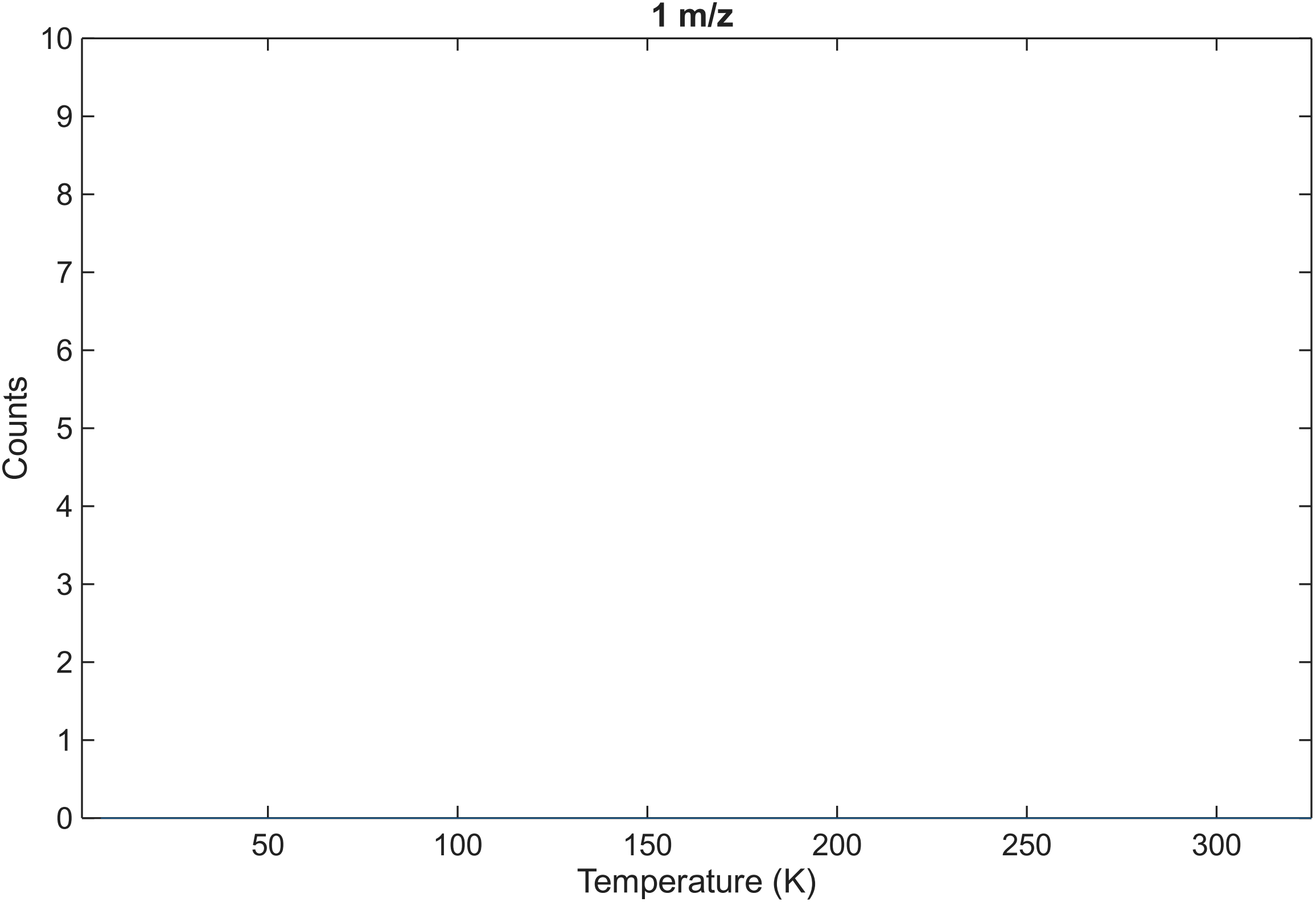
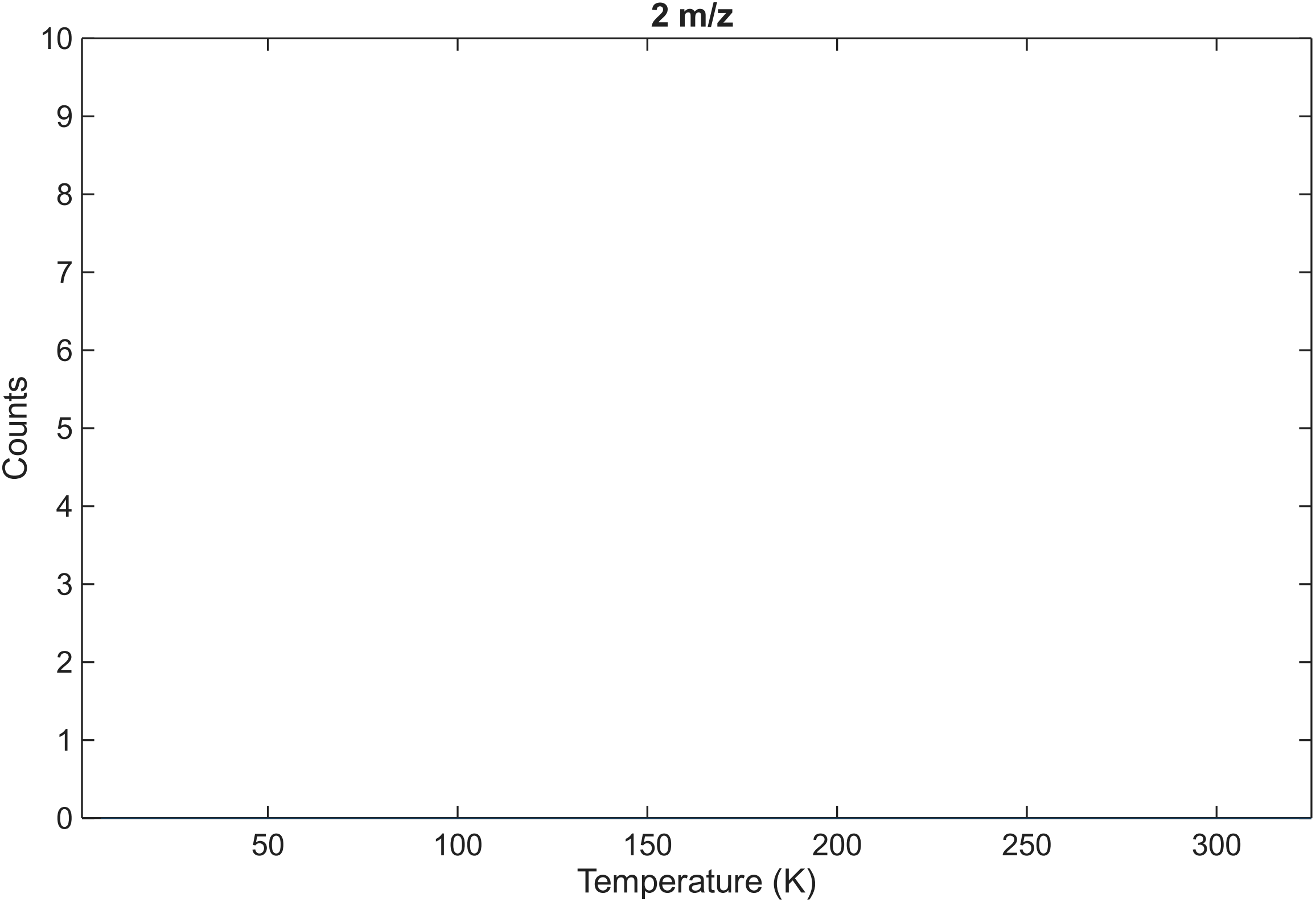
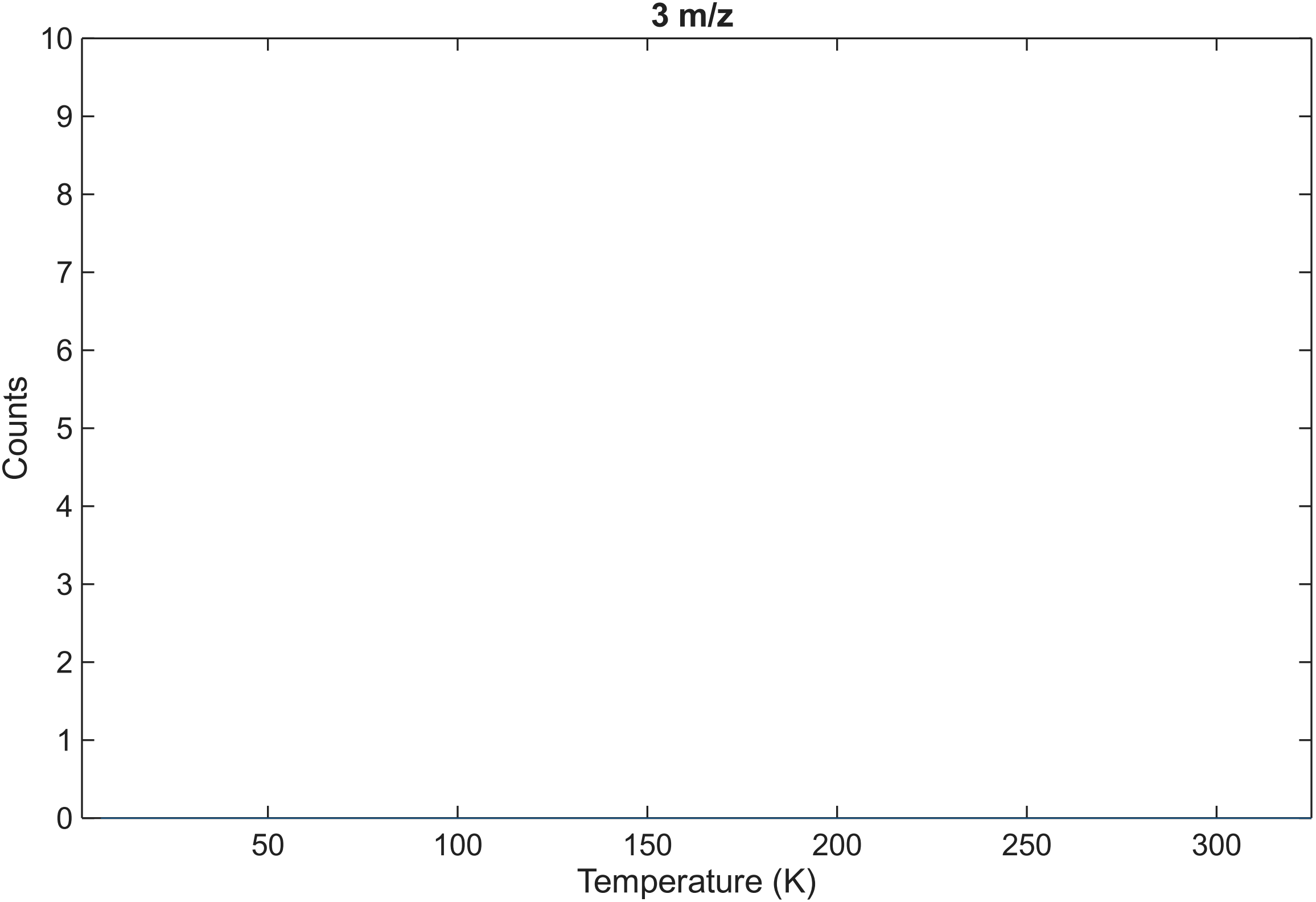
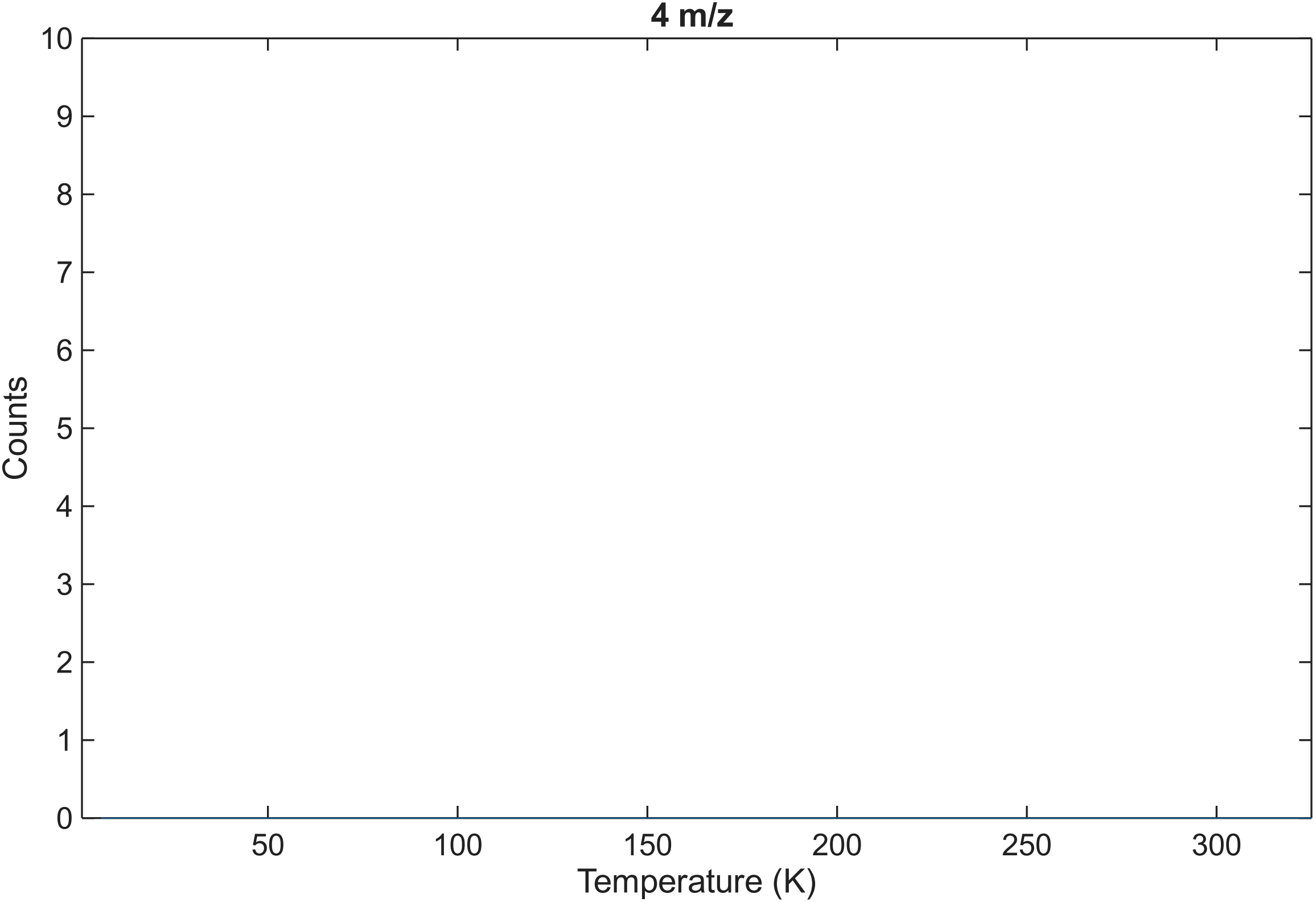
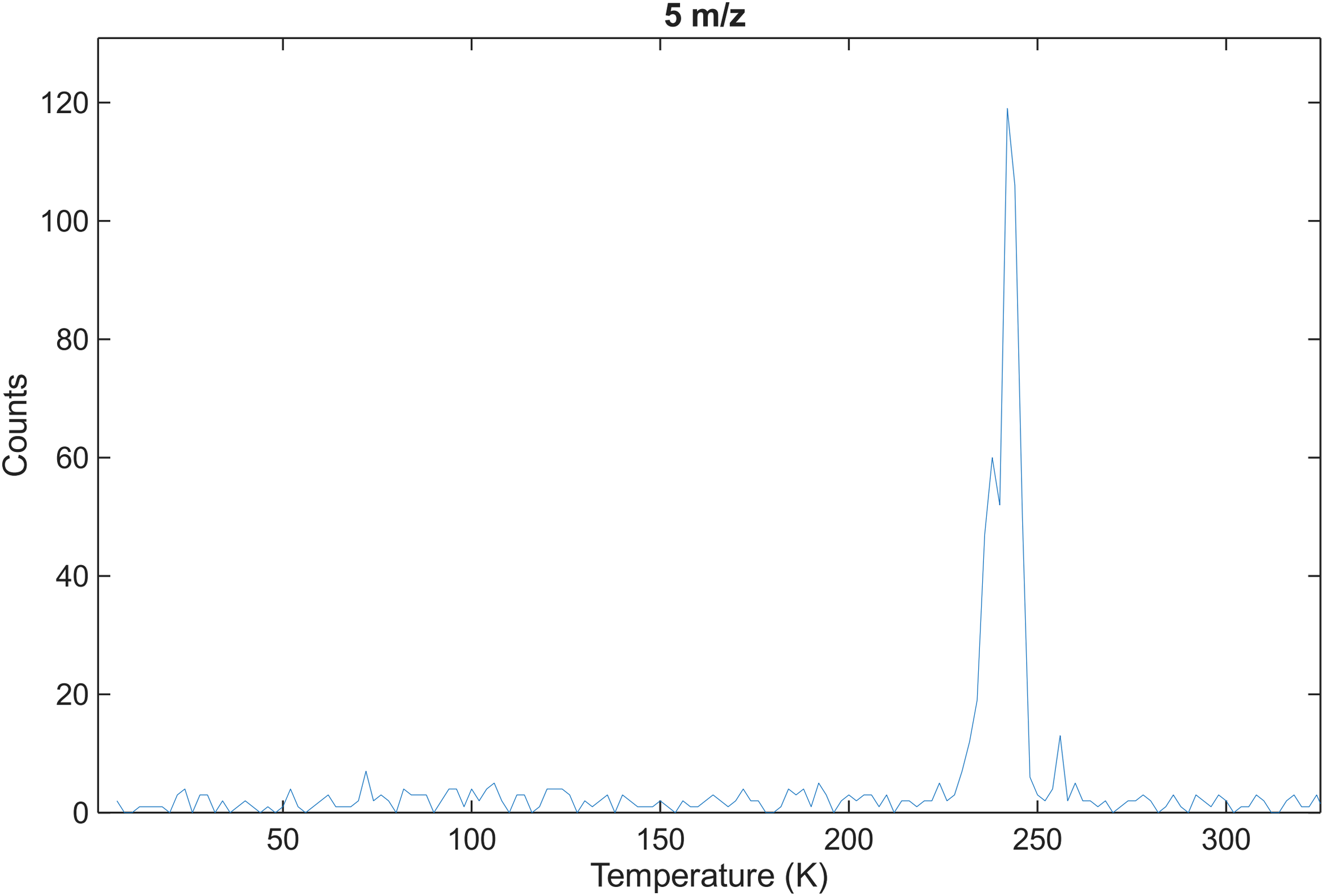
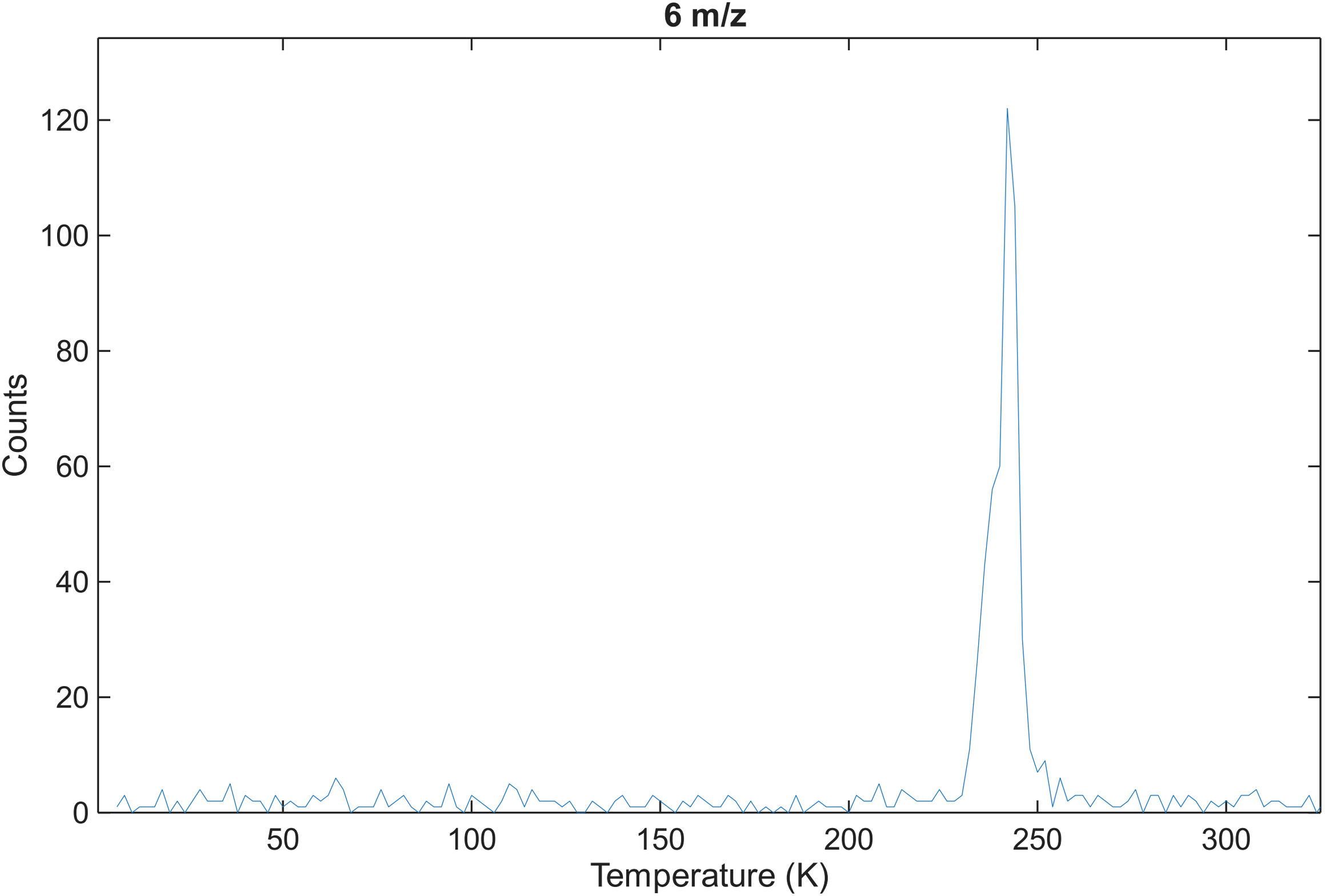

1 m/z
10
9
8
7
6
5
4
3
2
1
0
Counts
50
100
150
200
250
300
Temperature (K)

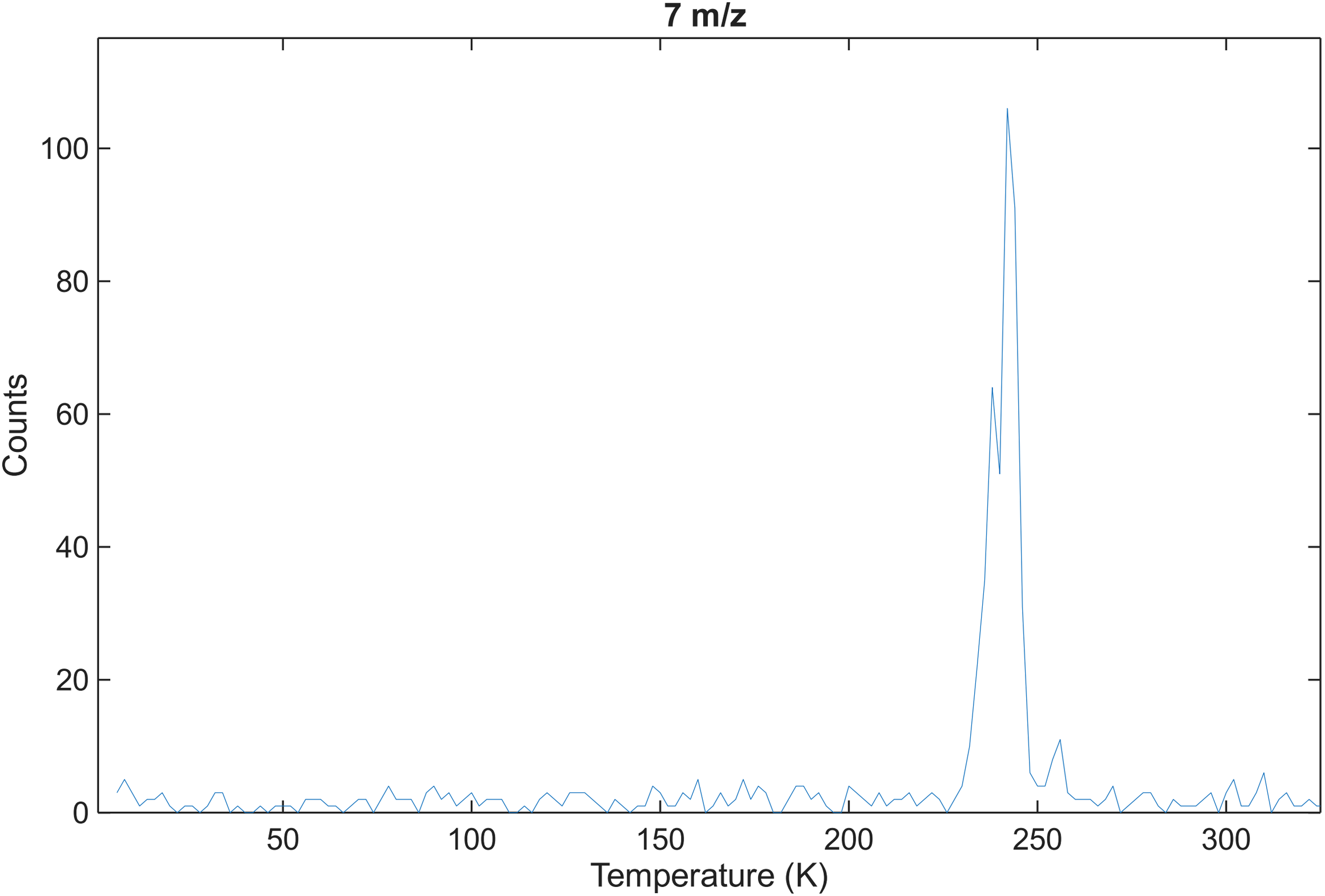

2 m/z
Counts
Temperature (K)
0
1
2
3
4
5
6
7
8
9
10
50
100
150
200
250
300

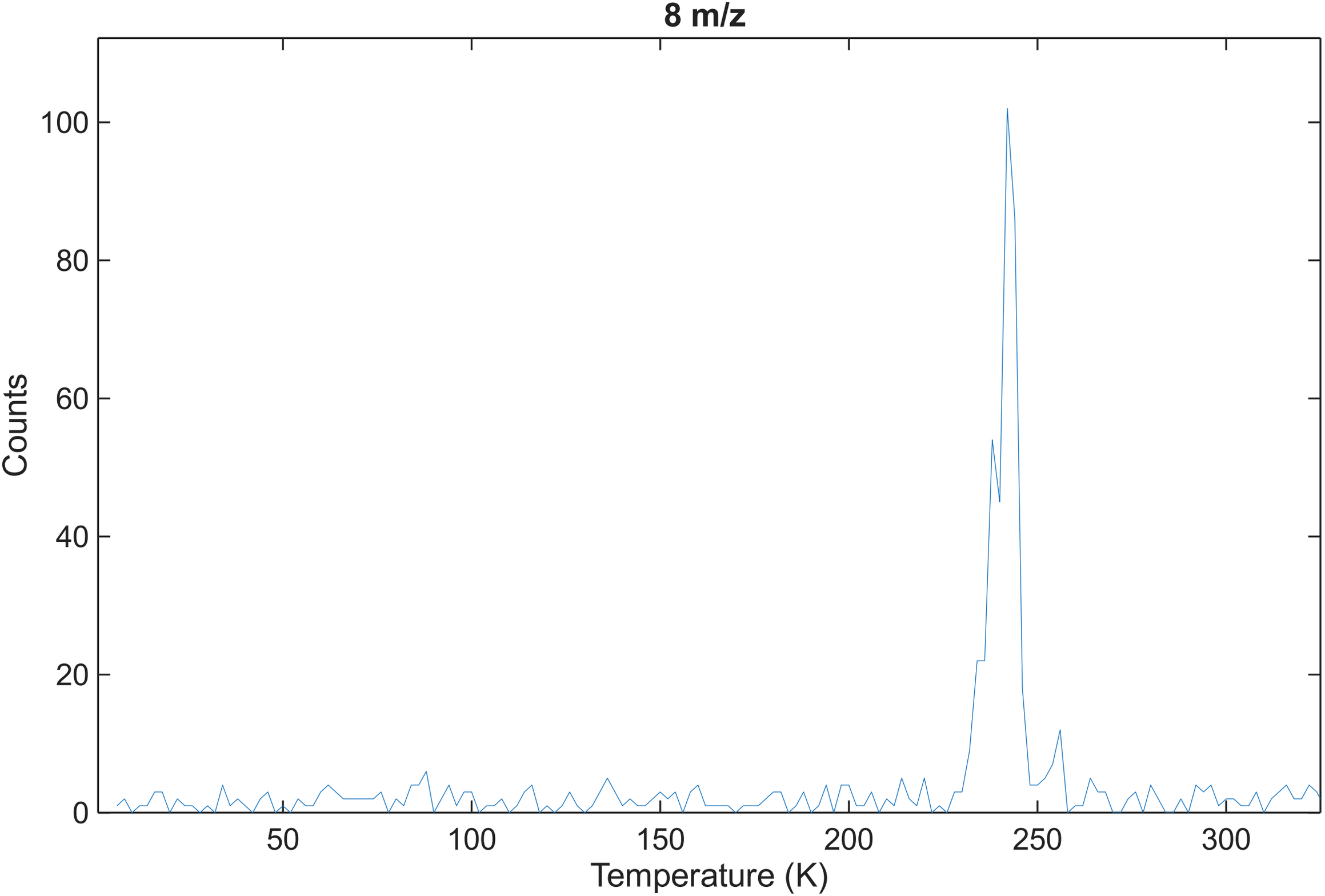

3 m/z
Counts
Temperature (K)
0
1
2
3
4
5
6
7
8
9
10
50
100
150
200
250
300

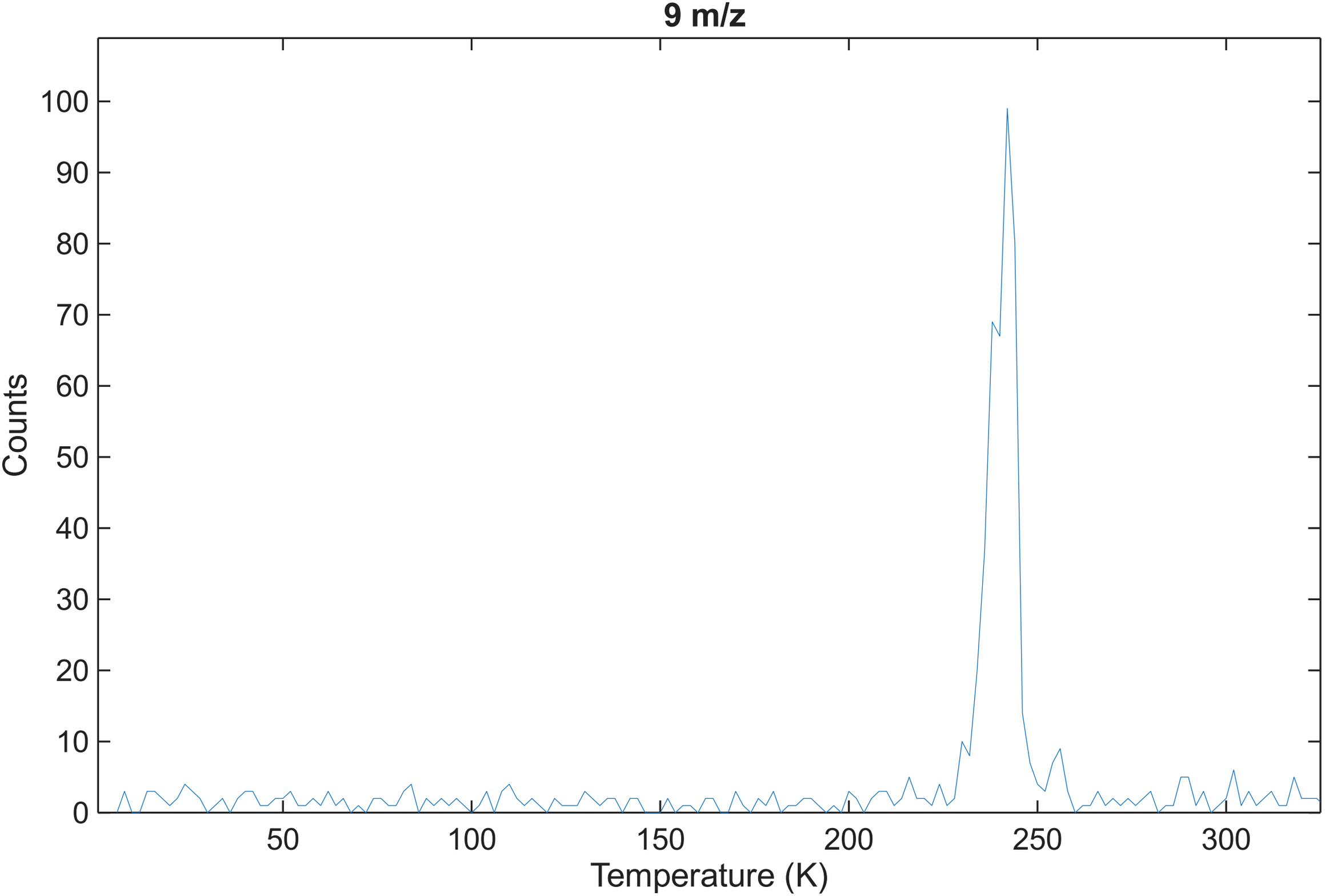

4 m/z
Counts
Temperature (K)
0
1
2
3
4
5
6
7
8
9
10
50
100
150
200
250
300

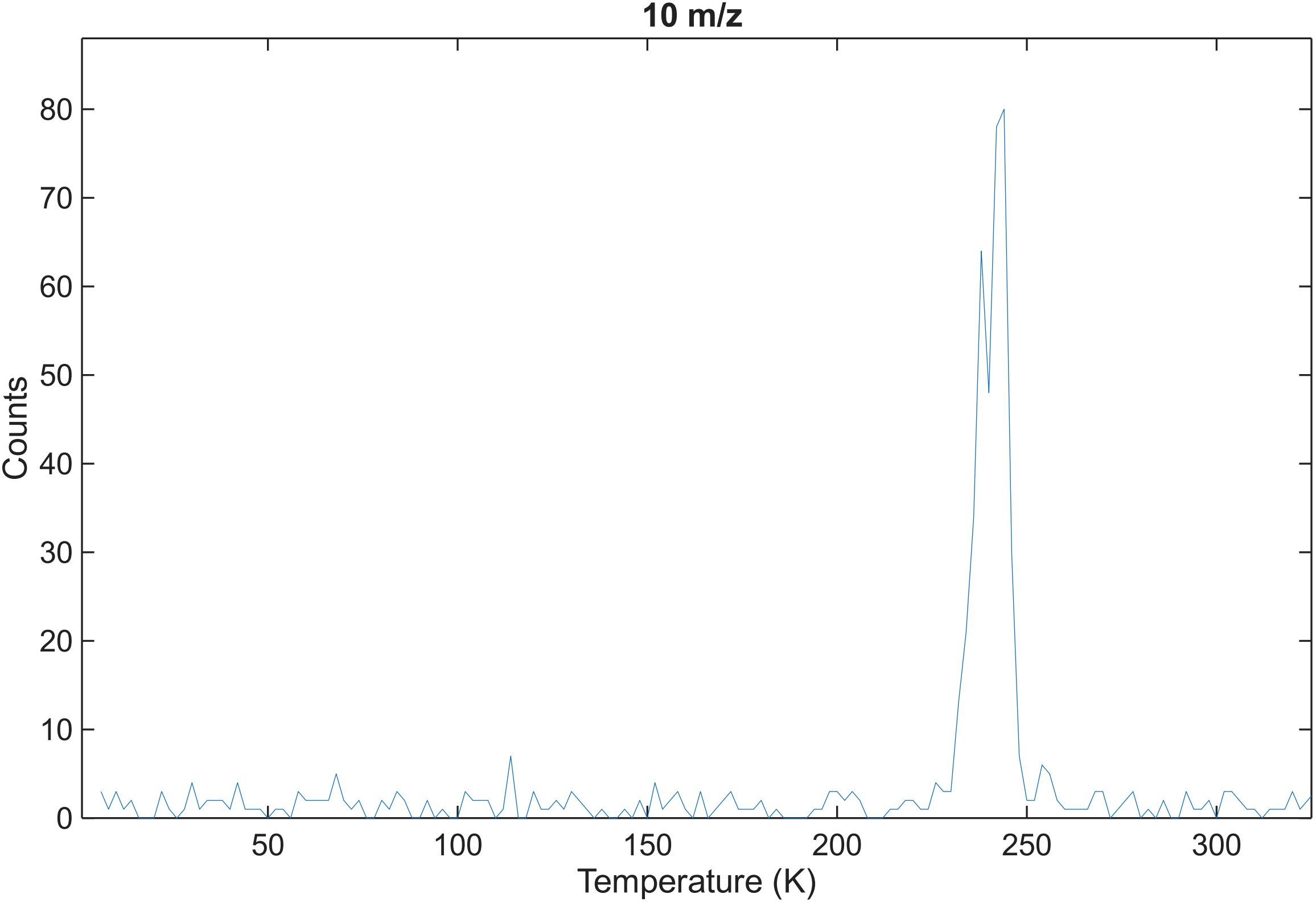

5 m/z
Counts
Temperature (K)
0
20
40
60
80
100
120
50
100
150
200
250
300

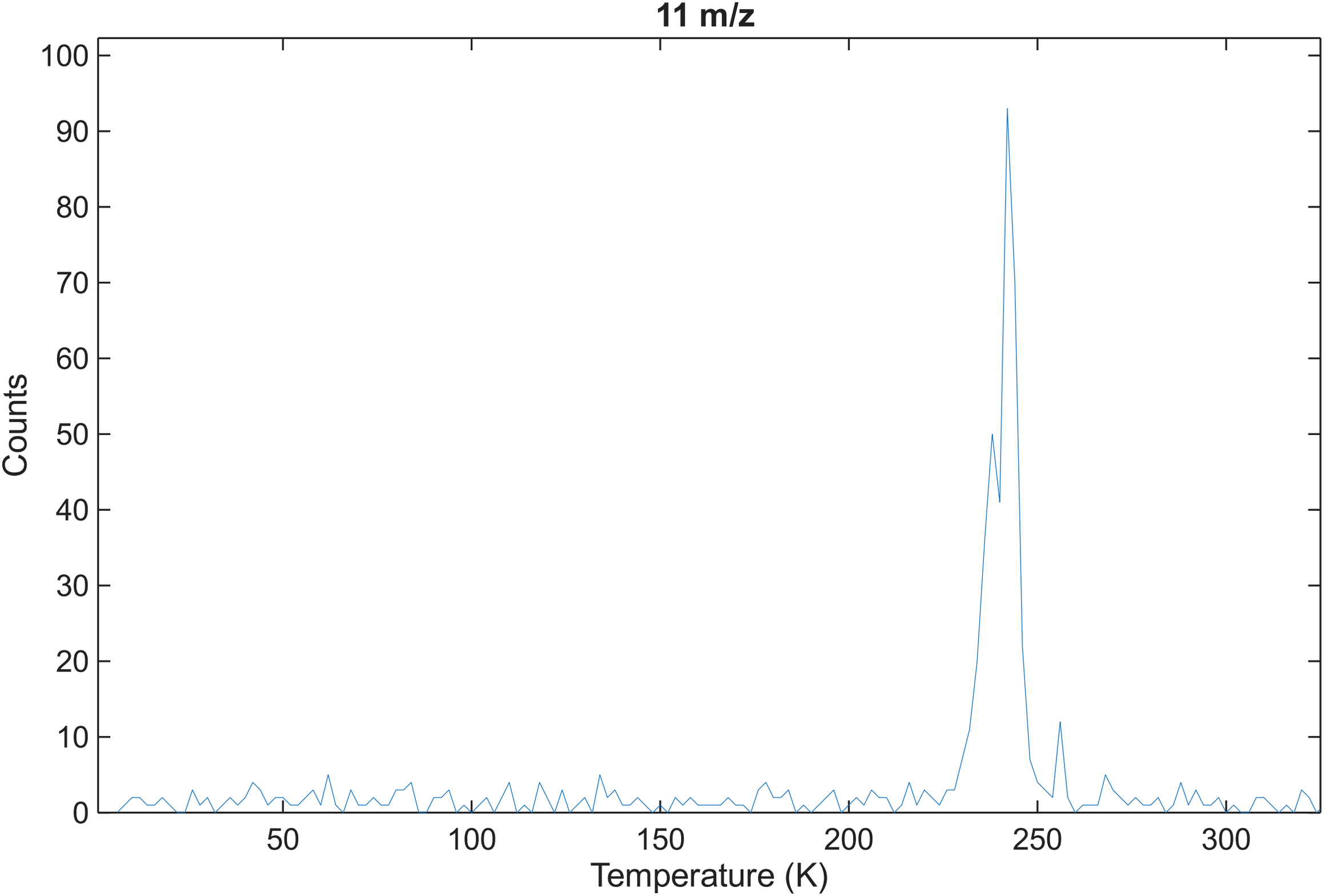

6 m/z
Counts
Temperature (K)
0
20
40
60
80
100
120
50
100
150
200
250
300

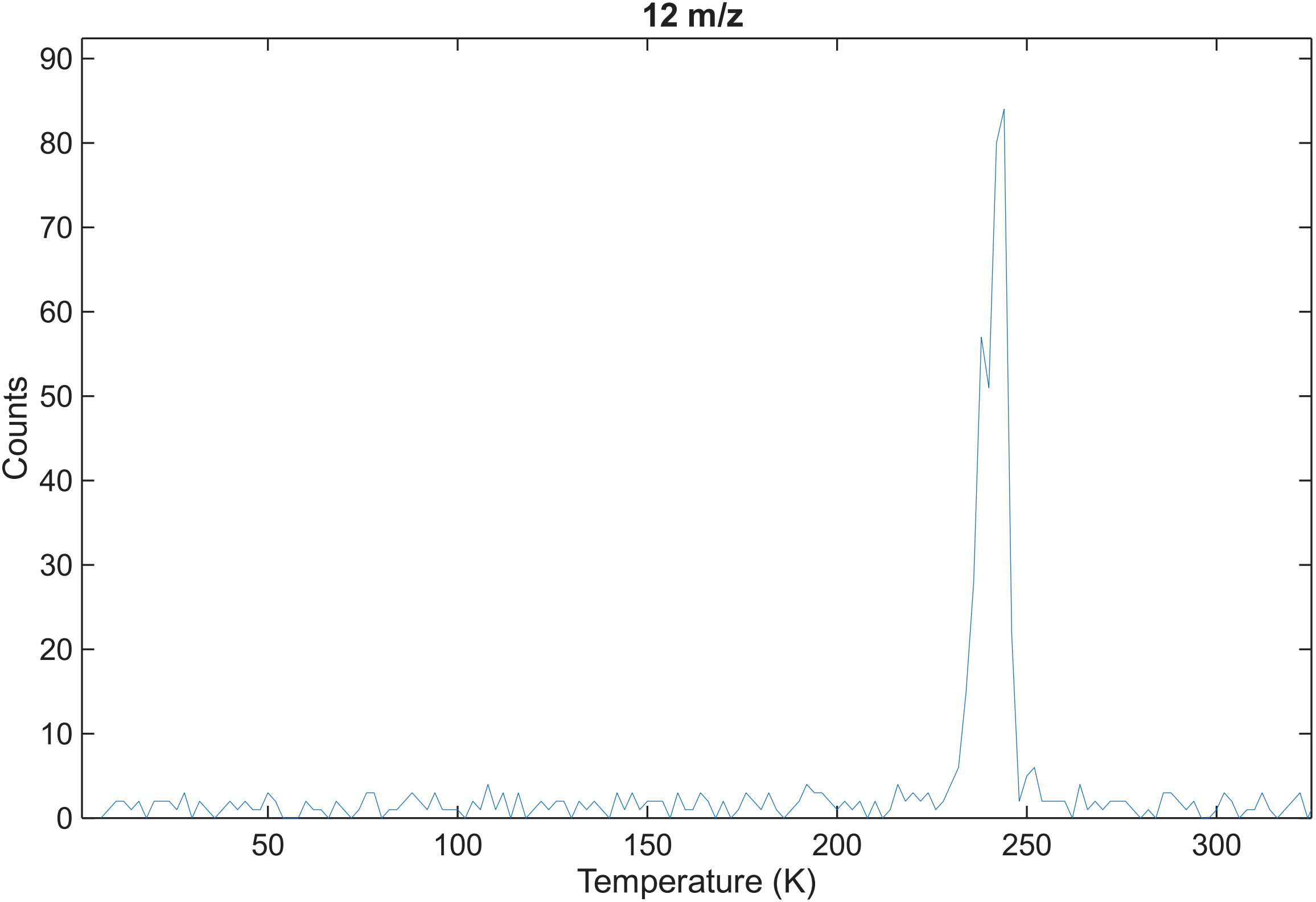

7 m/z
Counts
Temperature (K)
0
20
40
60
80
100
50
100
150
200
250
300

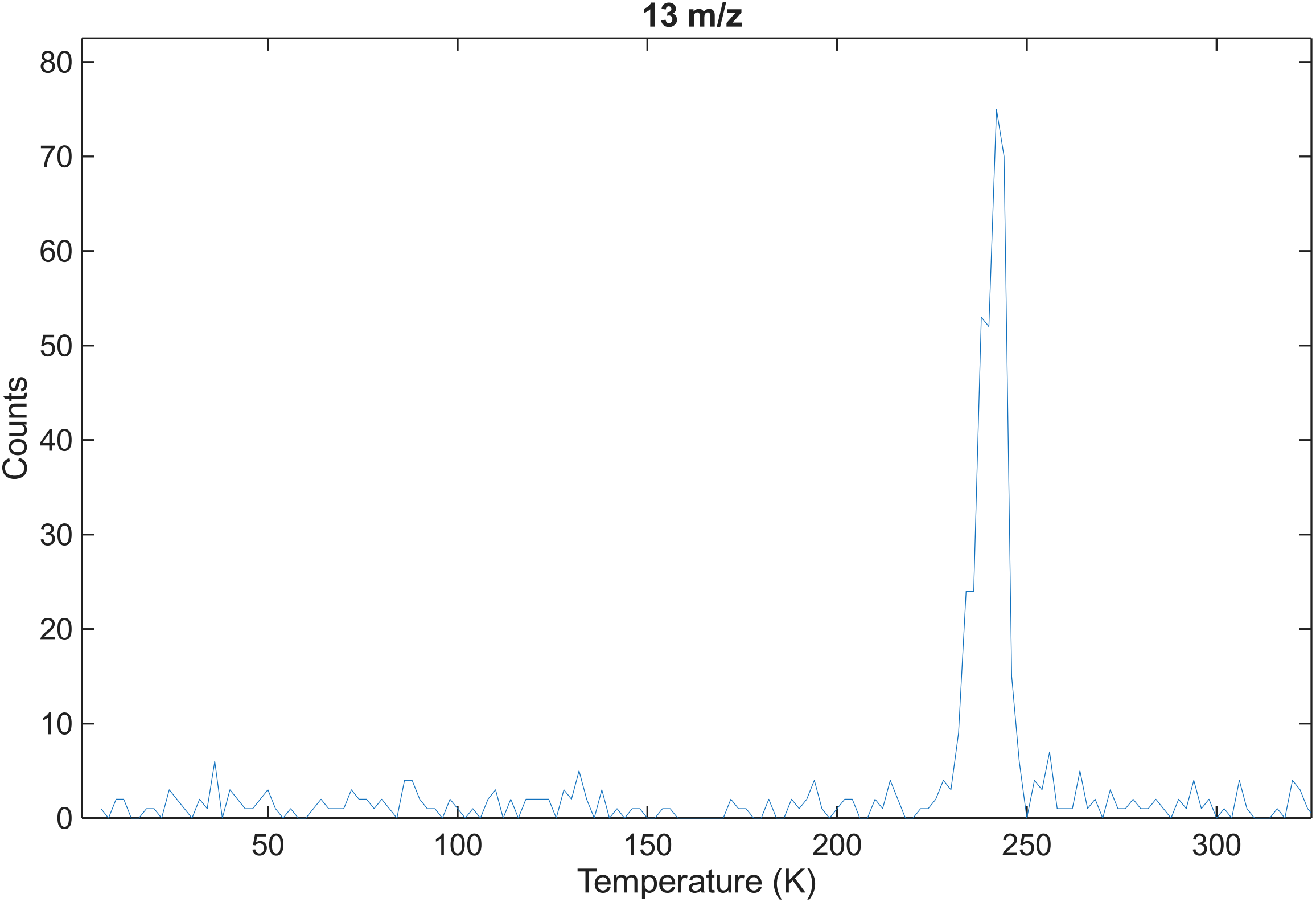

8 m/z
Counts
Temperature (K)
0
20
40
60
80
100
50
100
150
200
250
300

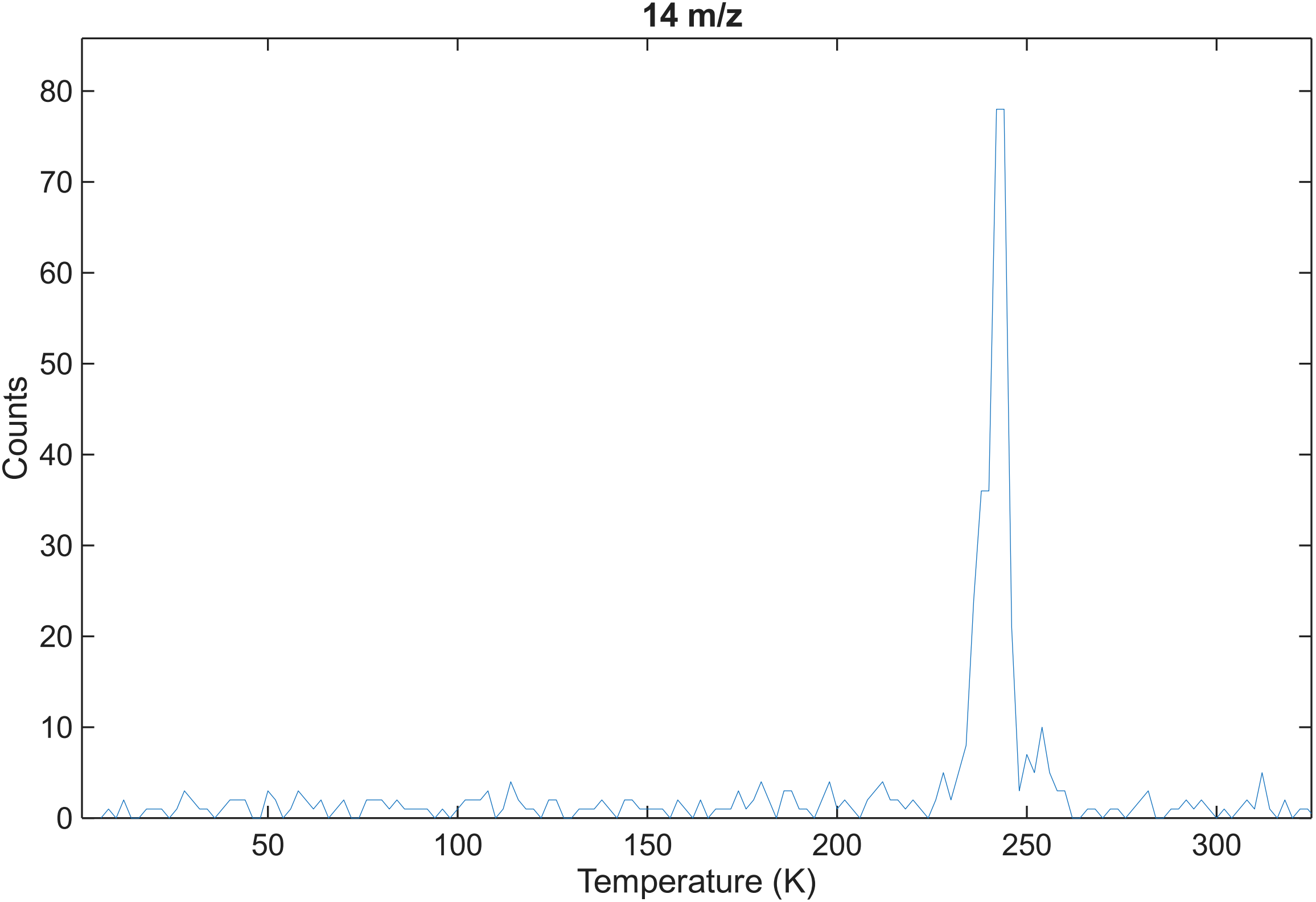

9 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
100
50
100
150
200
250
300

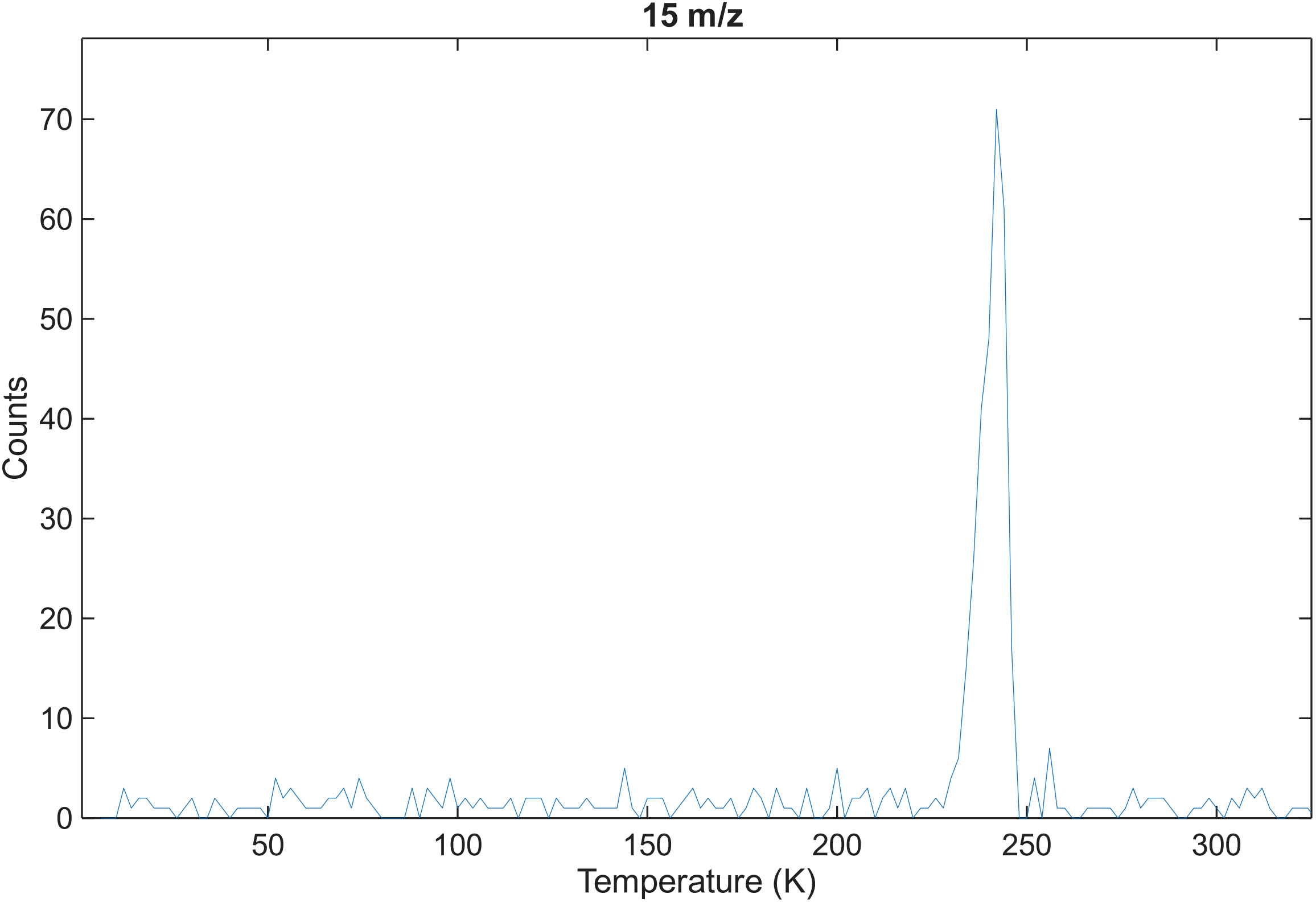

10 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
50
100
150
200
250
300

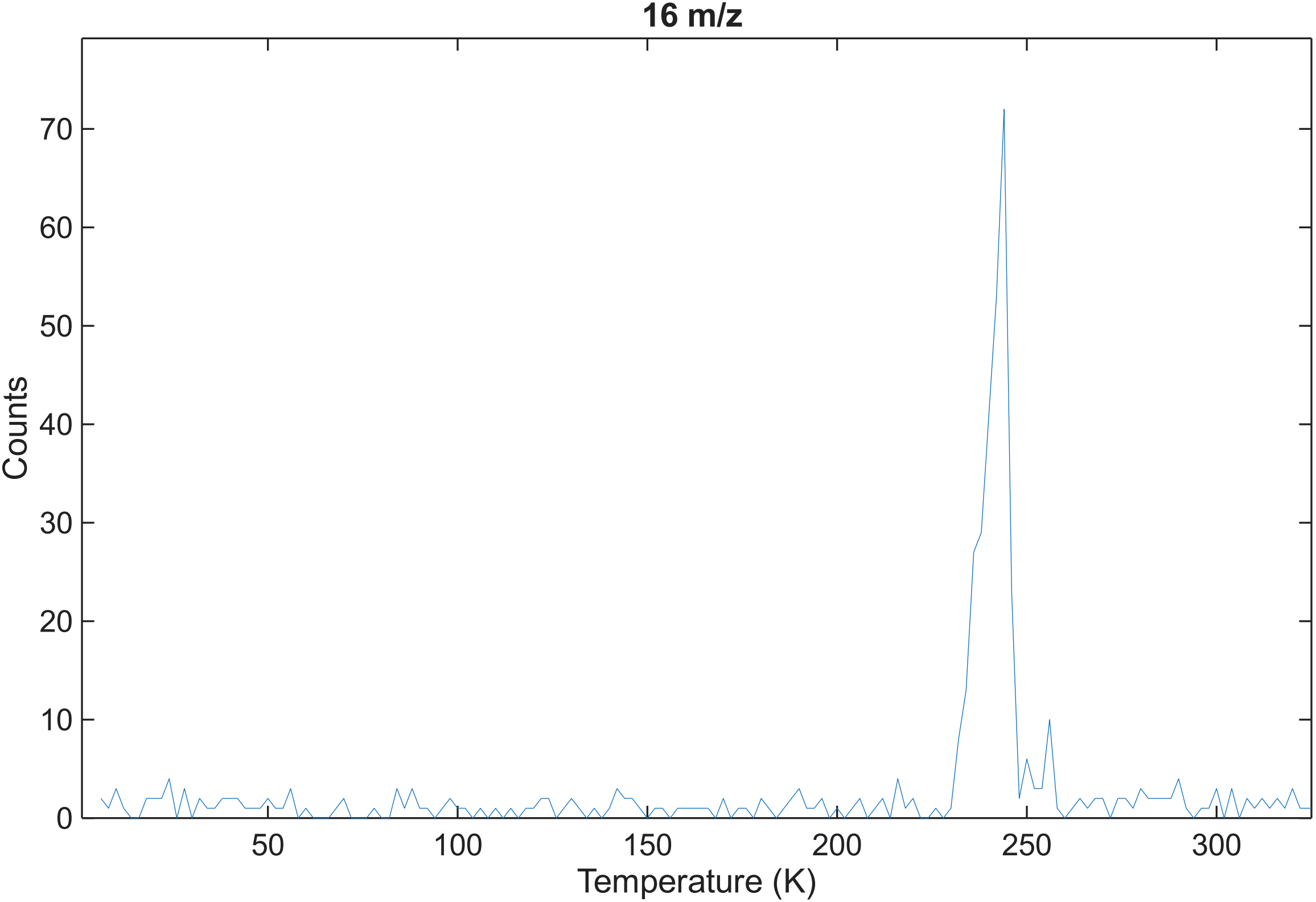

11 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
100
50
100
150
200
250
300

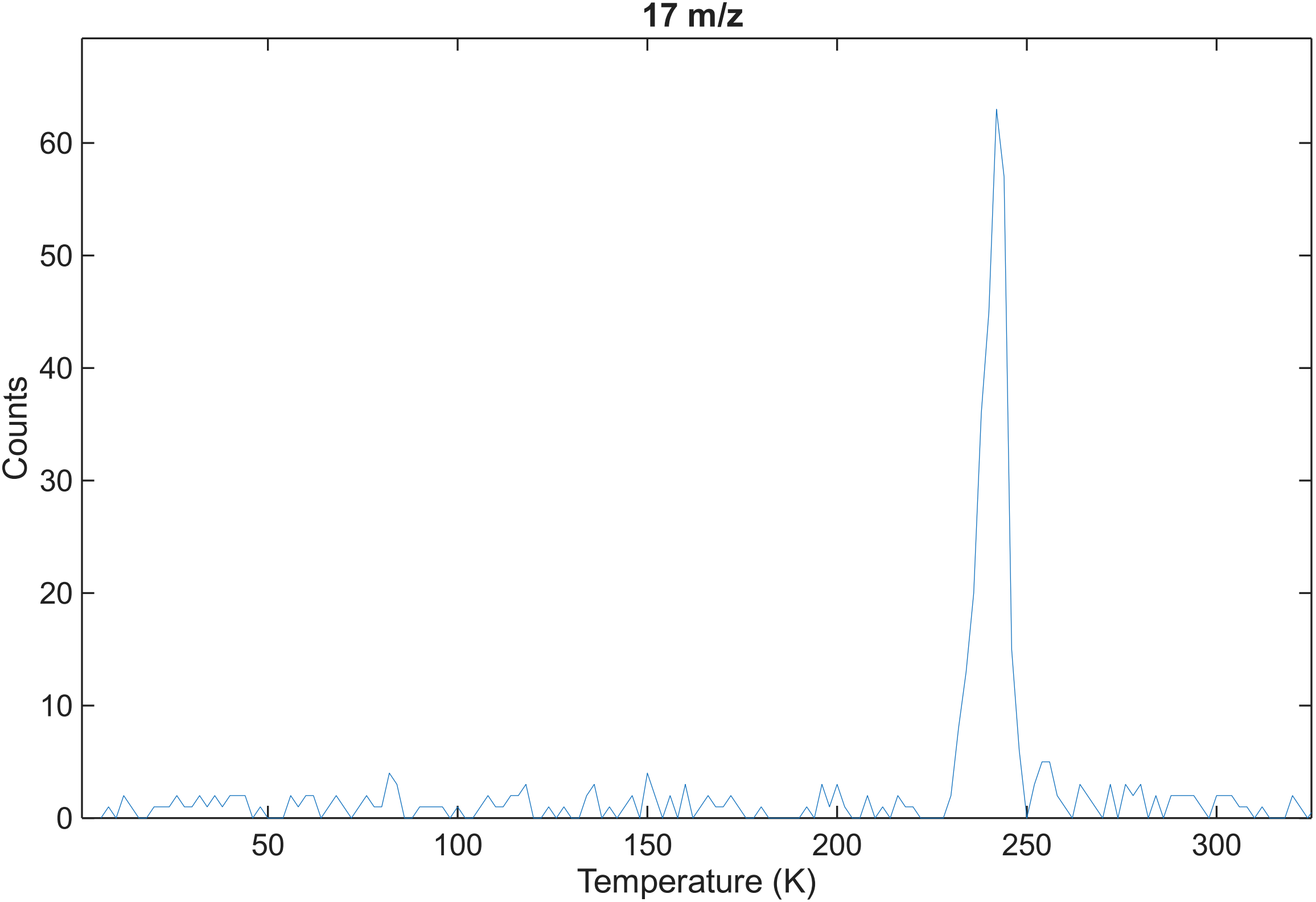

12 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
50
100
150
200
250
300

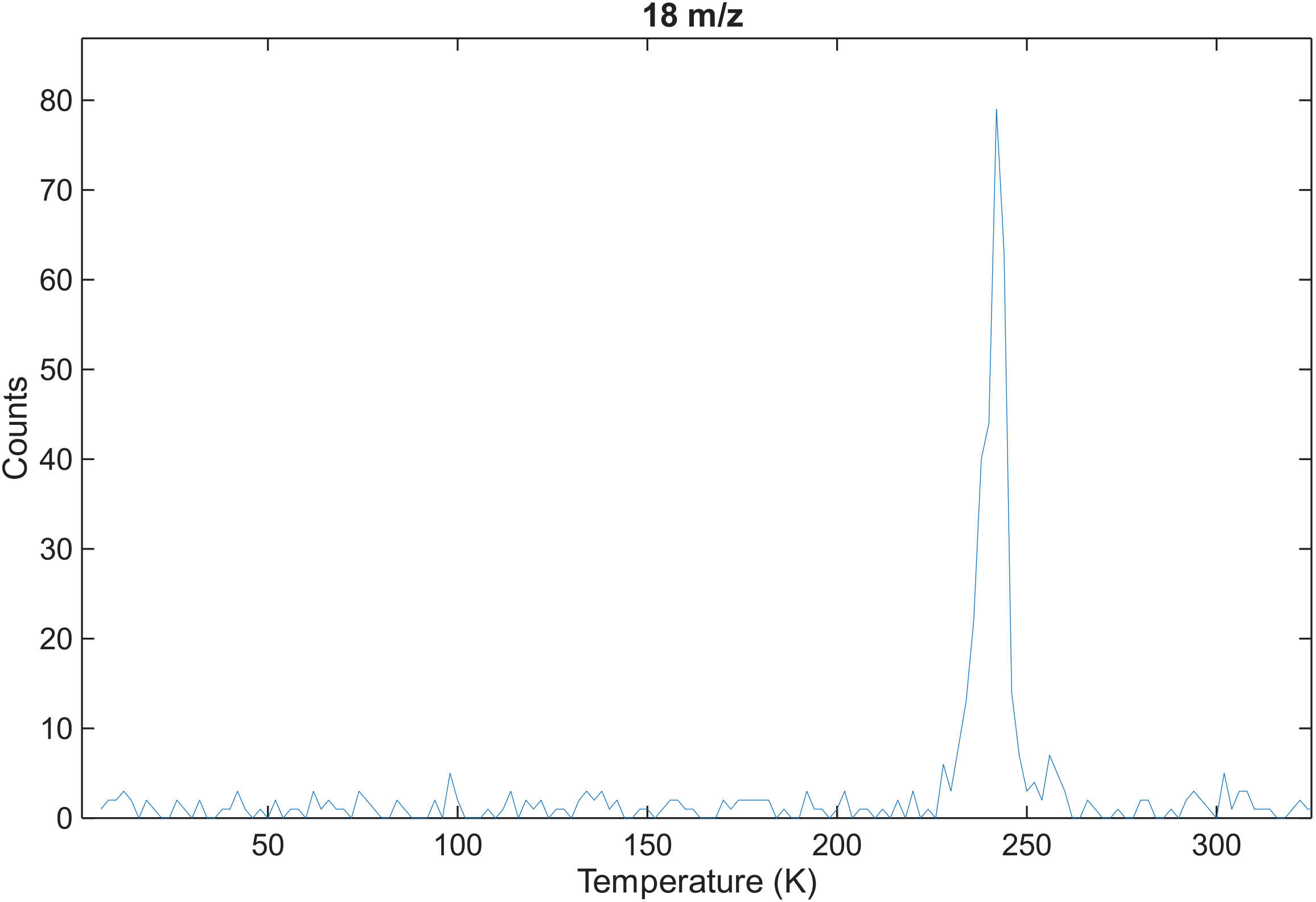

13 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
50
100
150
200
250
300

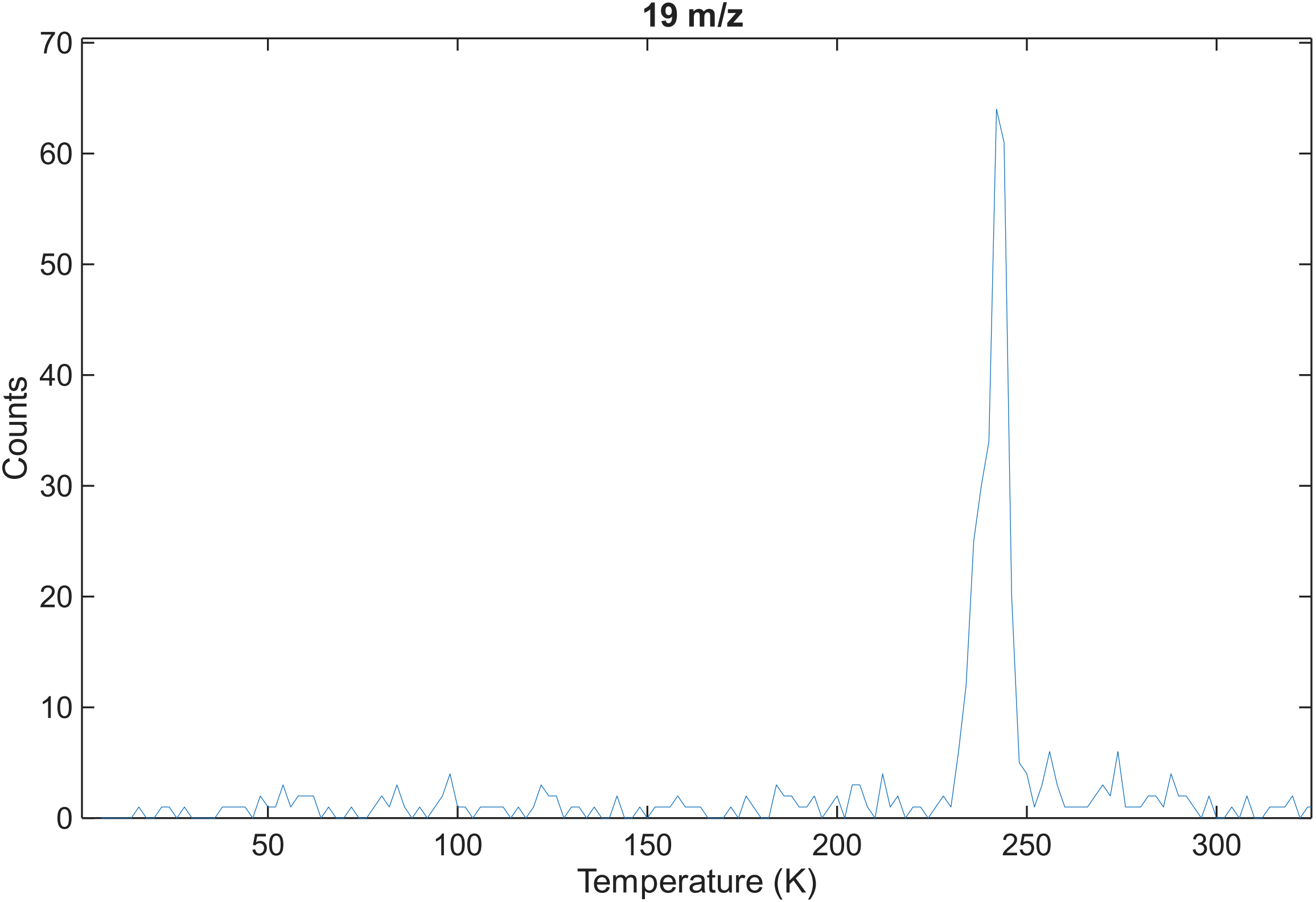

14 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
50
100
150
200
250
300

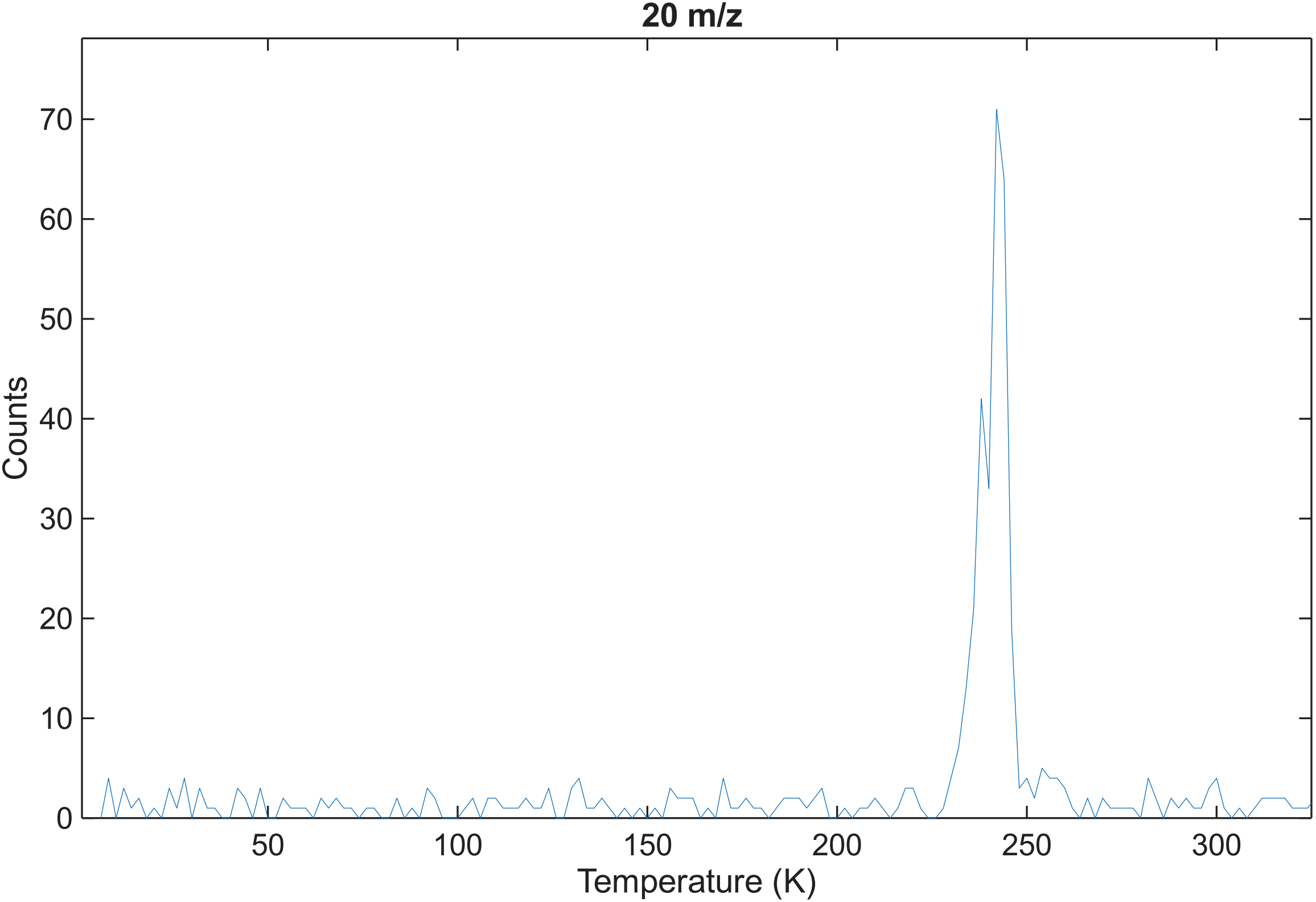

15 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
50
100
150
200
250
300

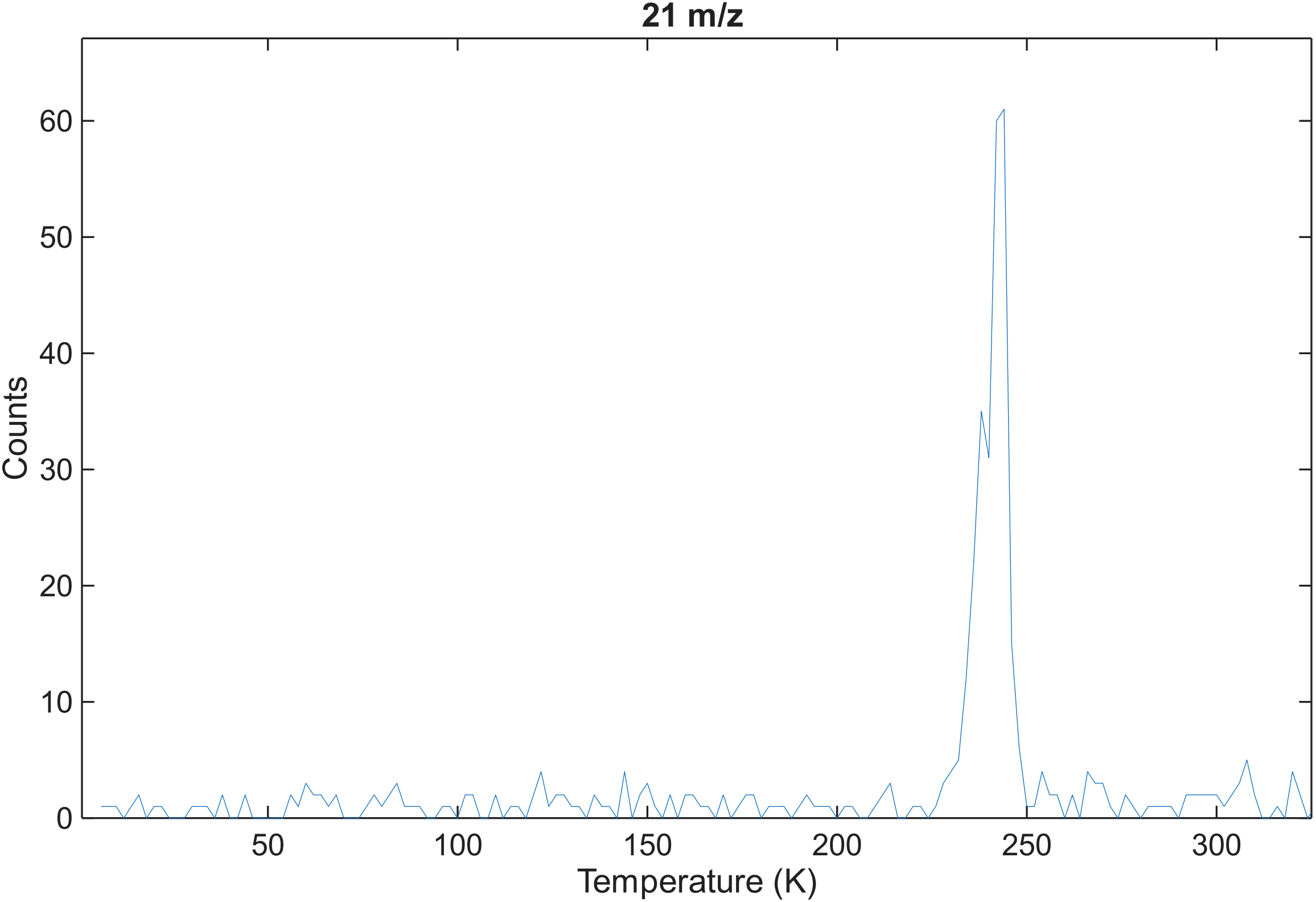

16 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
50
100
150
200
250
300

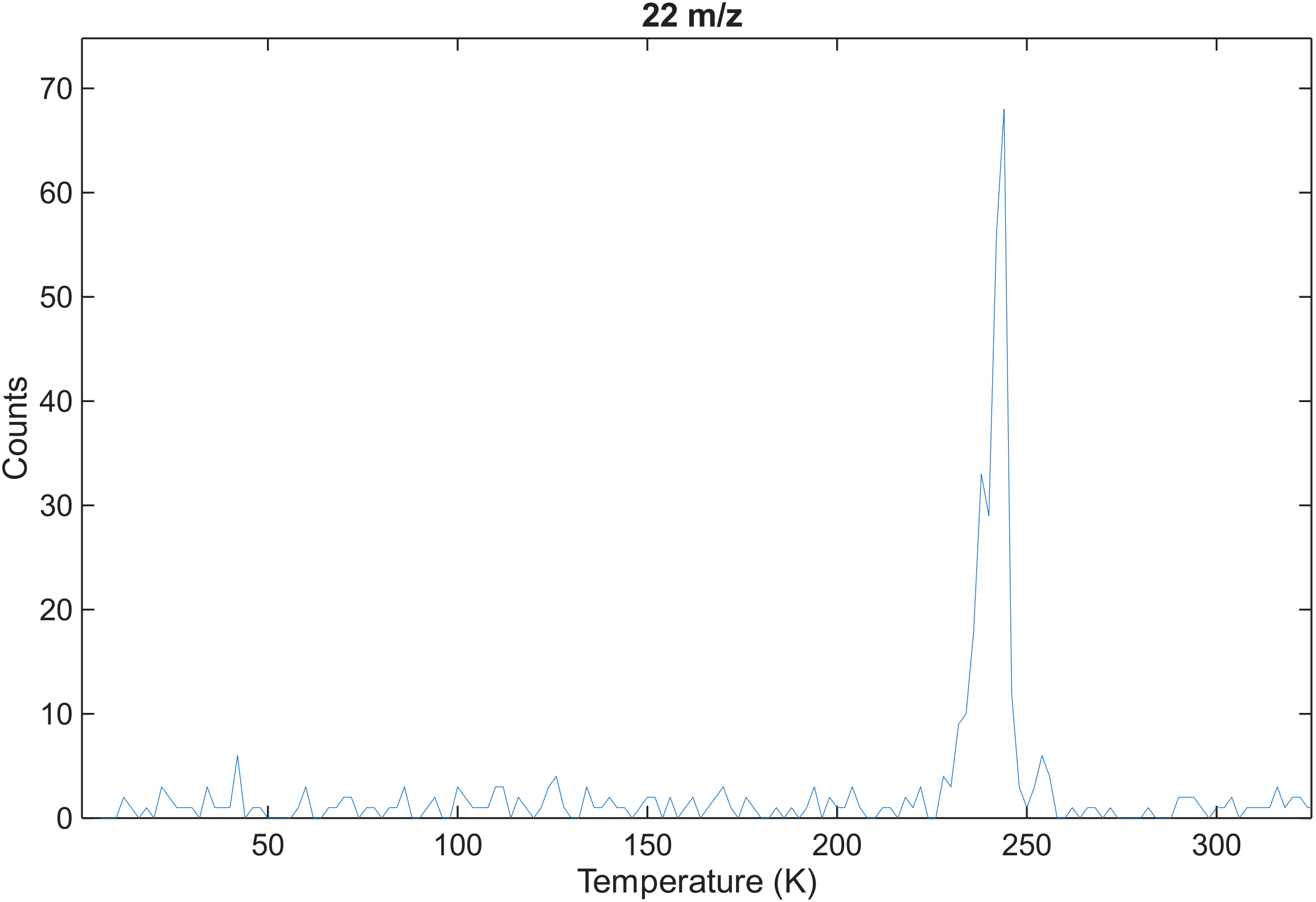

17 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
50
100
150
200
250
300

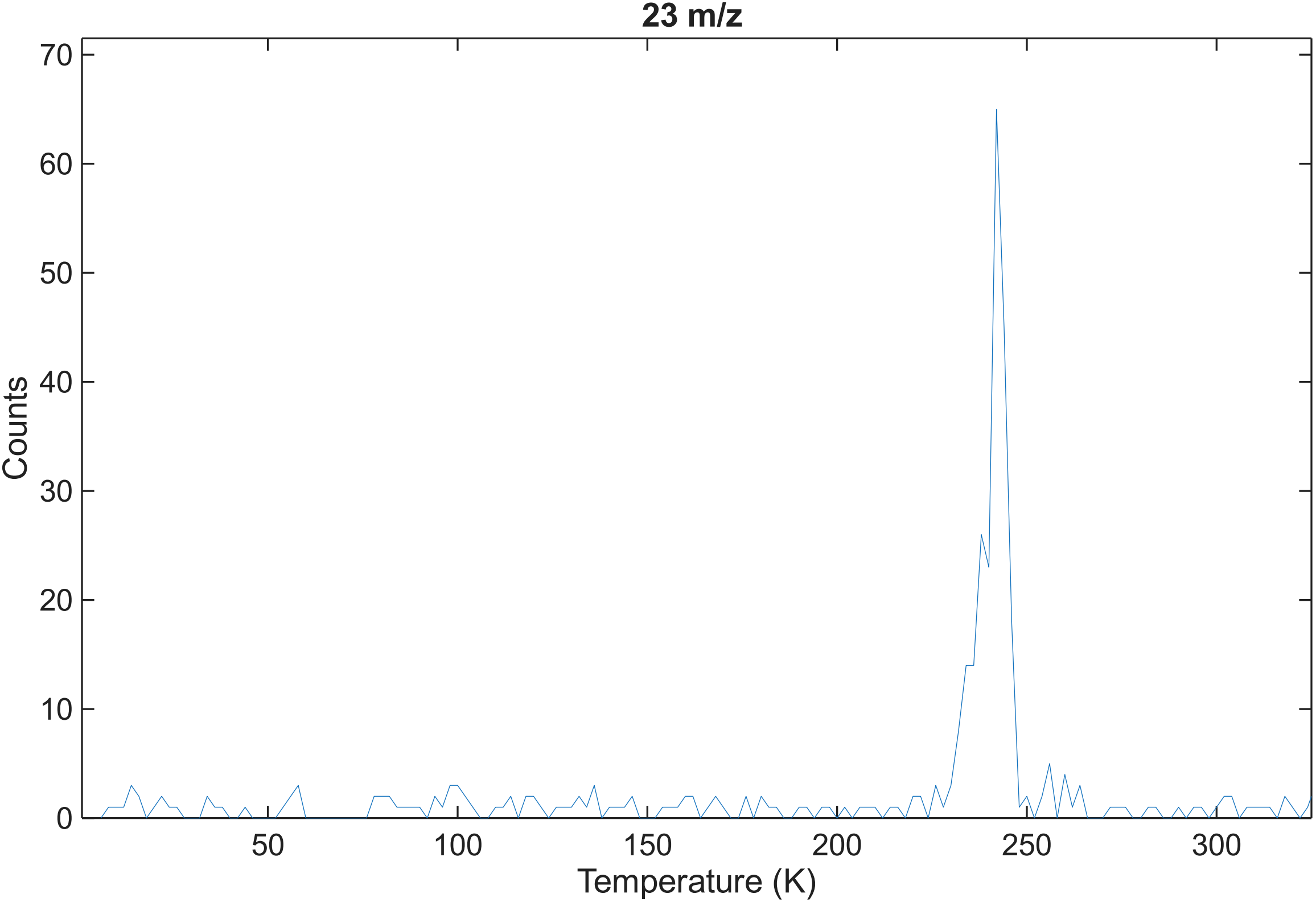

18 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
50
100
150
200
250
300

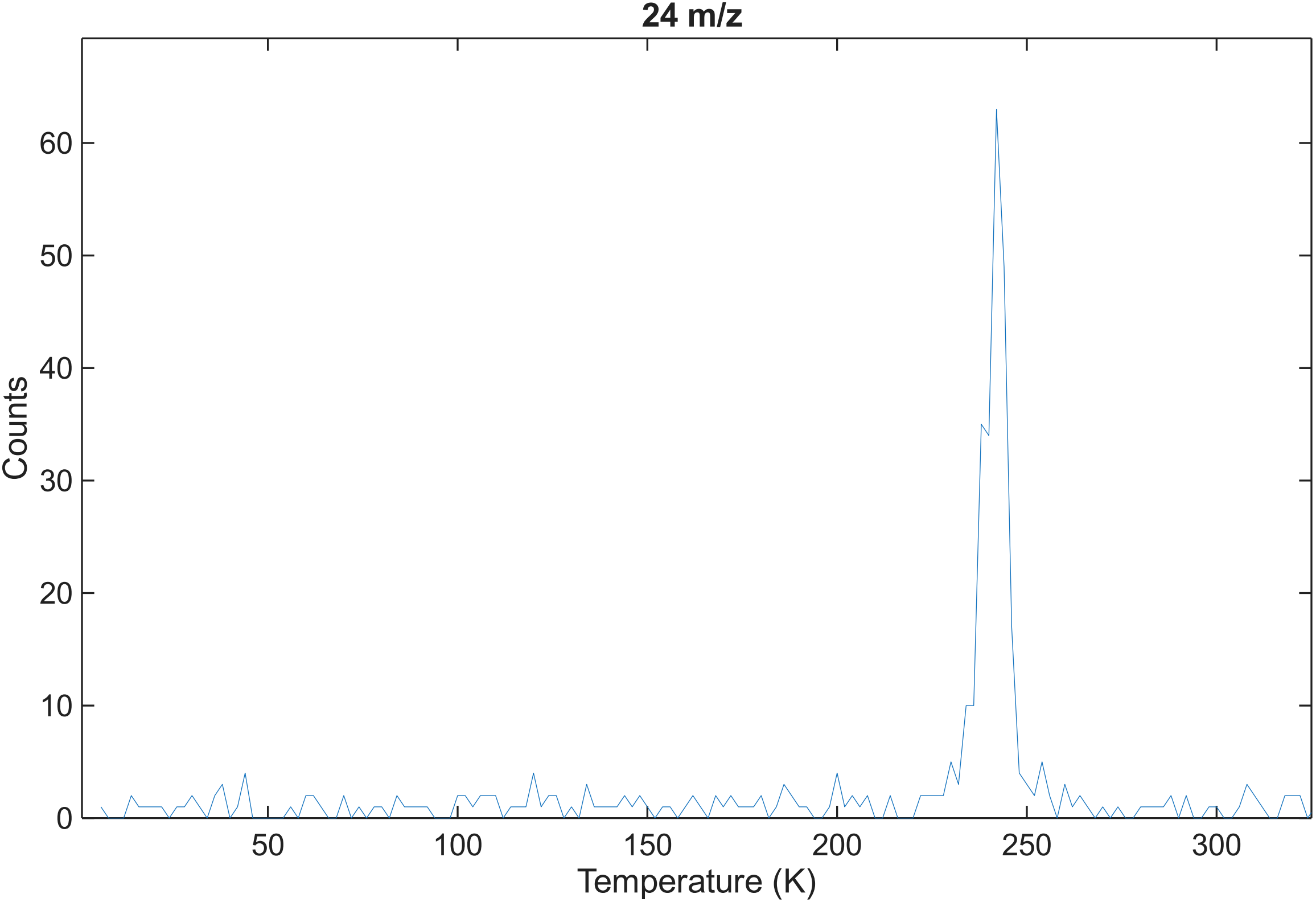

19 m/z
70
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)

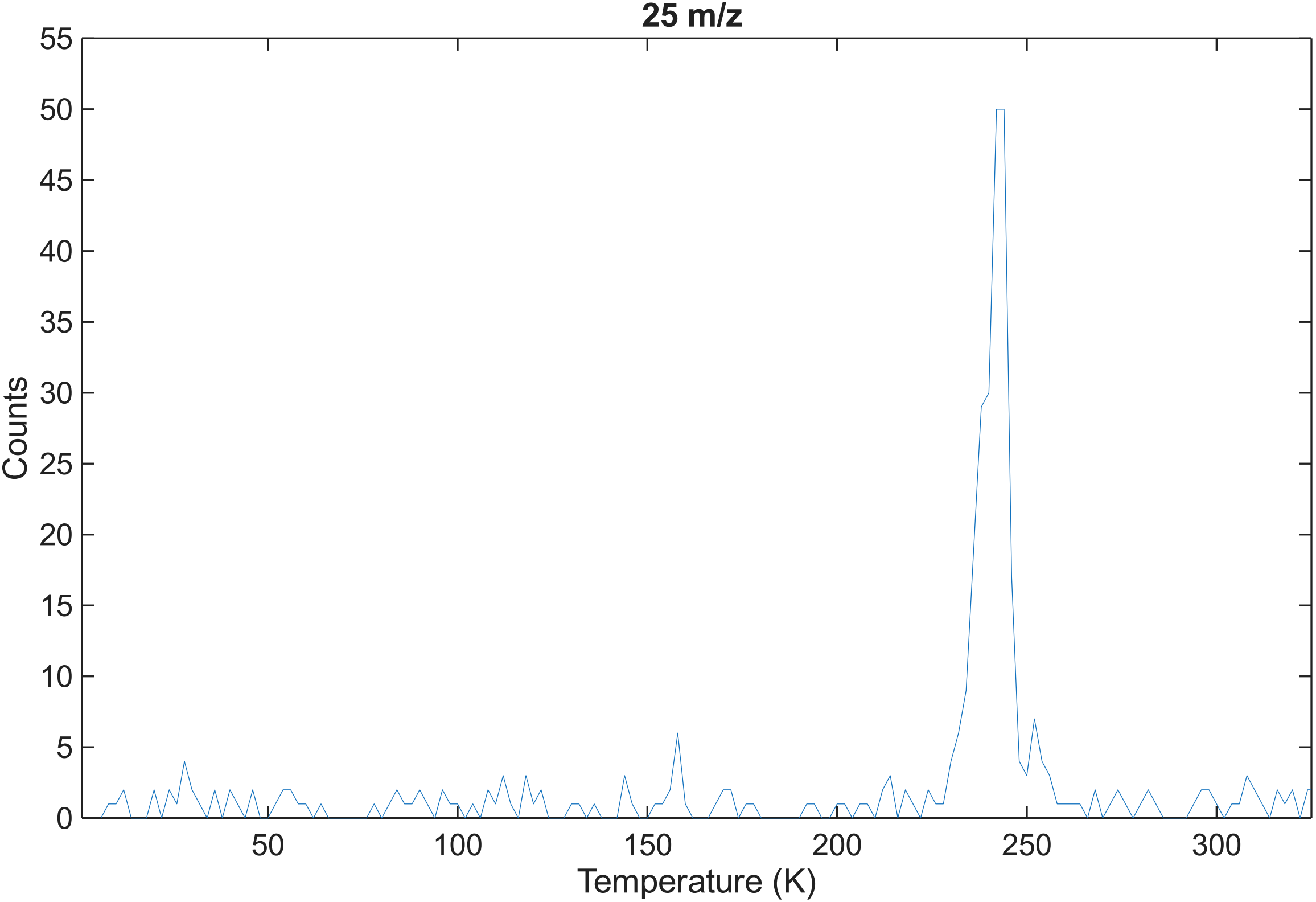

20 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
50
100
150
200
250
300


21 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
50
100
150
200
250
300


22 m/z
70
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)


23 m/z
70
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)


24 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
50
100
150
200
250
300


25 m/z
Counts
Temperature (K)
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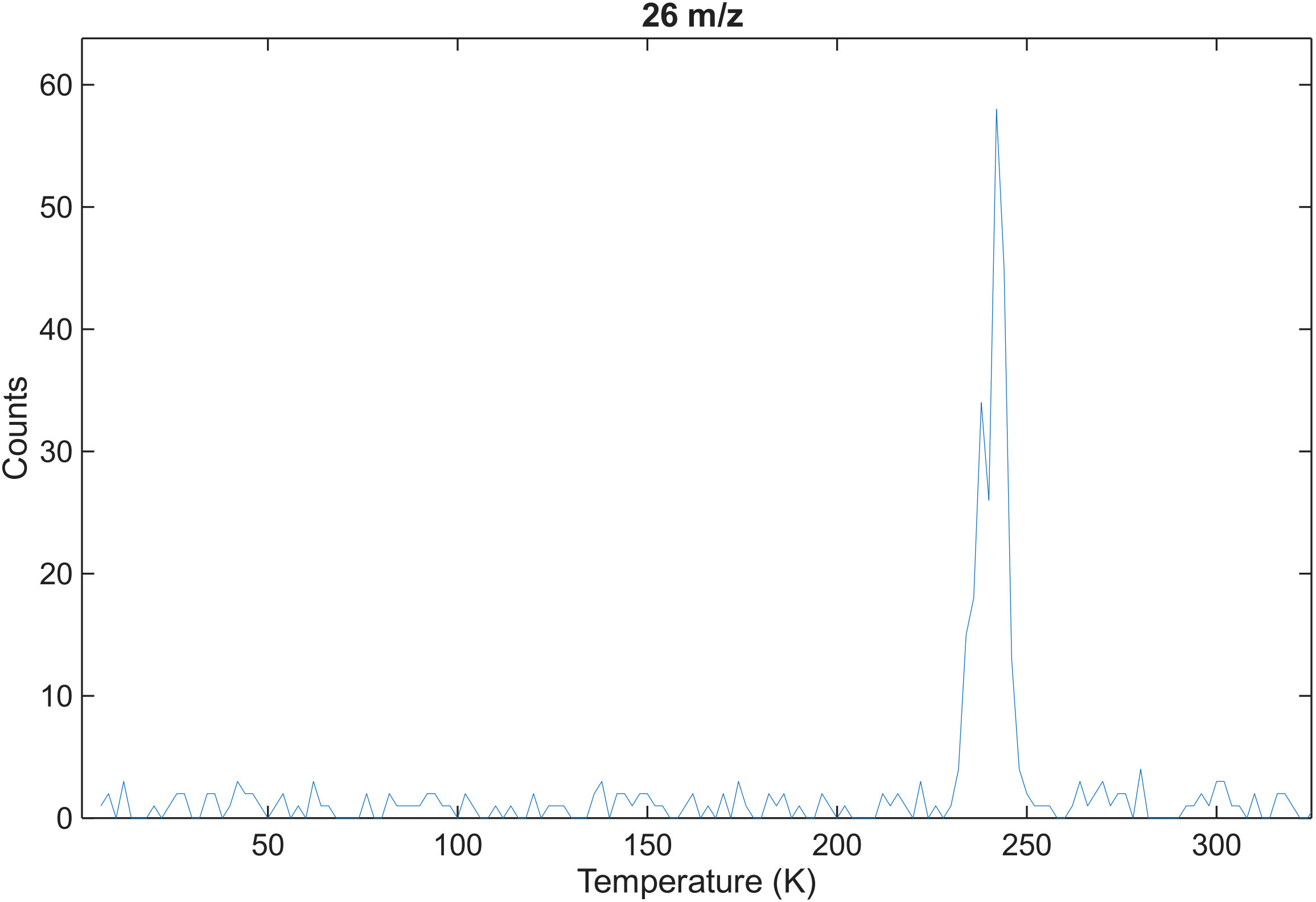
5
10
15
20
25
30
35
40
45
50
55
50
100
150
200
250
300


26 m/z
Counts
Temperature (K)
0
10
20
30
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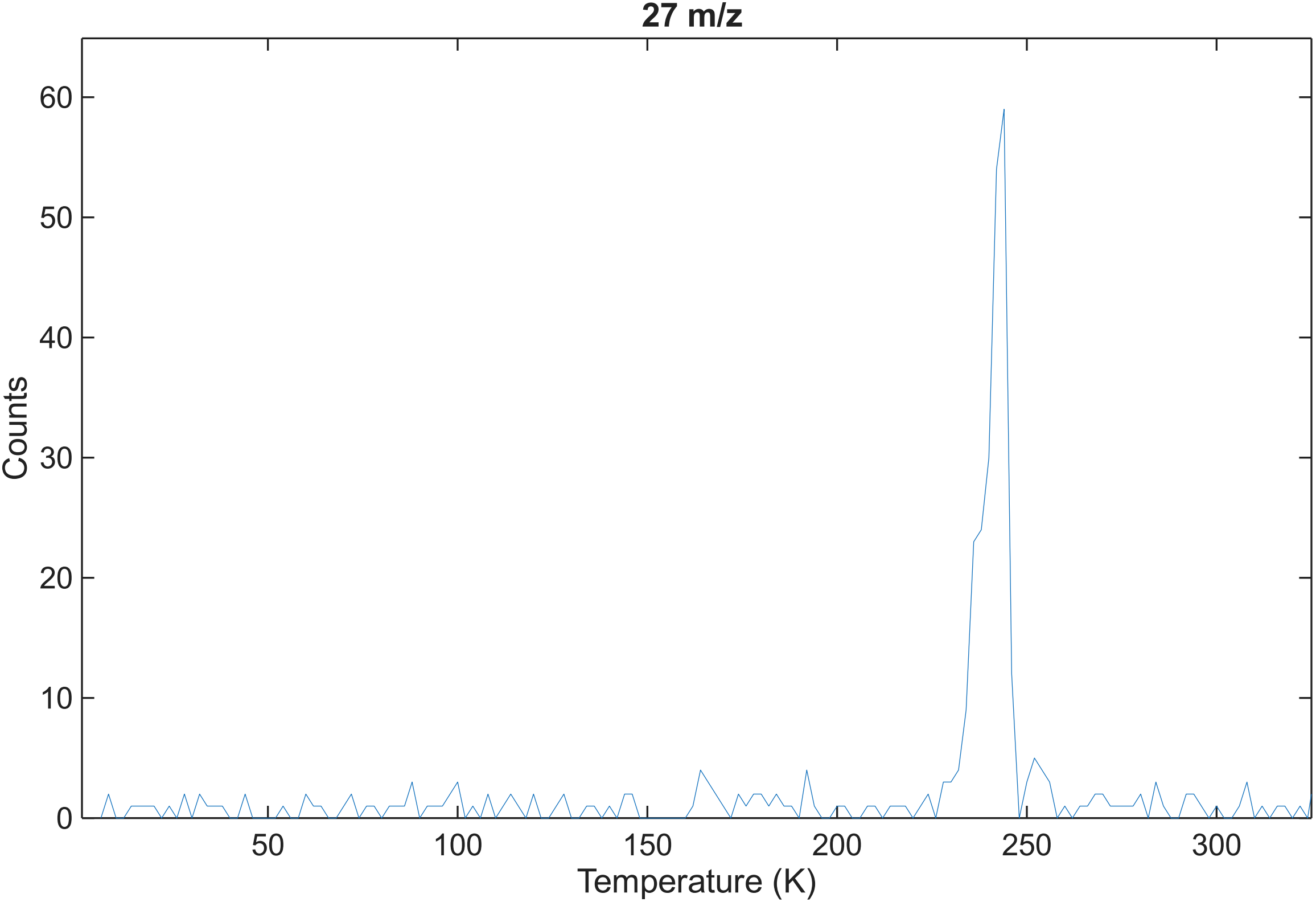
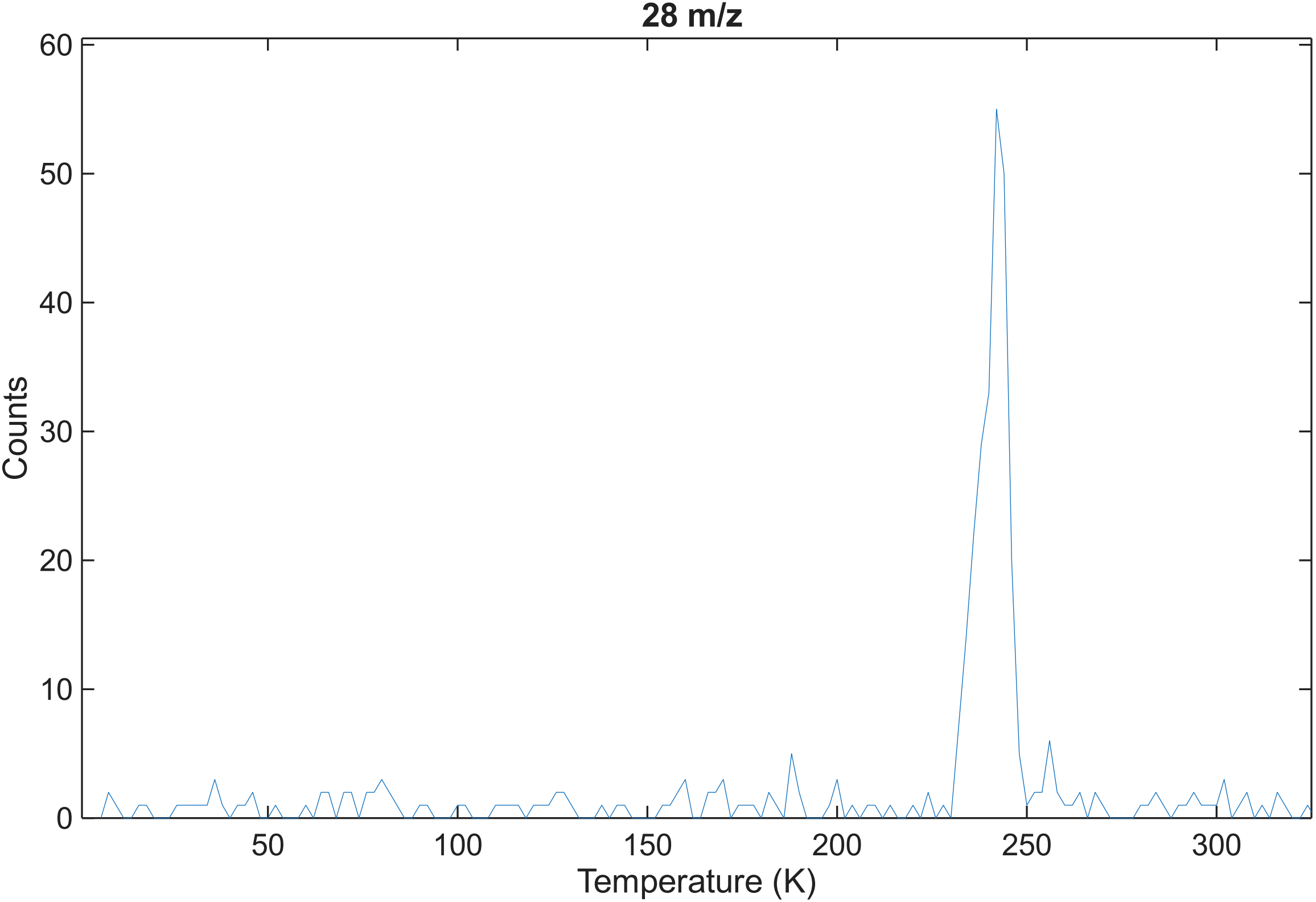
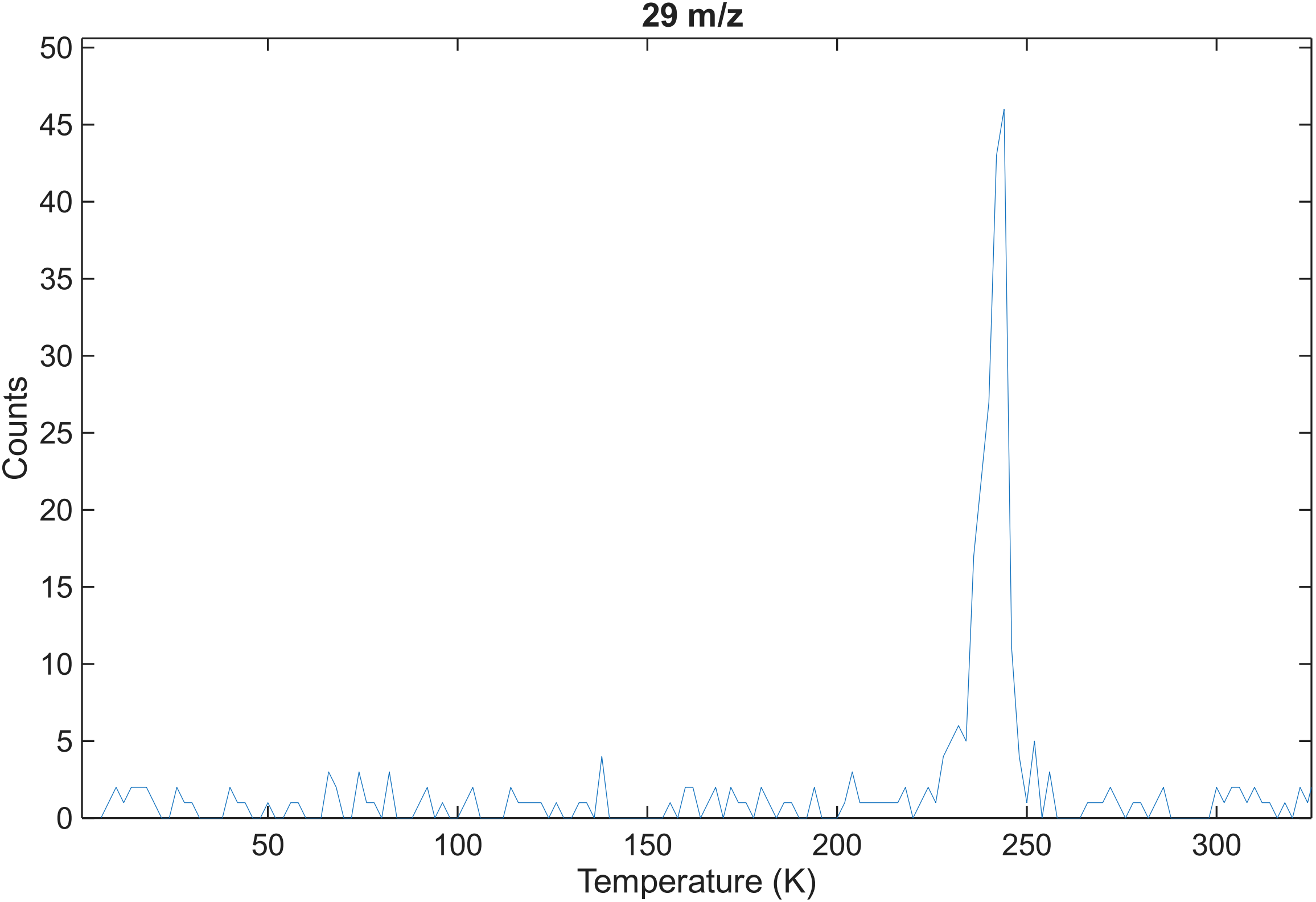
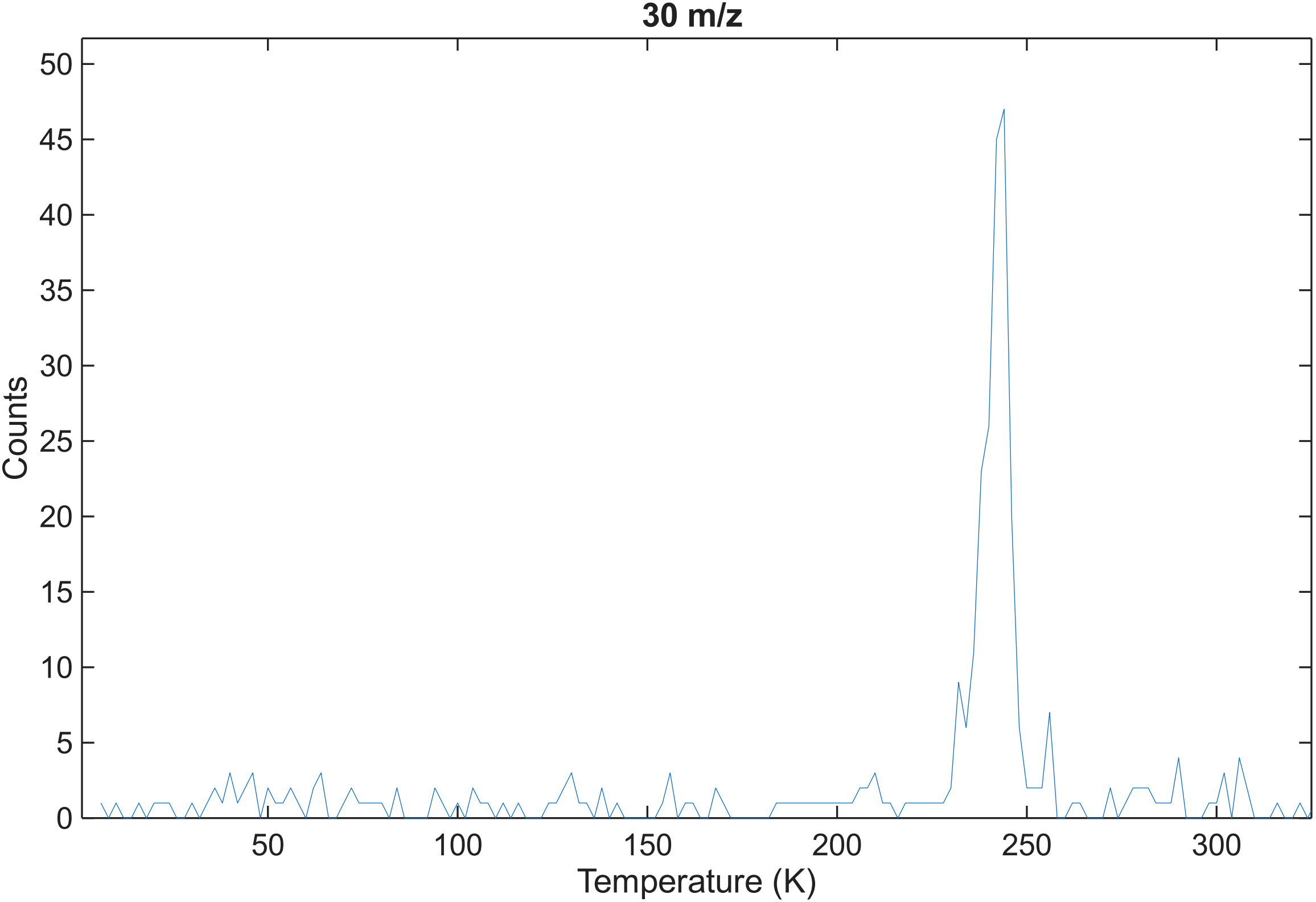
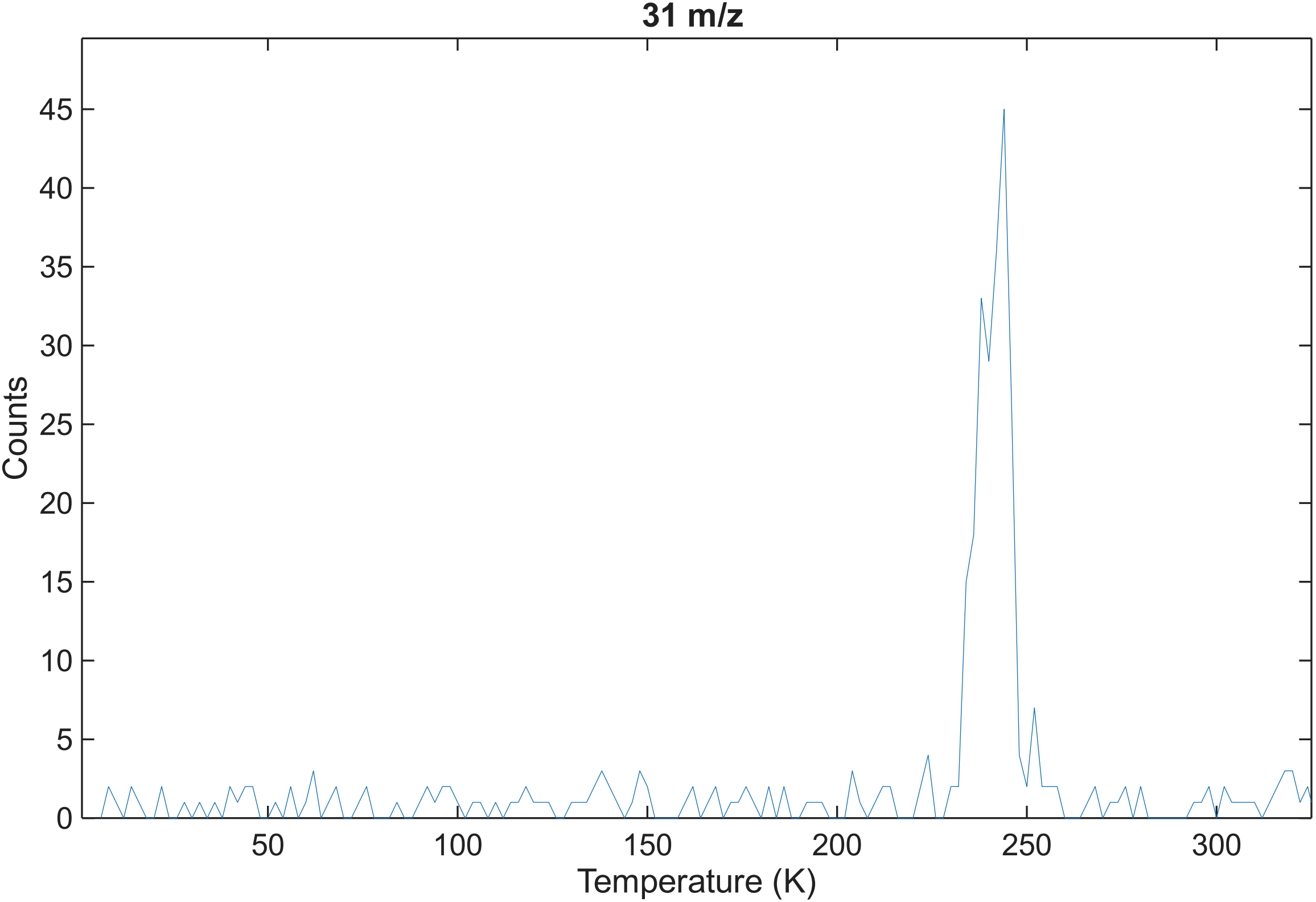
50
60
50
100
150
200
250
300

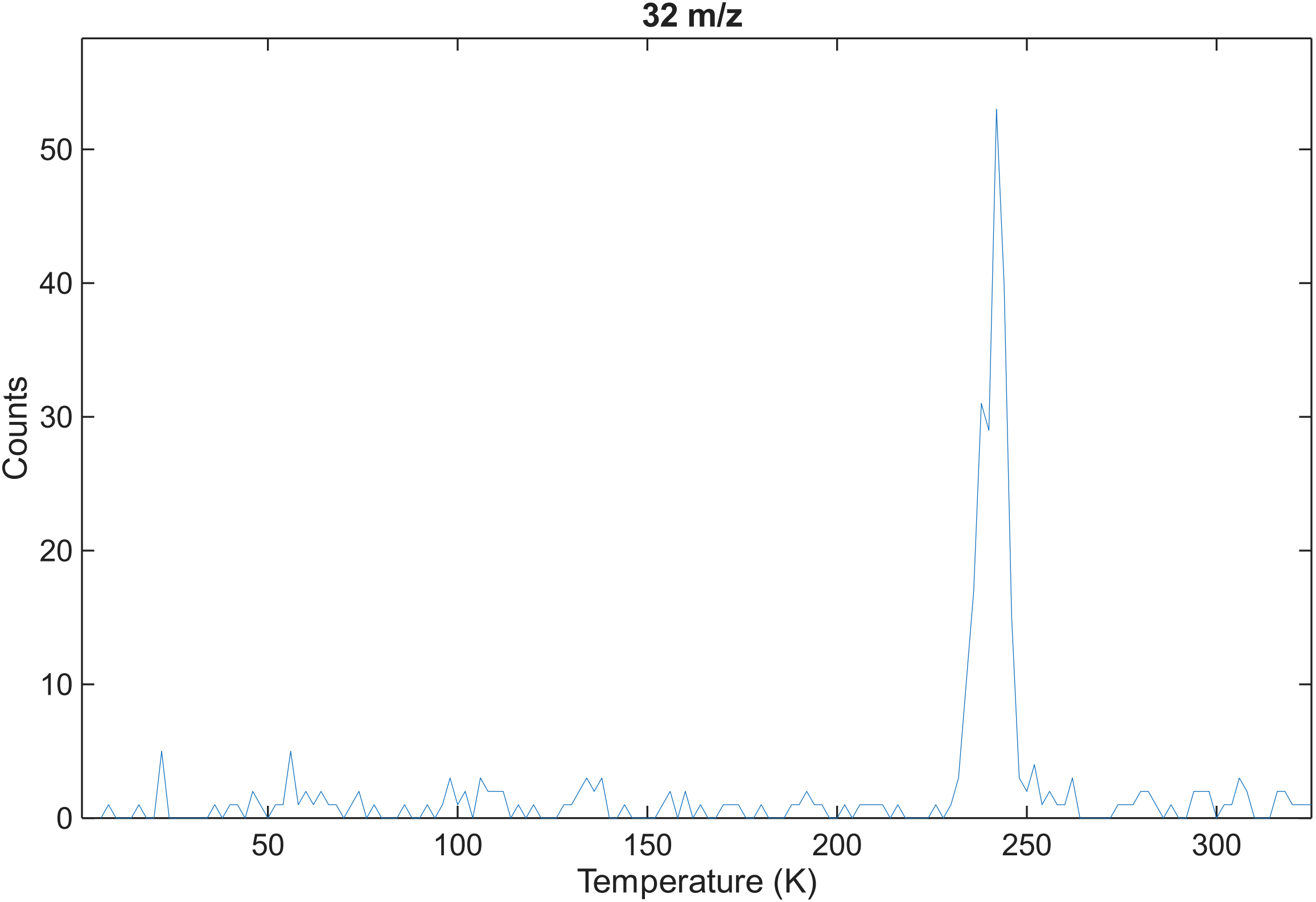

27 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
50
100
150
200
250
300

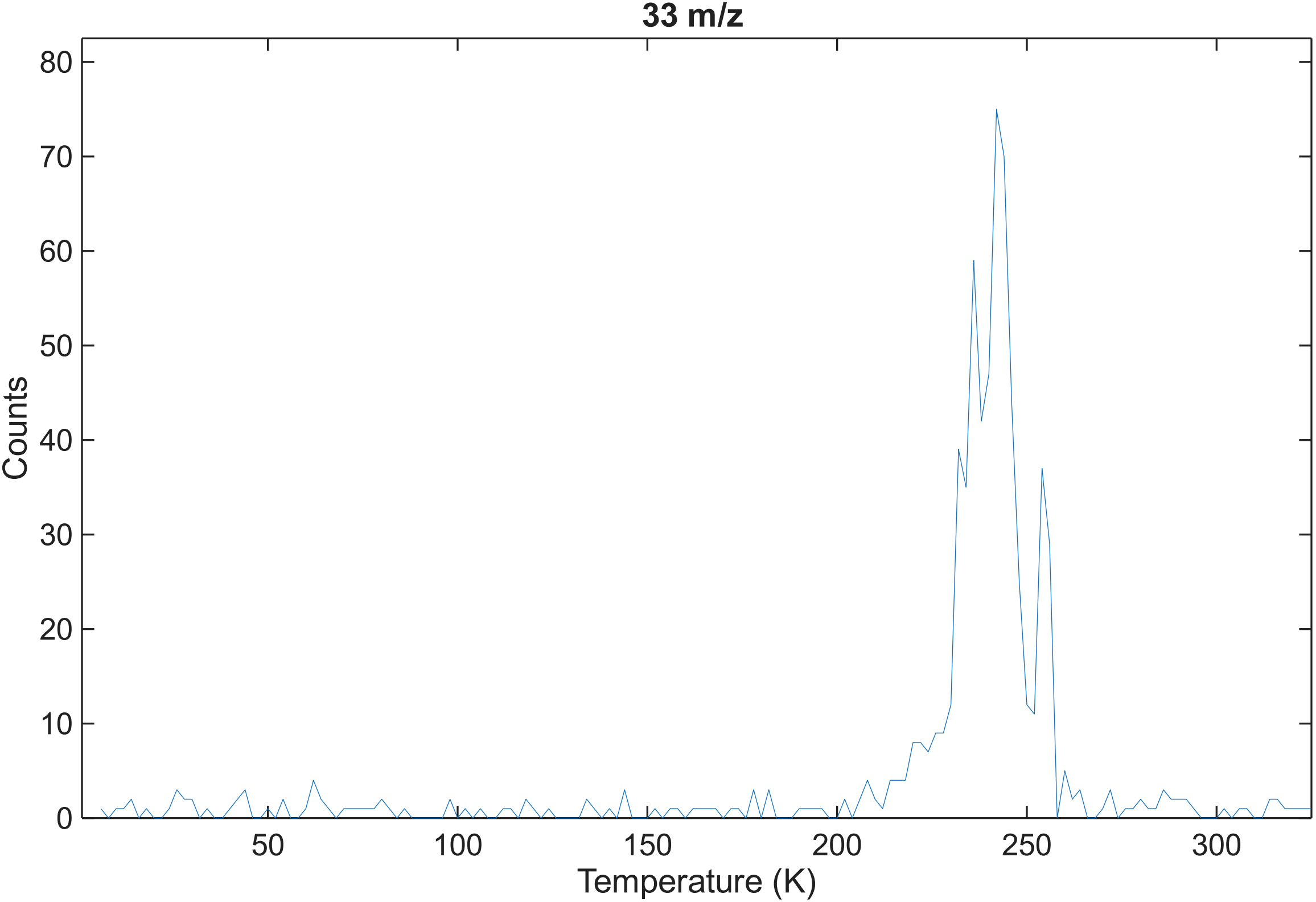

28 m/z
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)

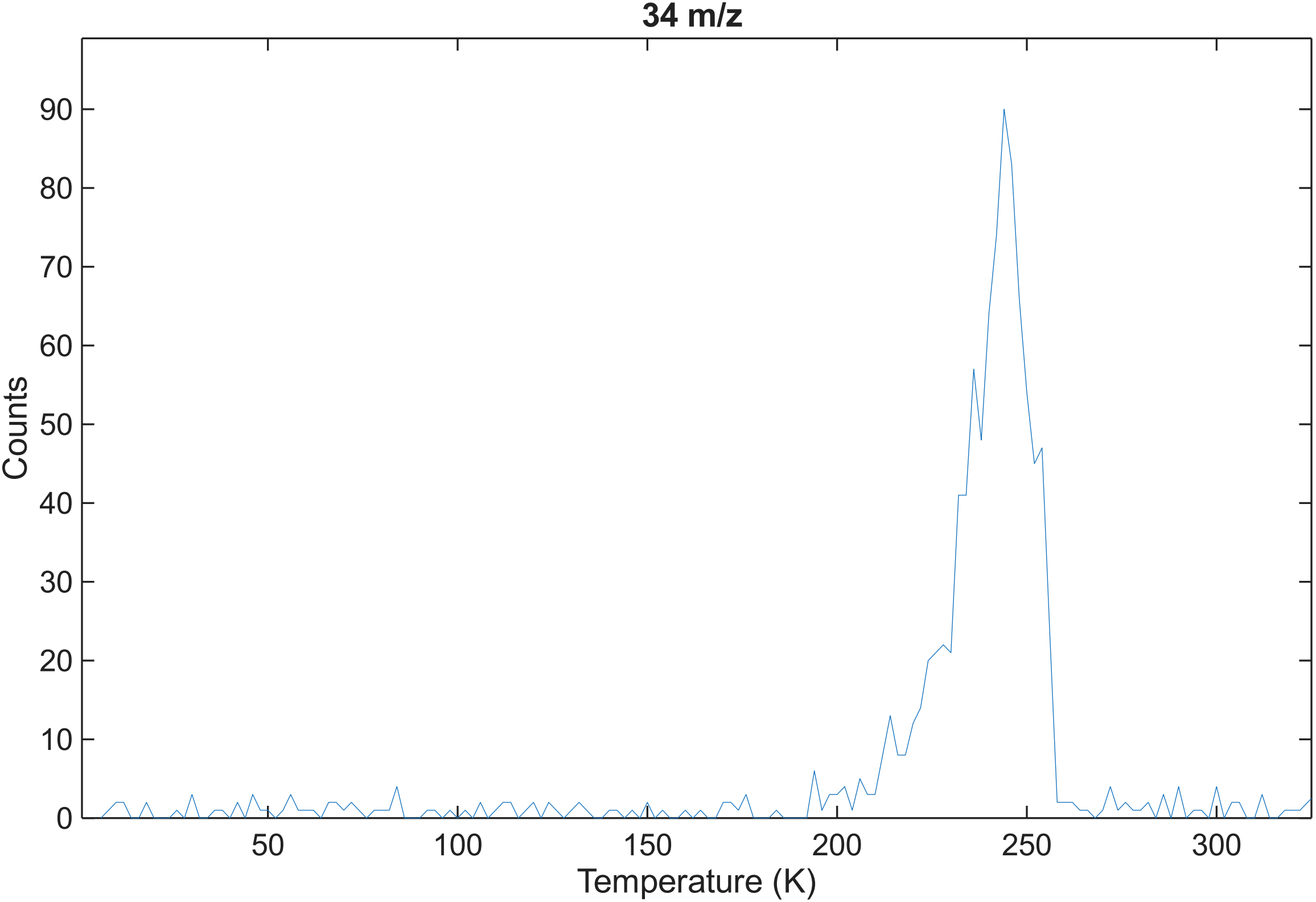

29 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300

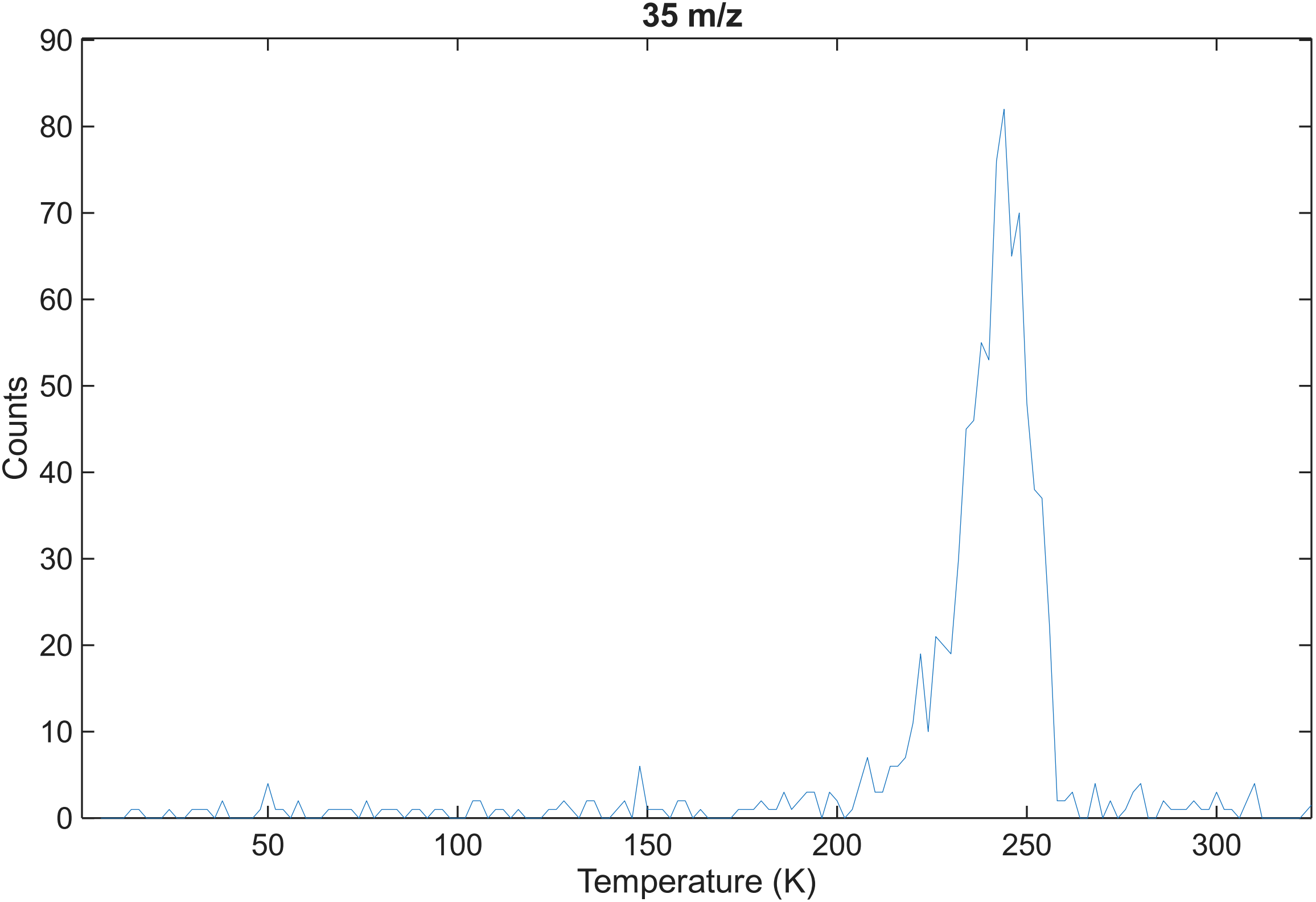

30 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300

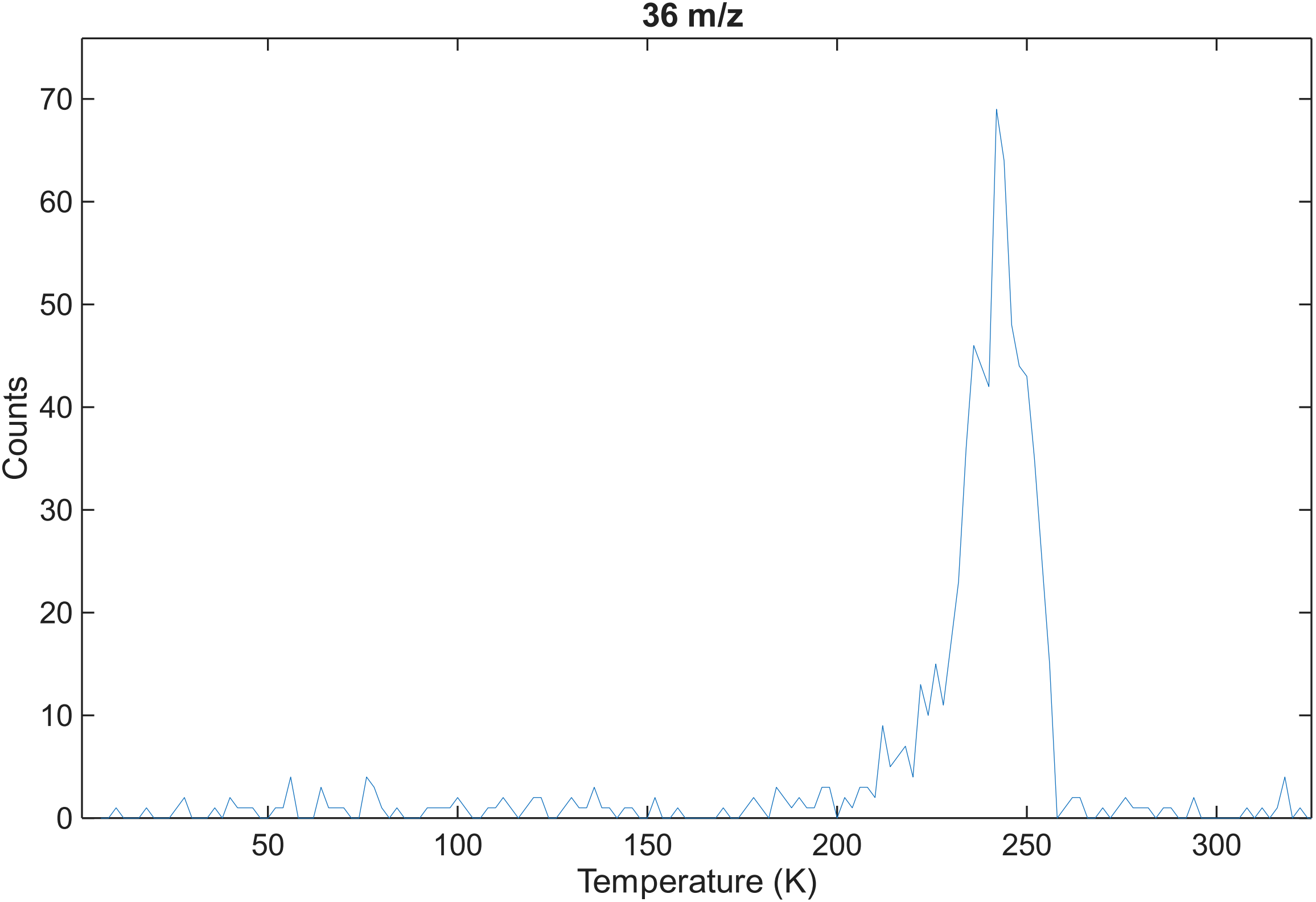

31 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

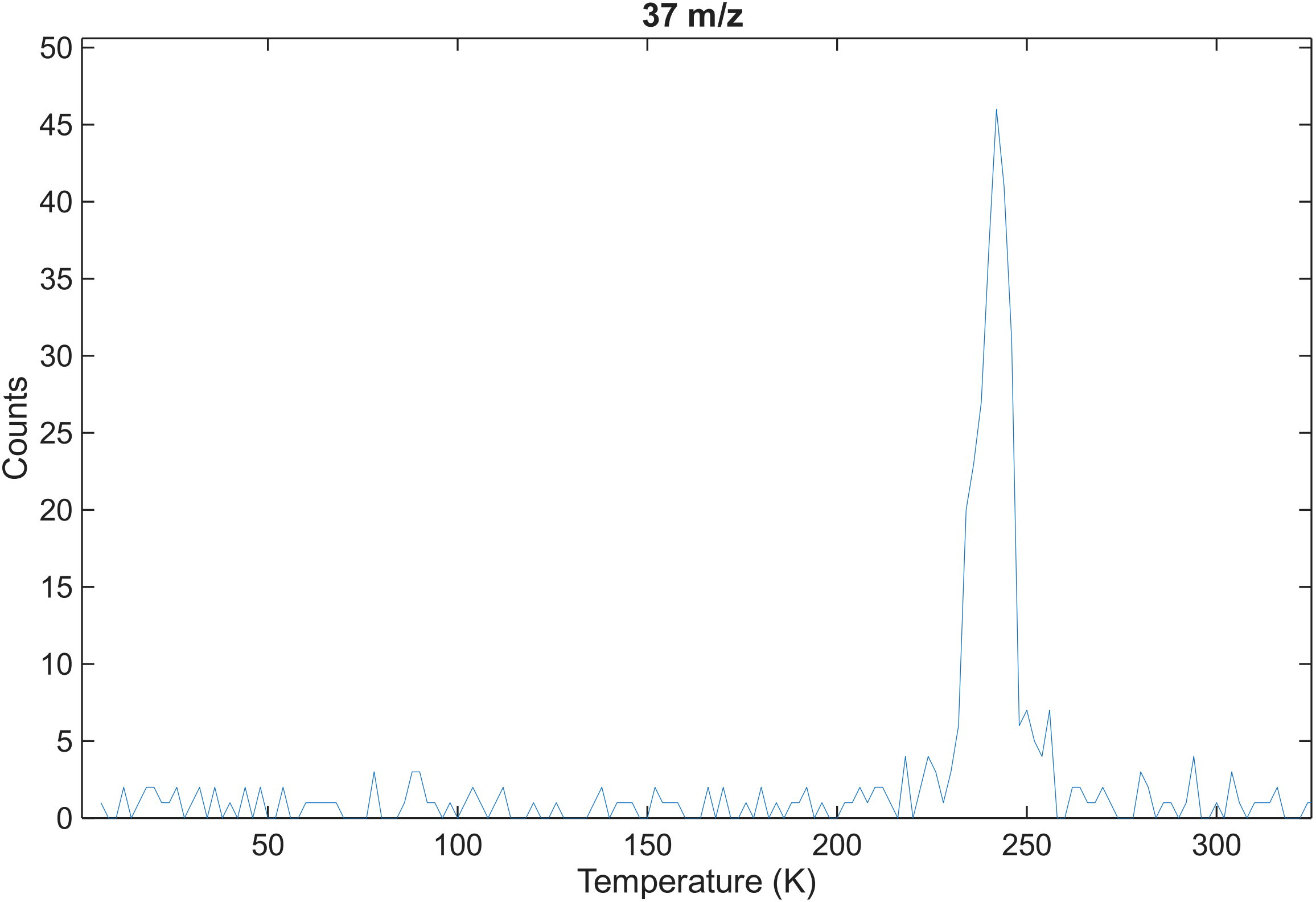

32 m/z
Counts
Temperature (K)
0
10
20
30
40
50
50
100
150
200
250
300

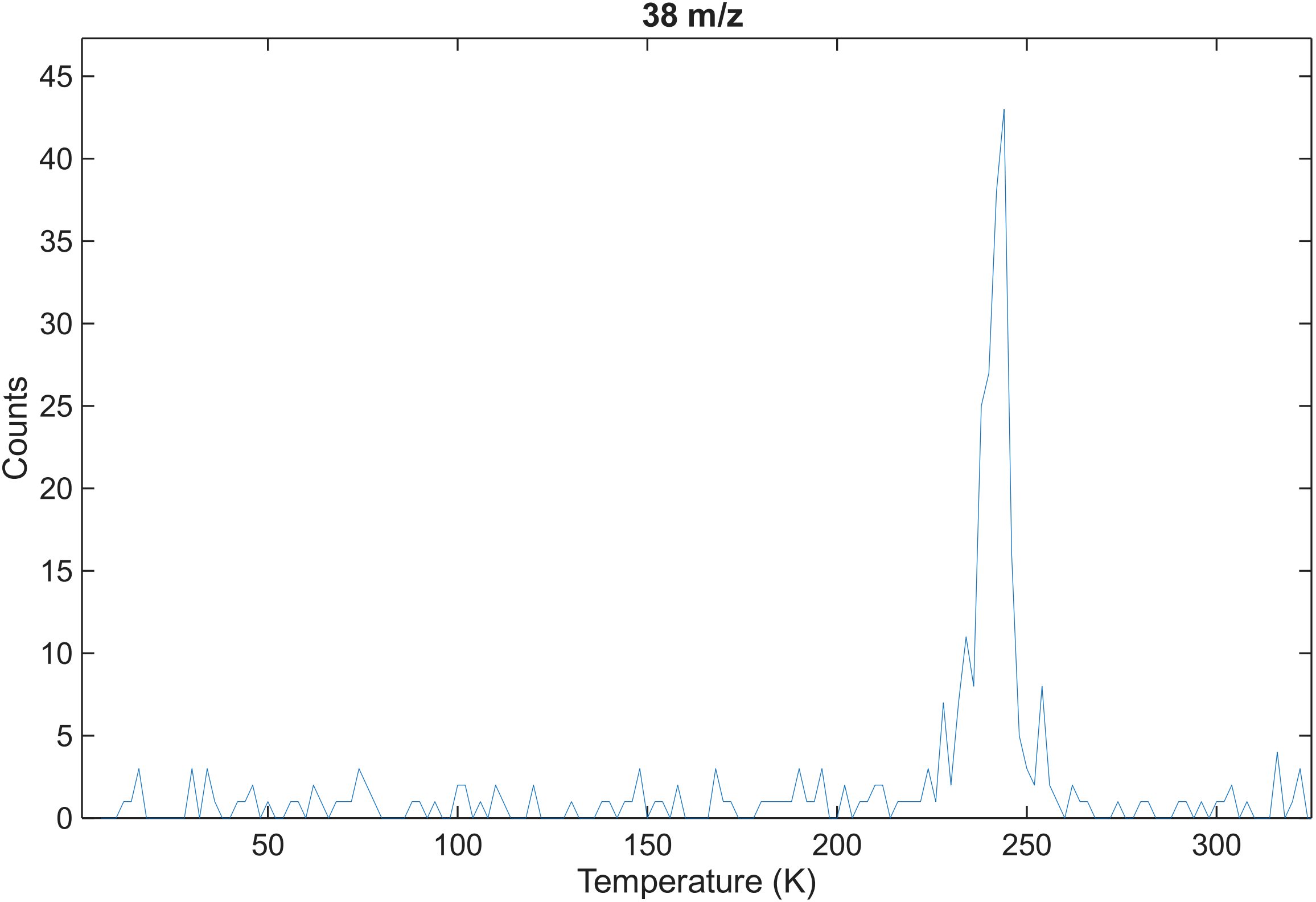

33 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
50
100
150
200
250
300

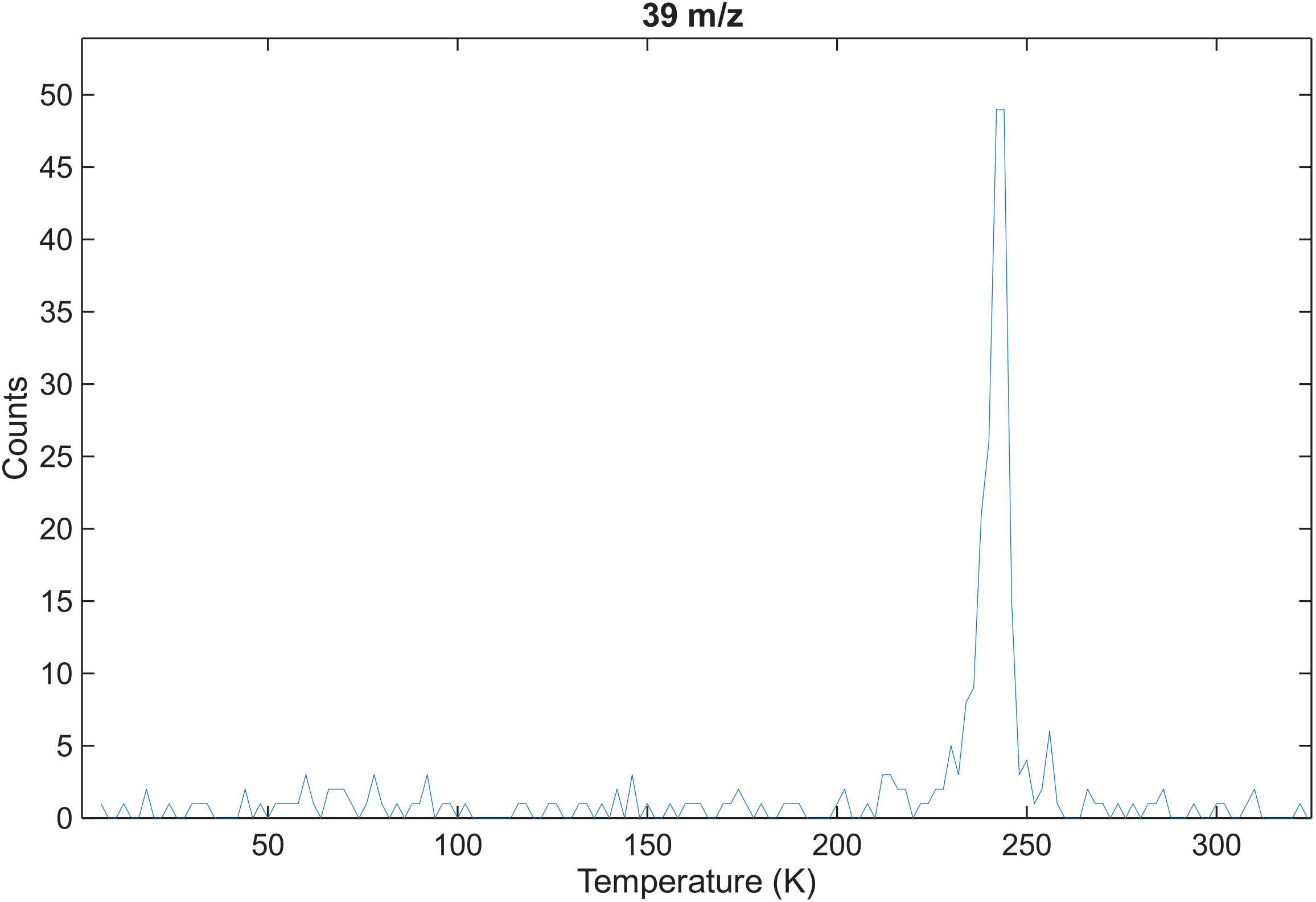

34 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
50
100
150
200
250
300

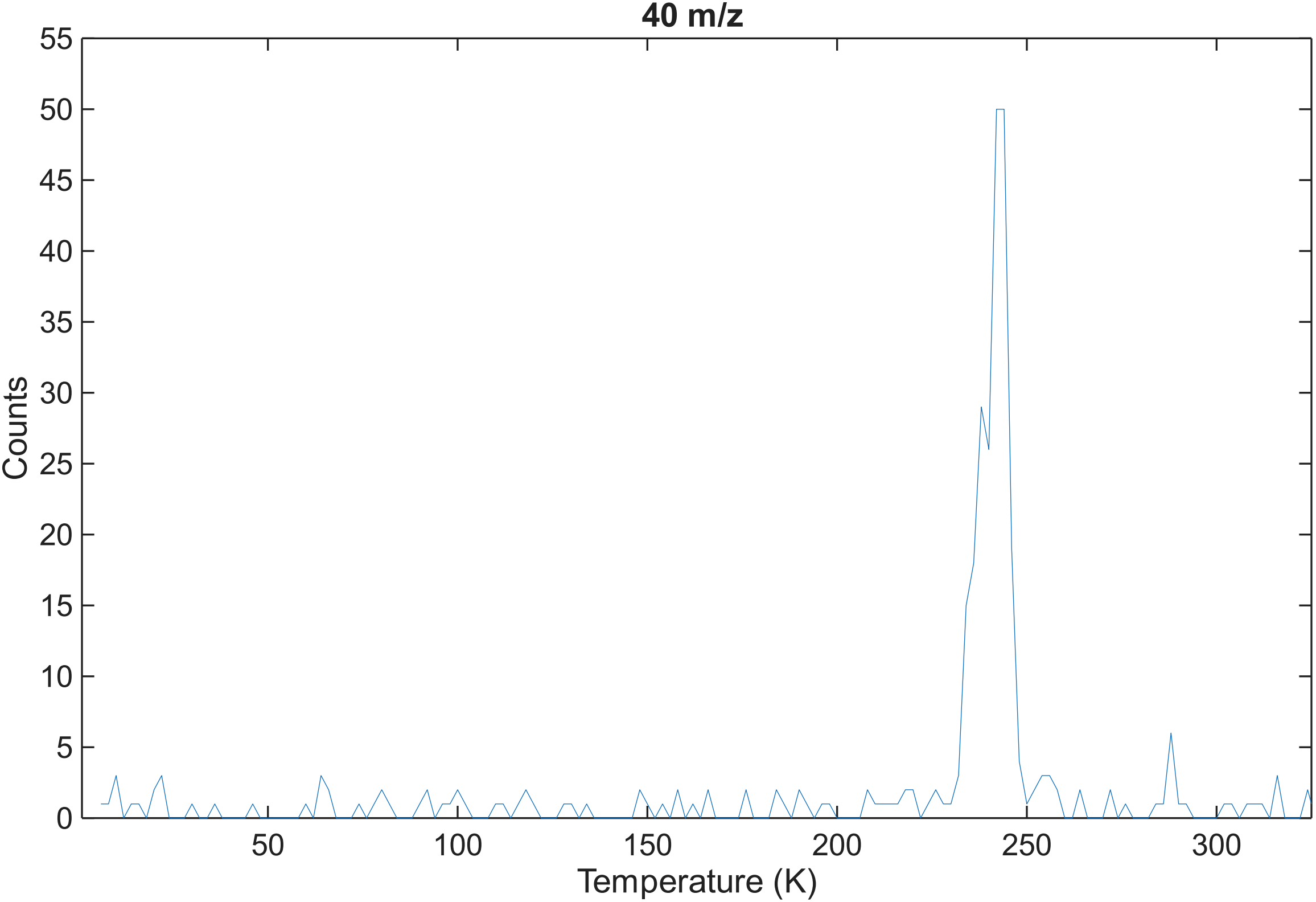

35 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
50
100
150
200
250
300


36 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
50
100
150
200
250
300


37 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300


38 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300


39 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300


40 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
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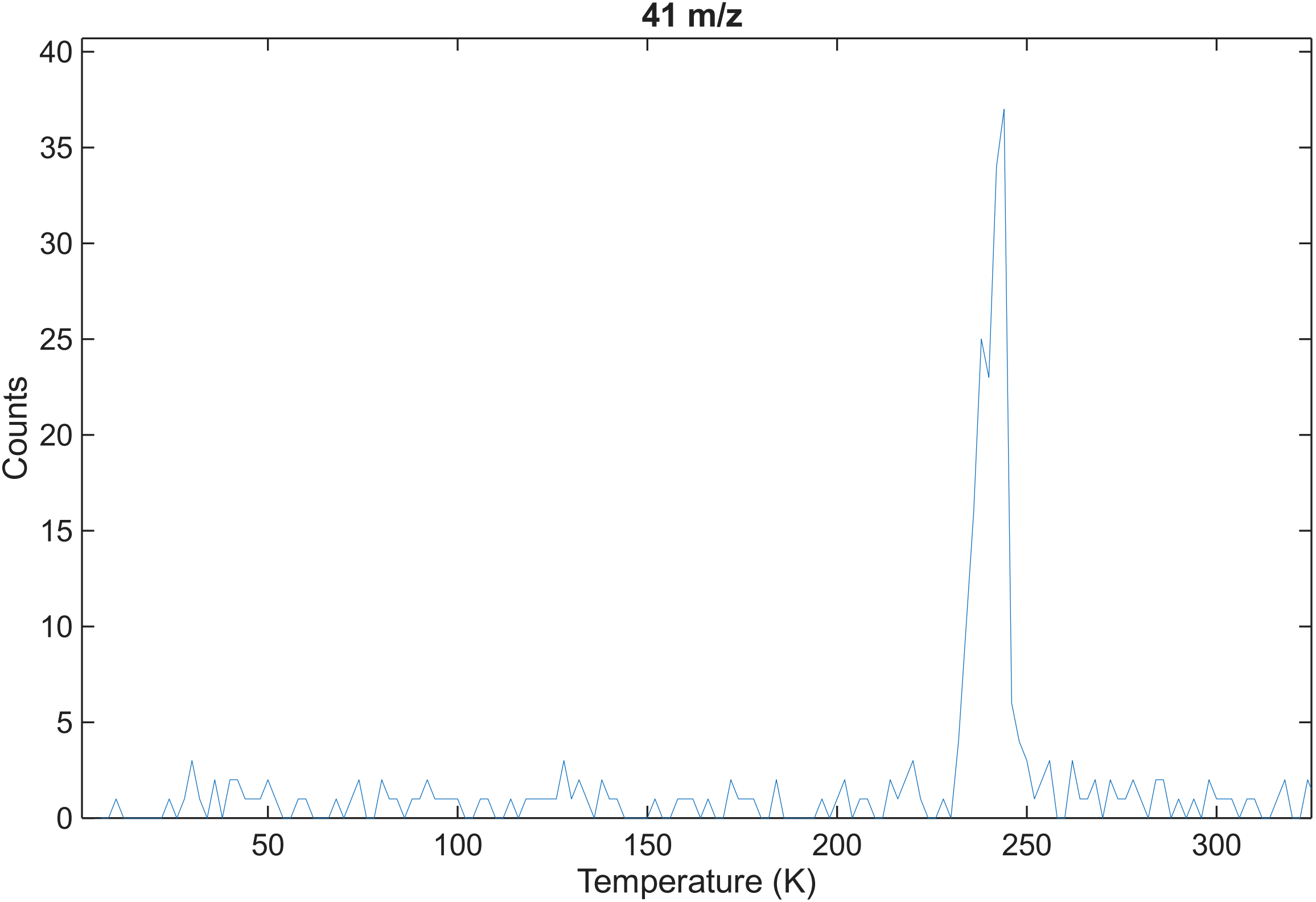
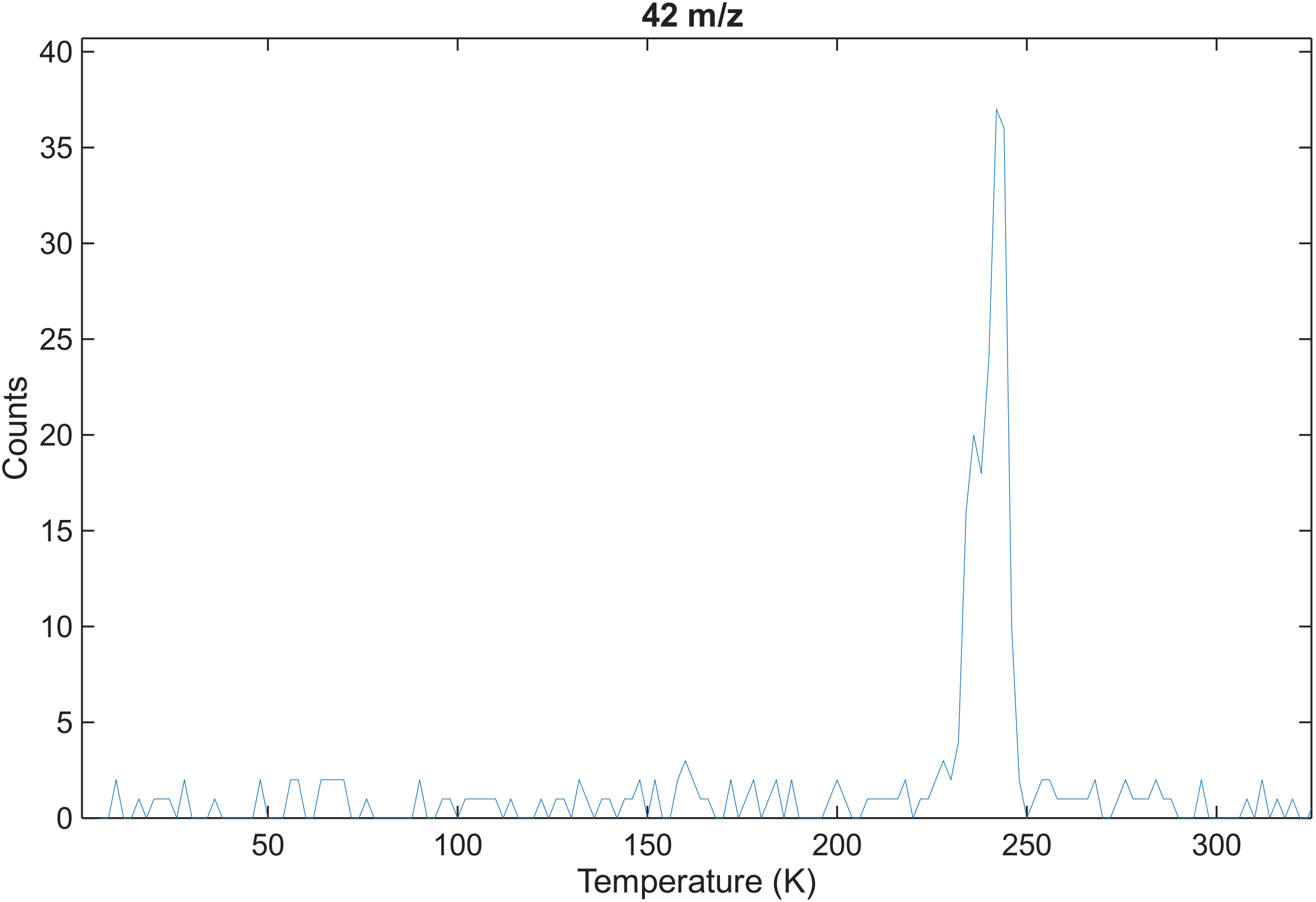
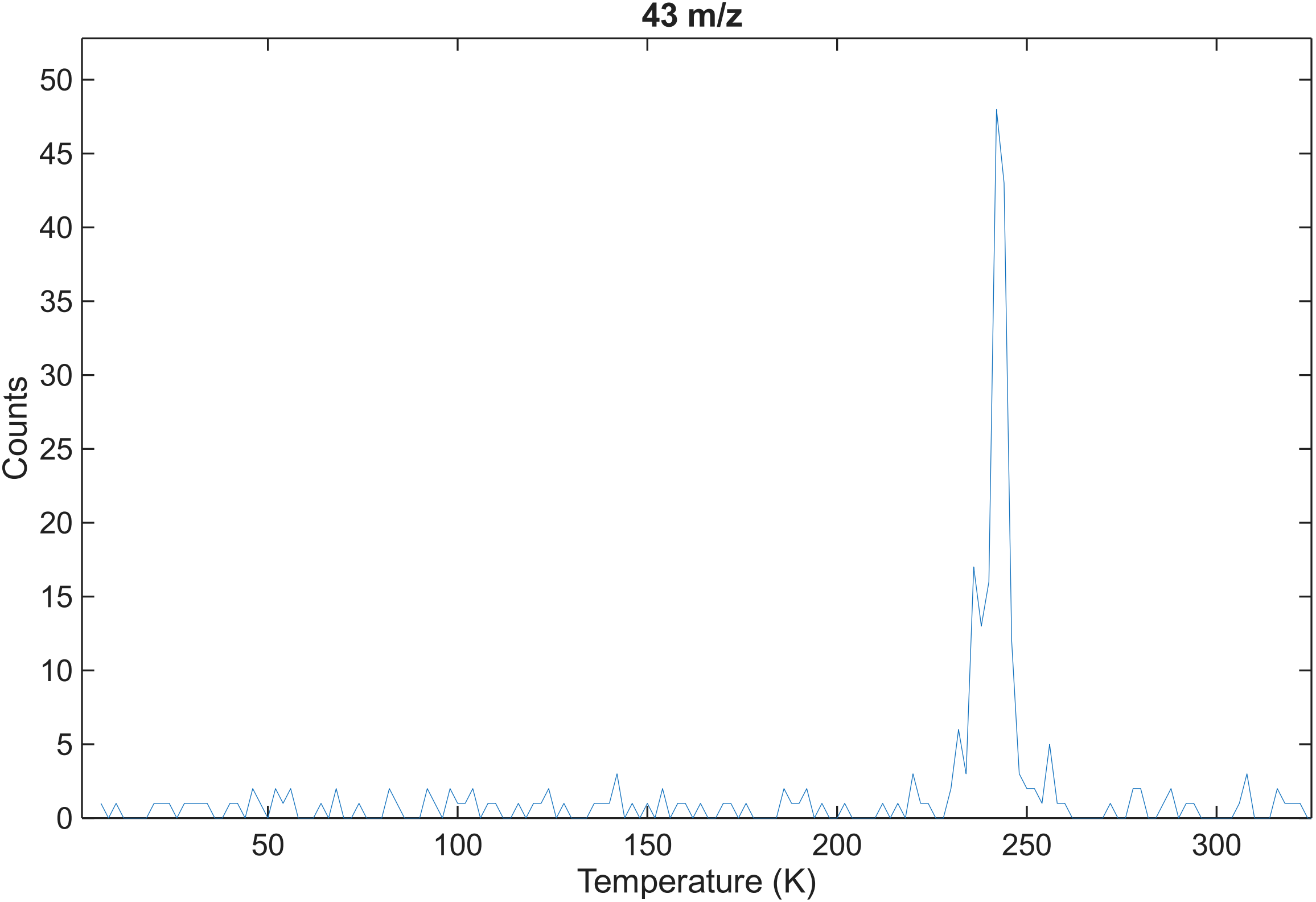
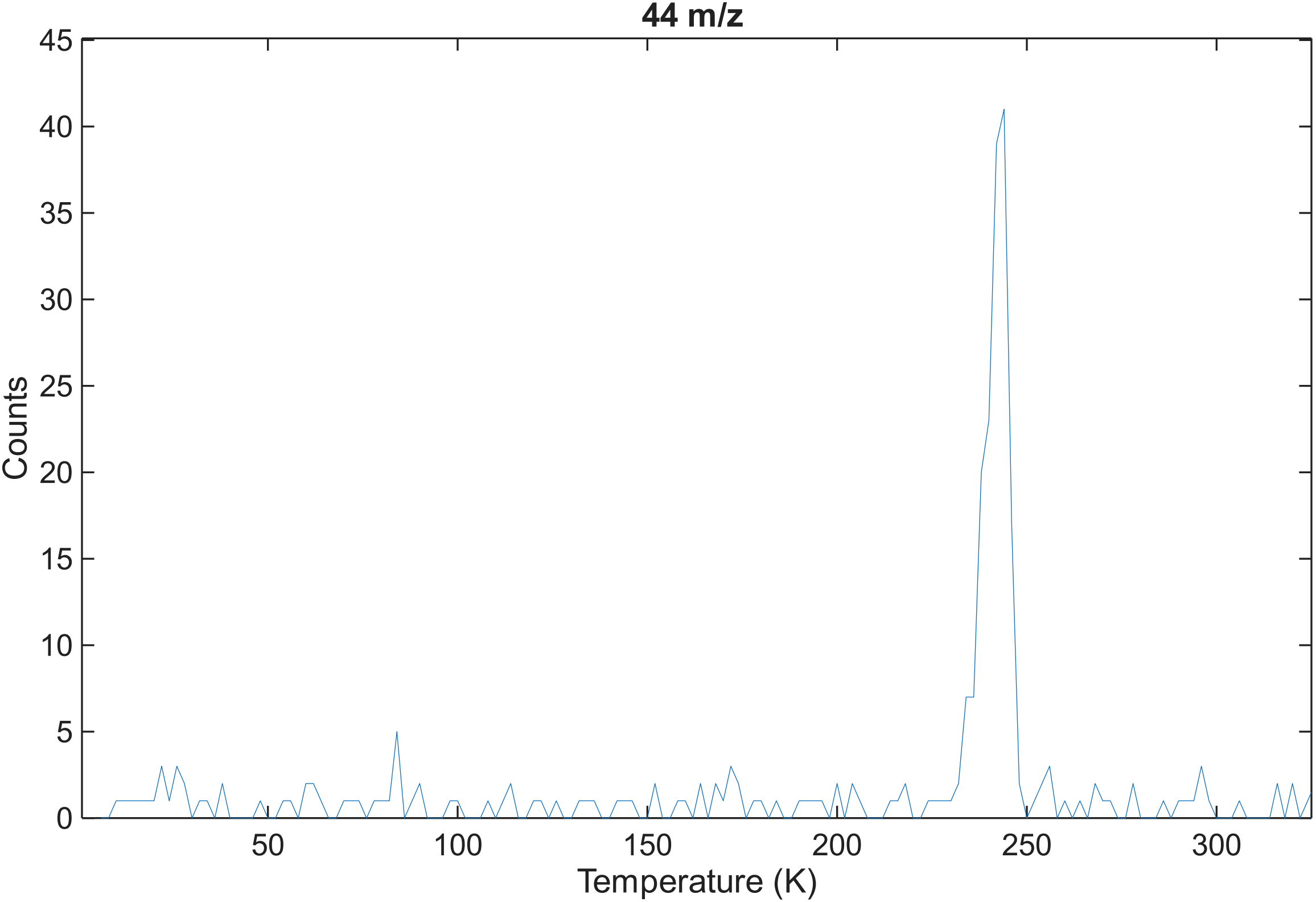
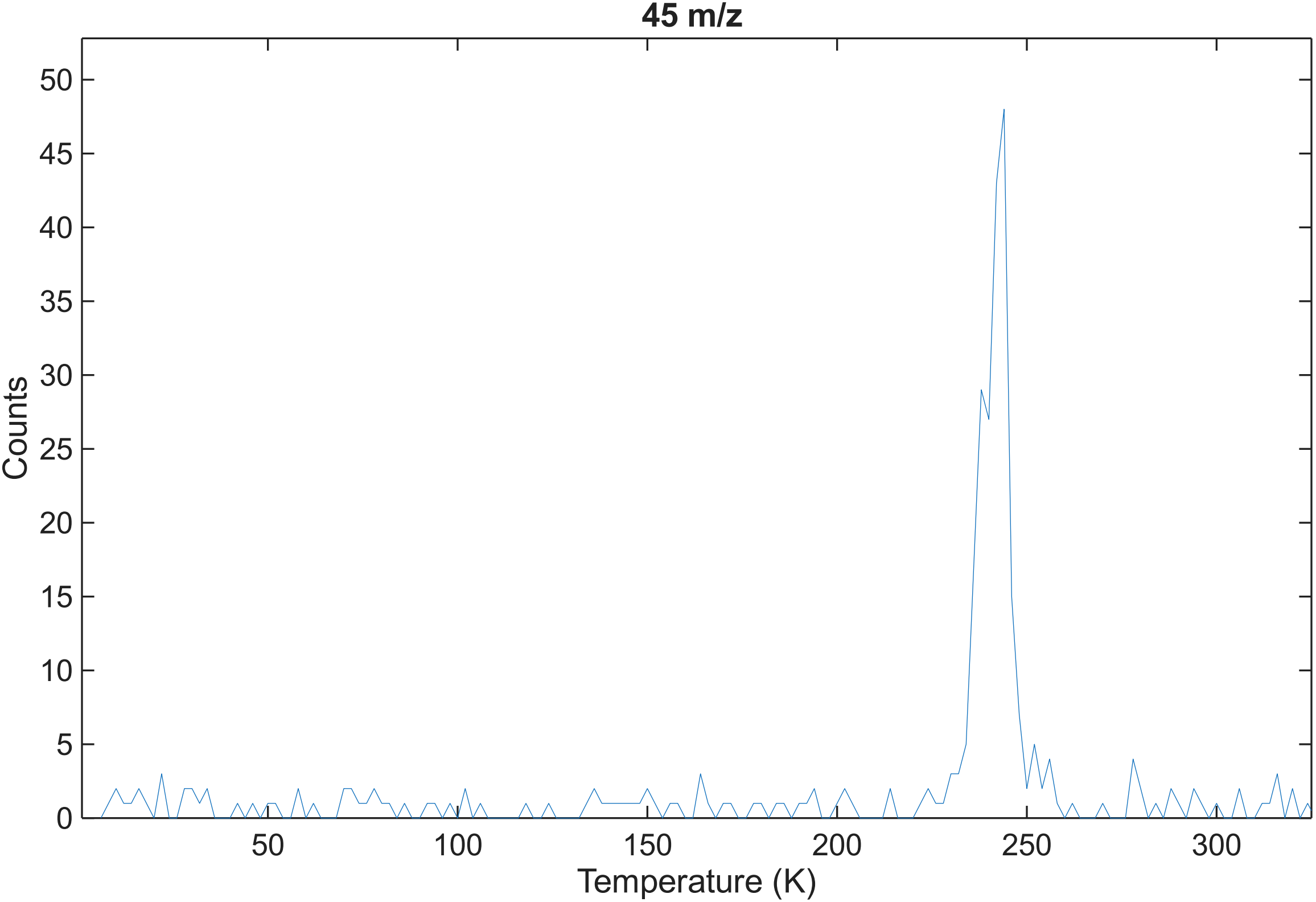
45
50
55
50
100
150
200
250
300

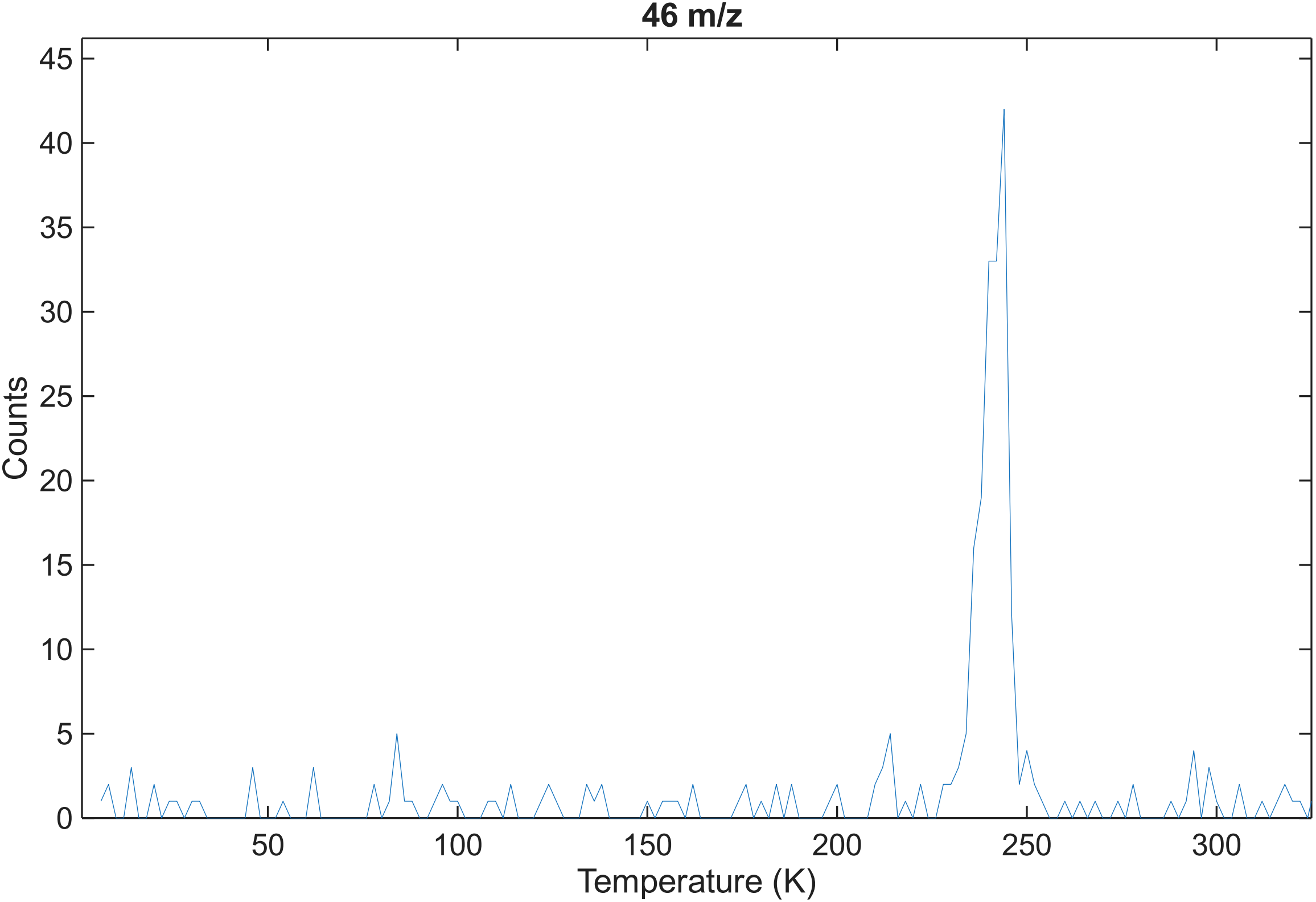

41 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

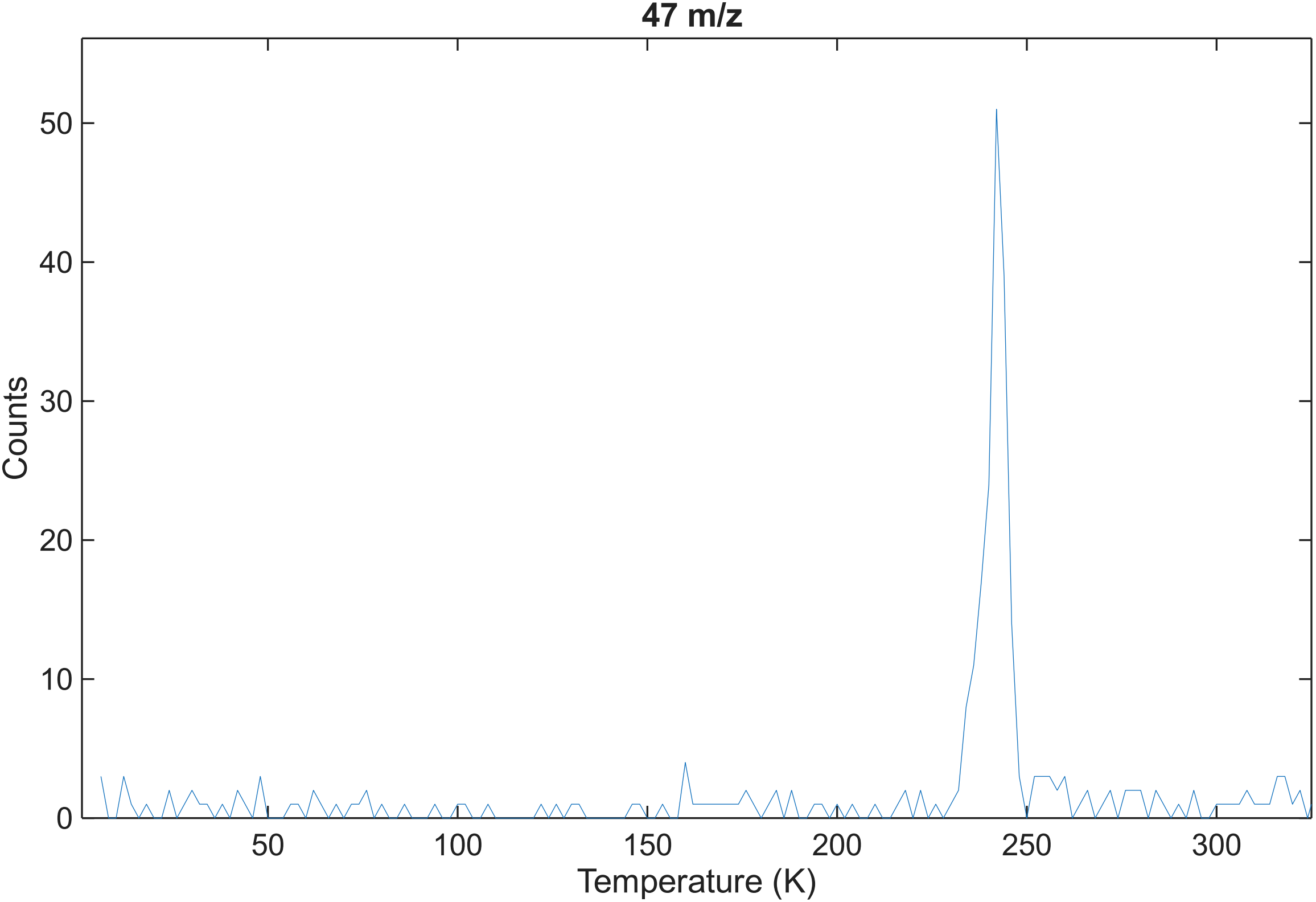

42 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

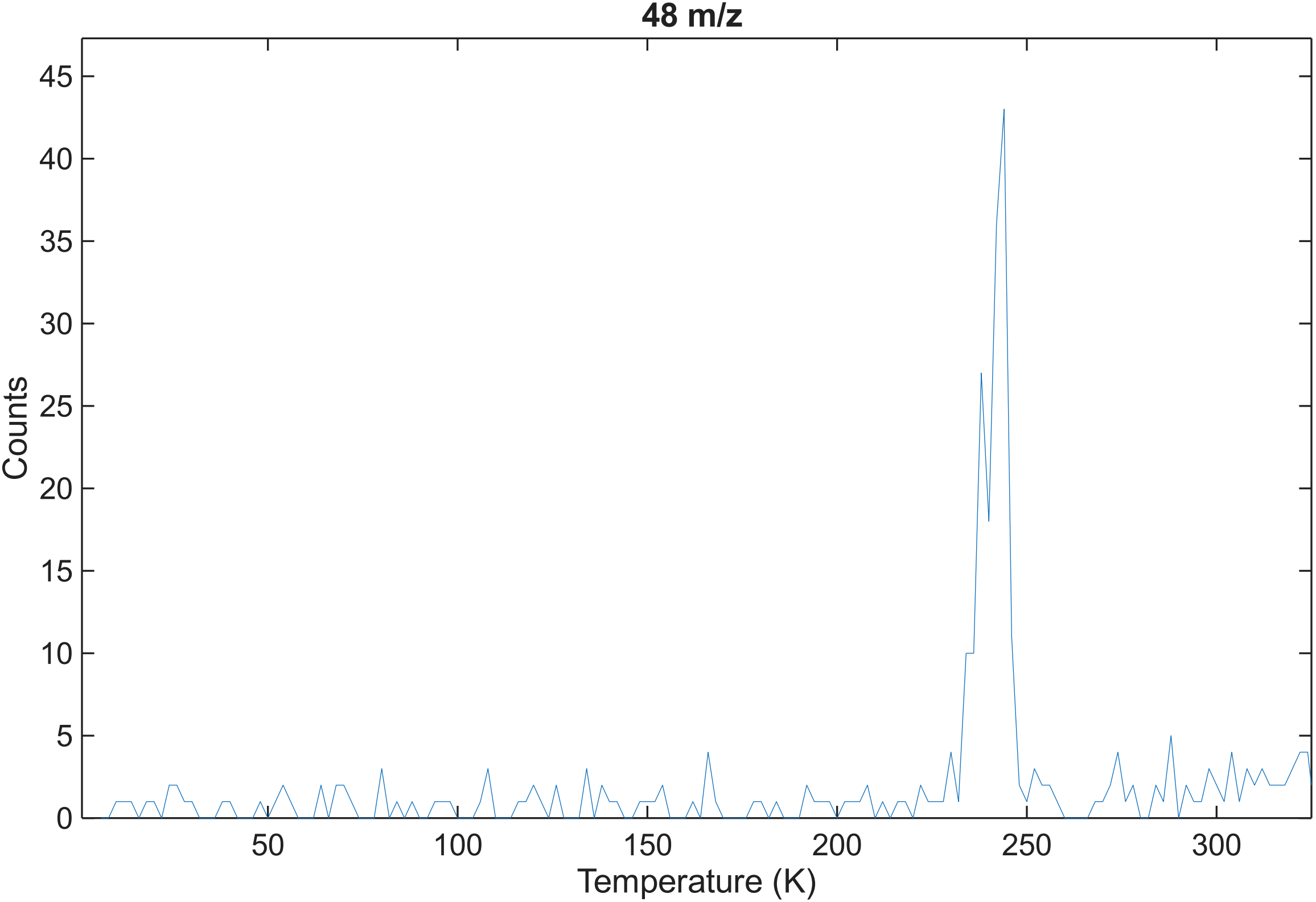

43 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300

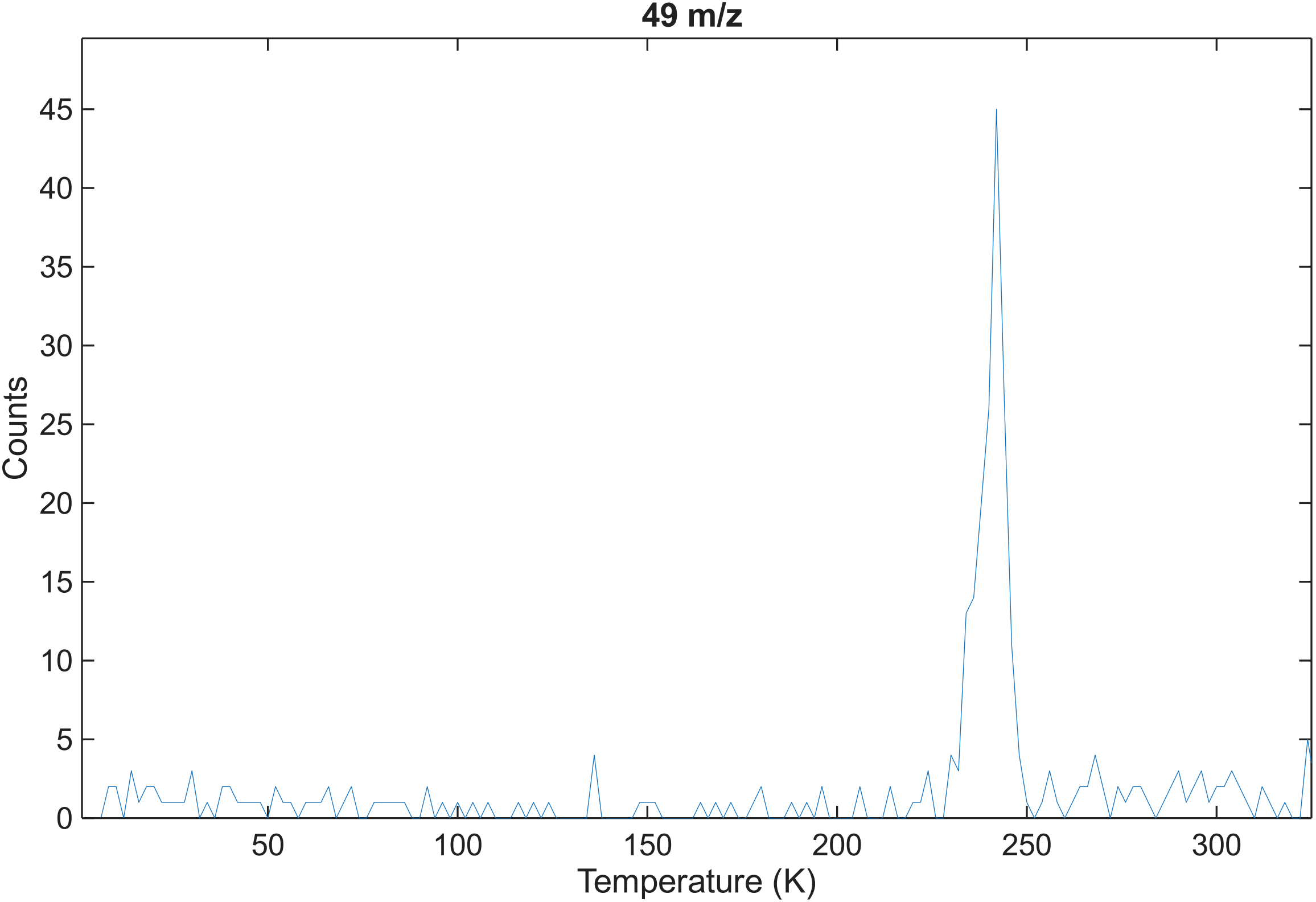

44 m/z
45
40
35
30
25
20
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)

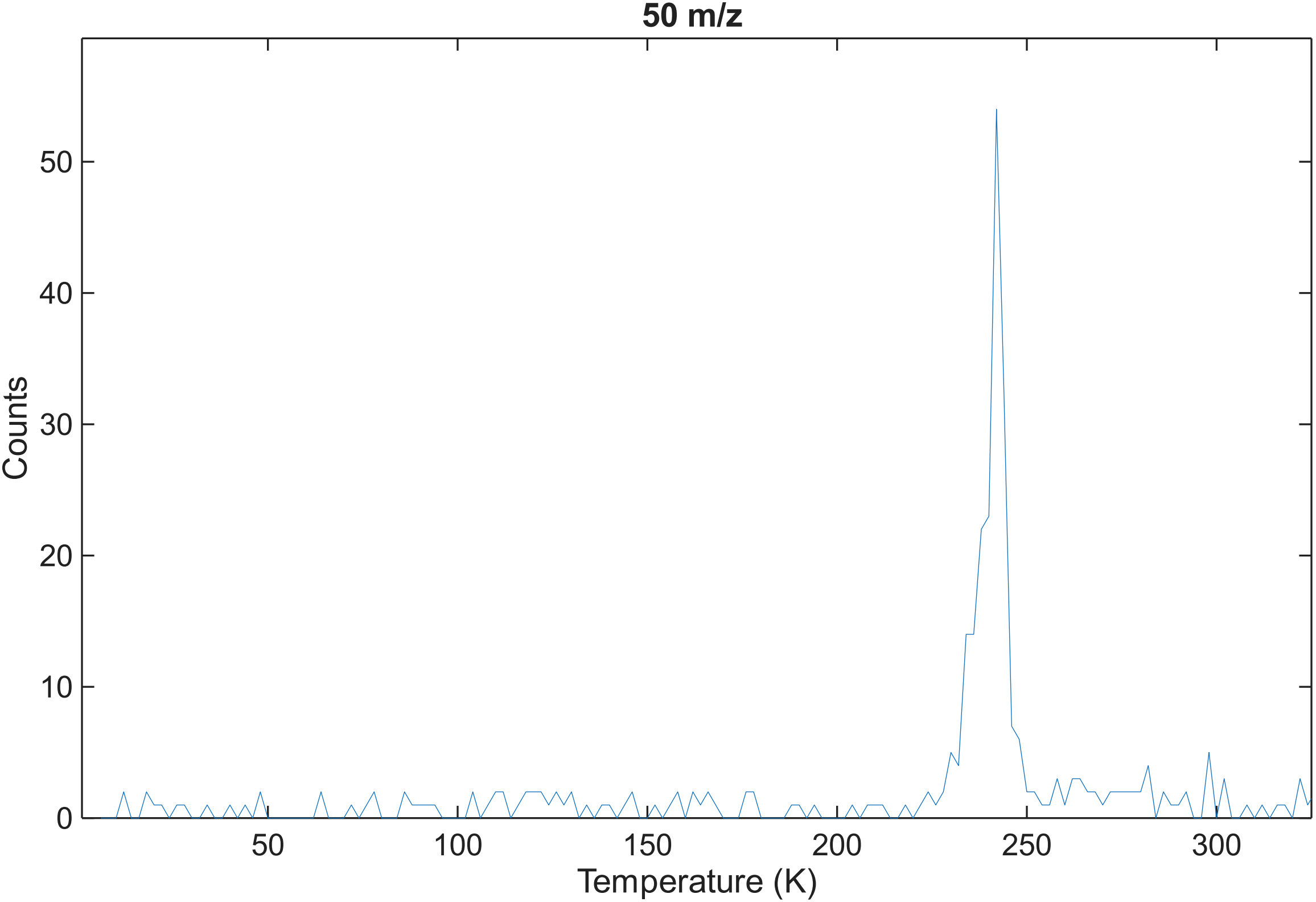

45 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300

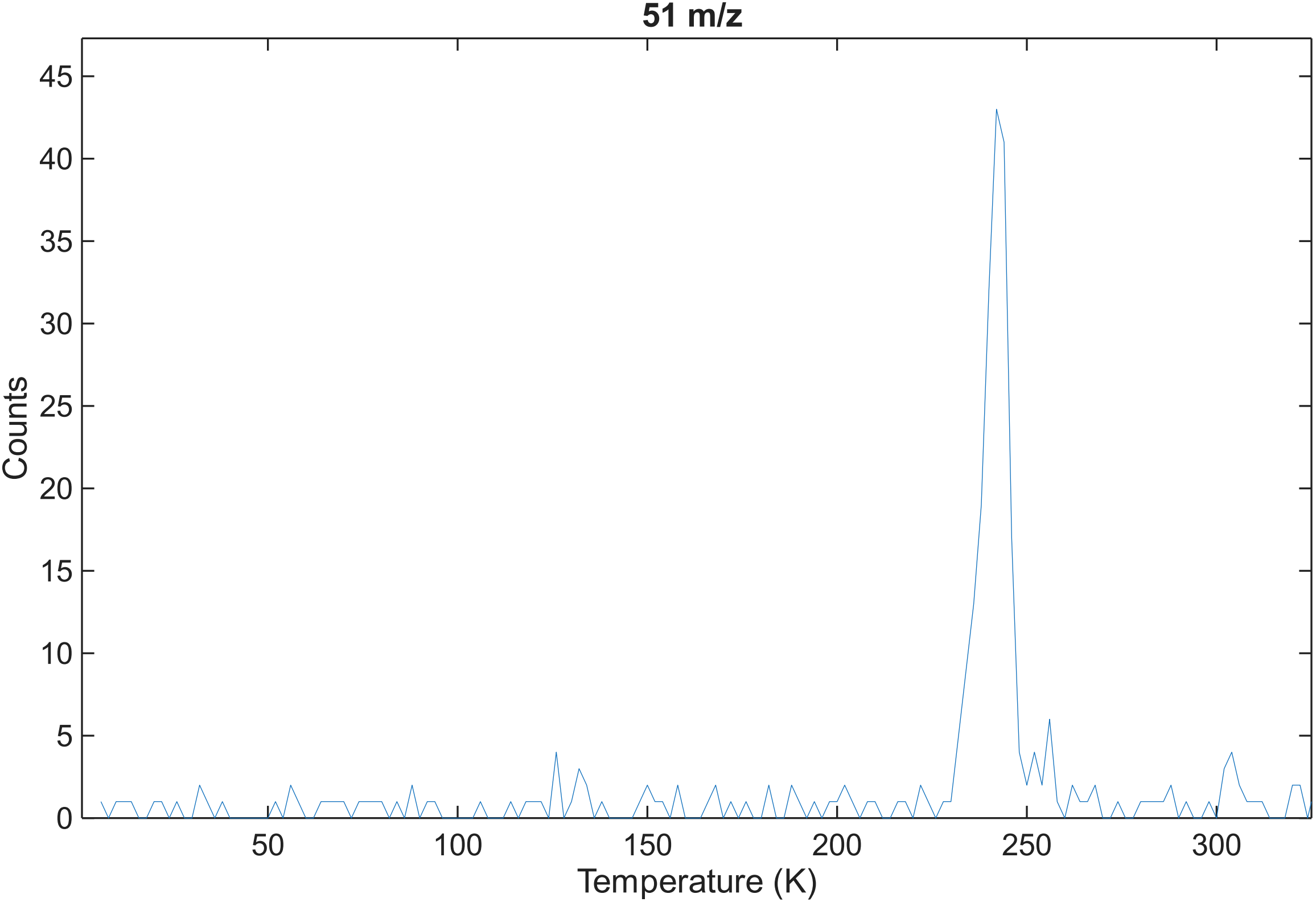

46 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

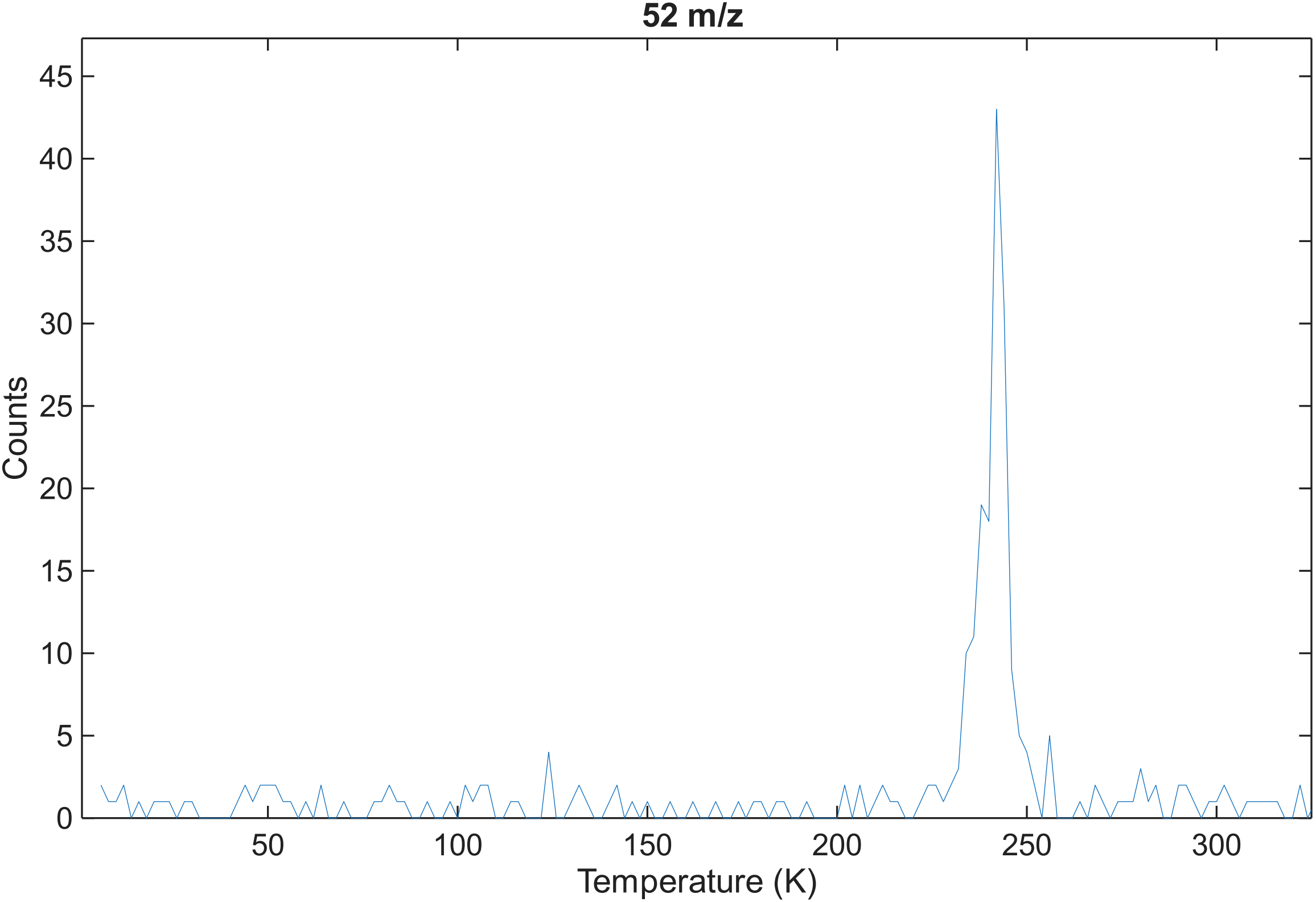

47 m/z
Counts
Temperature (K)
0
10
20
30
40
50
50
100
150
200
250
300

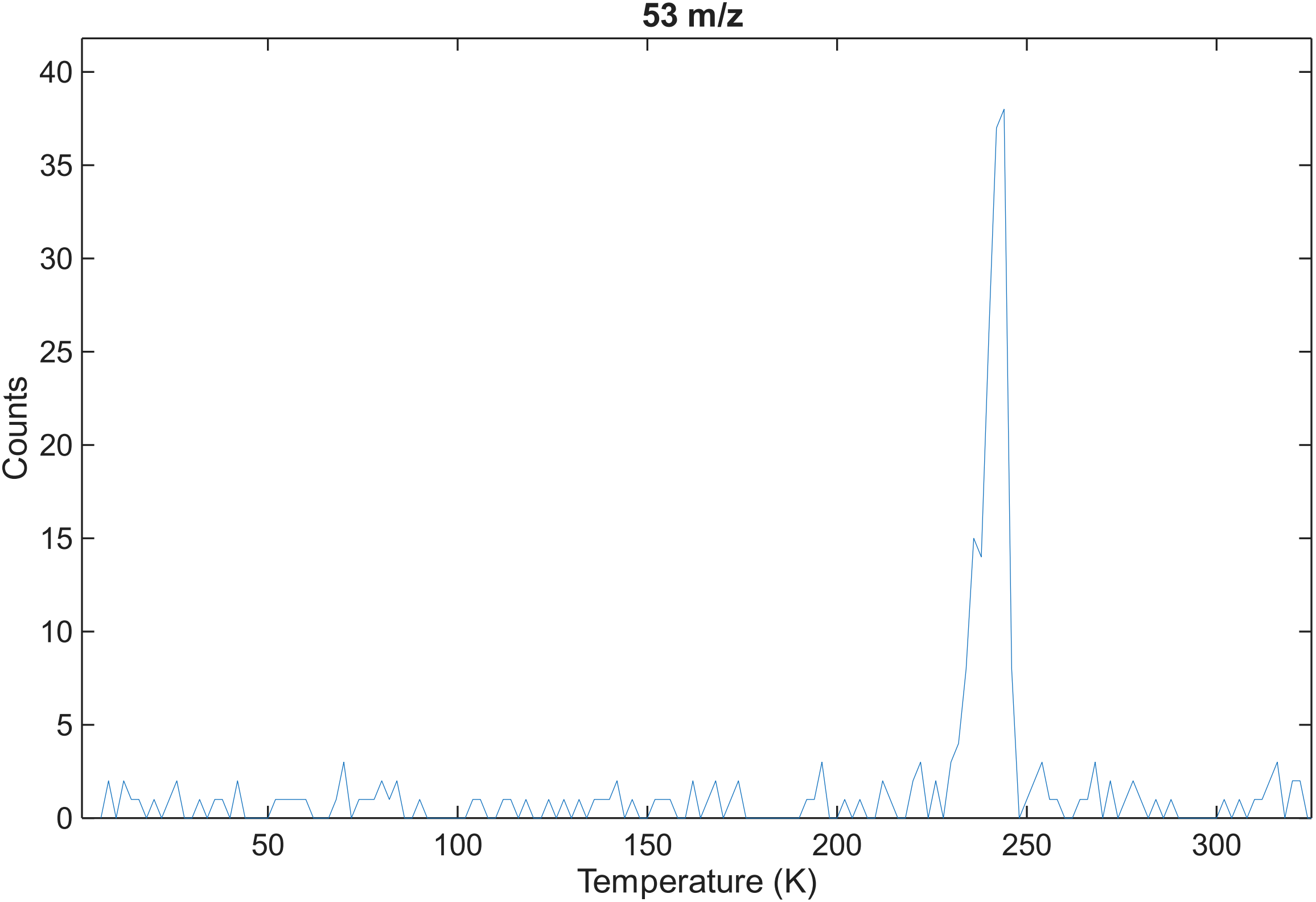

48 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

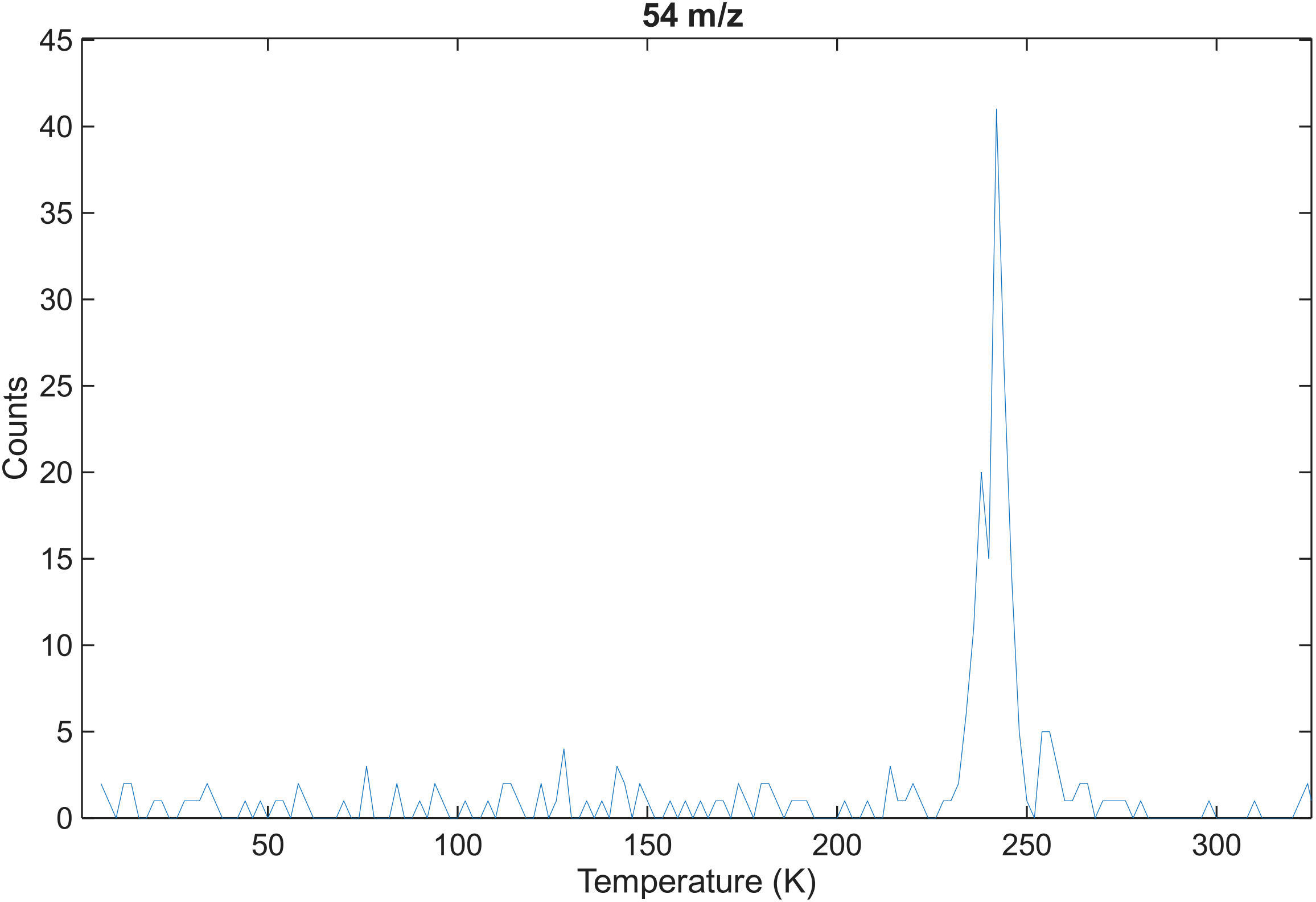

49 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

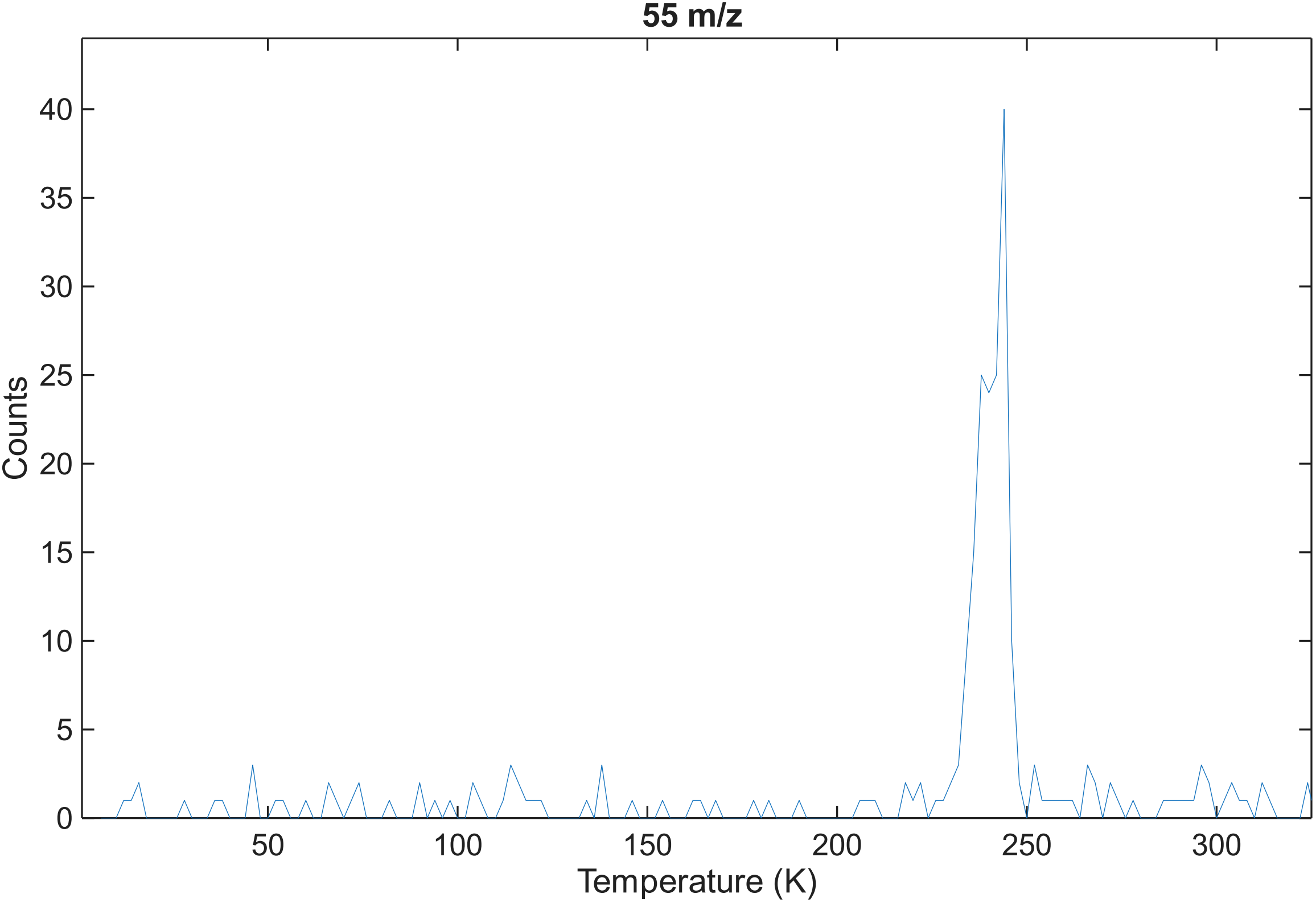

50 m/z
Counts
Temperature (K)
0
10
20
30
40
50
50
100
150
200
250
300

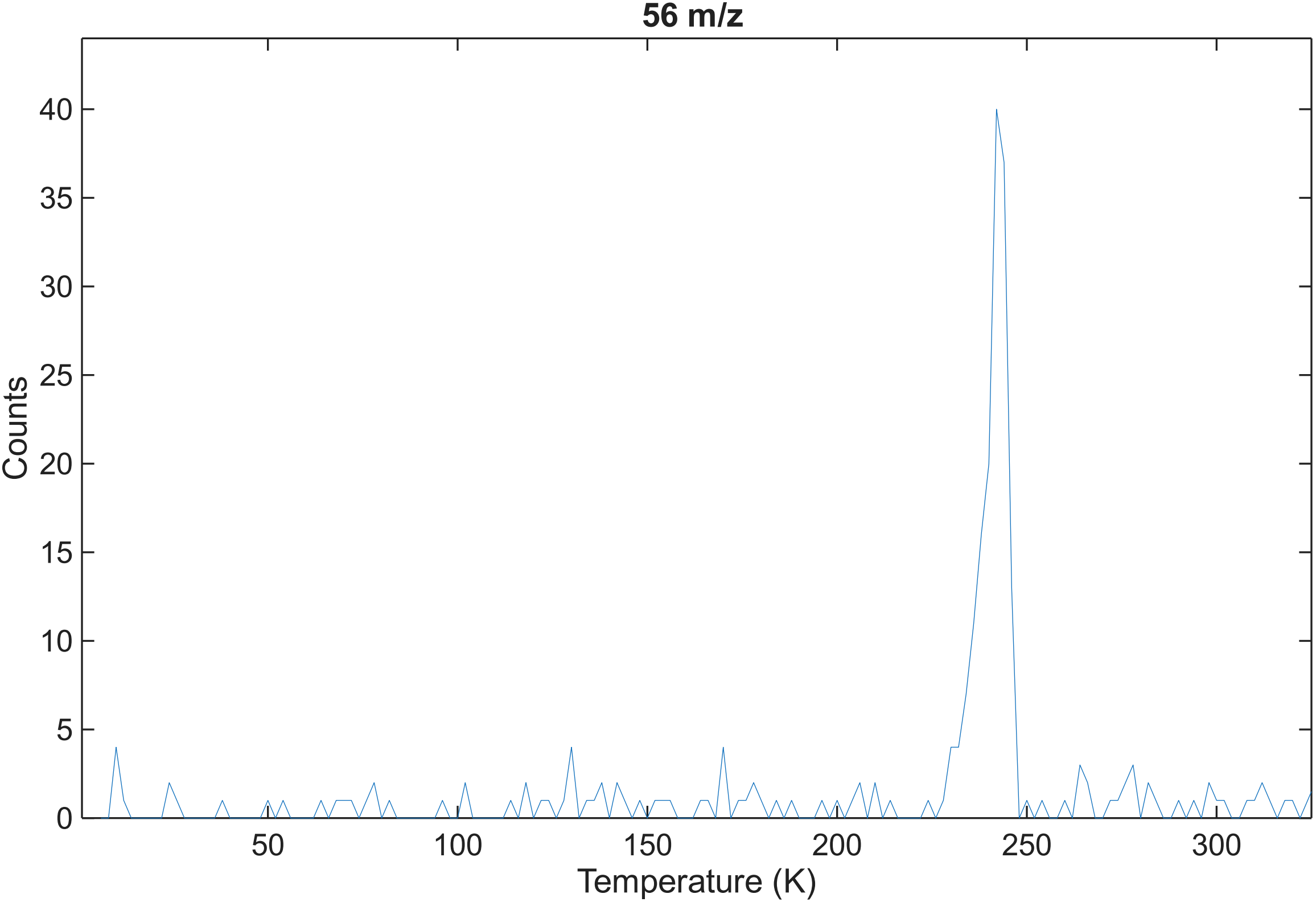

51 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

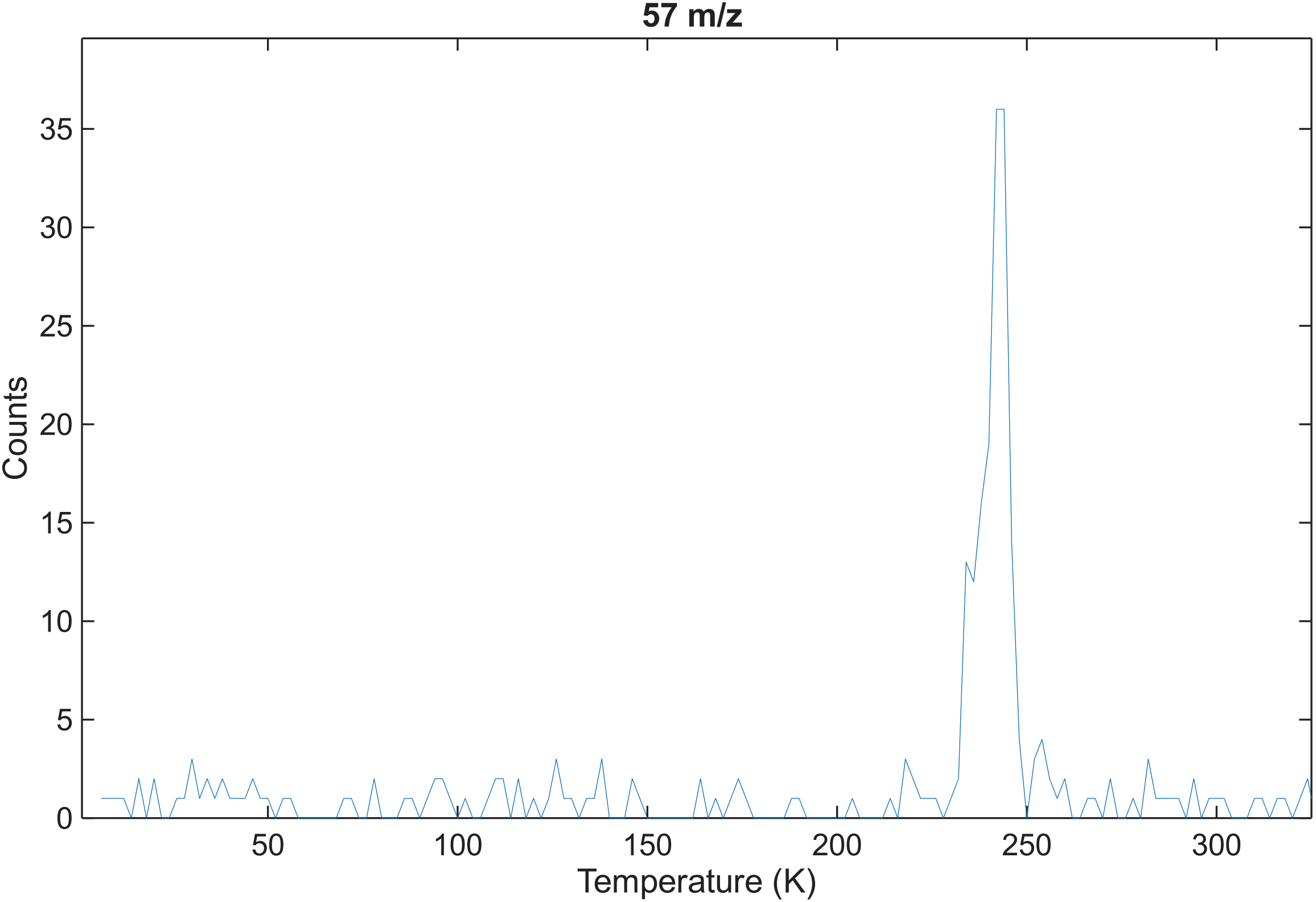

52 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300

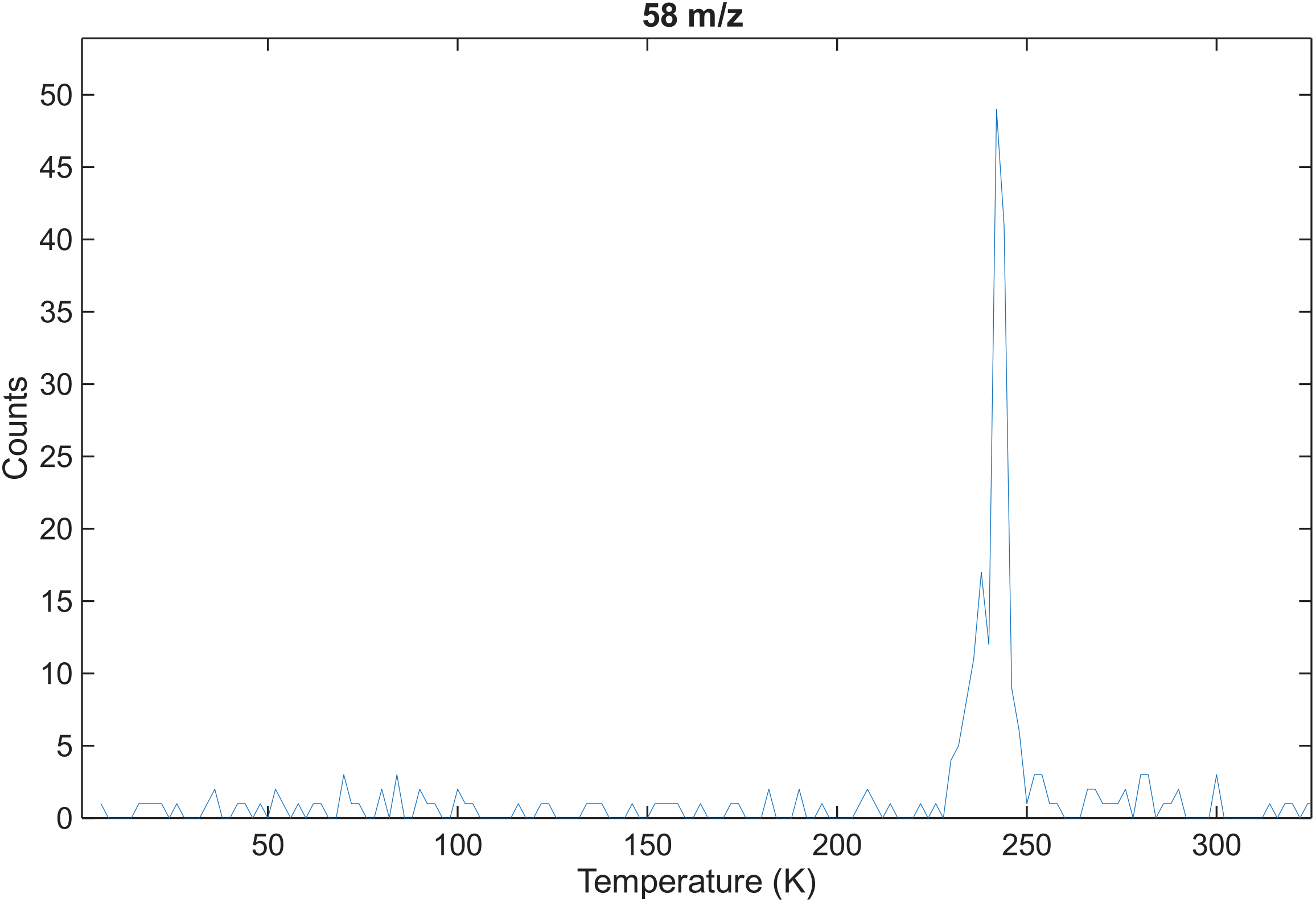

53 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

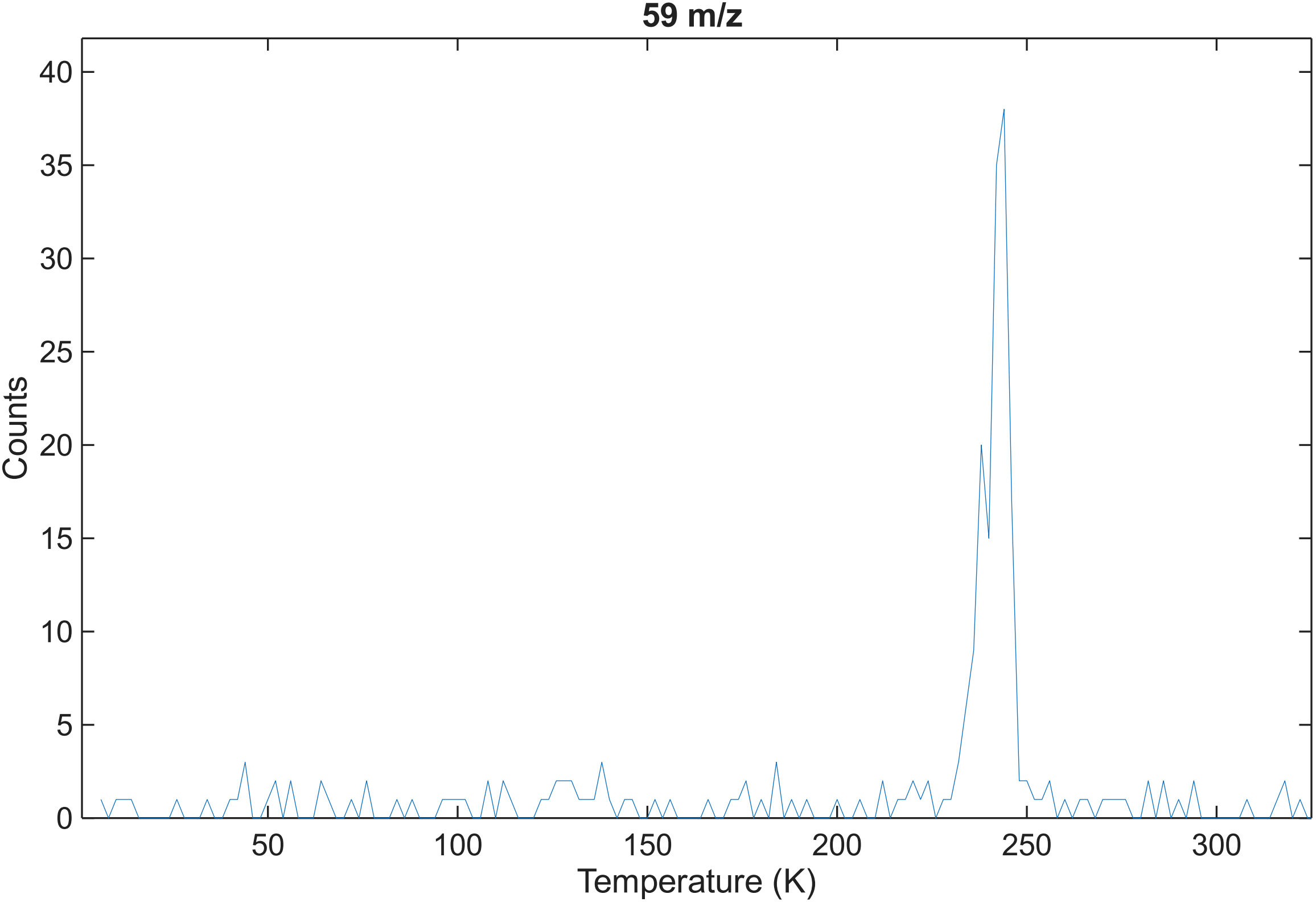

54 m/z
45
40
35
30
25
20
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)

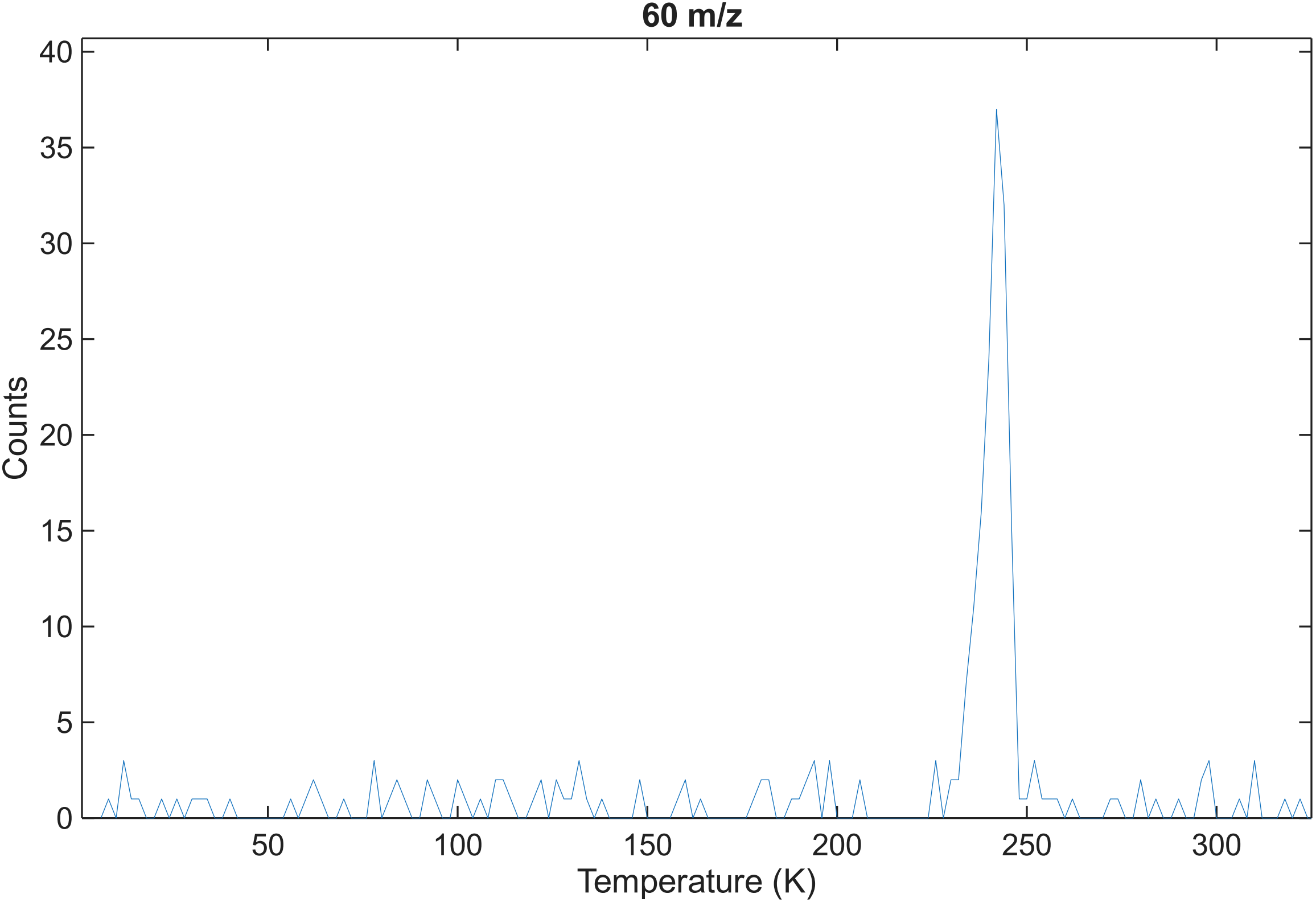

55 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

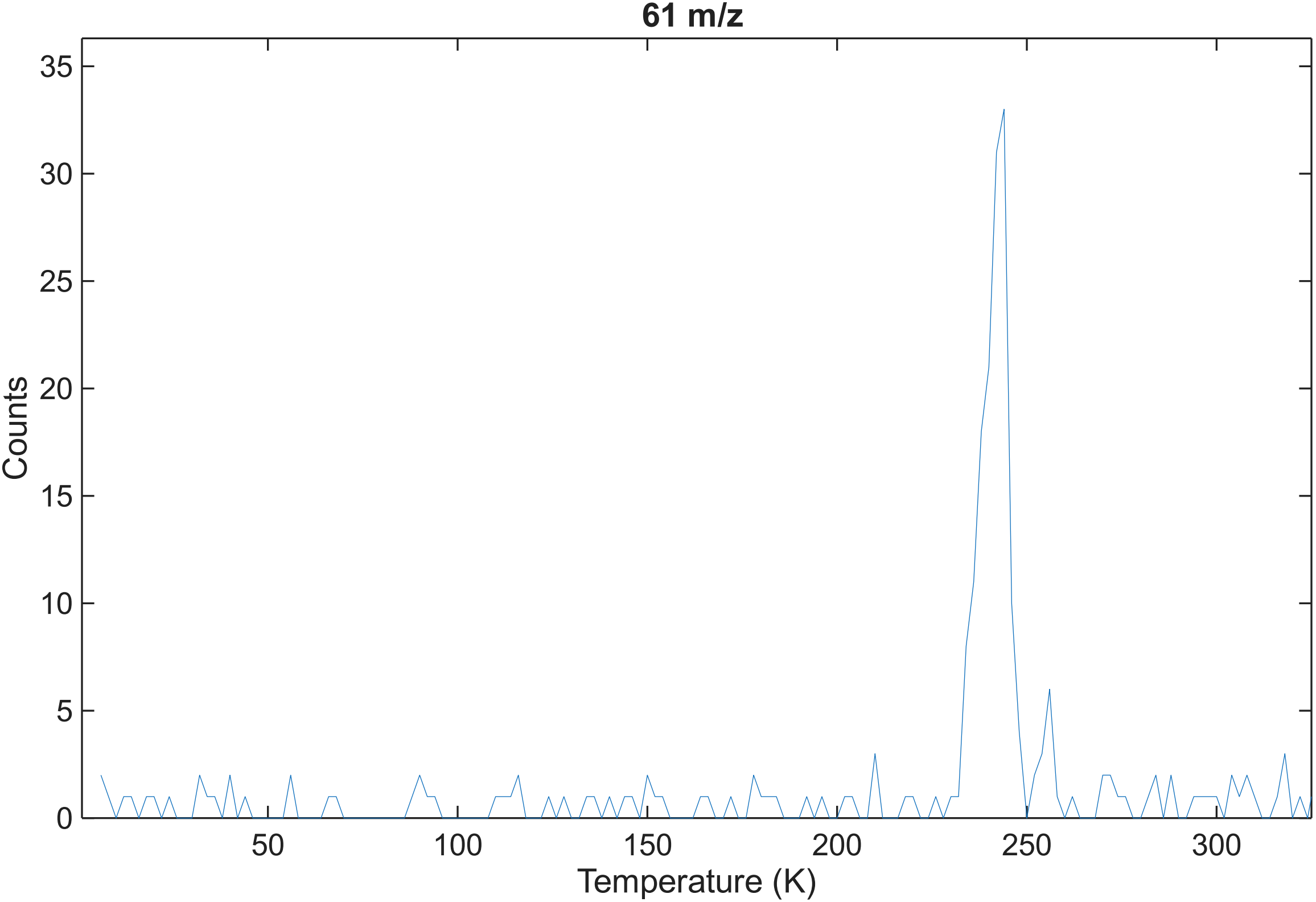

56 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

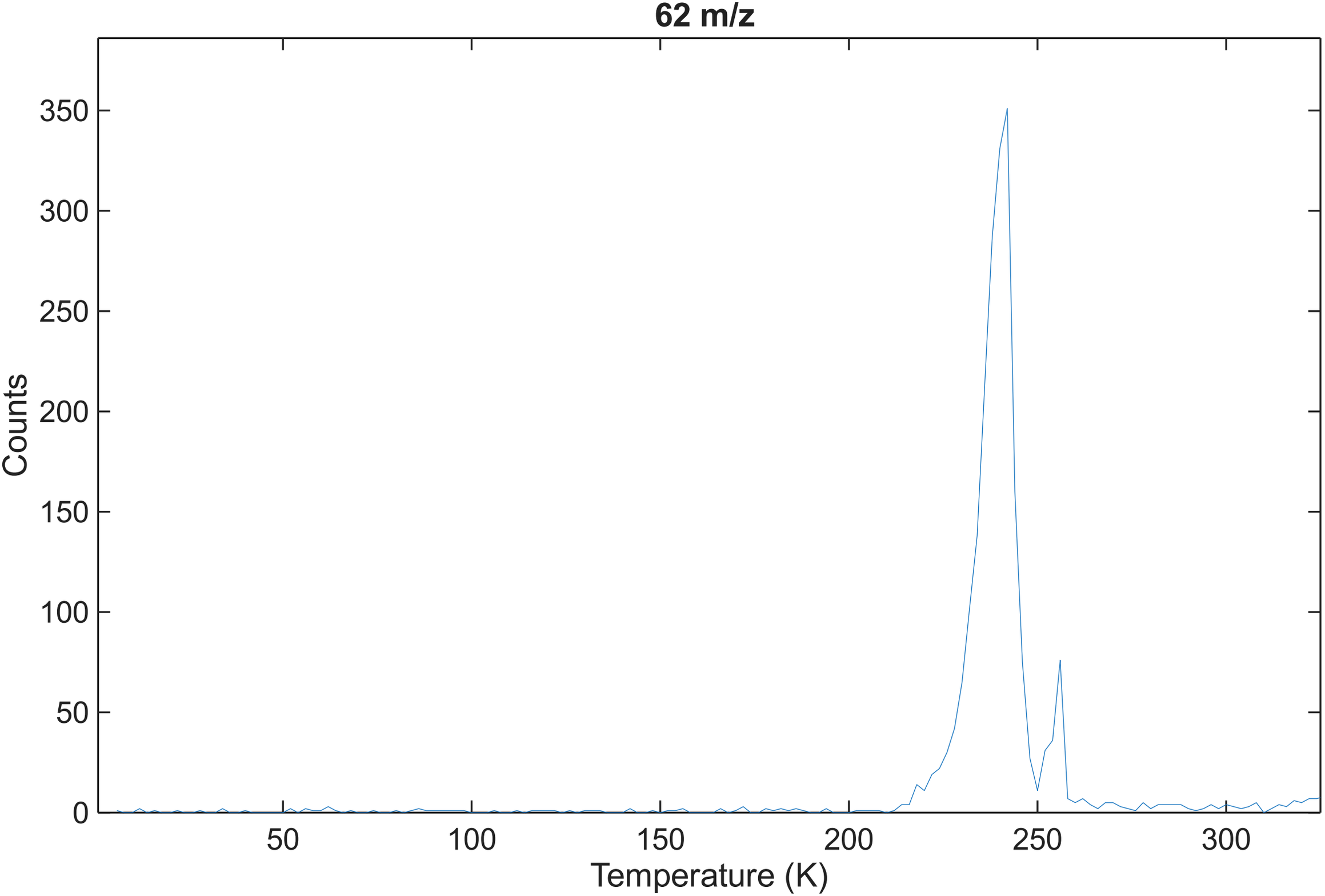

57 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
50
100
150
200
250
300

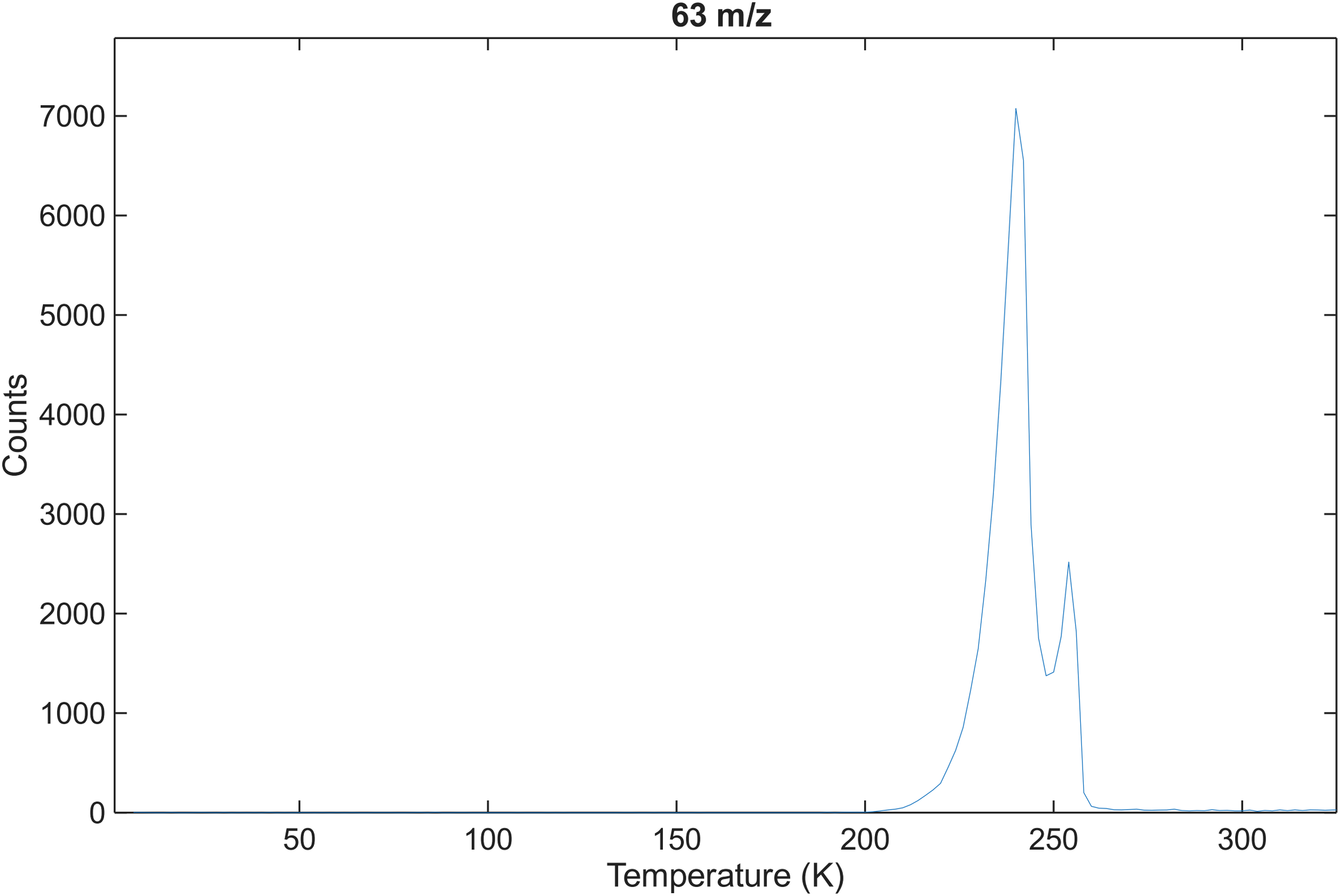

58 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
50
100
150
200
250
300

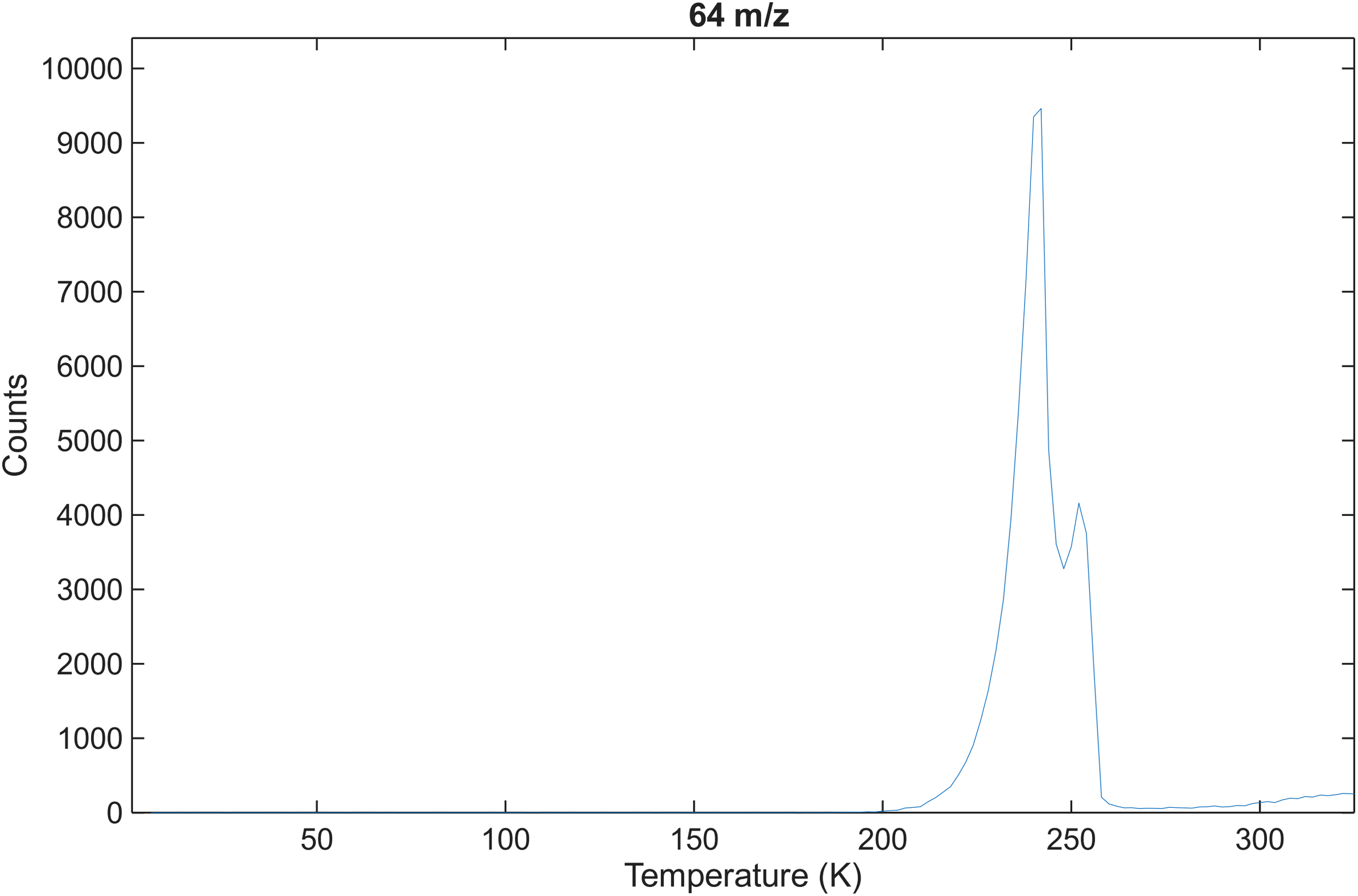

59 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

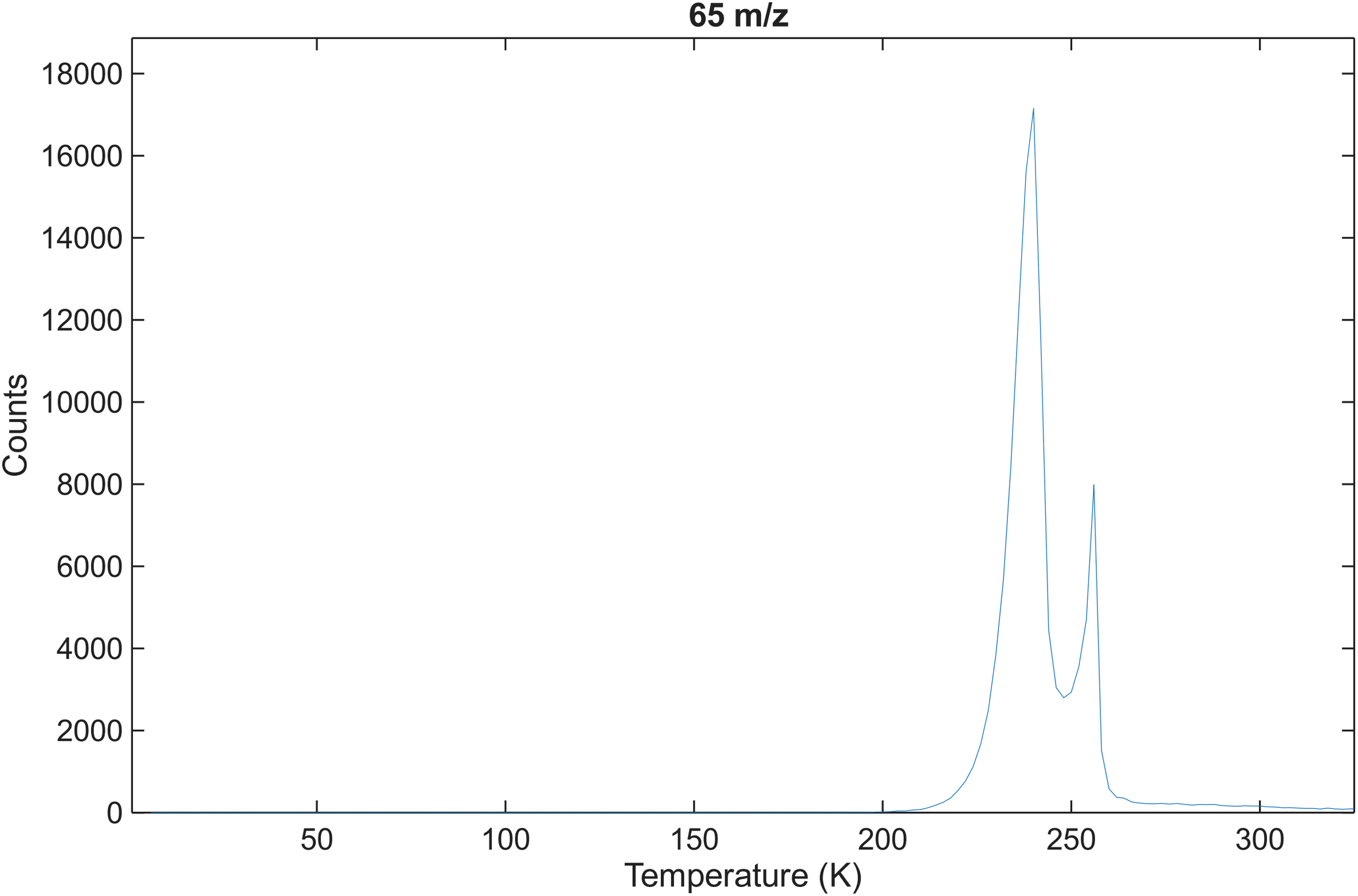

60 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
50
100
150
200
250
300

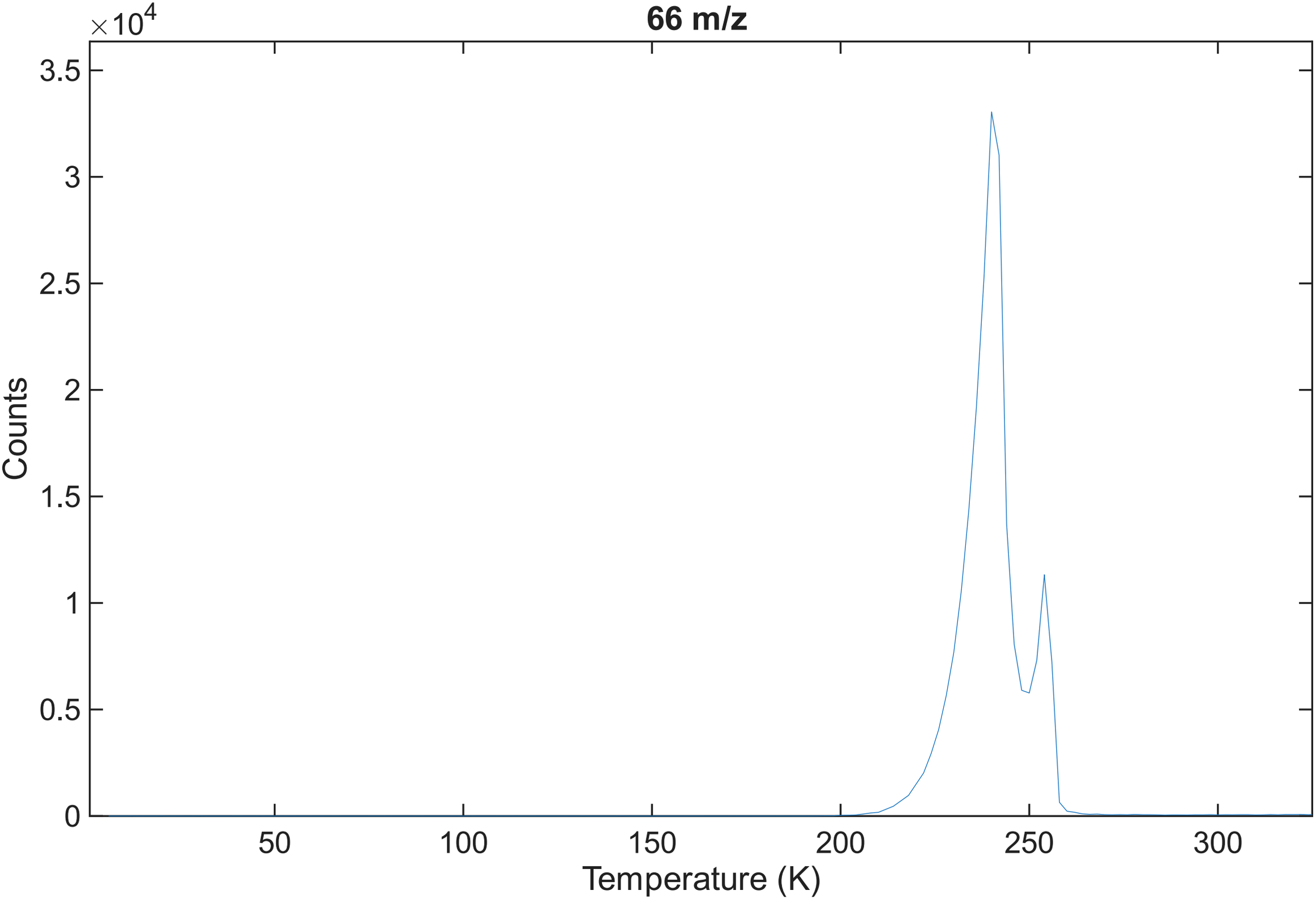

61 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
50
100
150
200
250
300

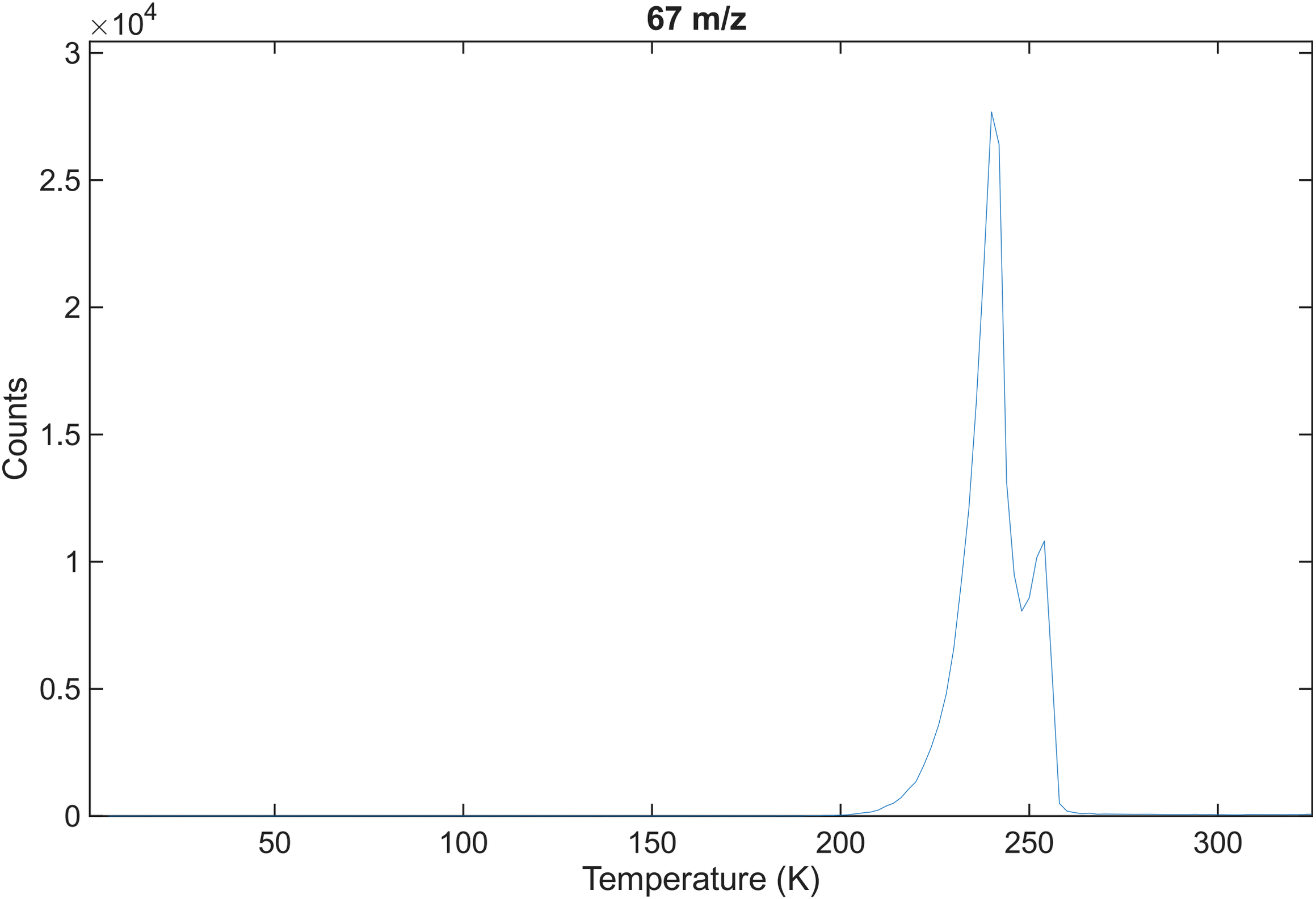

62 m/z
Counts
Temperature (K)
0
50
100
150
200
250
300
350
50
100
150
200
250
300

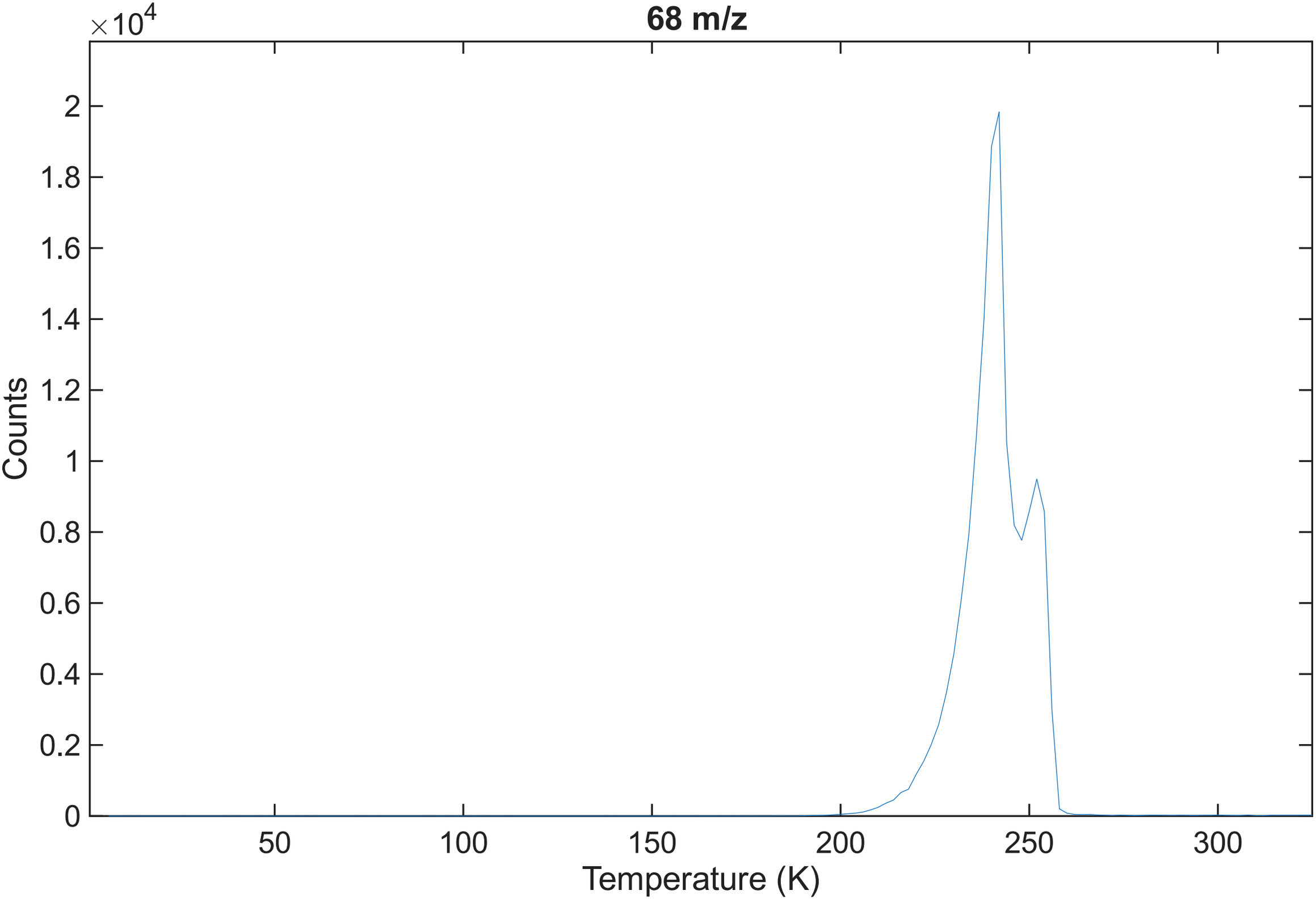

63 m/z
Counts
Temperature (K)
0
1000
2000
3000
4000
5000
6000
7000
50
100
150
200
250
300

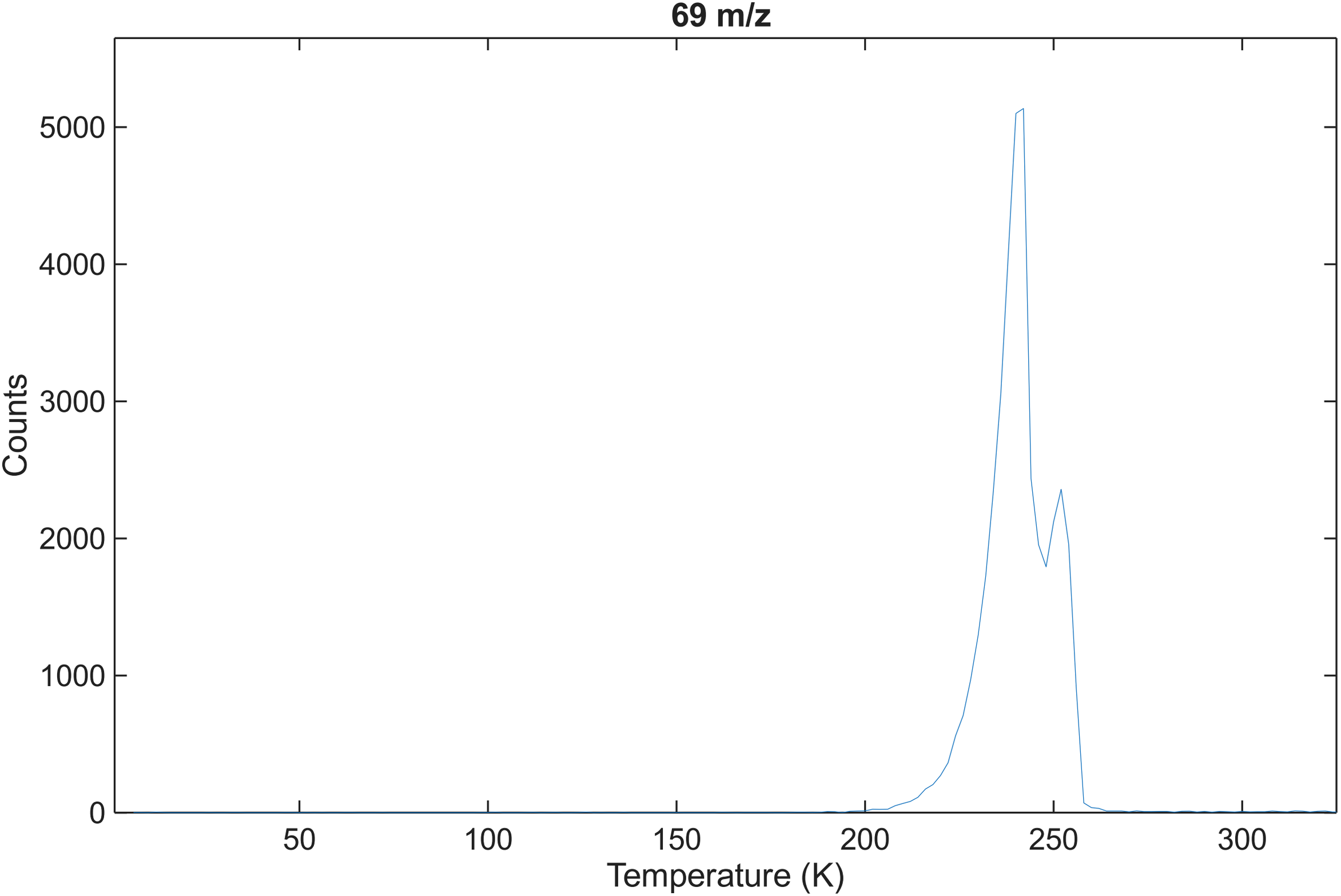

64 m/z
Counts
Temperature (K)
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
50
100
150
200
250
300

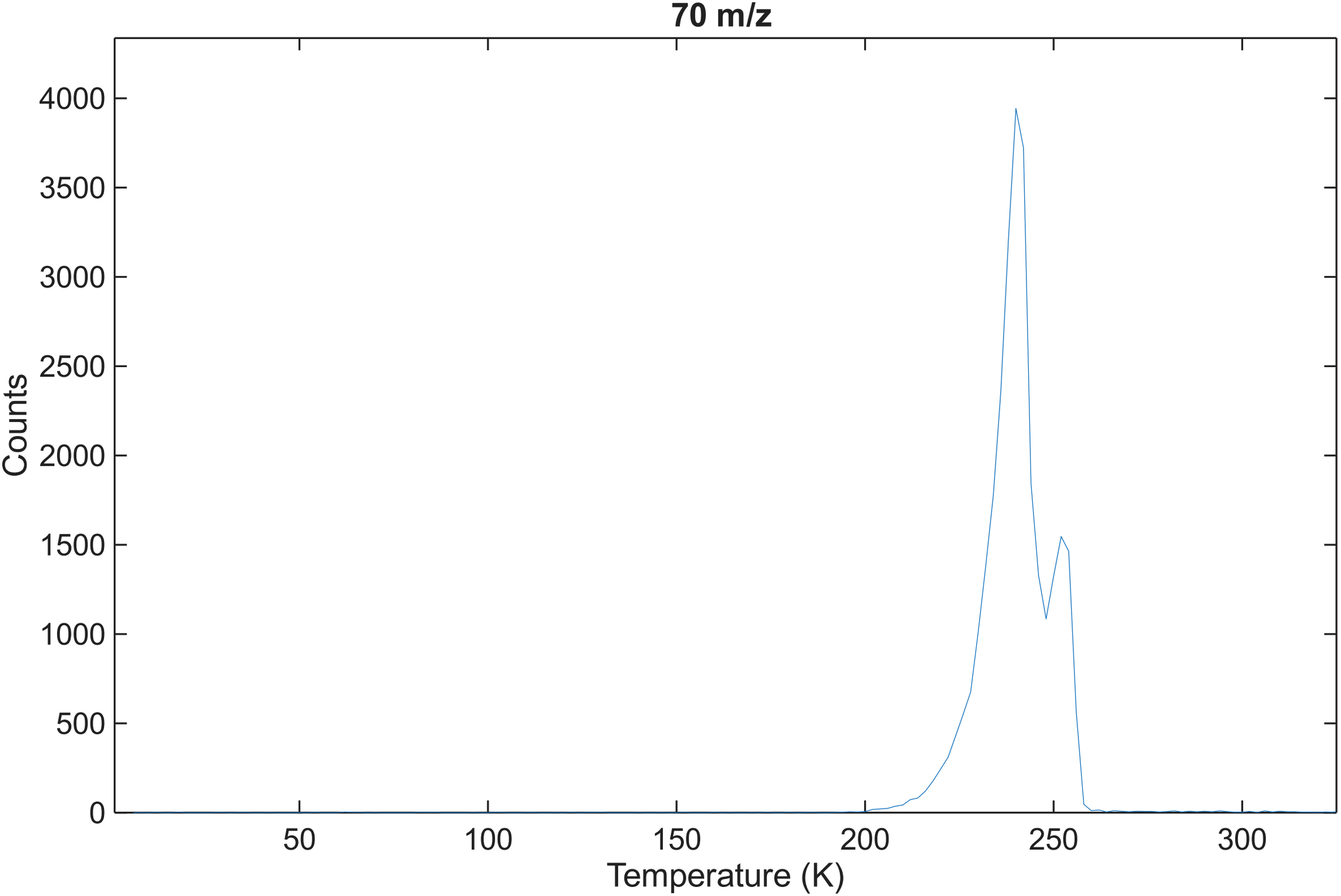

65 m/z
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Counts
50
100
150
200
250
300
Temperature (K)

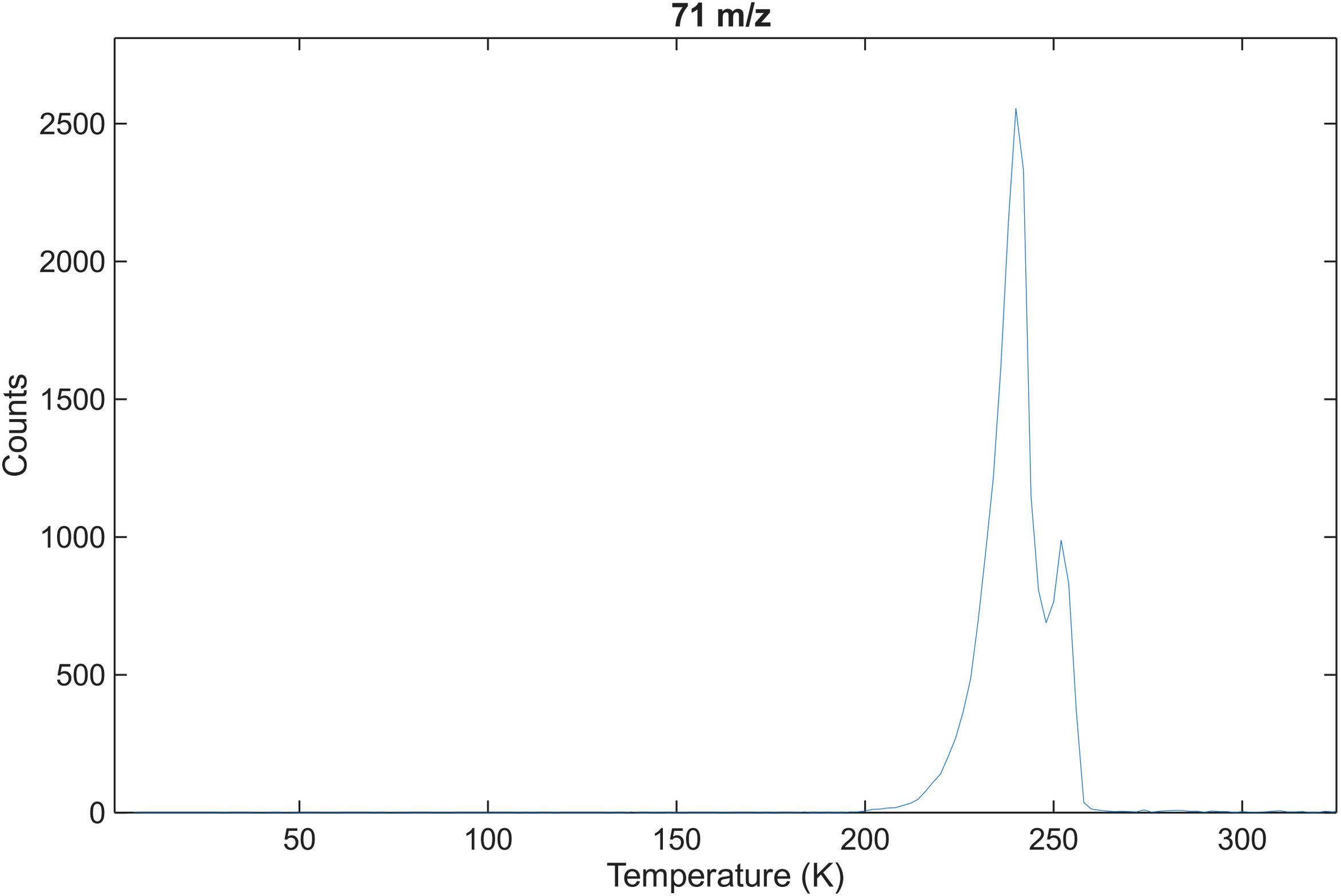

66 m/z
×10^4
3.5
3
2.5
2
1.5
1
0.5
0
Counts
50
100
150
200
250
300
Temperature (K)

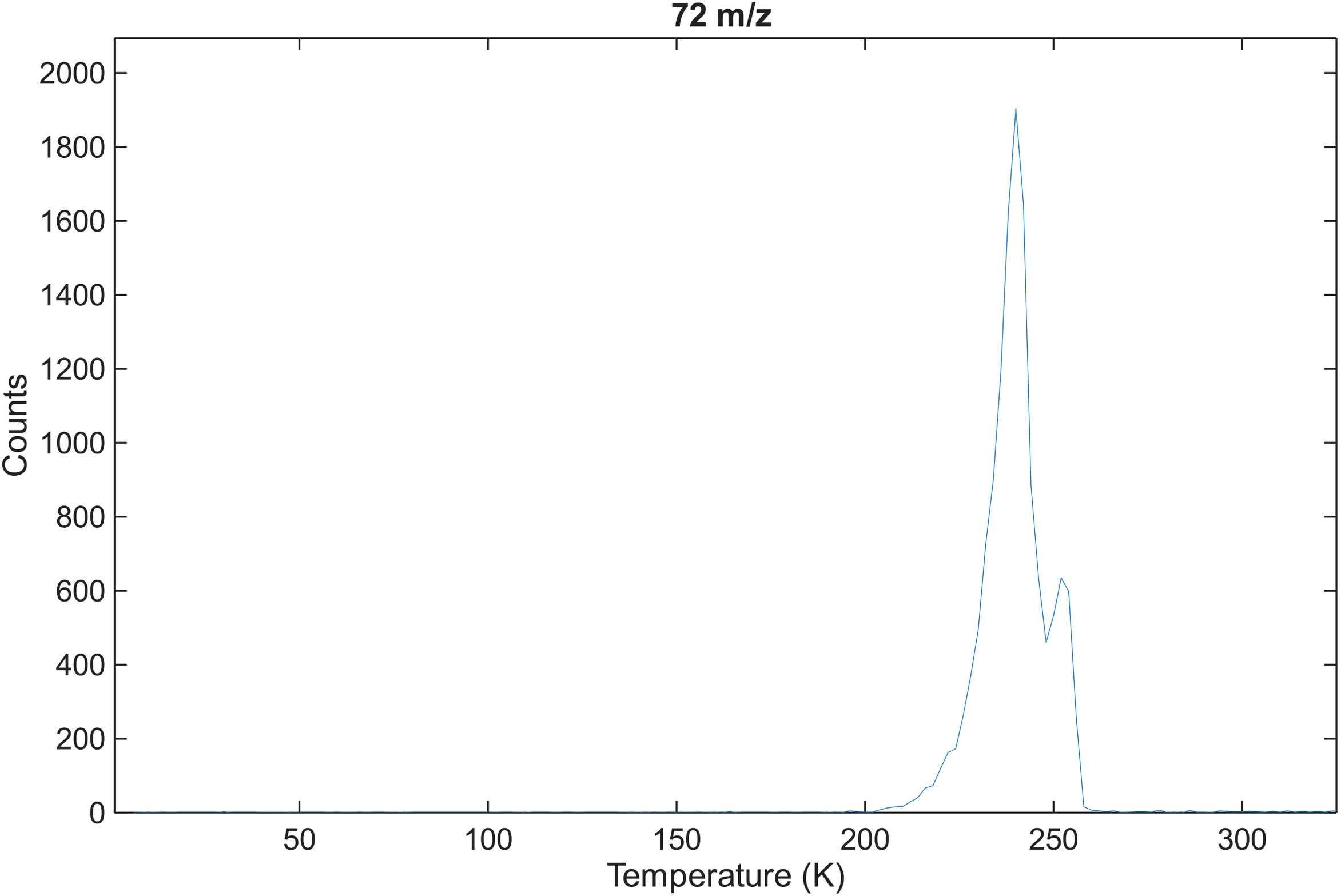

67 m/z
×10^4
3
2.5
2
1.5
1
0.5
0
Counts
50
100
150
200
250
300
Temperature (K)

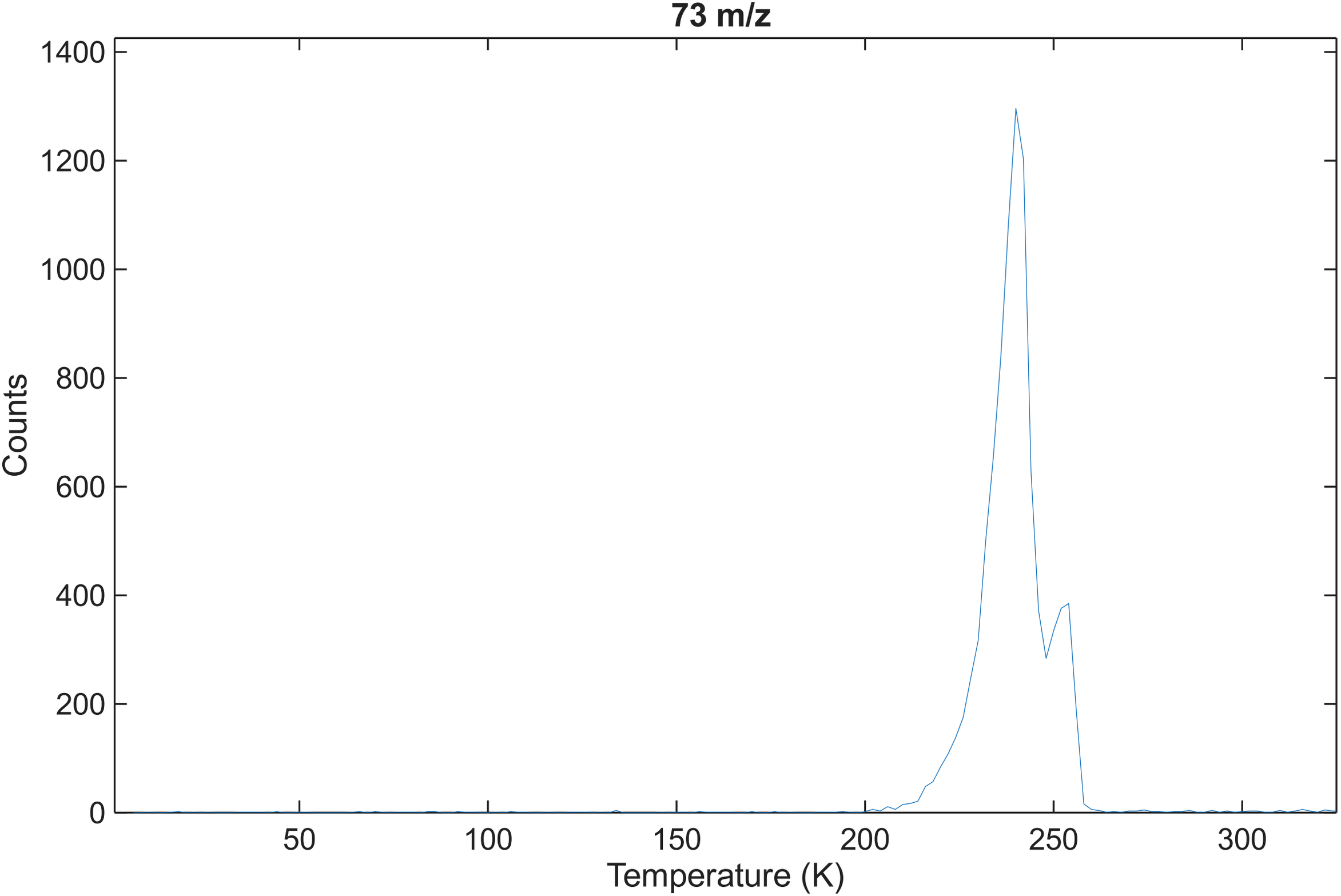

68 m/z
×10^4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Counts
50
100
150
200
250
300
Temperature (K)

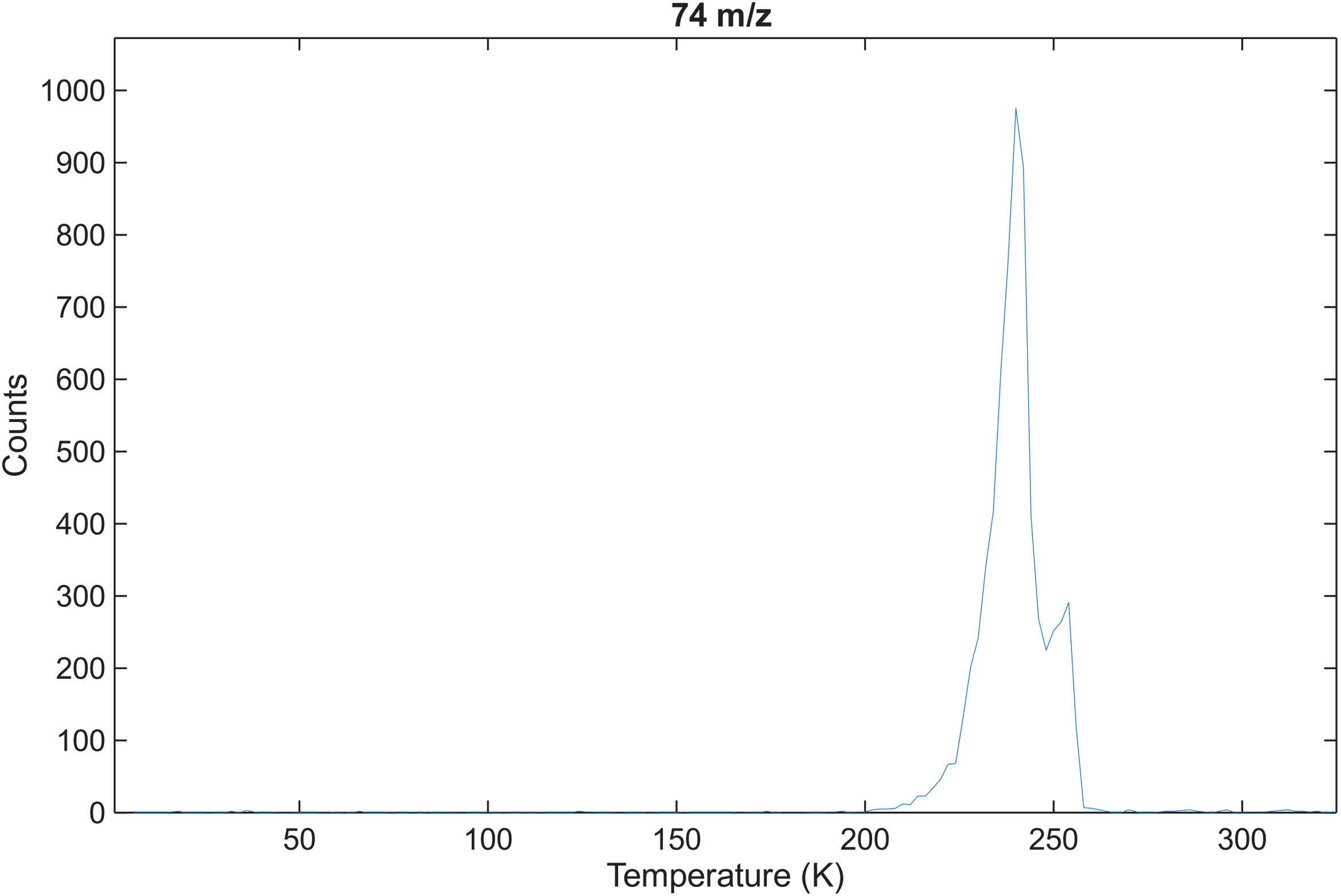

69 m/z
Counts
Temperature (K)
0
1000
2000
3000
4000
5000
50
100
150
200
250
300

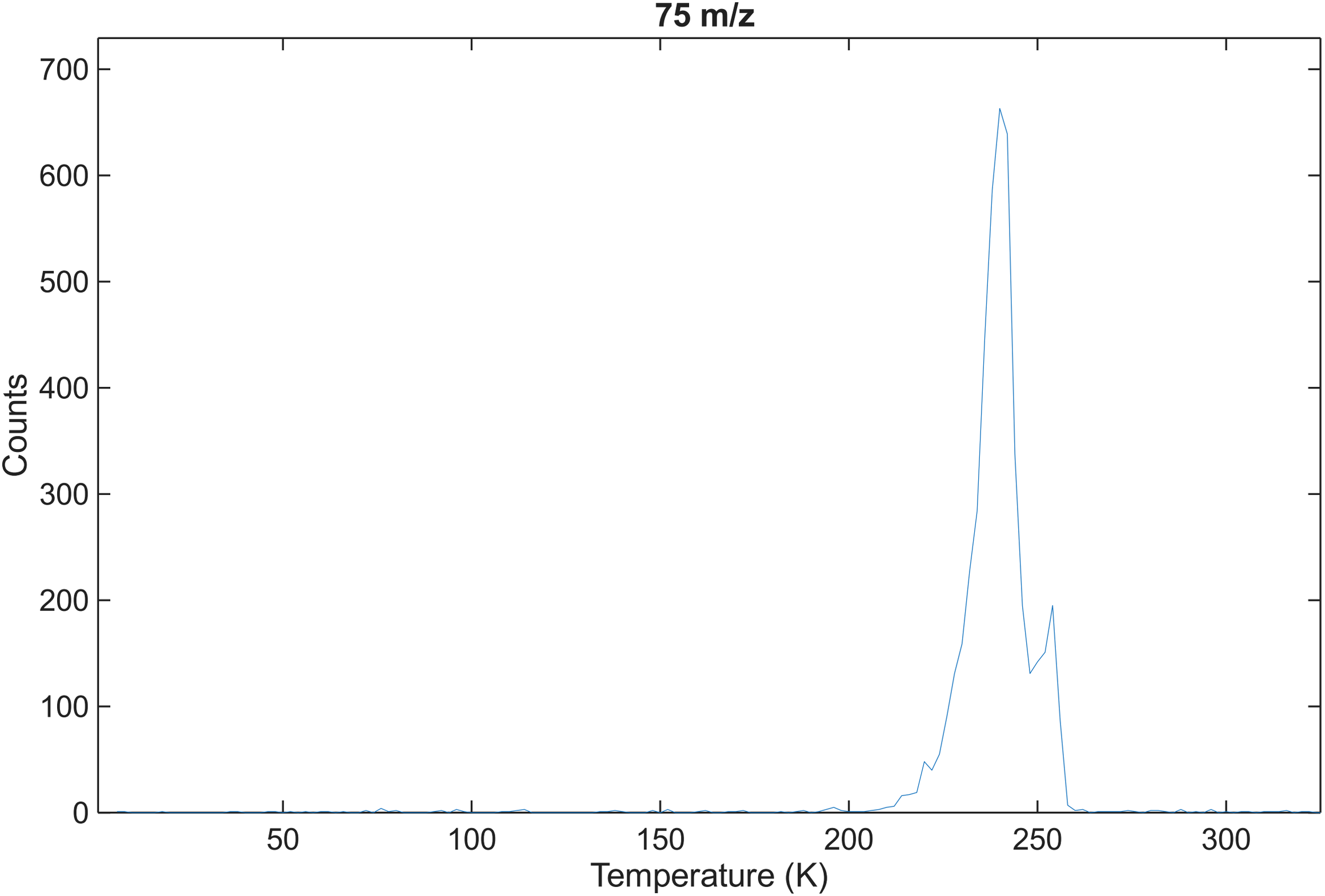

70 m/z
Counts
Temperature (K)
0
500
1000
1500
2000
2500
3000
3500
4000
50
100
150
200
250
300

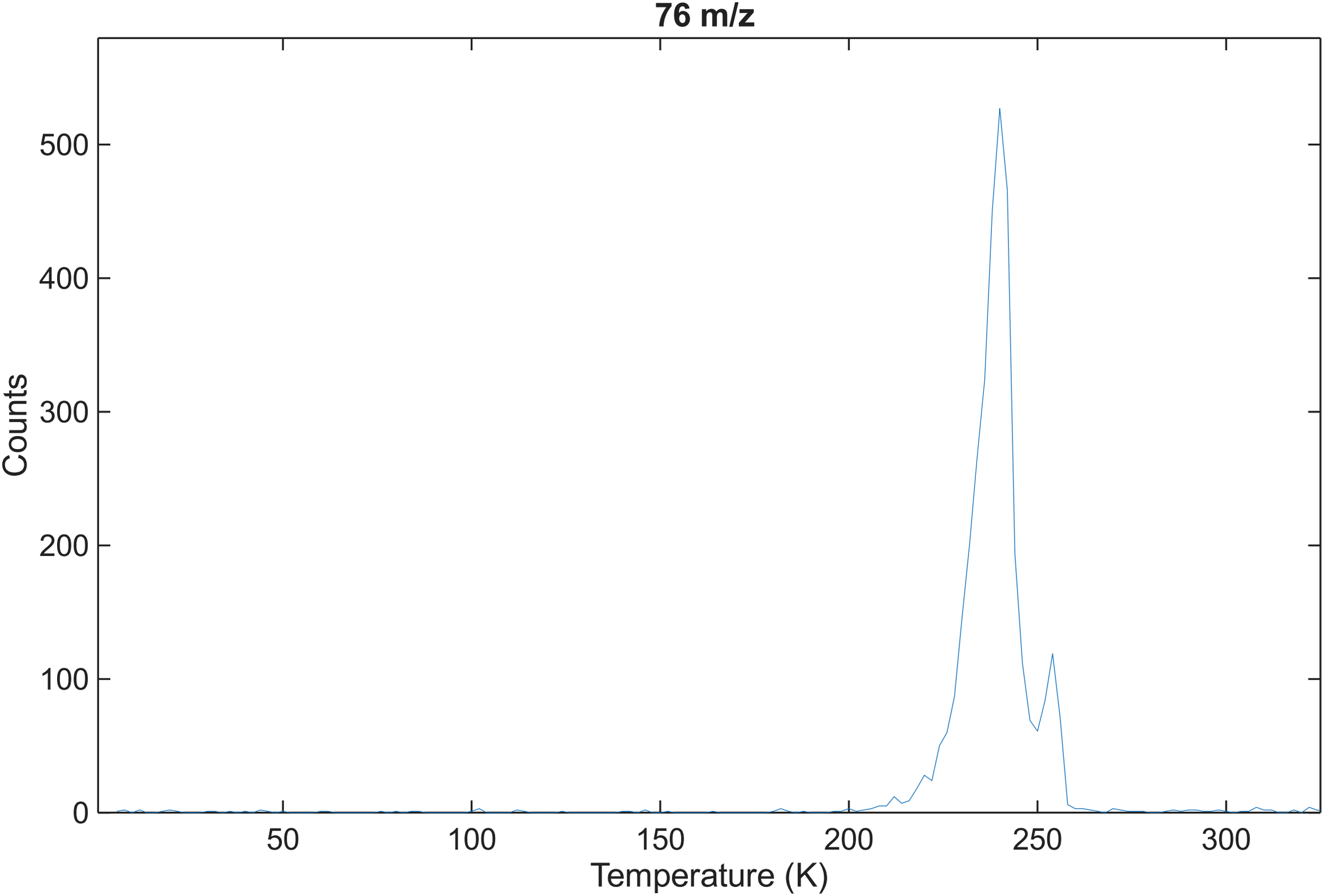

71 m/z
Counts
Temperature (K)
0
500
1000
1500
2000
2500
50
100
150
200
250
300

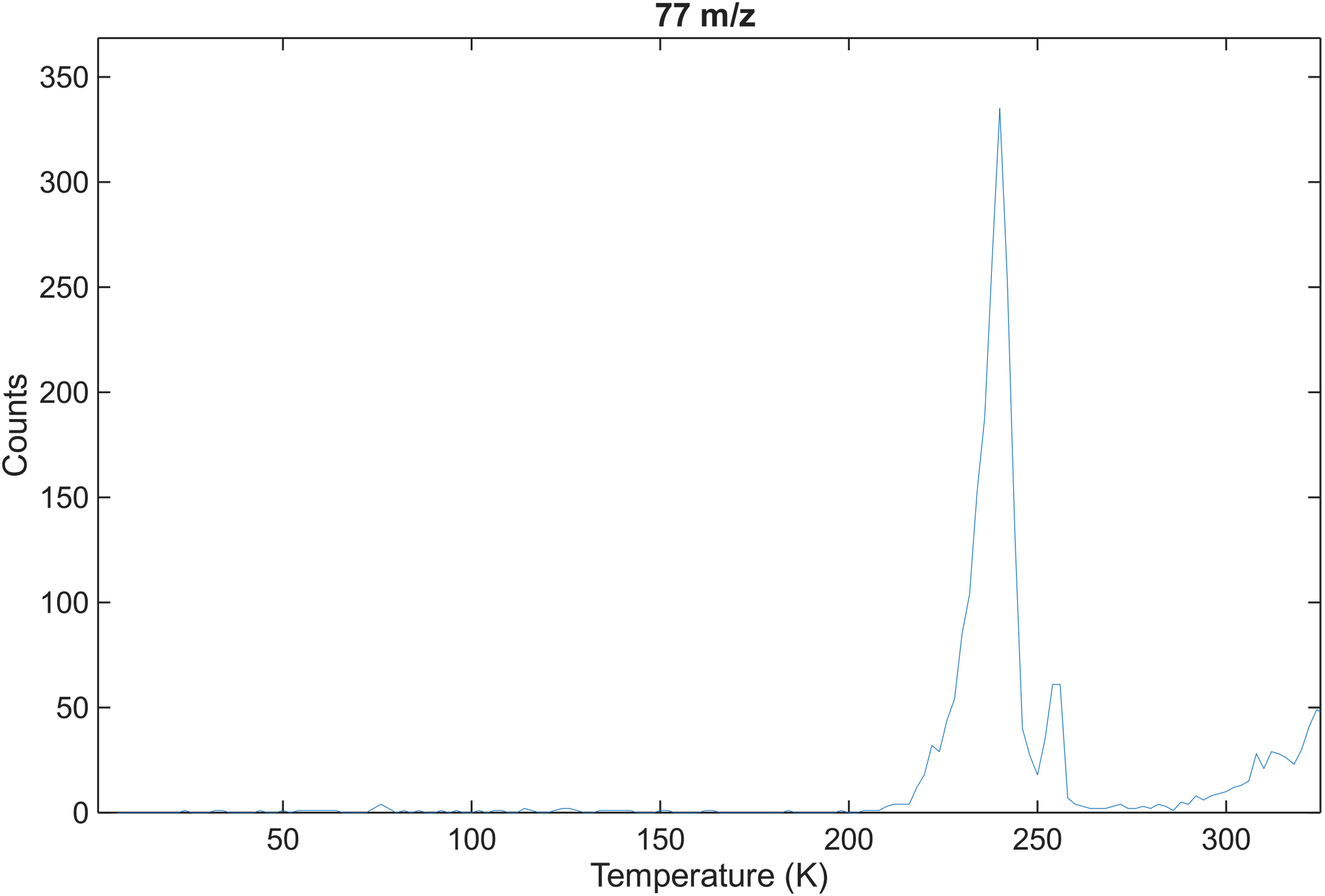

72 m/z
Counts
Temperature (K)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
50
100
150
200
250
300

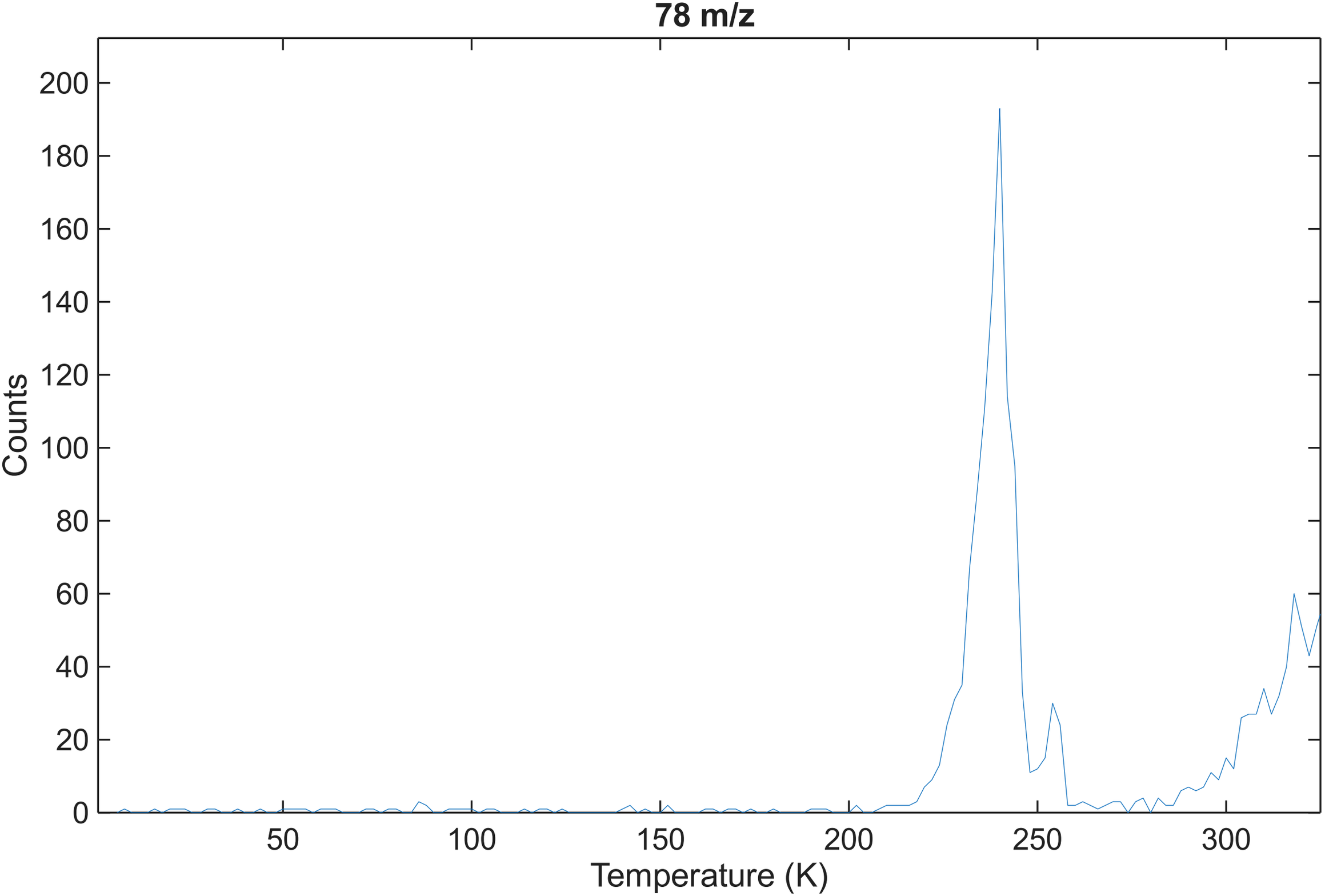

73 m/z
1400
1200
1000
800
600
400
200
0
Counts
50
100
150
200
250
300
Temperature (K)

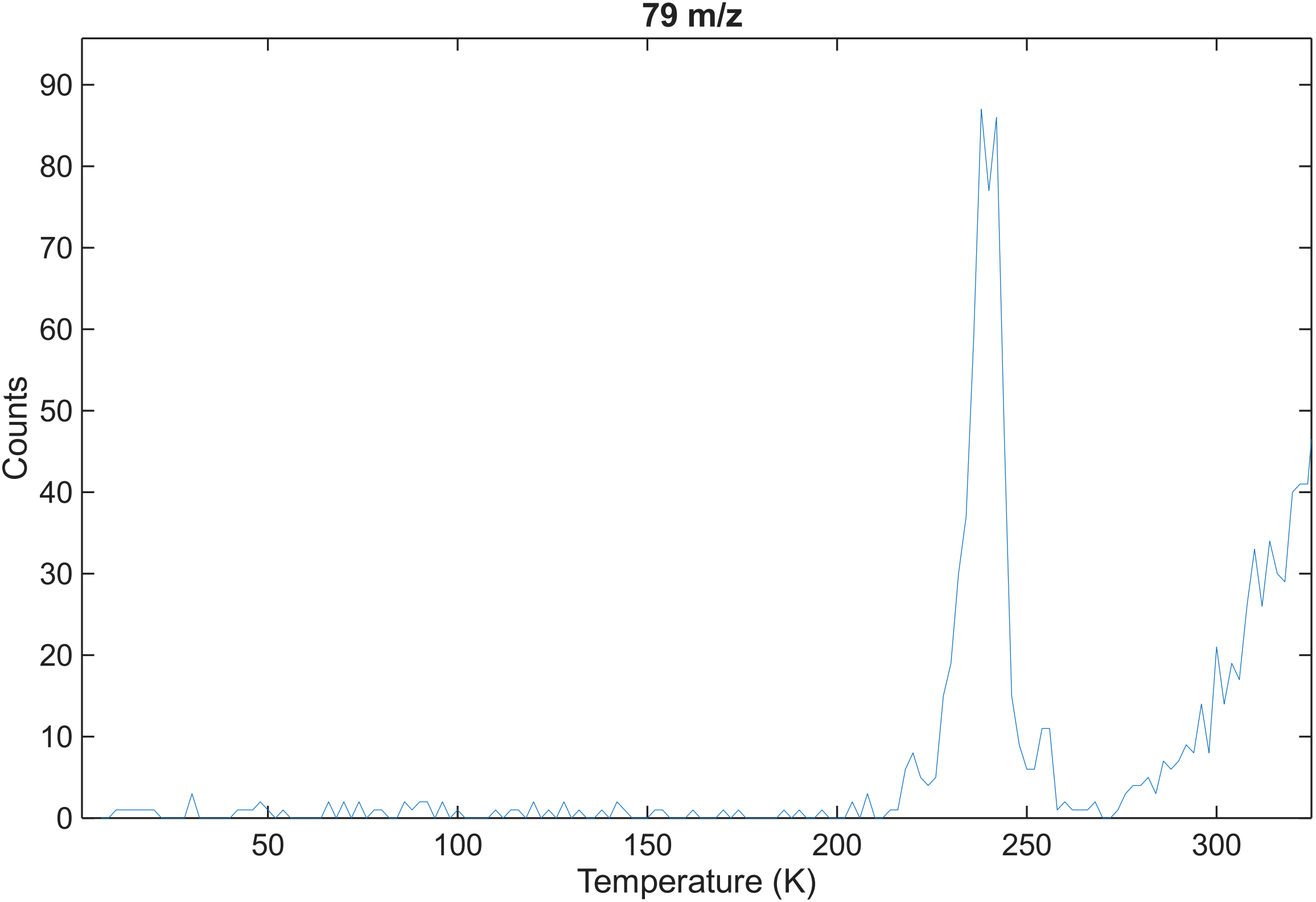

74 m/z
Counts
Temperature (K)
0
100
200
300
400
500
600
700
800
900
1000
50
100
150
200
250
300

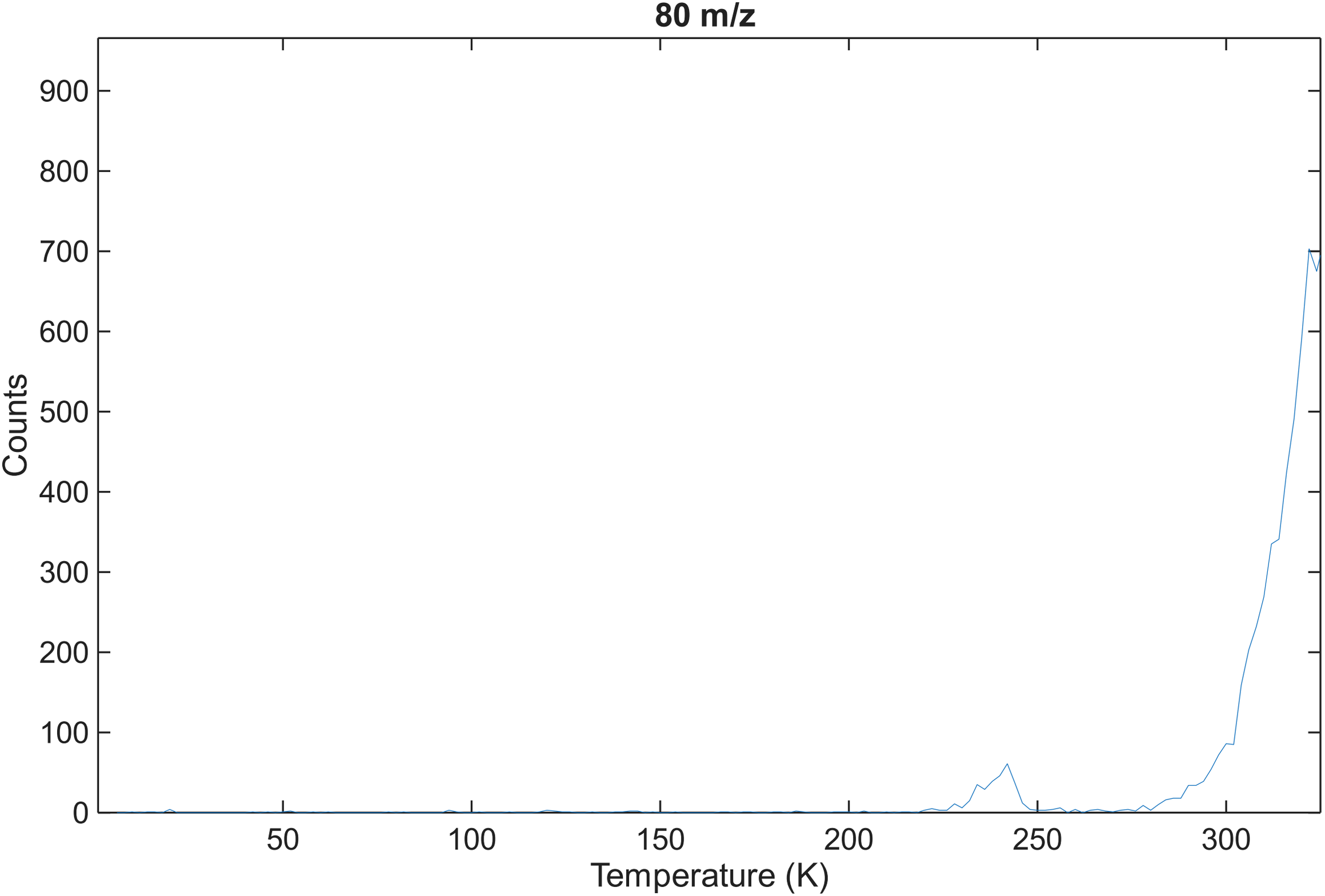

75 m/z
Counts
Temperature (K)
0
100
200
300
400
500
600
700
50
100
150
200
250
300

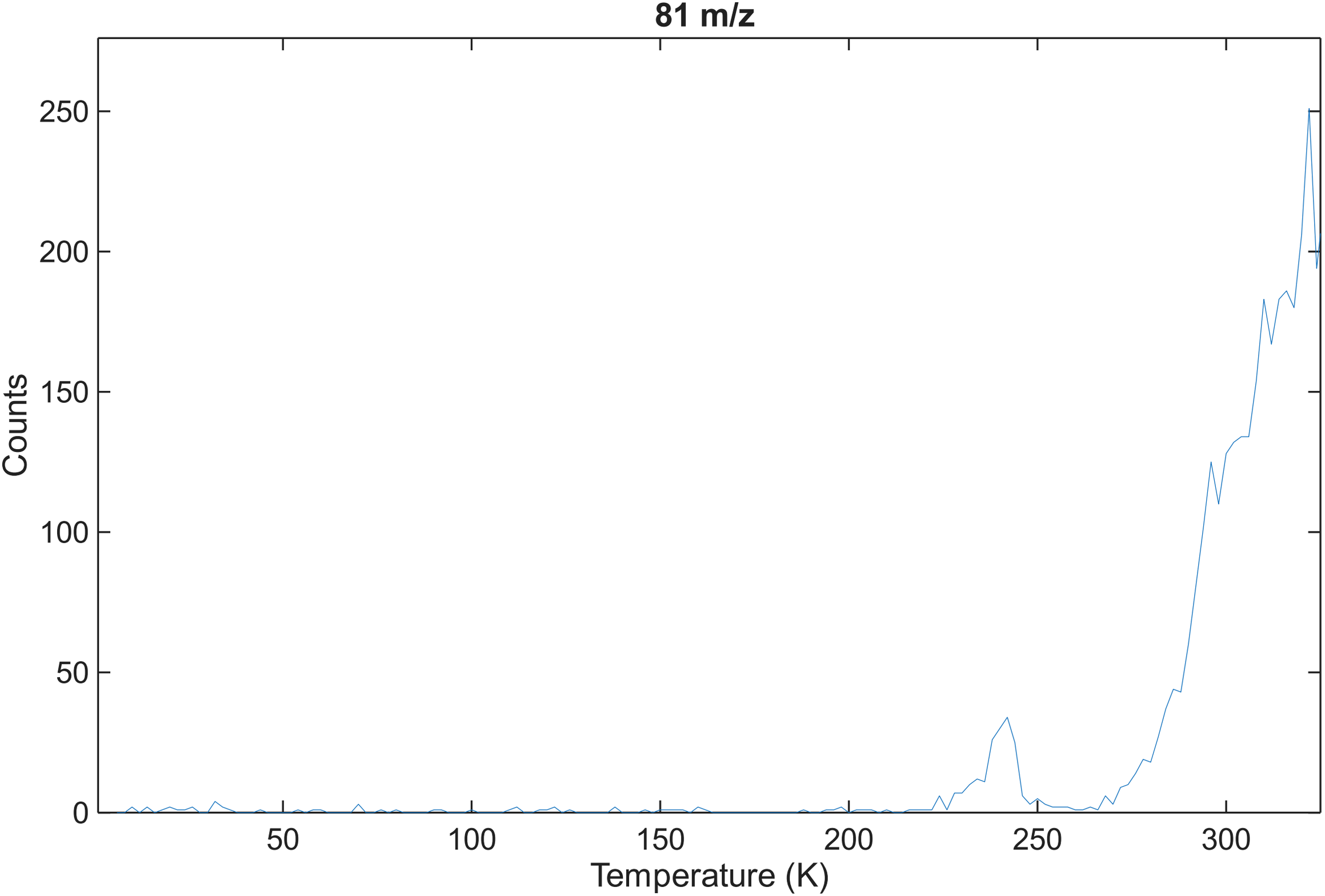

76 m/z
Counts
Temperature (K)
0
100
200
300
400
500
50
100
150
200
250
300

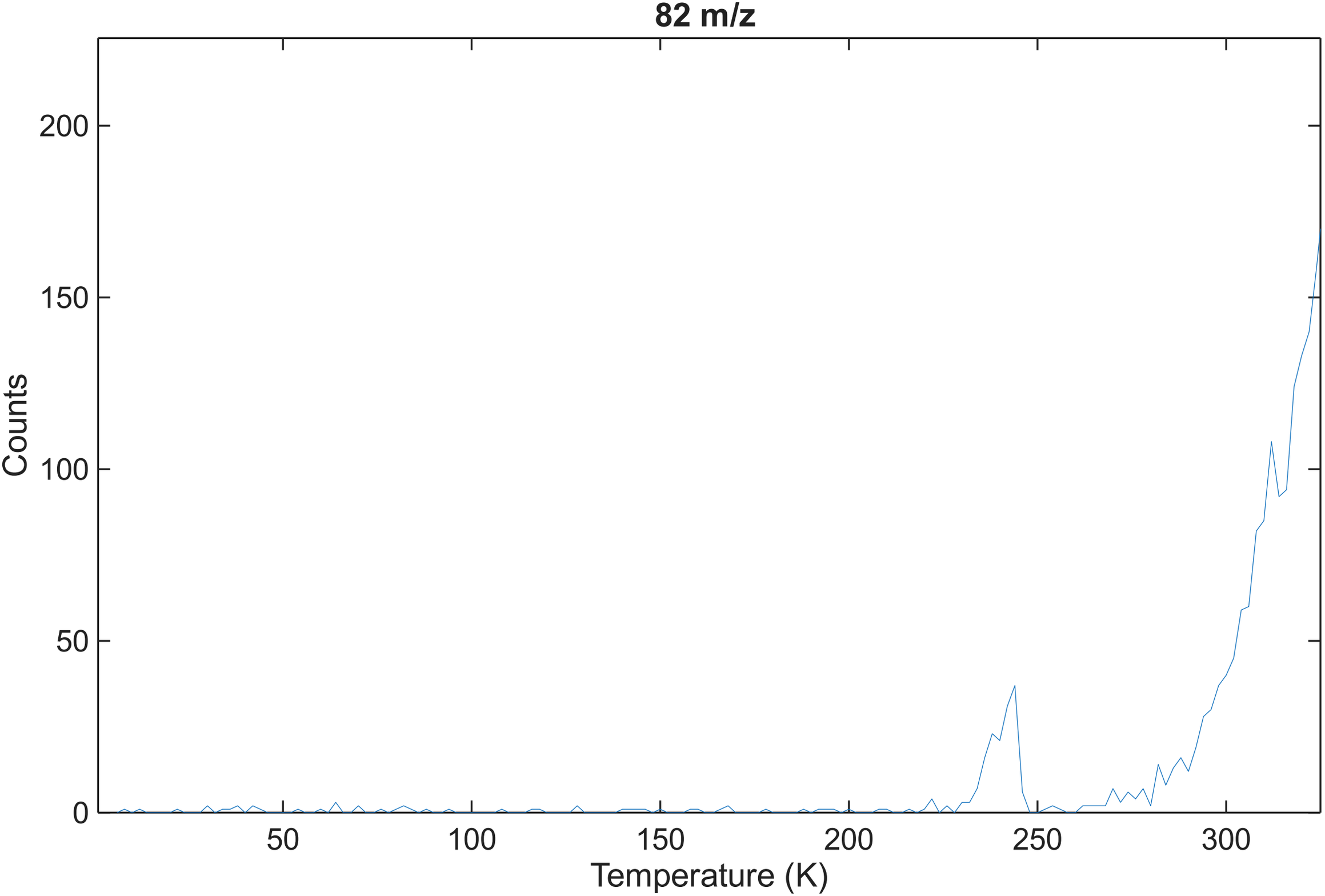

77 m/z
Counts
Temperature (K)
0
50
100
150
200
250
300
350
50
100
150
200
250
300

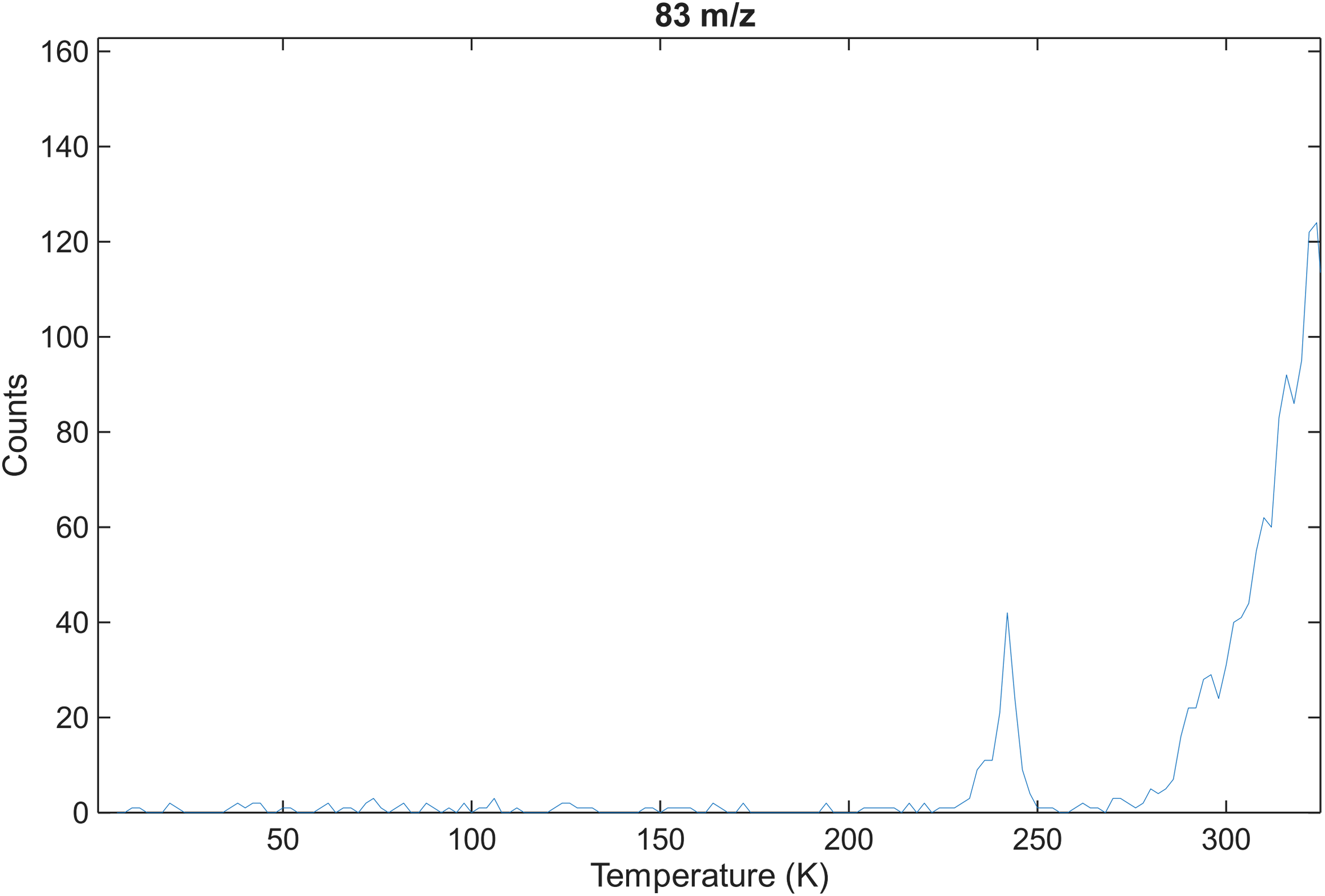

78 m/z
Counts
Temperature (K)
0
20
40
60
80
100
120
140
160
180
200
50
100
150
200
250
300

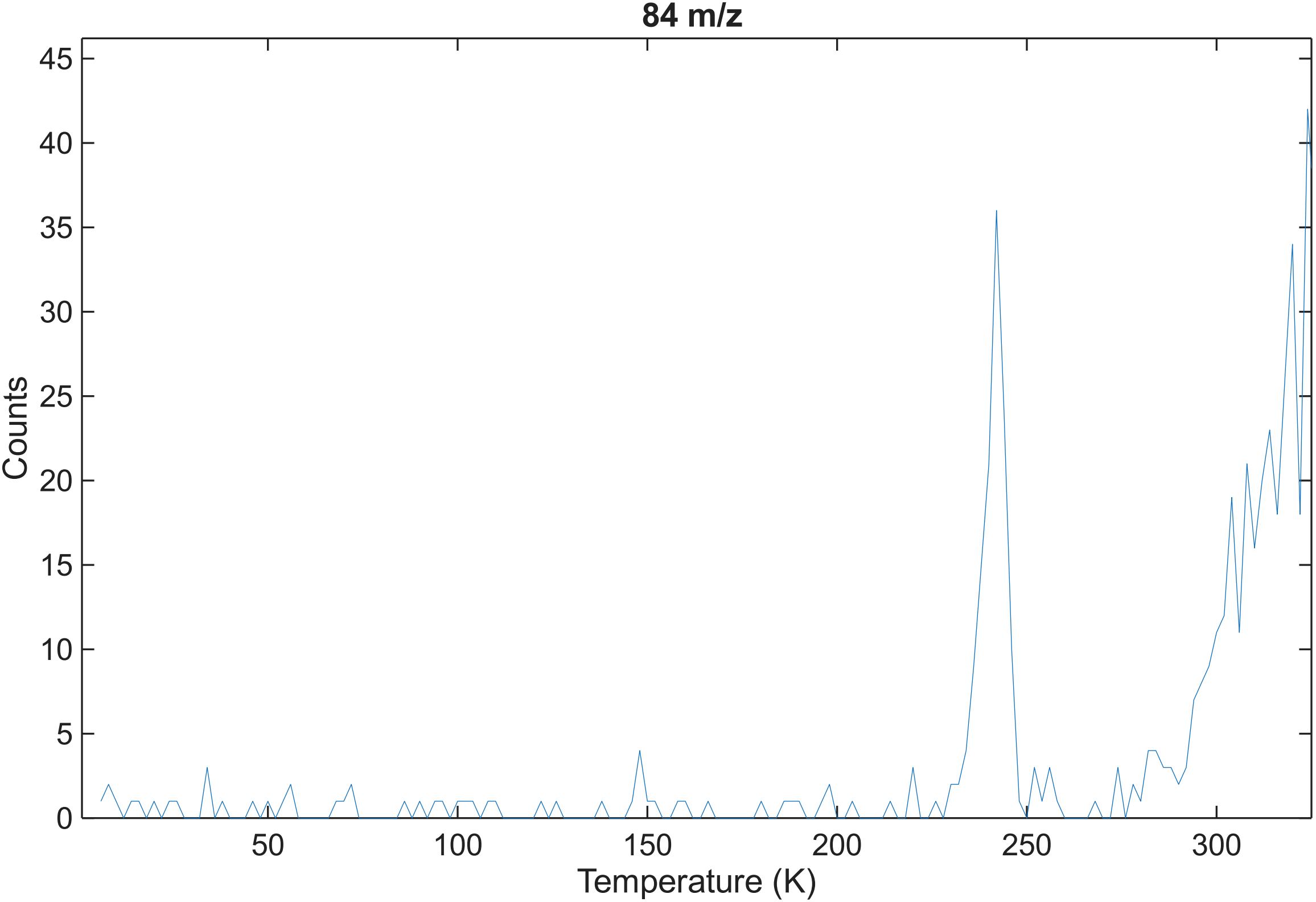

79 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
70
80
90
50
100
150
200
250
300

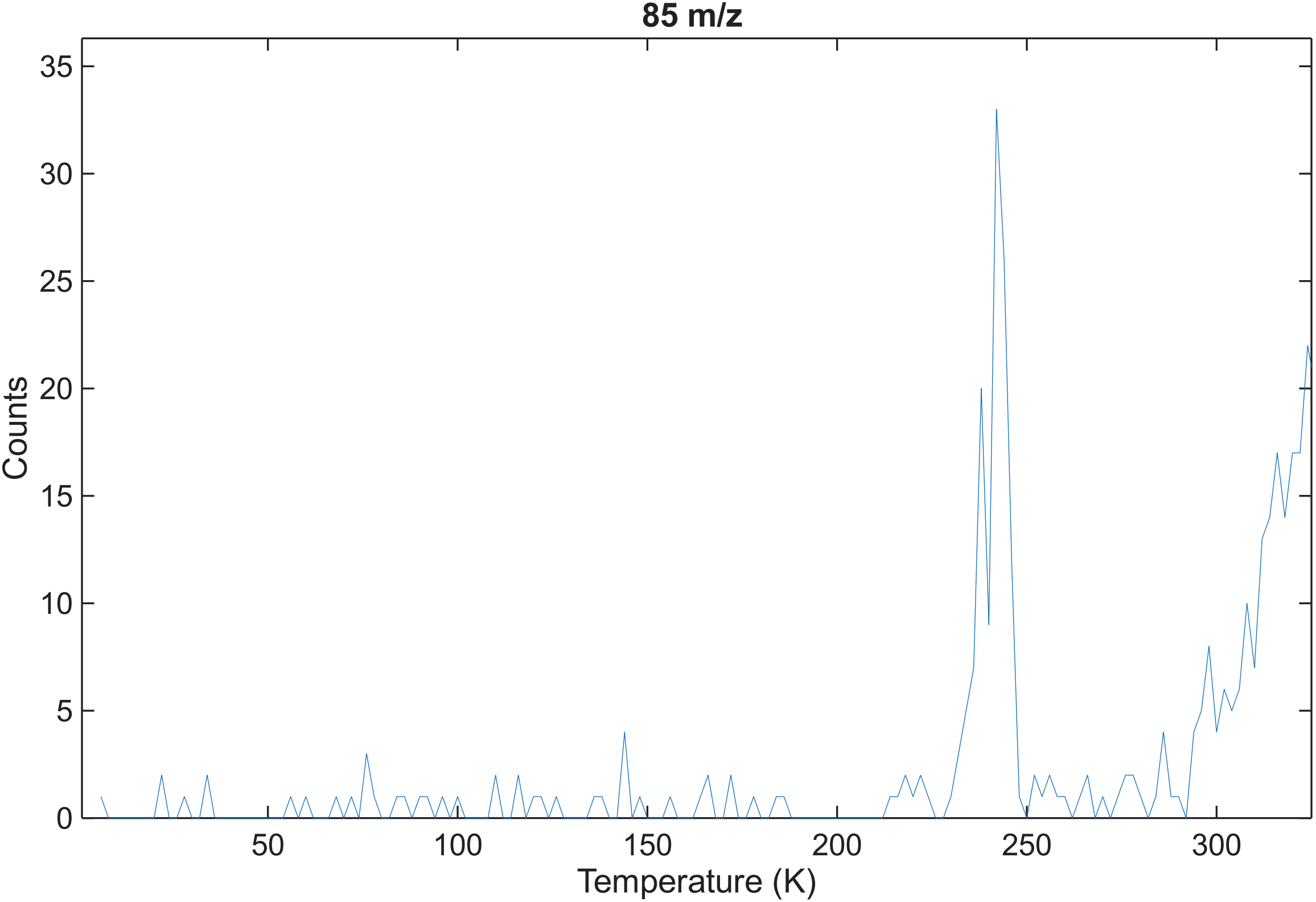

80 m/z
900
800
700
600
500
400
300
200
100
0
Counts
50
100
150
200
250
300
Temperature (K)

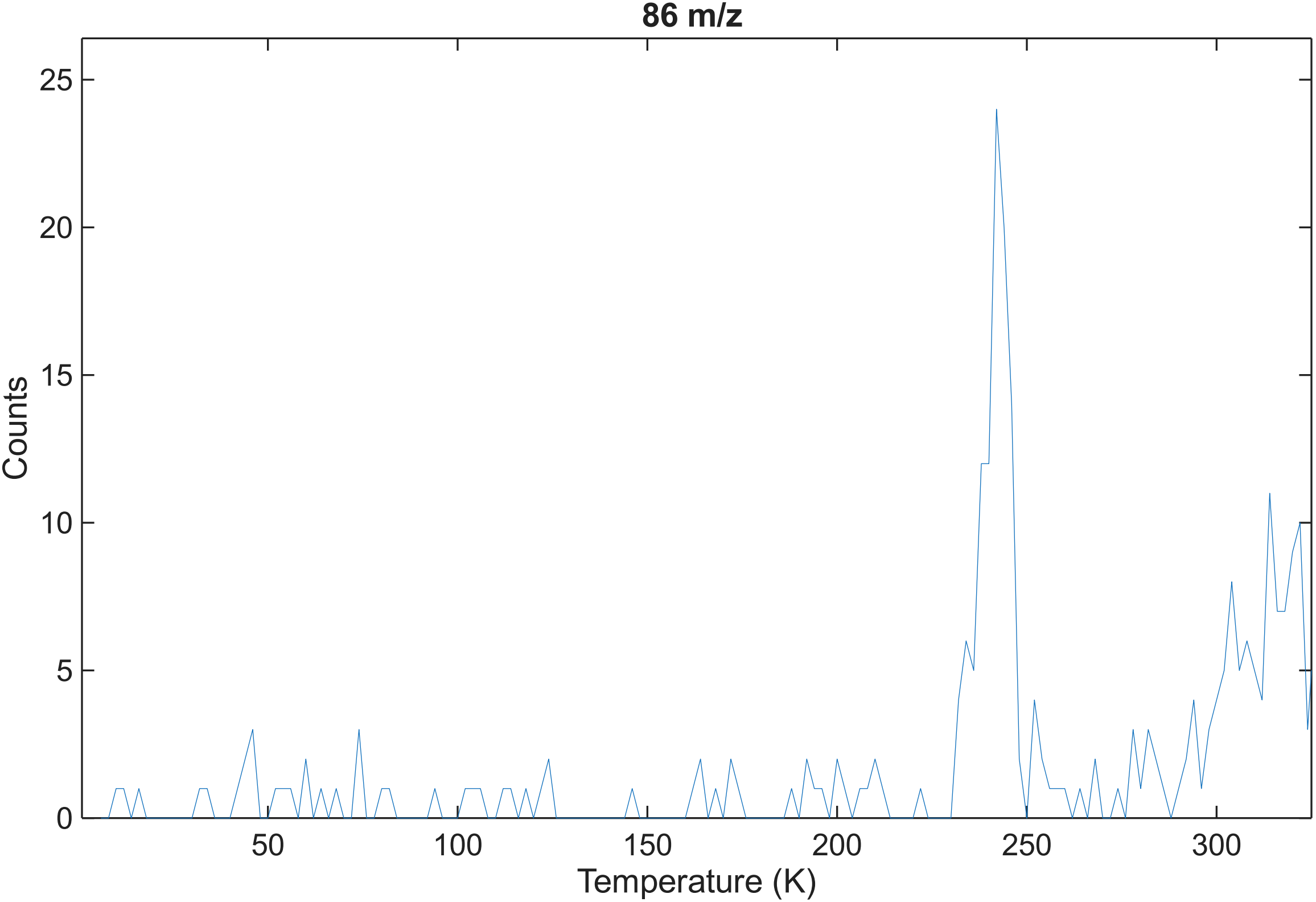

81 m/z
Counts
Temperature (K)
0
50
100
150
200
250
50
100
150
200
250
300


82 m/z
Counts
Temperature (K)
0
50
100
150
200
50
100
150
200
250
300


83 m/z
160
140
120
100
80
60
40
20
0
Counts
50
100
150
200
250
300
Temperature (K)


84 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300


85 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
50
100
150
200
250
300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Counts
Temperature (K)
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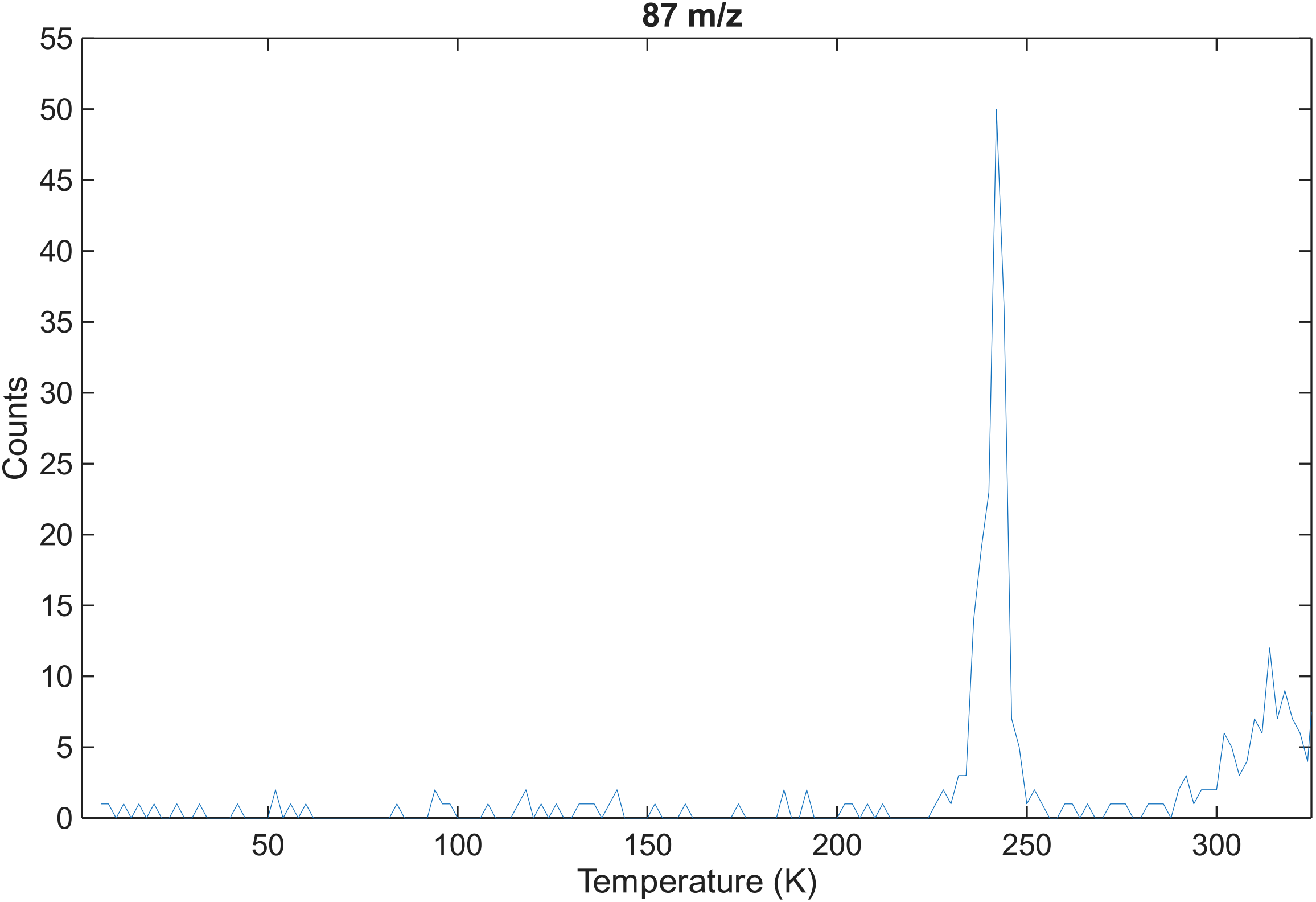
87 m/z
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Counts
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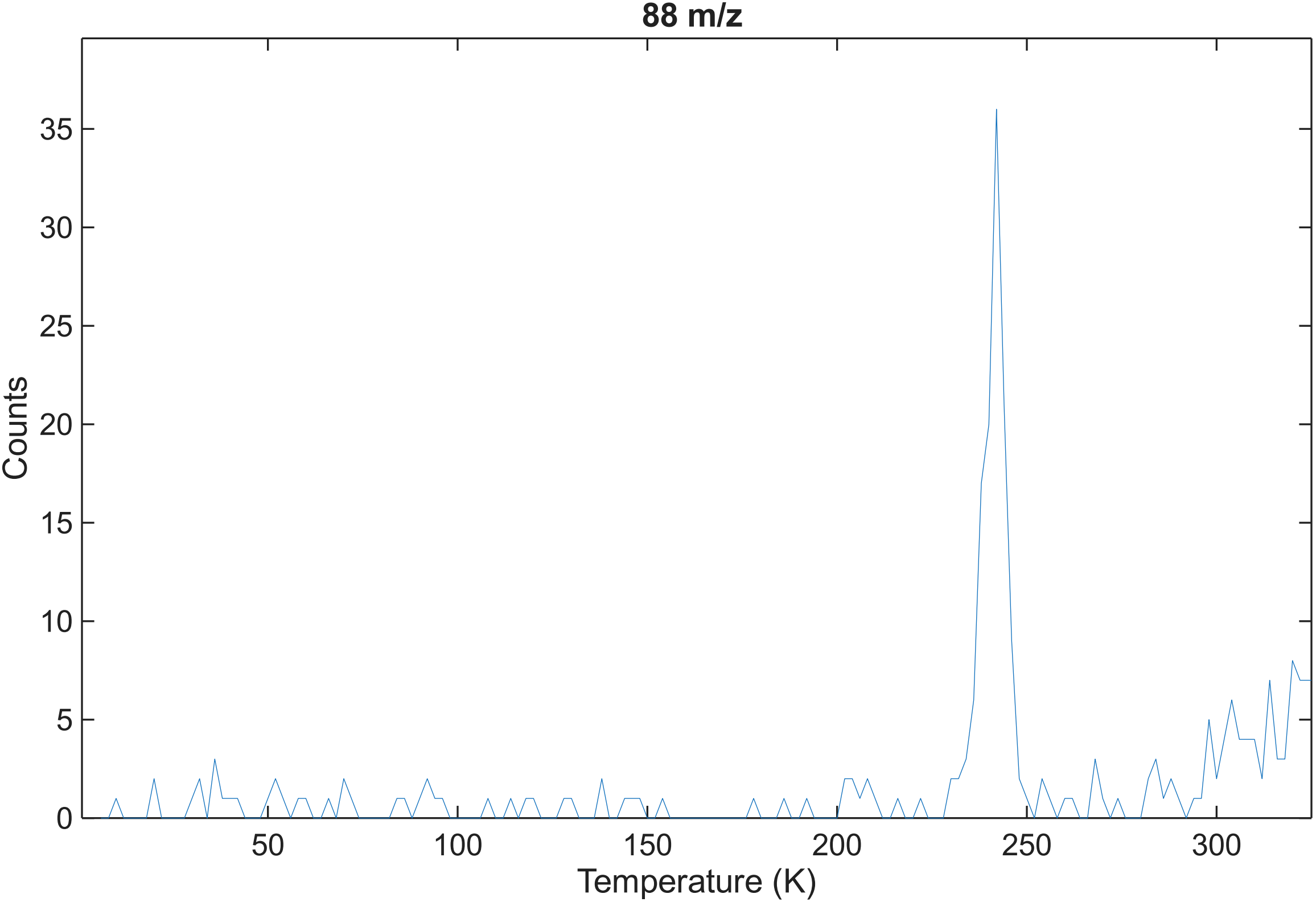
Temperature (K)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Temperature (K)
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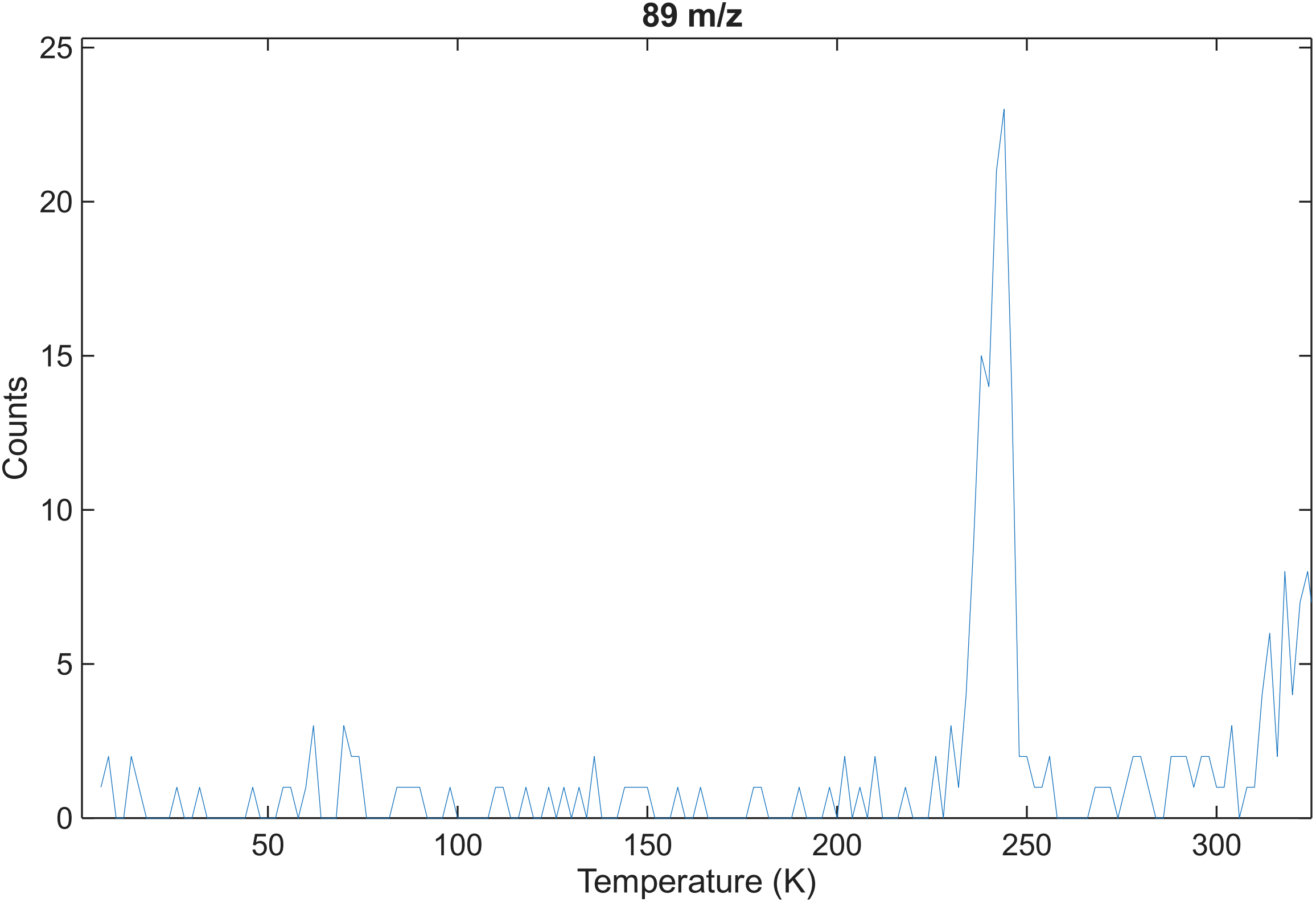
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Temperature (K)
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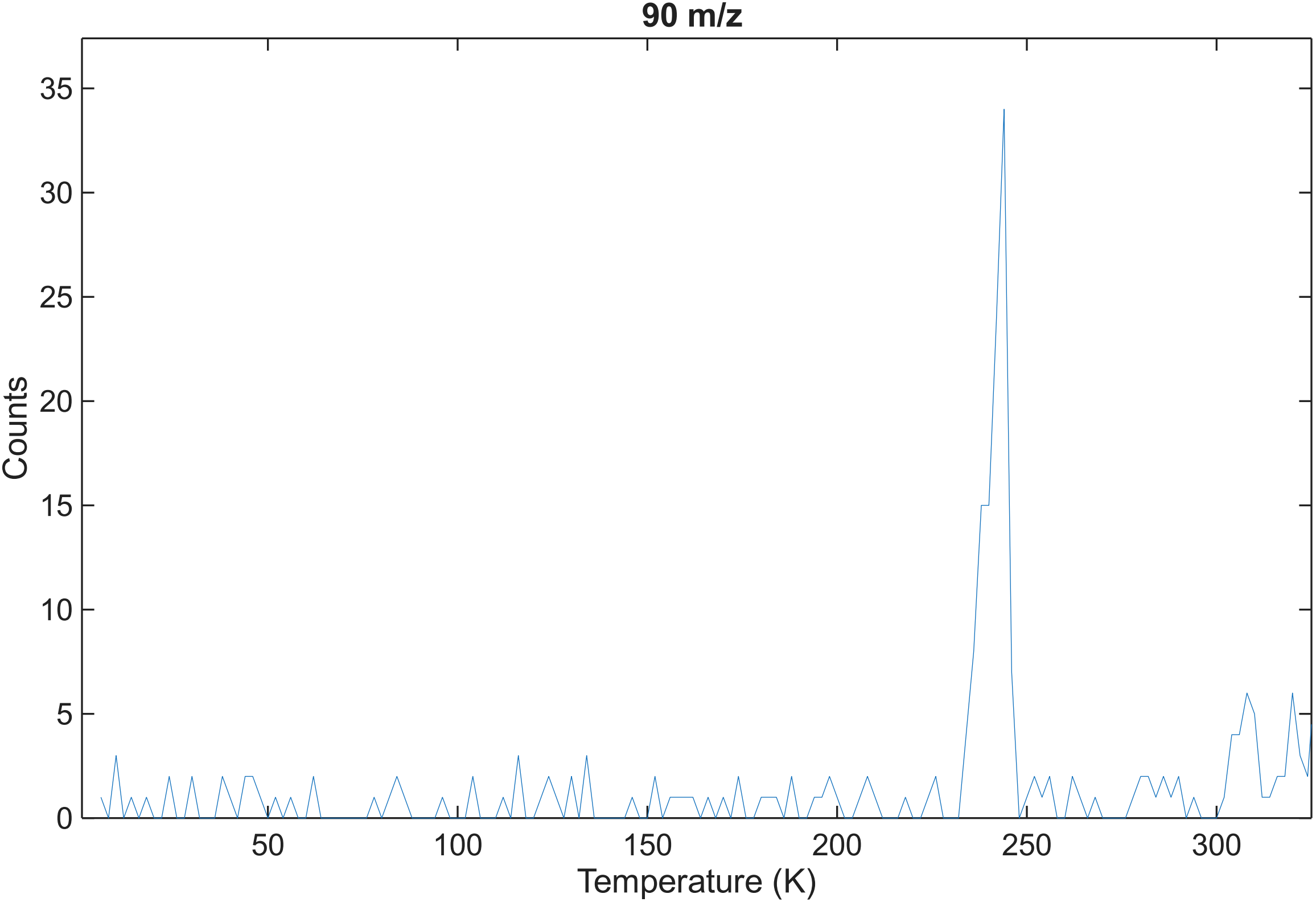
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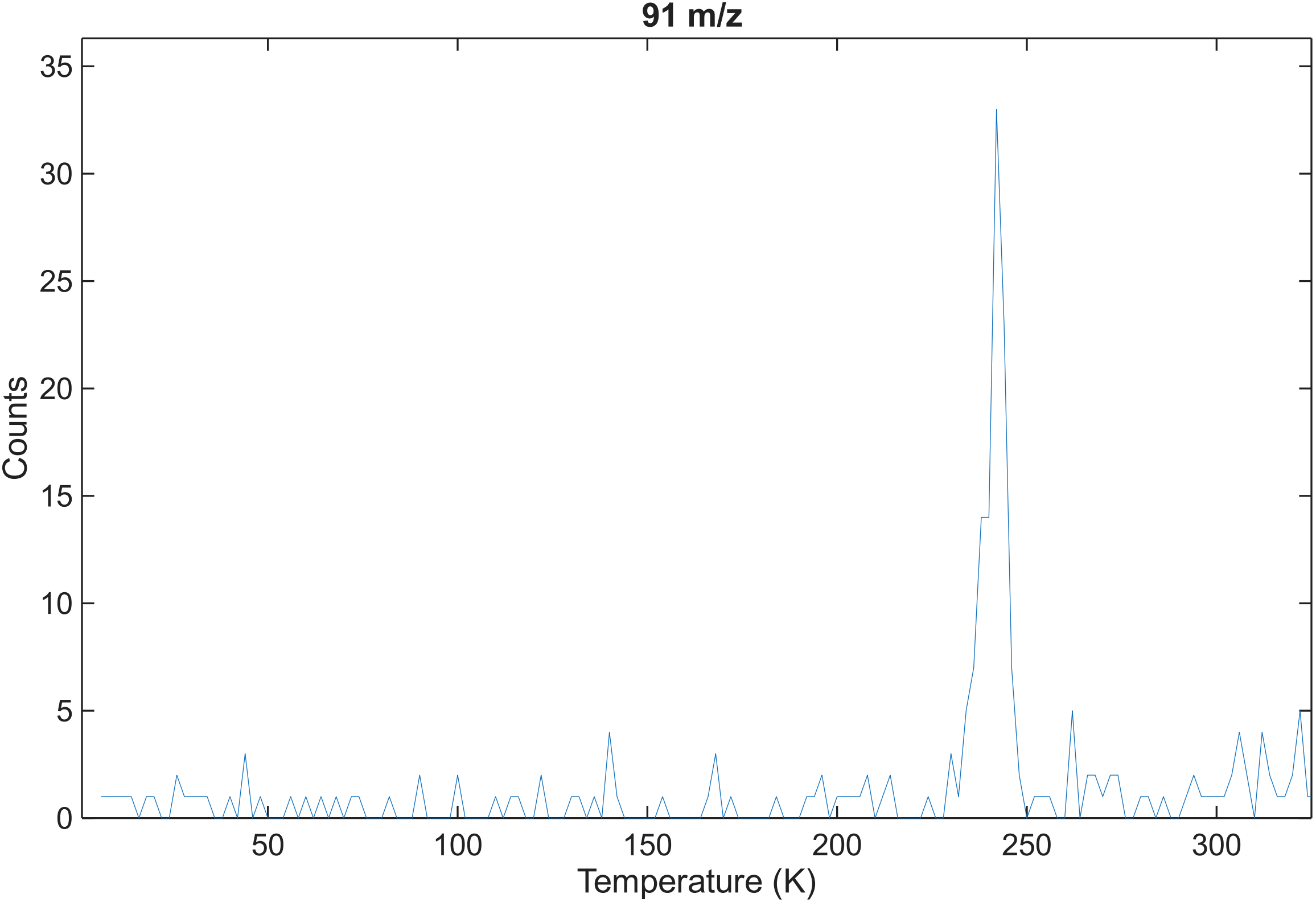
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Temperature (K)
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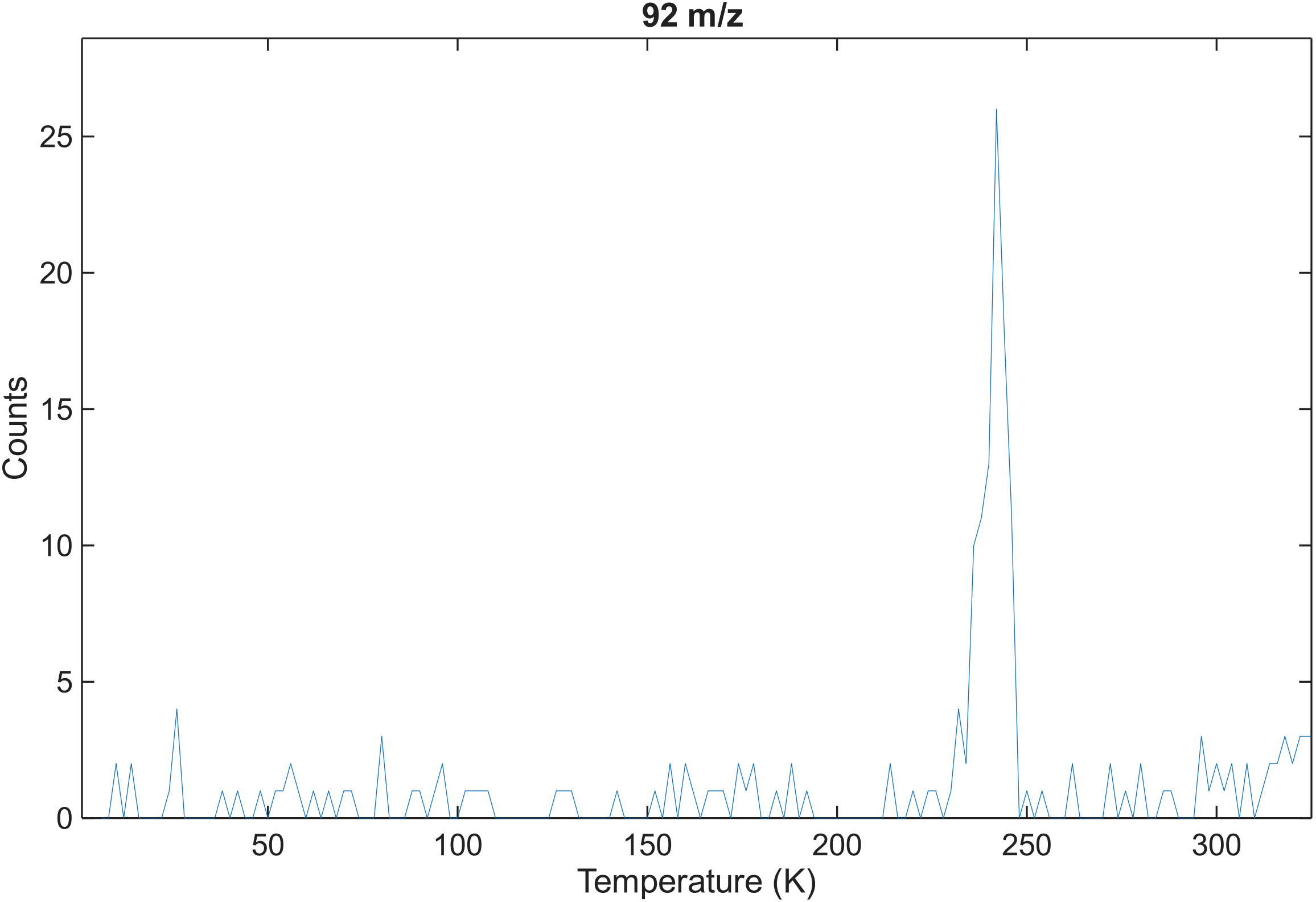
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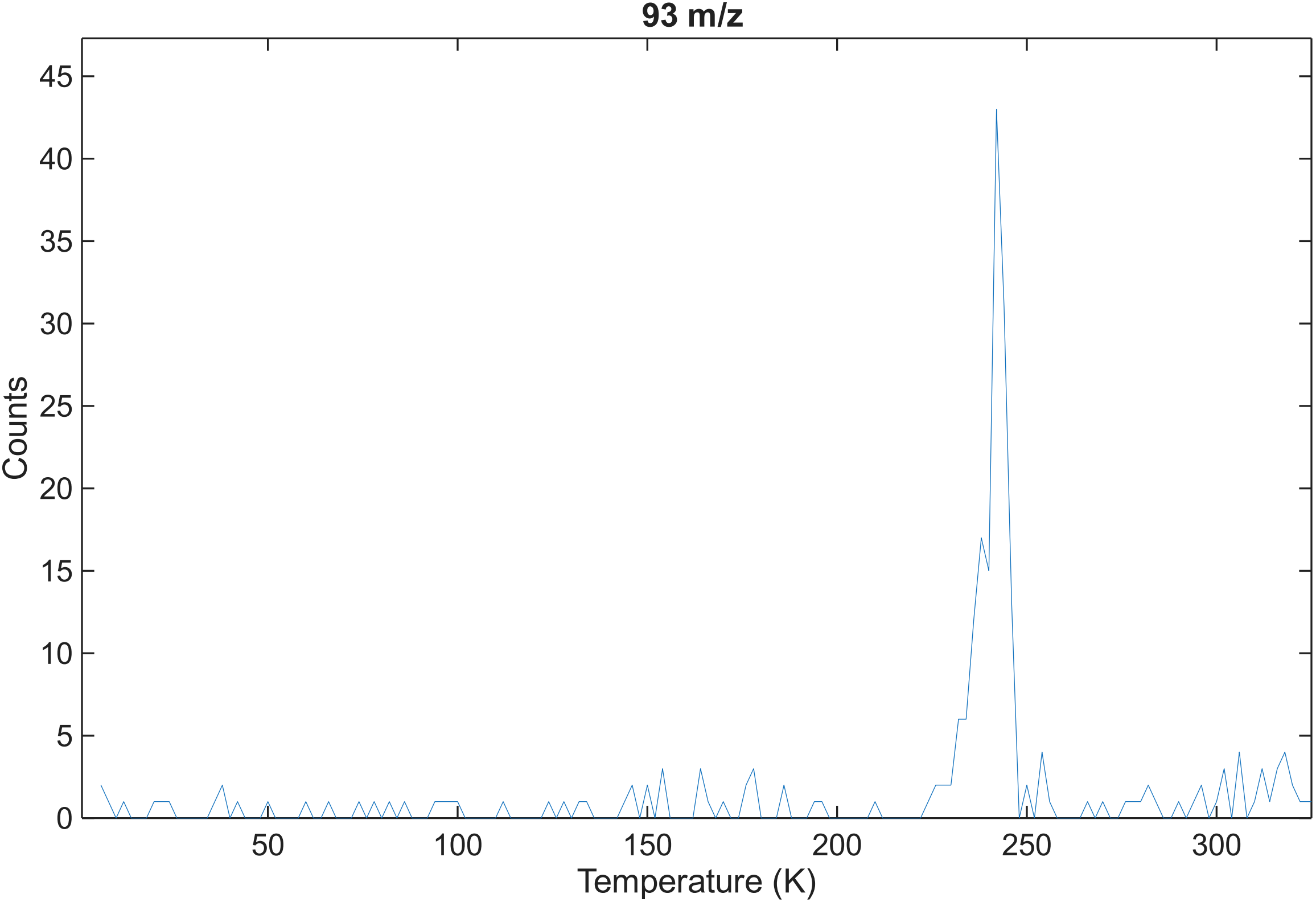
93 m/z
Counts
Temperature (K)
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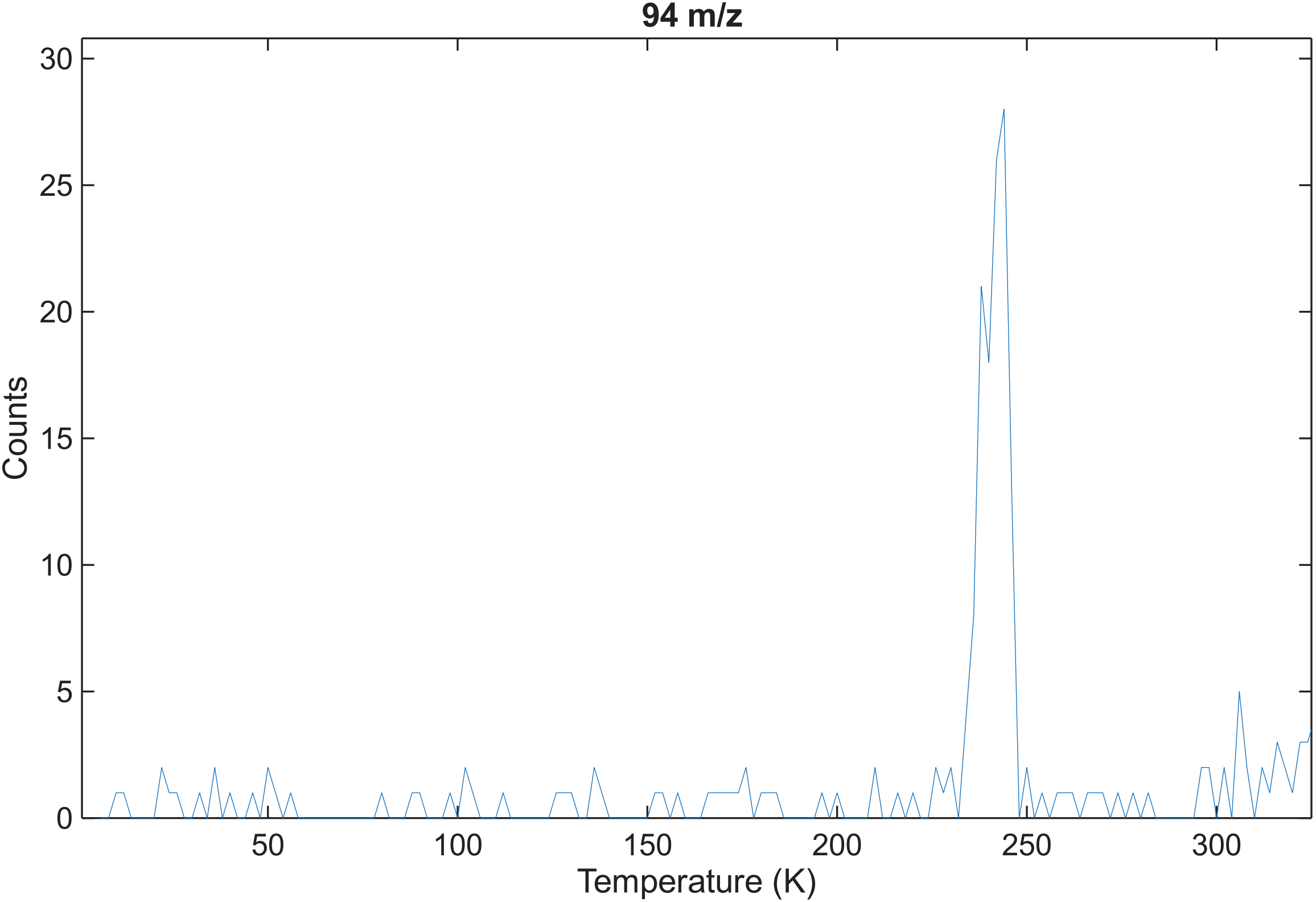
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Temperature (K)
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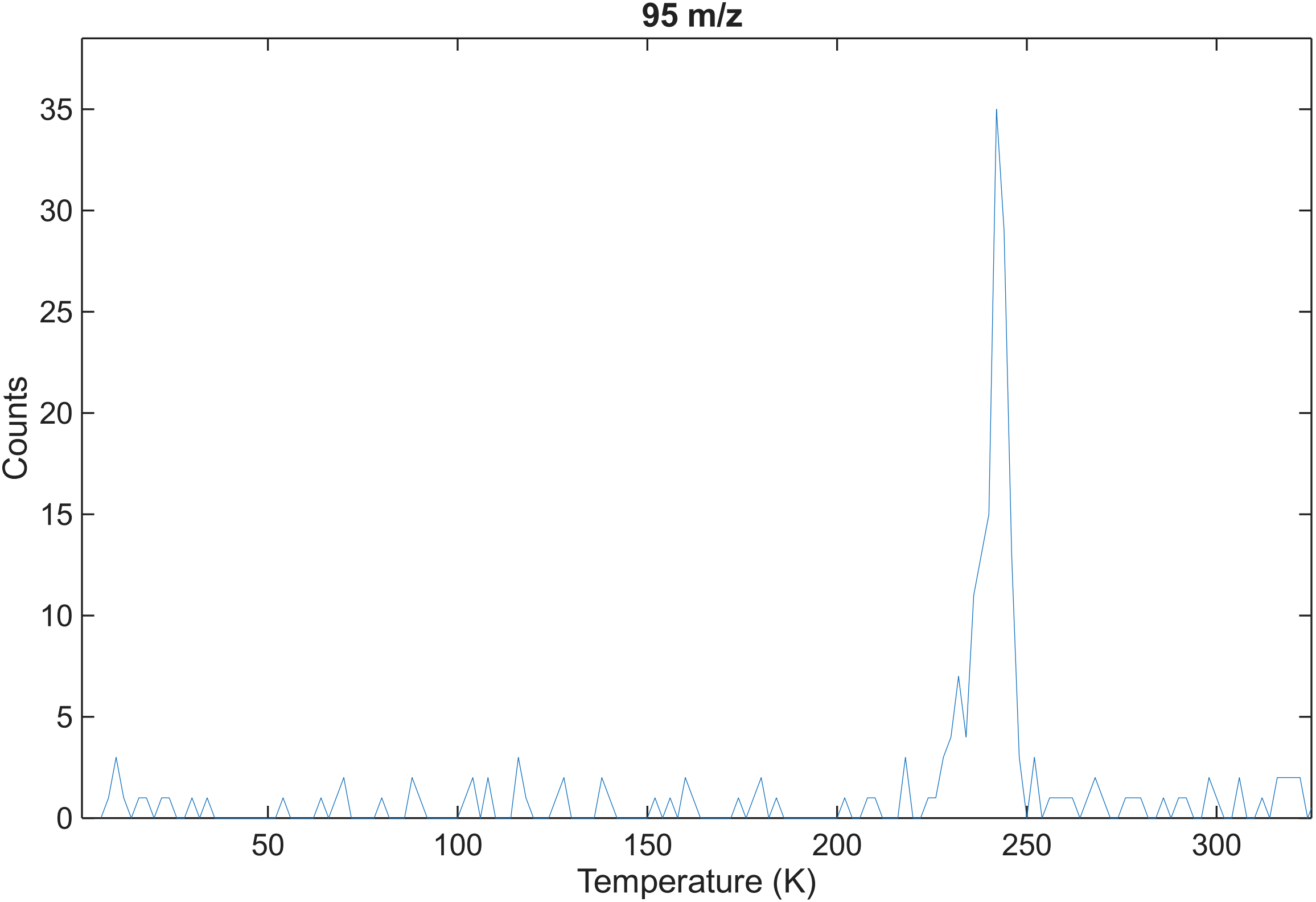
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Temperature (K)
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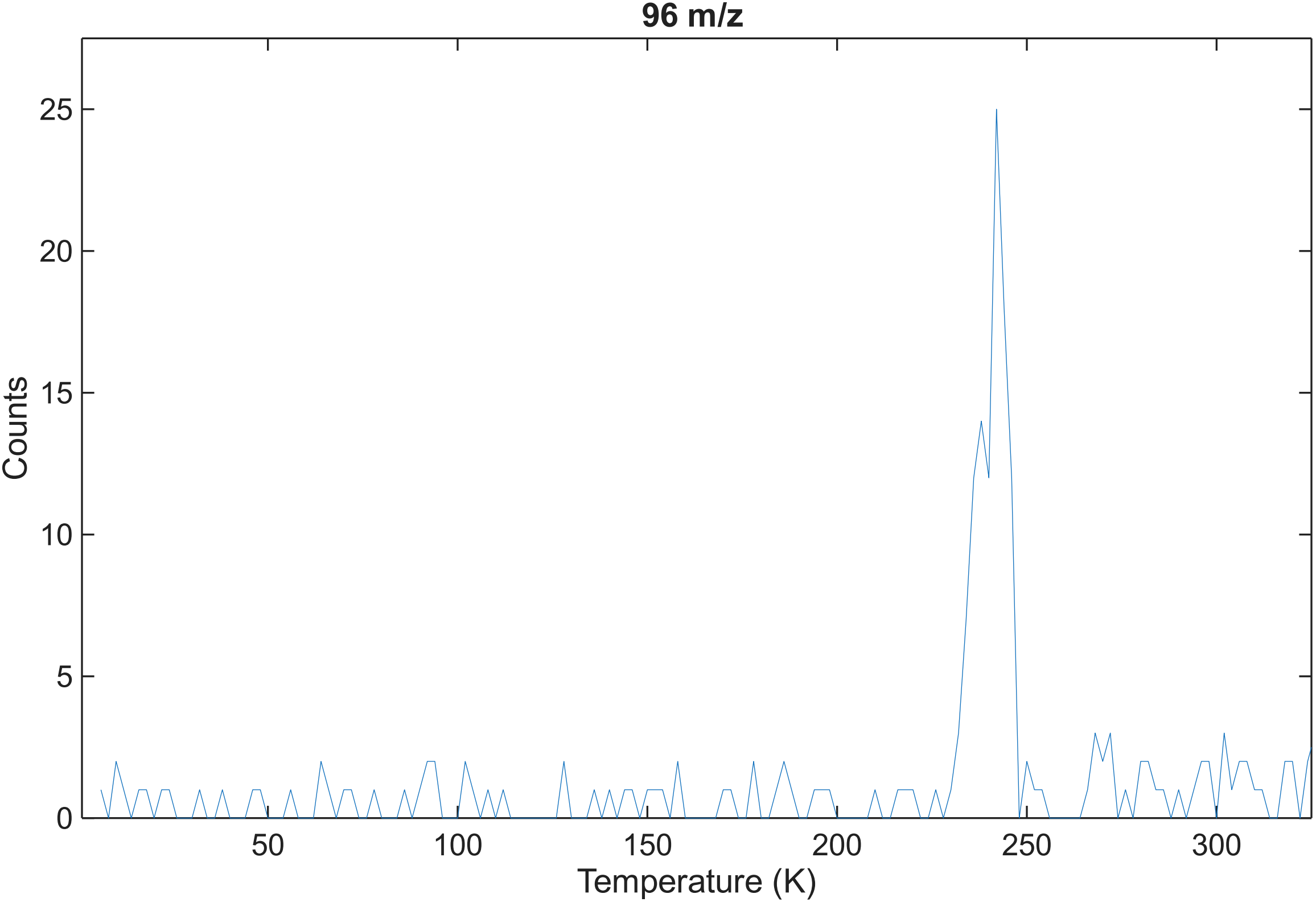
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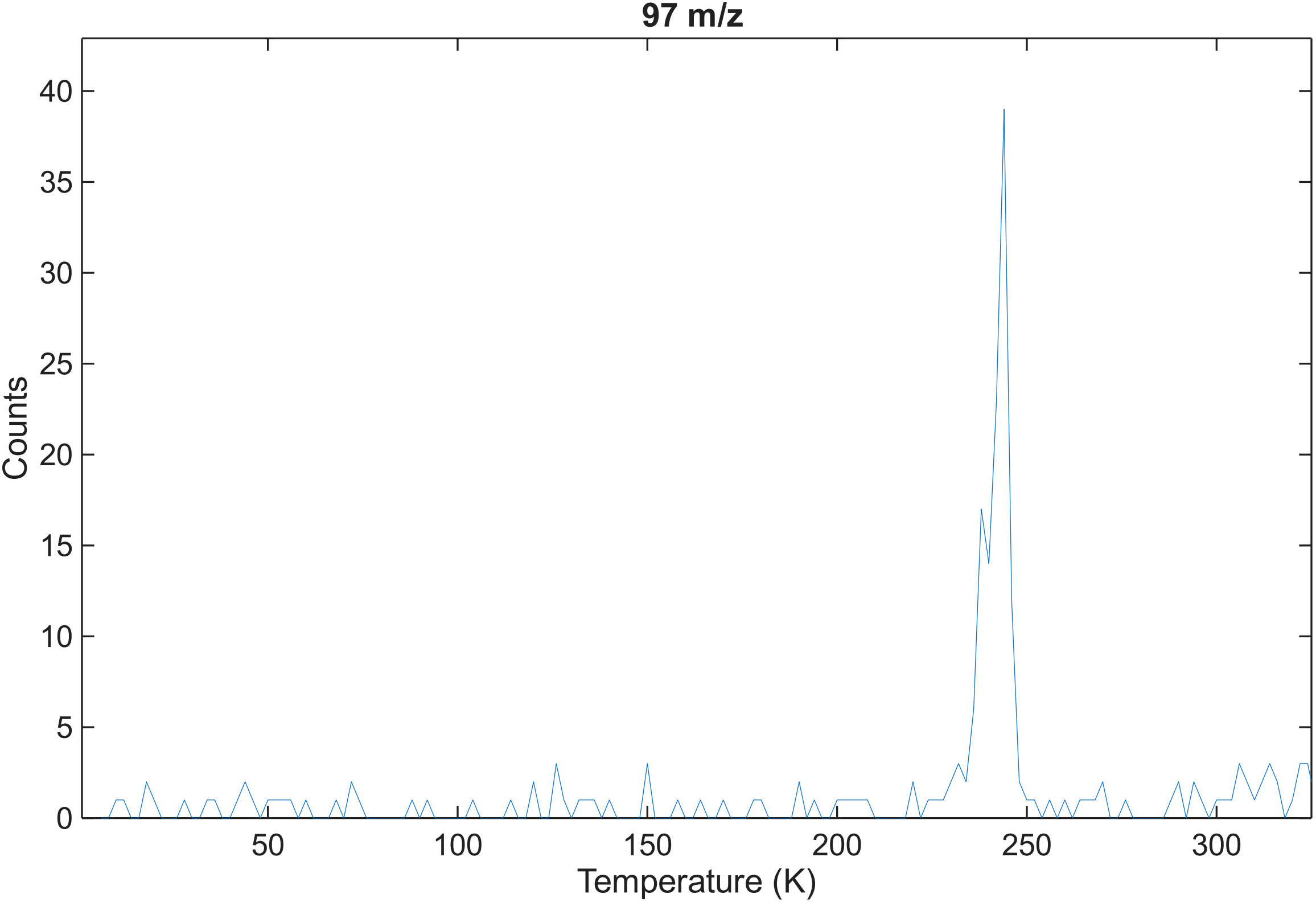
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Counts
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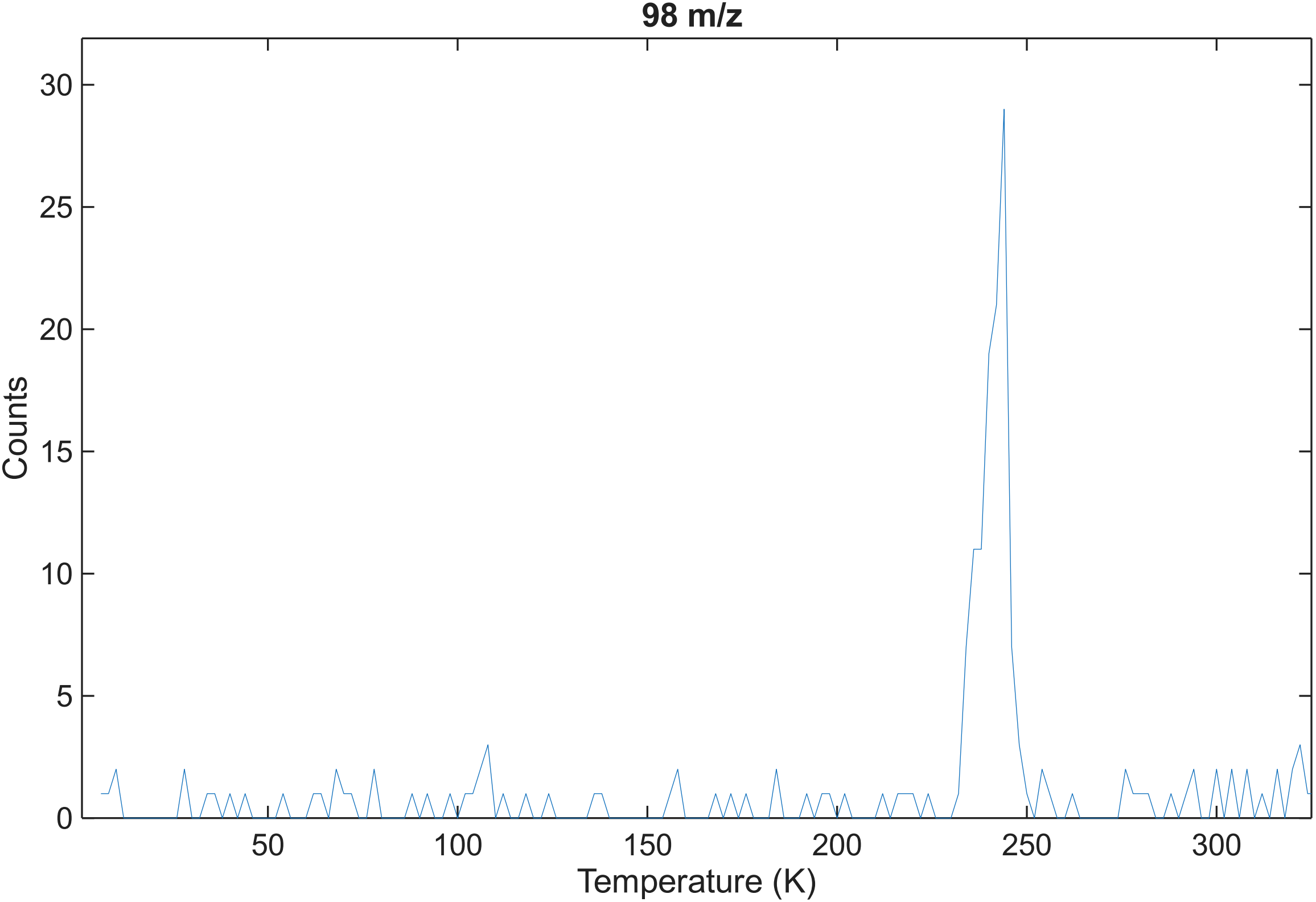
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Temperature (K)
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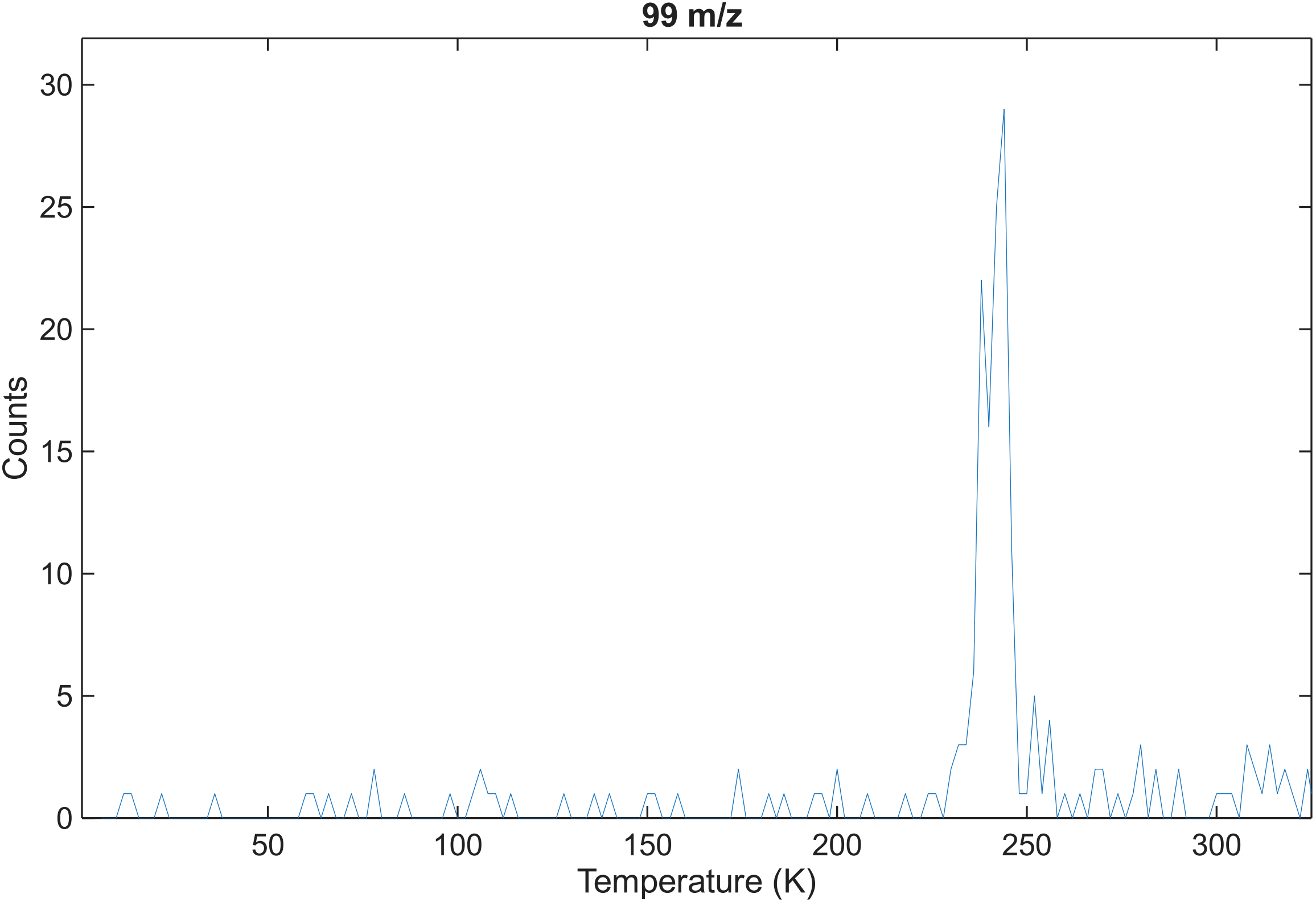
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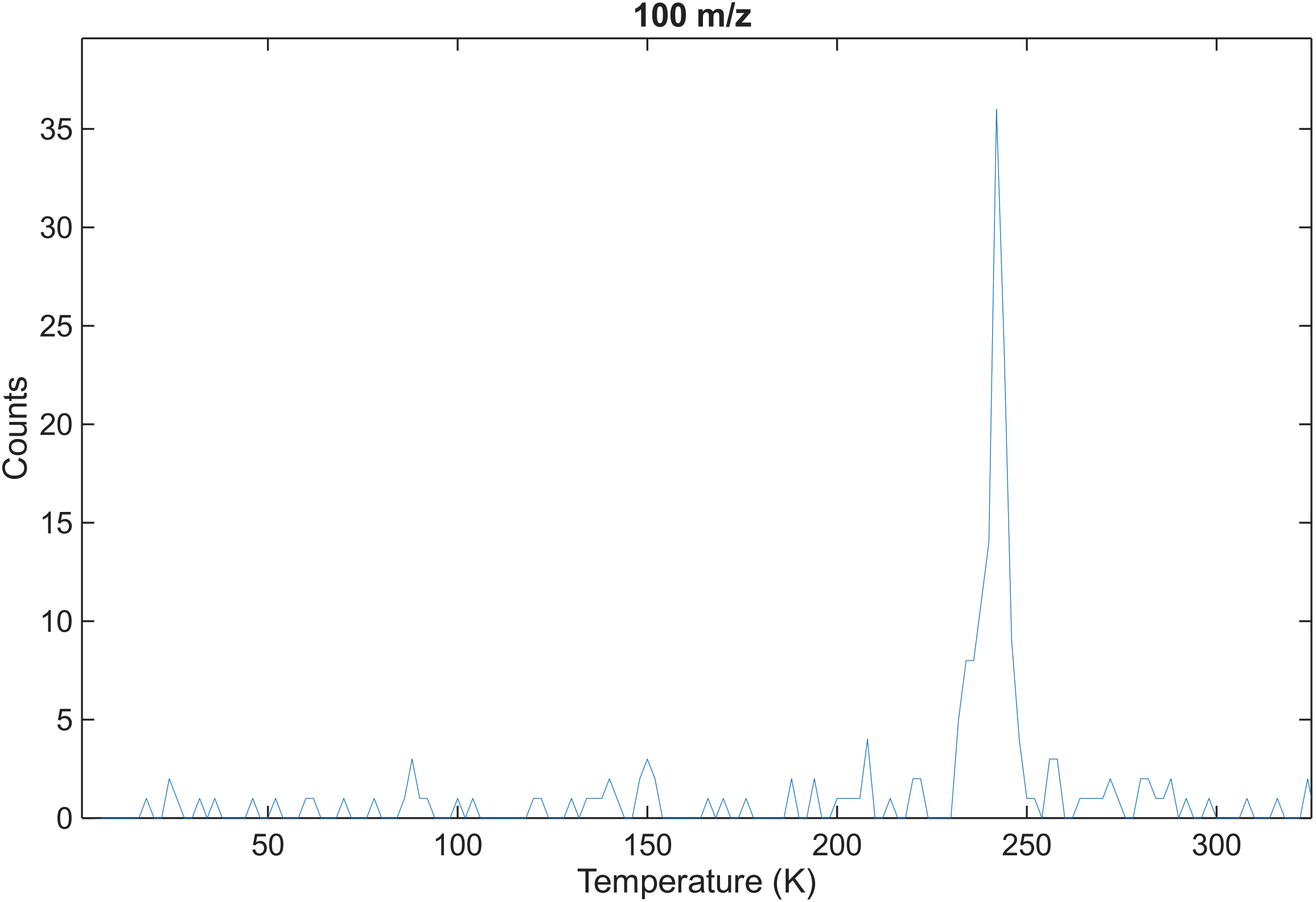
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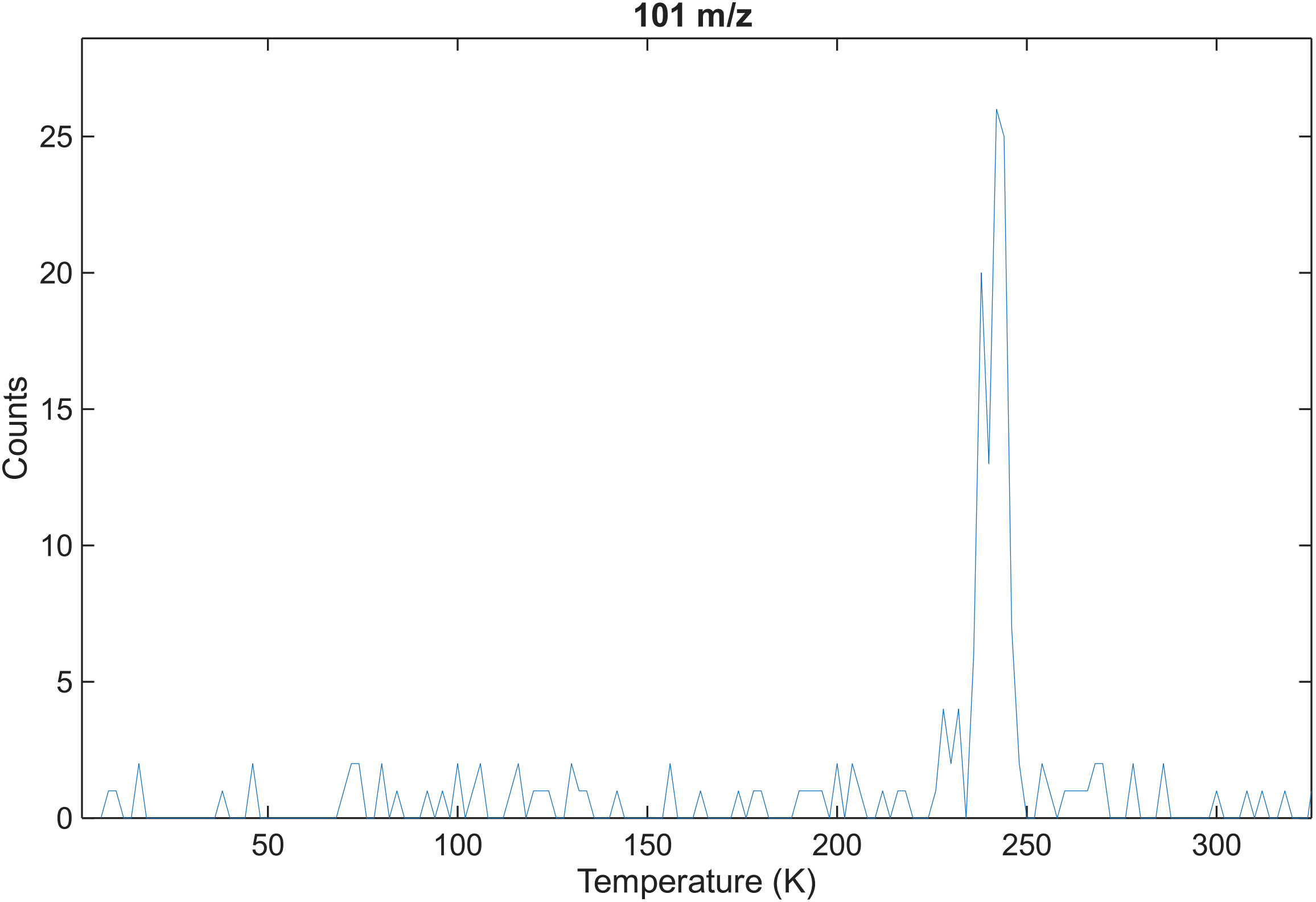
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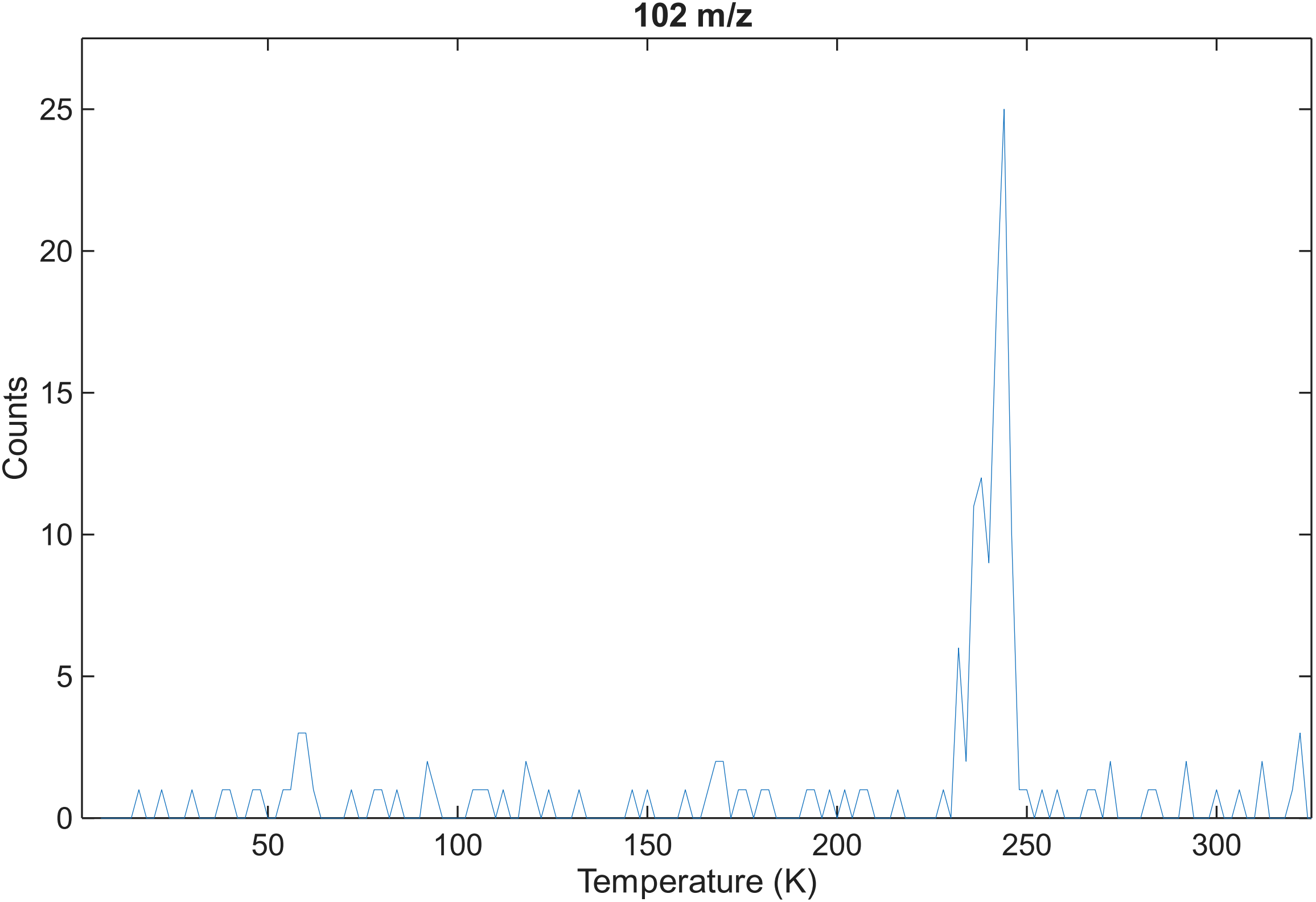
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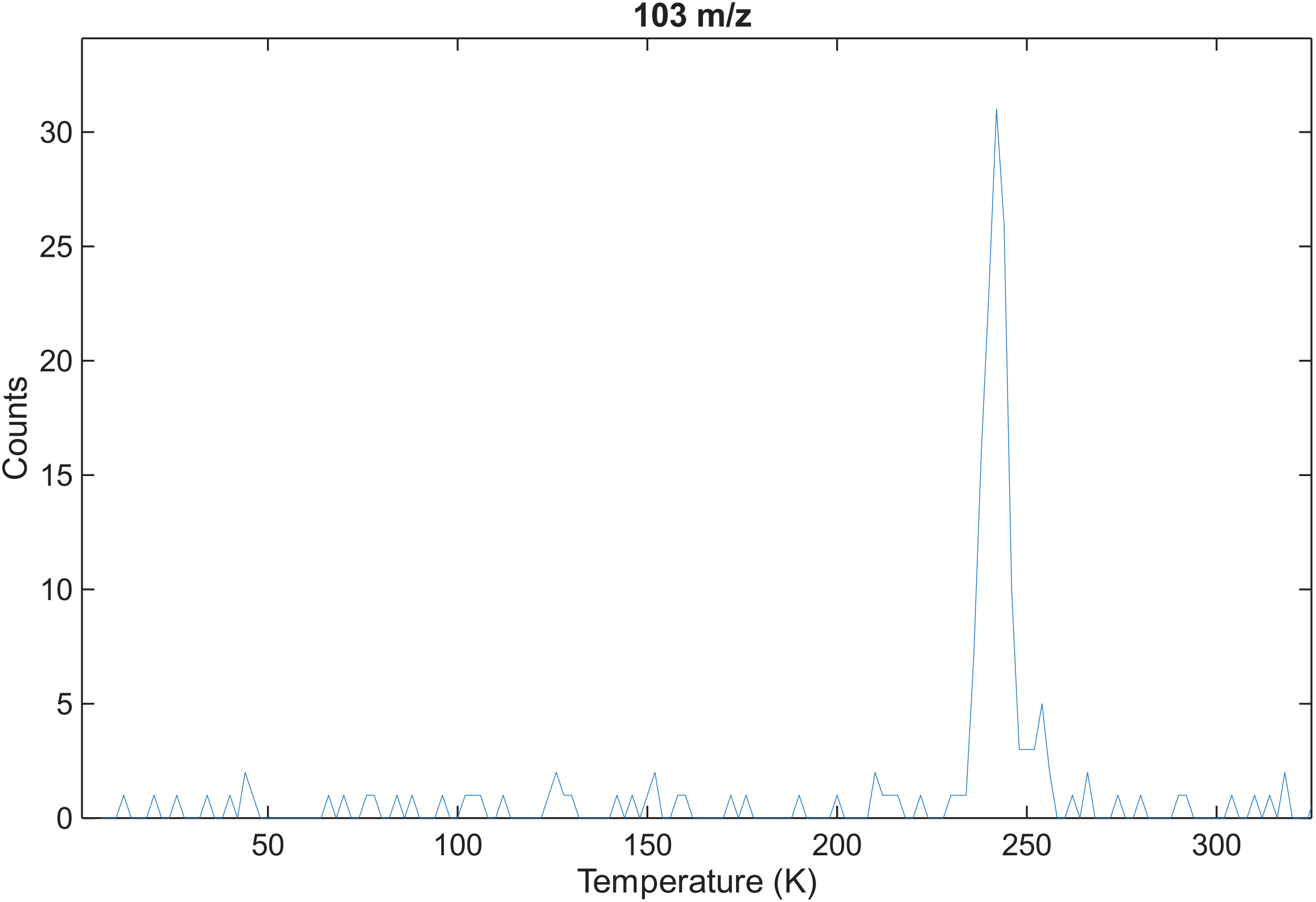
Temperature (K)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Temperature (K)
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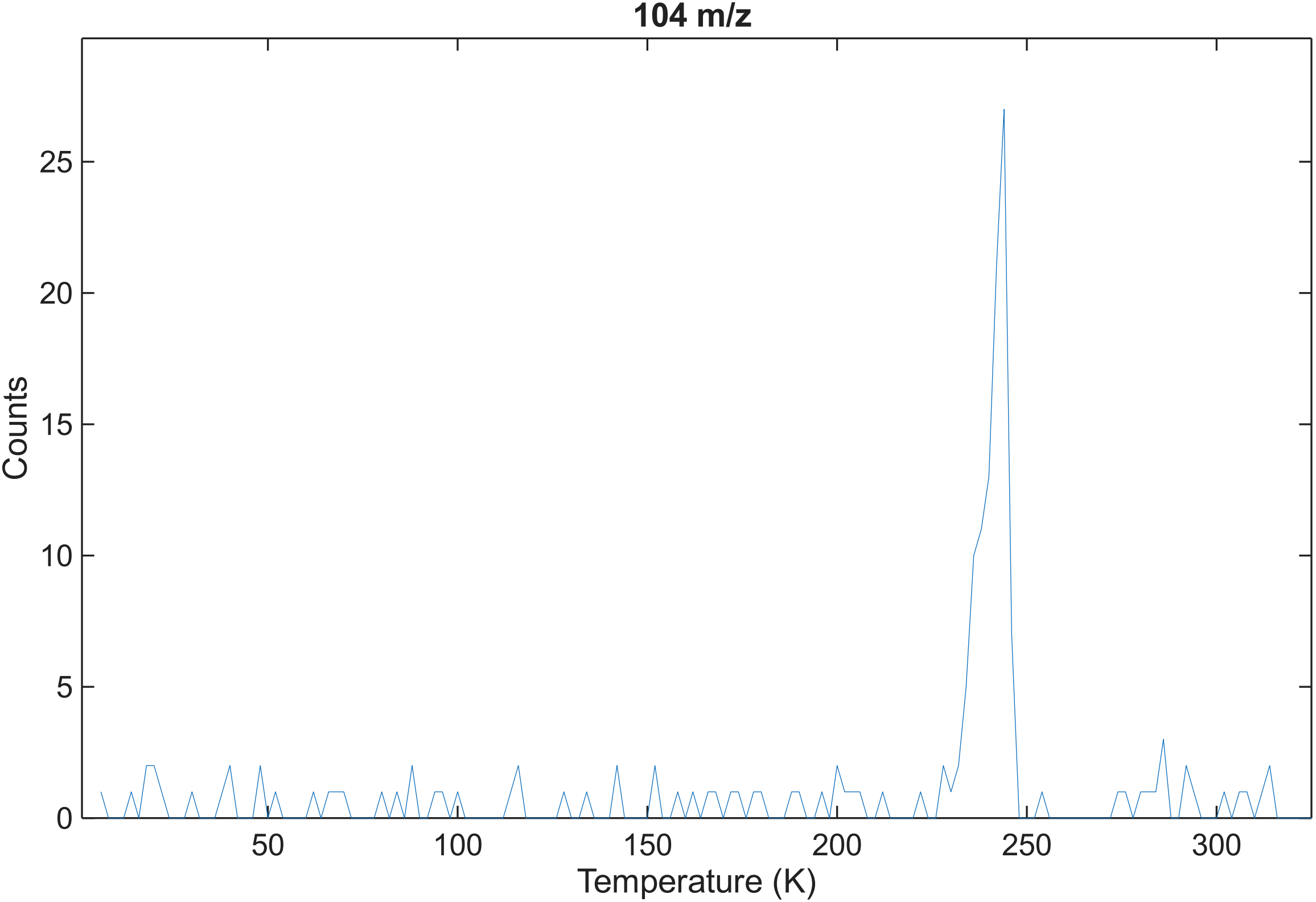
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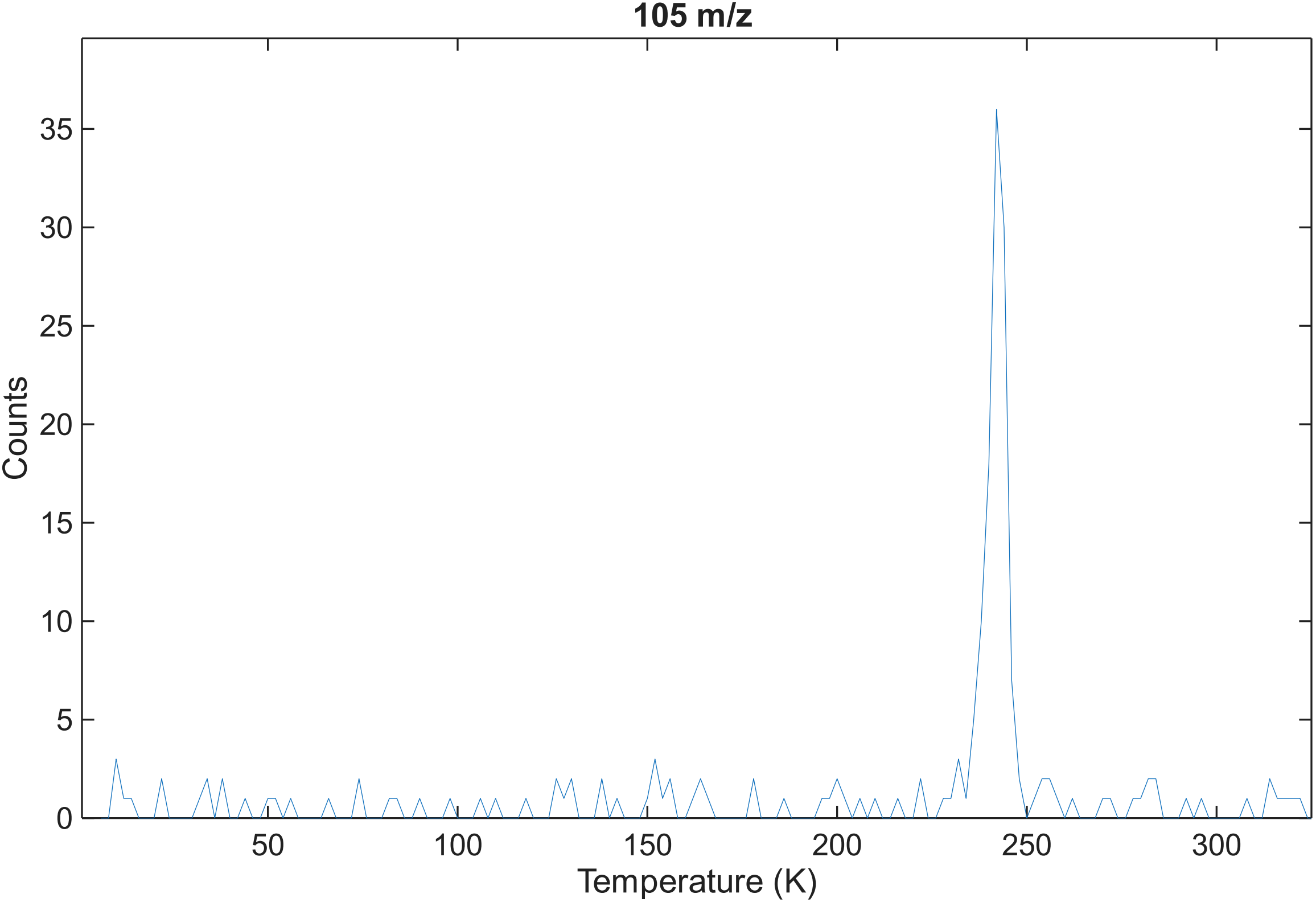
Temperature (K)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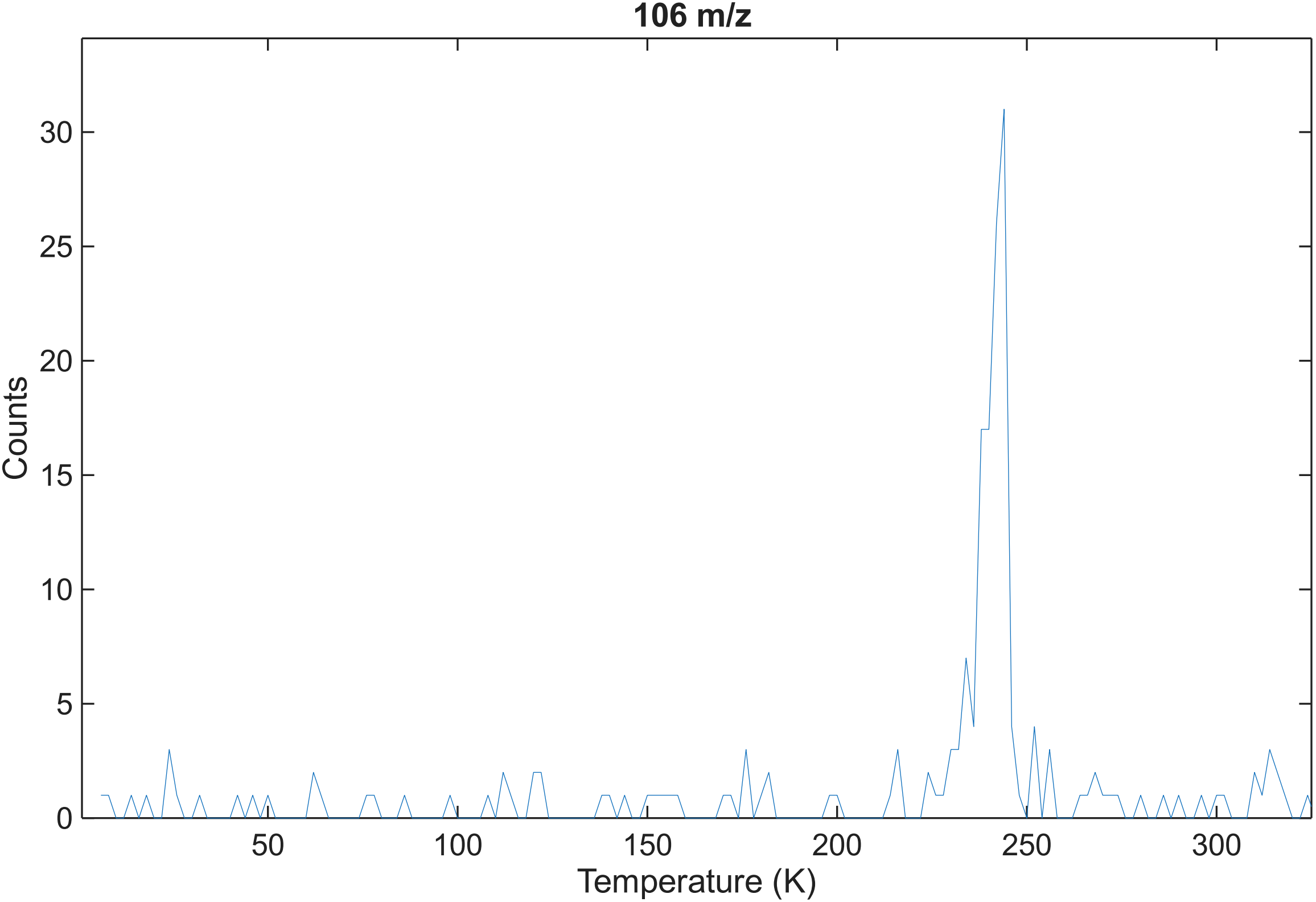
106 m/z
Counts
Temperature (K)
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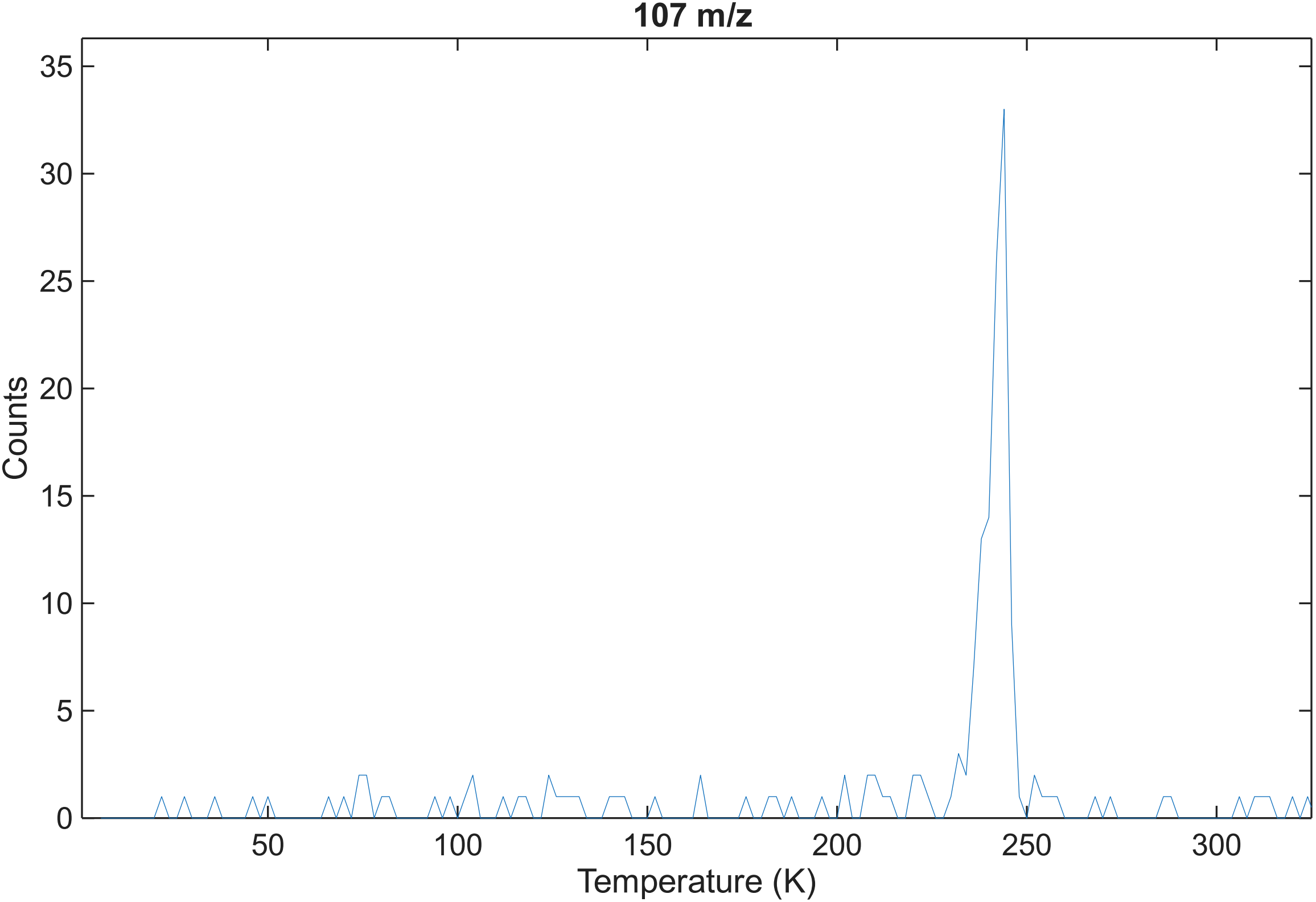
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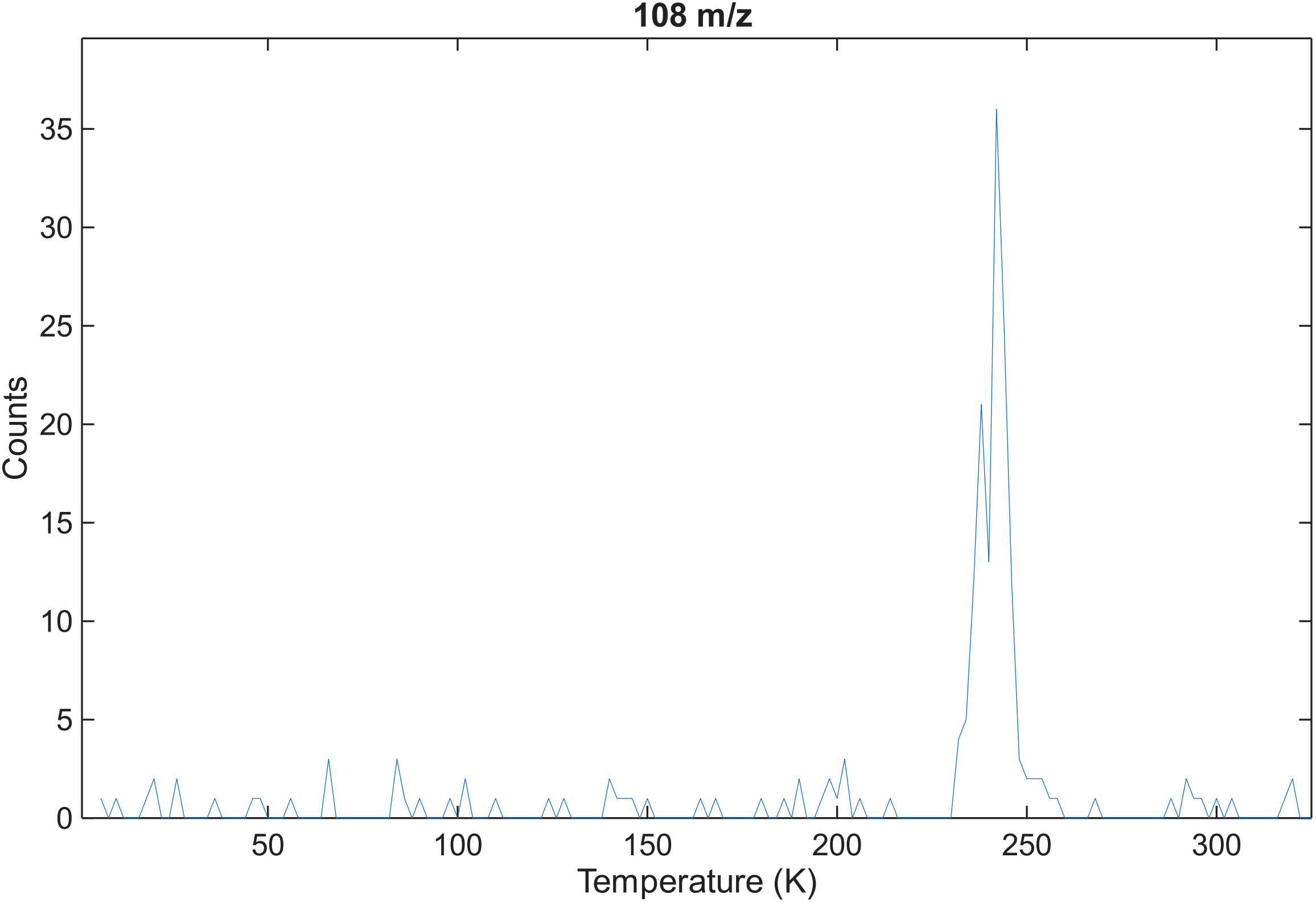
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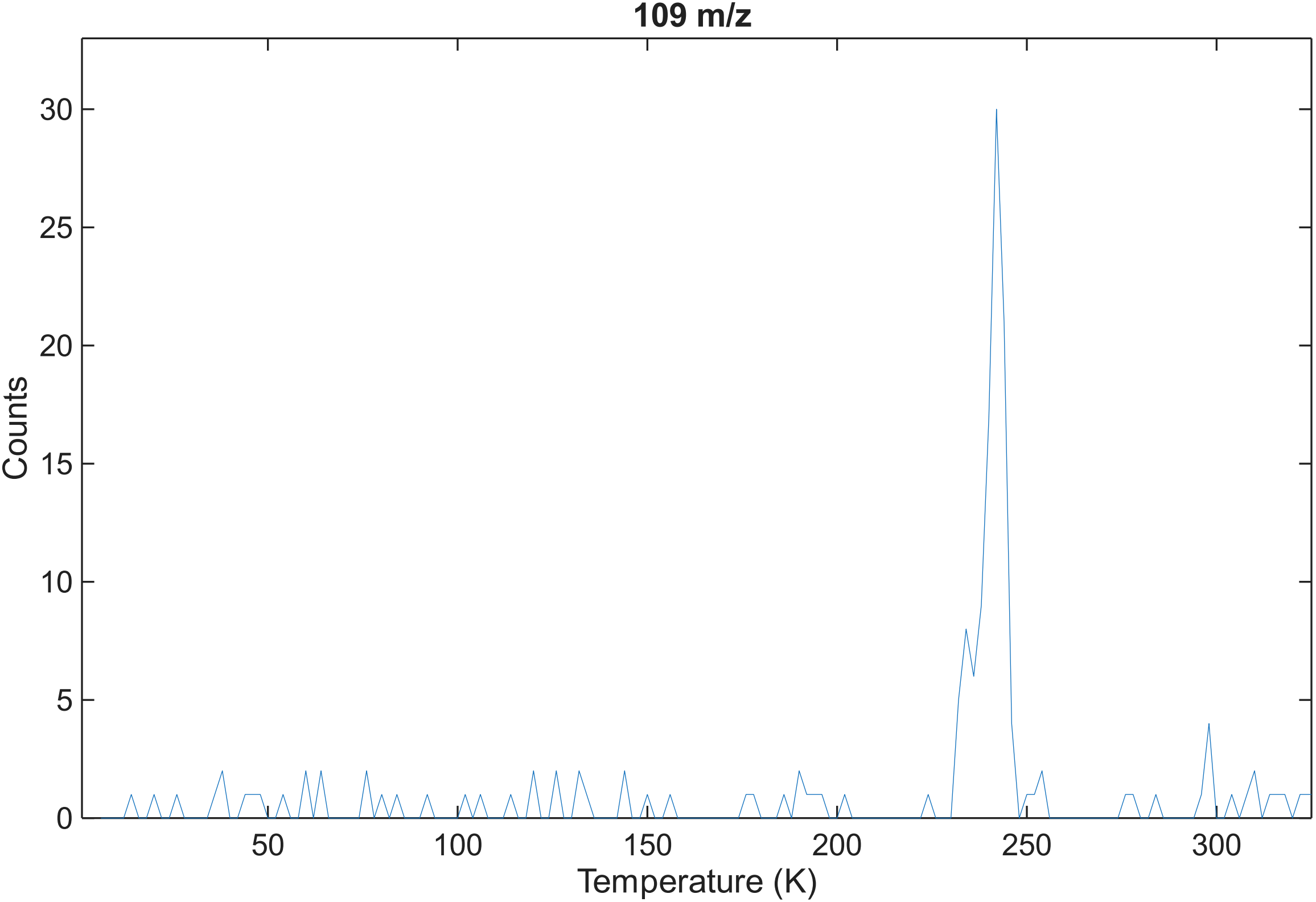
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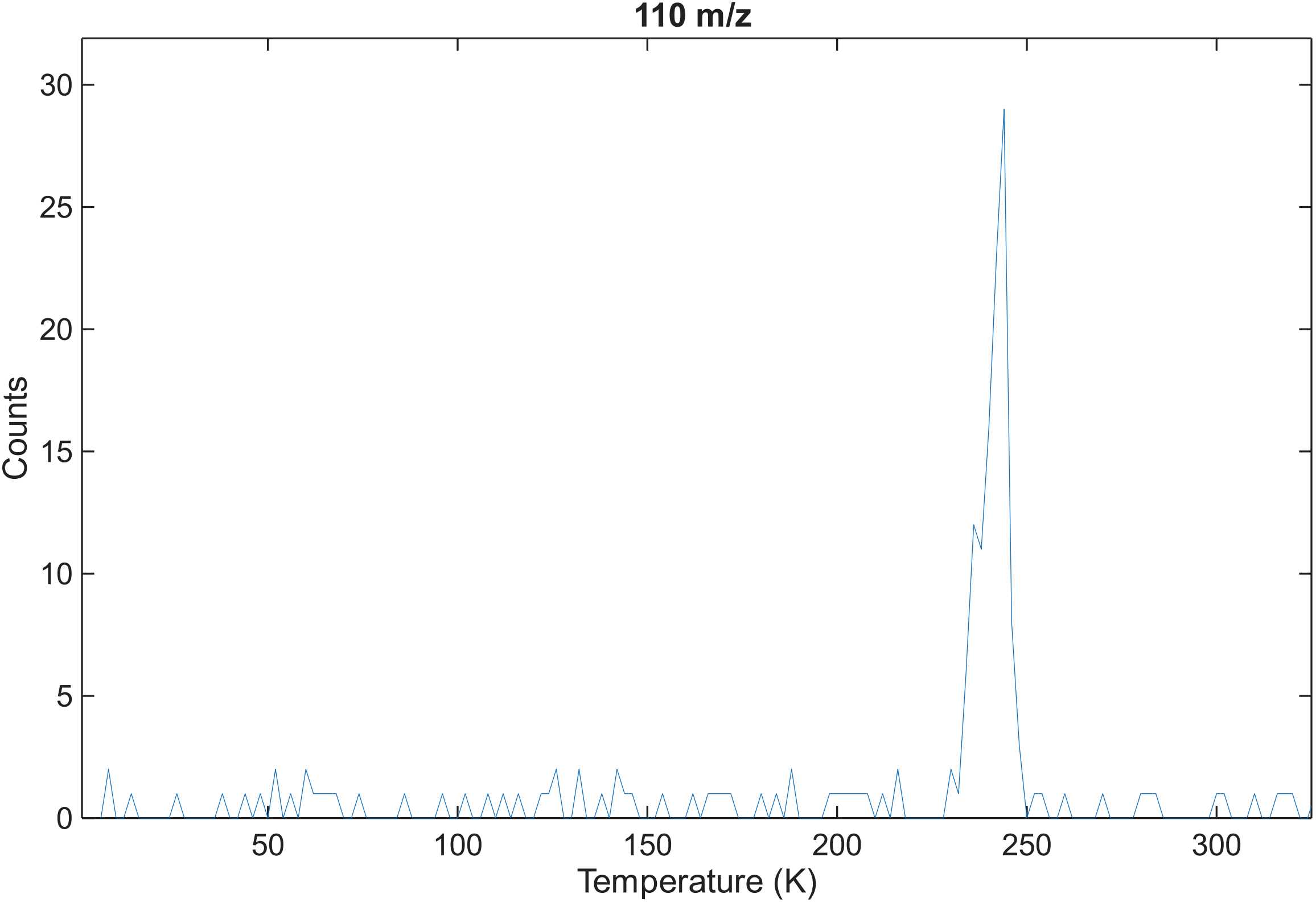
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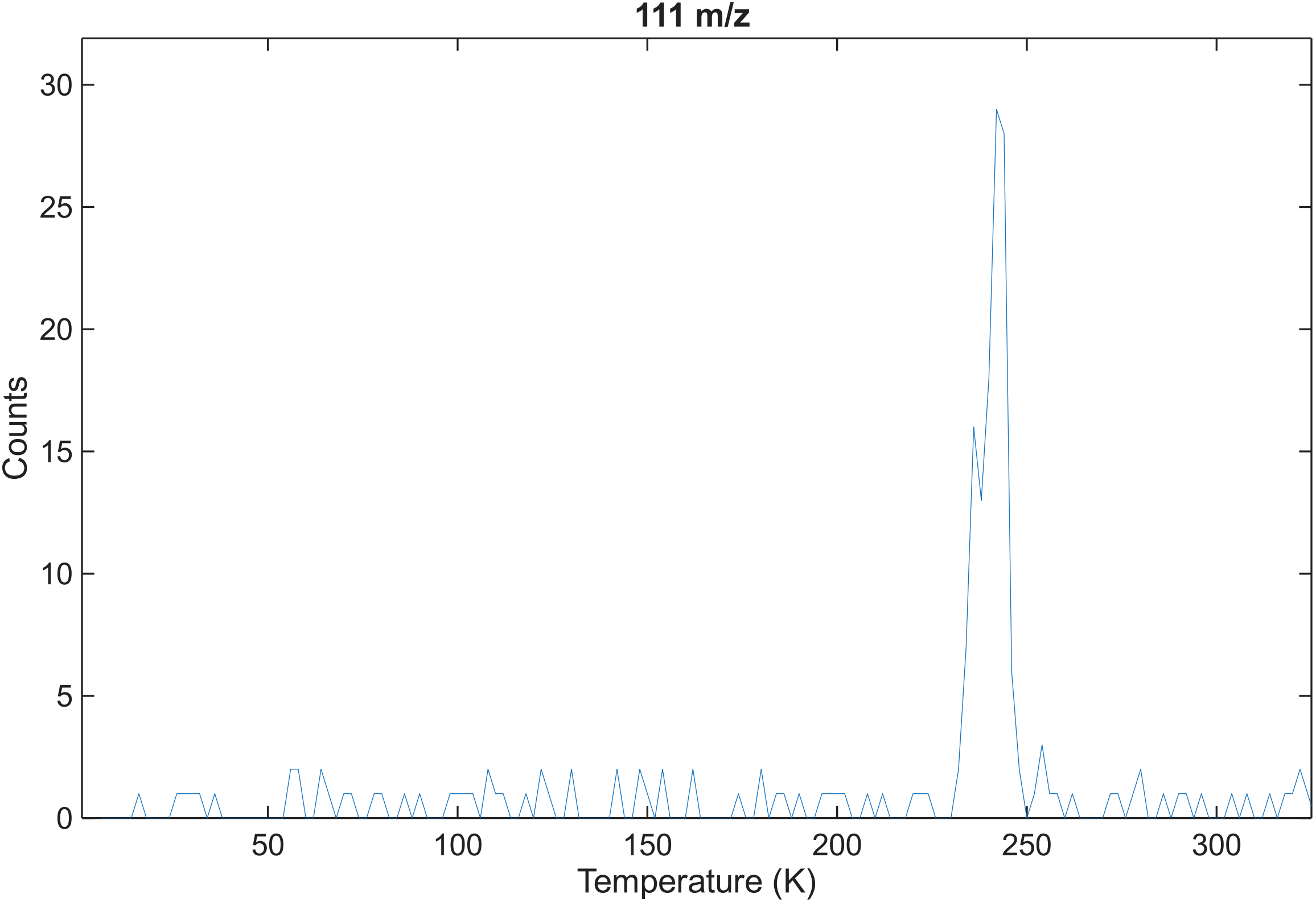
111 m/z
Counts
Temperature (K)
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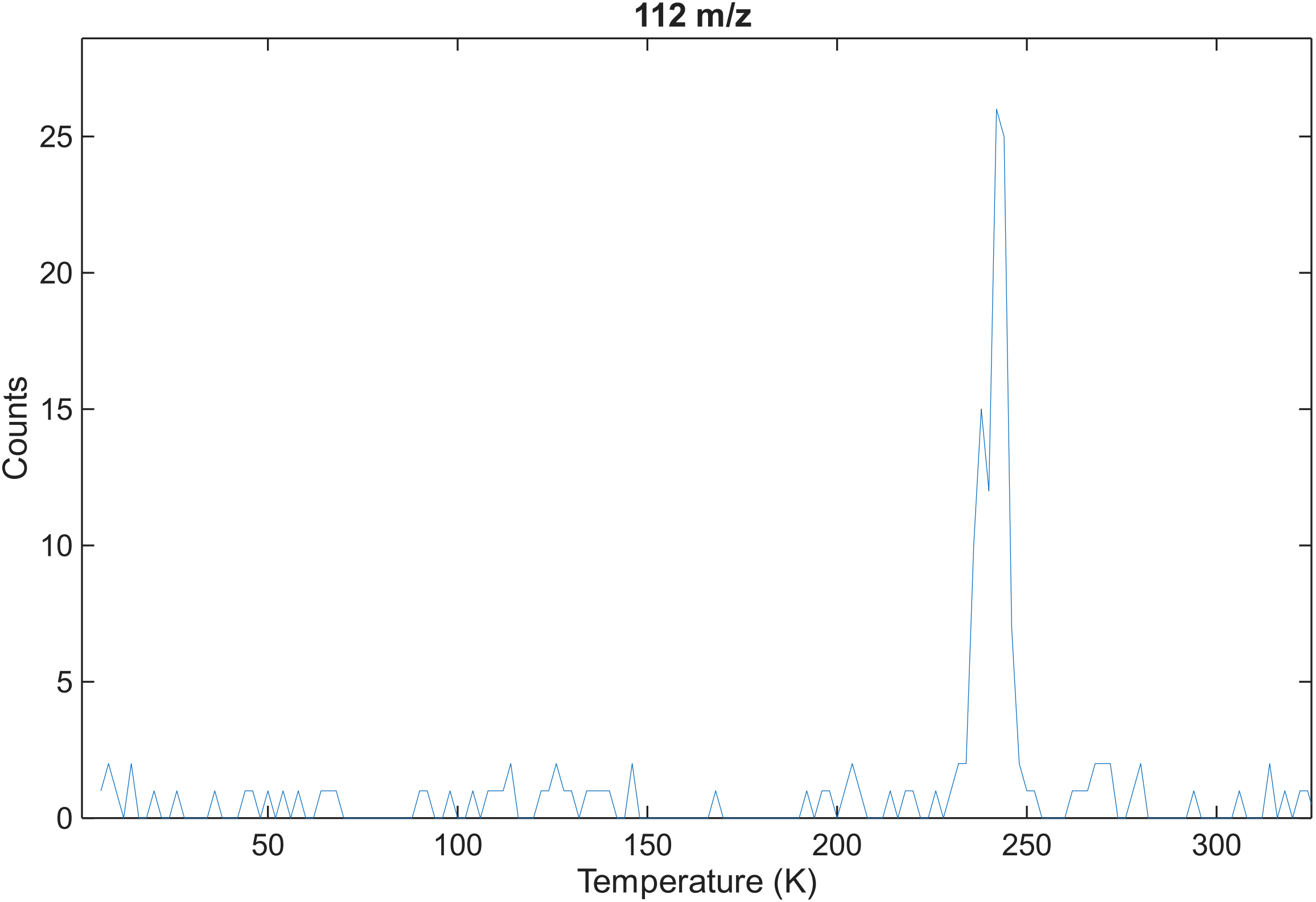
112 m/z
Counts
Temperature (K)
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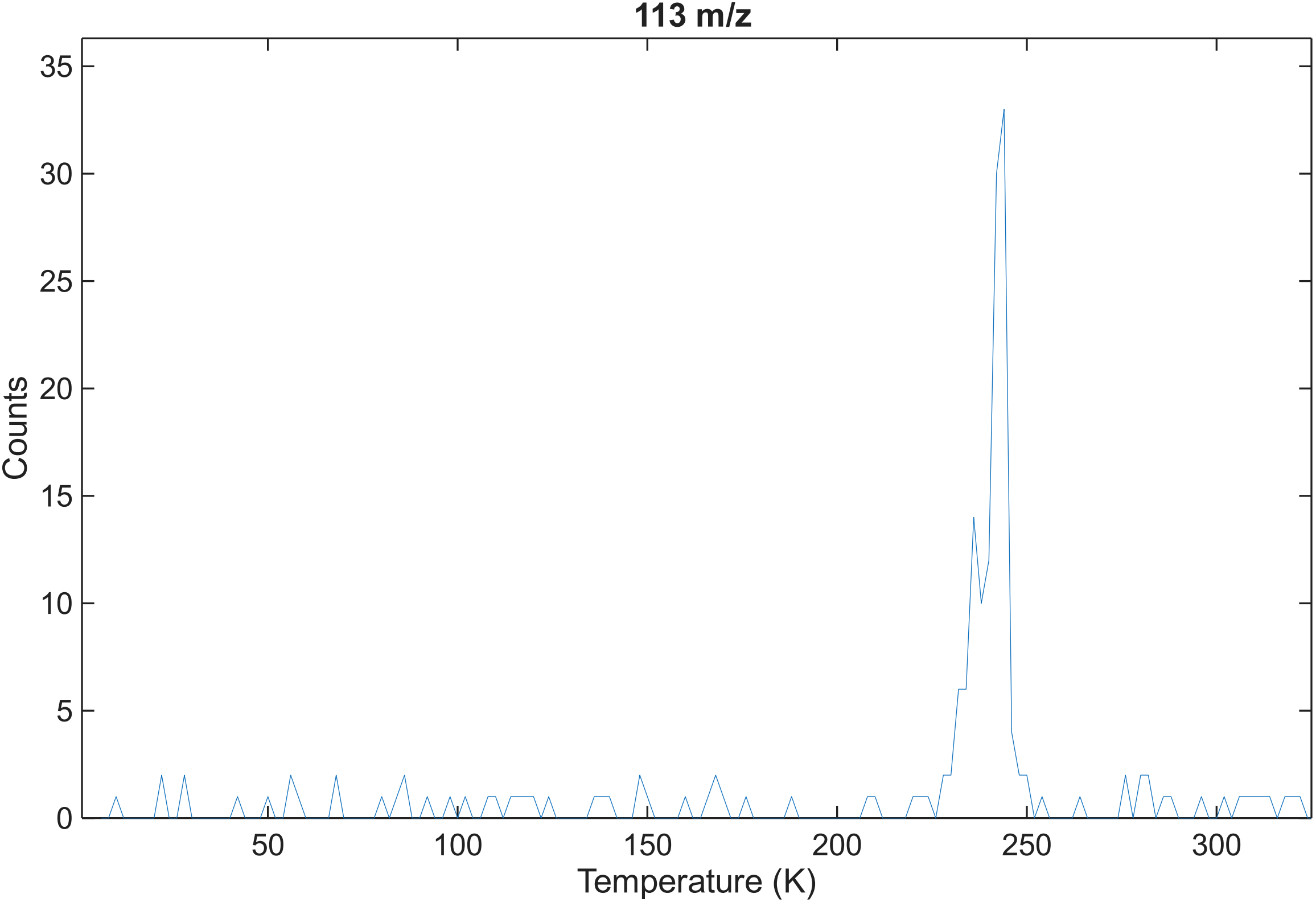
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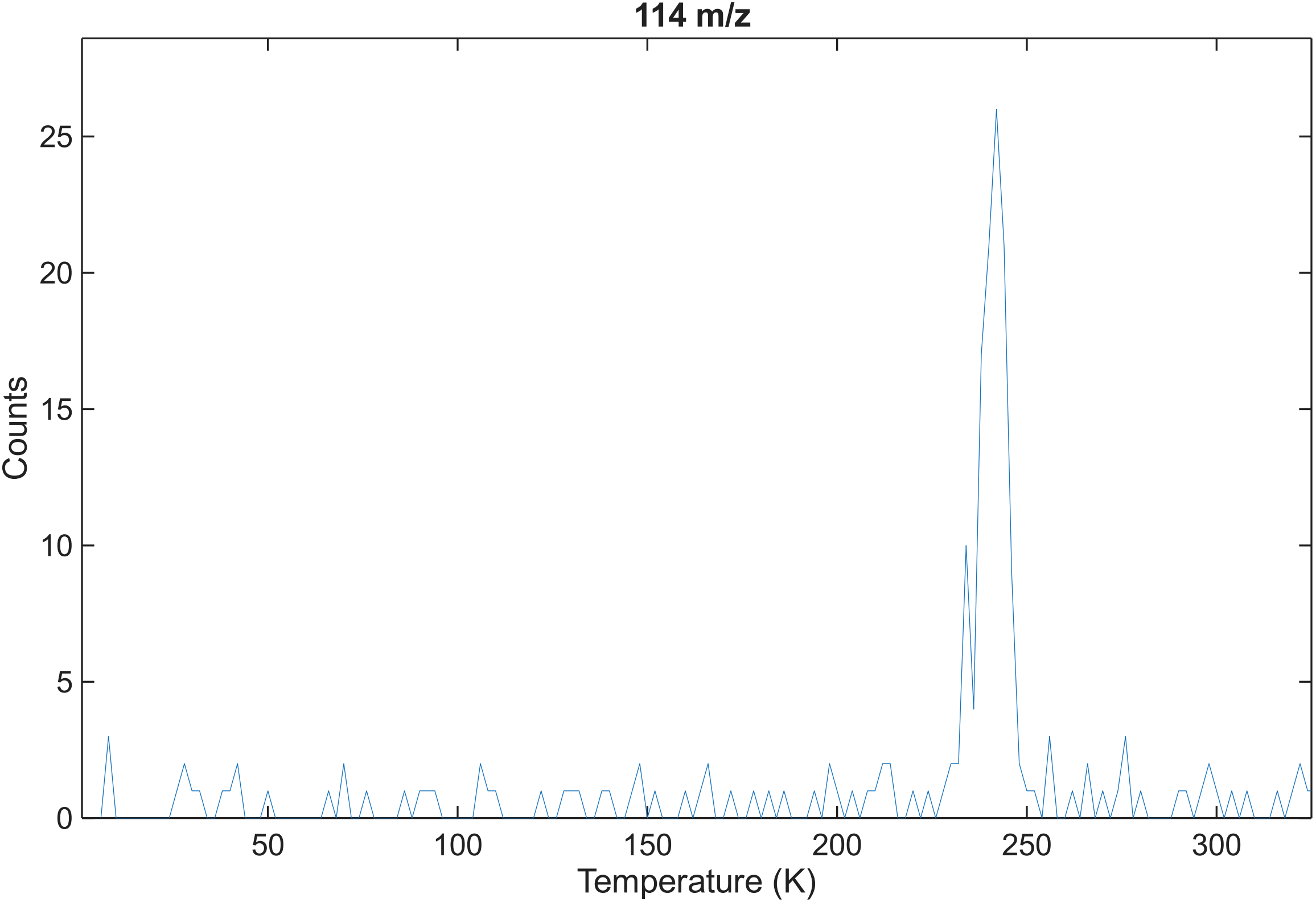
114 m/z
Counts
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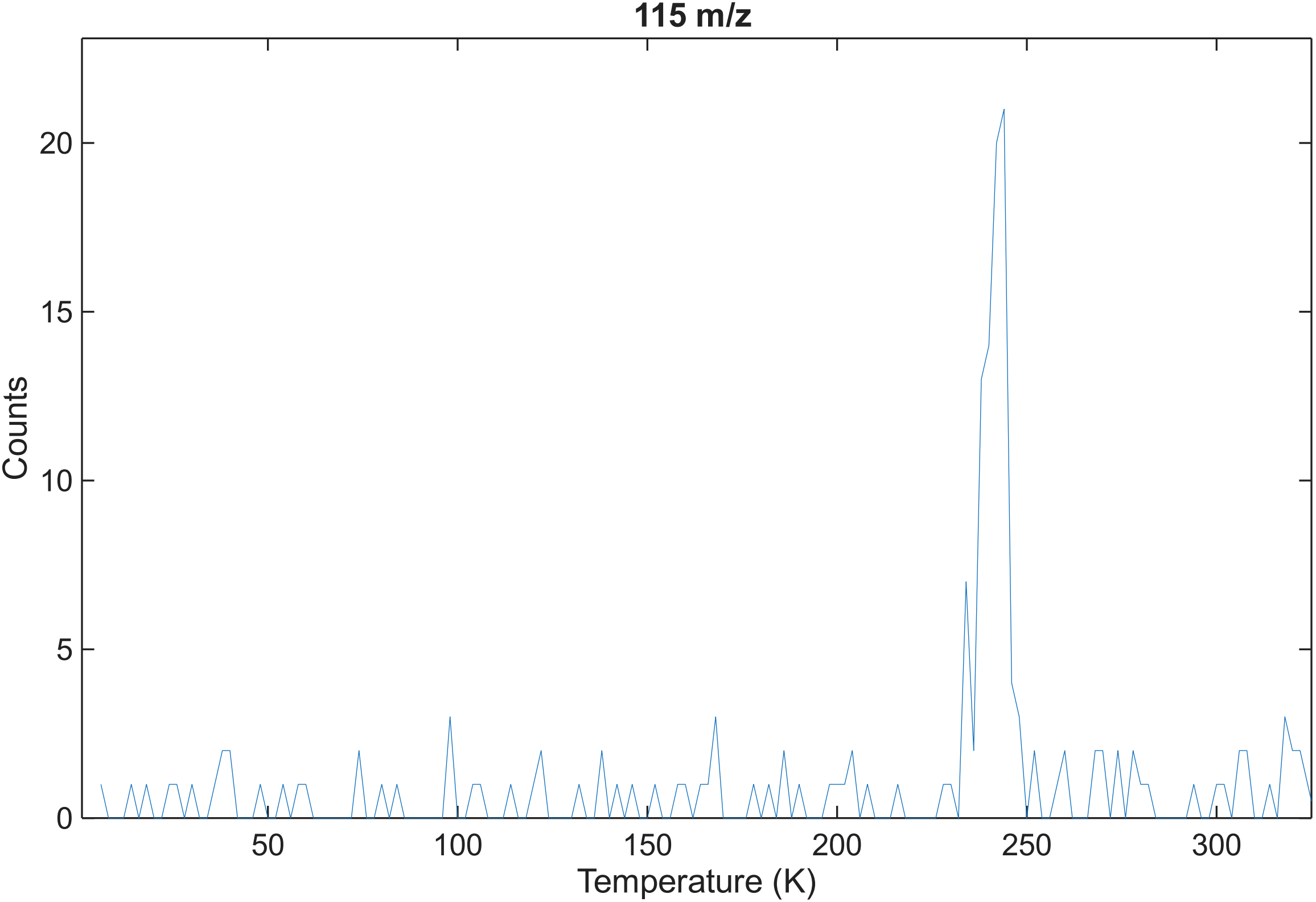
Temperature (K)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Counts
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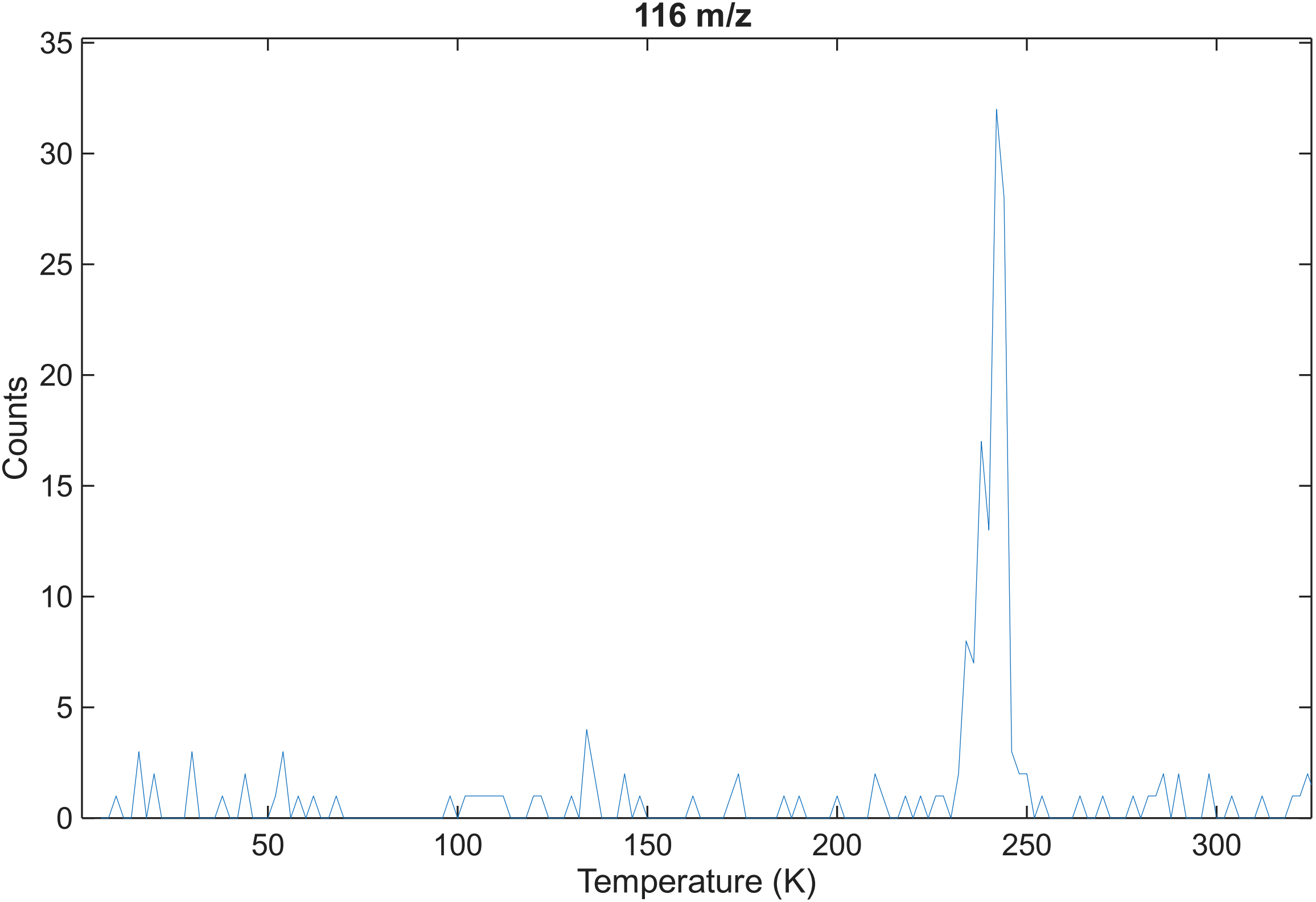
Temperature (K)


116 m/z
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Counts
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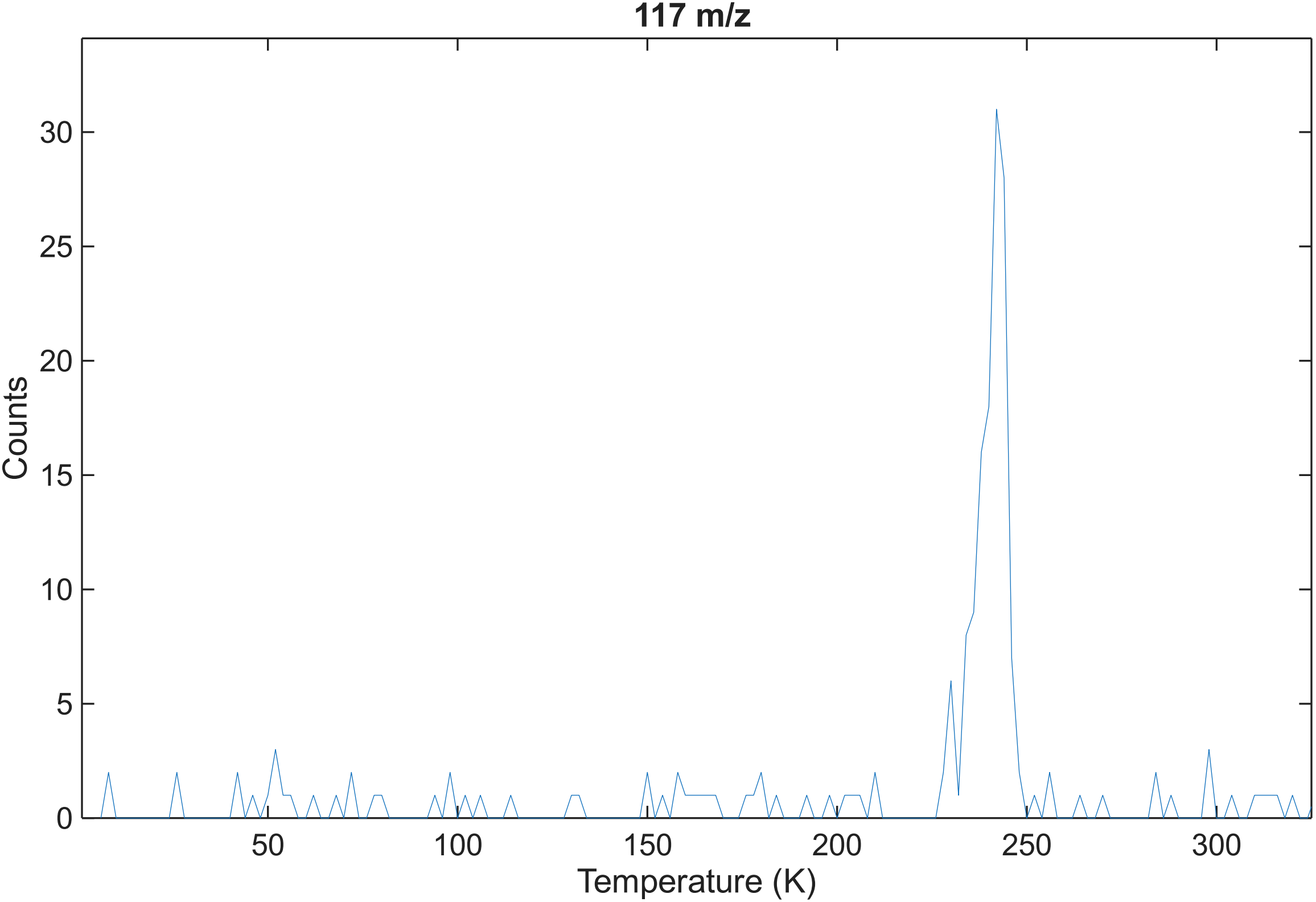
Temperature (K)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Counts
Temperature (K)
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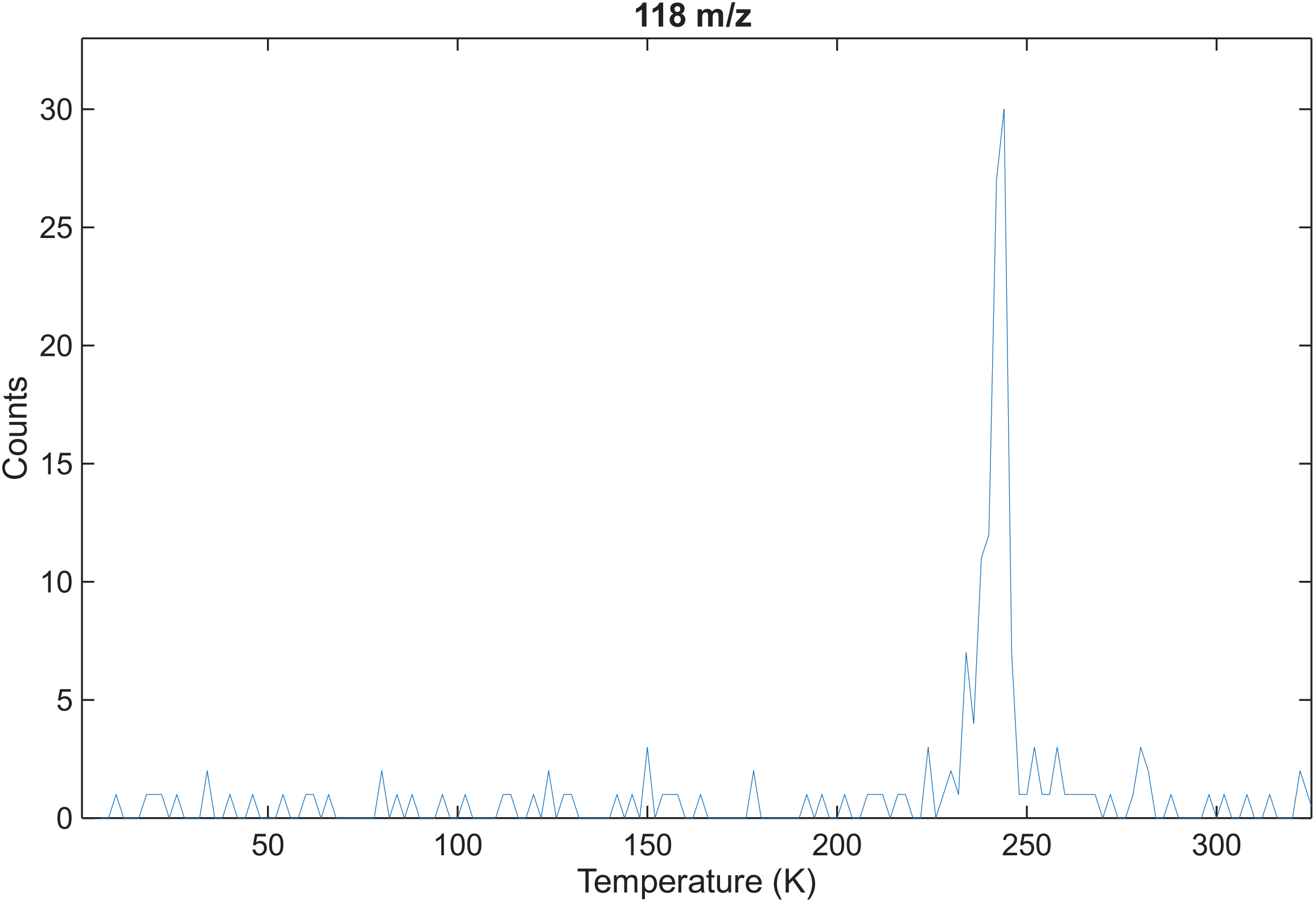
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Counts
Temperature (K)
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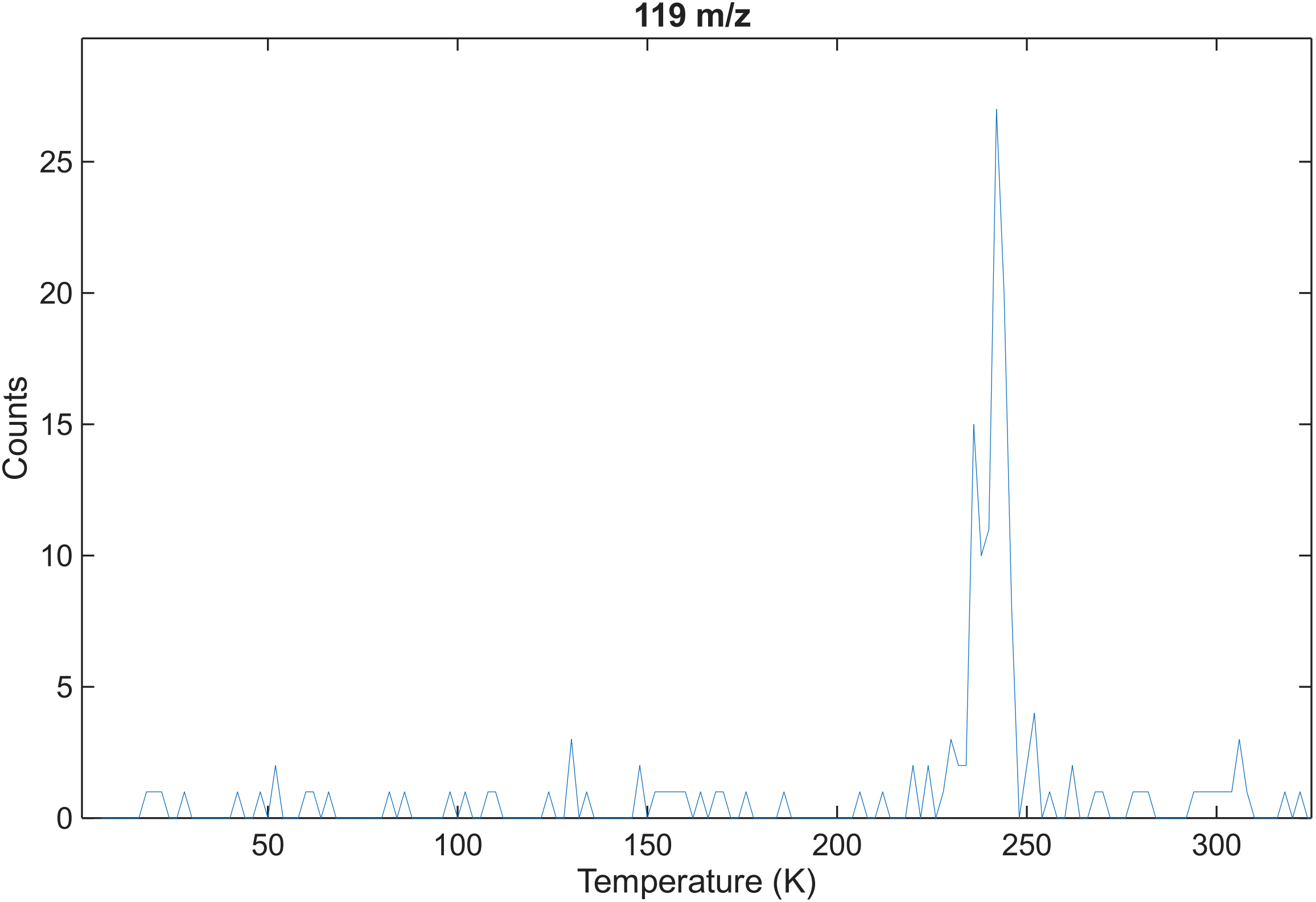
119 m/z
Counts
Temperature (K)
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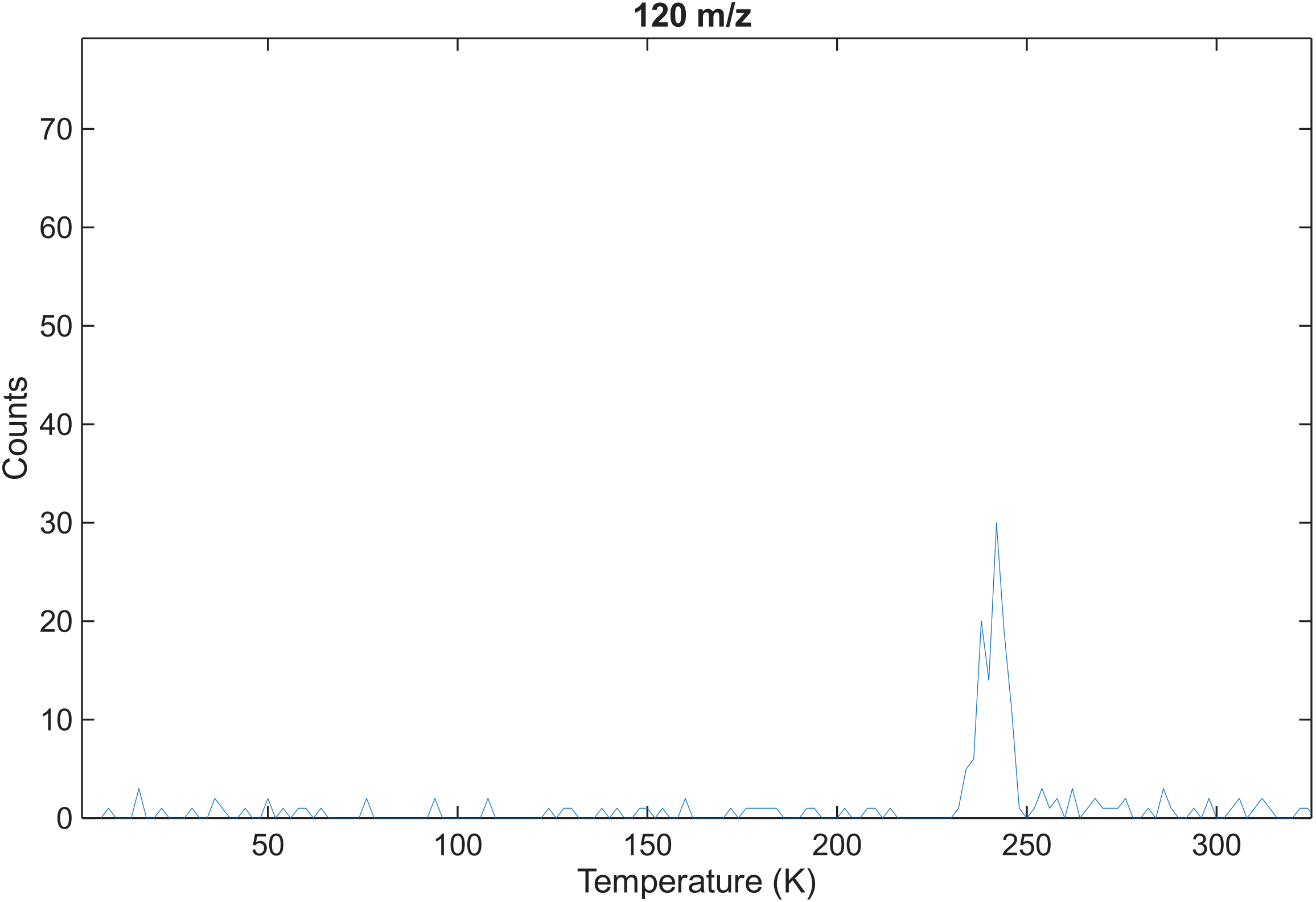
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Counts
Temperature (K)
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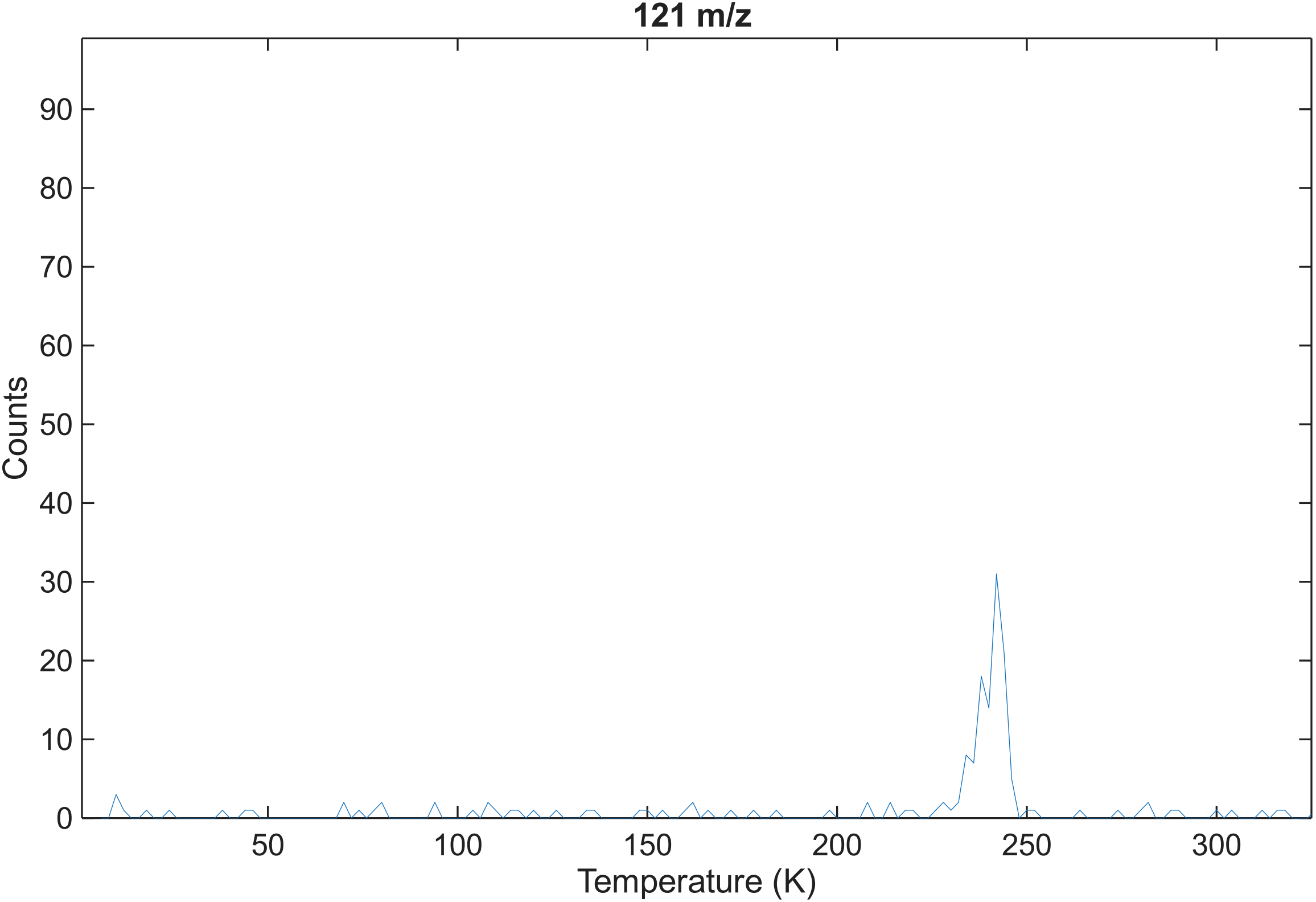
121 m/z
Counts
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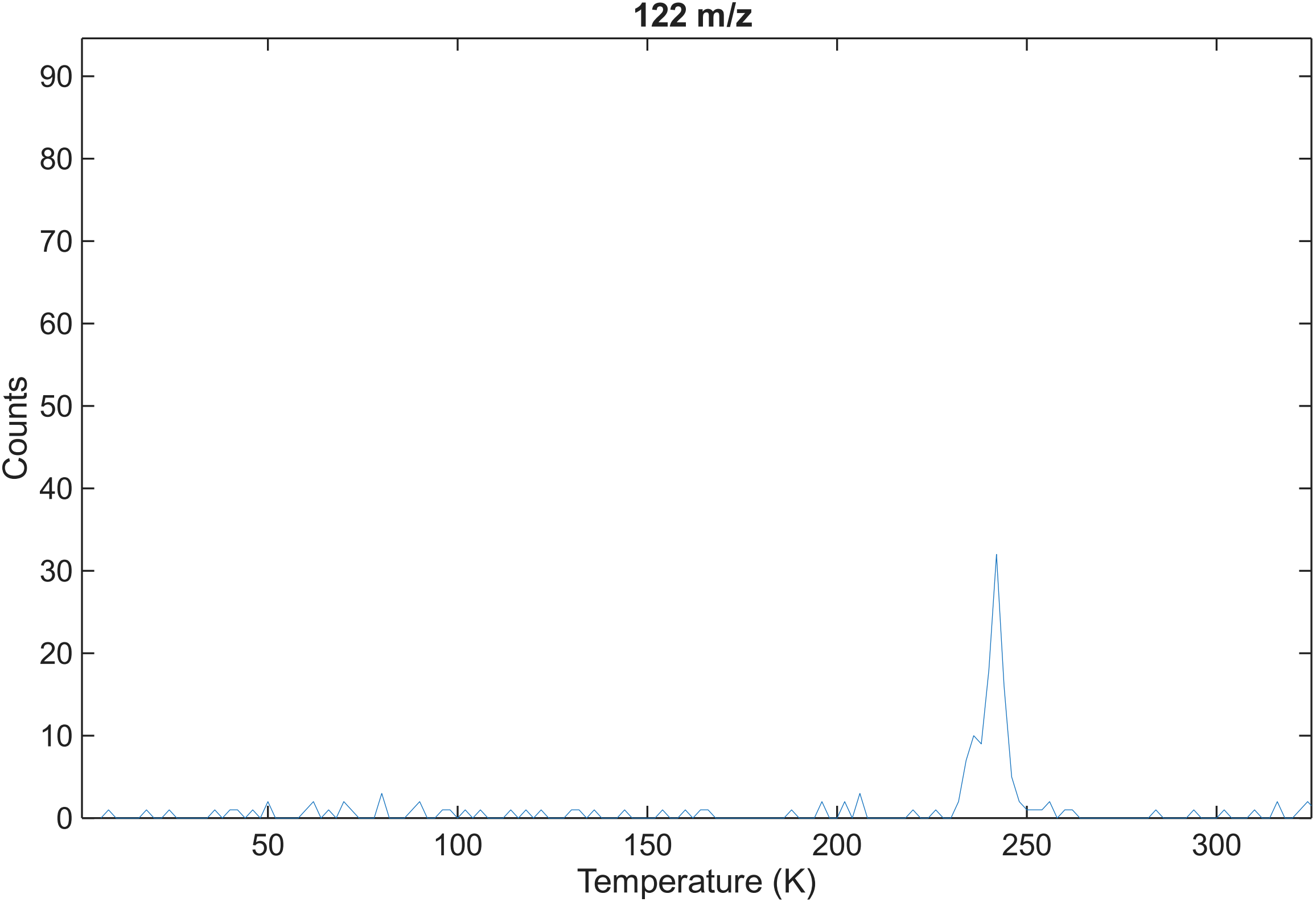
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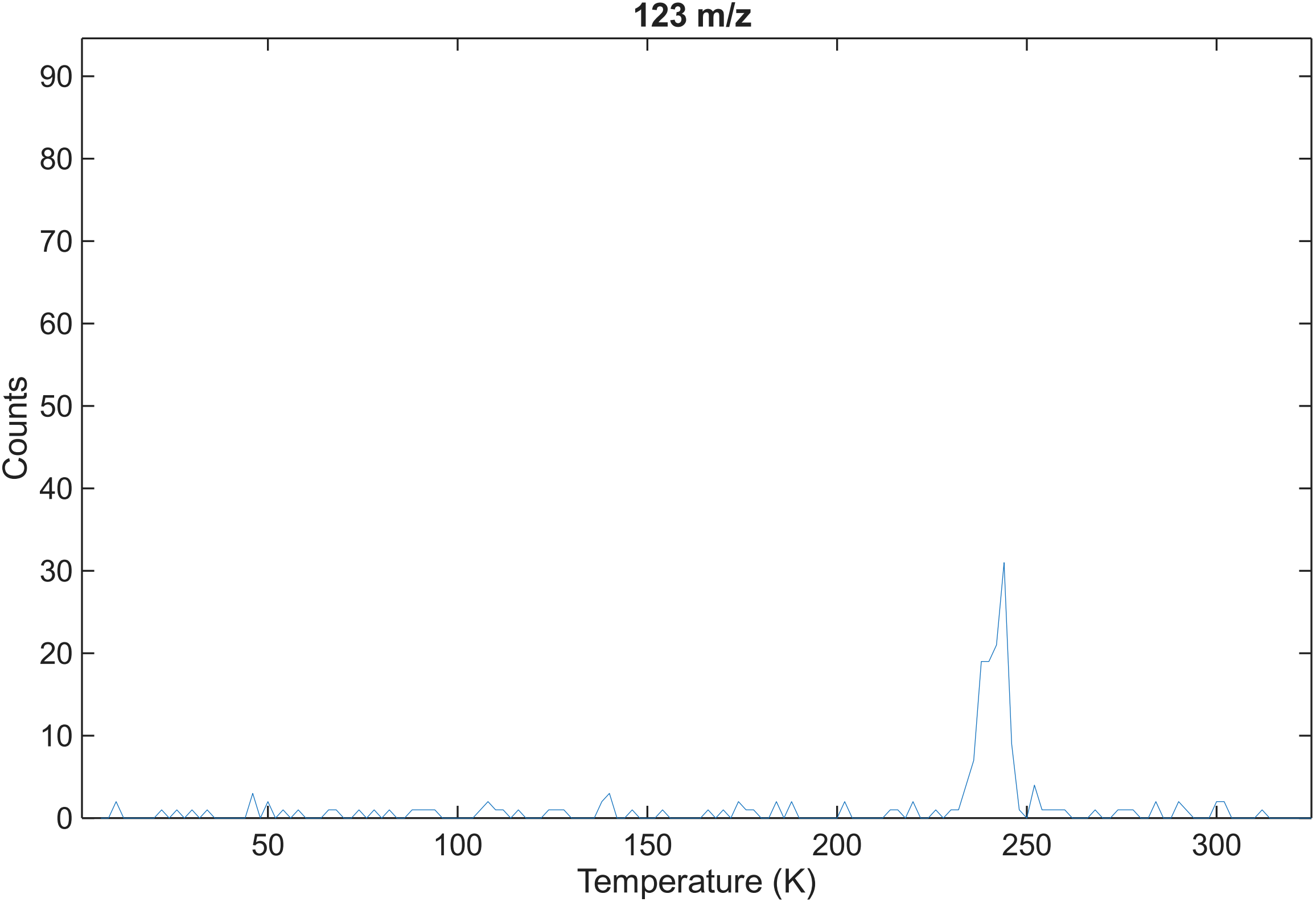
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Counts
Temperature (K)
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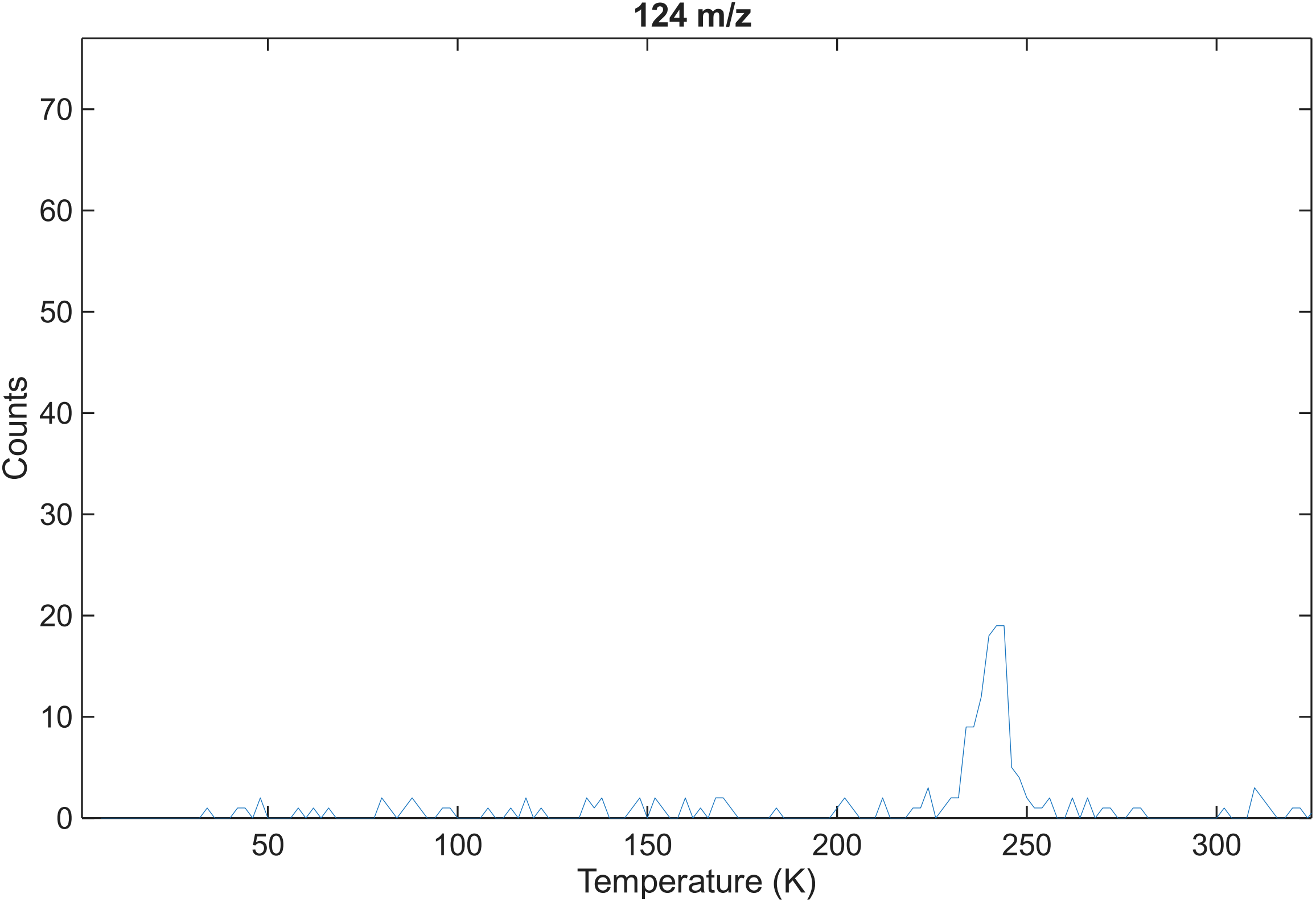
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Counts
Temperature (K)
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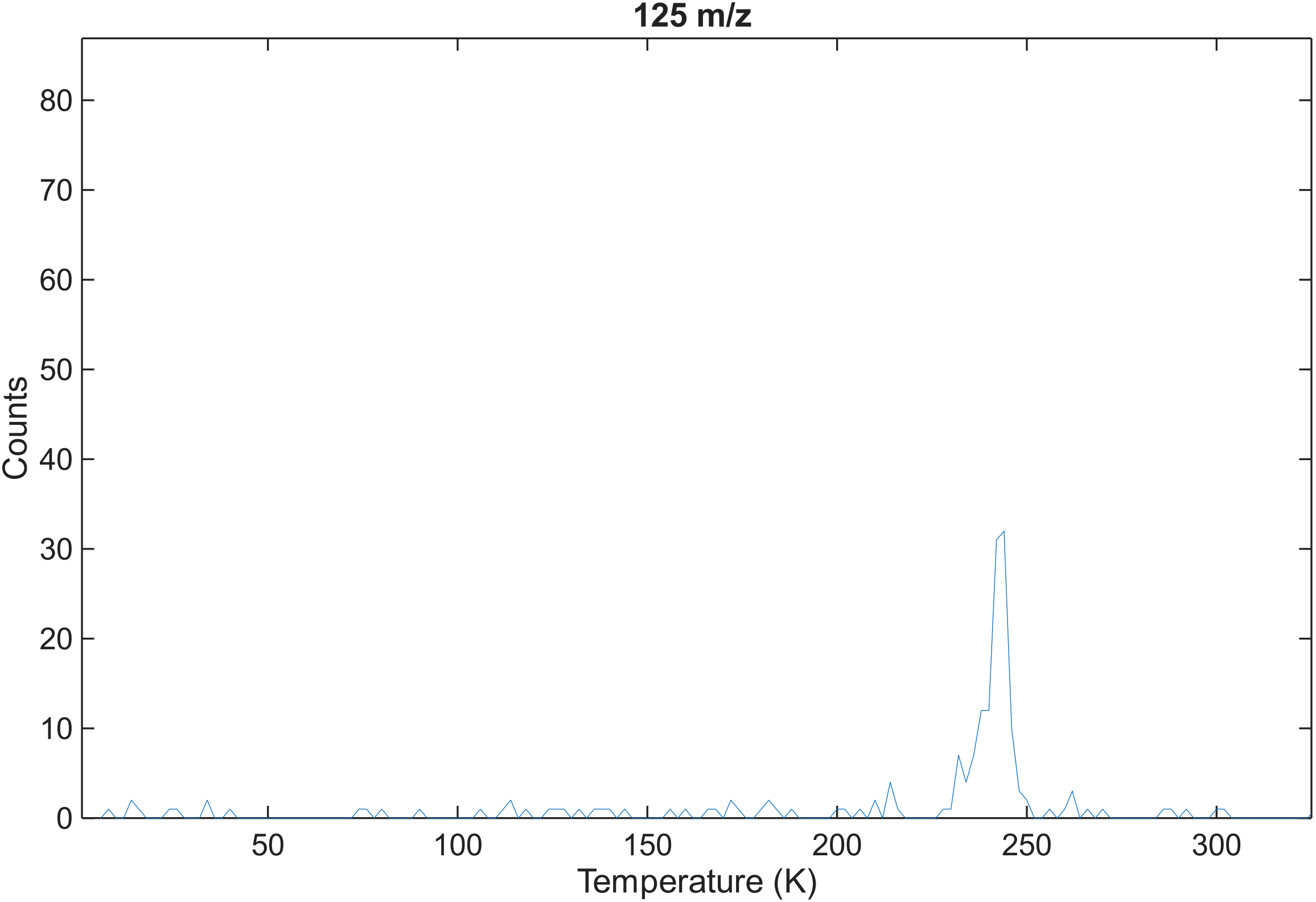
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Counts
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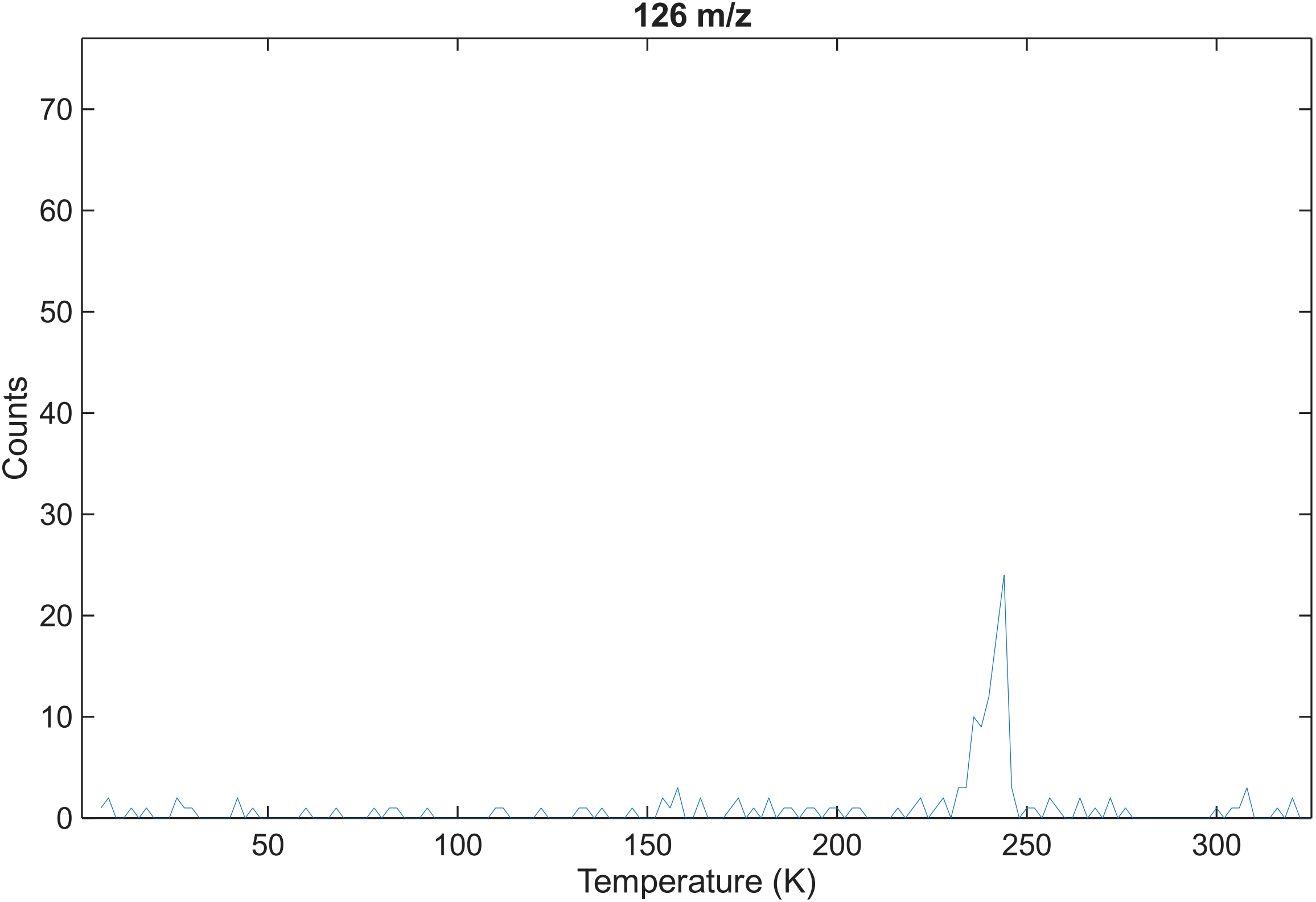
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Counts
Temperature (K)
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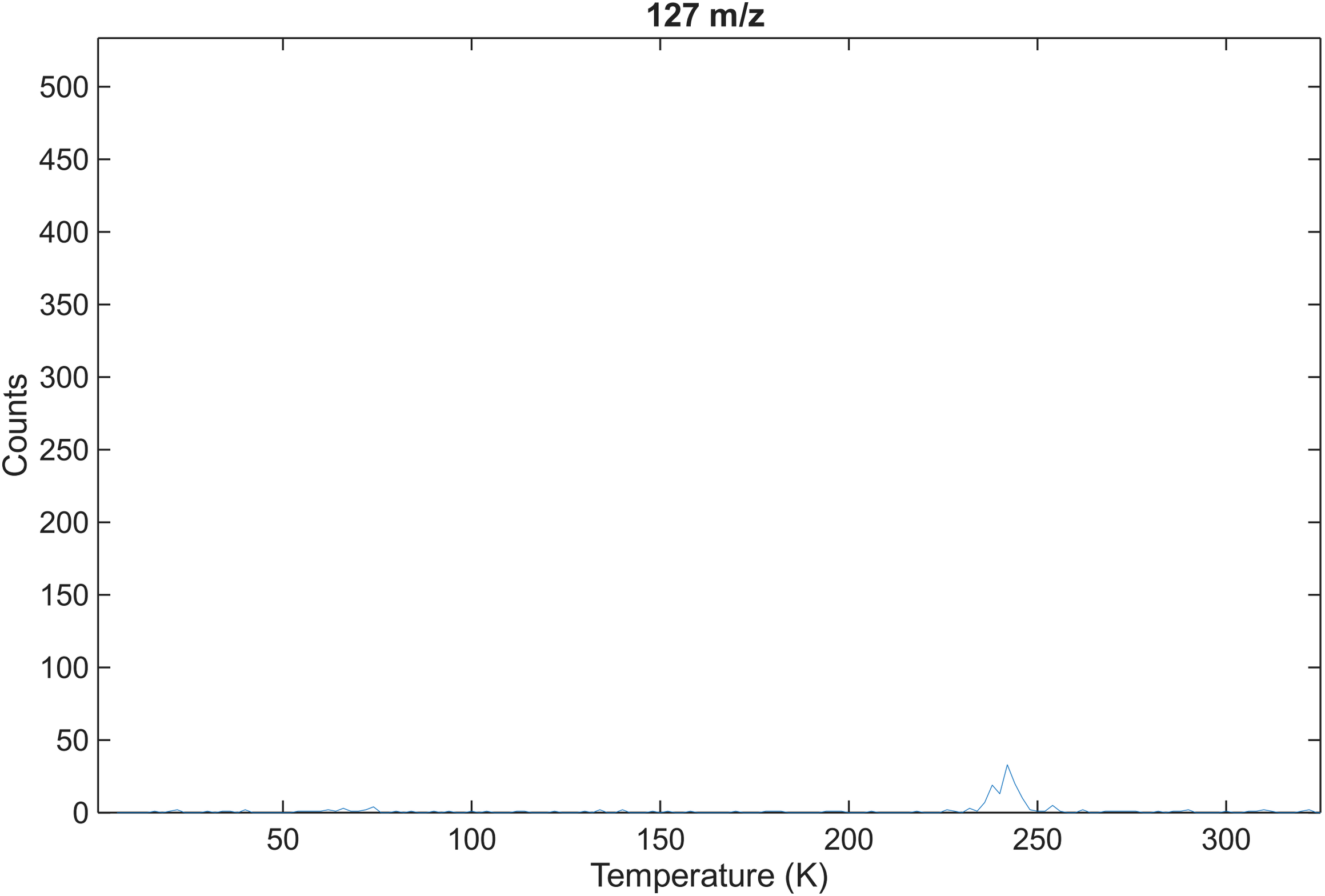
127 m/z
Counts
Temperature (K)
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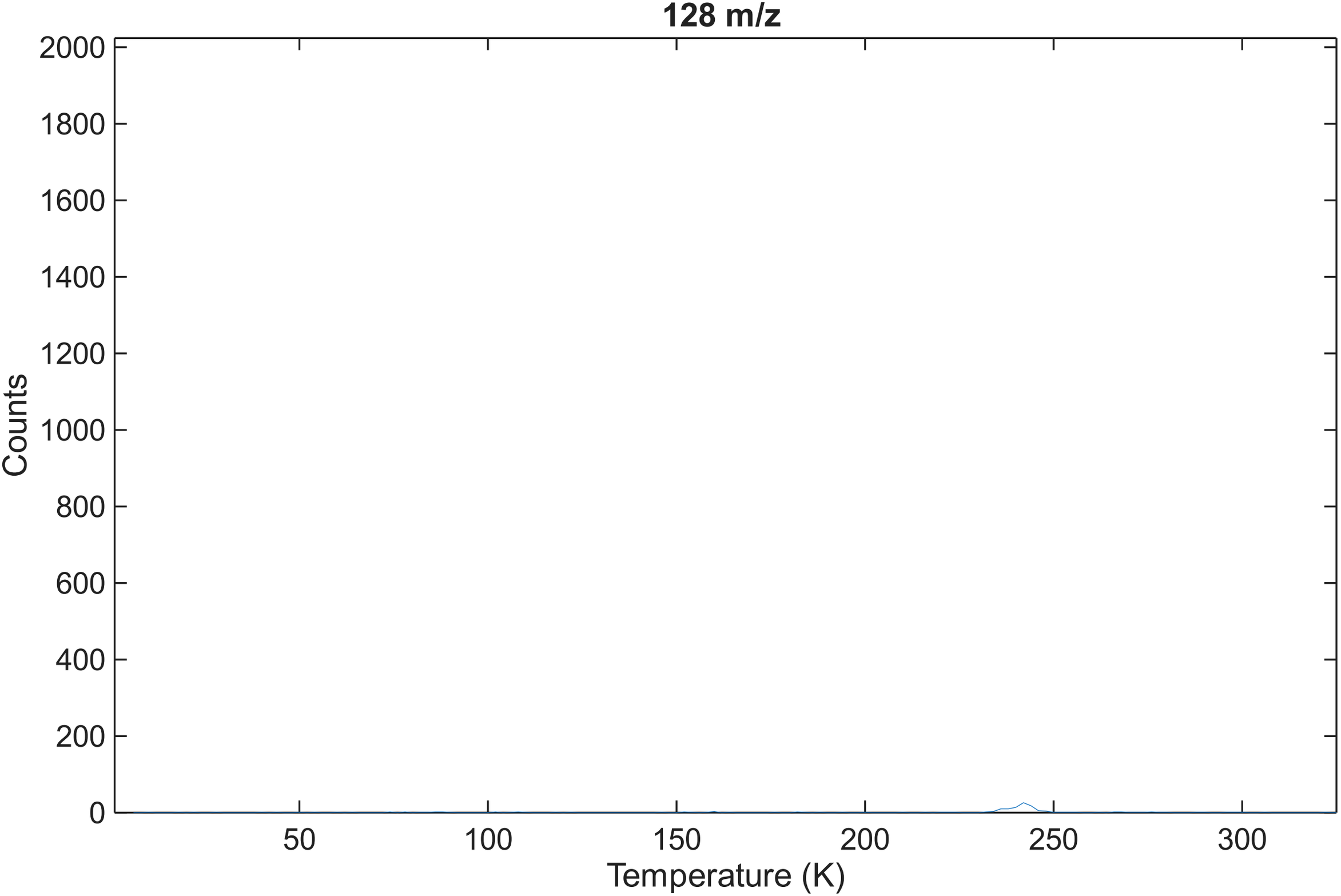
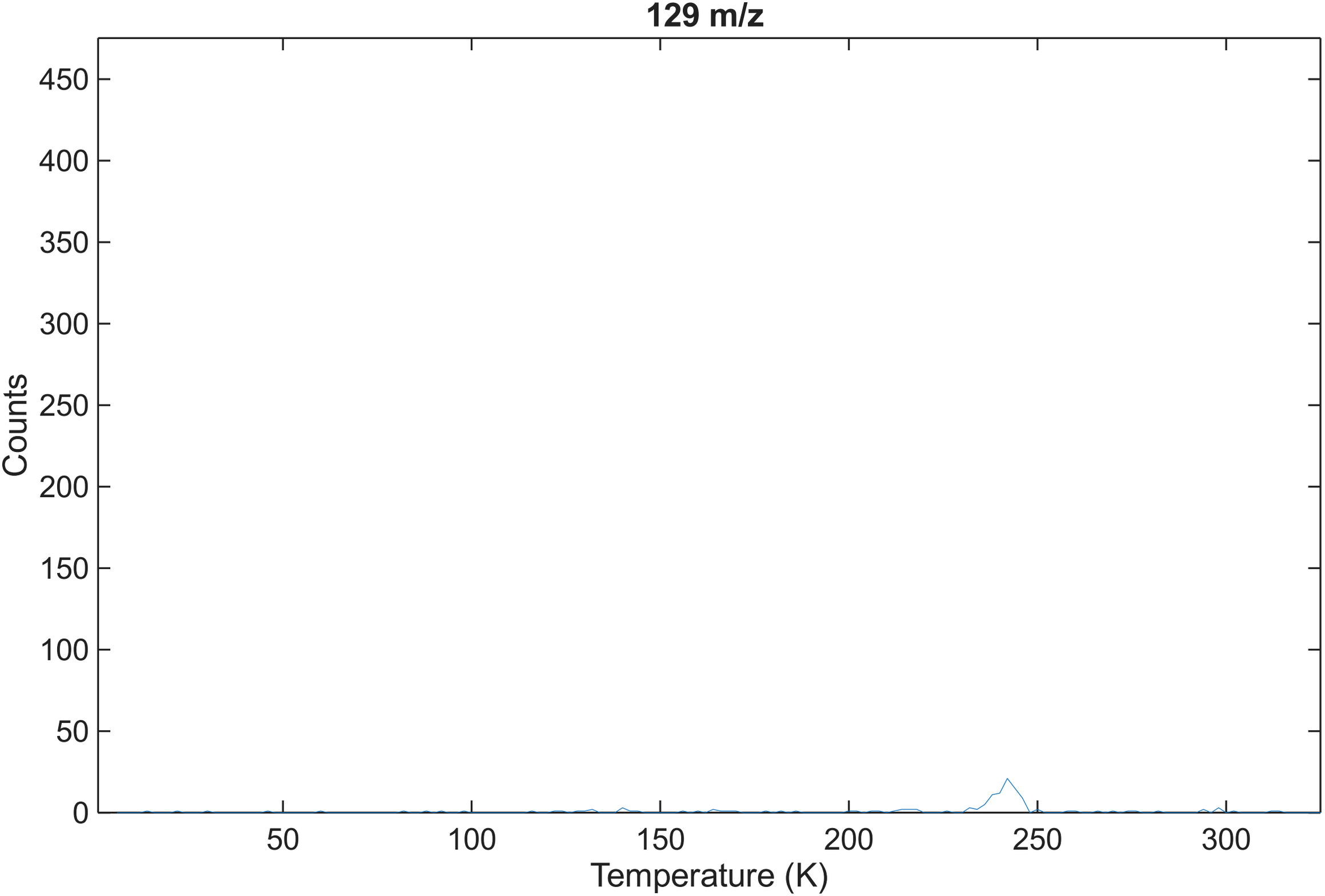

128 m/z
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Counts
50
100
150
200
250
300
Temperature (K)


129 m/z
Counts
Temperature (K)
0
50
100
150
200
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400
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150
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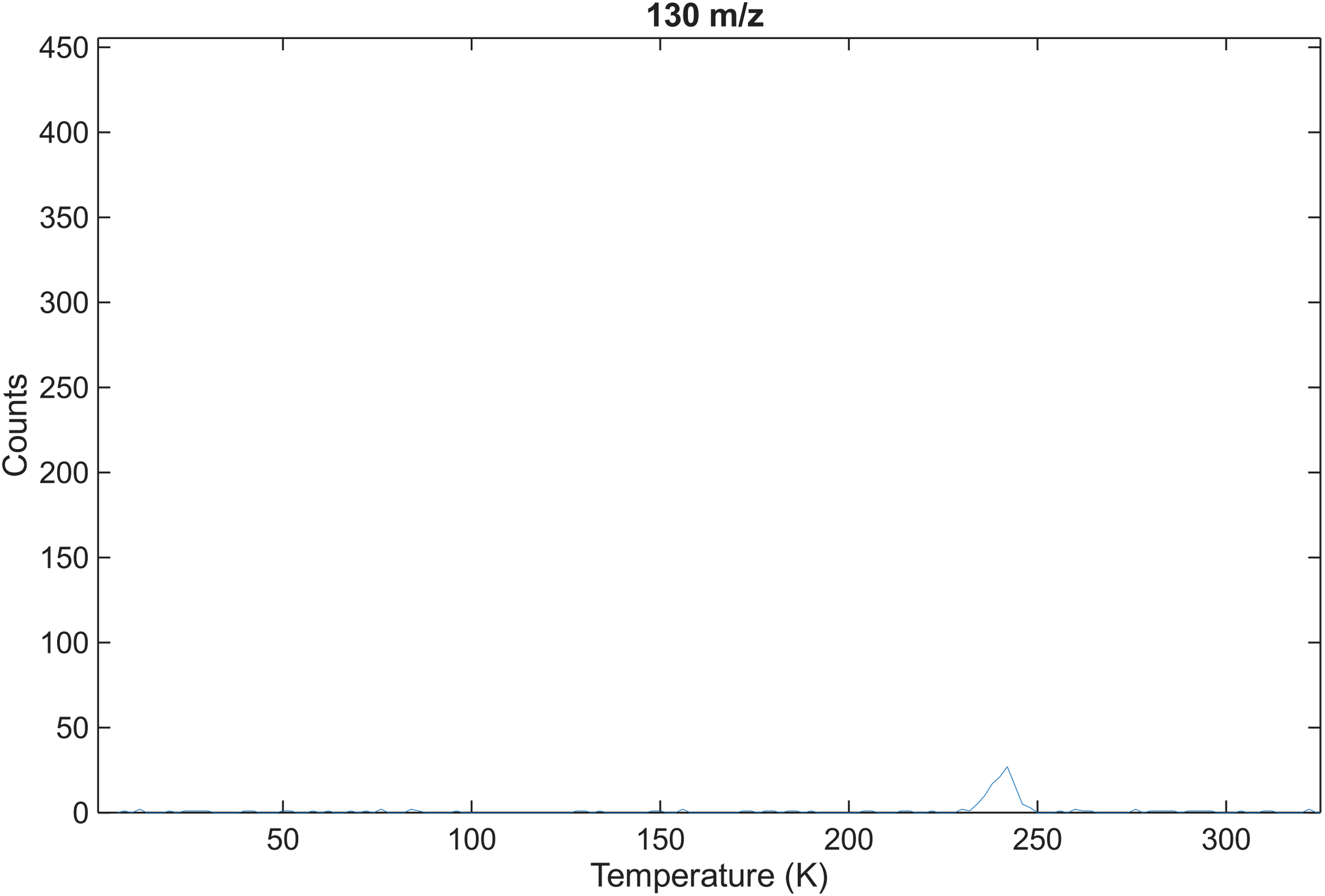
250
300


130 m/z
Counts
Temperature (K)
0
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100
150
200
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150
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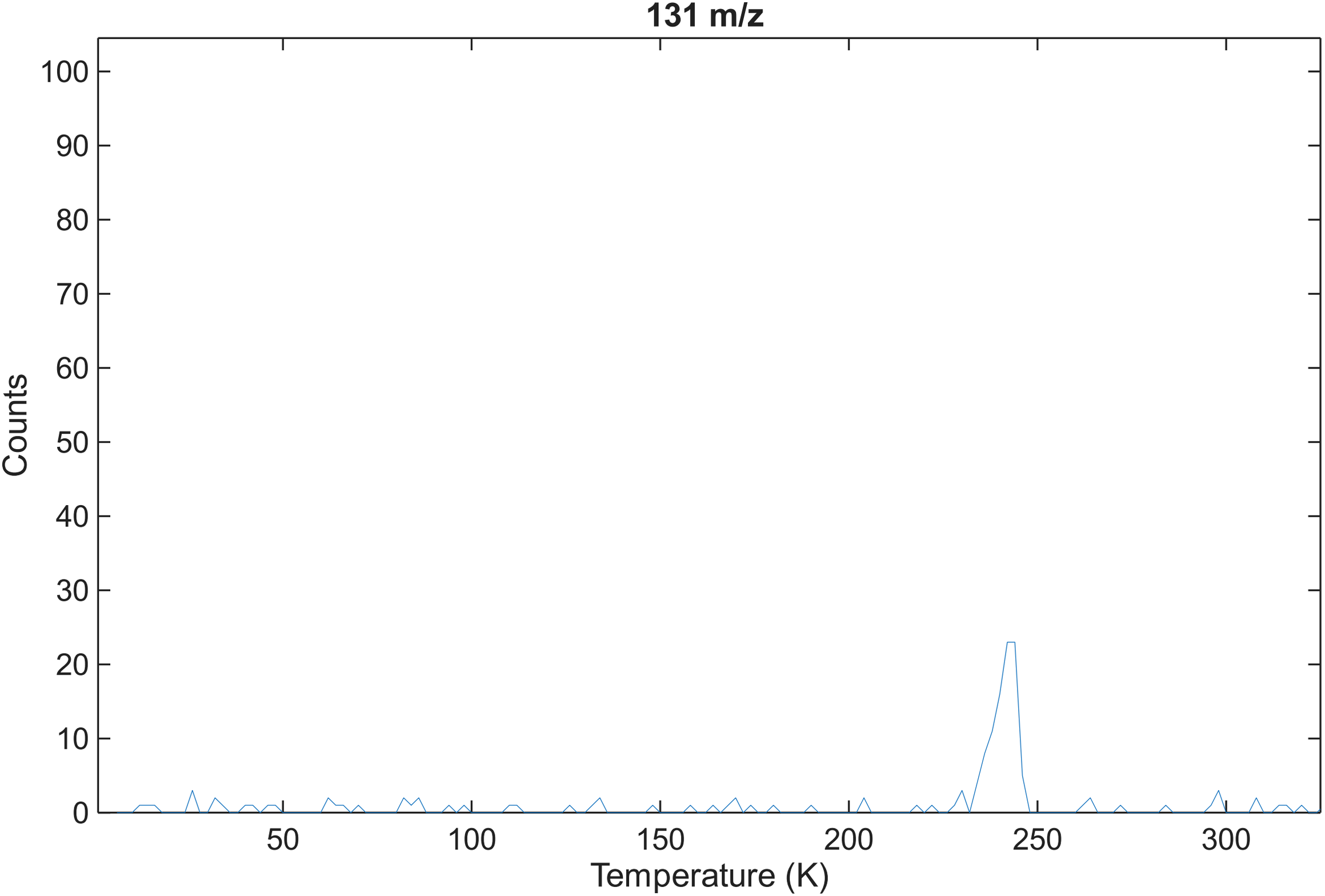
131 m/z
Counts
Temperature (K)
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10
20
30
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50
60
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90
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100
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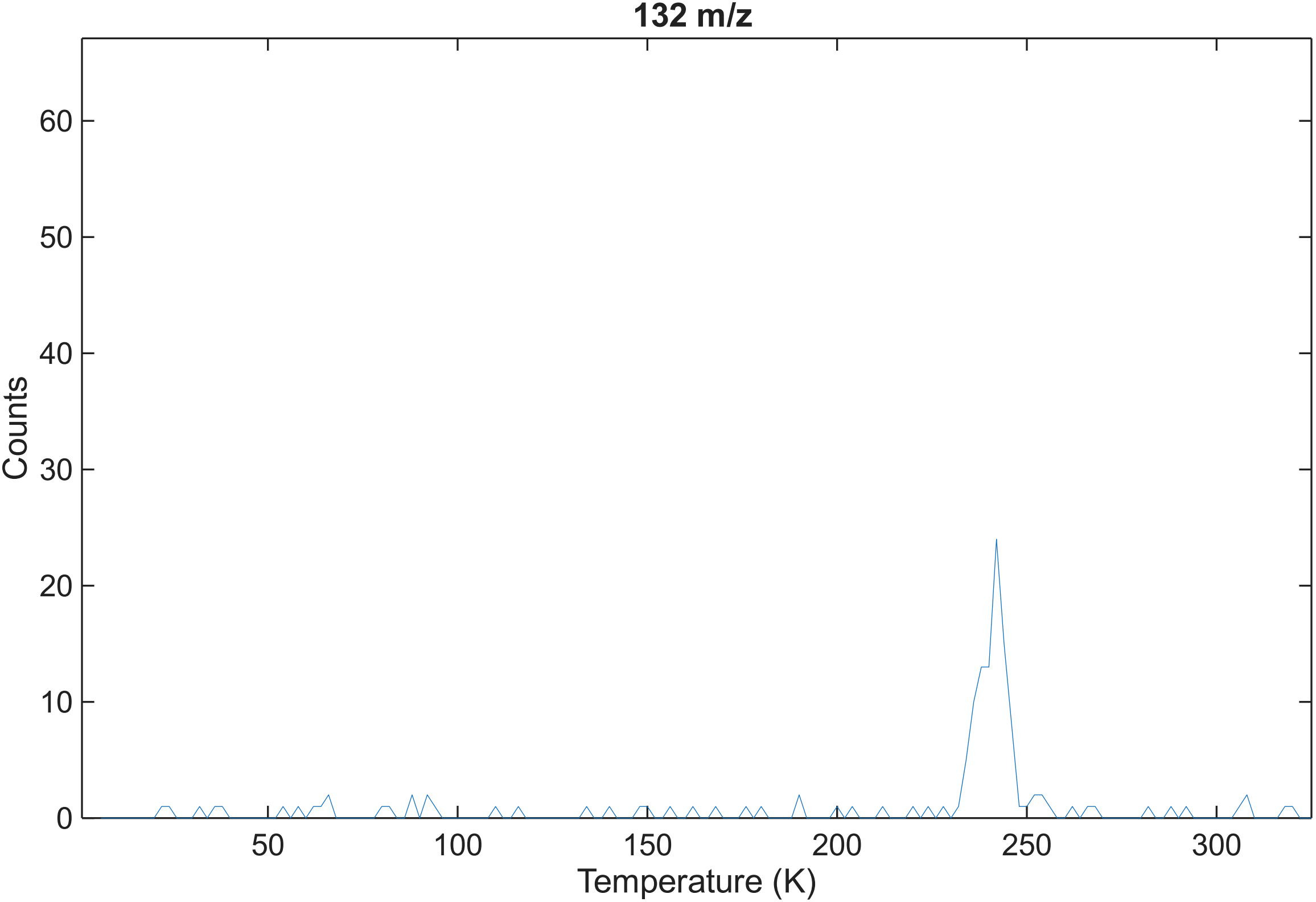
200
250
300


132 m/z
Counts
Temperature (K)
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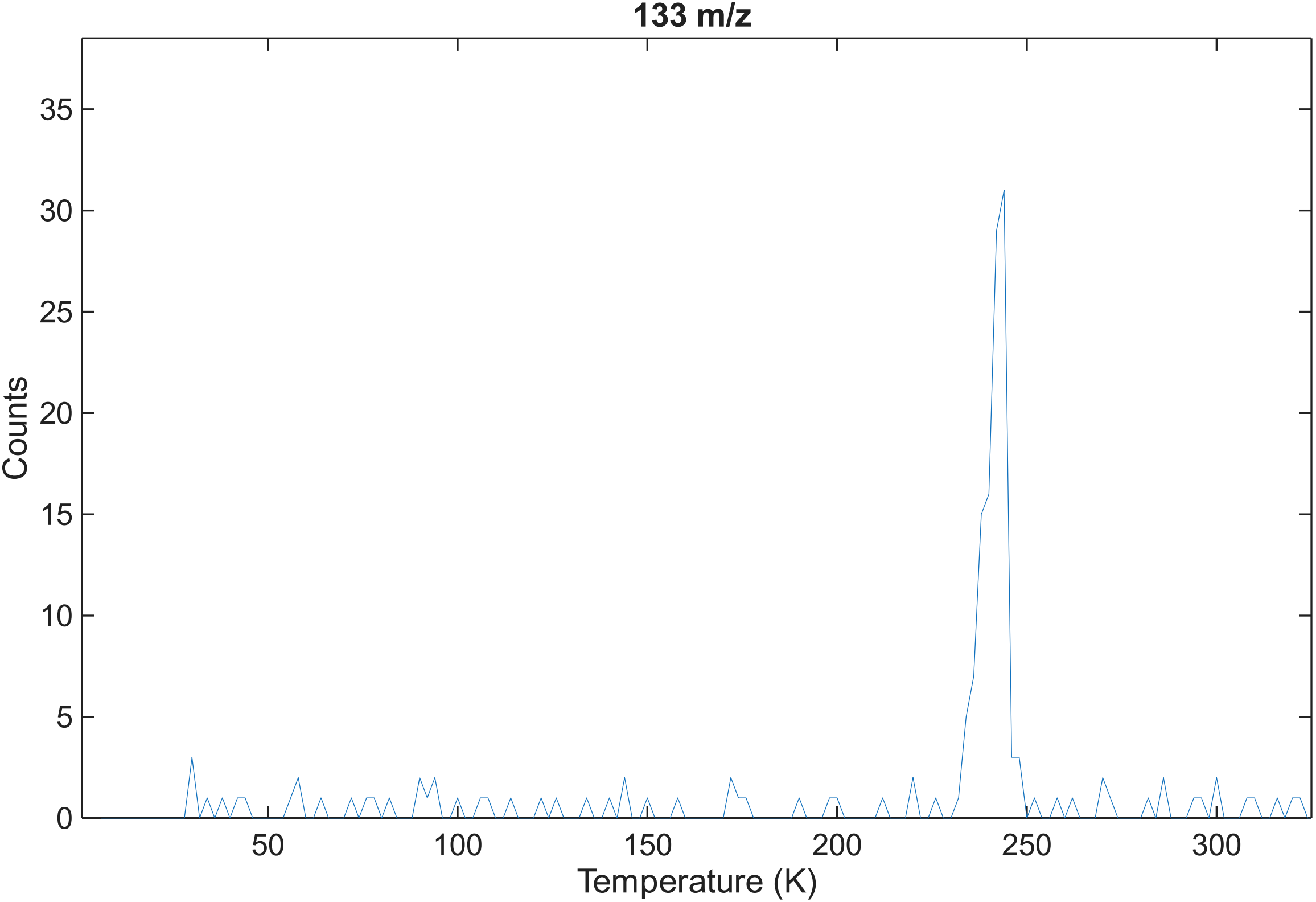
133 m/z
Counts
Temperature (K)
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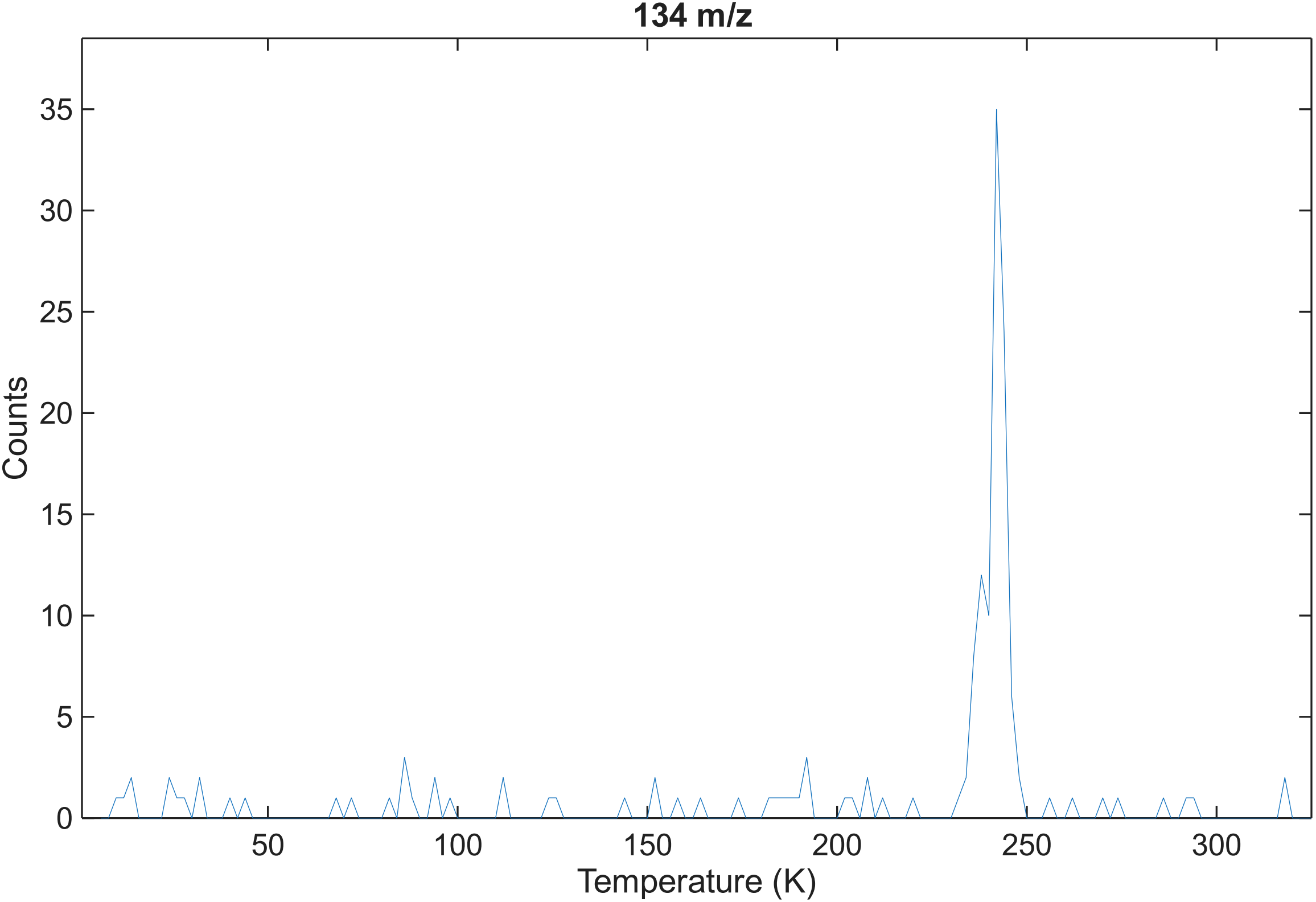
134 m/z
Counts
Temperature (K)
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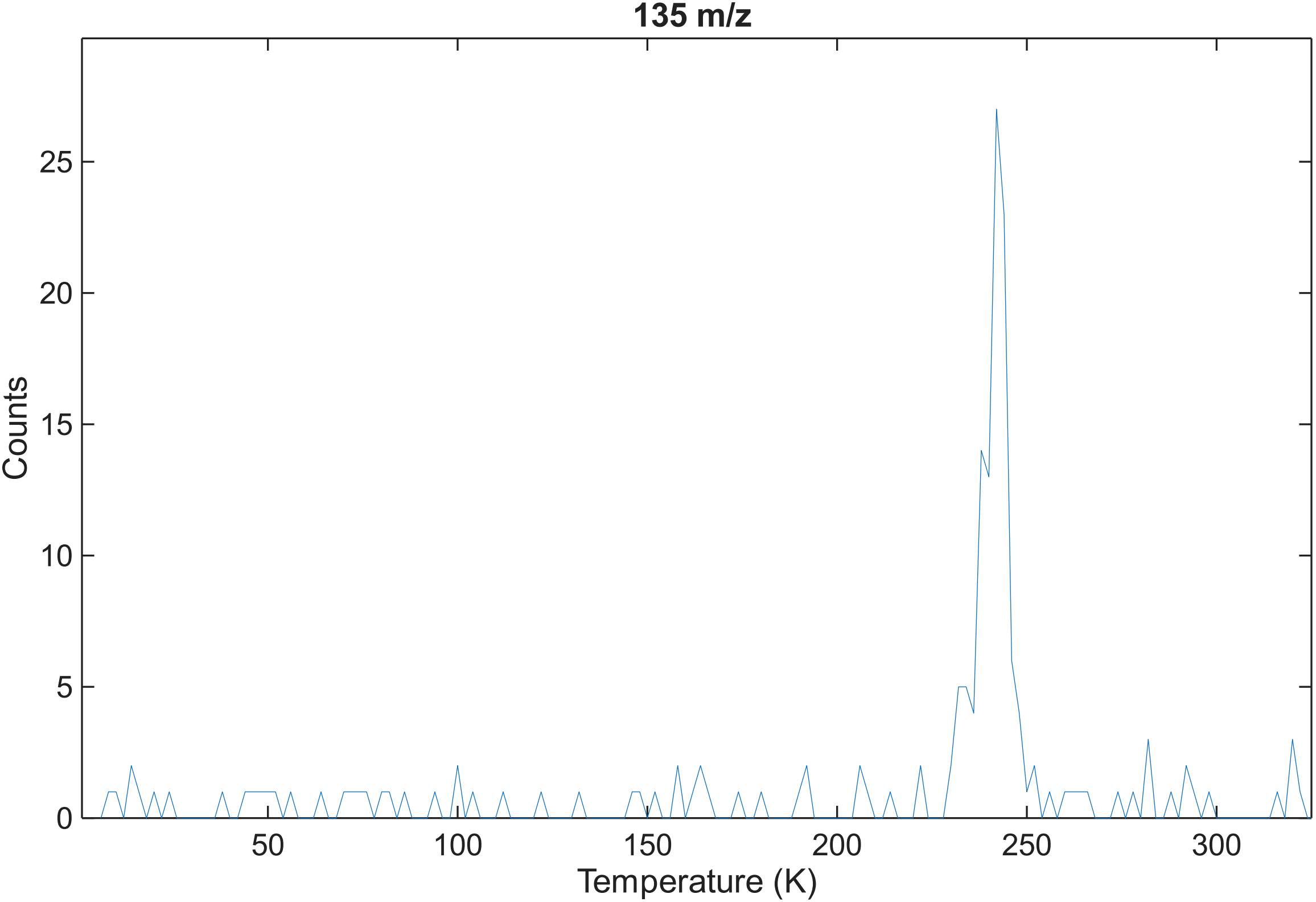
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Counts
Temperature (K)
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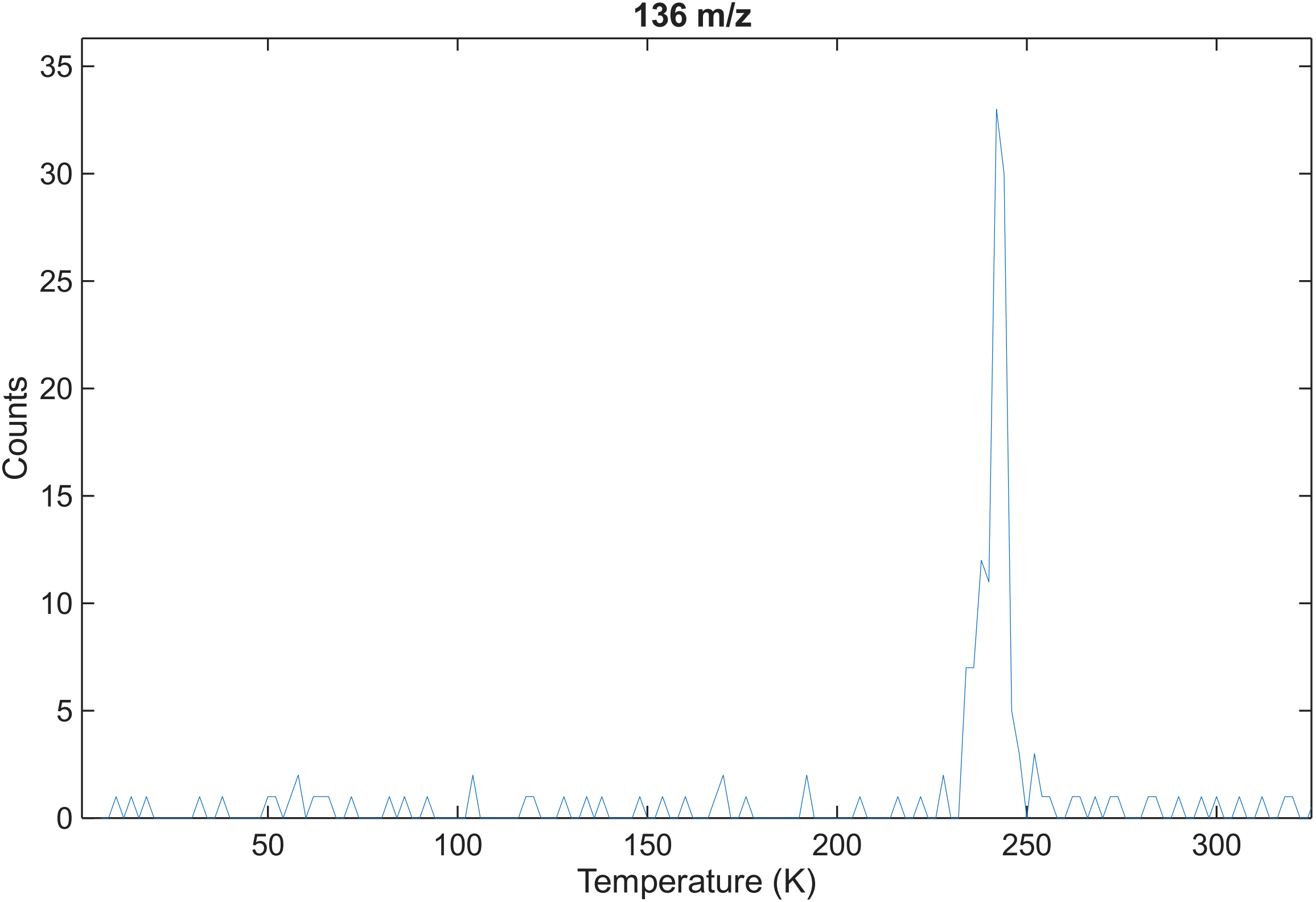
136 m/z
Counts
Temperature (K)
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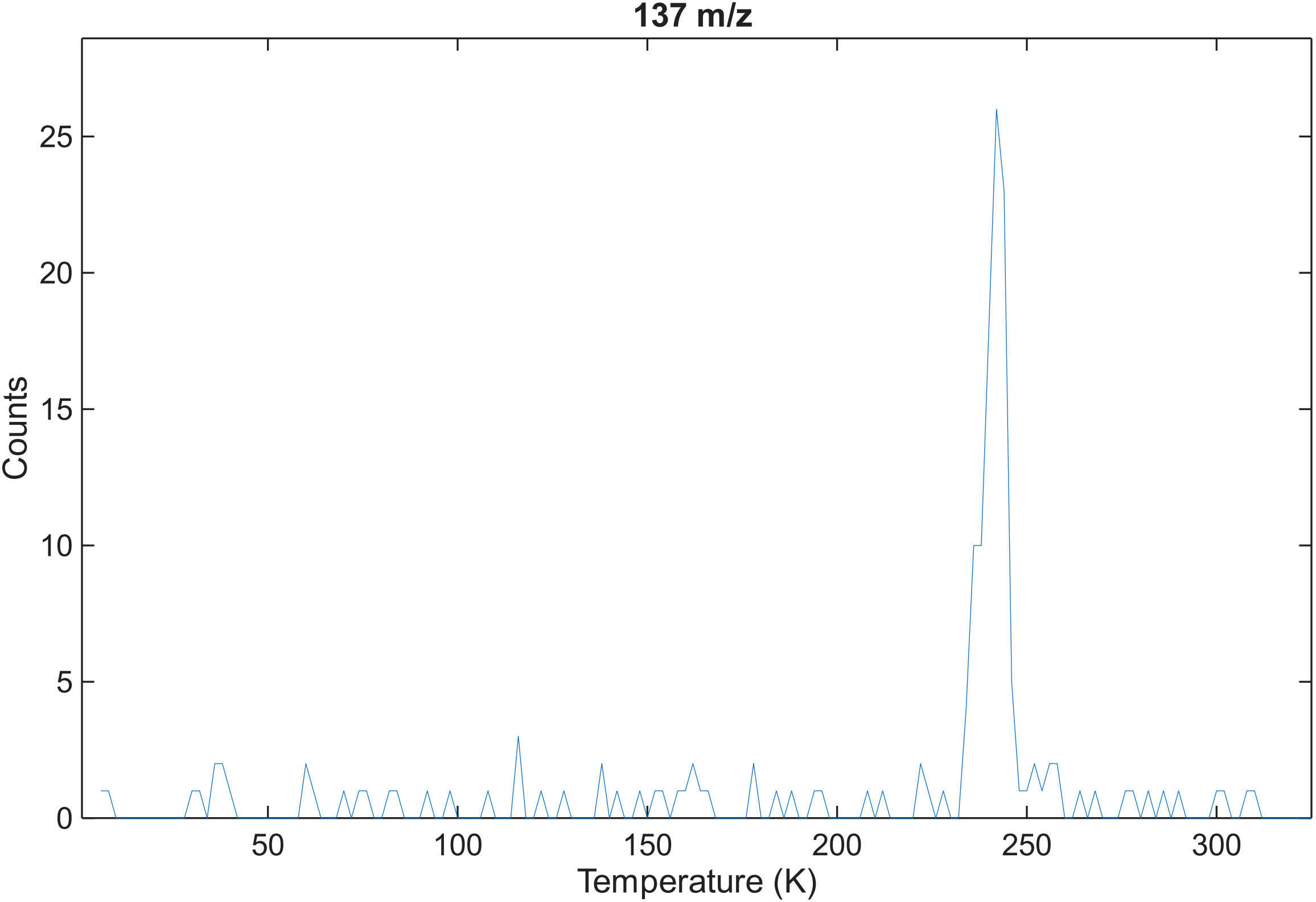
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Counts
Temperature (K)
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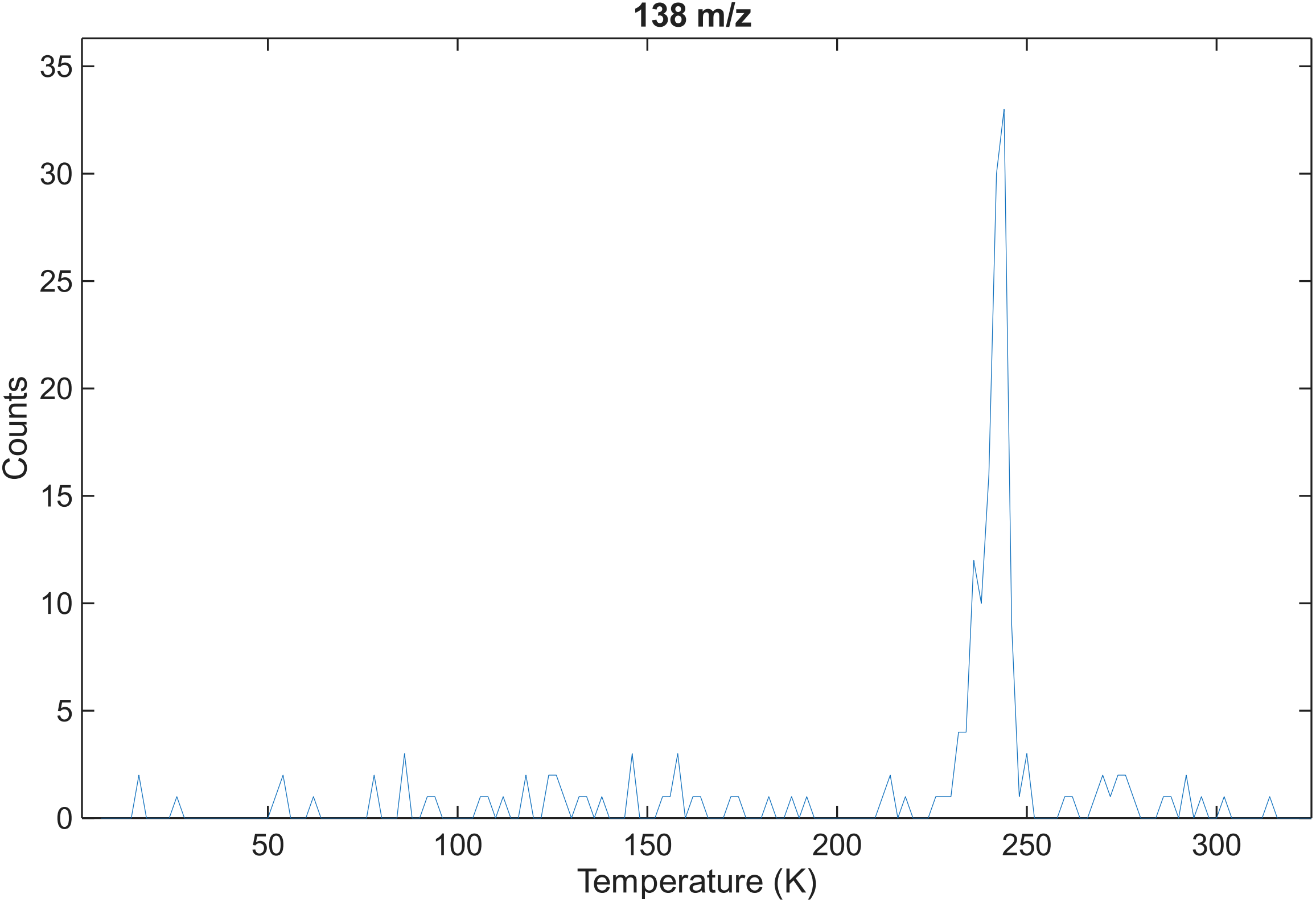
138 m/z
Counts
Temperature (K)
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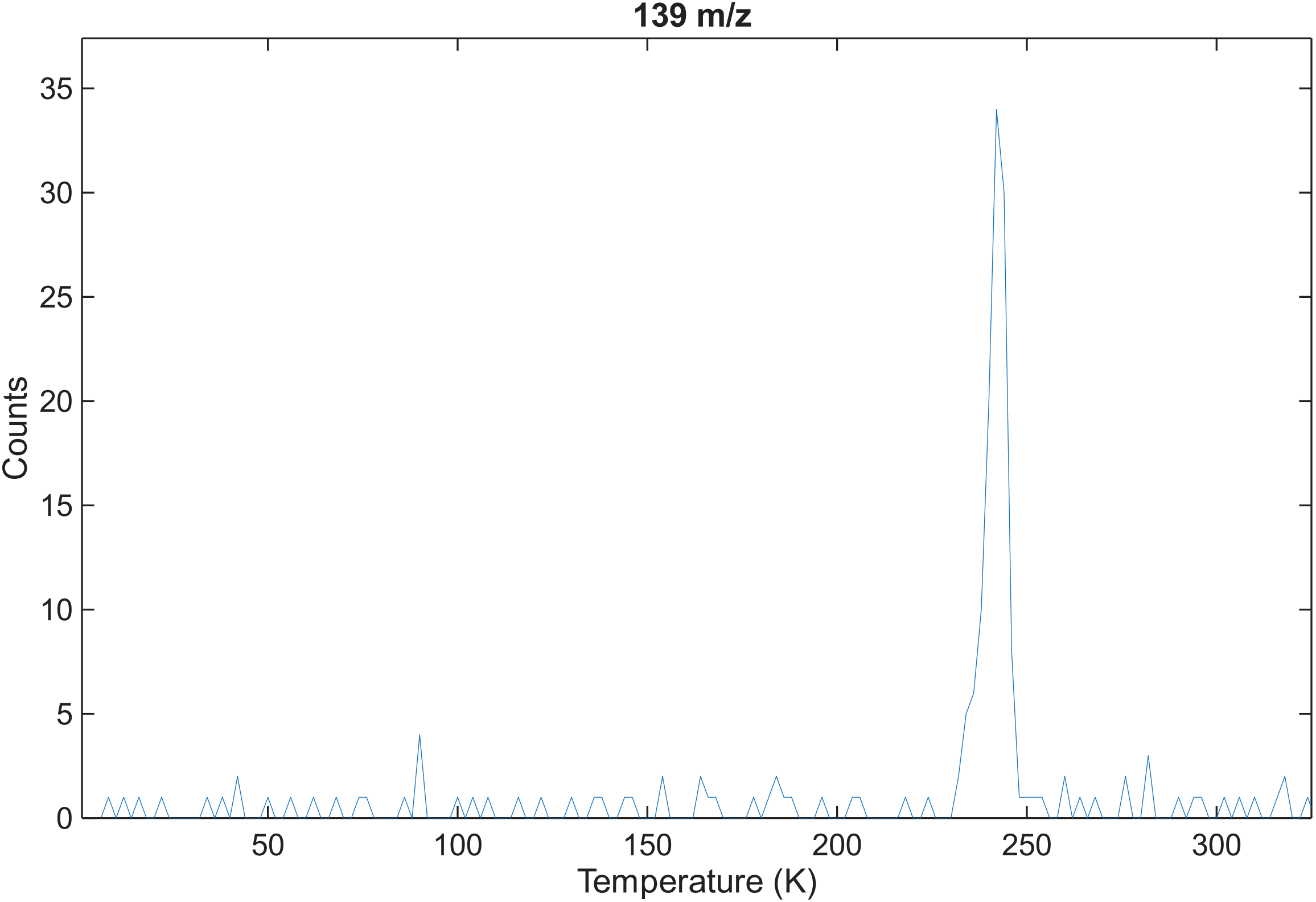
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Temperature (K)
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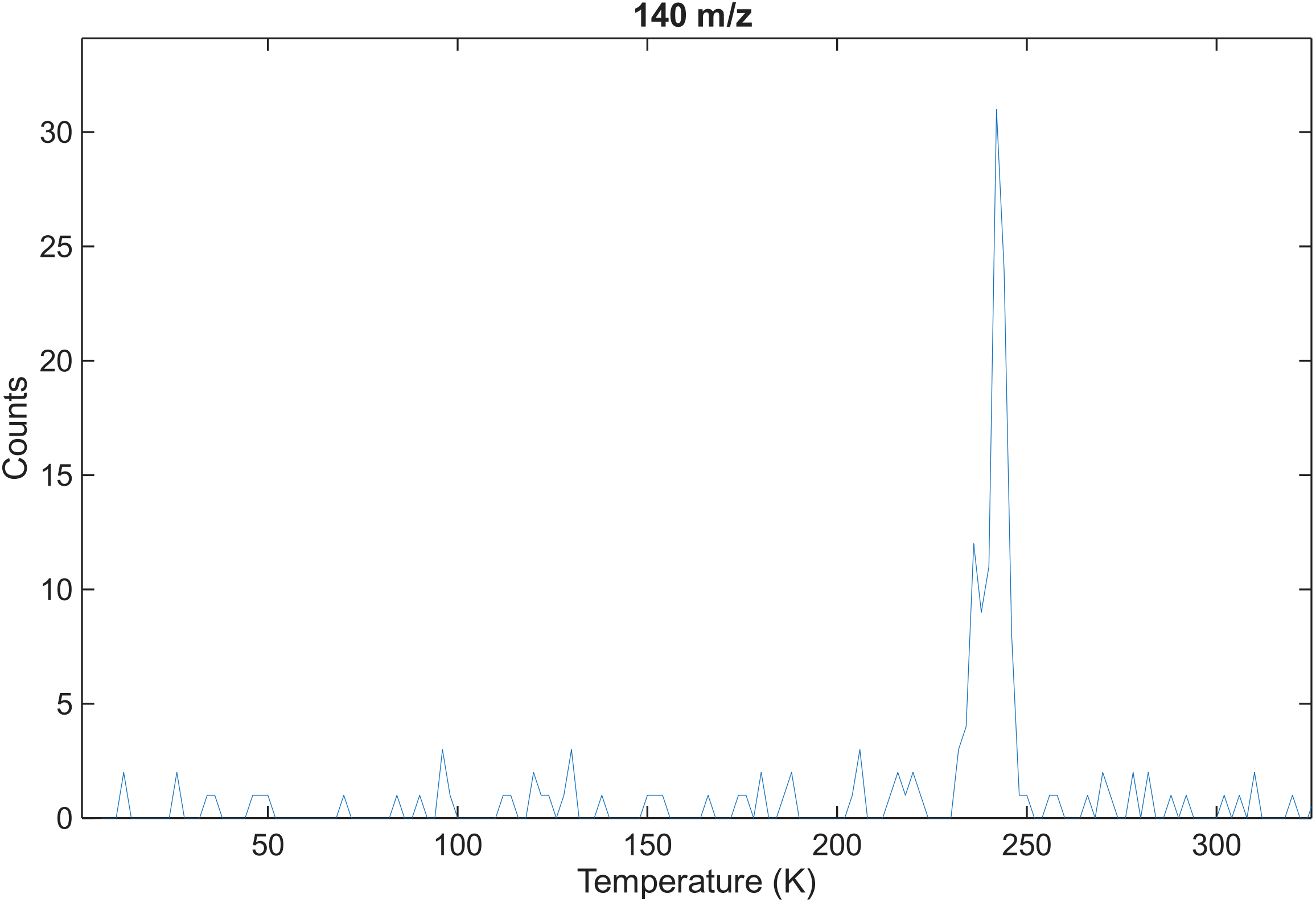
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Counts
Temperature (K)
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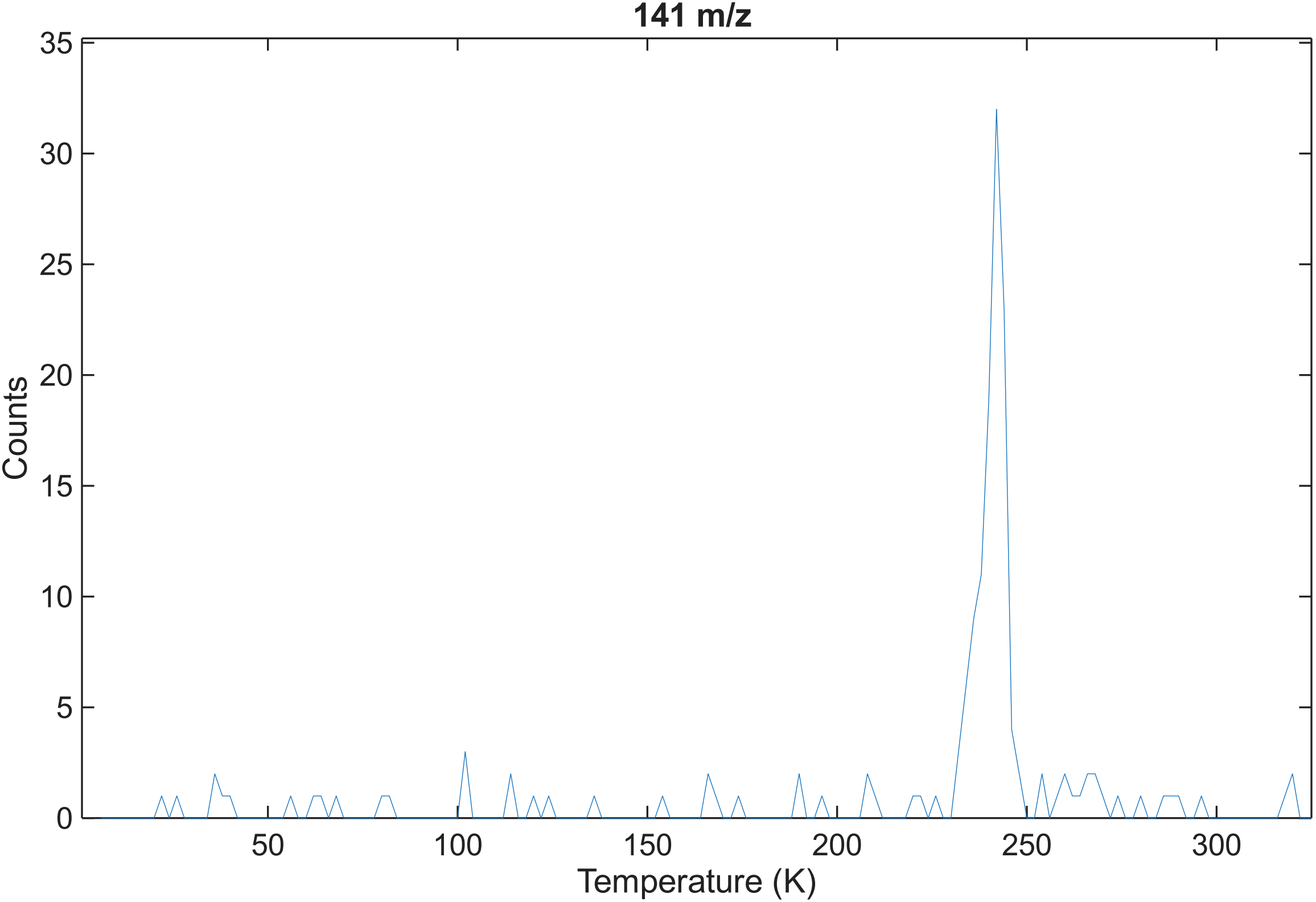
141 m/z
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30
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15
10
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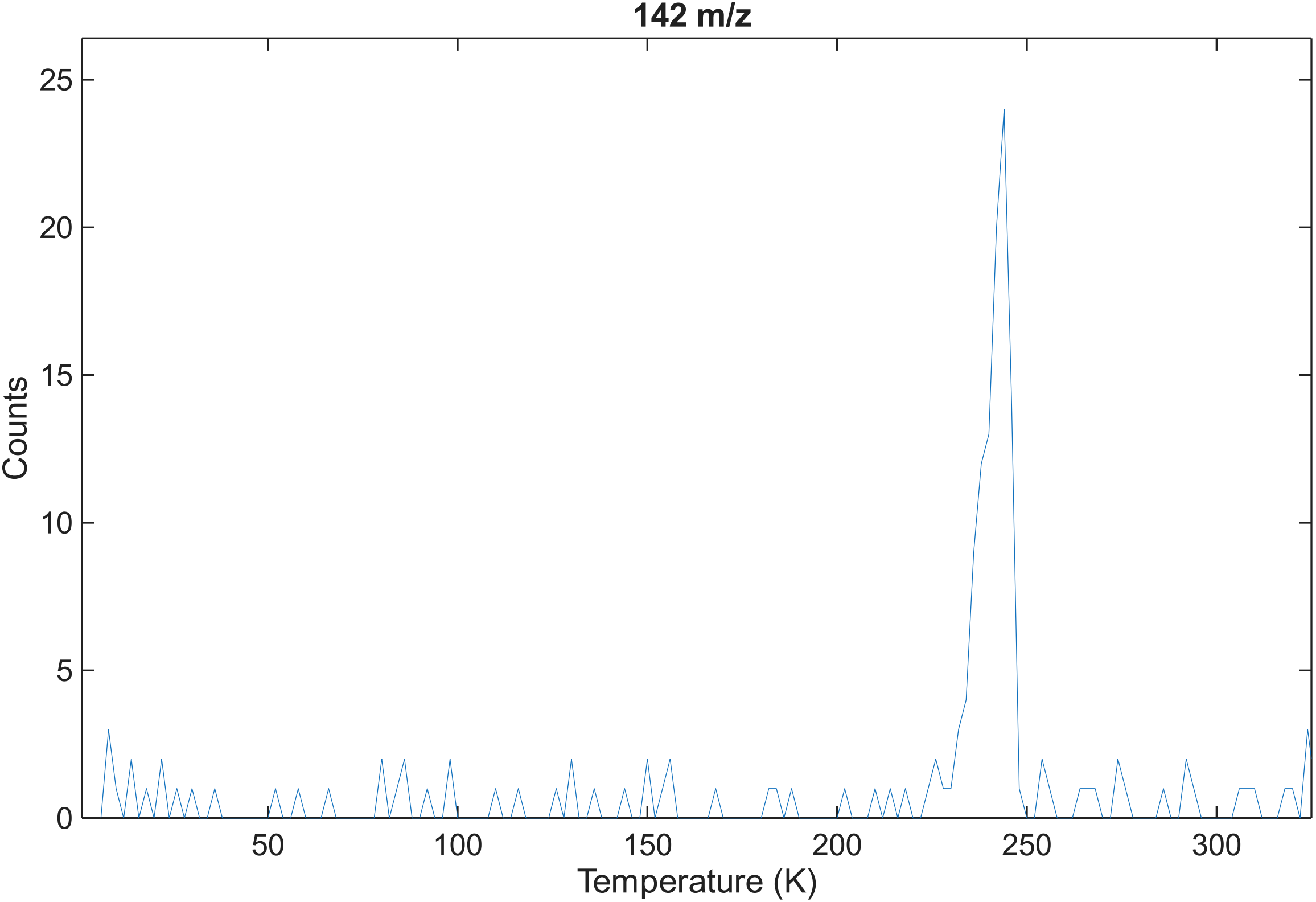
0
Counts
50
100
150
200
250
300
Temperature (K)


142 m/z
Counts
Temperature (K)
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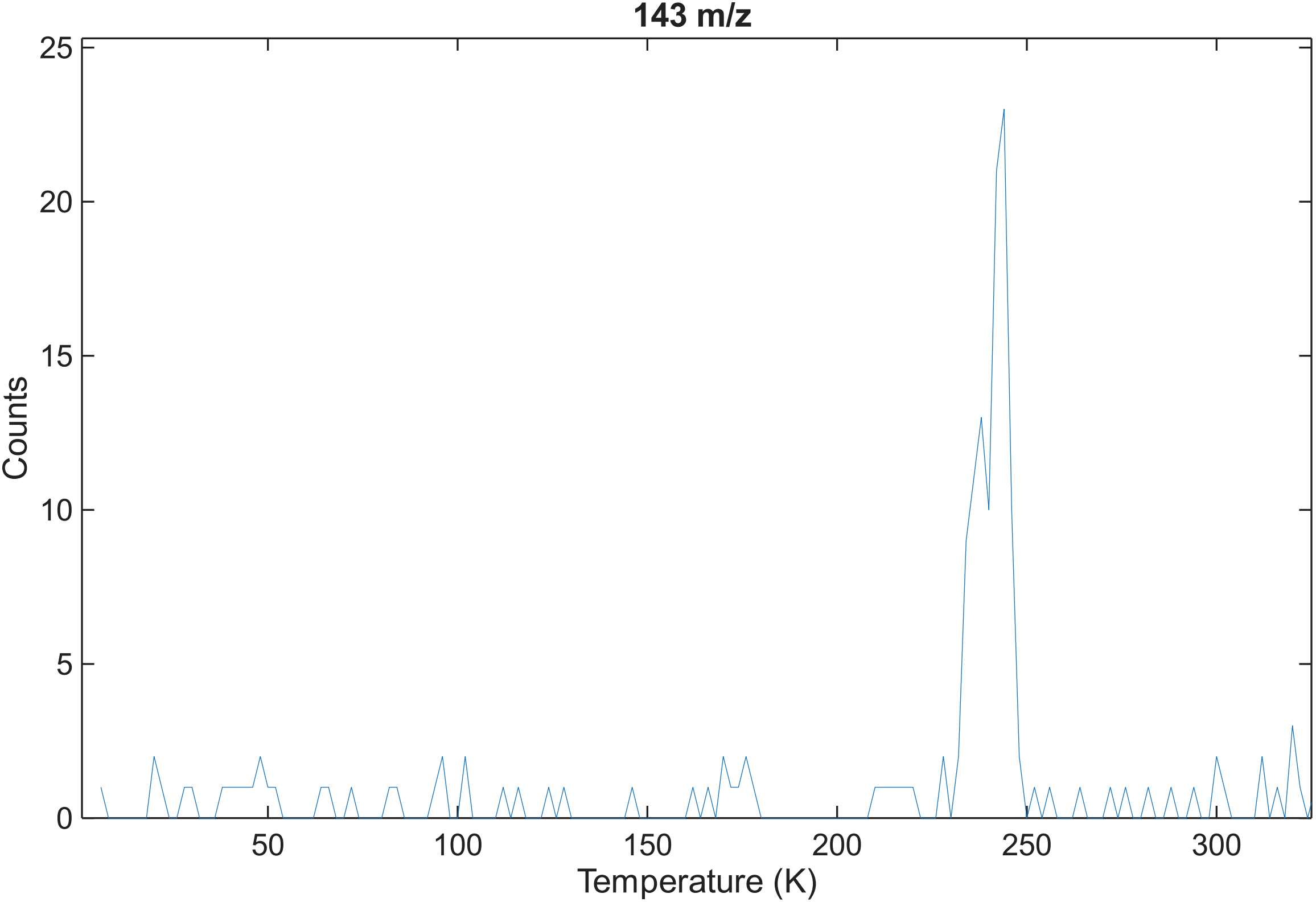
143 m/z
25
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Counts
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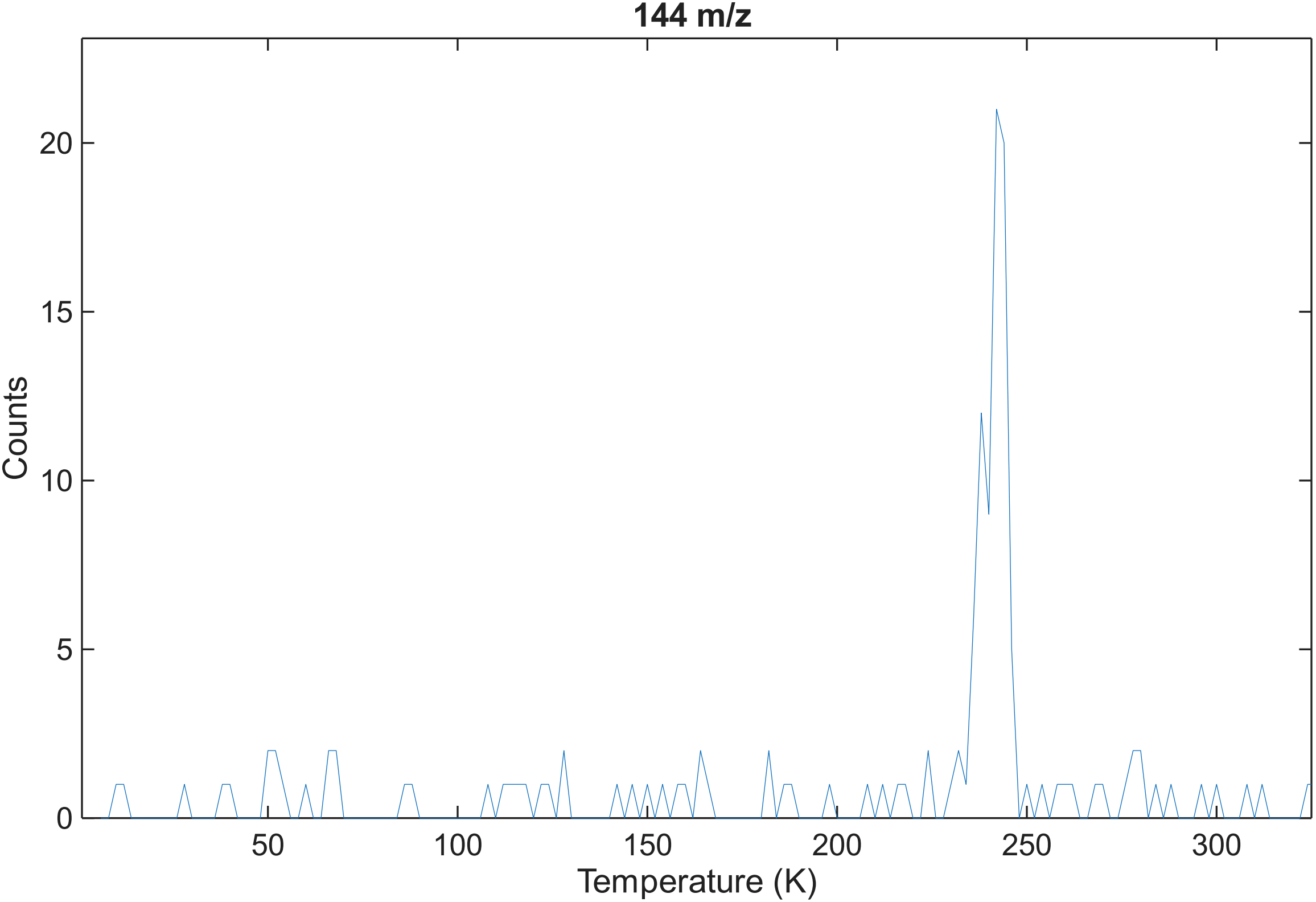
Temperature (K)


144 m/z
Counts
0
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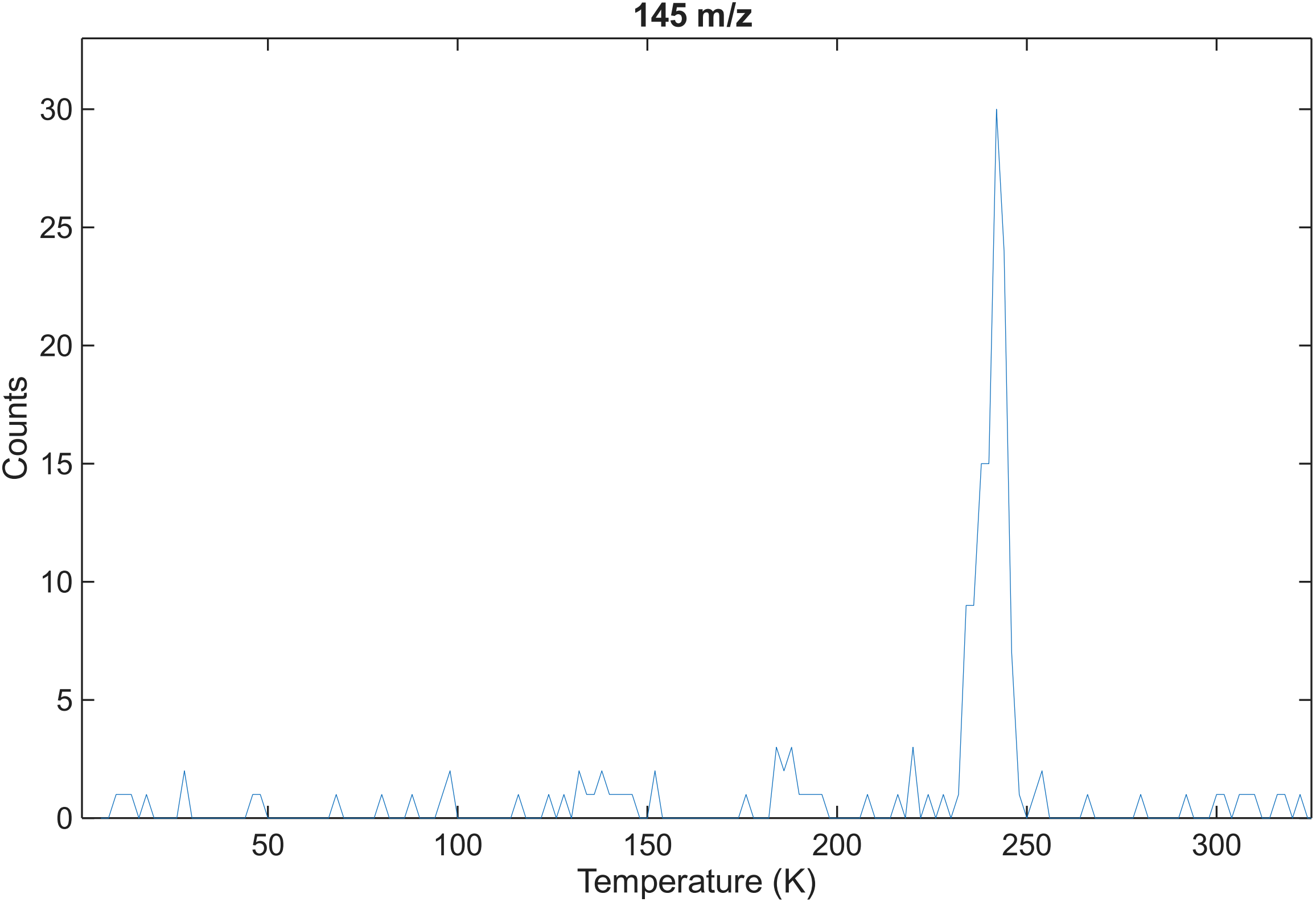
300
Temperature (K)


145 m/z
Counts
Temperature (K)
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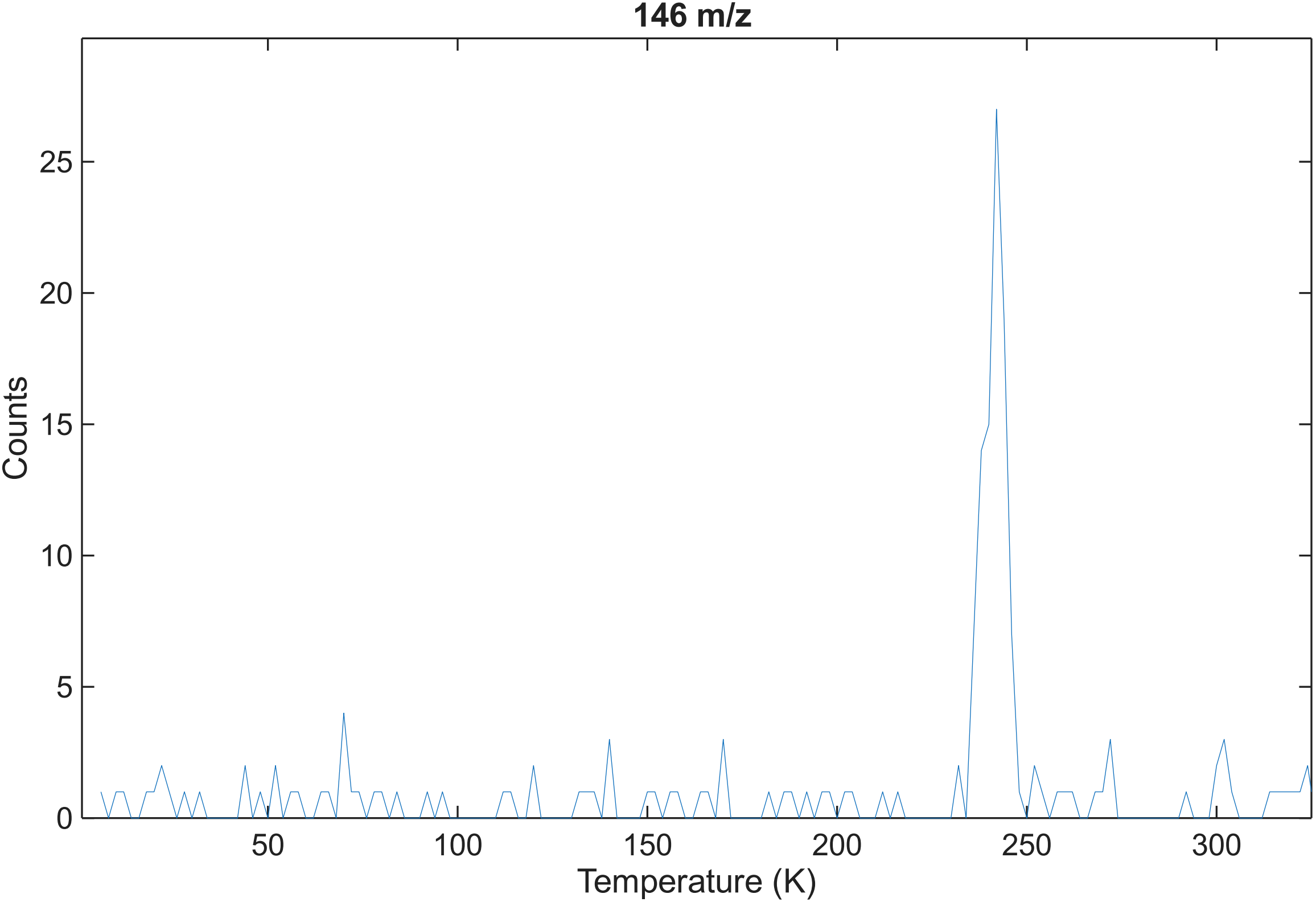
146 m/z
Counts
0
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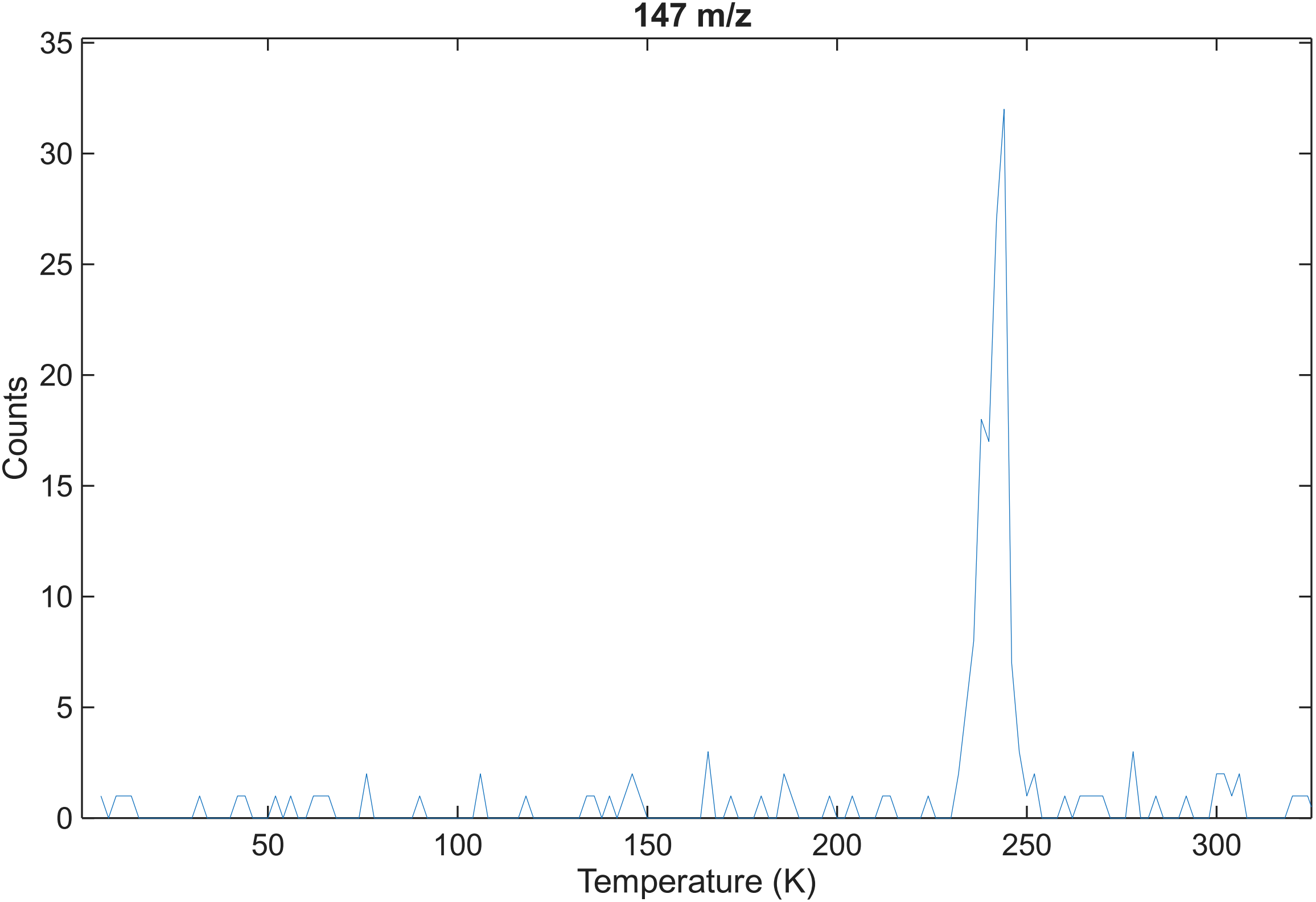
Temperature (K)


147 m/z
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Counts
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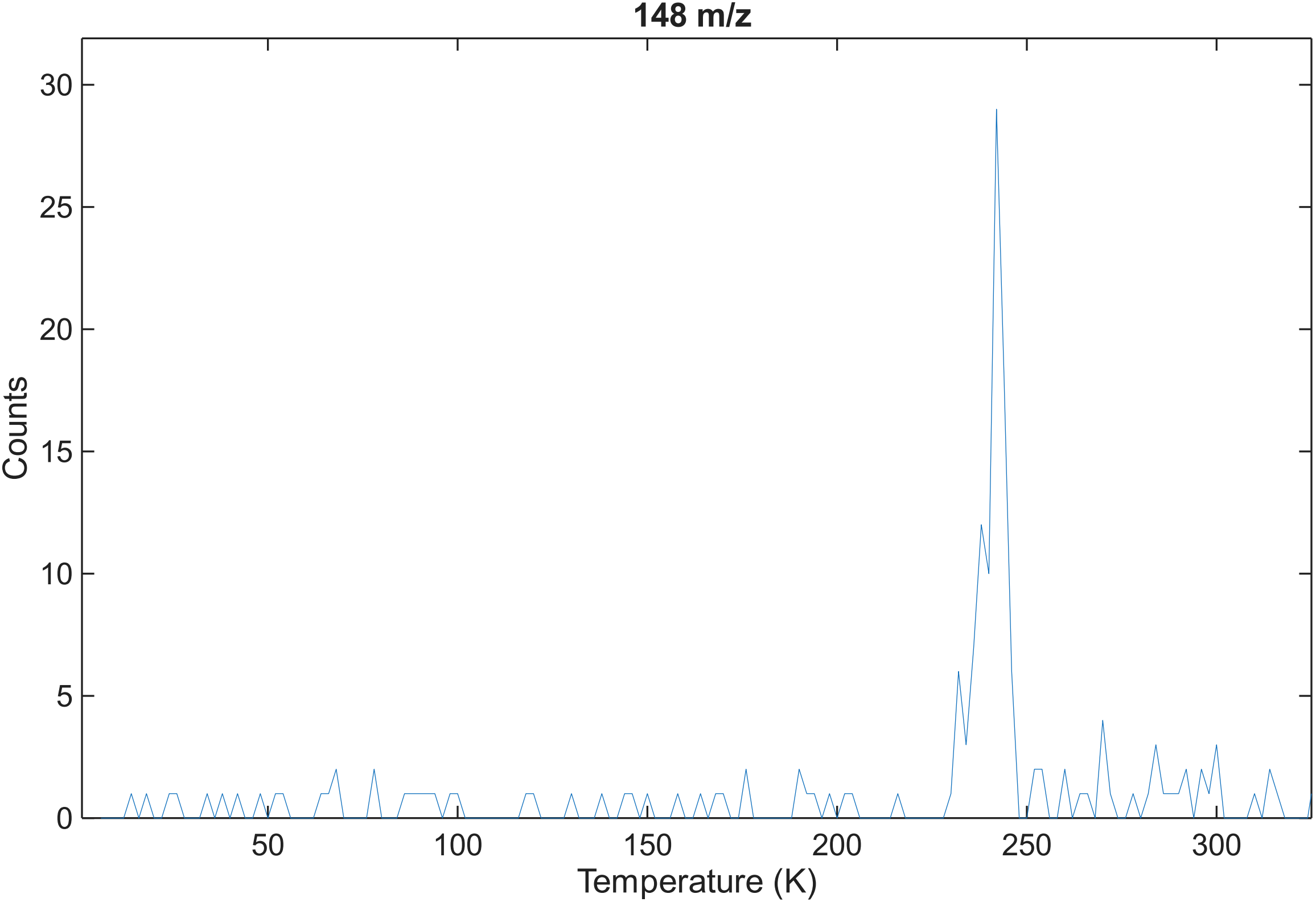
Temperature (K)


148 m/z
Counts
Temperature (K)
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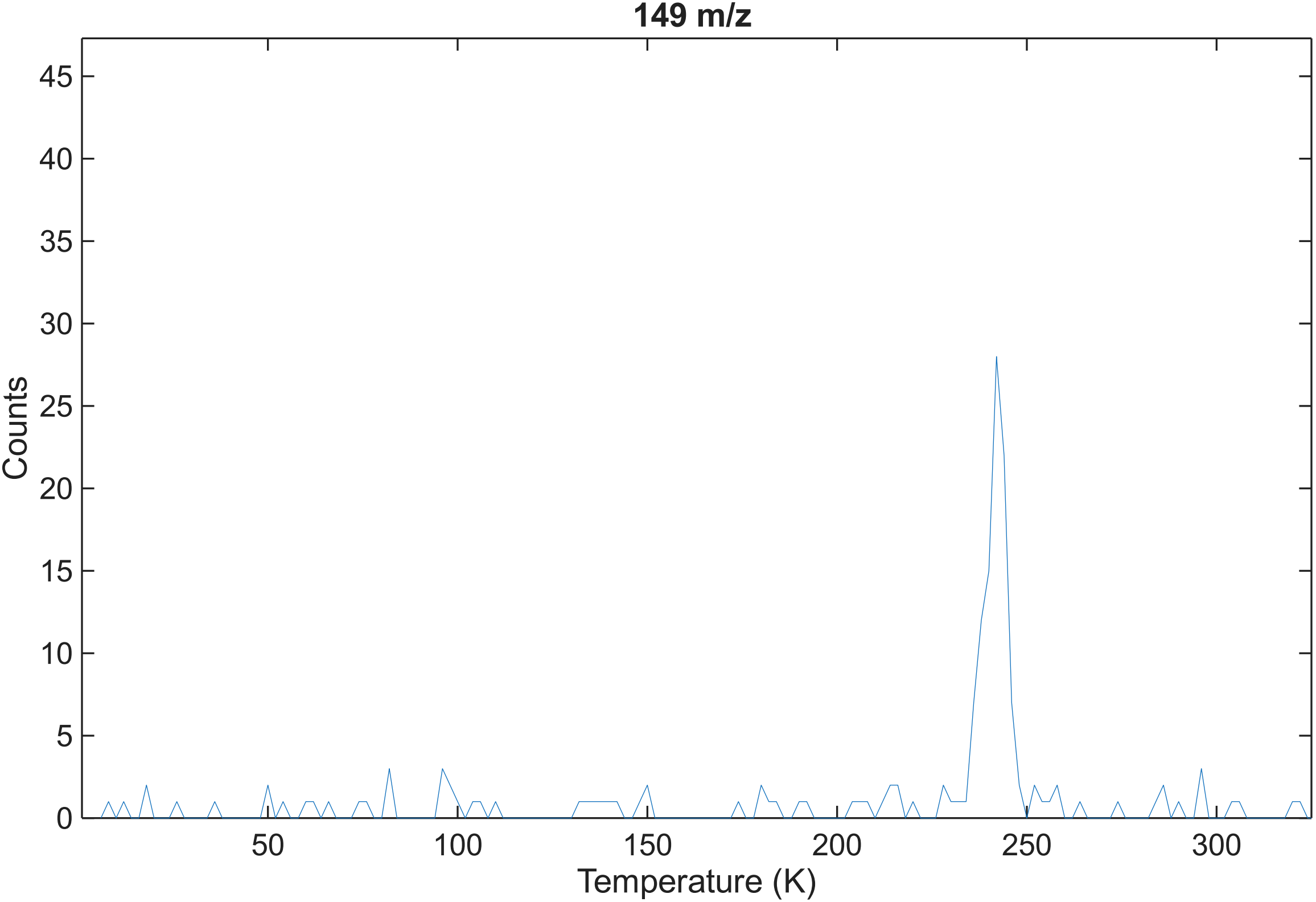
149 m/z
Counts
Temperature (K)
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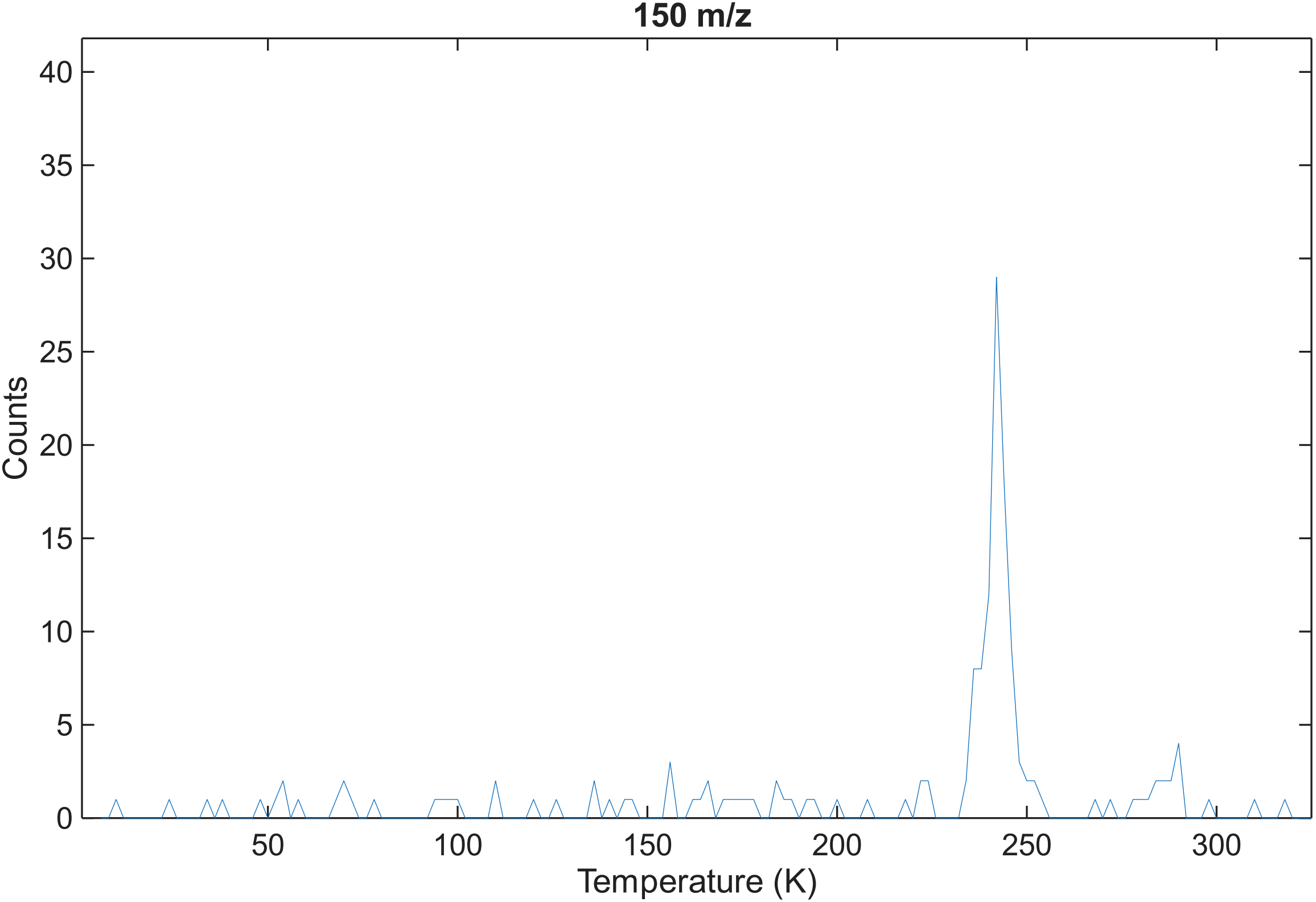
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Counts
Temperature (K)
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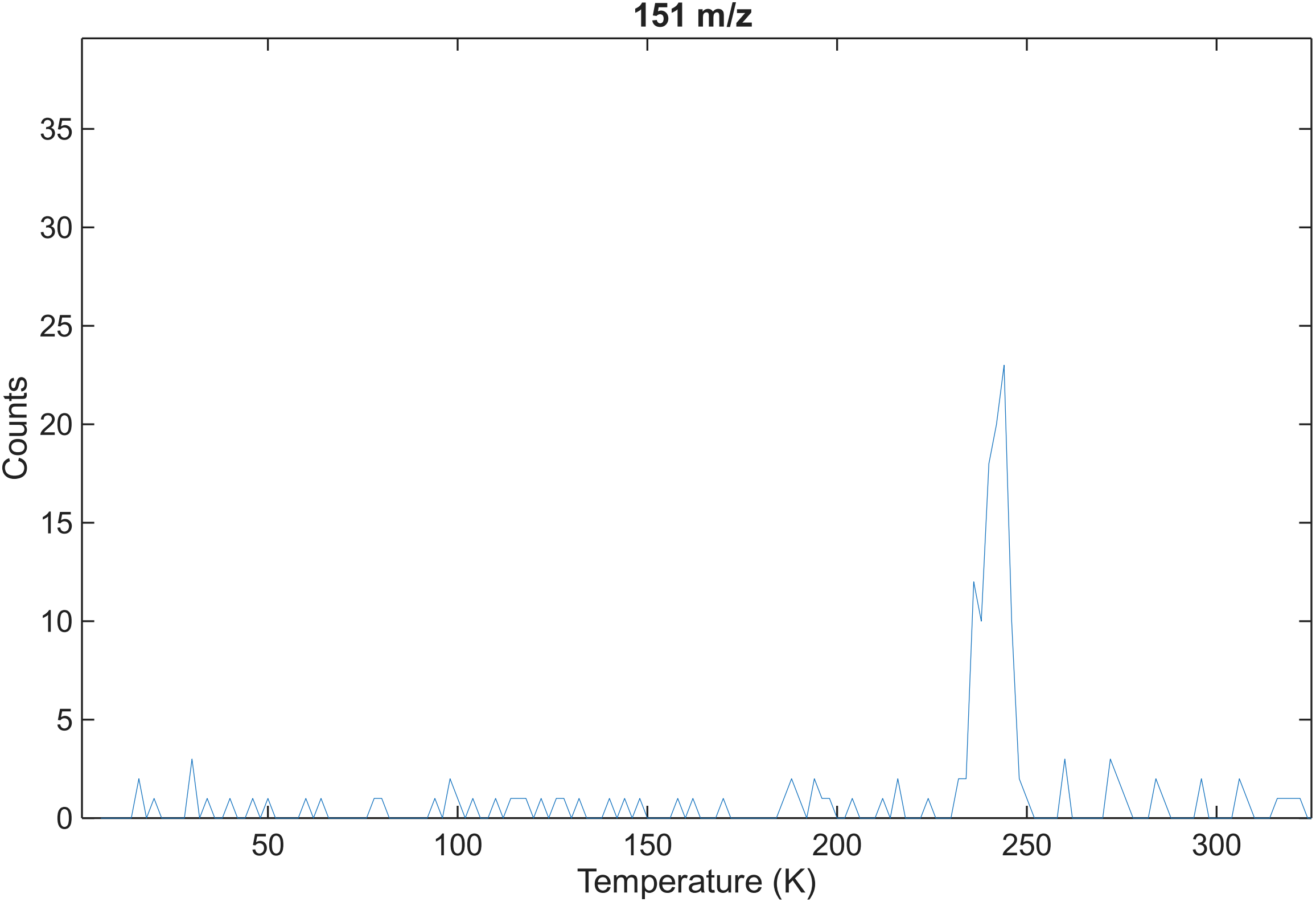
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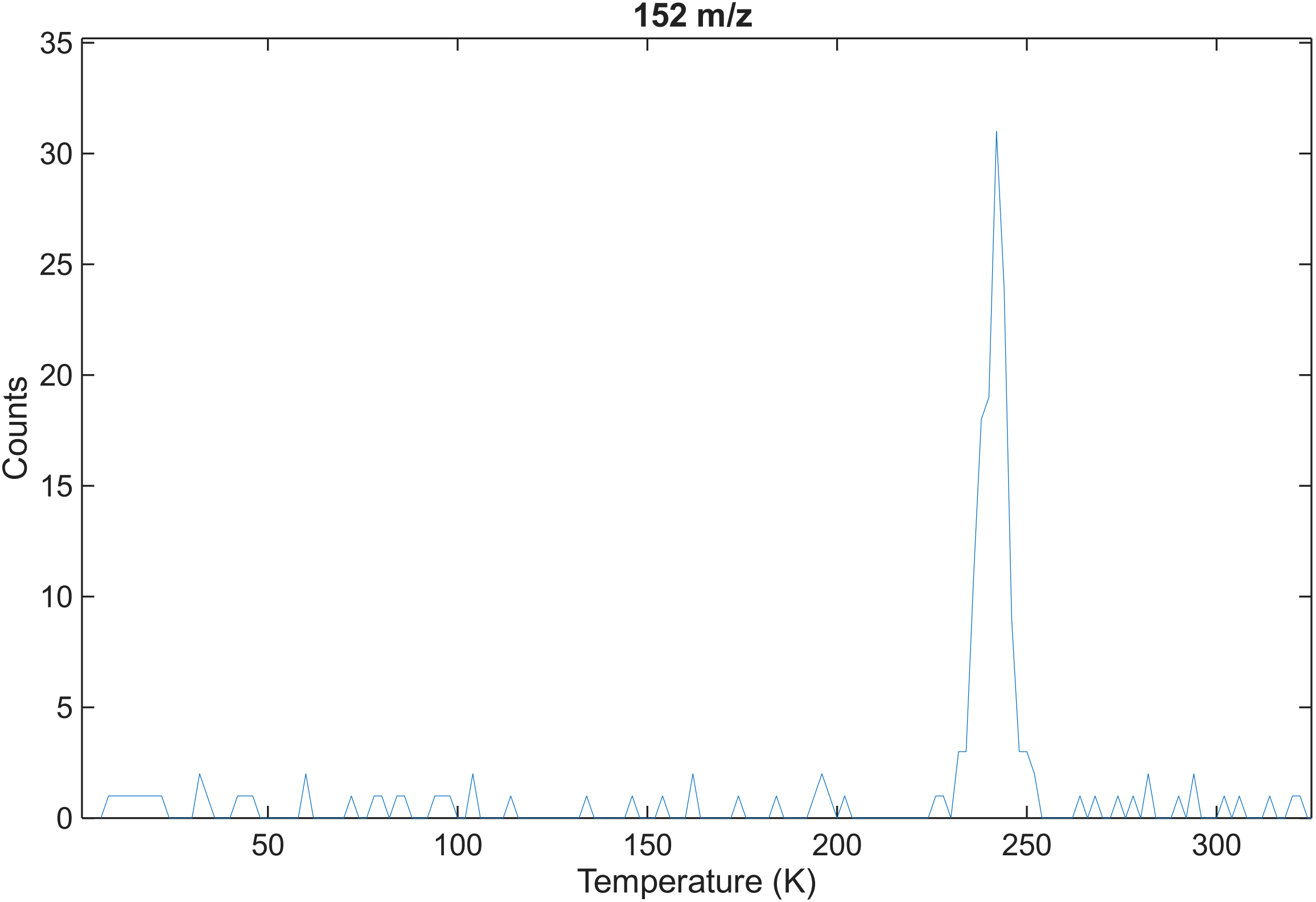
152 m/z
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Counts
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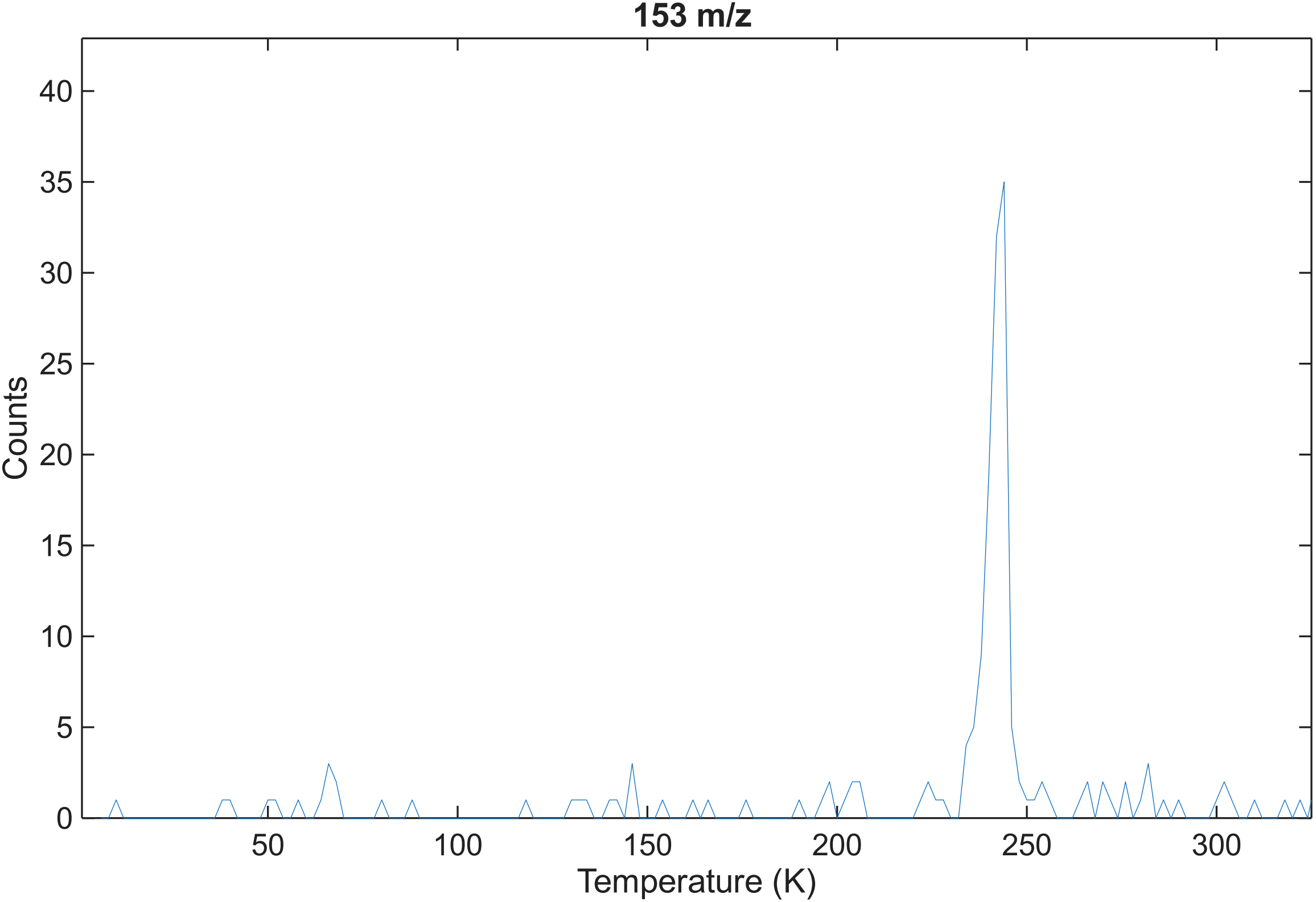
Temperature (K)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Counts
Temperature (K)
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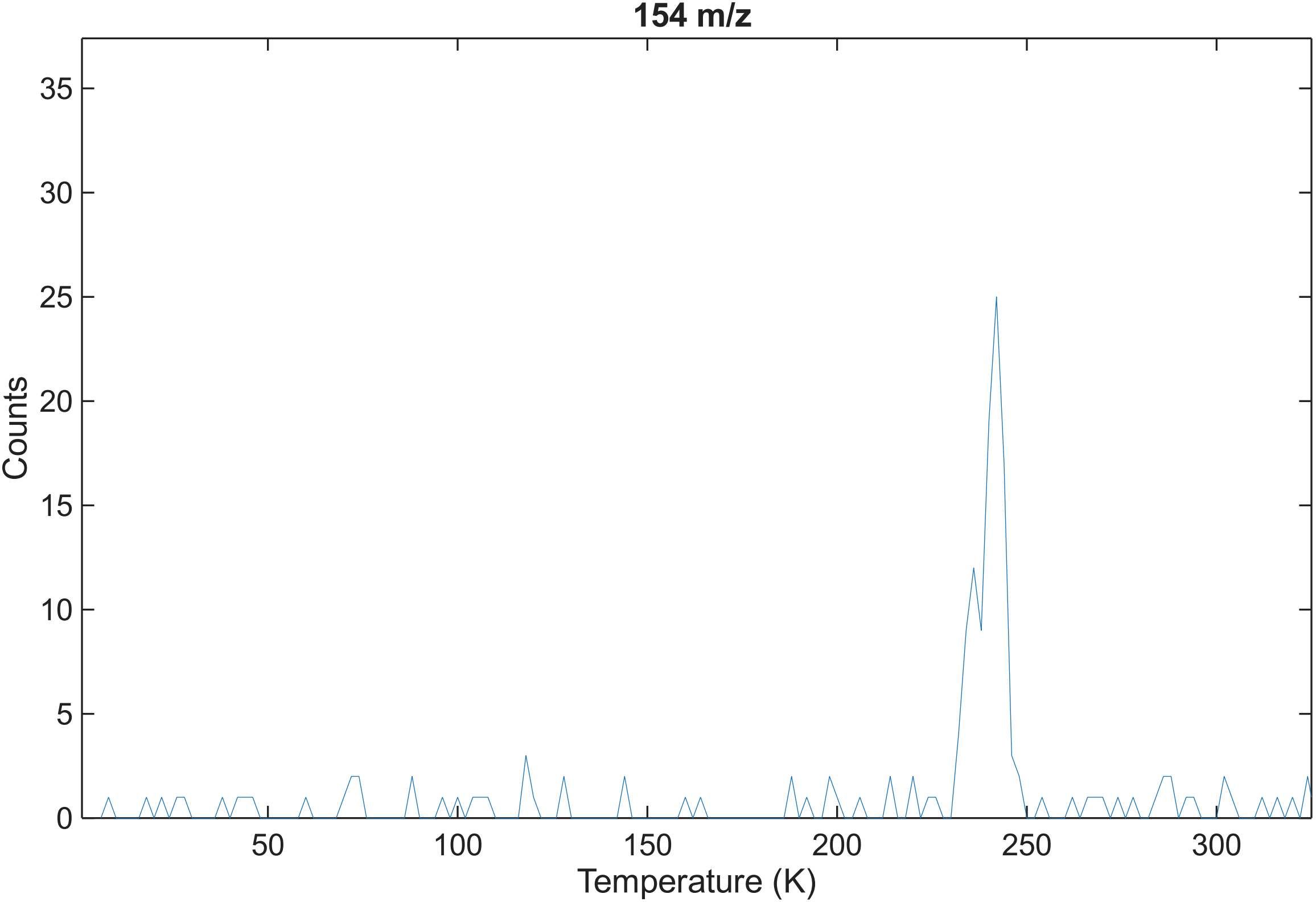
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Counts
Temperature (K)
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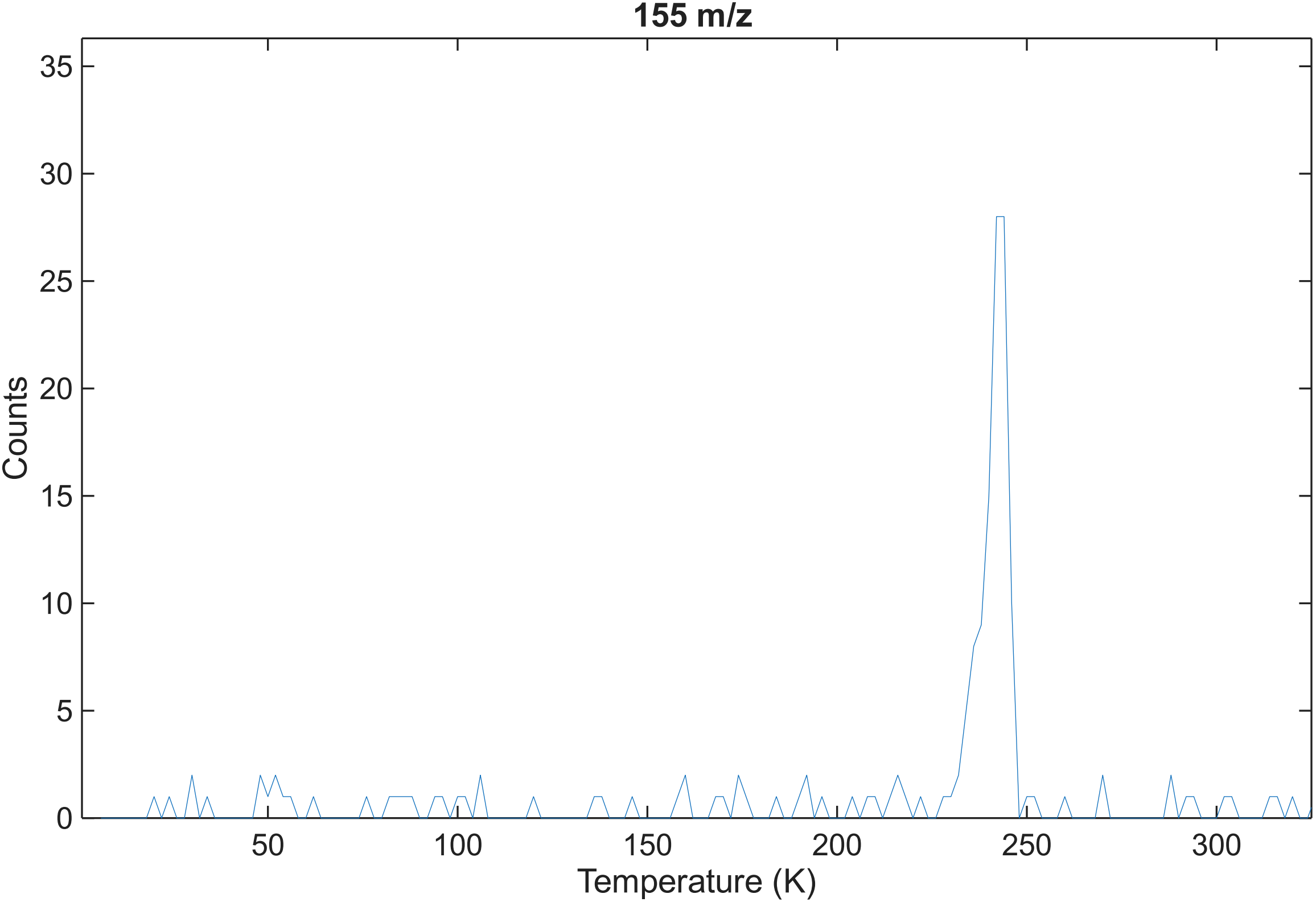
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Temperature (K)
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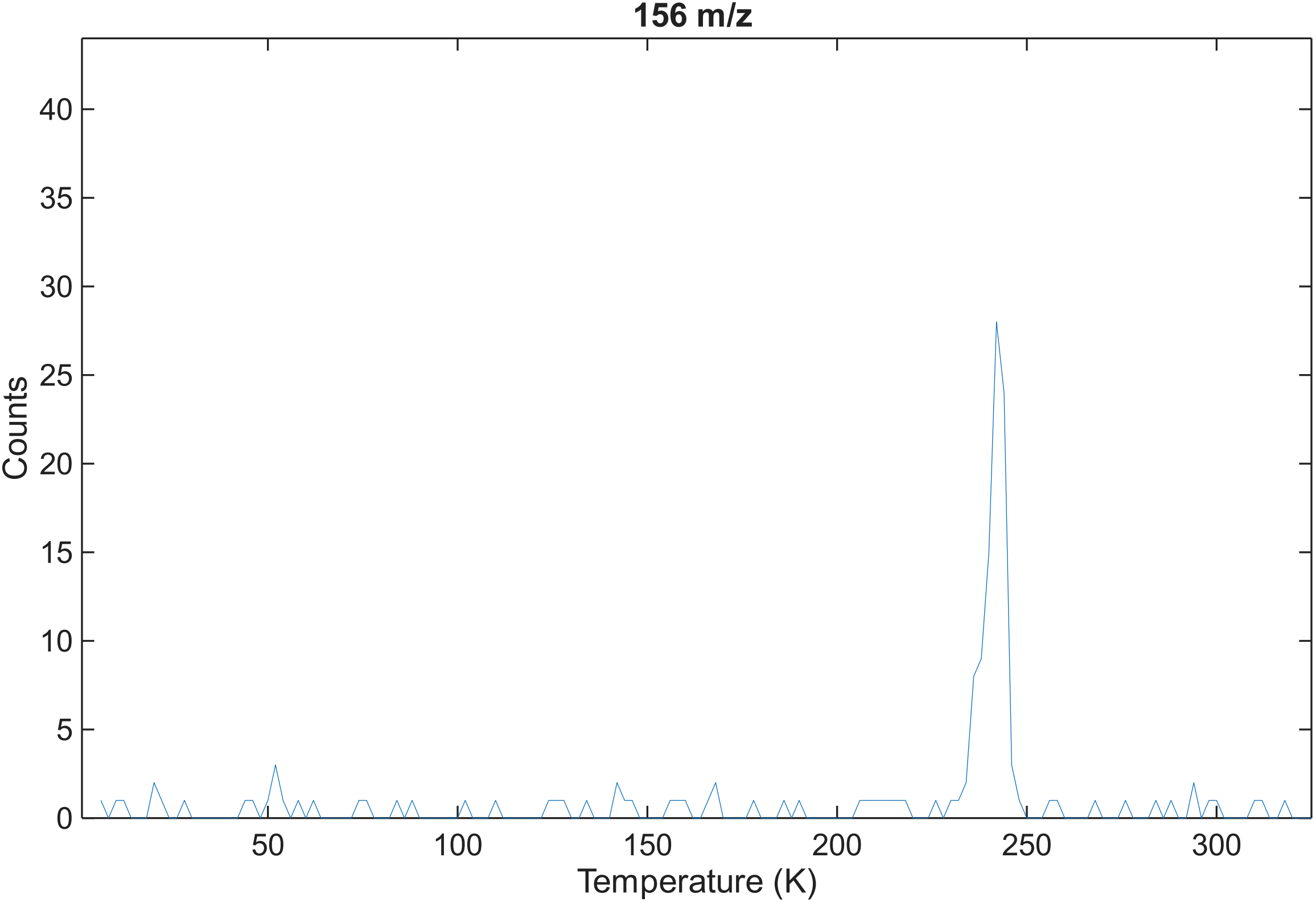
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Counts
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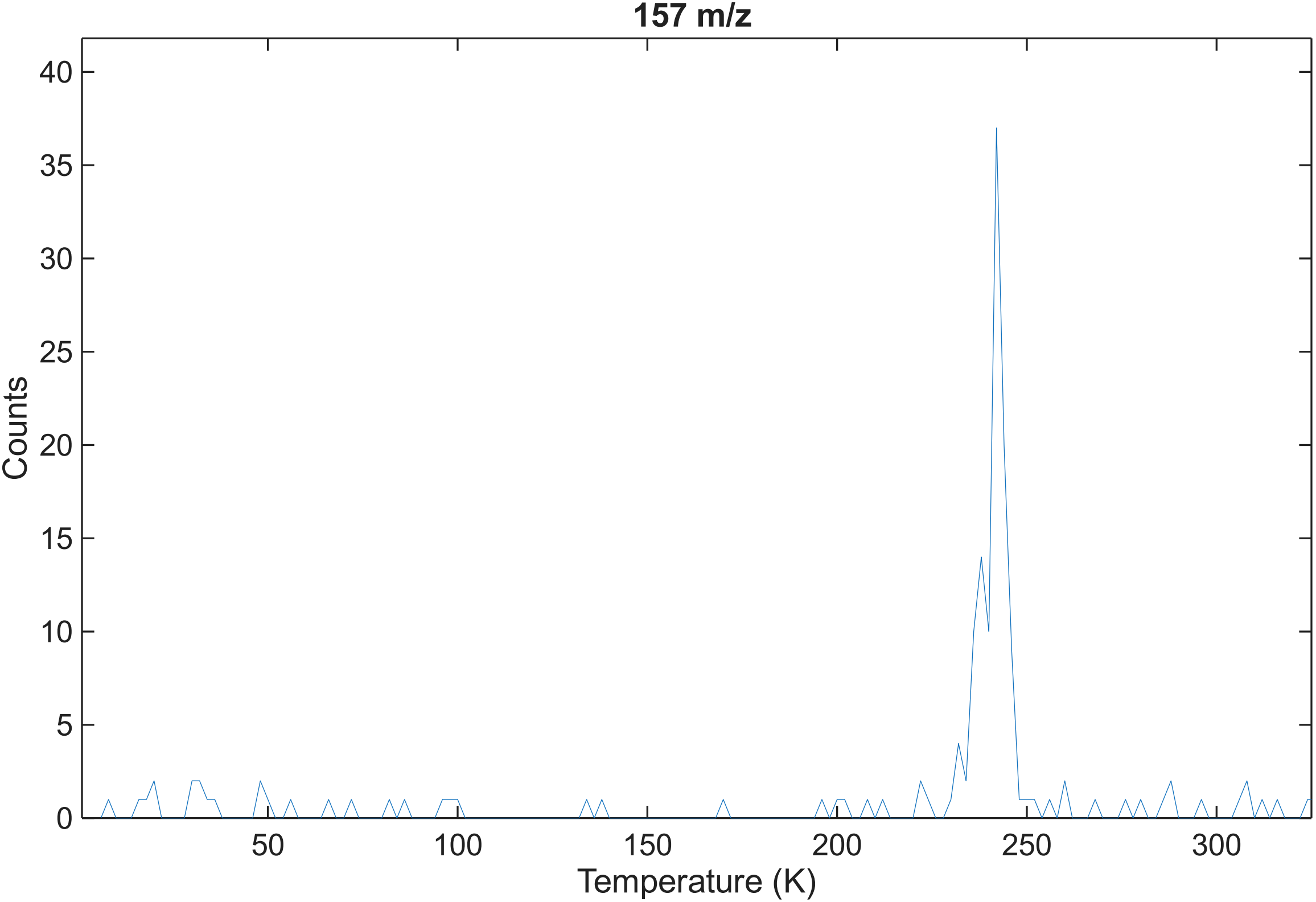
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Counts
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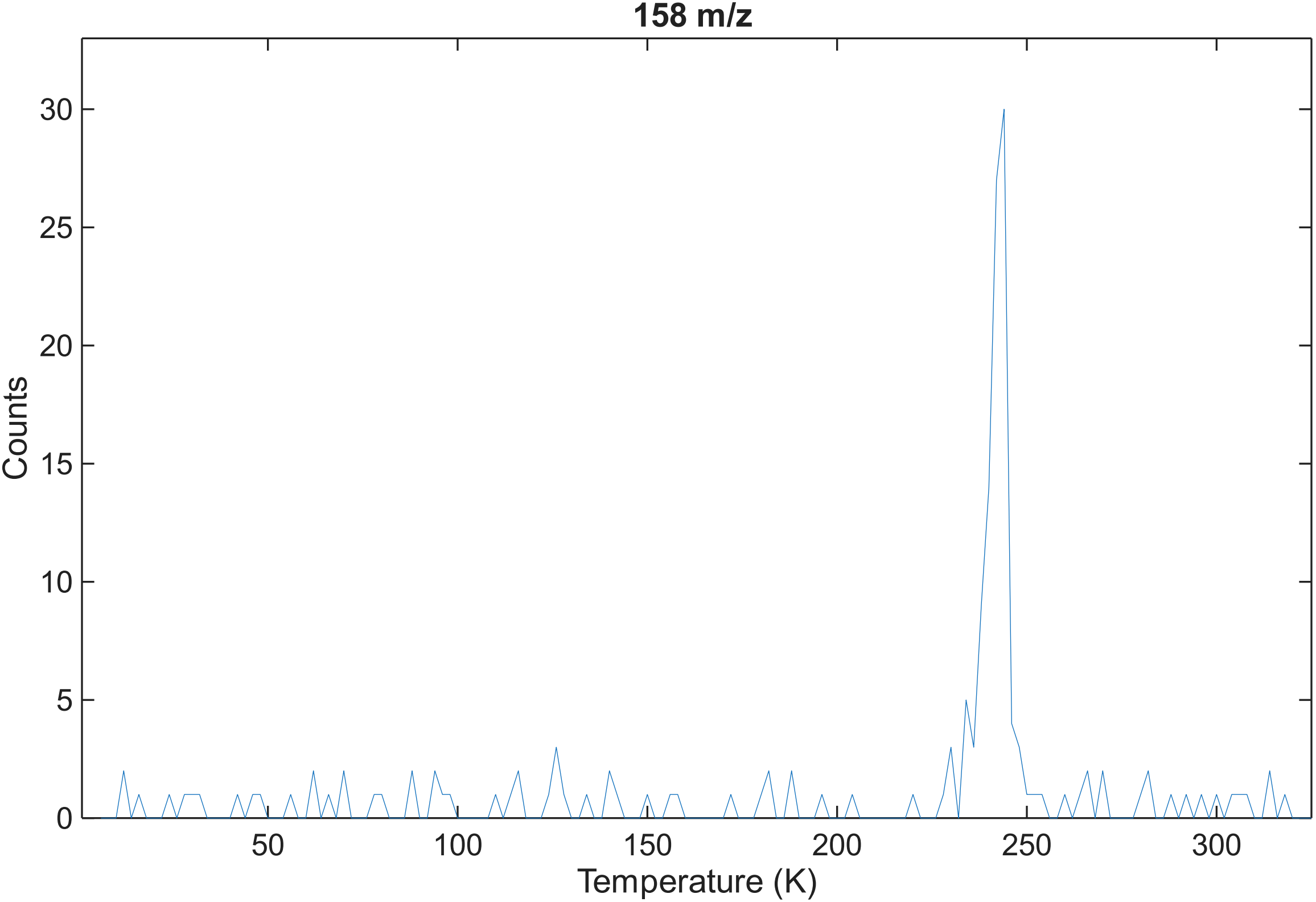
158 m/z
Counts
Temperature (K)
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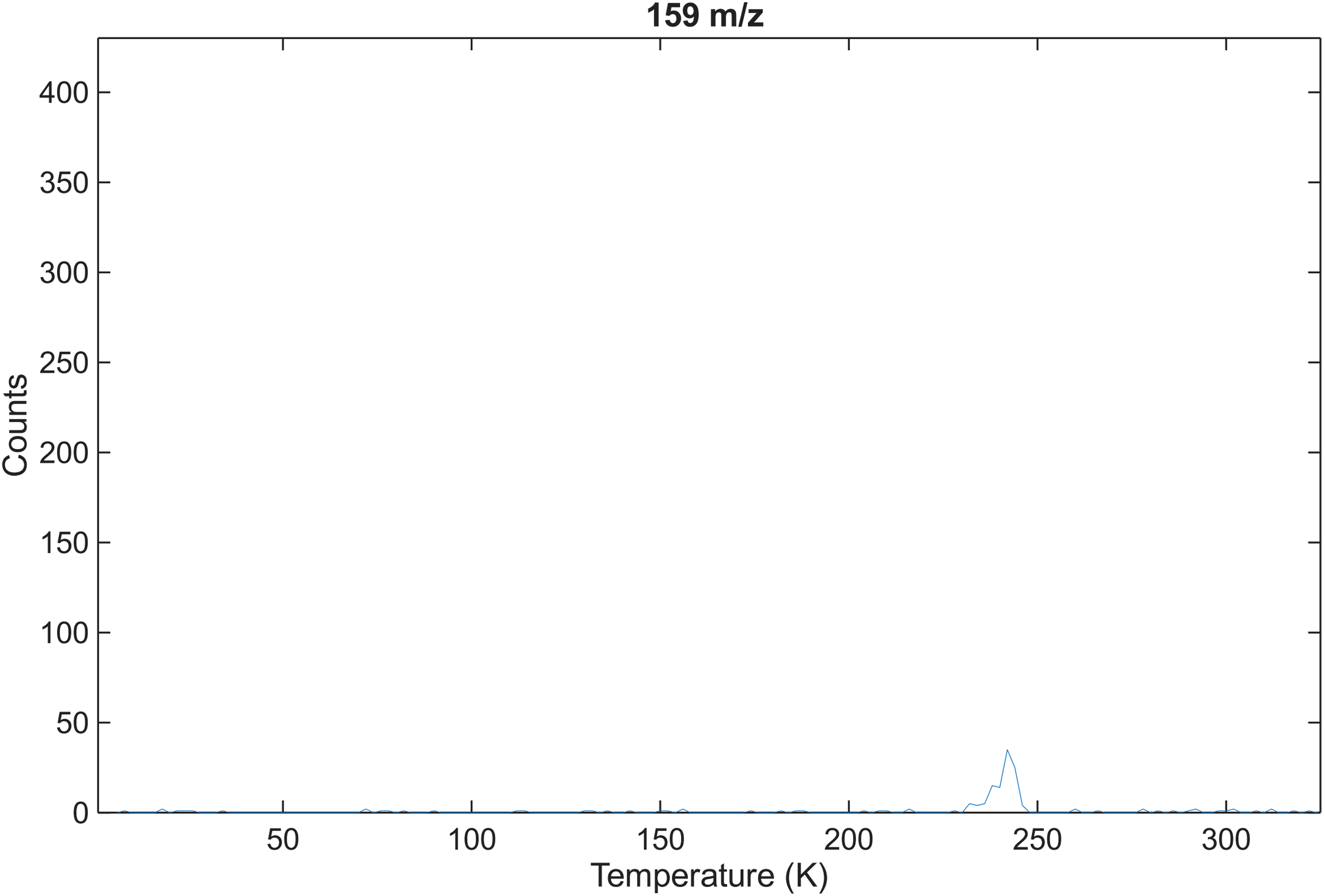
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Counts
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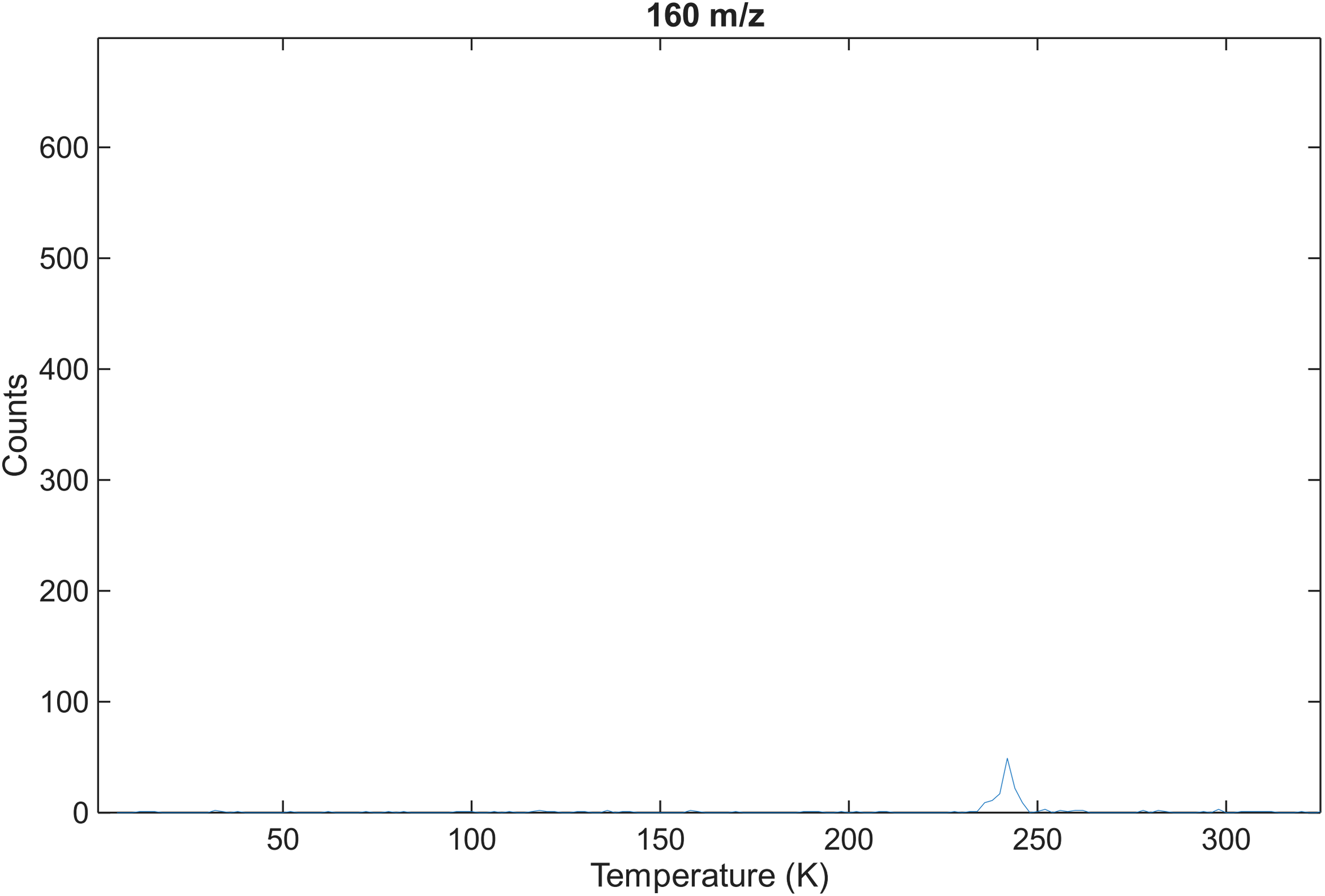
160 m/z
Counts
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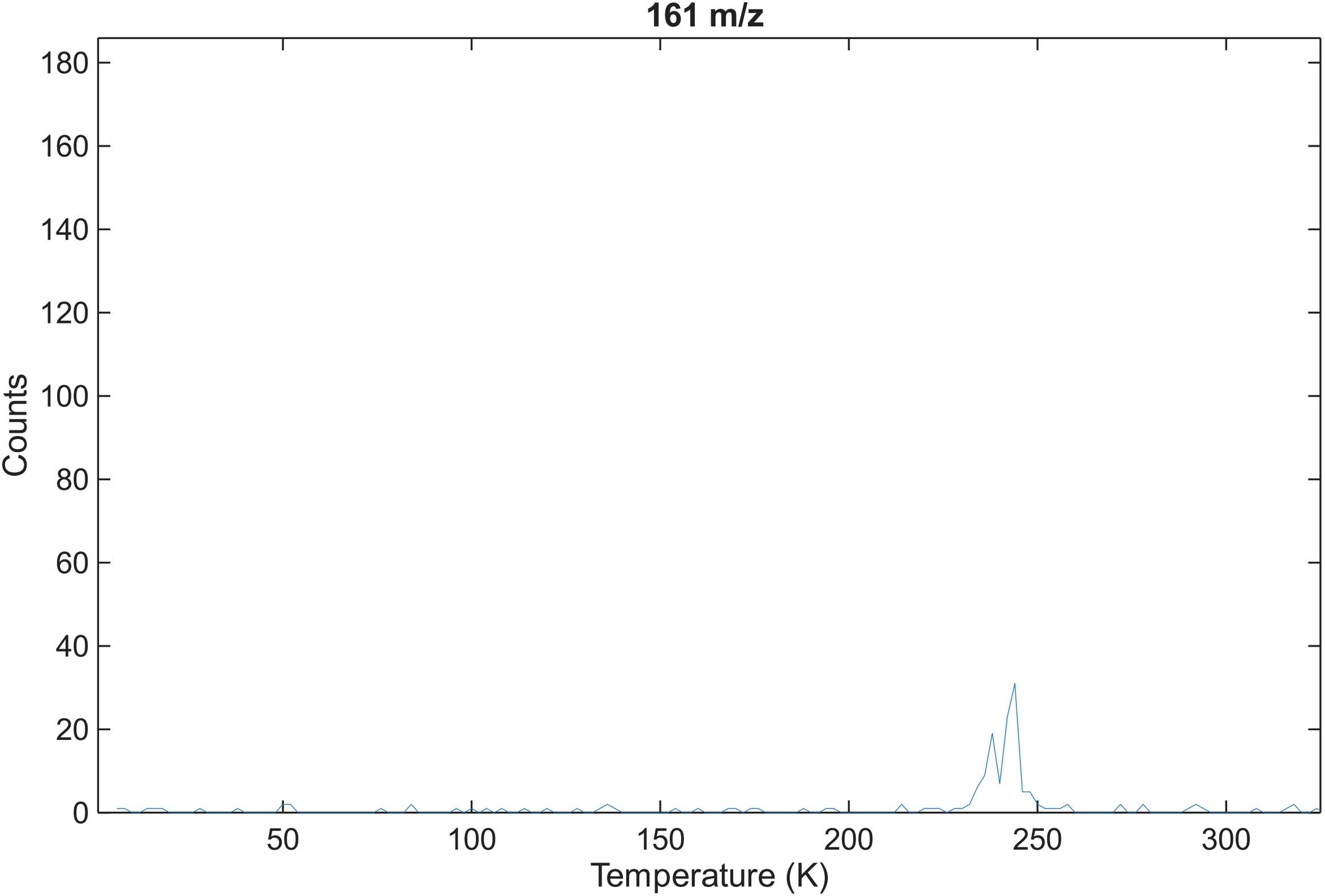
Temperature (K)


161 m/z
Counts
Temperature (K)
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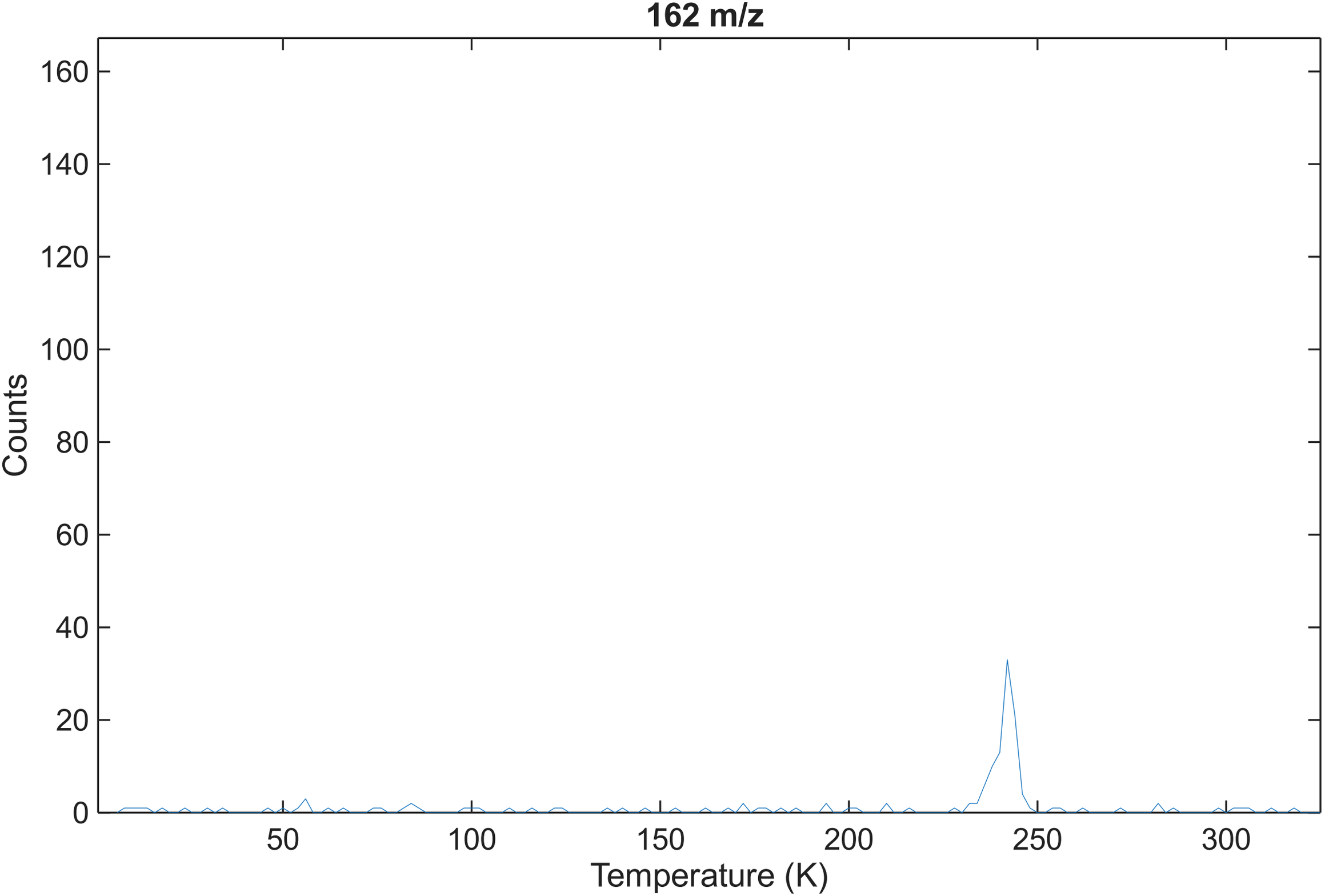
162 m/z
Counts
Temperature (K)
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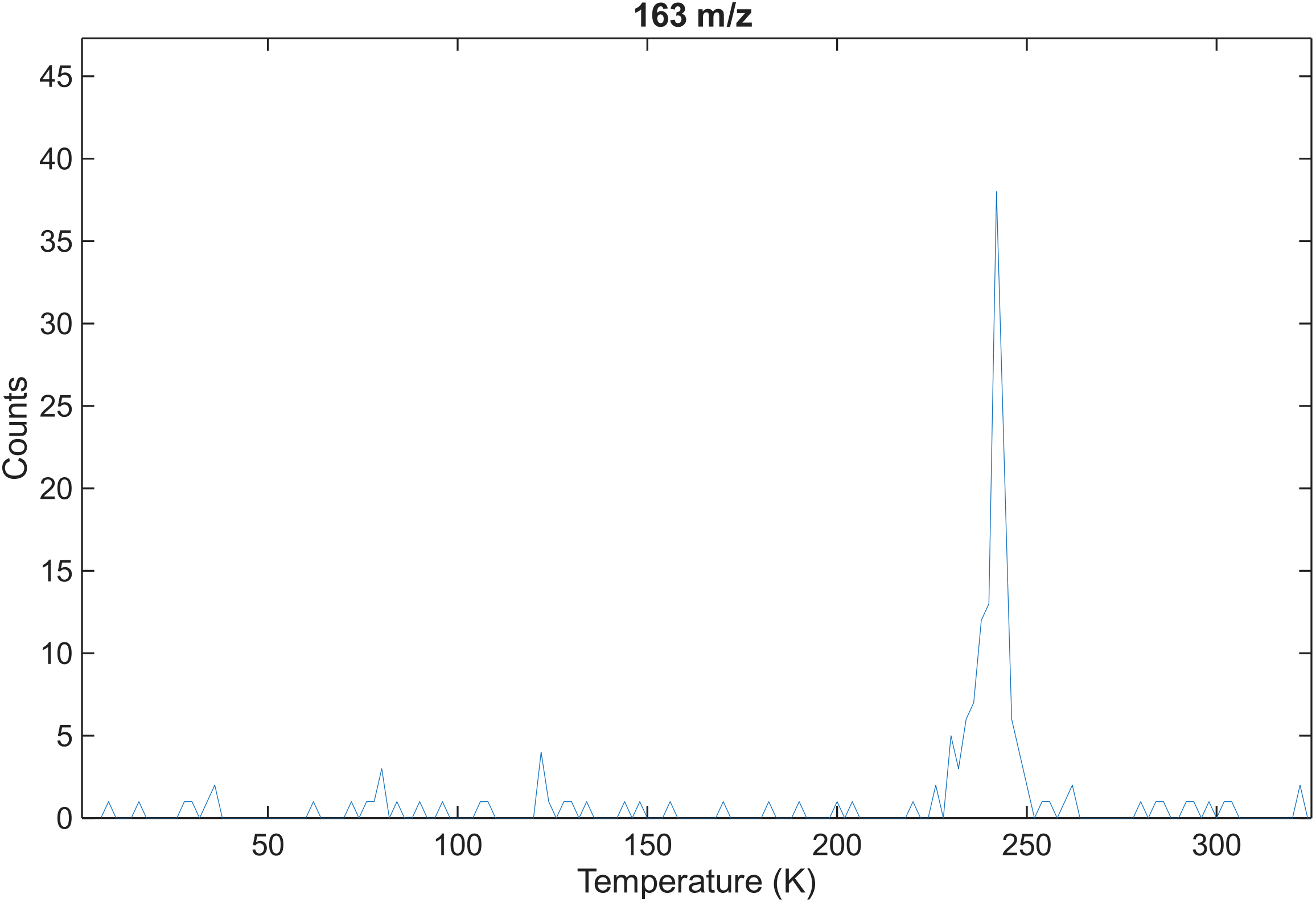
163 m/z
Counts
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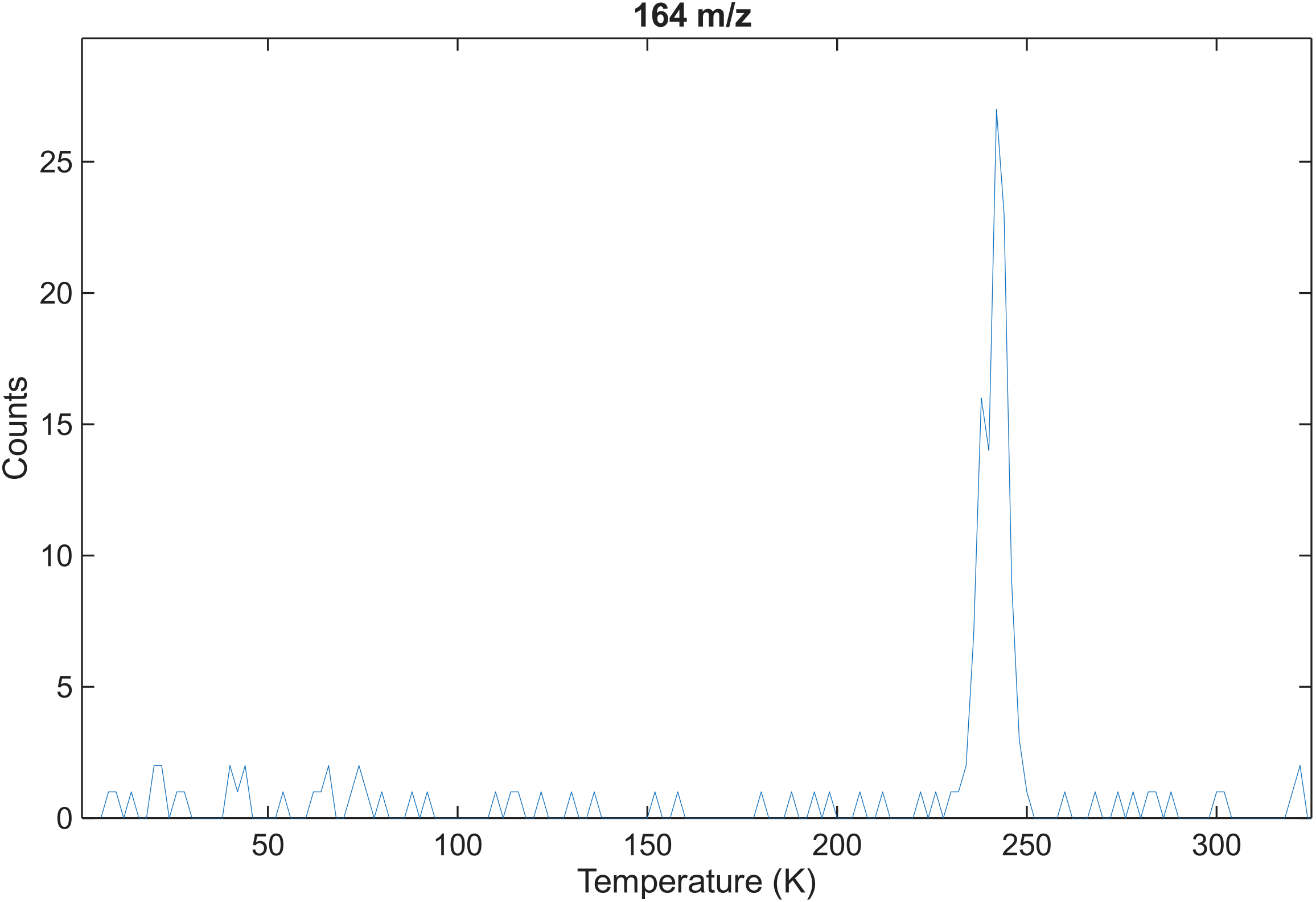
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Counts
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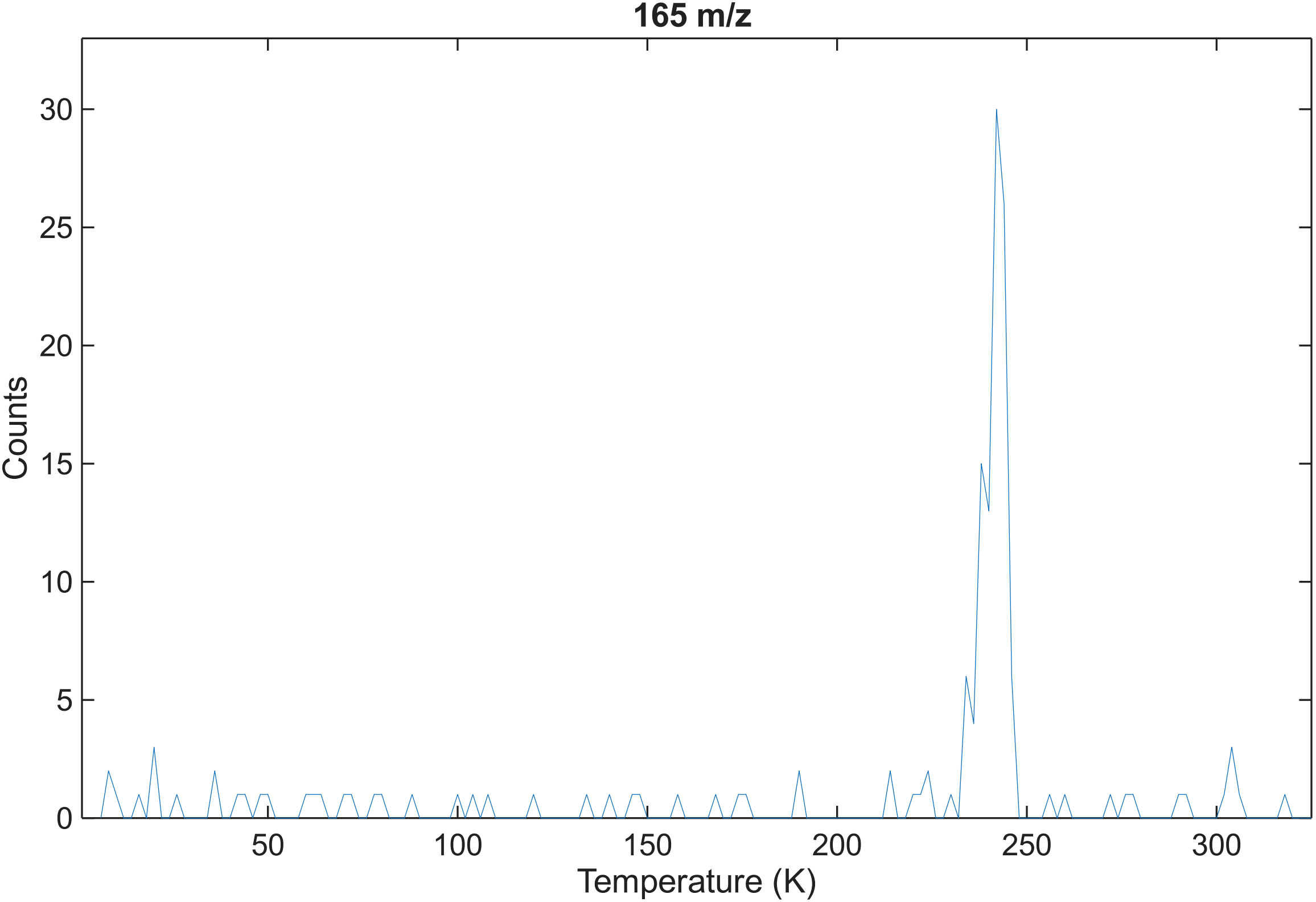
Temperature (K)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Counts
Temperature (K)
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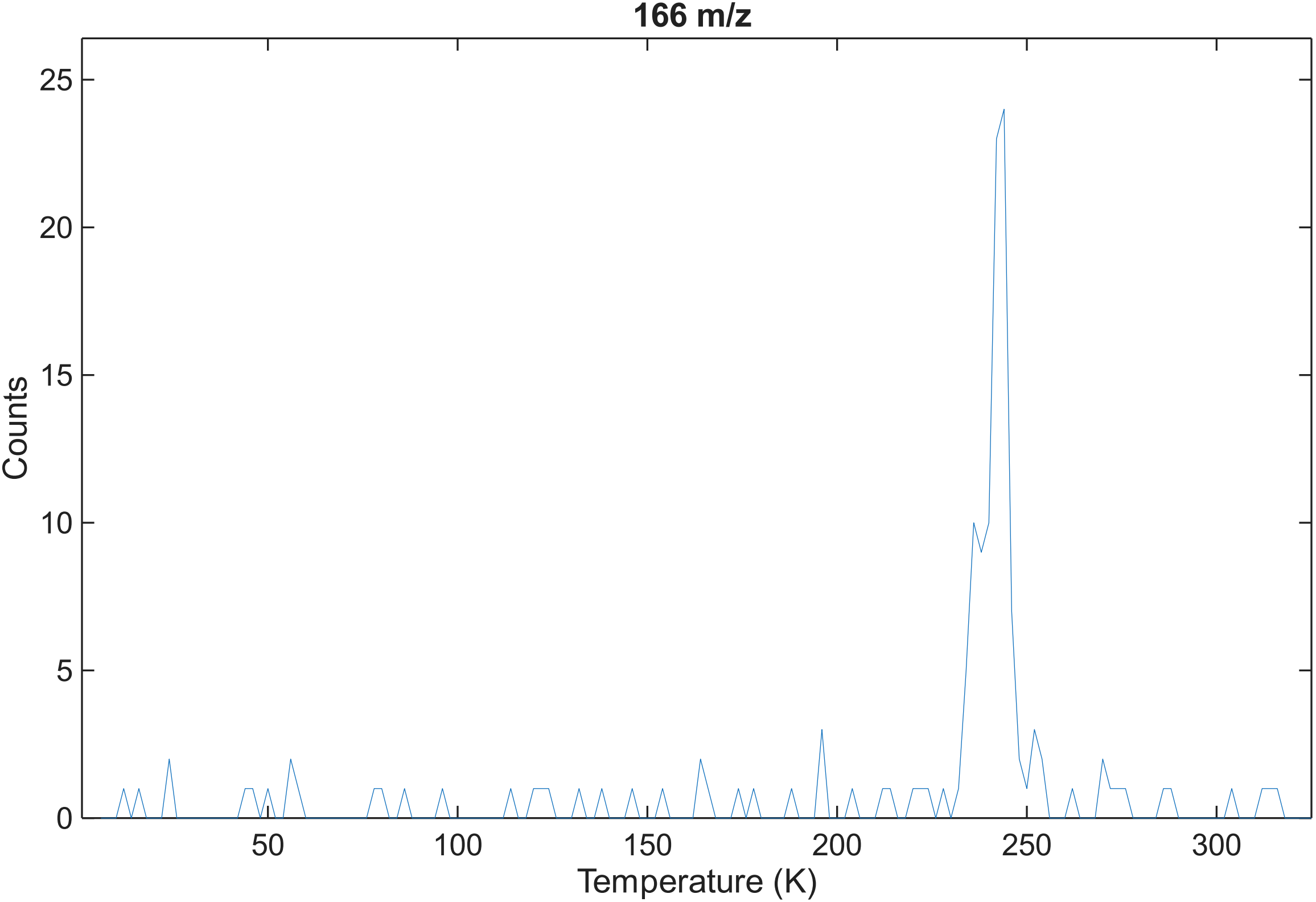
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Counts
Temperature (K)
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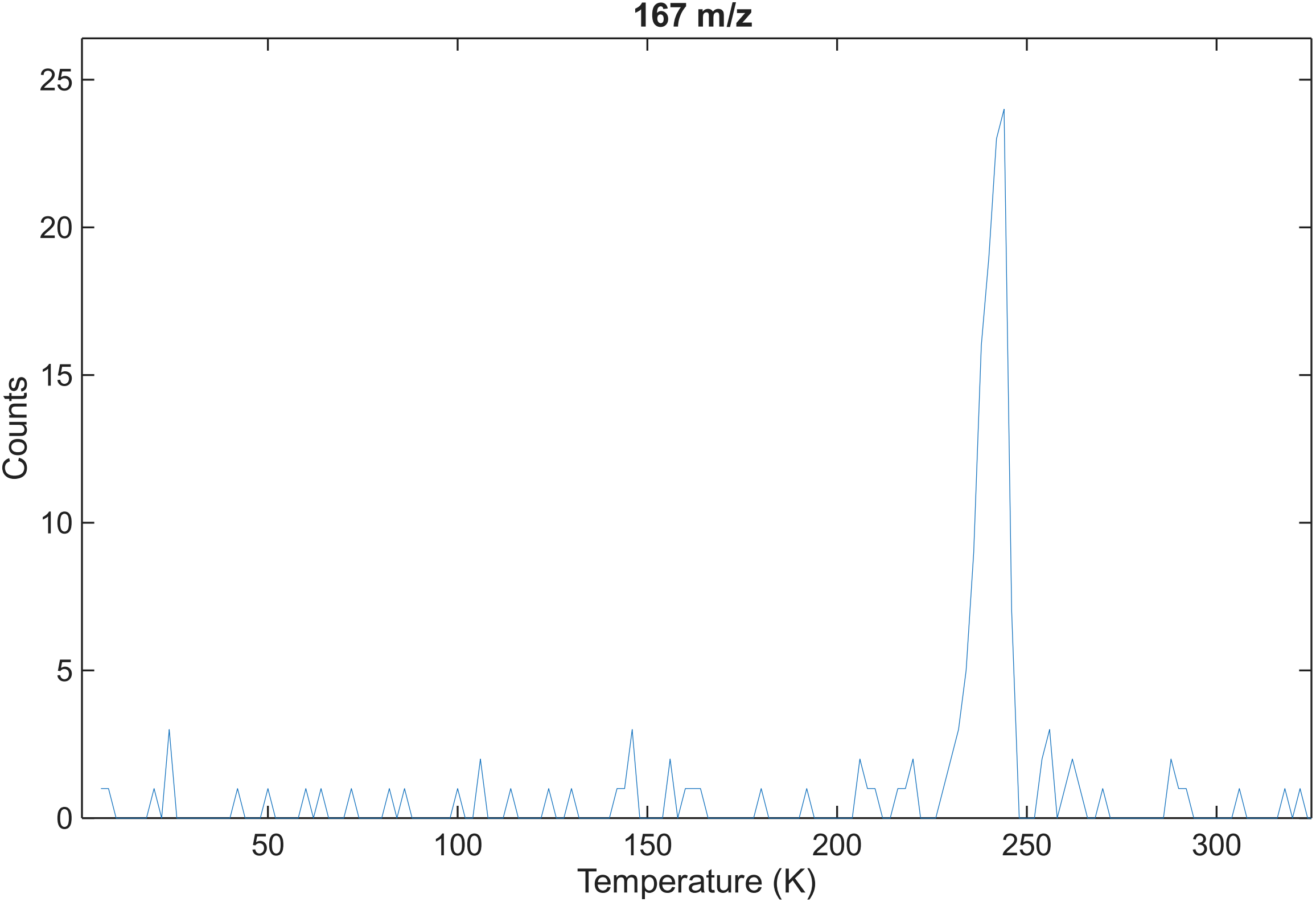
167 m/z
Counts
Temperature (K)
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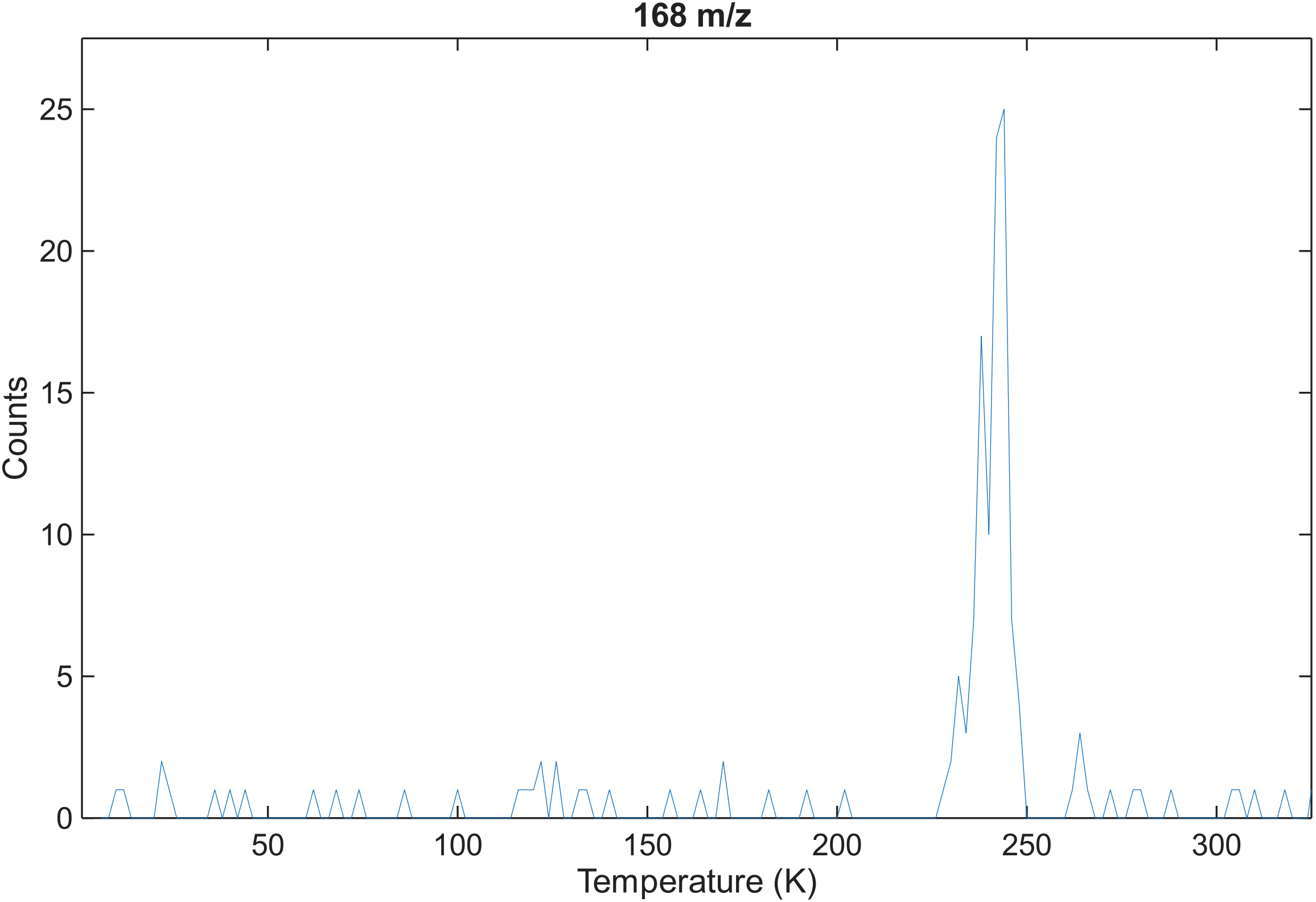
168 m/z
Counts
Temperature (K)
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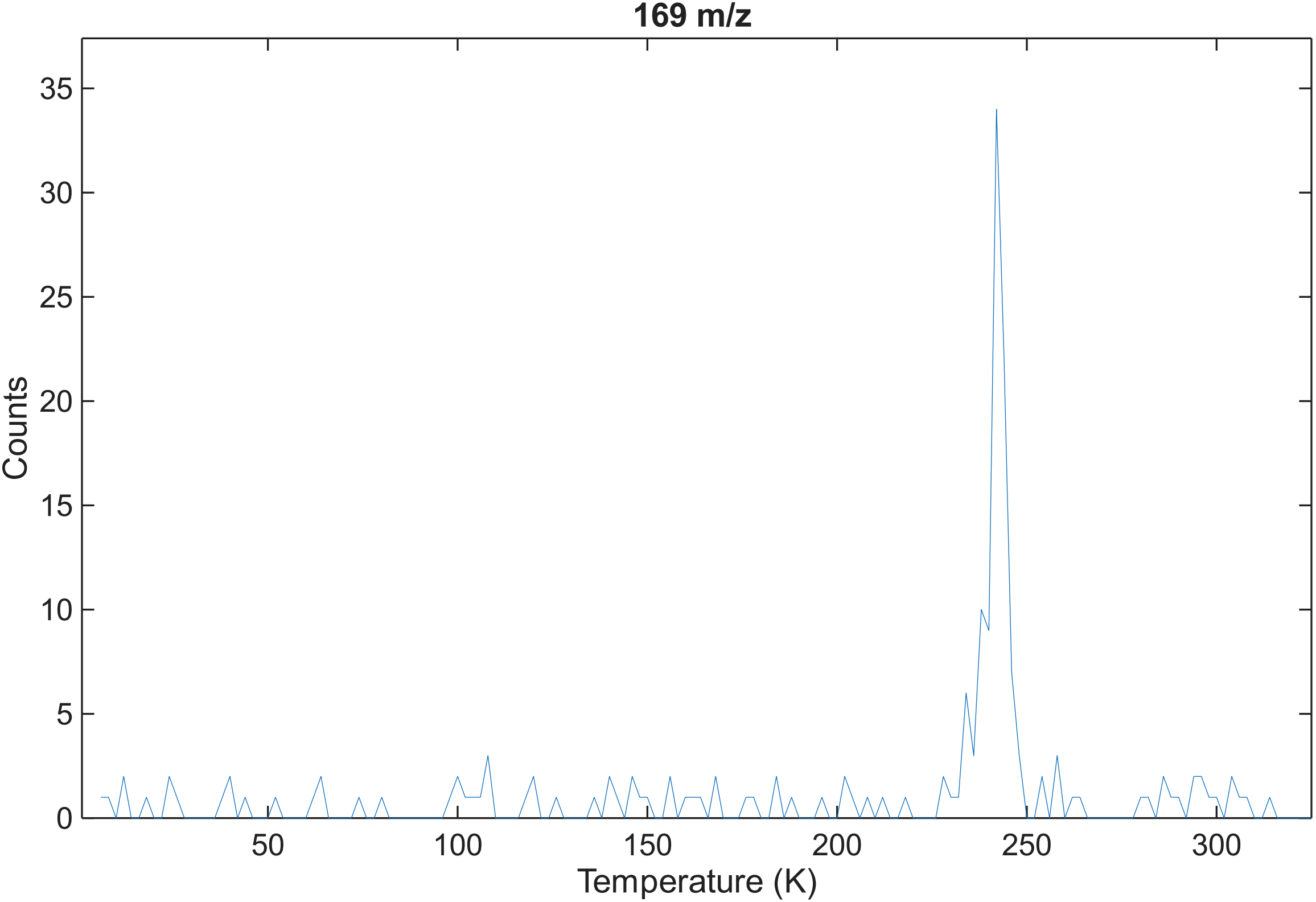
169 m/z
Counts
Temperature (K)
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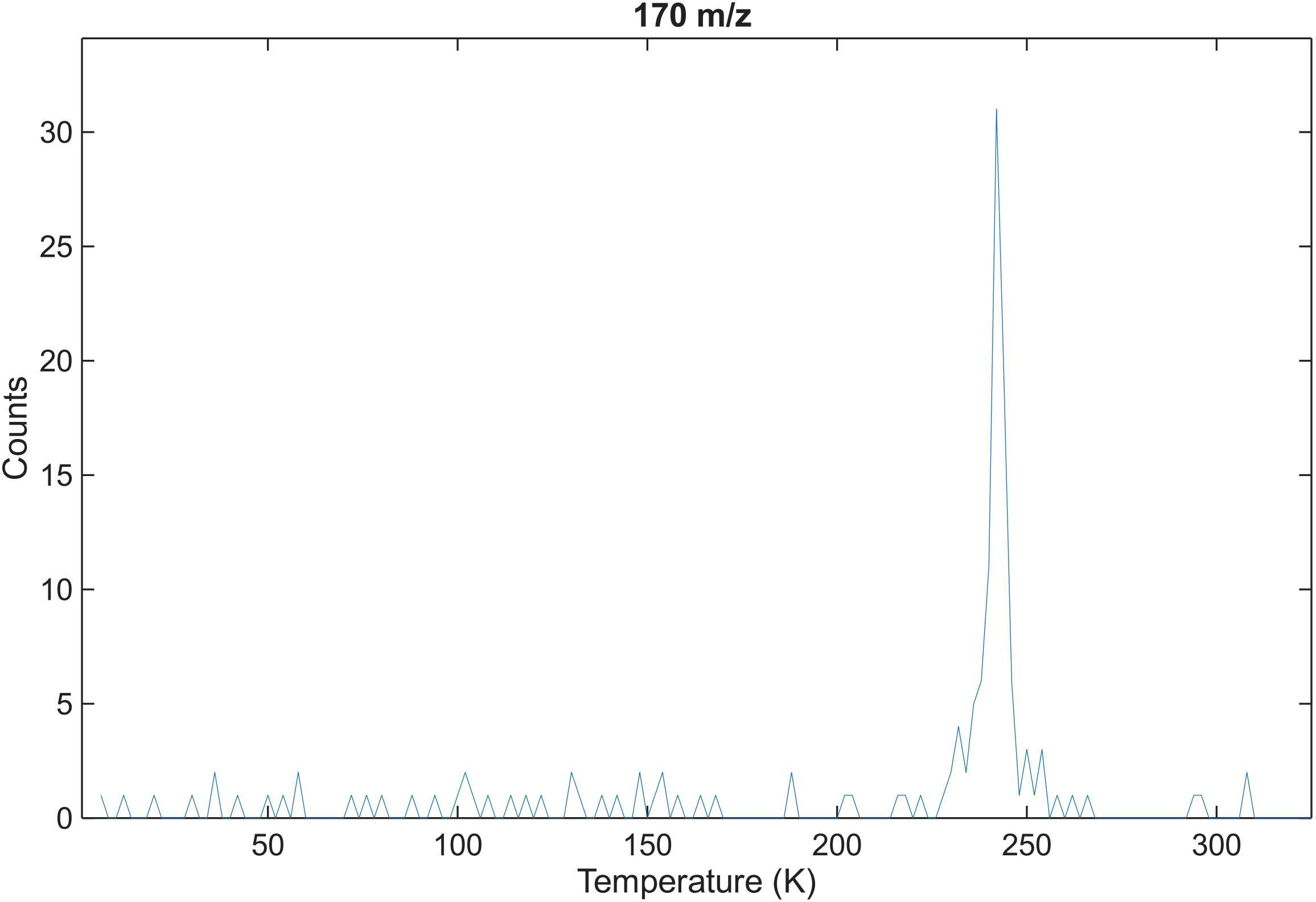
170 m/z
Counts
Temperature (K)
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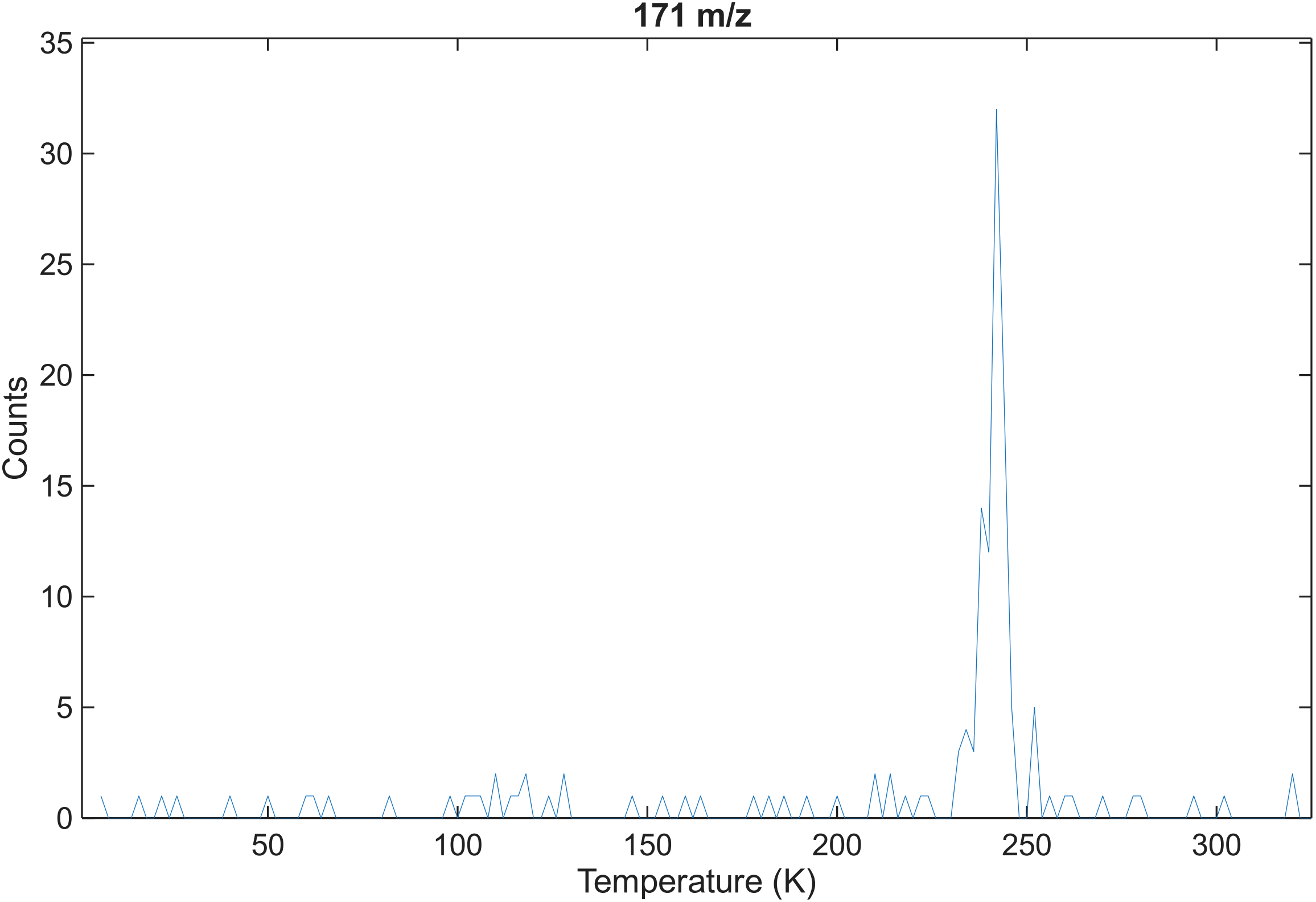
171 m/z
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Counts
50
100
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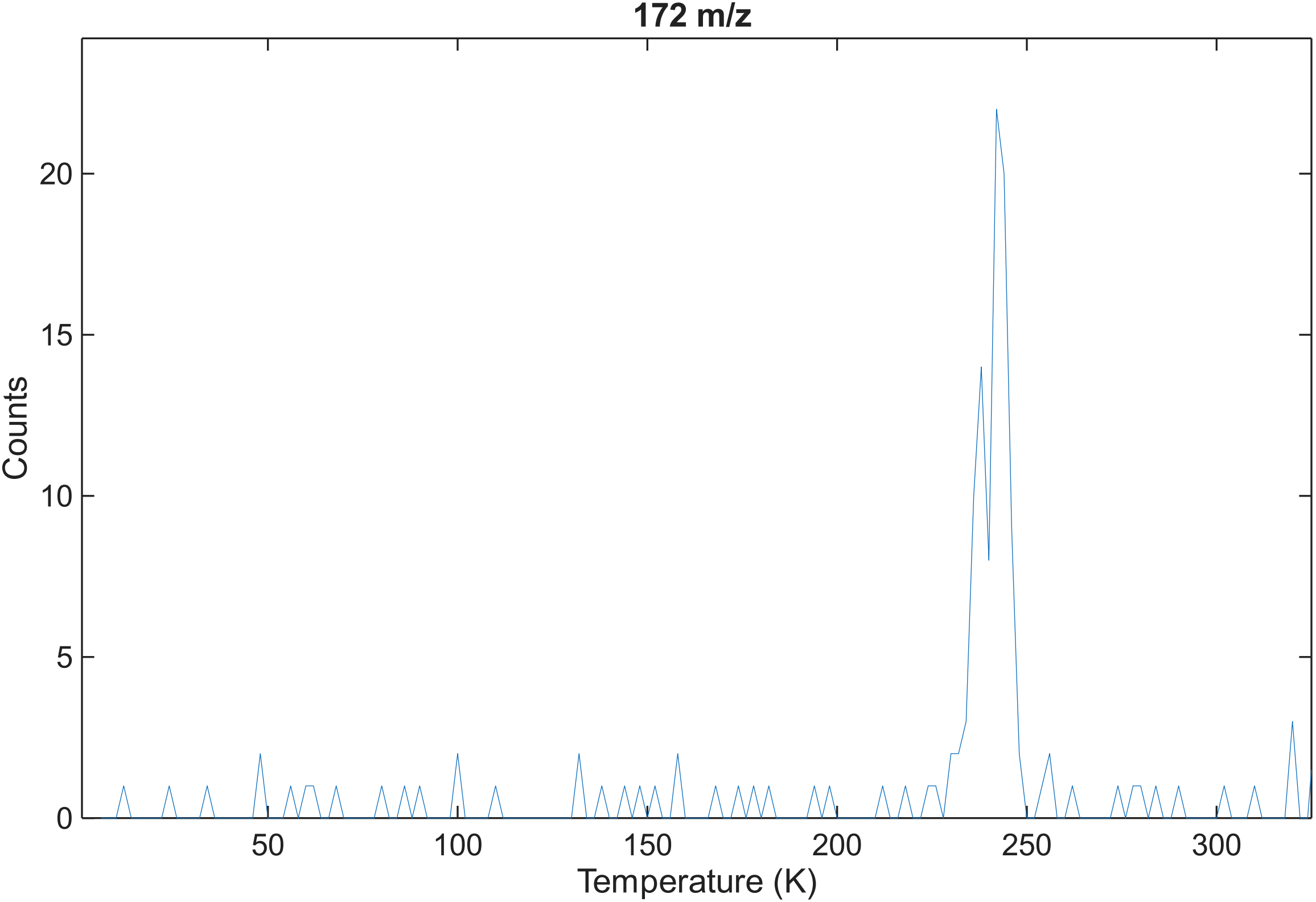
200
250
300
Temperature (K)


172 m/z
Counts
0
5
10
15
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50
100
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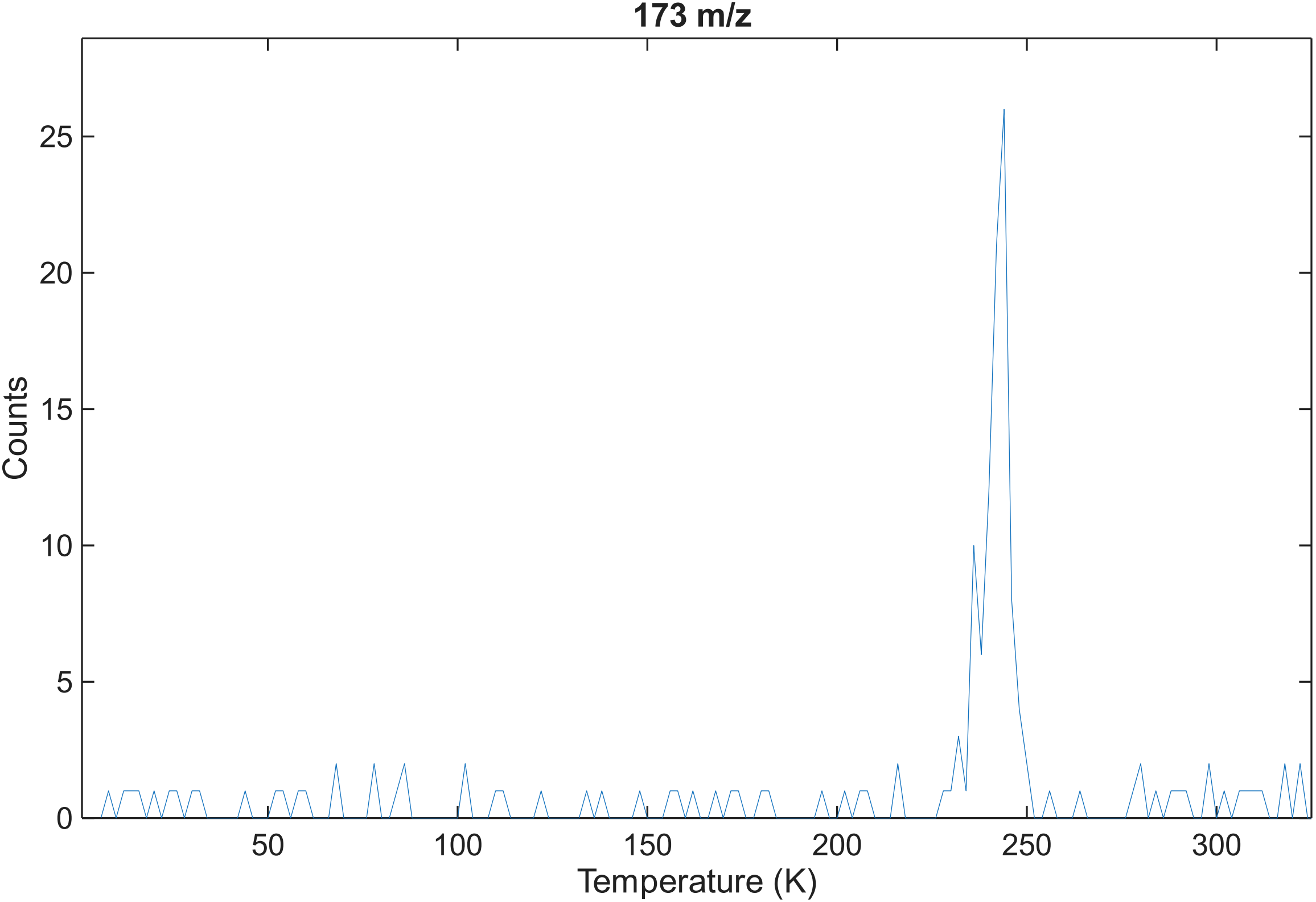
200
250
300
Temperature (K)


173 m/z
Counts
Temperature (K)
0
5
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20
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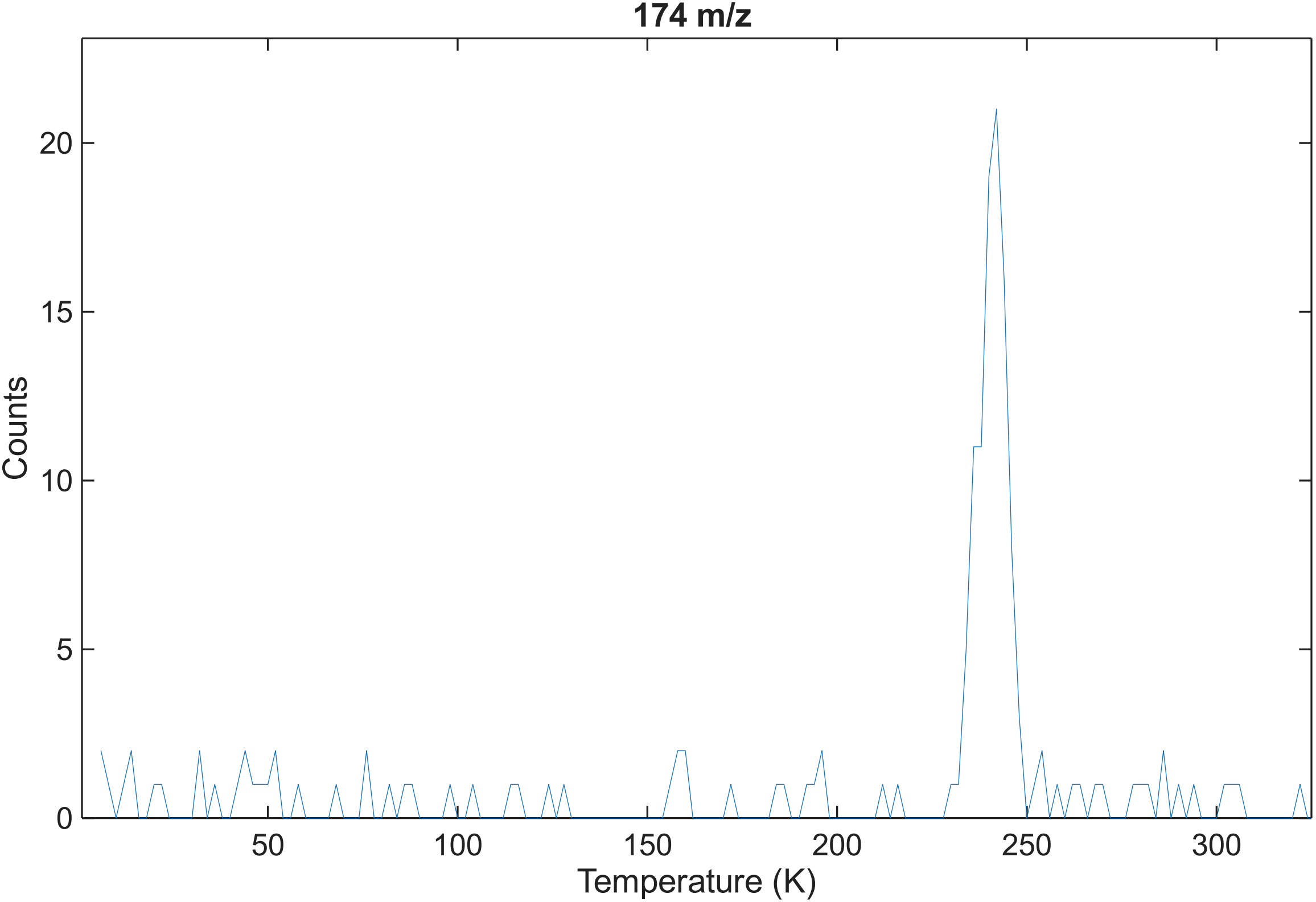
174 m/z
Counts
Temperature (K)
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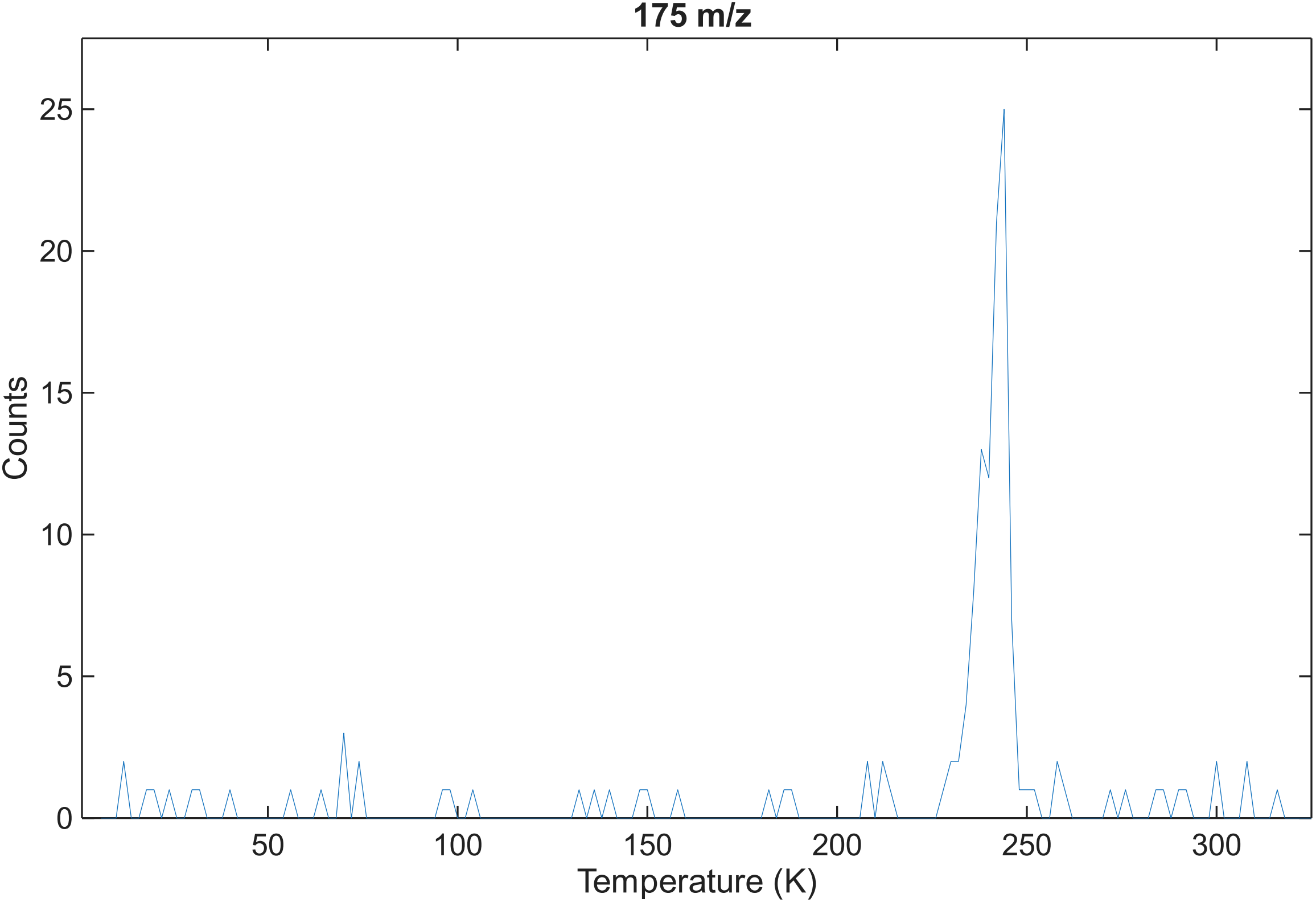
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Counts
Temperature (K)
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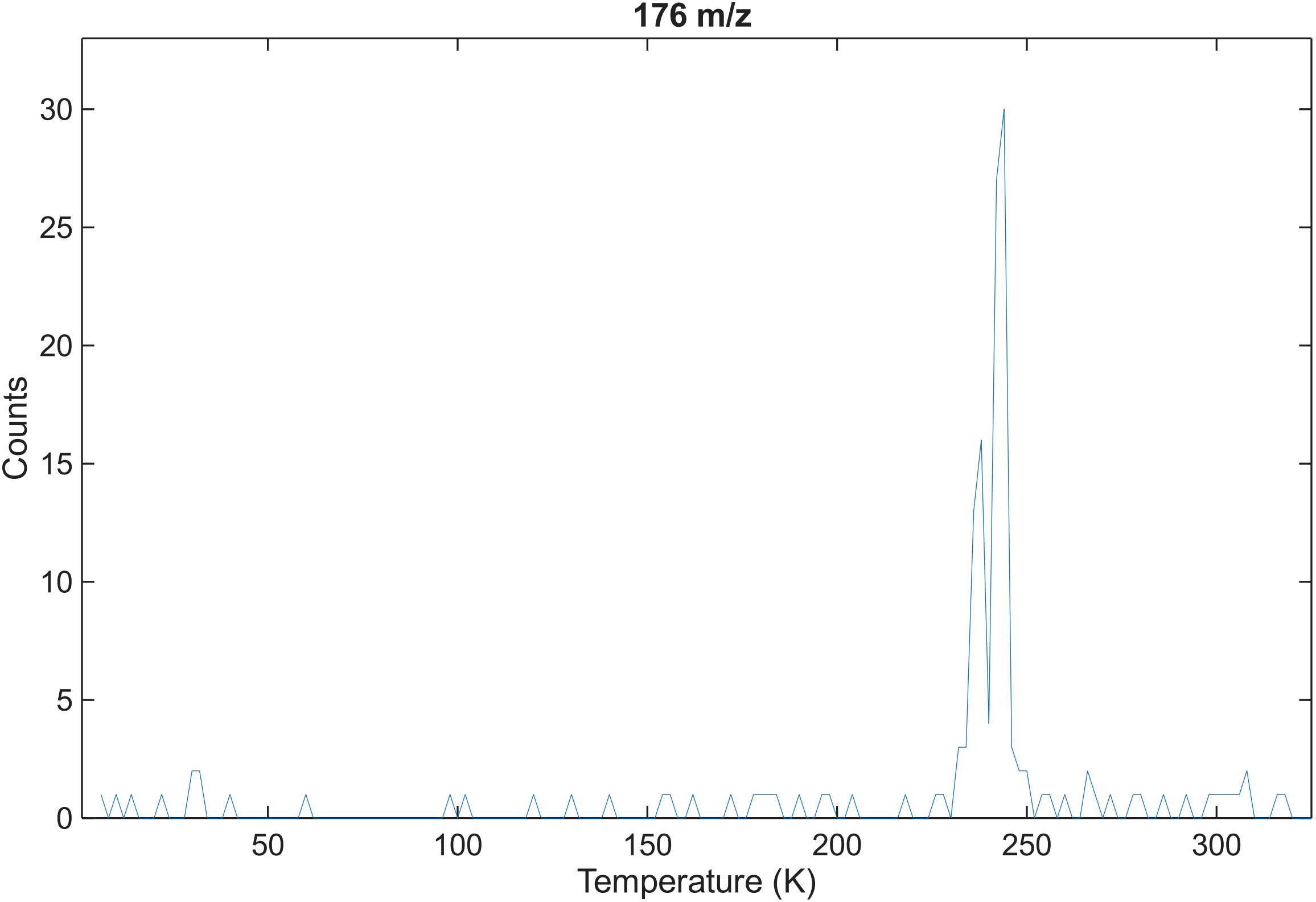
176 m/z
Counts
Temperature (K)
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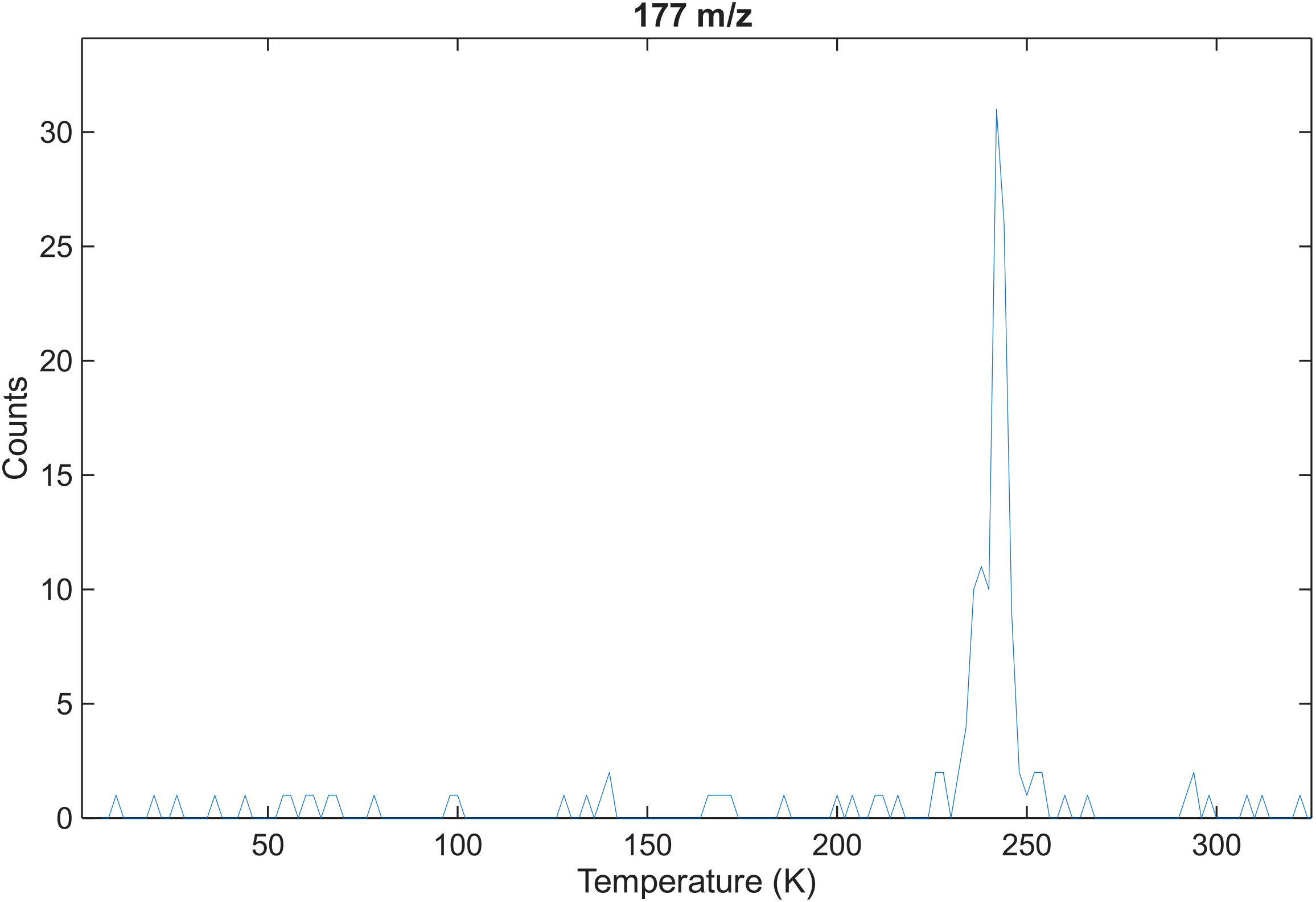
177 m/z
Counts
Temperature (K)
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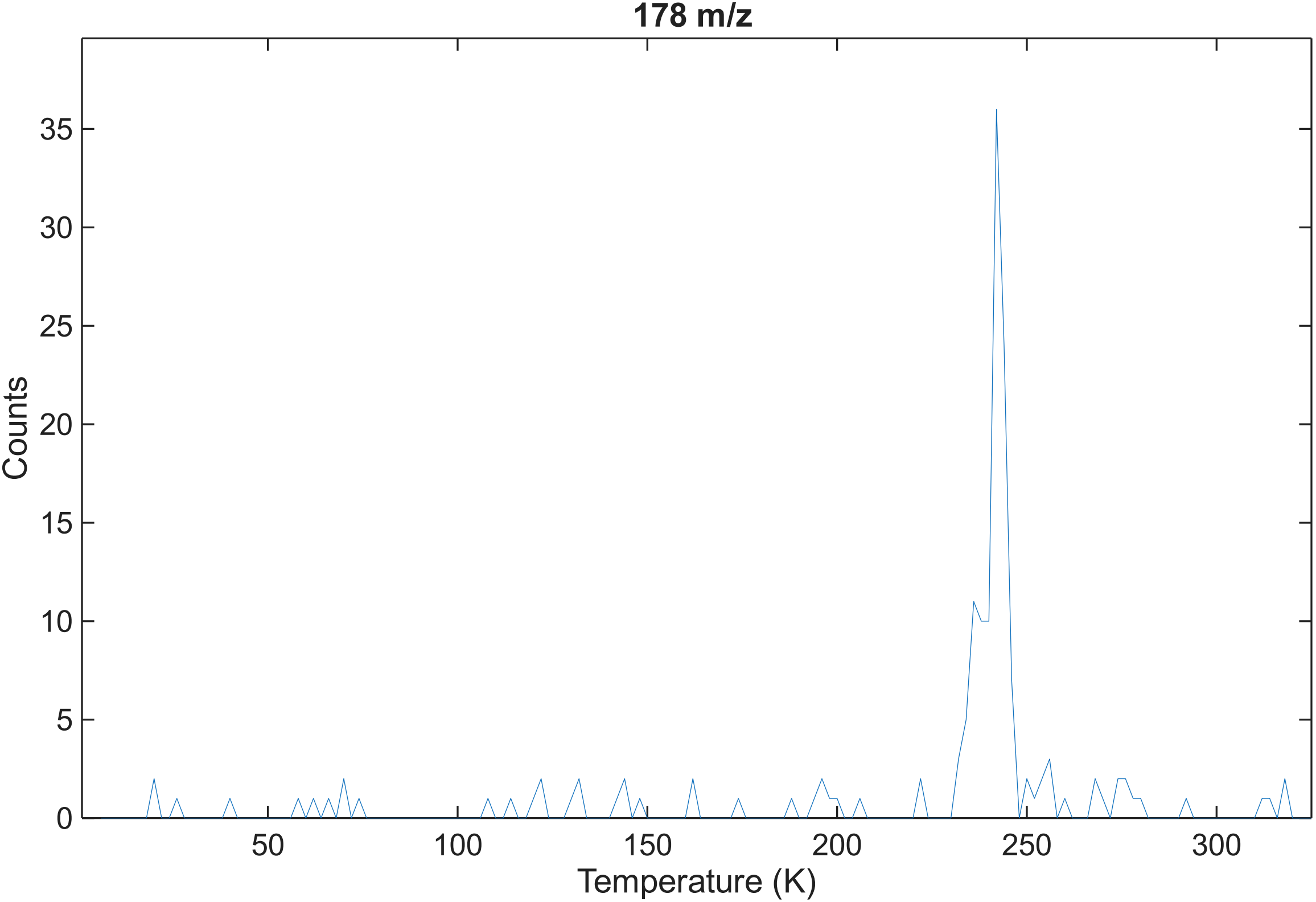
178 m/z
Counts
Temperature (K)
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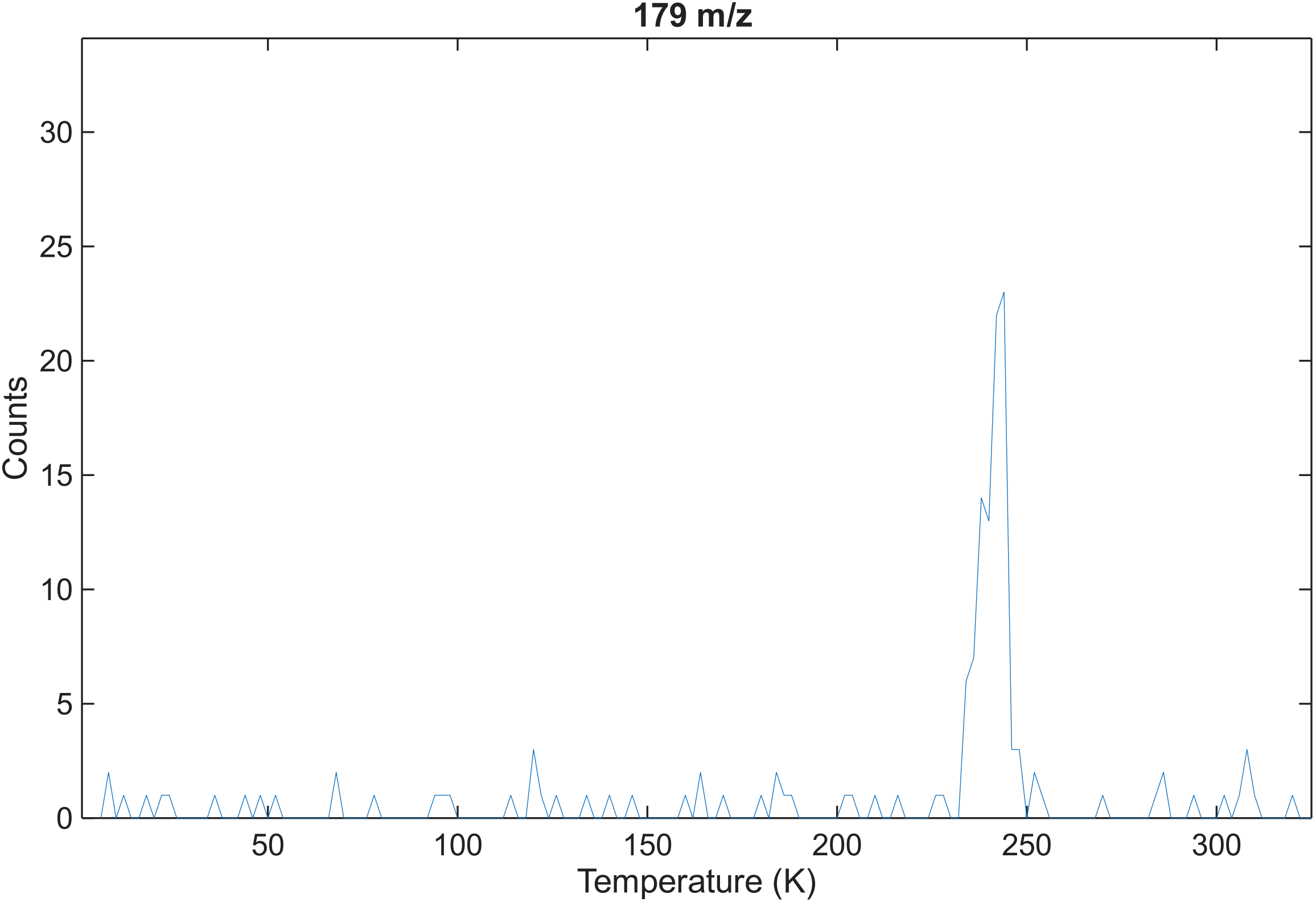
179 m/z
Counts
Temperature (K)
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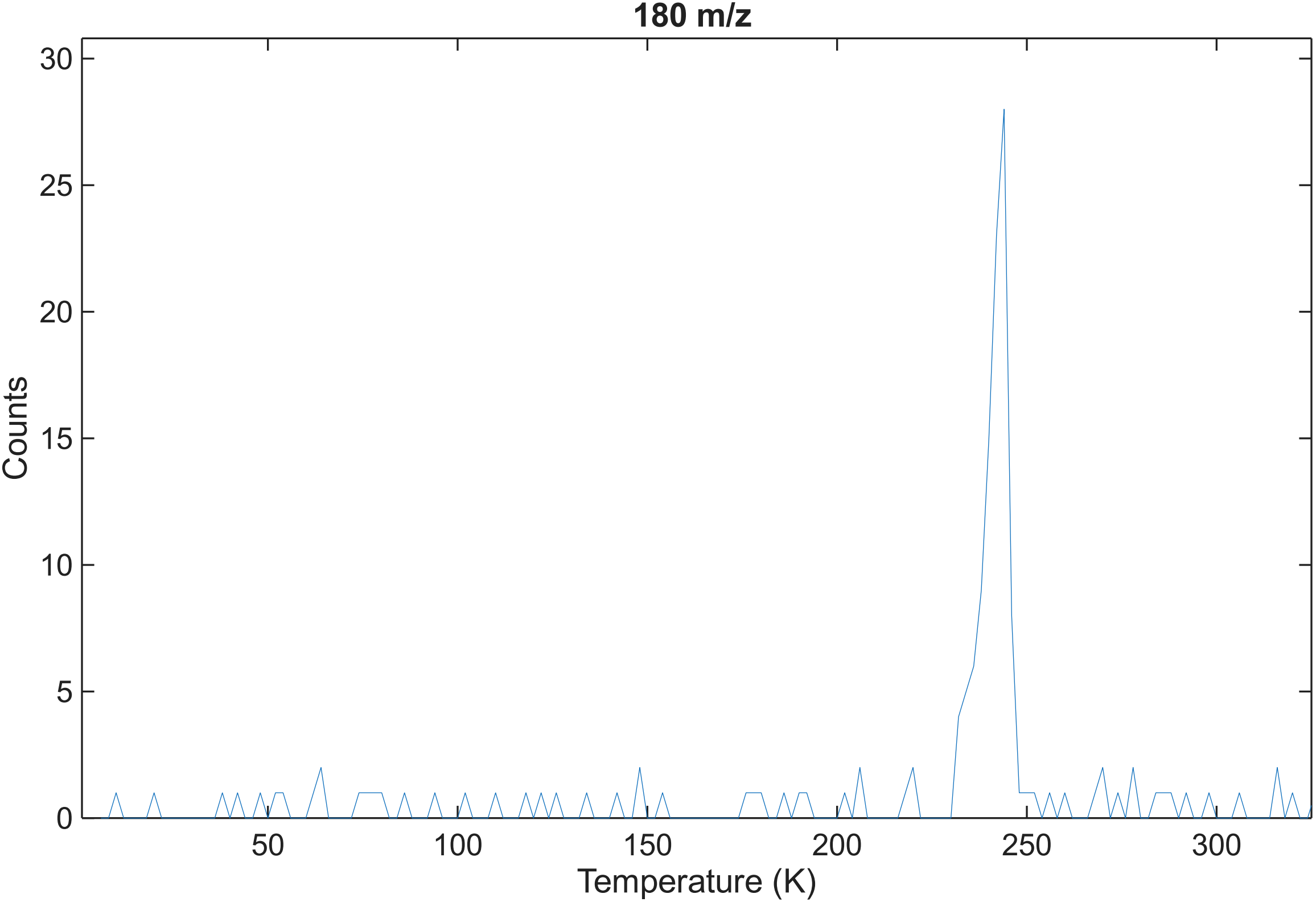
180 m/z
Counts
Temperature (K)
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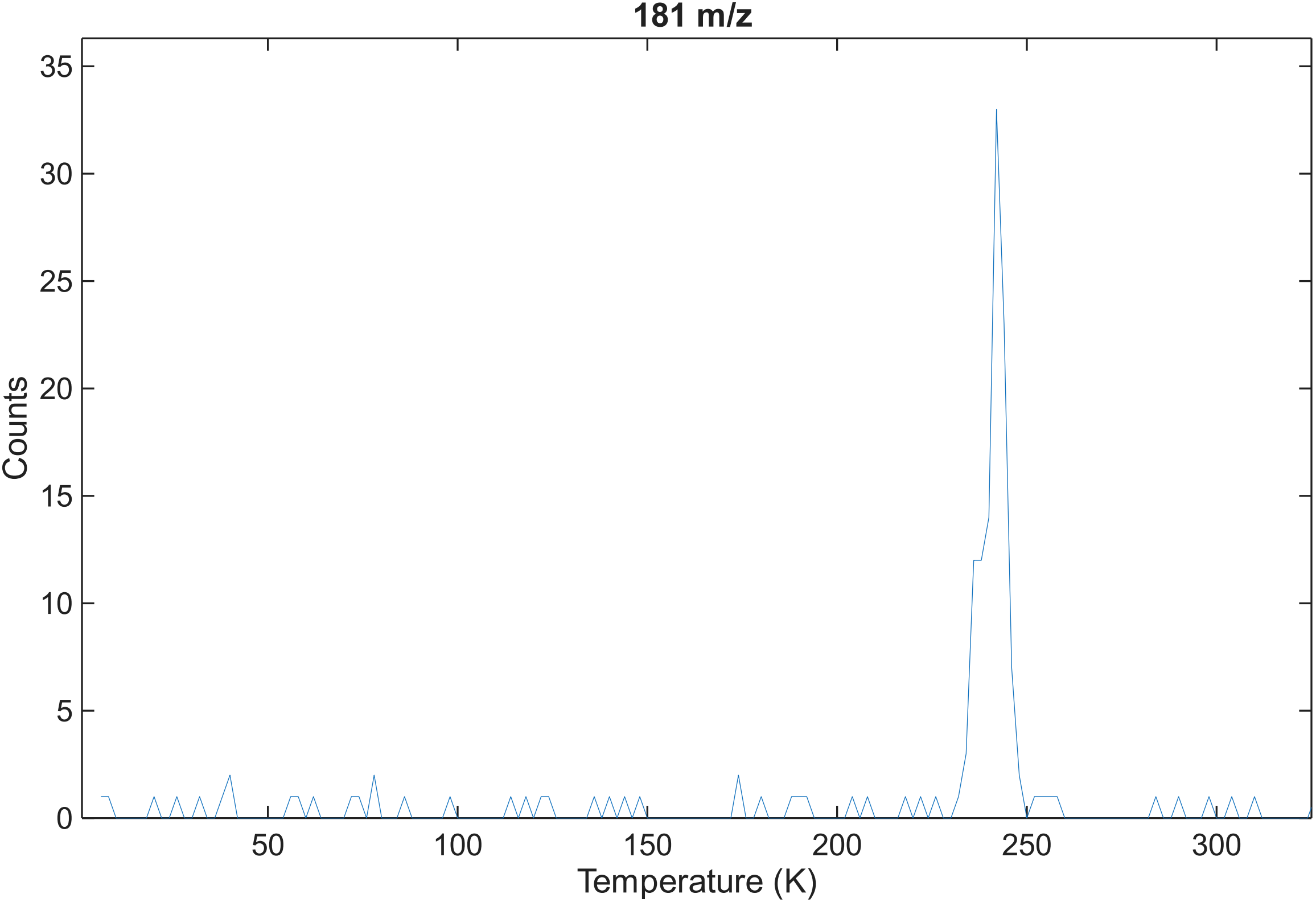
181 m/z
Counts
Temperature (K)
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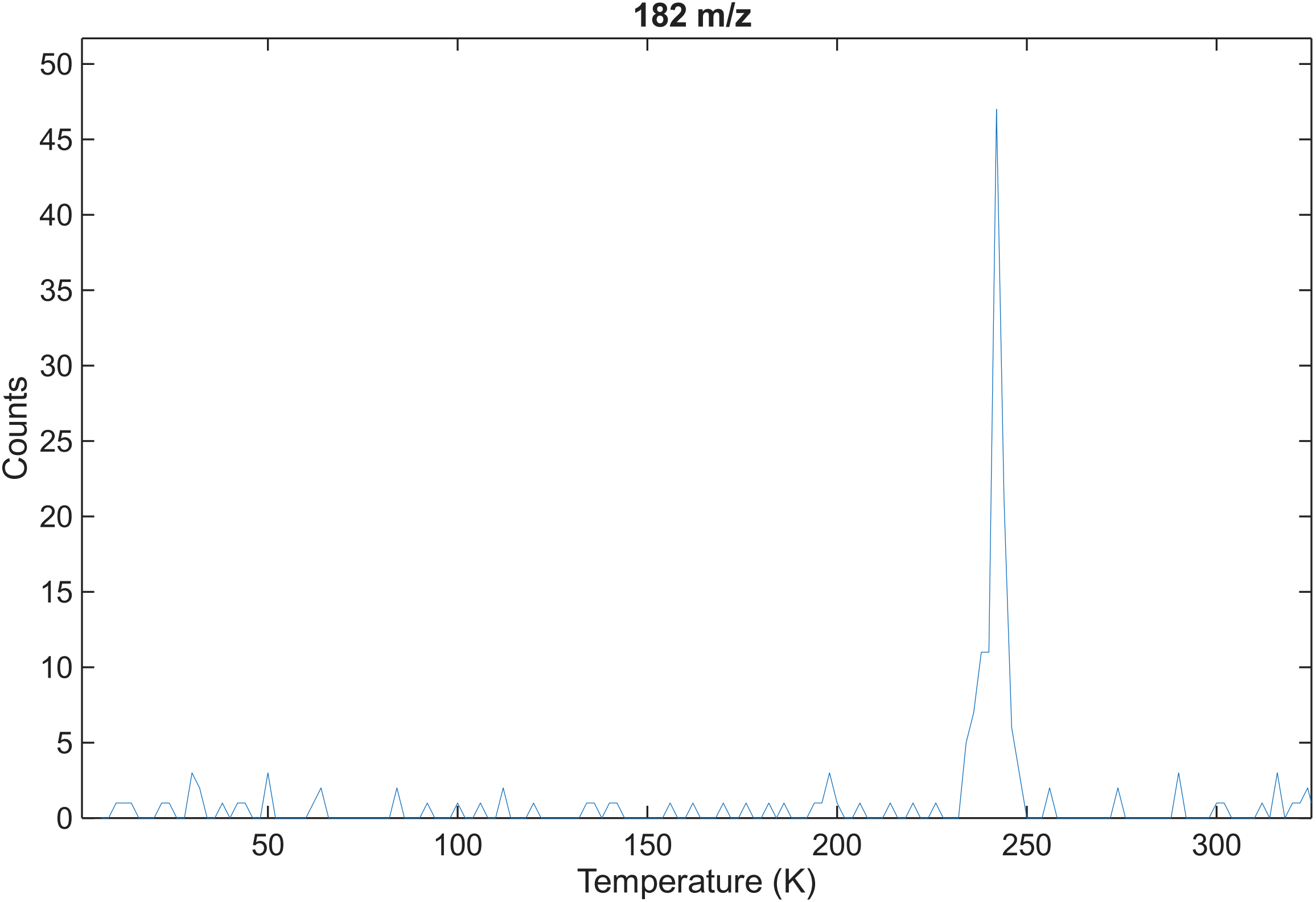
182 m/z
Counts
Temperature (K)
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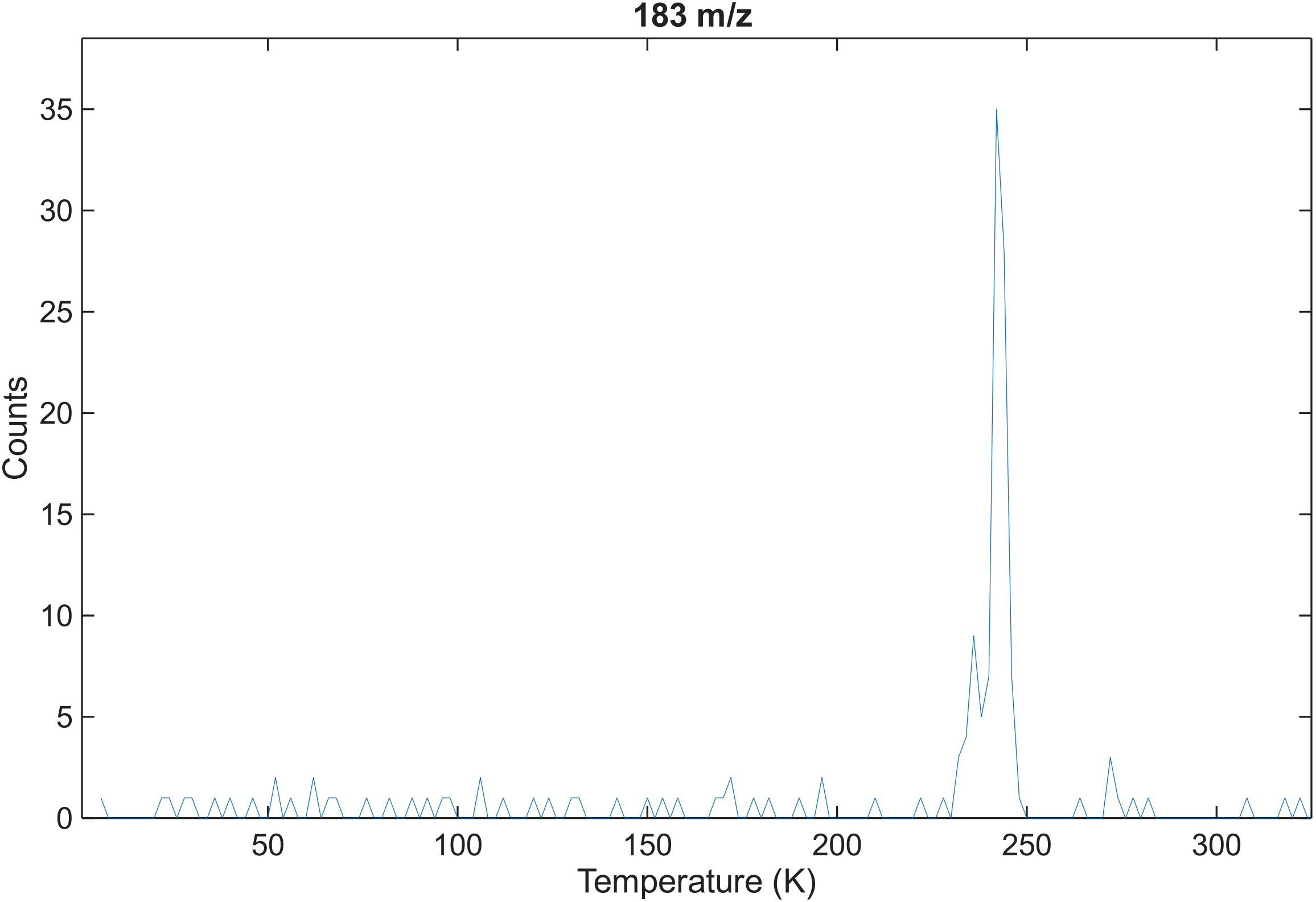
183 m/z
Counts
Temperature (K)
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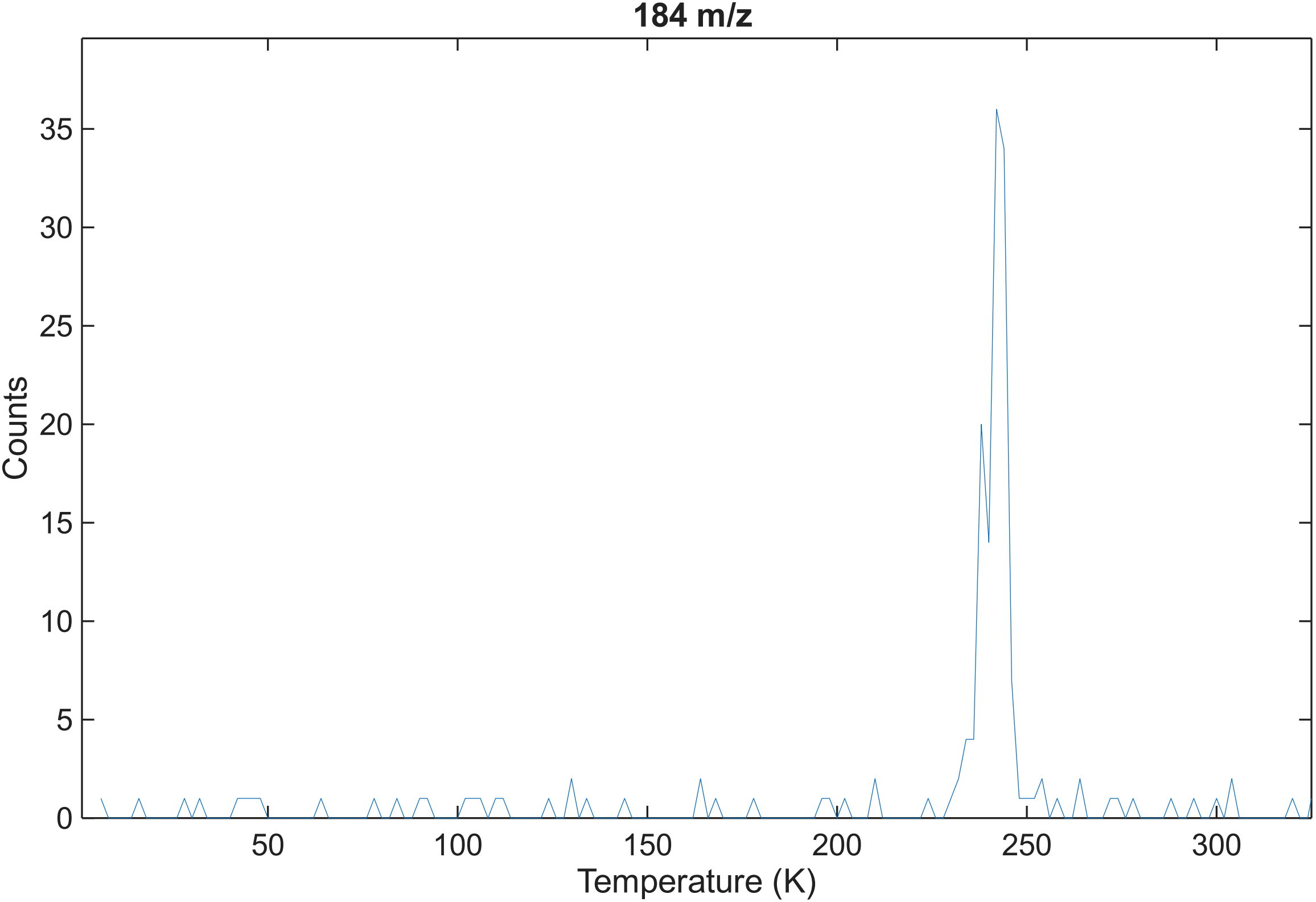
184 m/z
Counts
Temperature (K)
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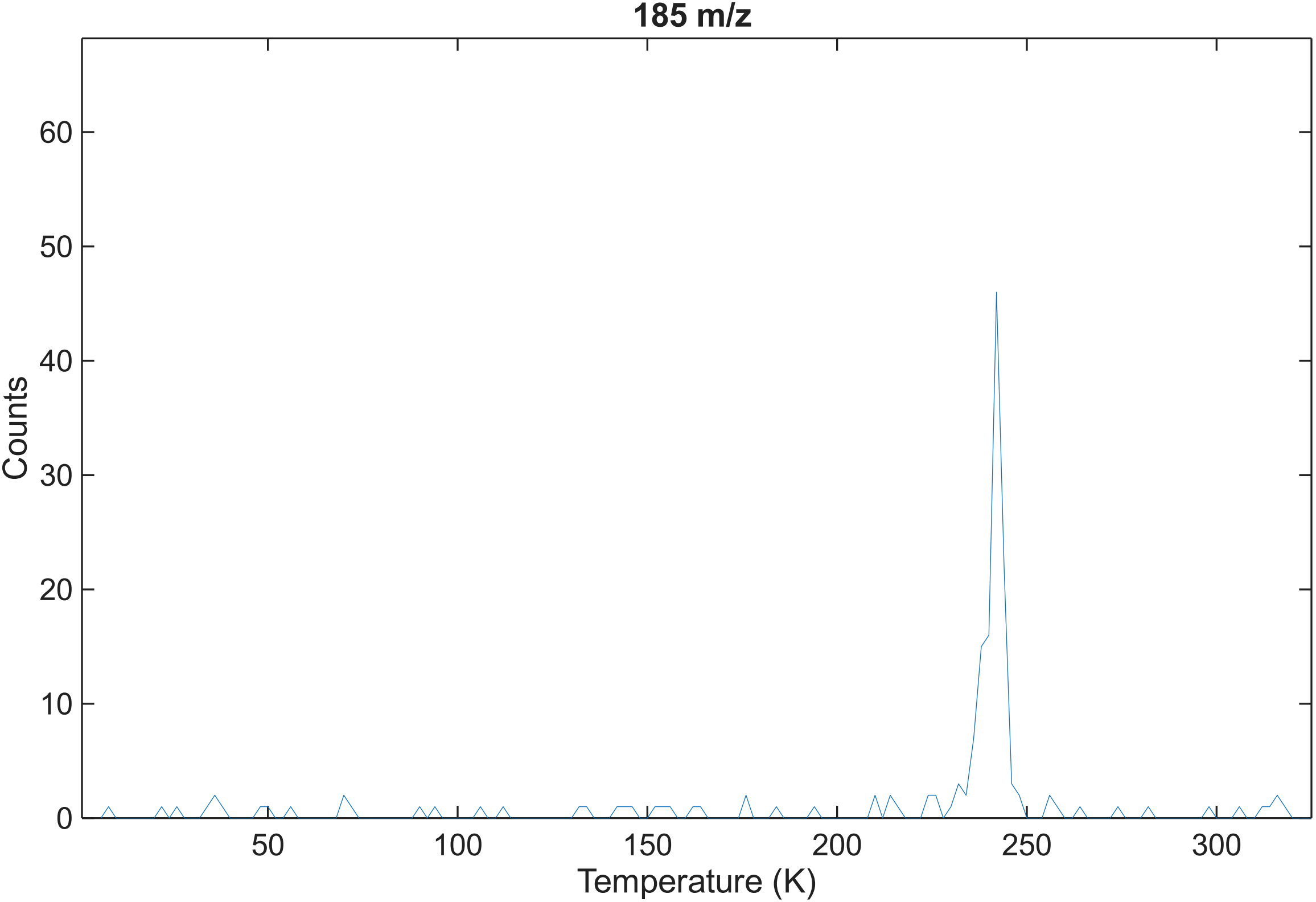
185 m/z
Counts
Temperature (K)
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10
20
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50
60
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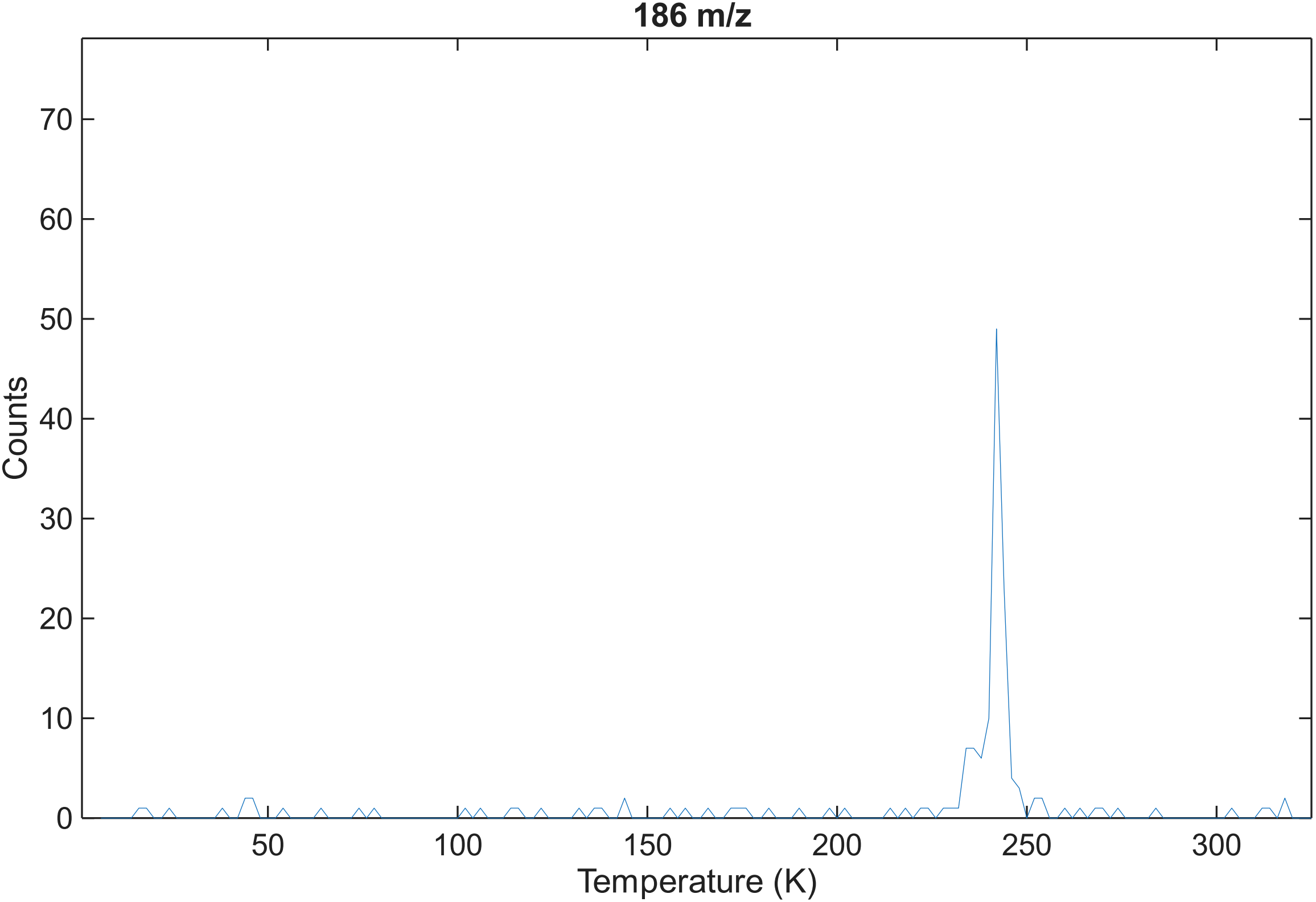
186 m/z
Counts
Temperature (K)
0
10
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40
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200
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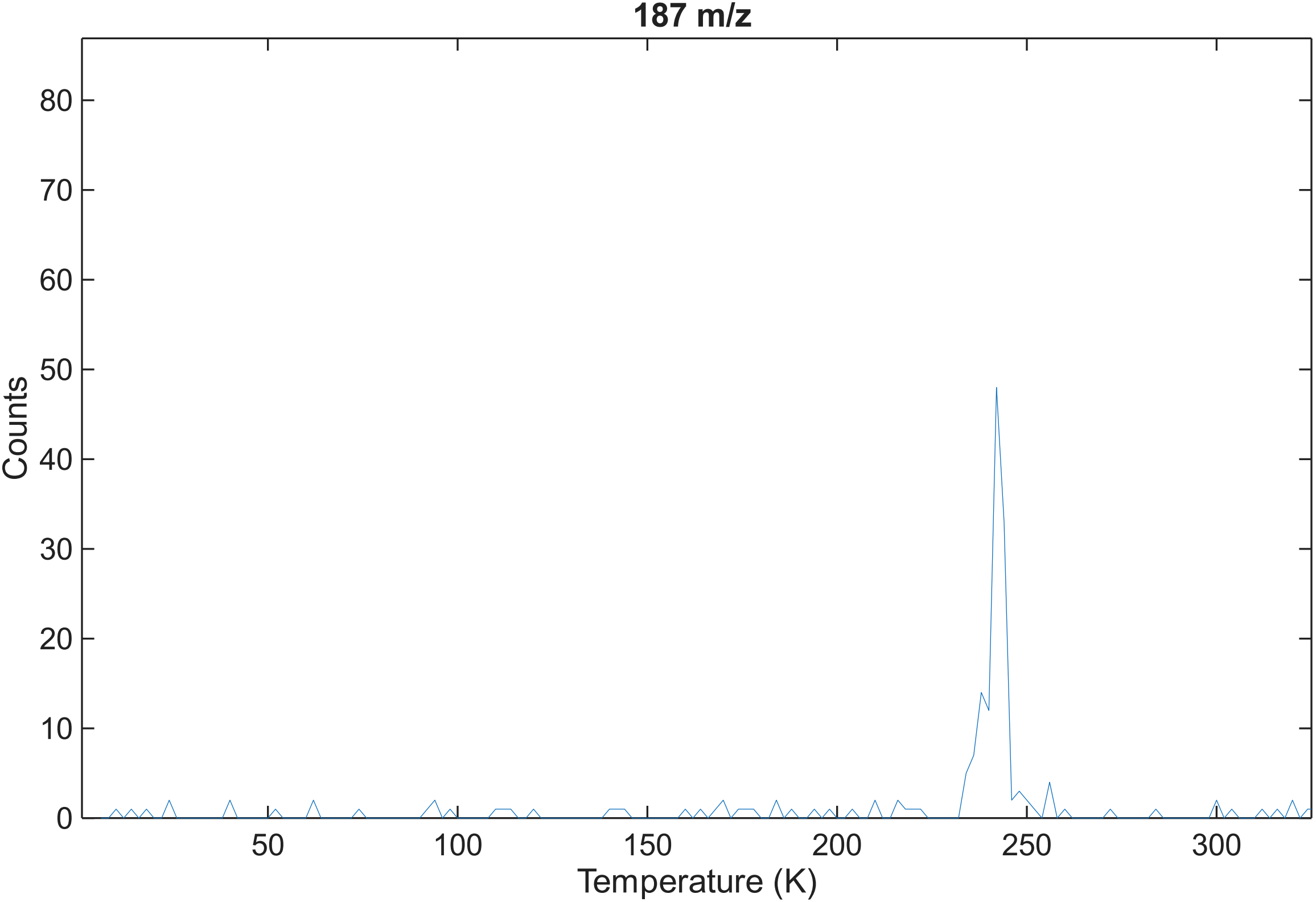
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Counts
Temperature (K)
0
10
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50
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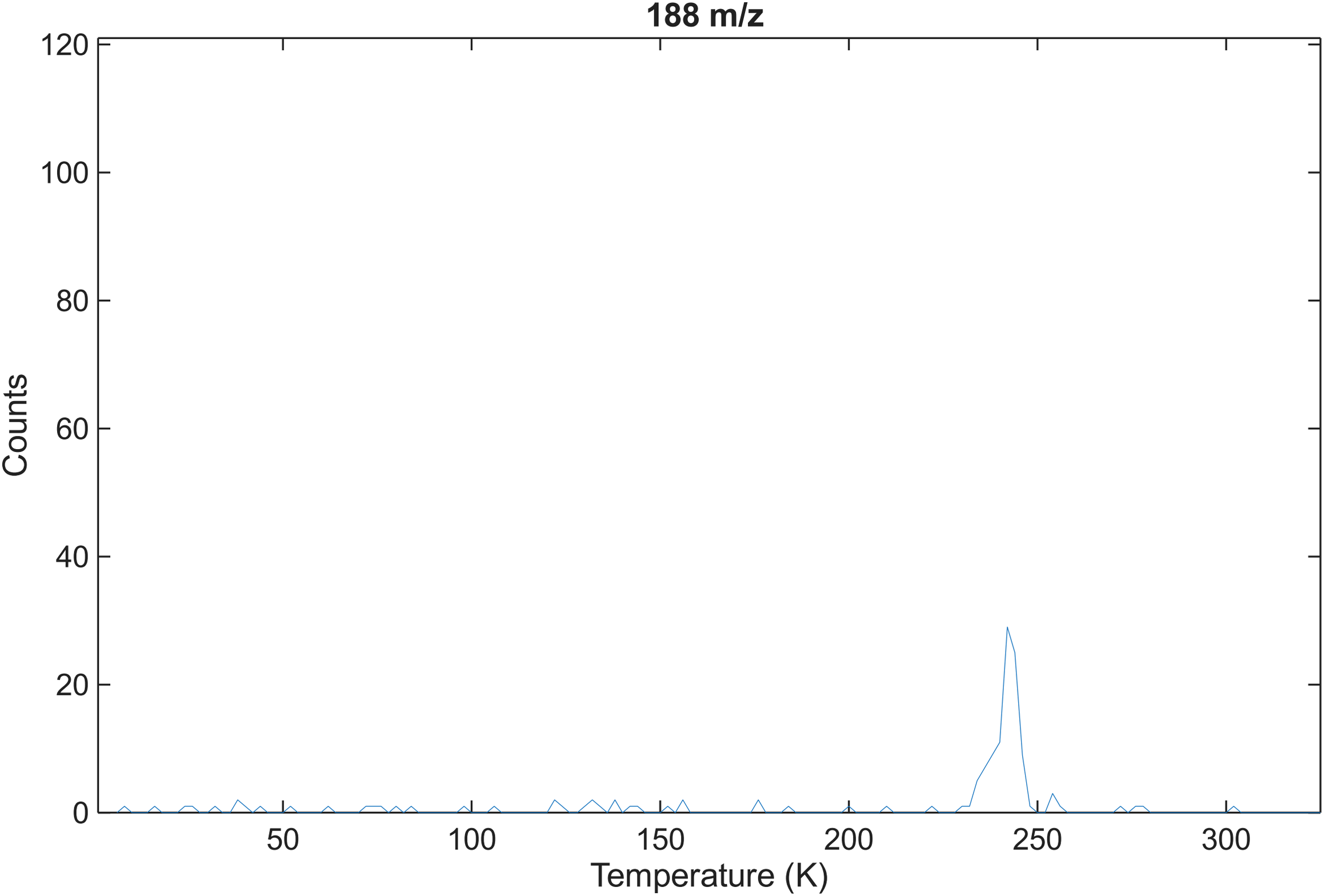
188 m/z
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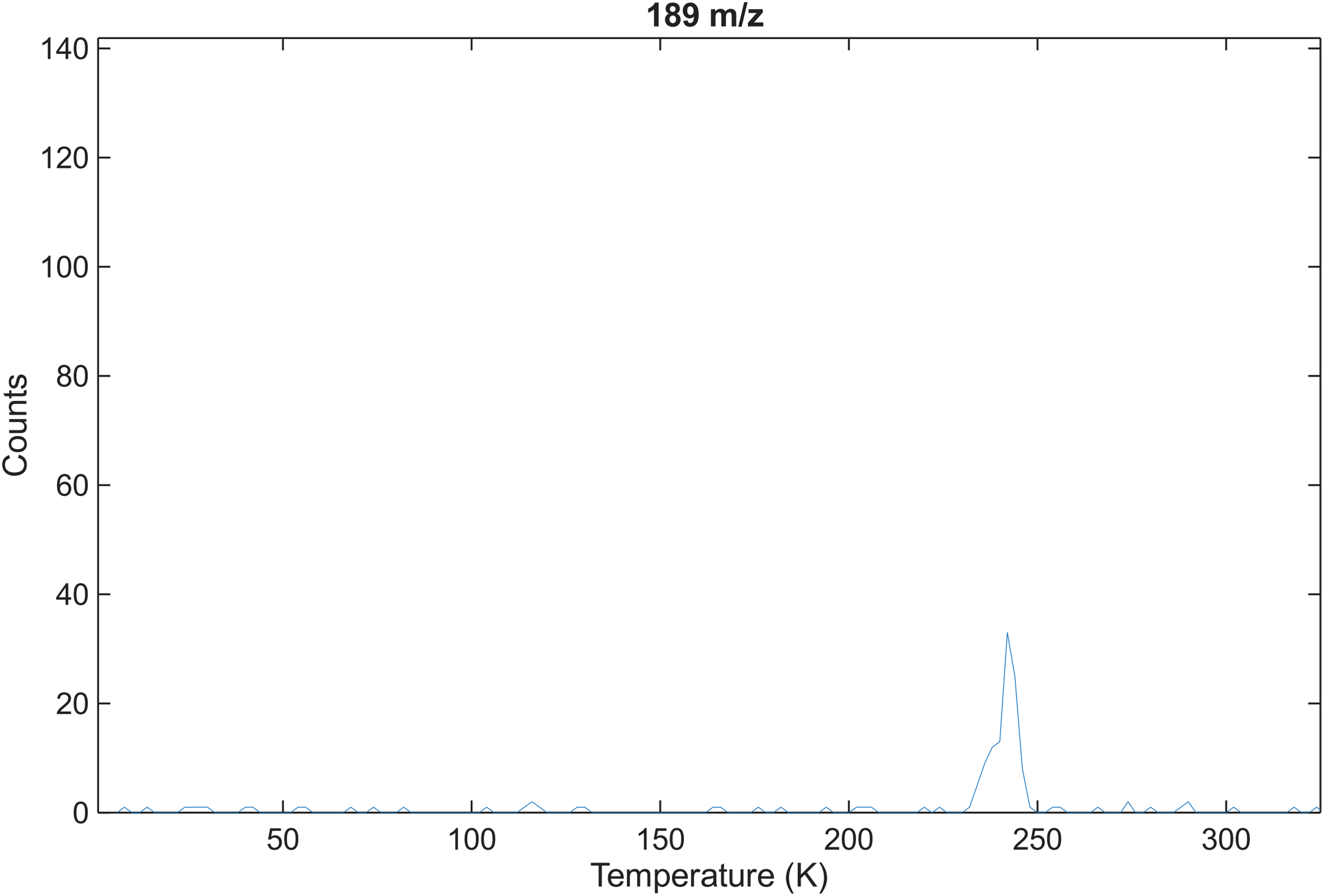
100
80
60
40
20
0
Counts
50
100
150
200
250
300
Temperature (K)


189 m/z
Counts
Temperature (K)
0
20
40
60
80
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120
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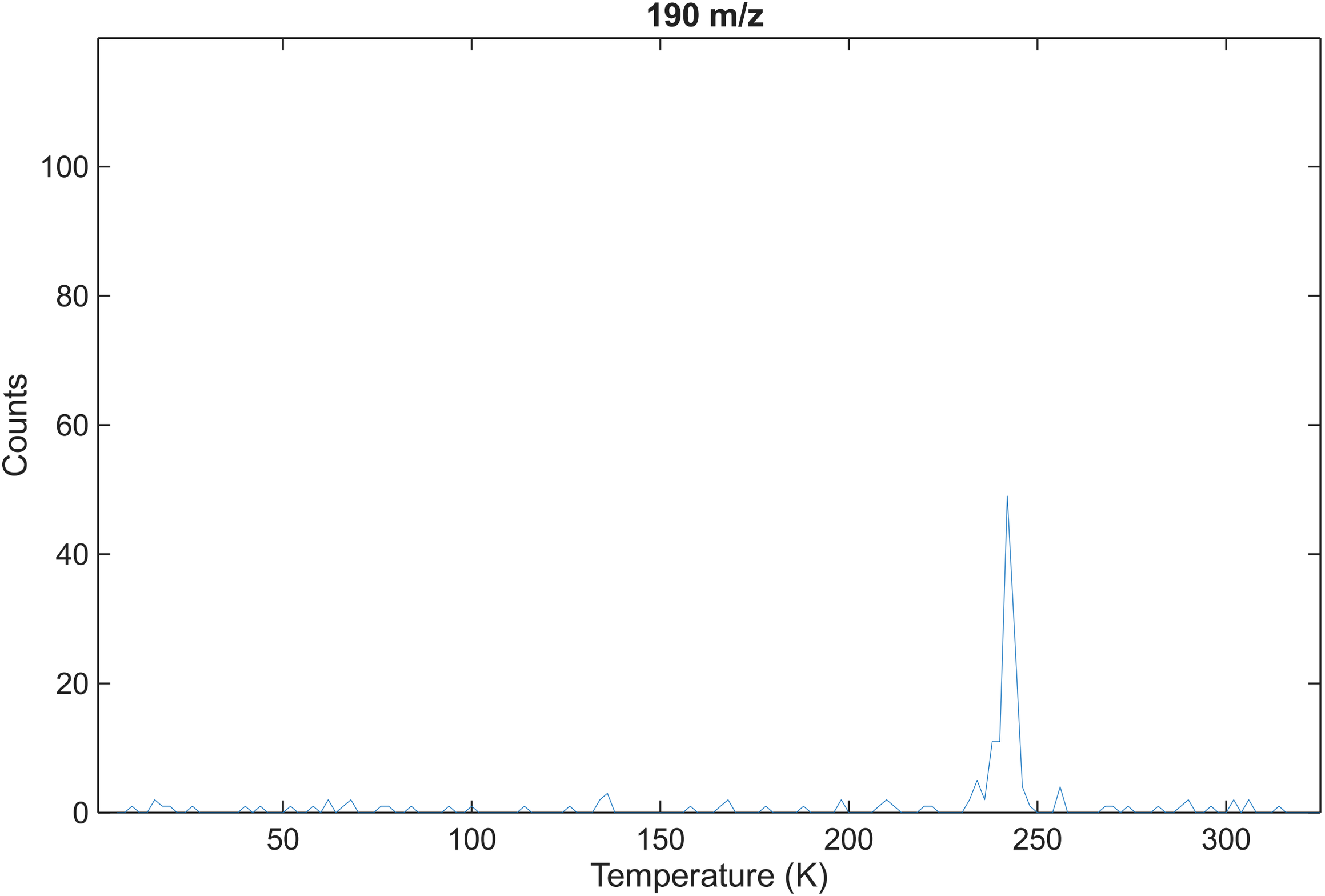
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Counts
Temperature (K)
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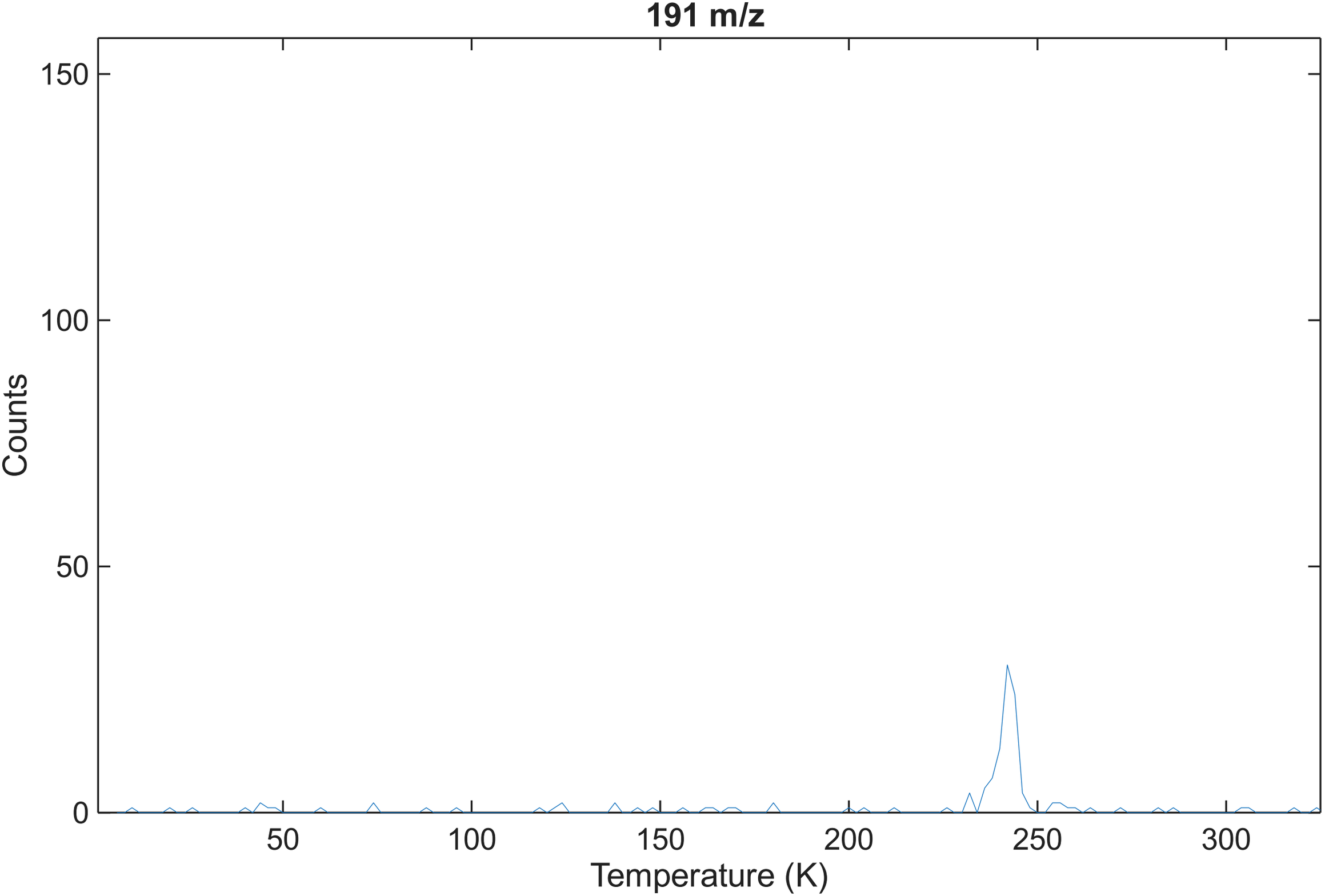
191 m/z
150
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Counts
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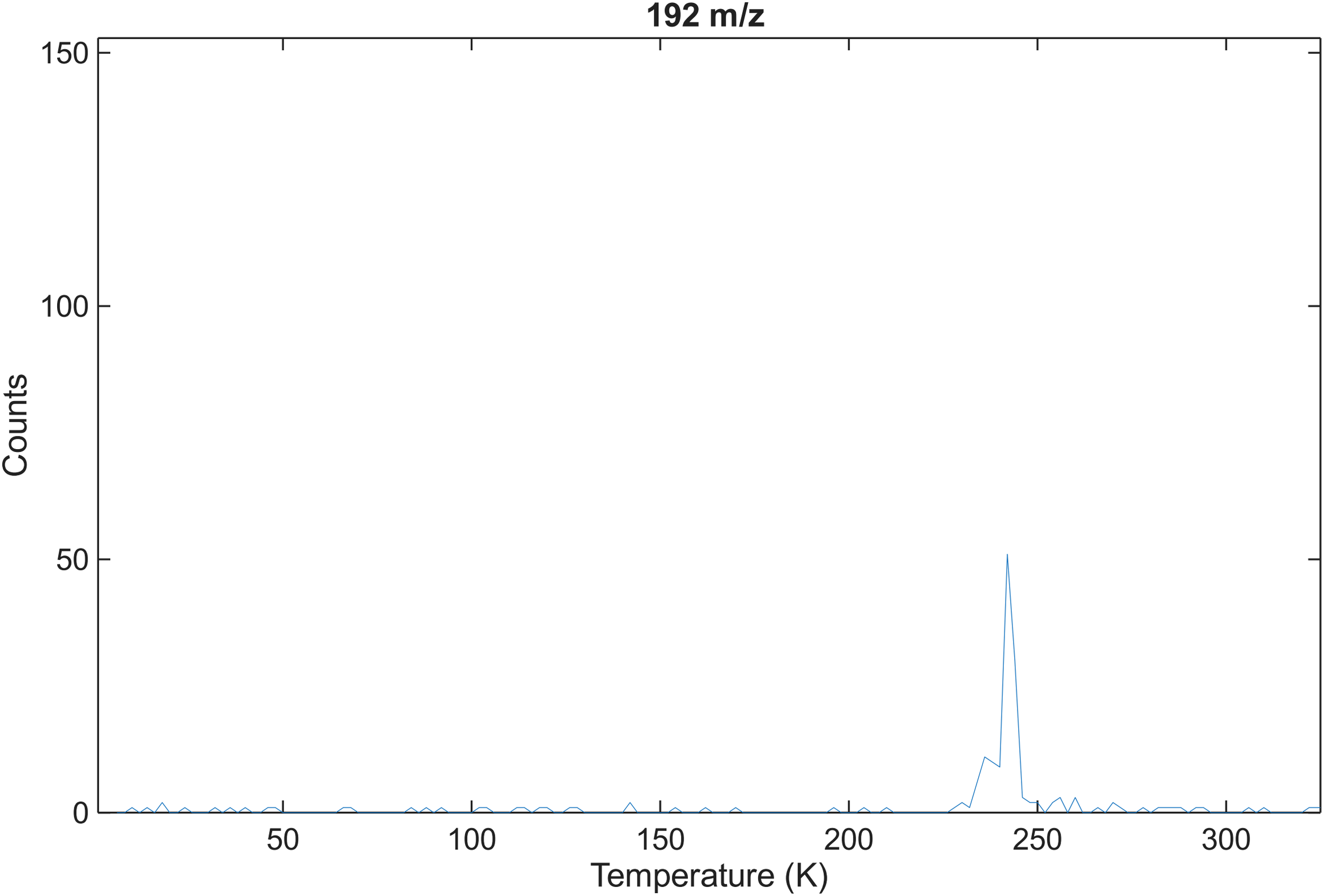
Temperature (K)


192 m/z
150
100
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Counts
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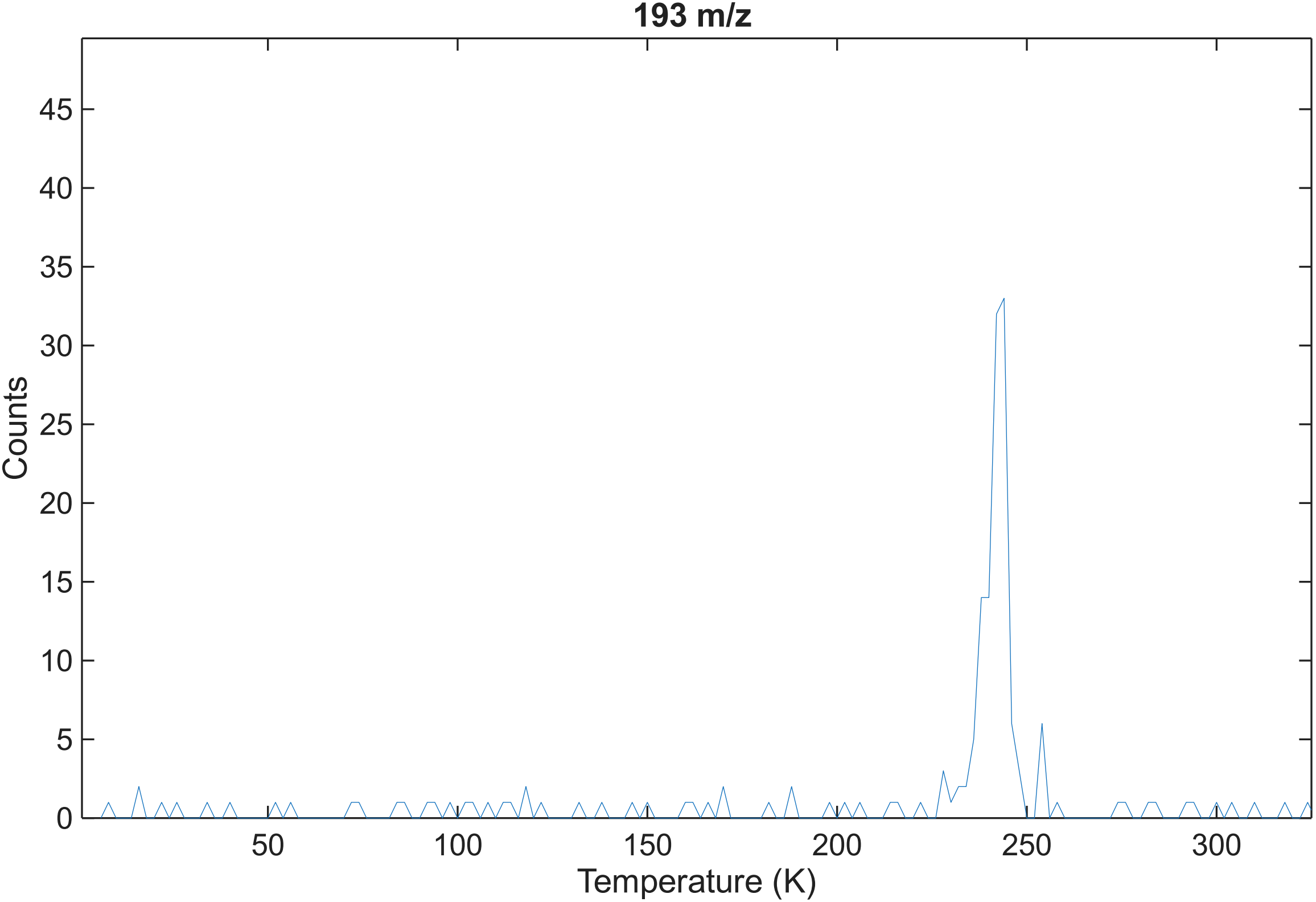
Temperature (K)


193 m/z
Counts
Temperature (K)
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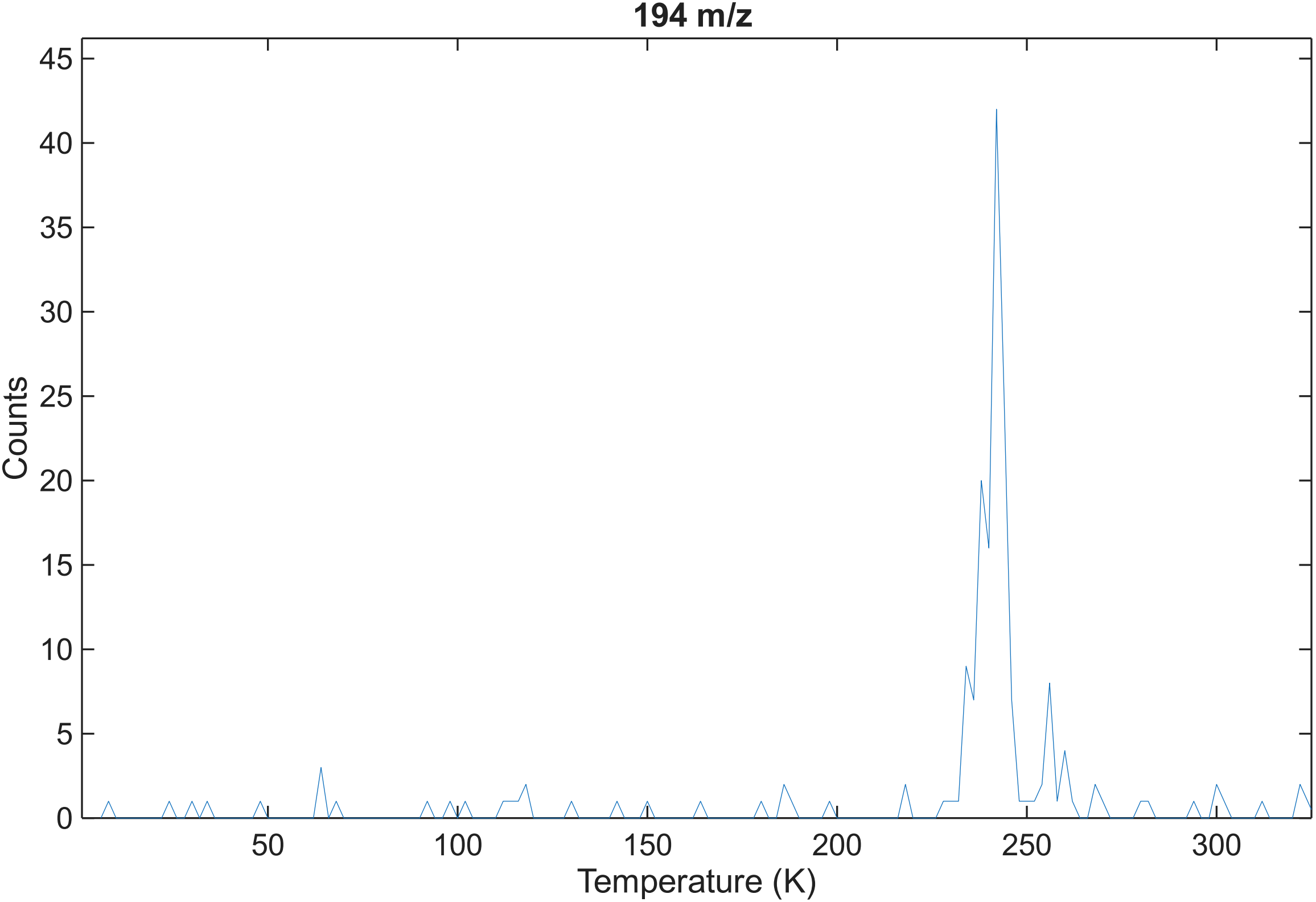
194 m/z
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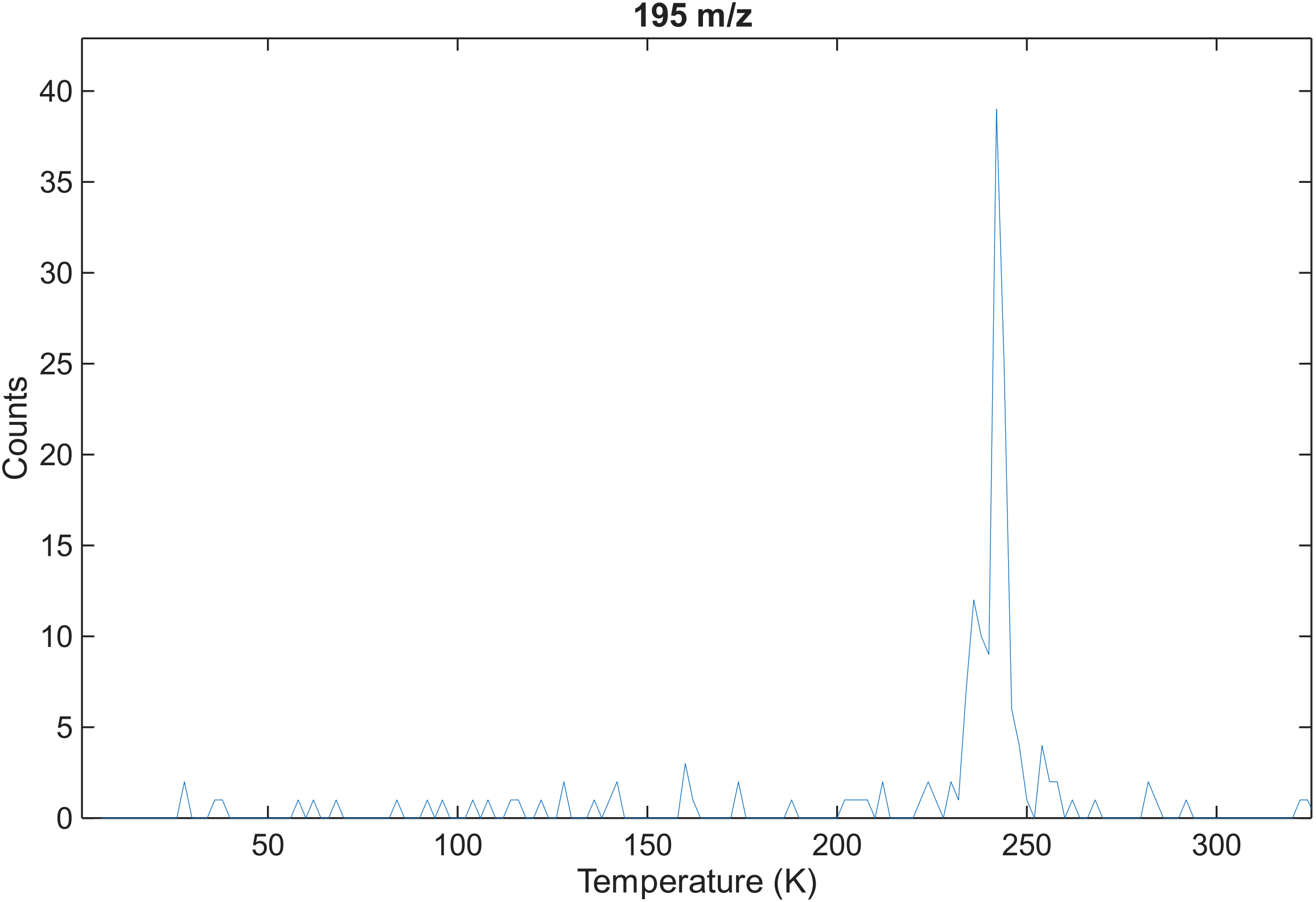
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Counts
Temperature (K)
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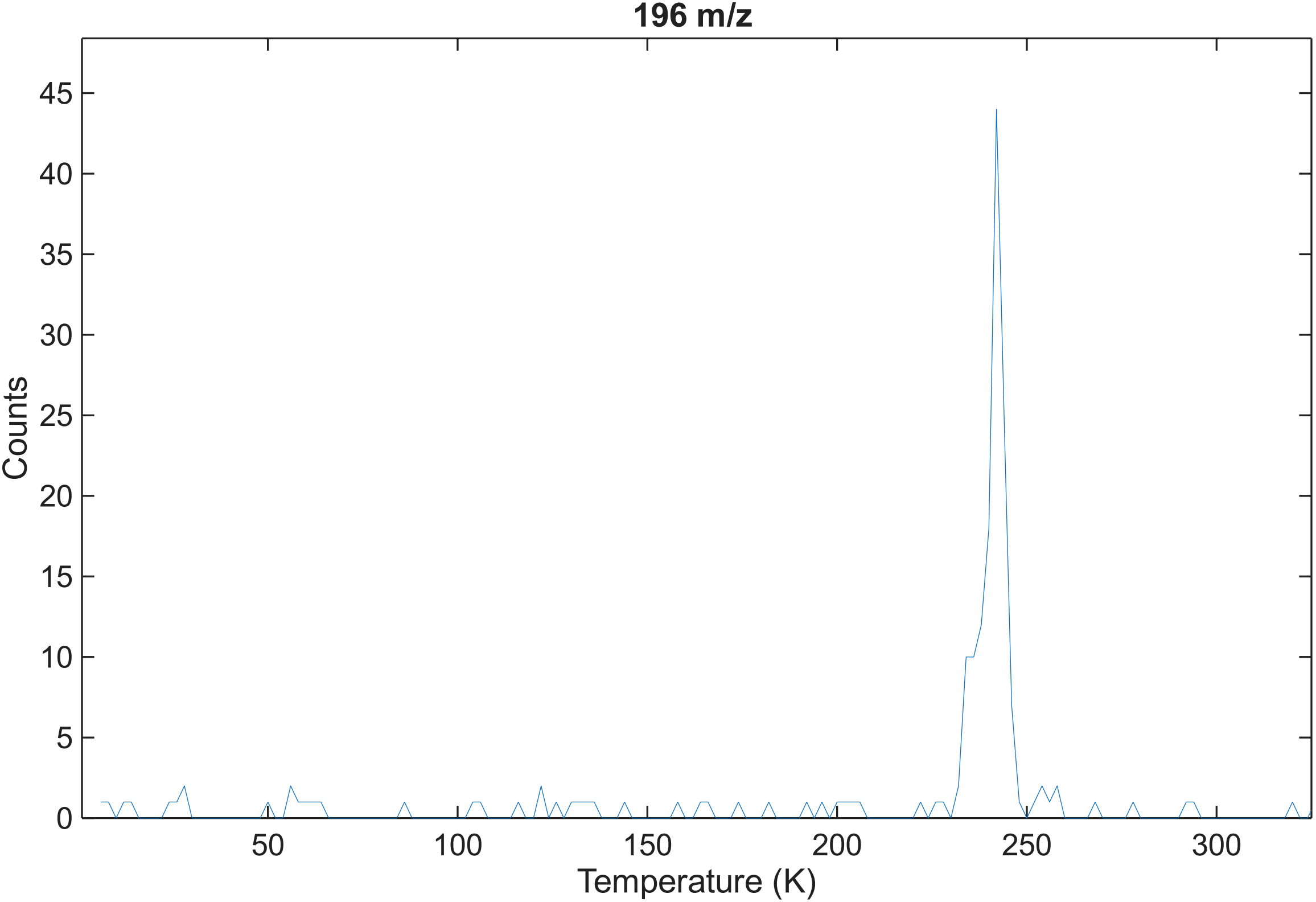
196 m/z
Counts
Temperature (K)
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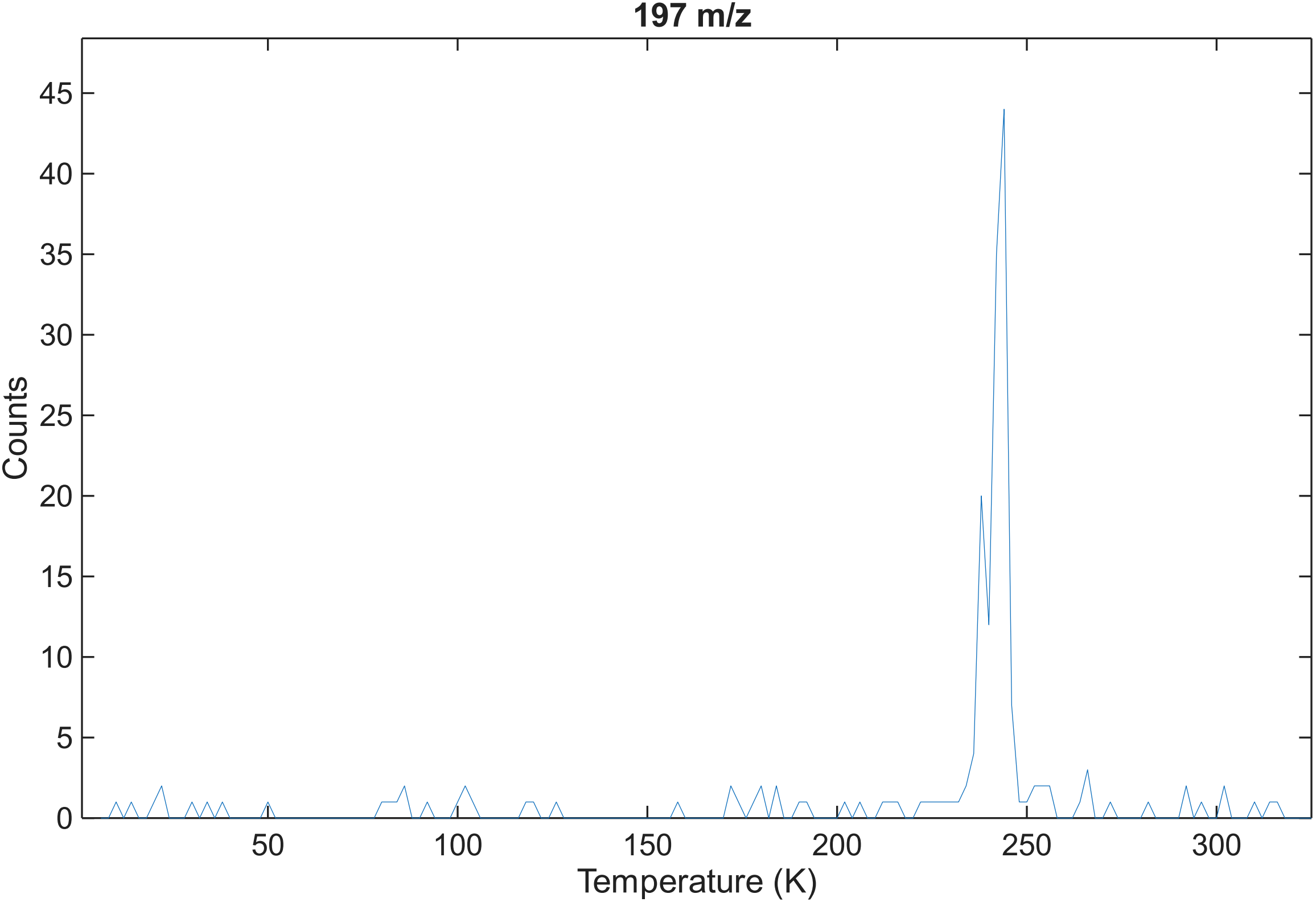
197 m/z
Counts
Temperature (K)
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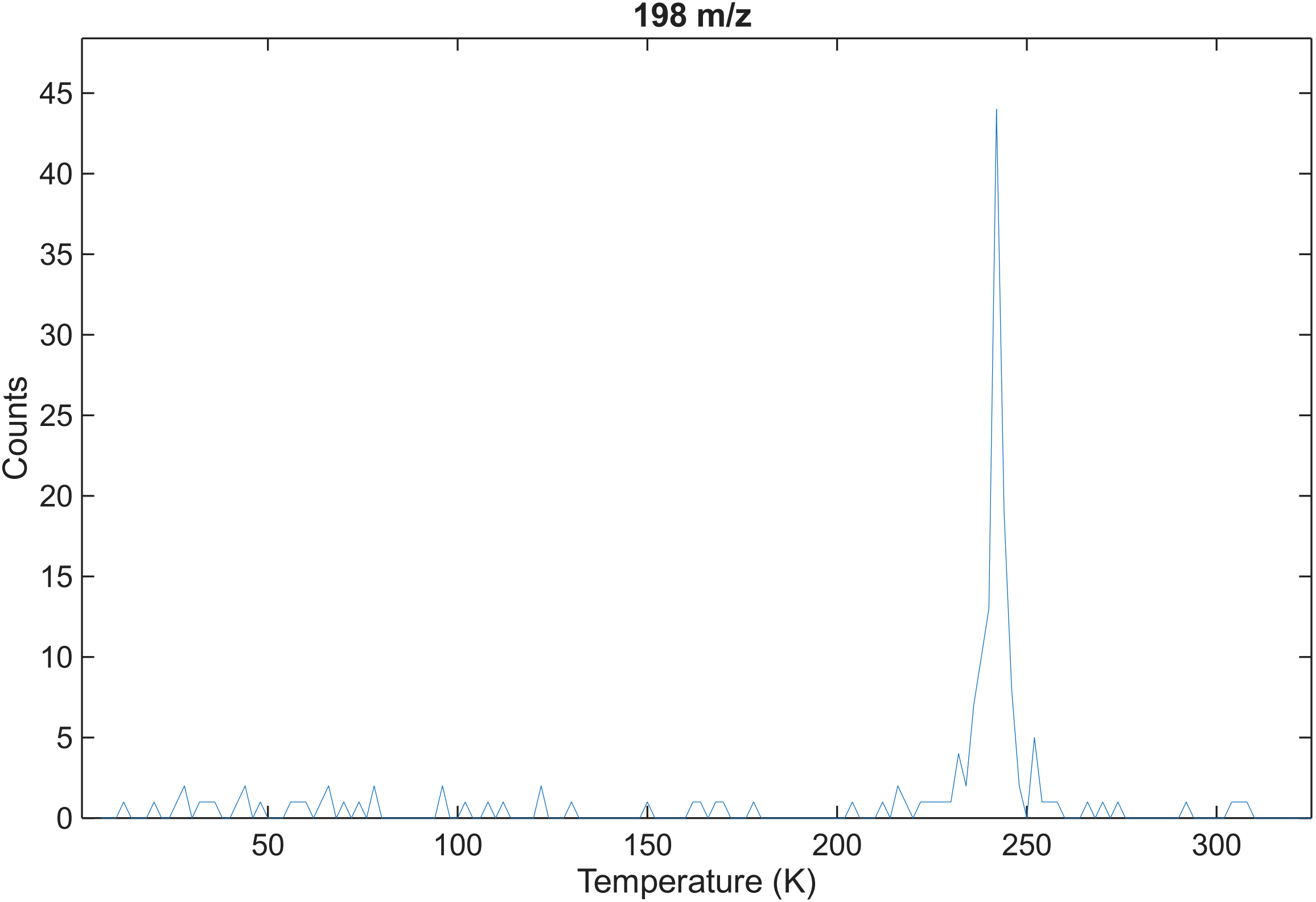
198 m/z
Counts
Temperature (K)
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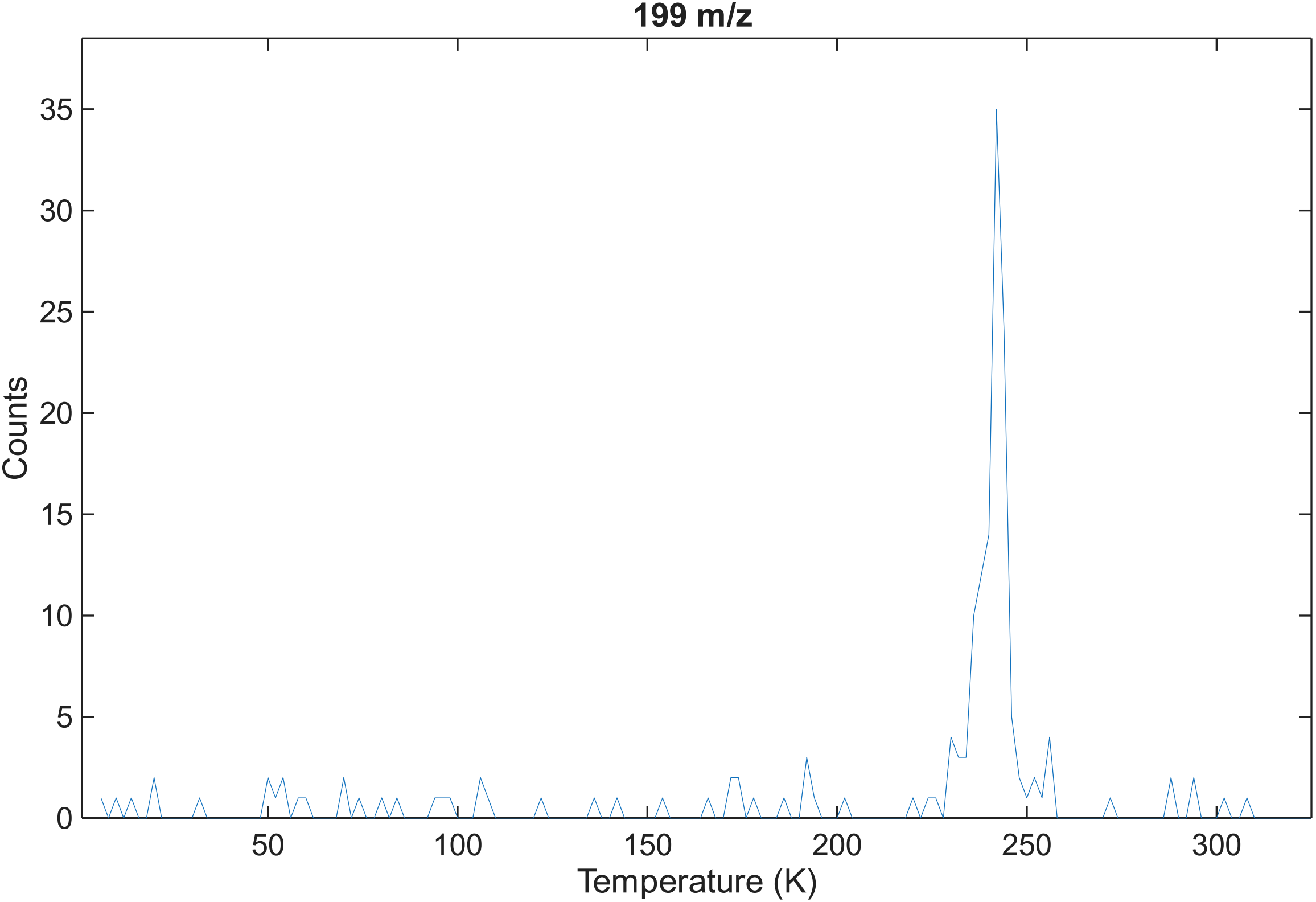
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Counts
Temperature (K)
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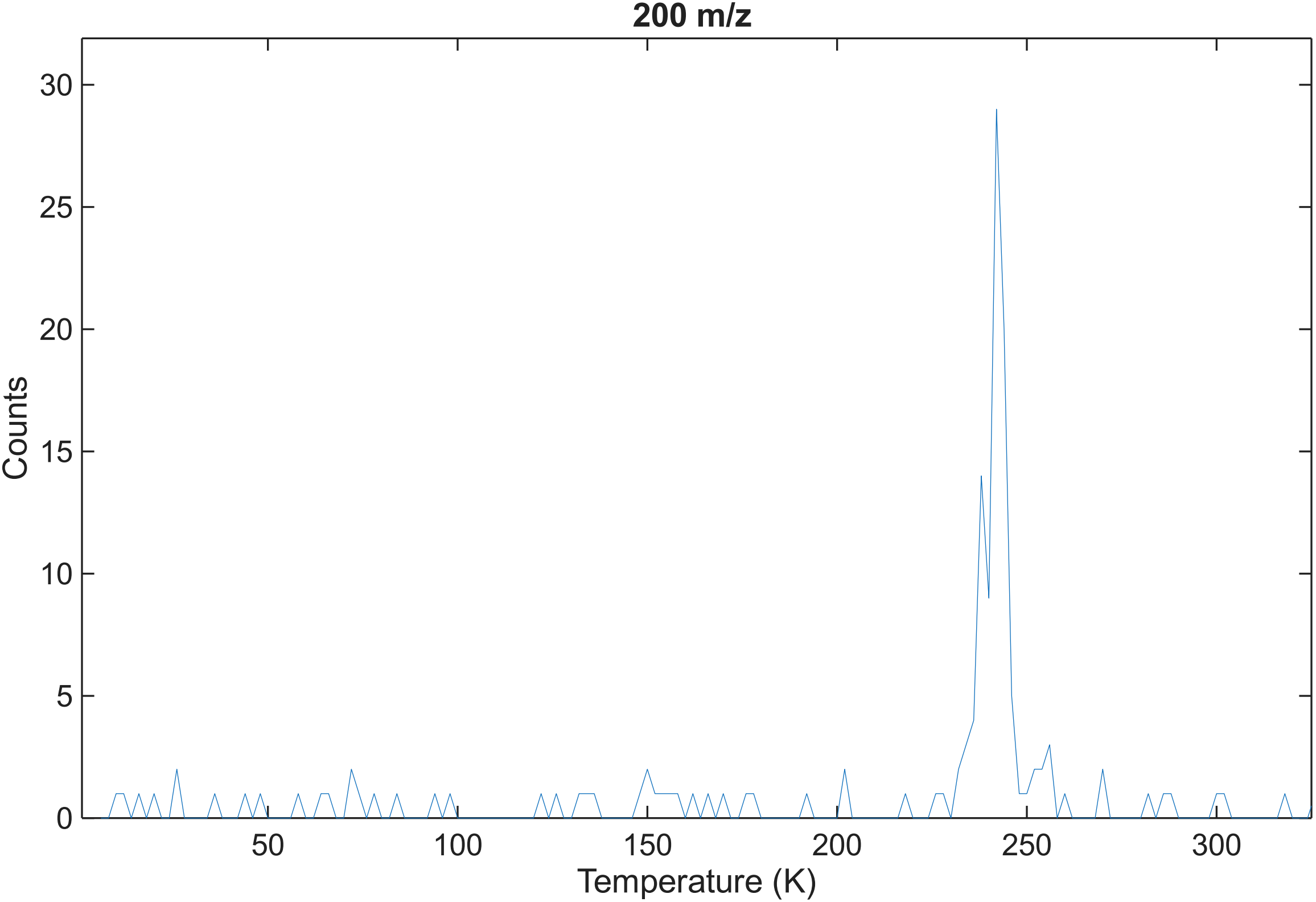
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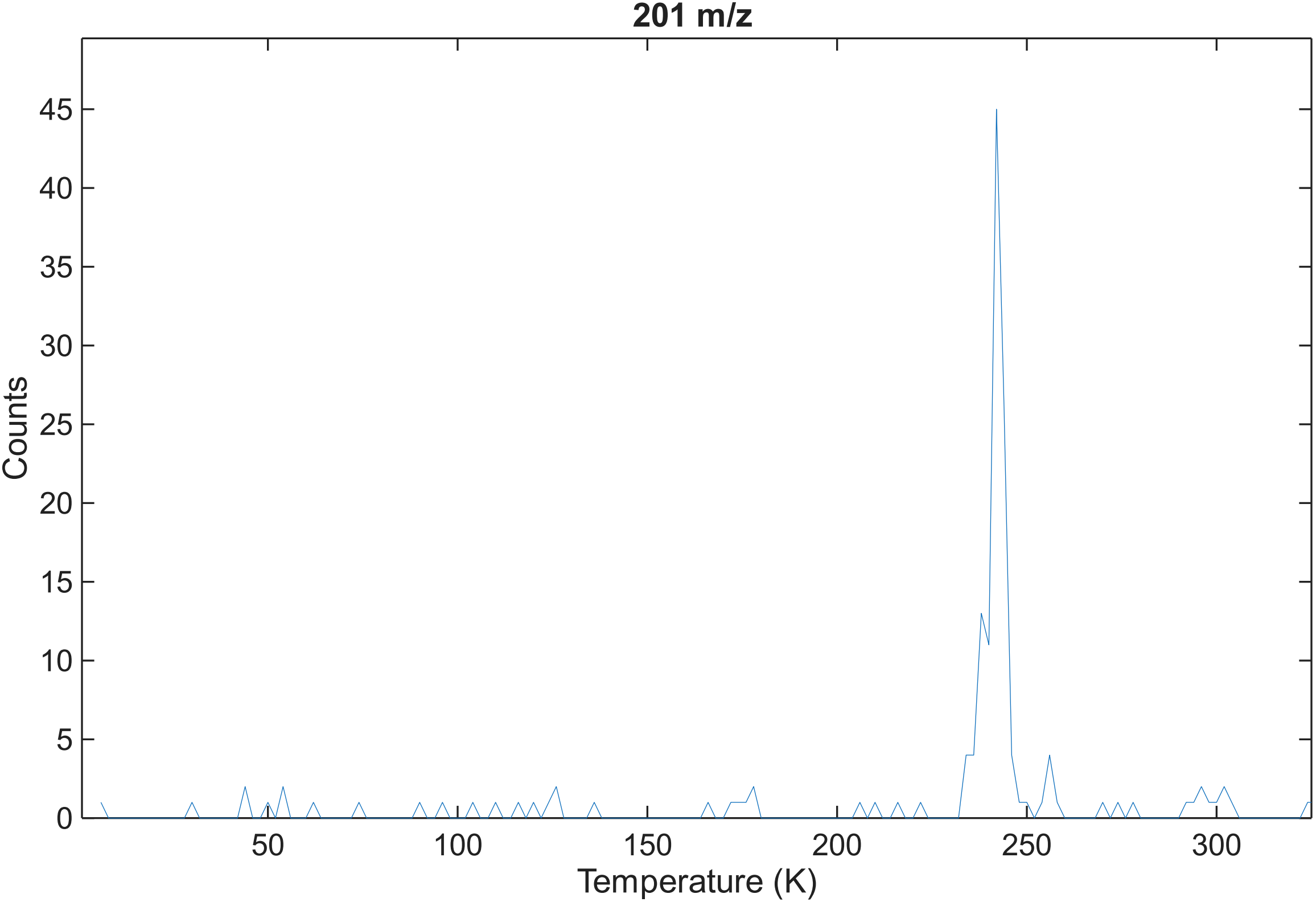
201 m/z
Counts
Temperature (K)
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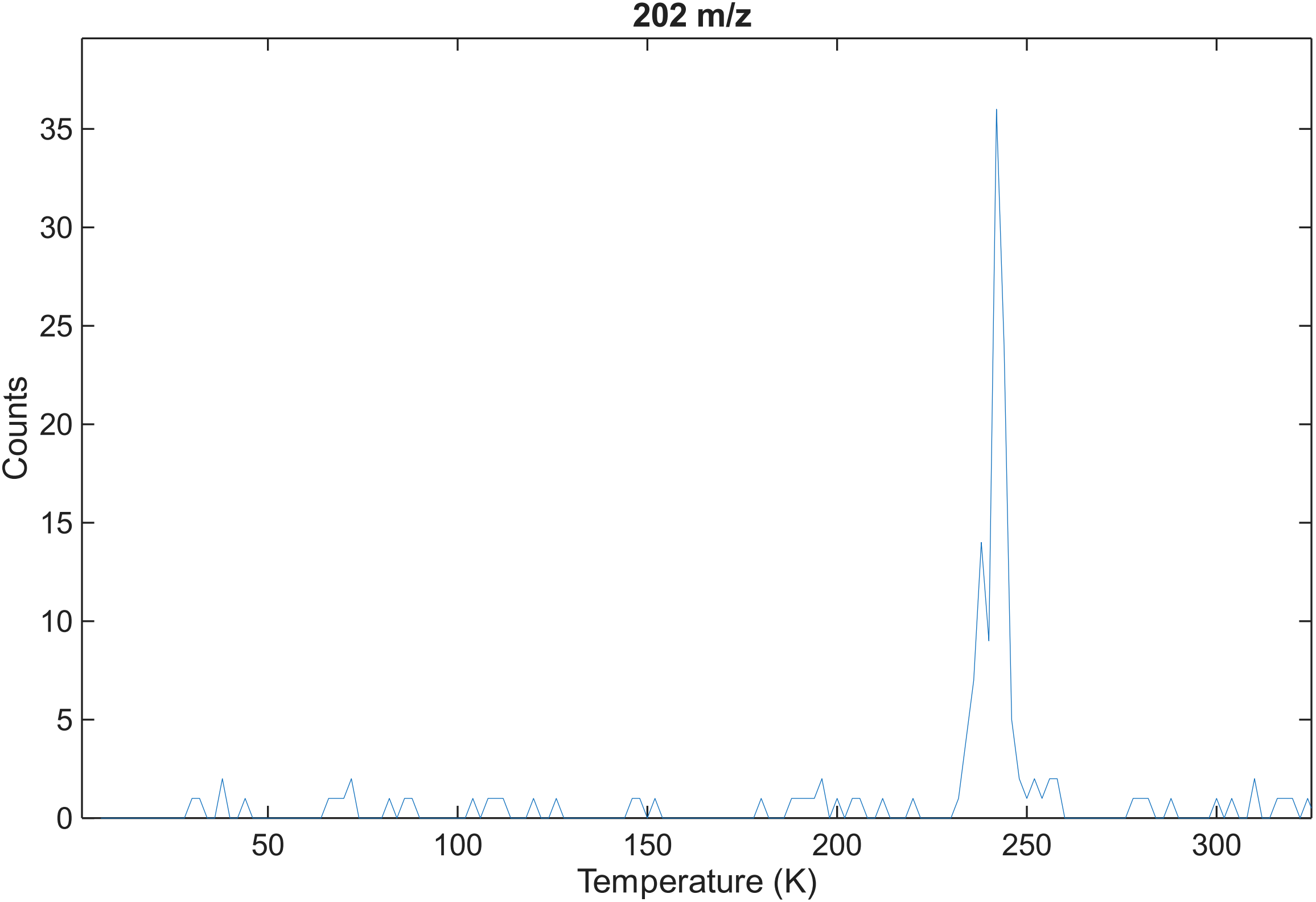
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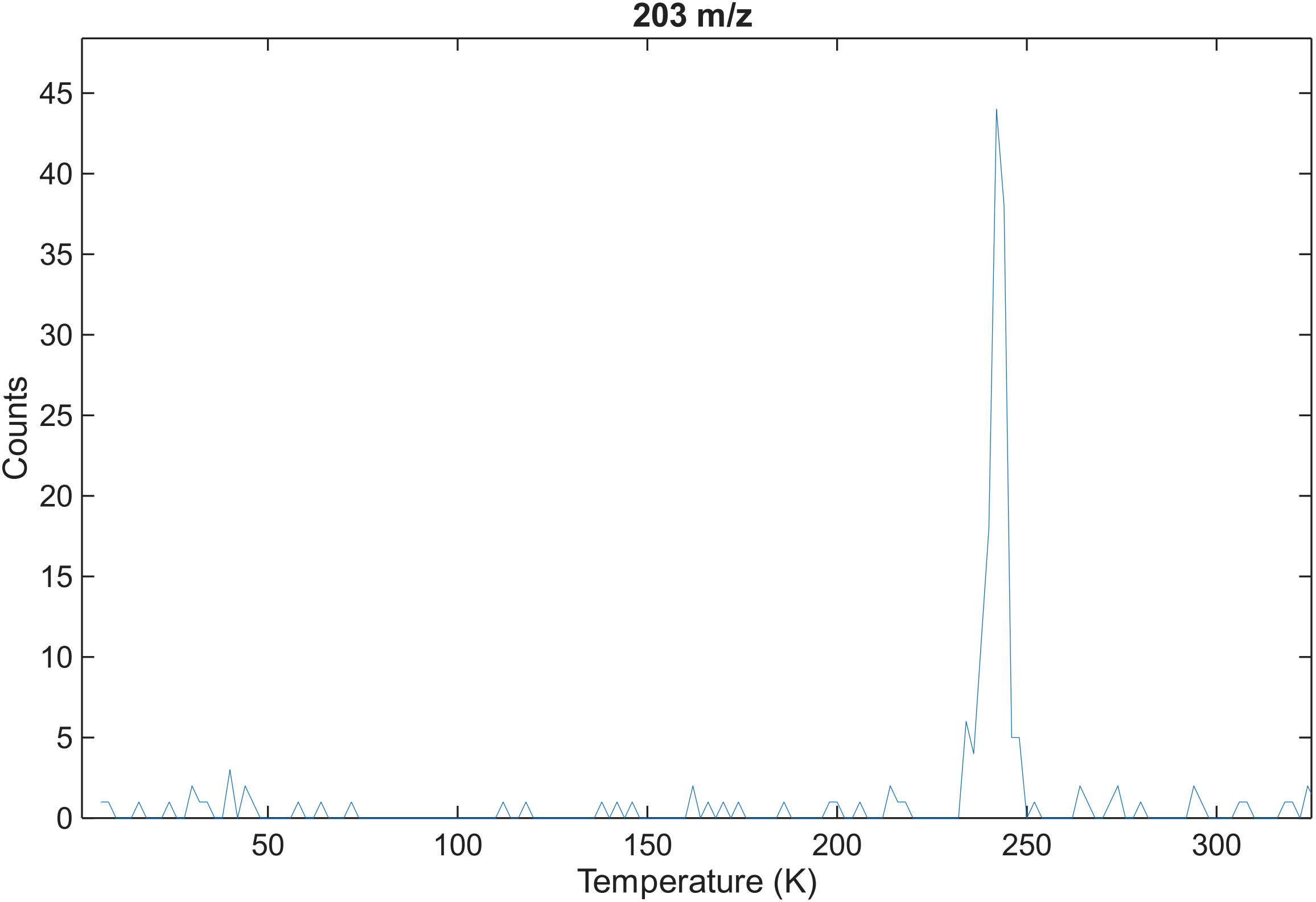
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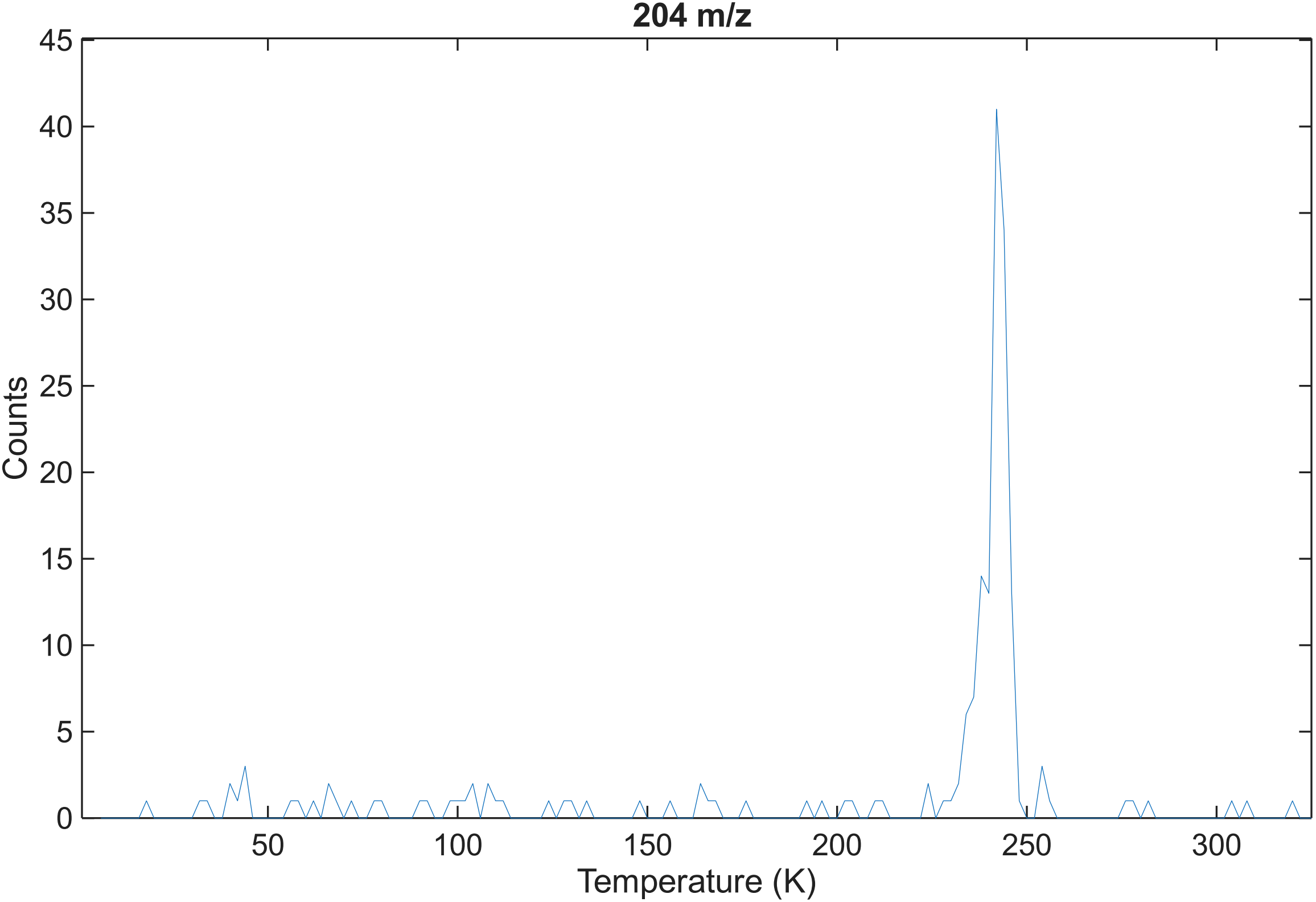
204 m/z
Counts
Temperature (K)
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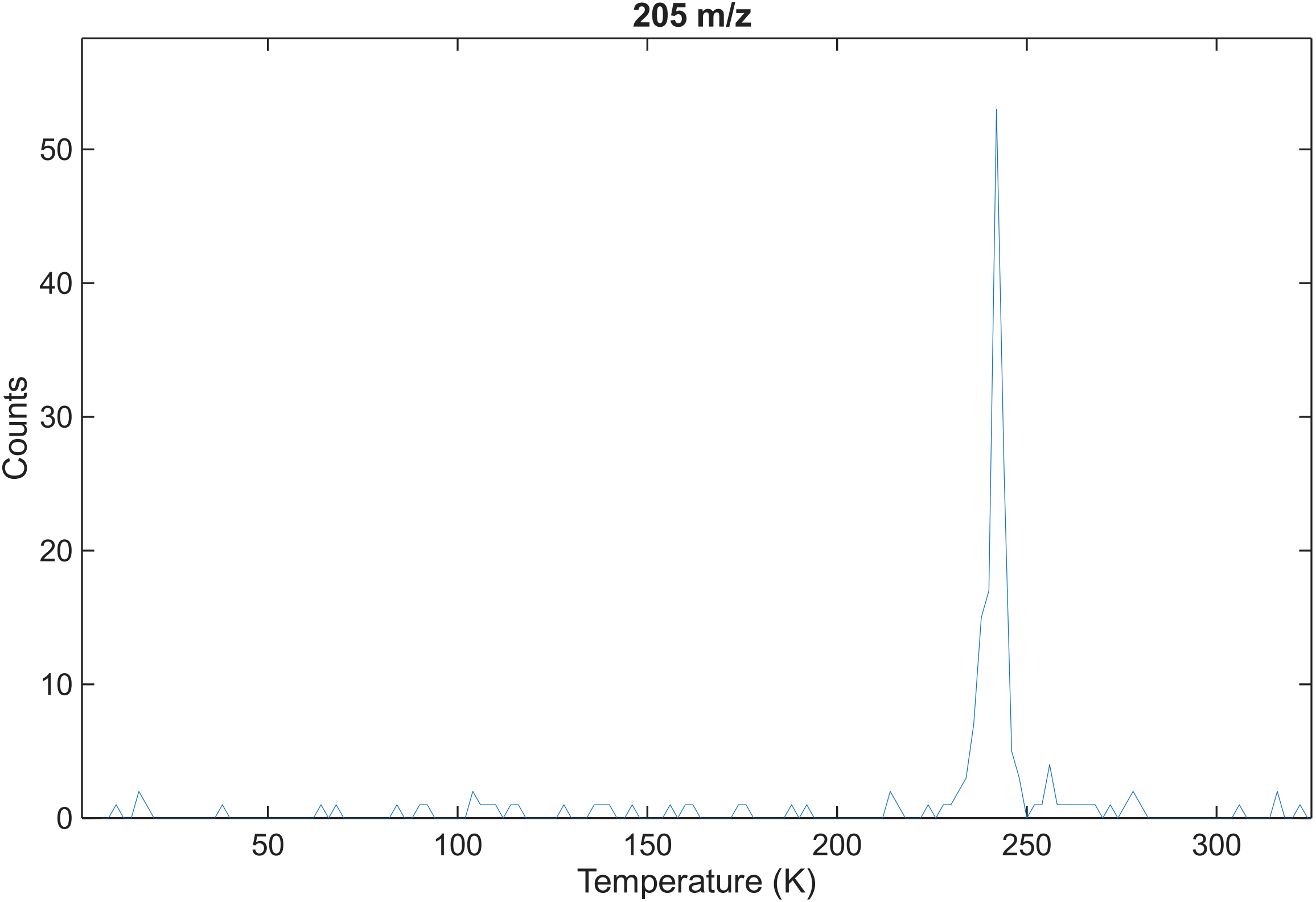
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Temperature (K)
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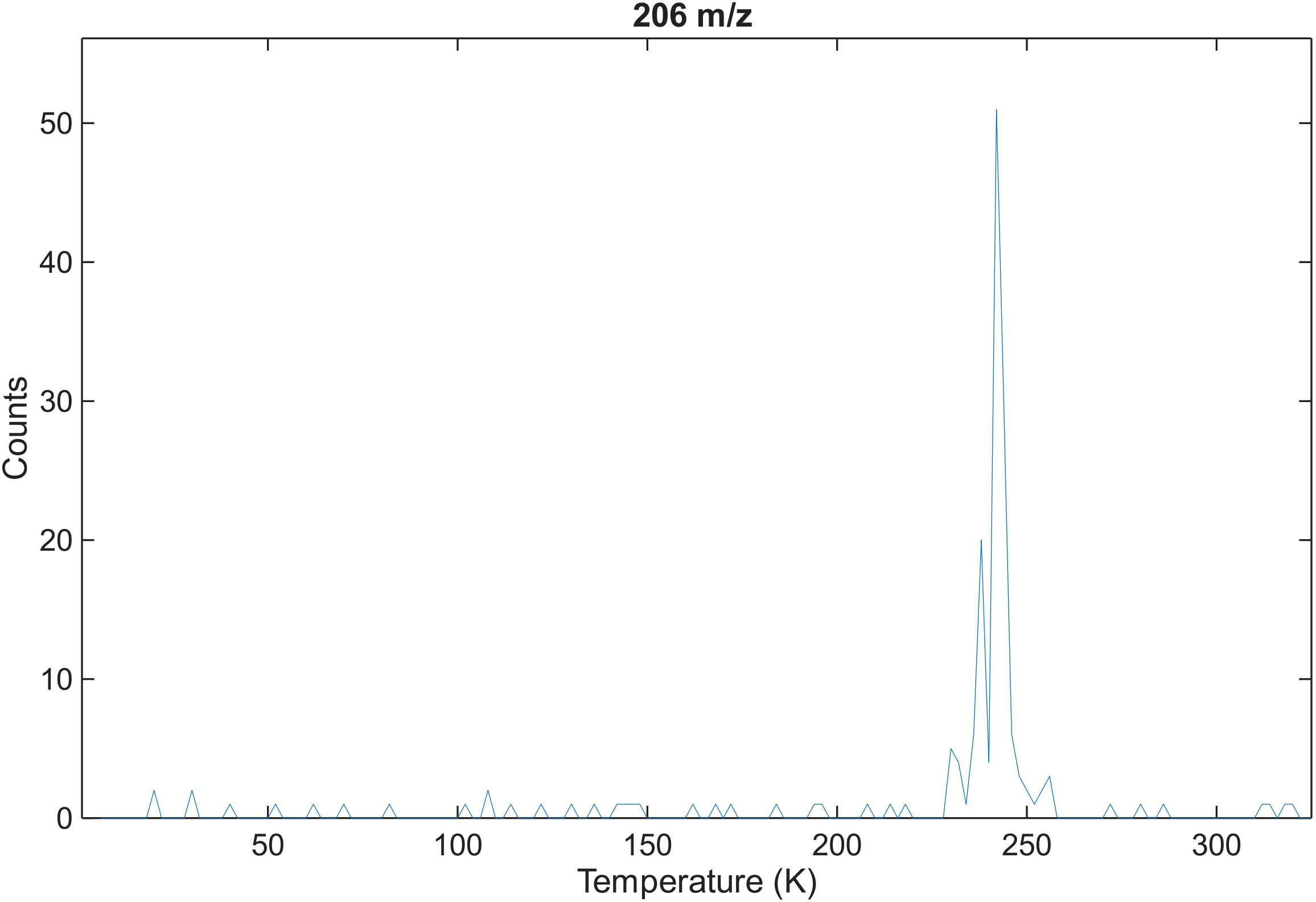
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Temperature (K)
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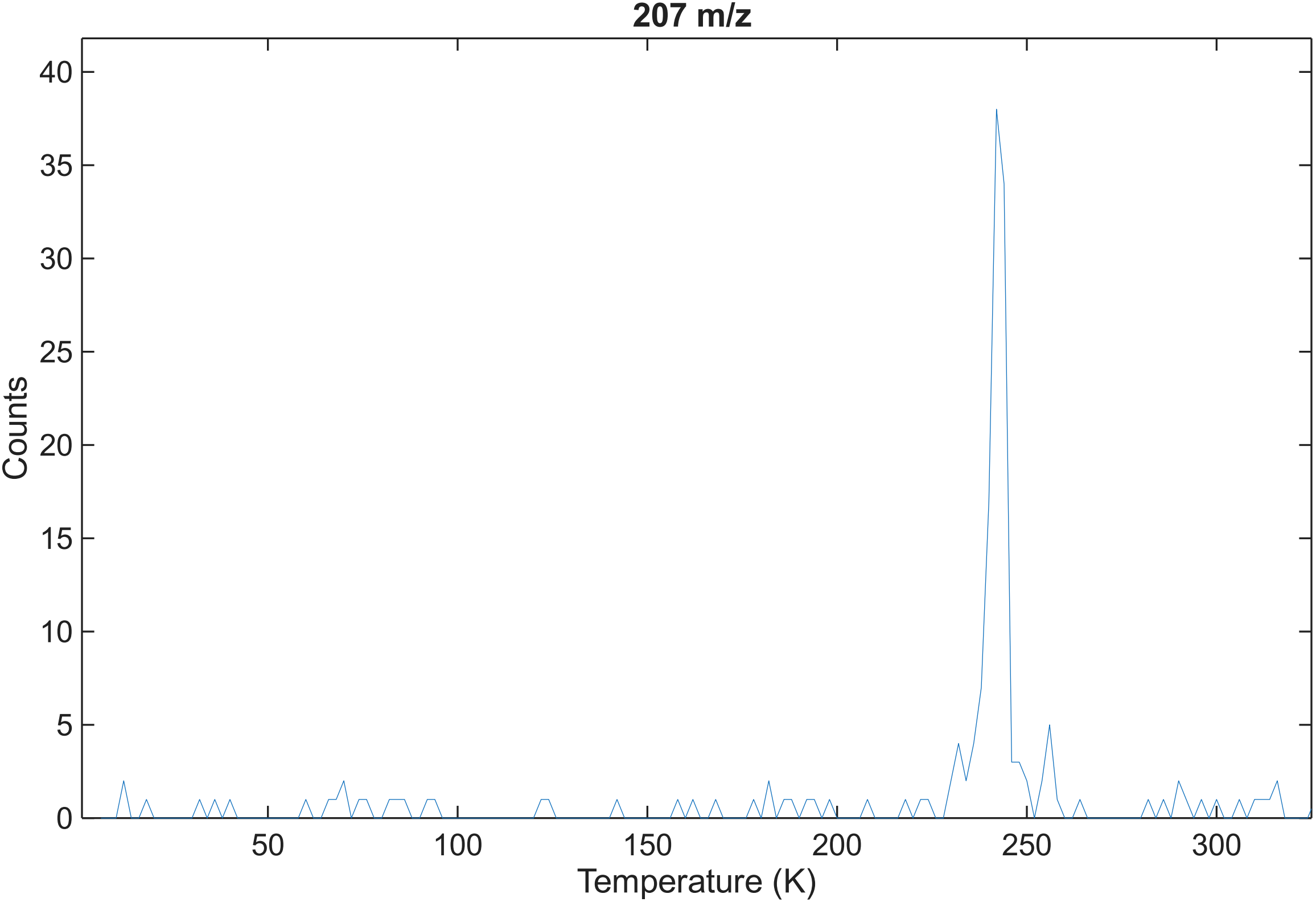
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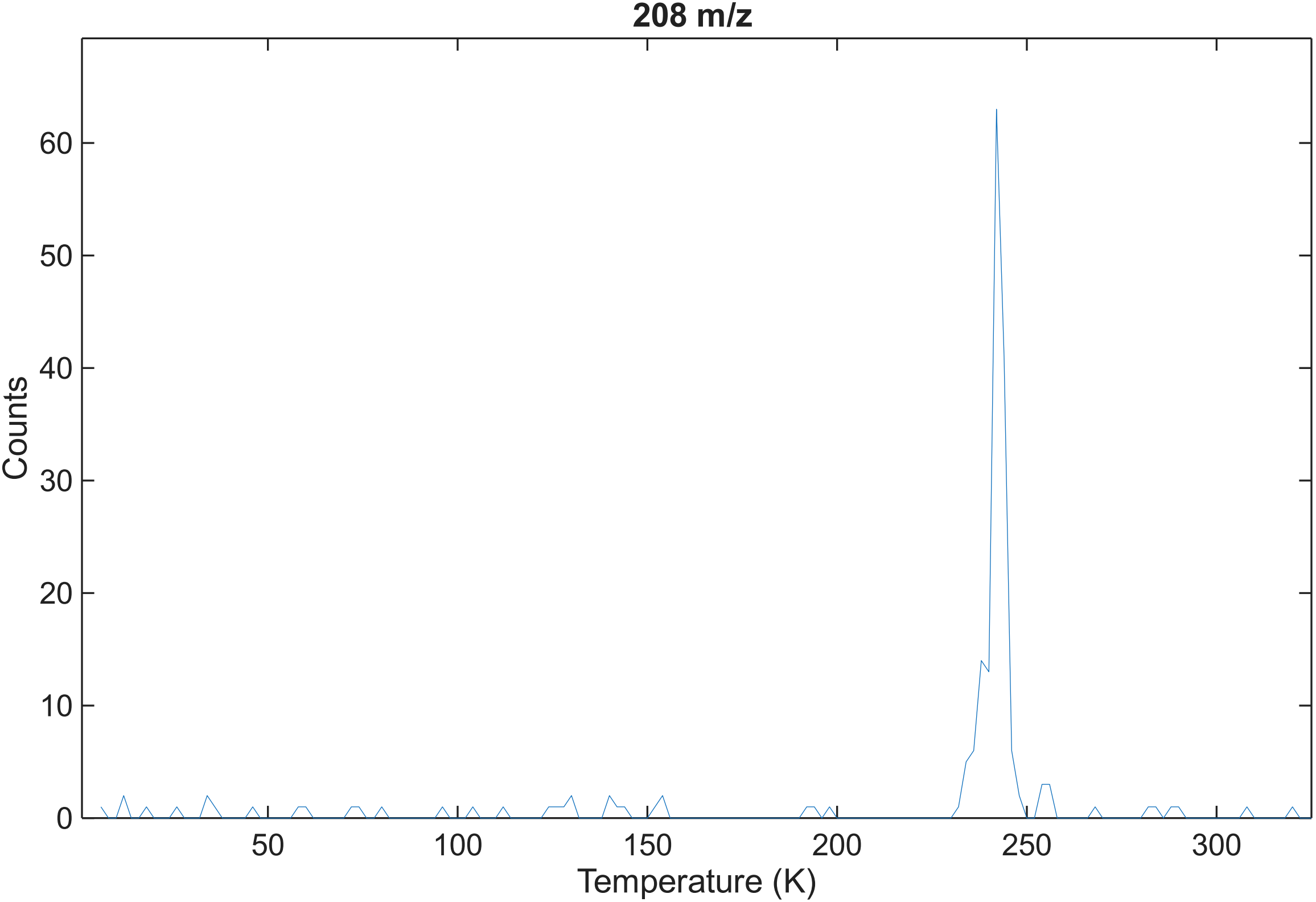
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Counts
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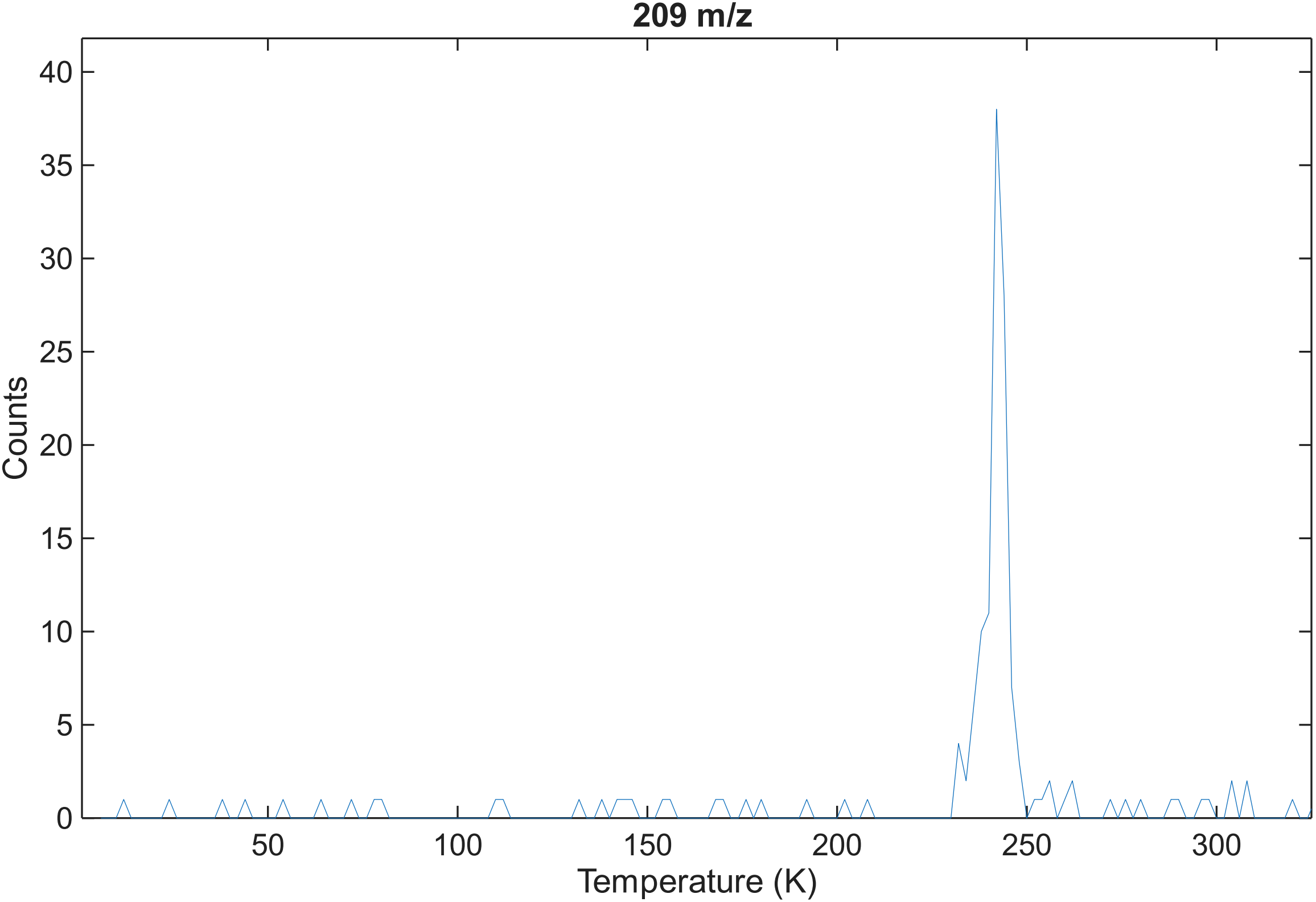
Temperature (K)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Counts
Temperature (K)
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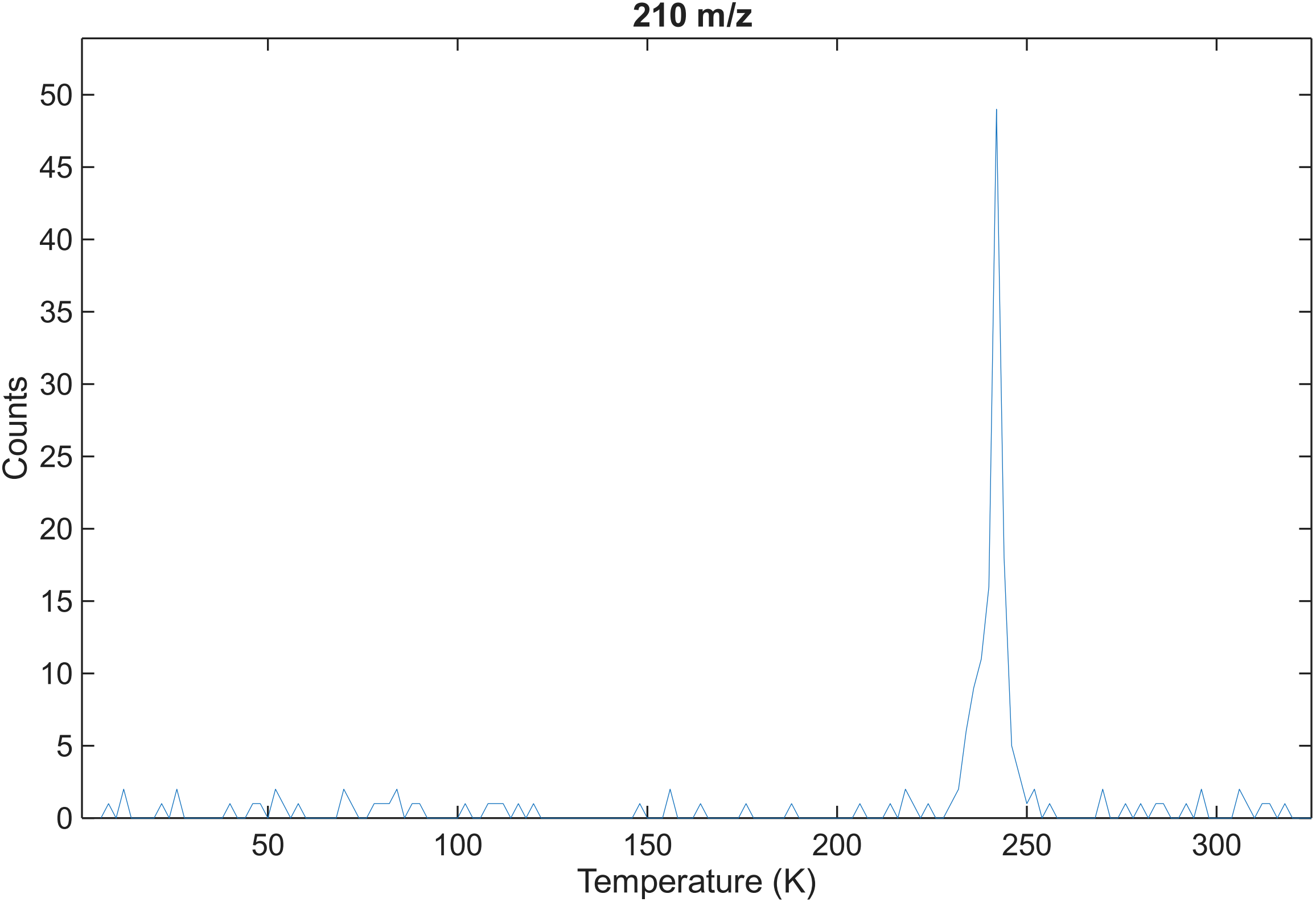
210 m/z
Counts
Temperature (K)
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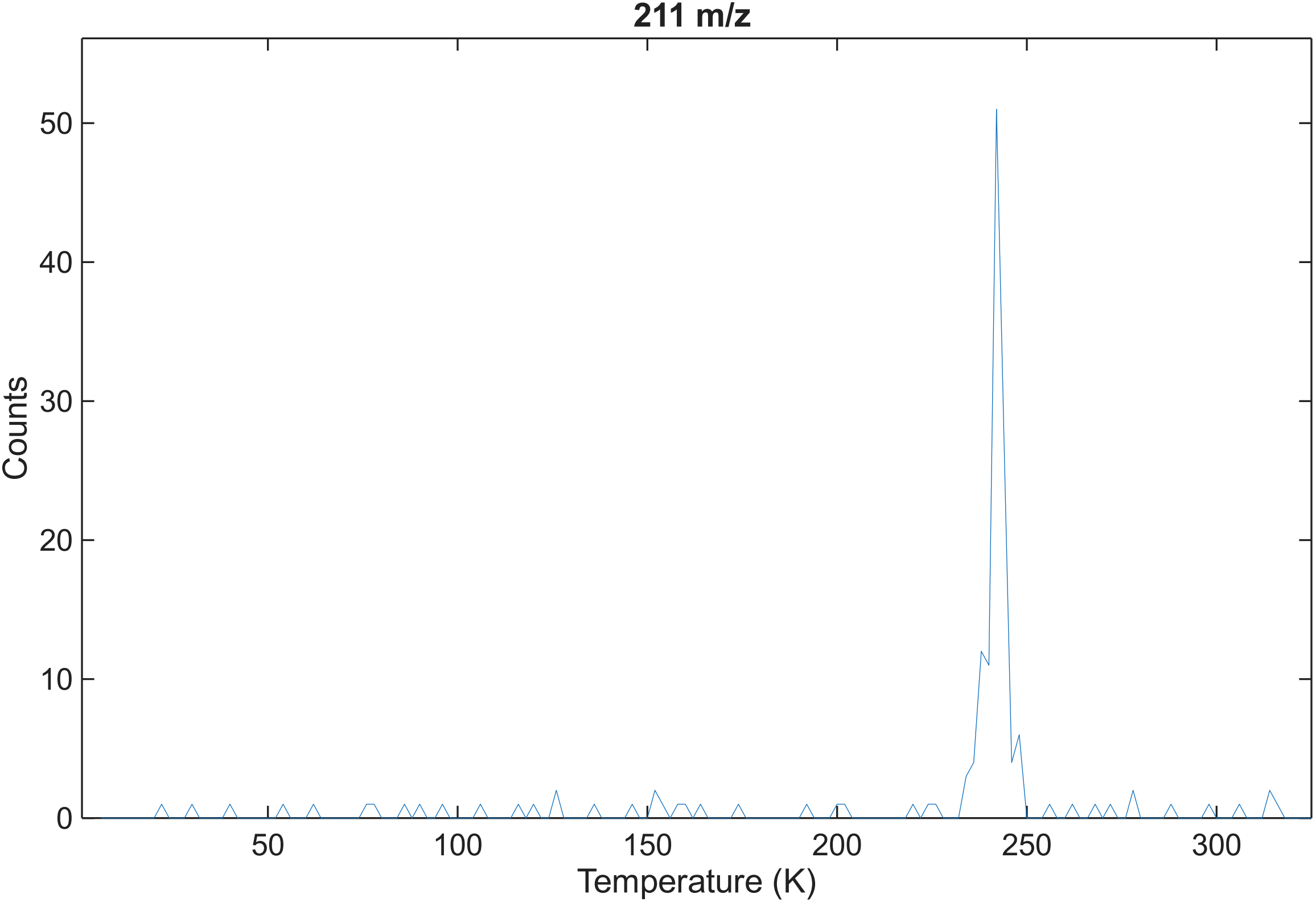
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Counts
Temperature (K)
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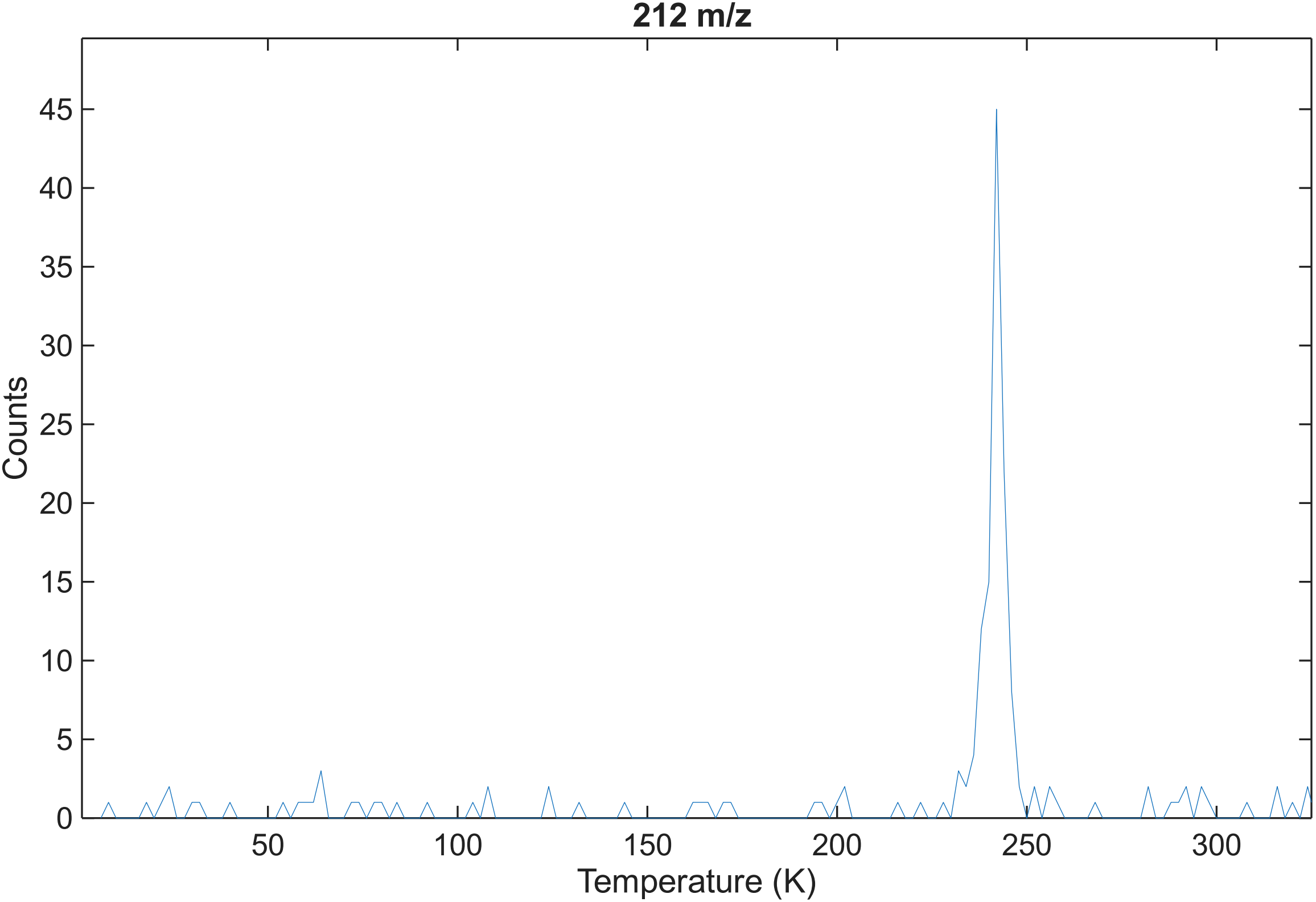
212 m/z
Counts
Temperature (K)
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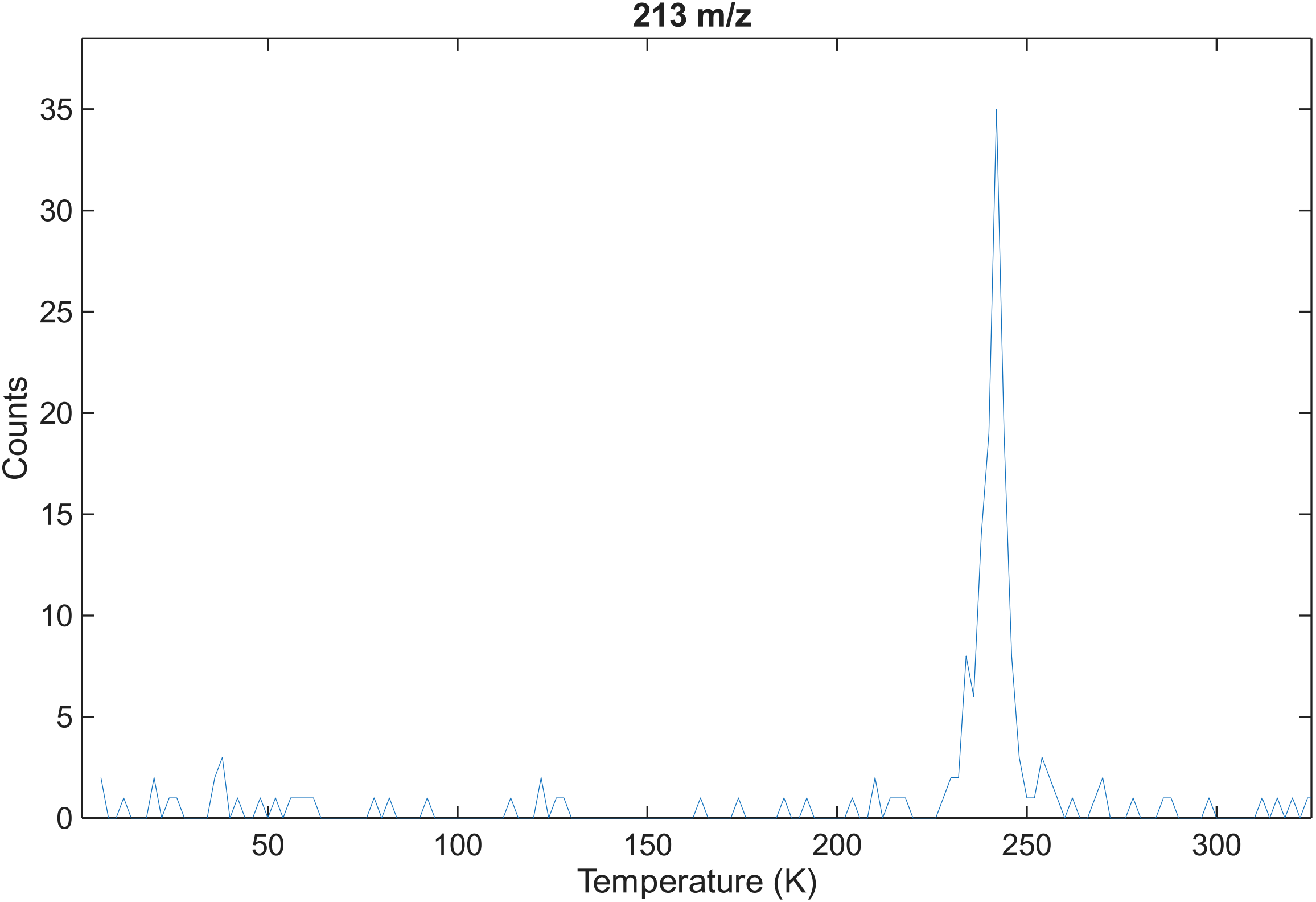
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Counts
Temperature (K)
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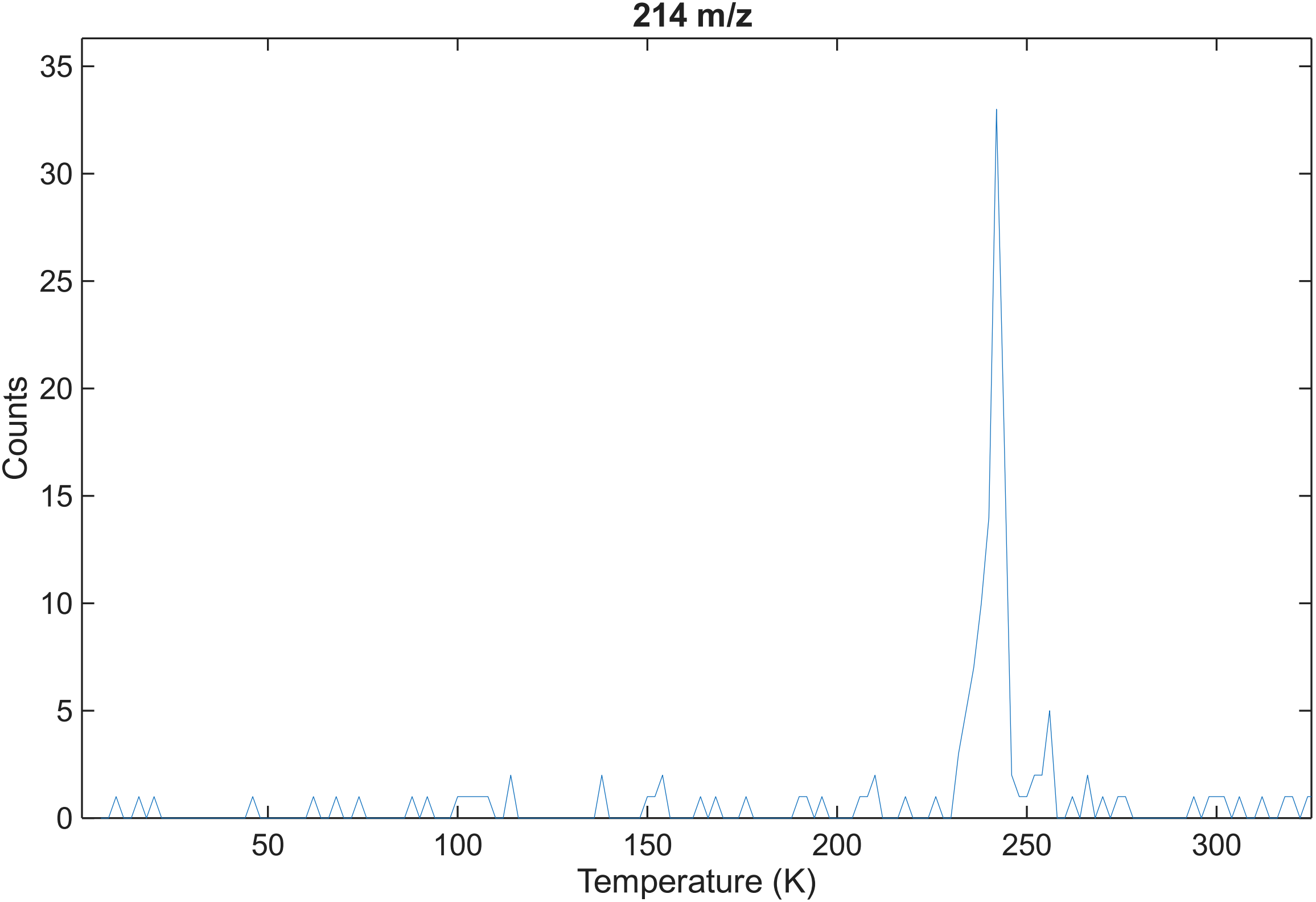
214 m/z
Counts
Temperature (K)
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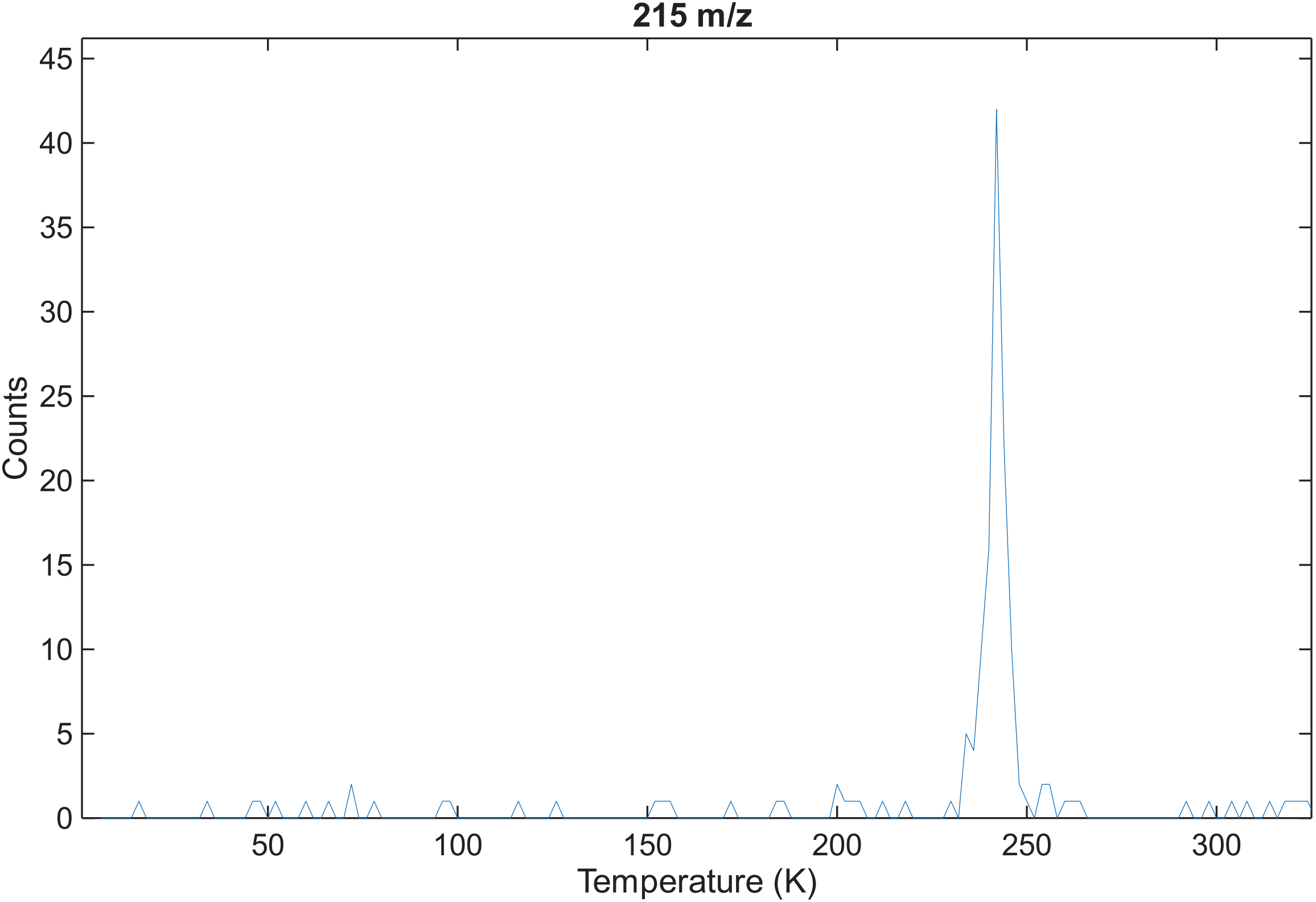
100
150
200
250
300


215 m/z
Counts
Temperature (K)
0
5
10
15
20
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150
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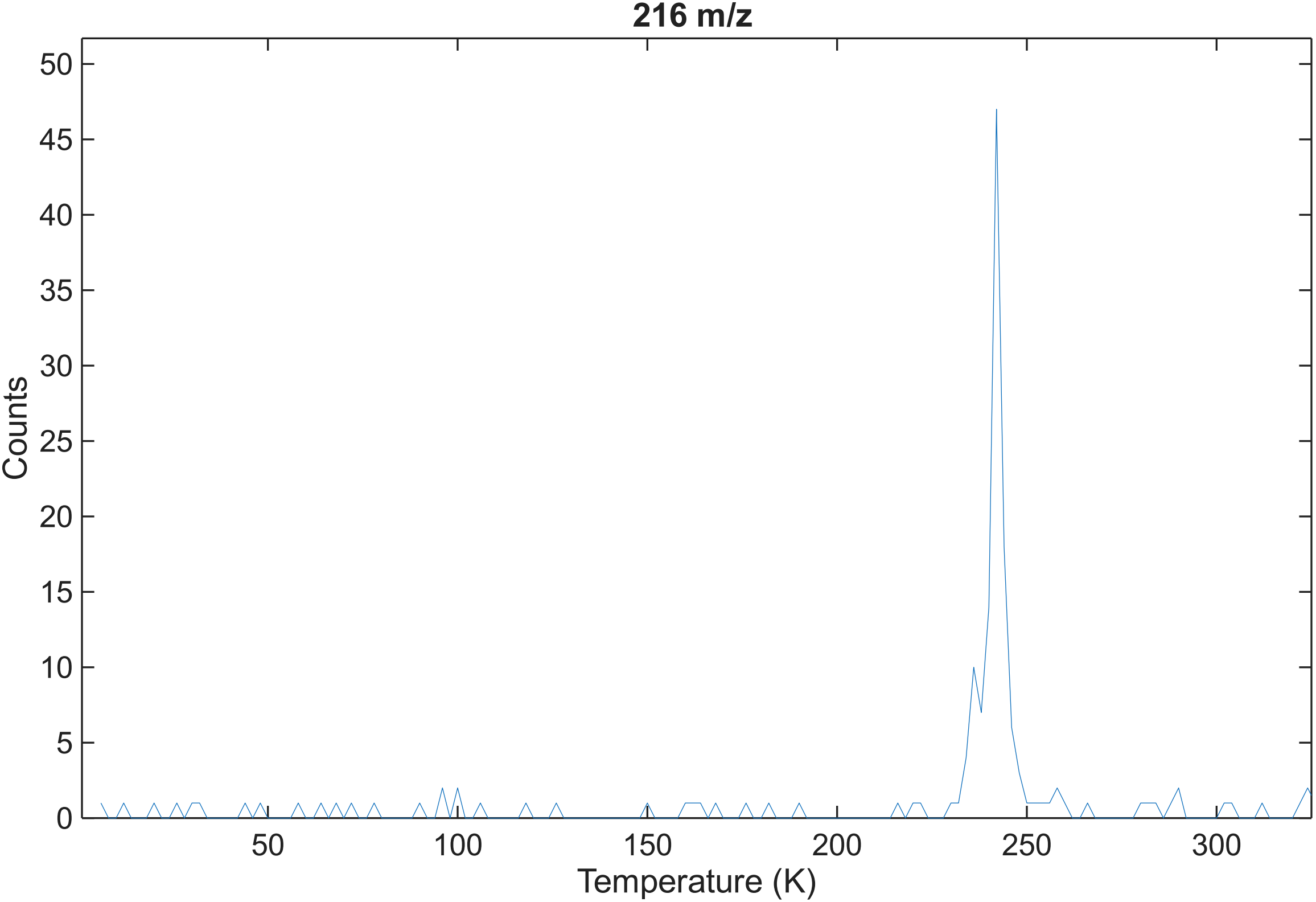
250
300


216 m/z
Counts
Temperature (K)
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250
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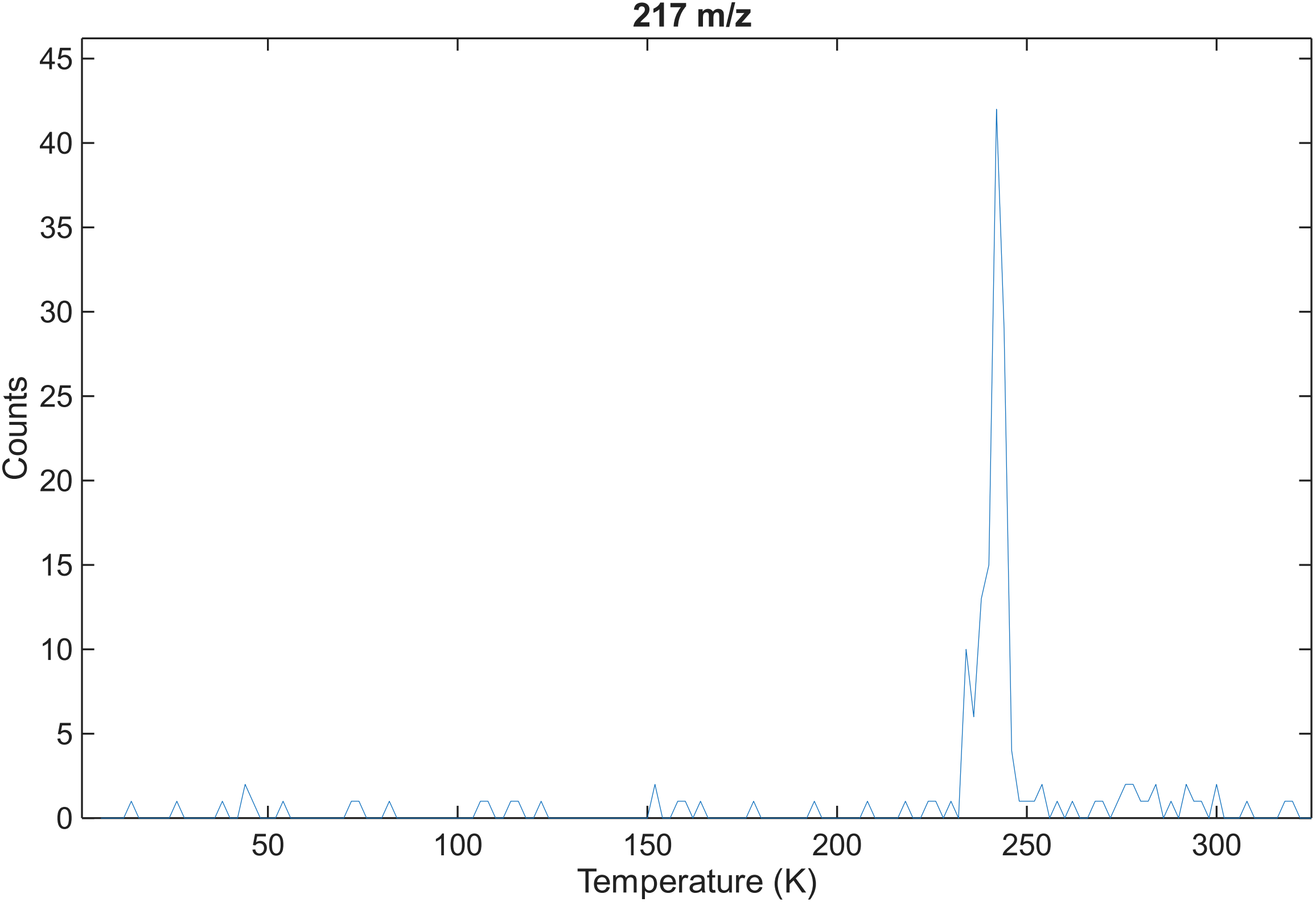
217 m/z
Counts
Temperature (K)
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20
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150
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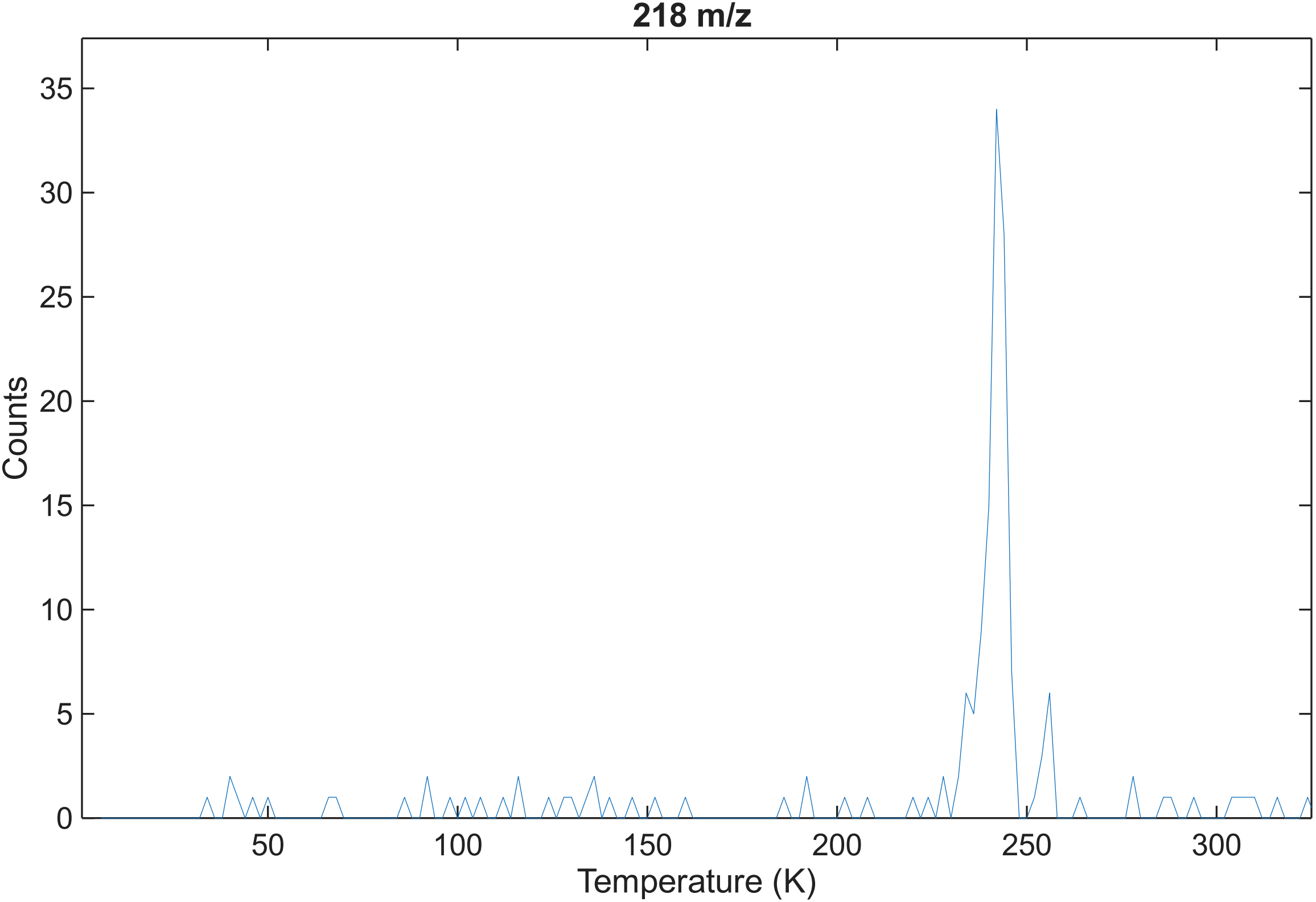
218 m/z
Counts
Temperature (K)
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250
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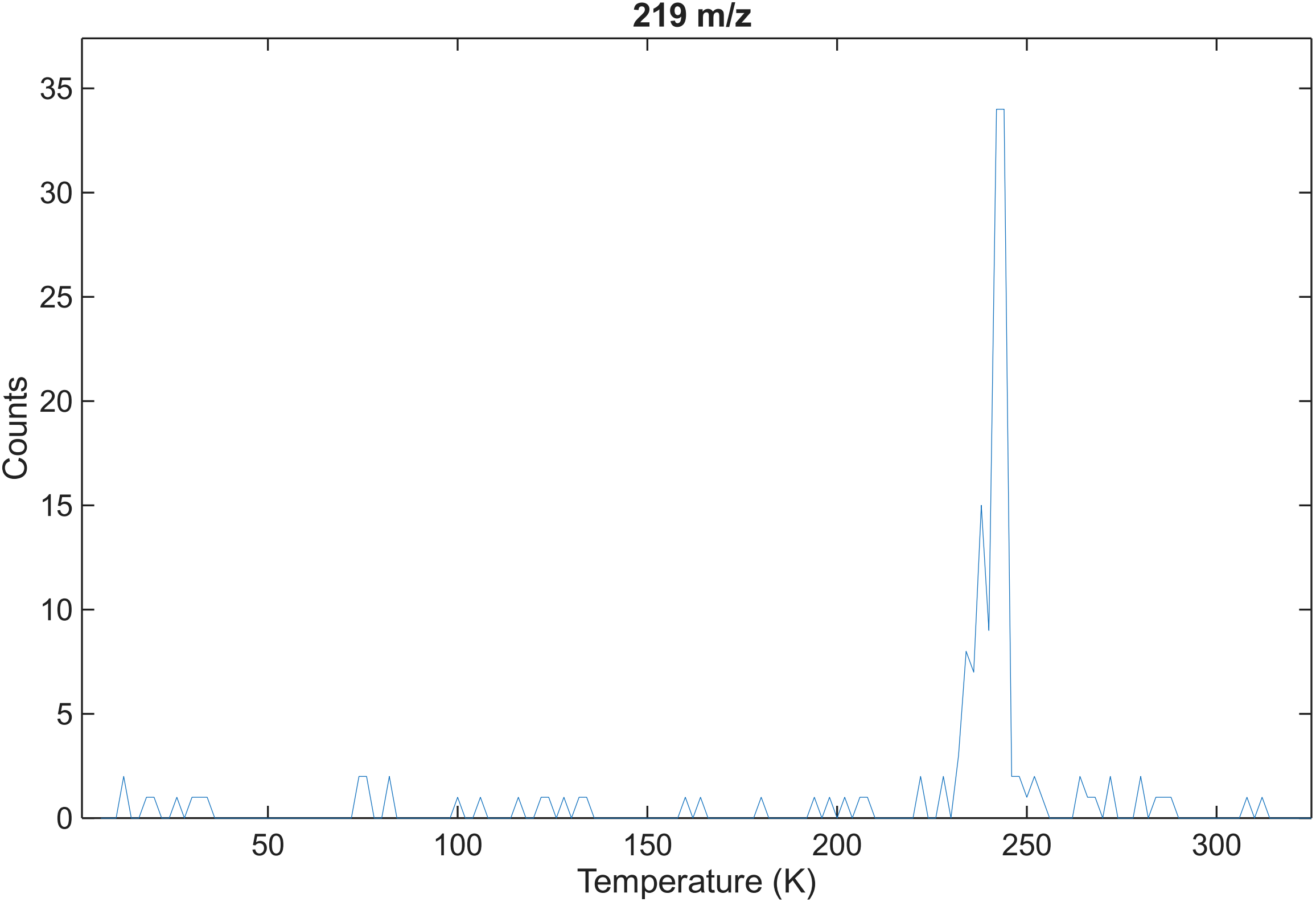
219 m/z
Counts
Temperature (K)
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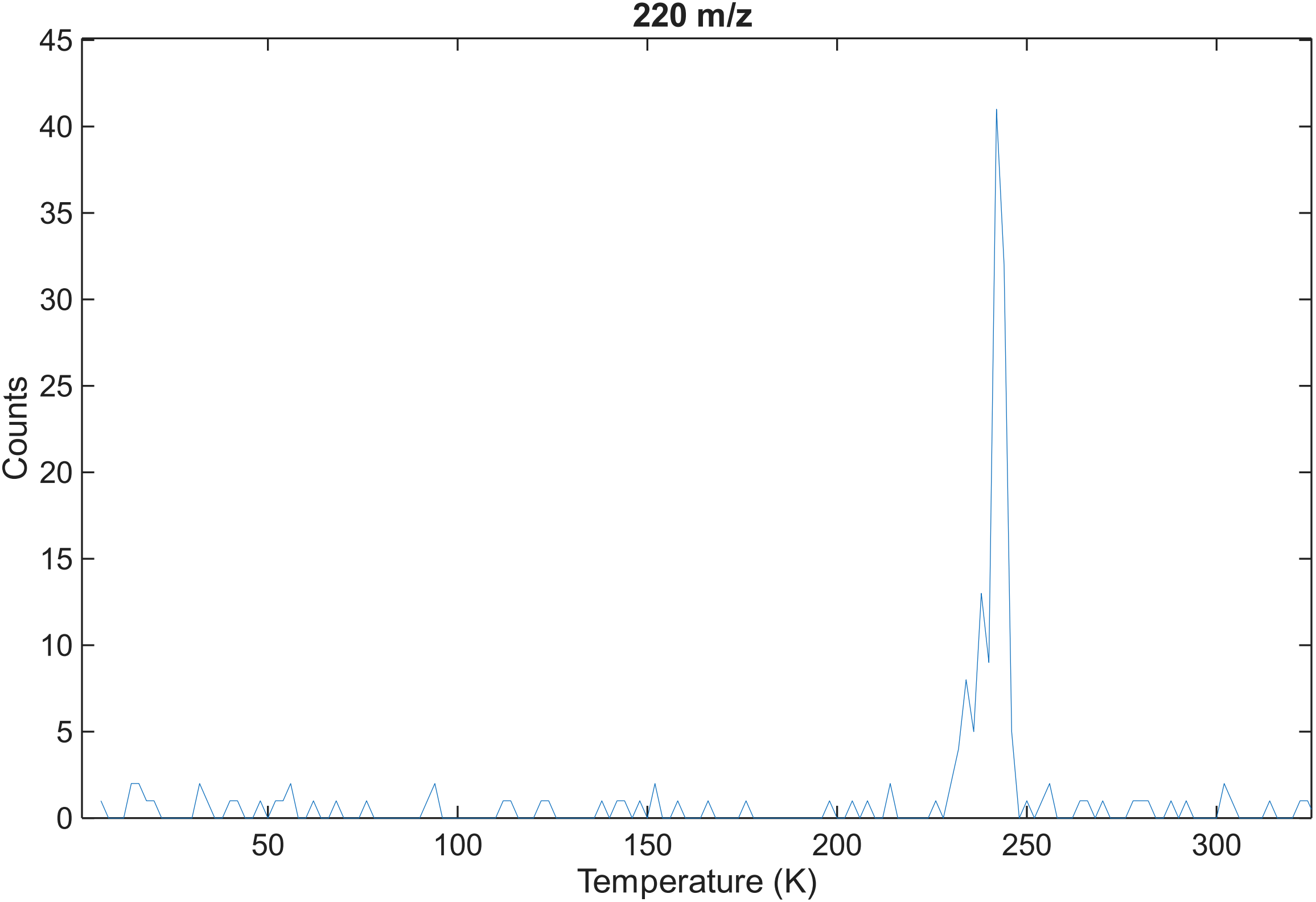
220 m/z
45
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25
20
15
10
5
0
Counts
50
100
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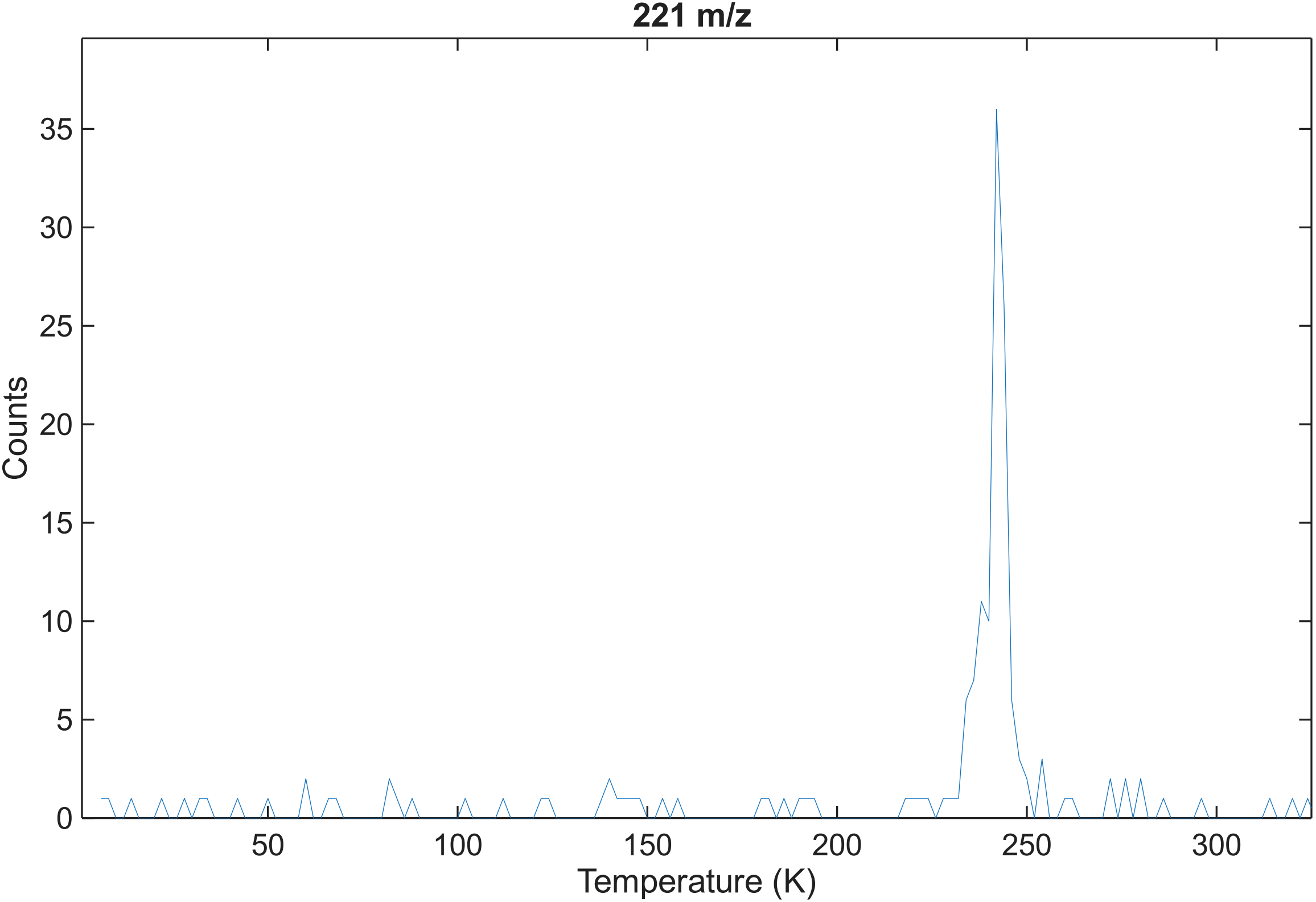
200
250
300
Temperature (K)


221 m/z
Counts
Temperature (K)
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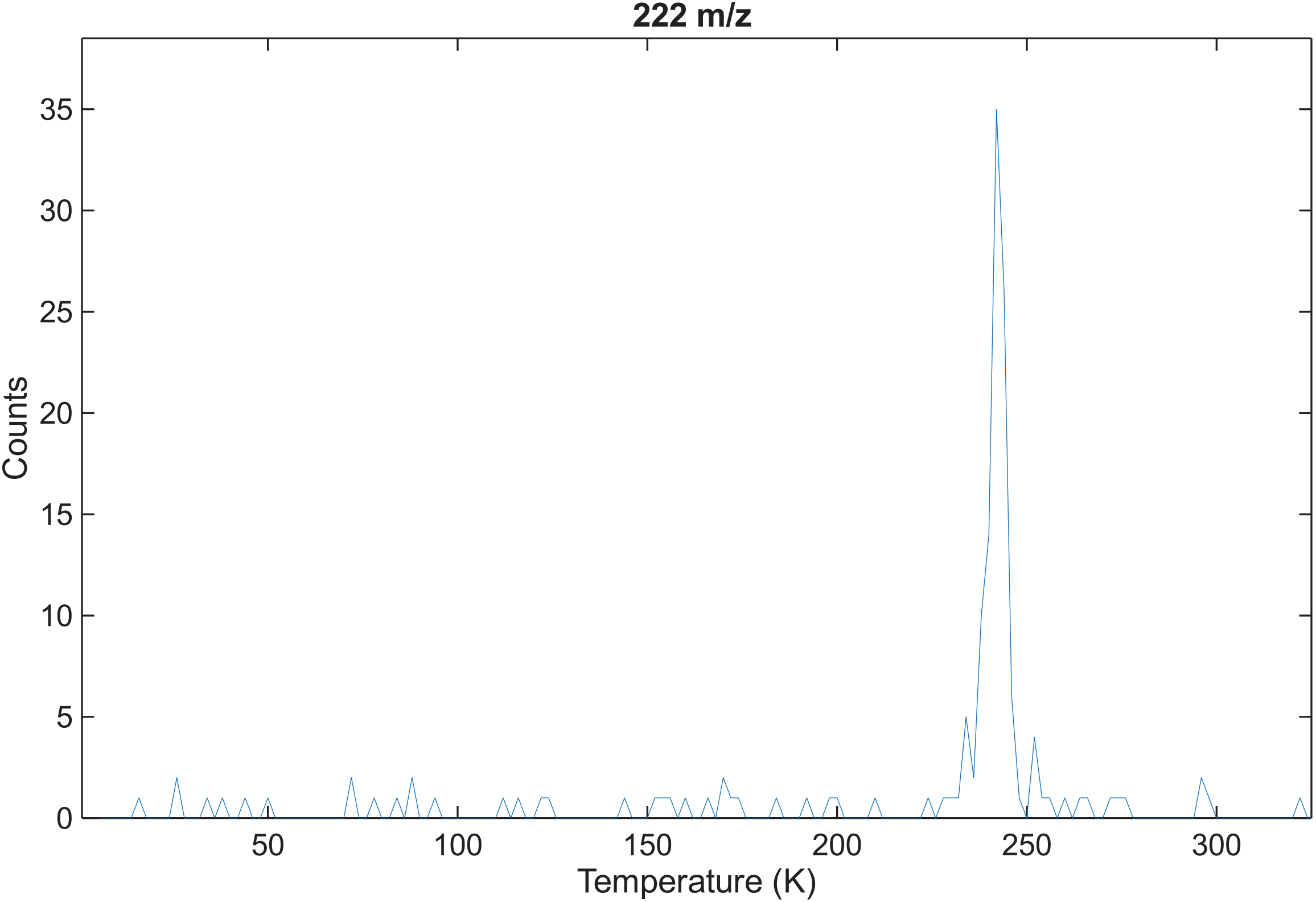
222 m/z
Counts
Temperature (K)
0
5
10
15
20
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30
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150
200
250
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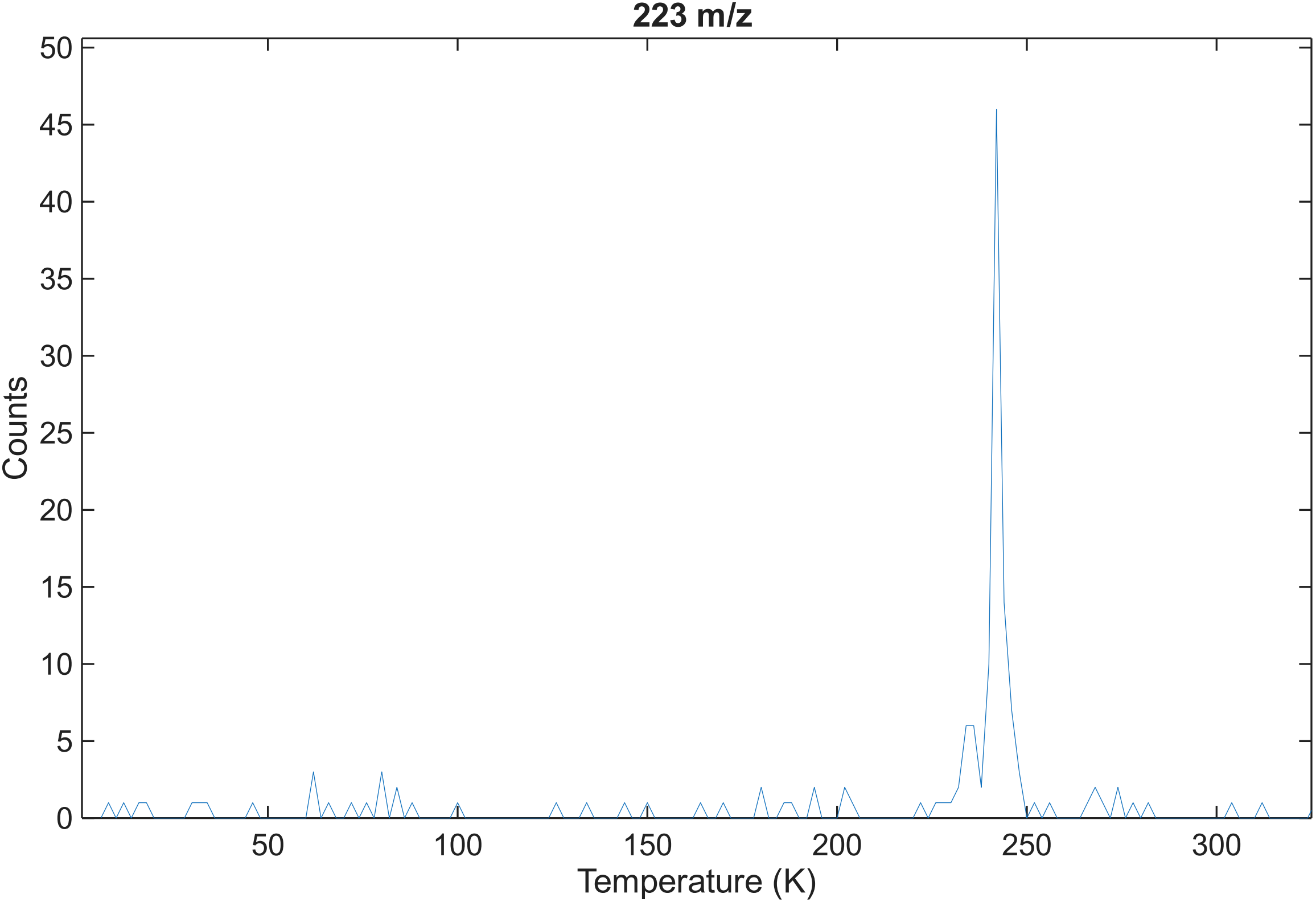
223 m/z
Counts
Temperature (K)
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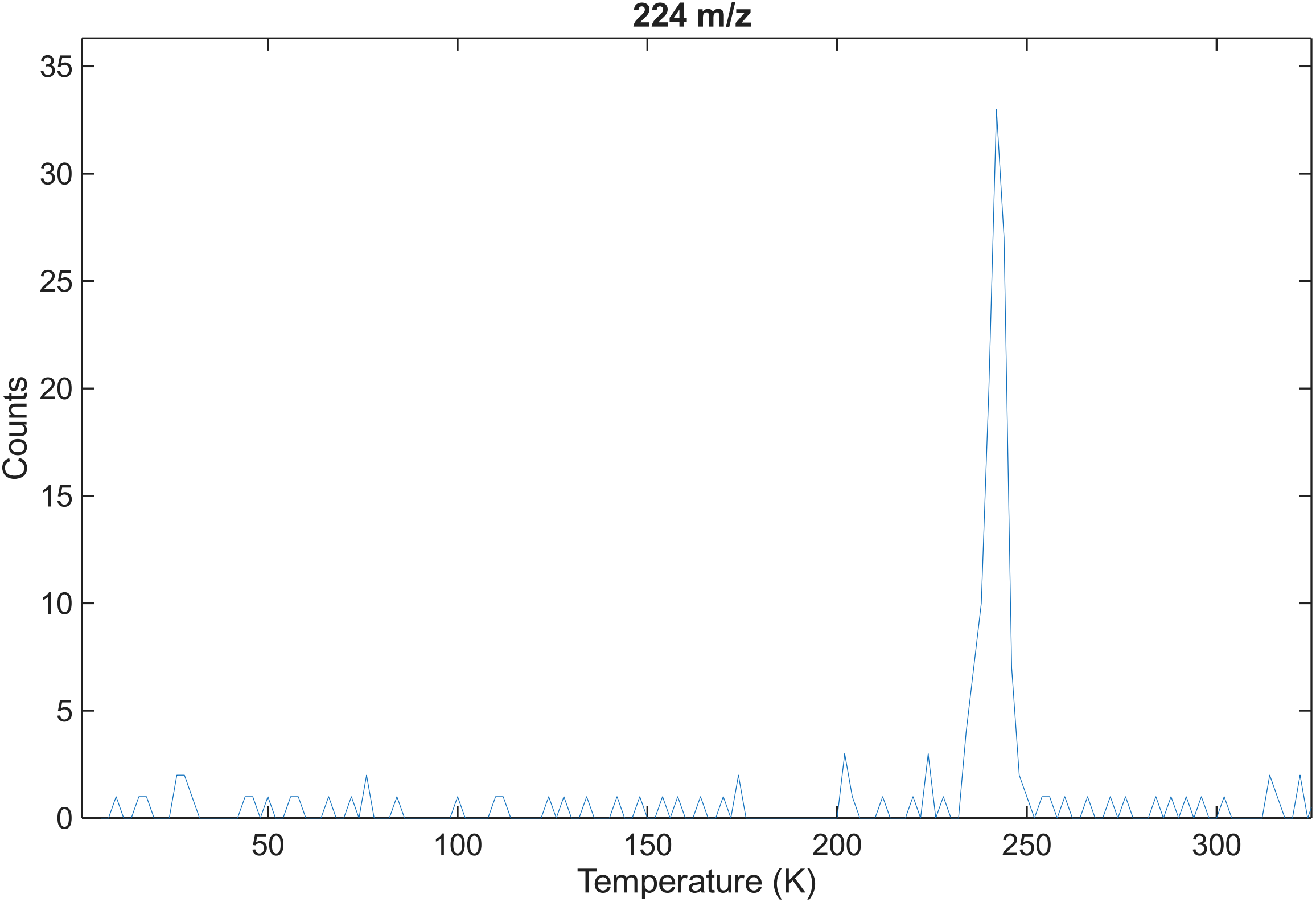
224 m/z
Counts
Temperature (K)
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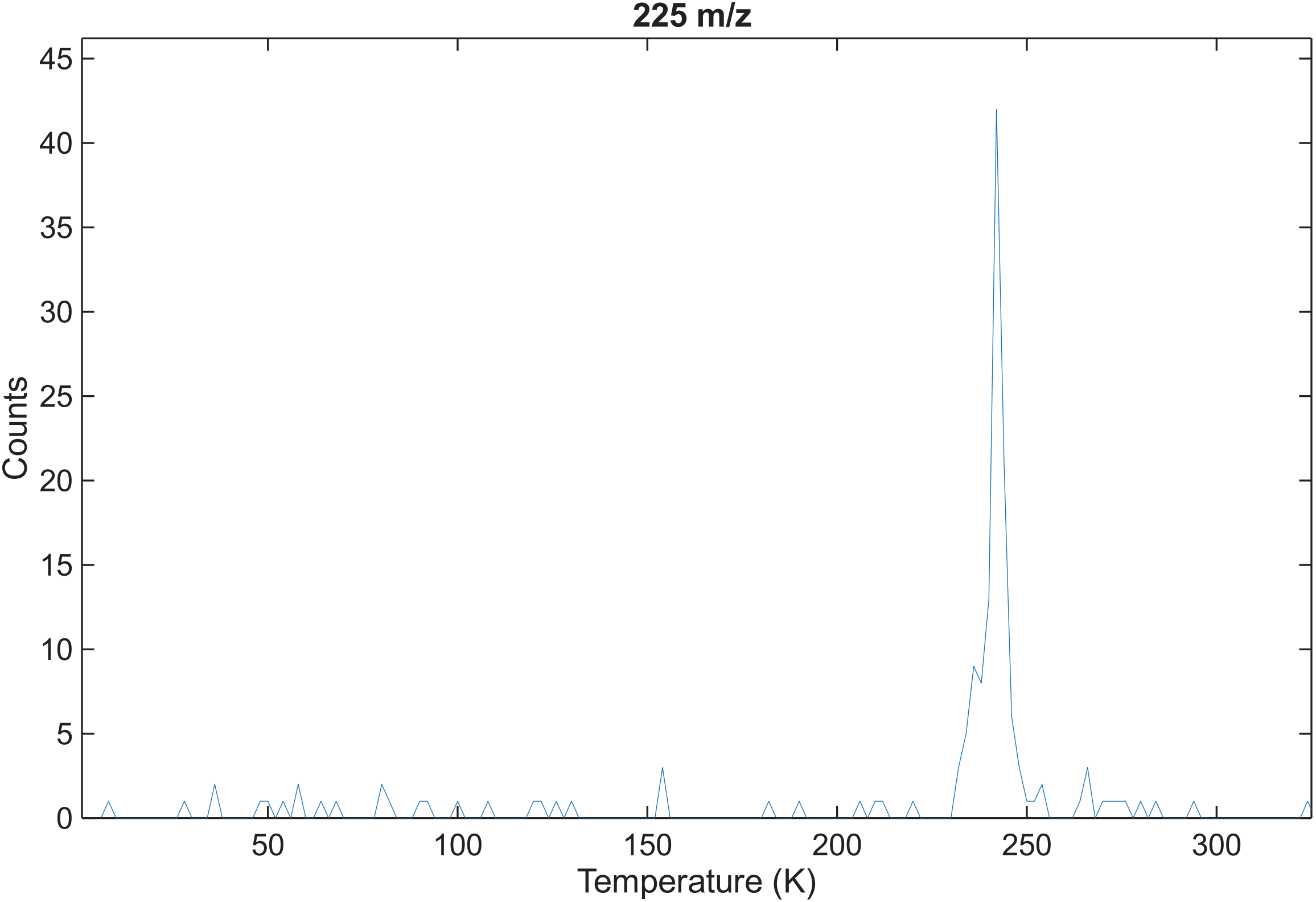
225 m/z
Counts
Temperature (K)
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20
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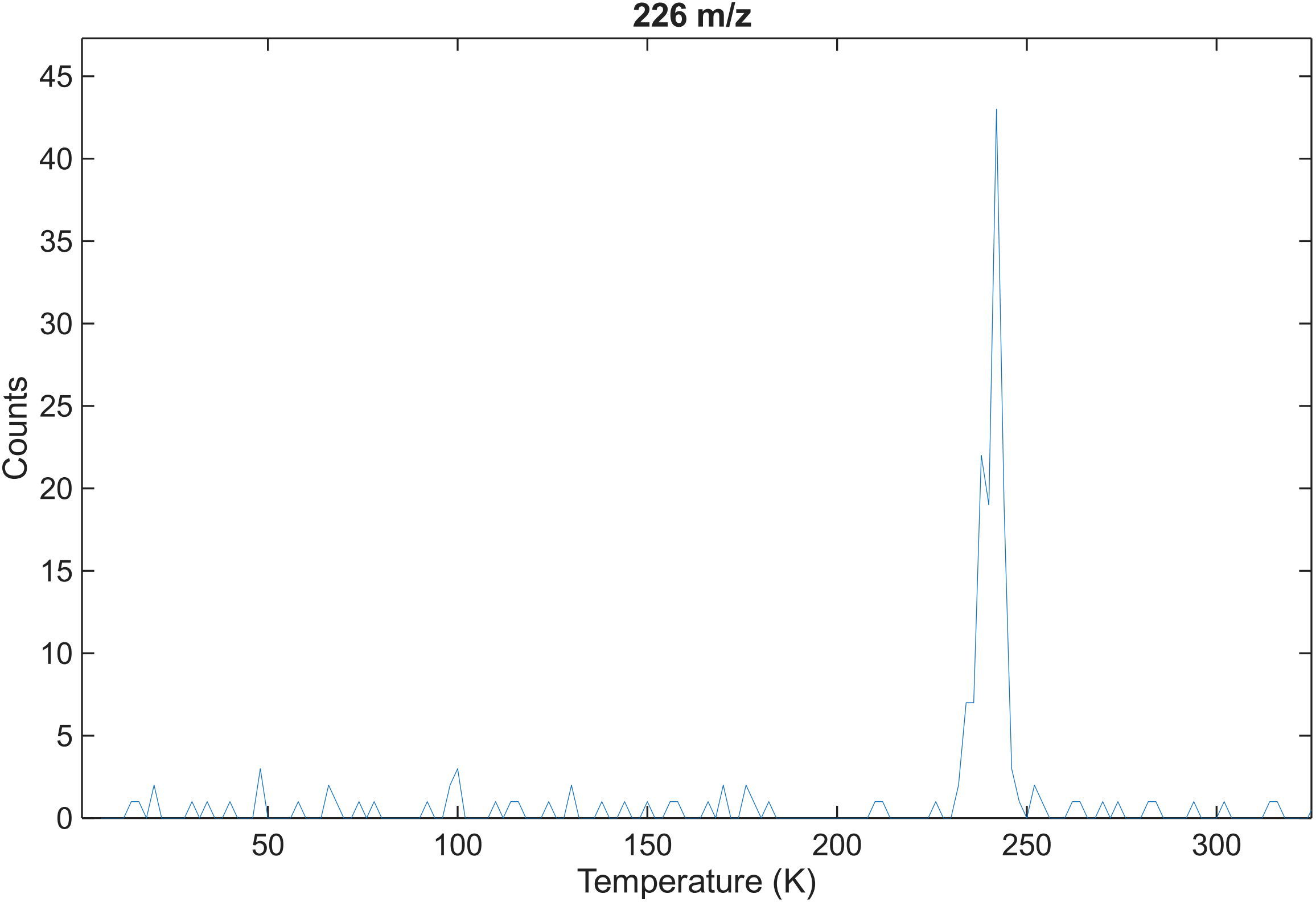
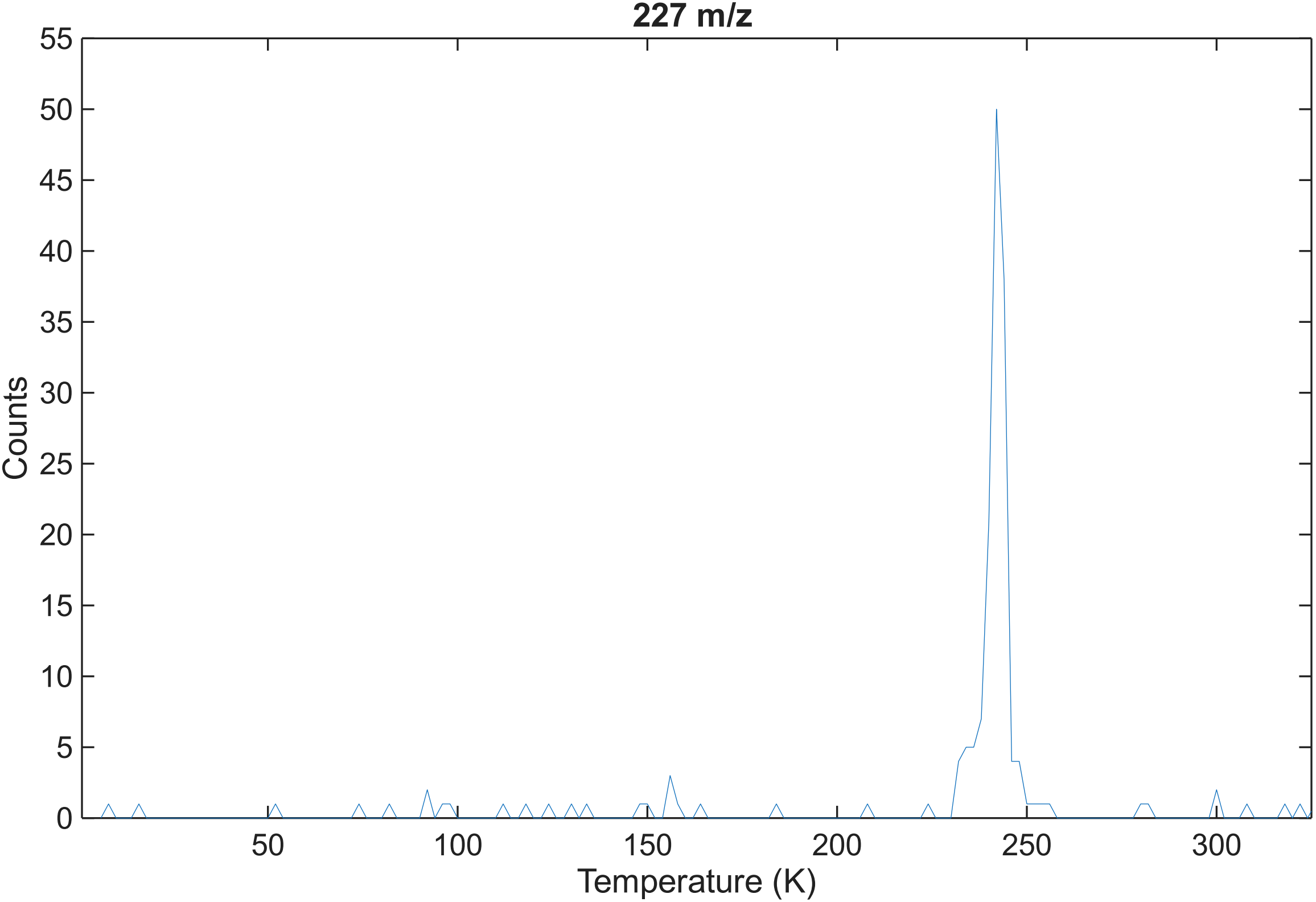

226 m/z
Counts
Temperature (K)
0
5
10
15
20
25
30
35
40
45
50
100
150
200
250
300


227 m/z
55
50
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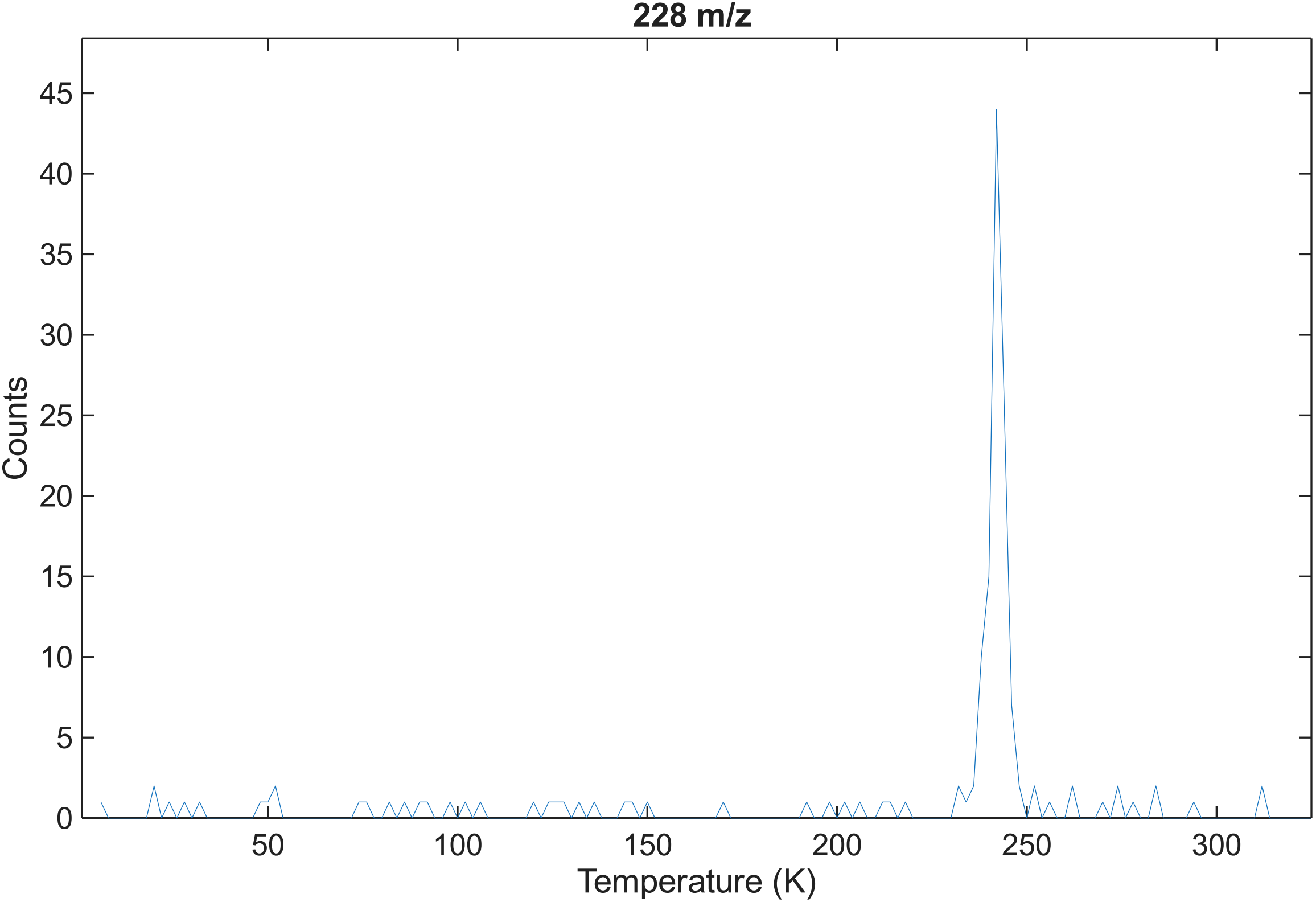
40
35
30
25
20
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)


228 m/z
Counts
Temperature (K)
0
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10
15
20
25
30
35
40
45
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100
150
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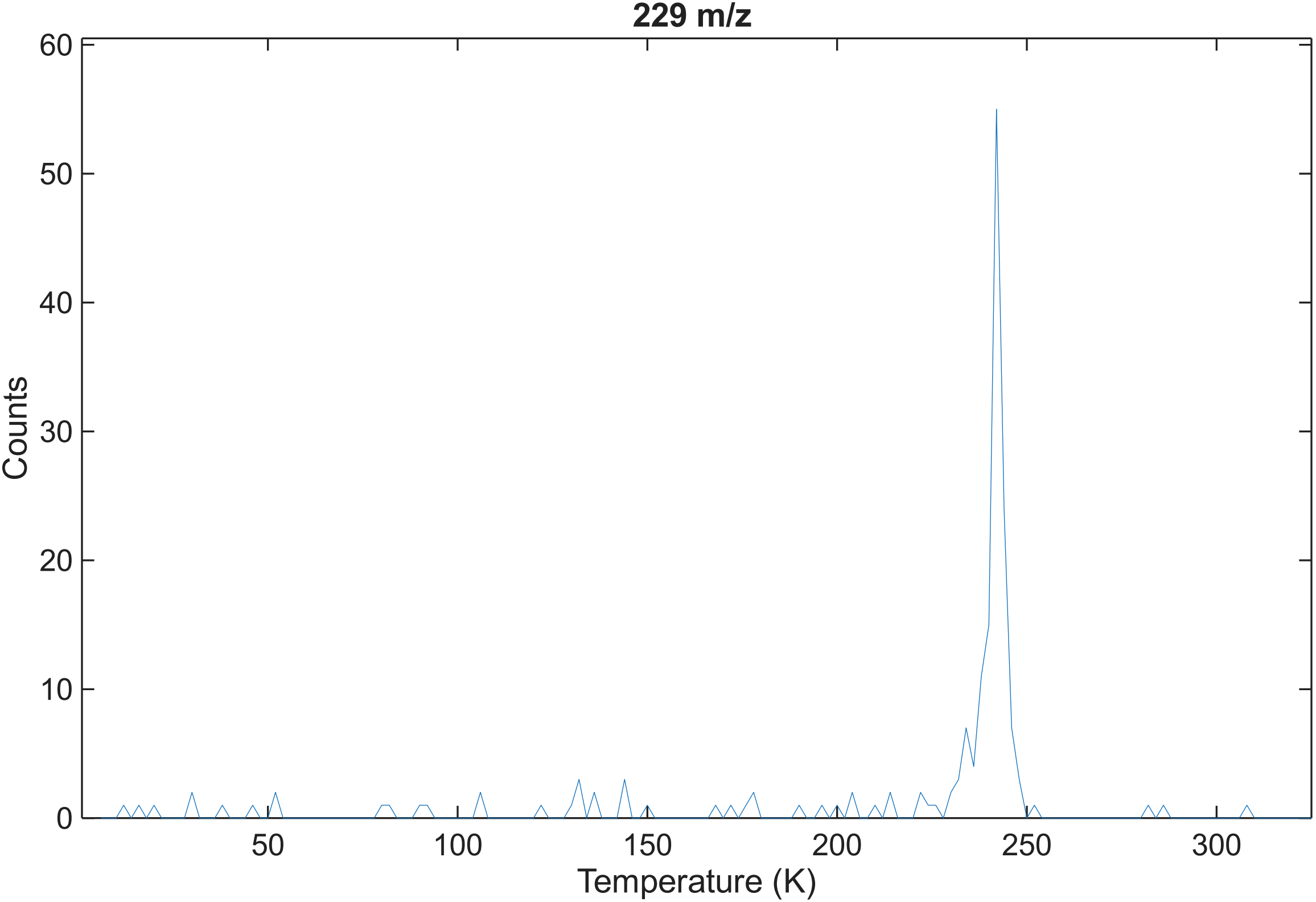
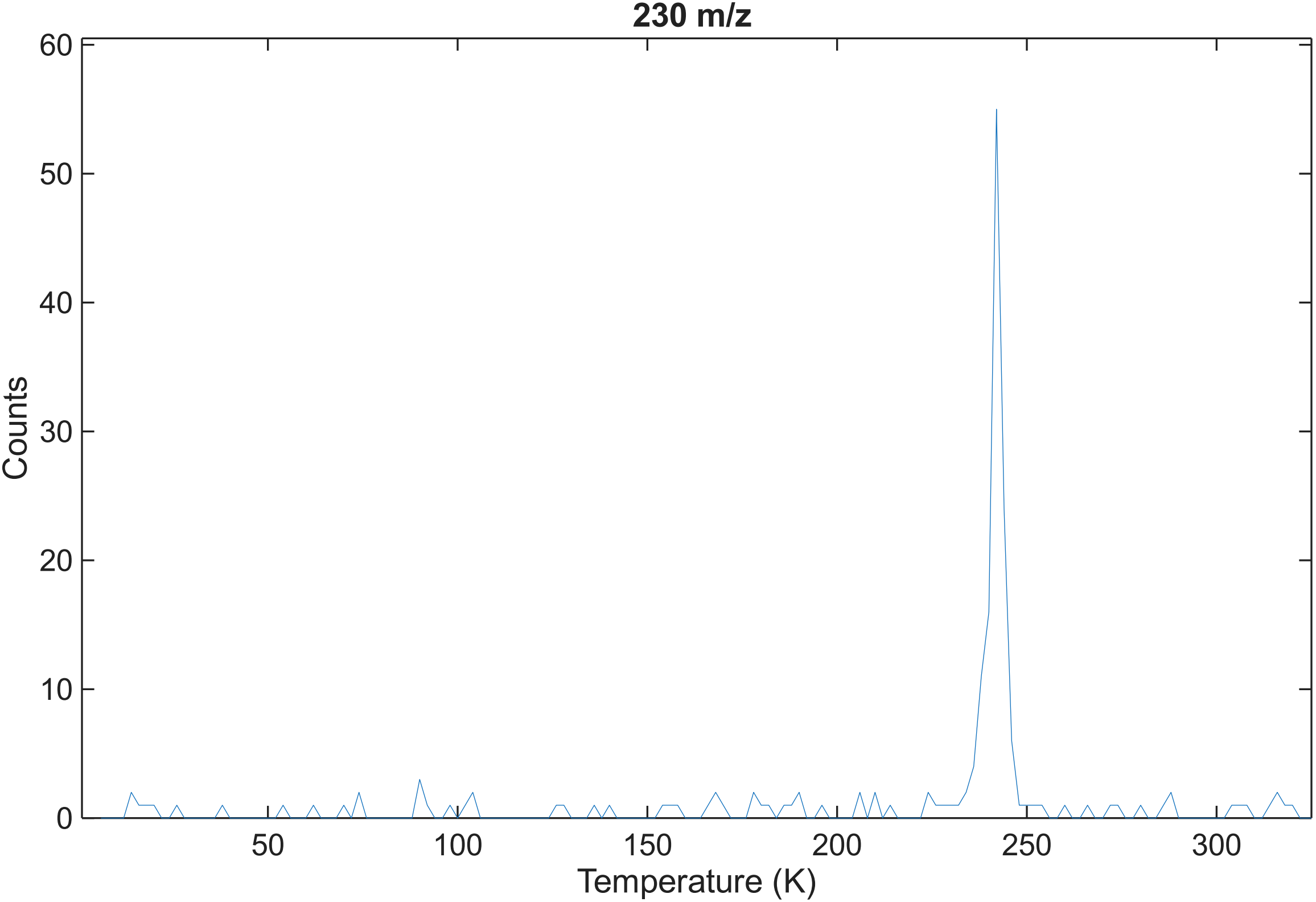
250
300


229 m/z
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)


230 m/z
Counts
Temperature (K)
0
10
20
30
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50
60
50
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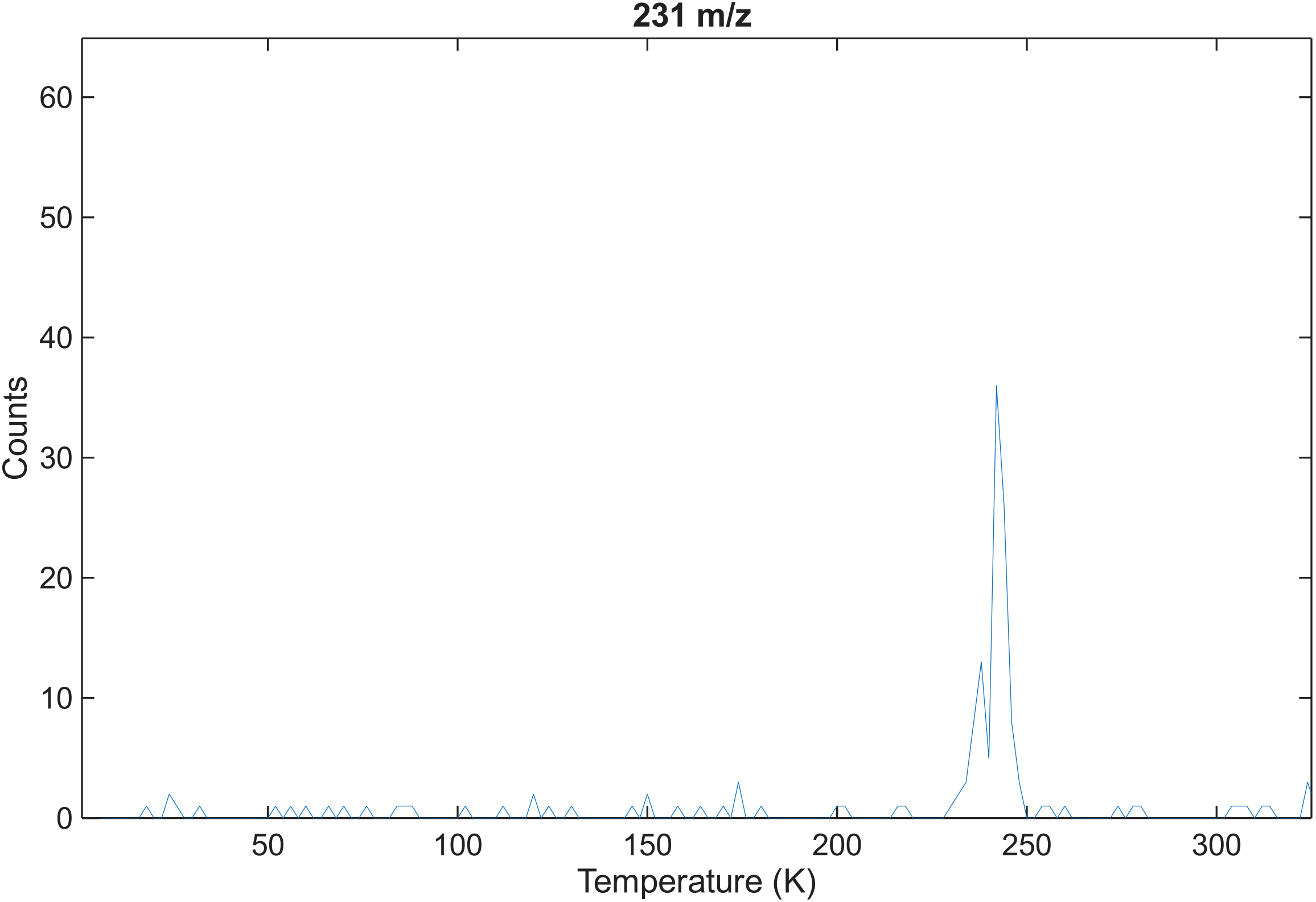
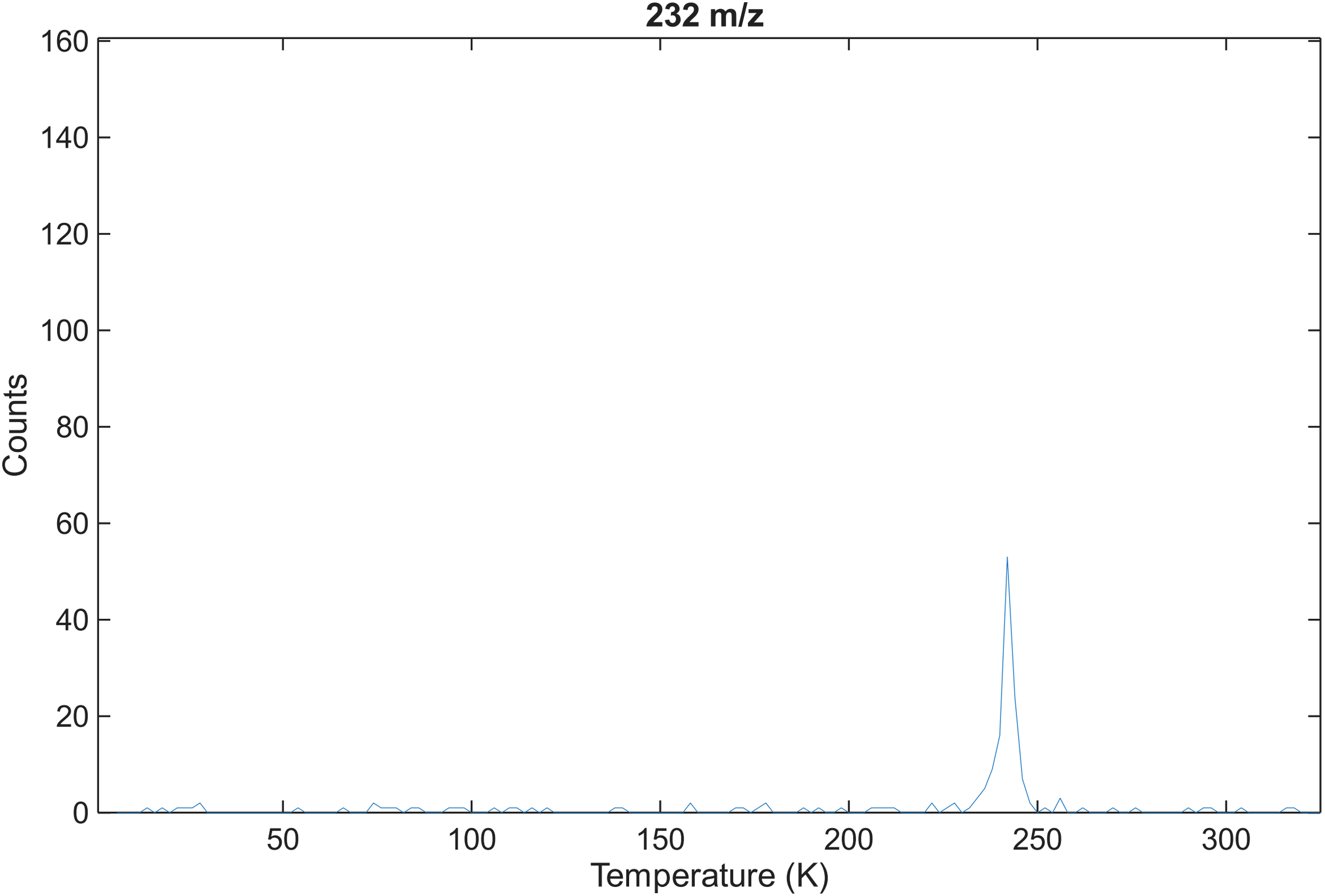
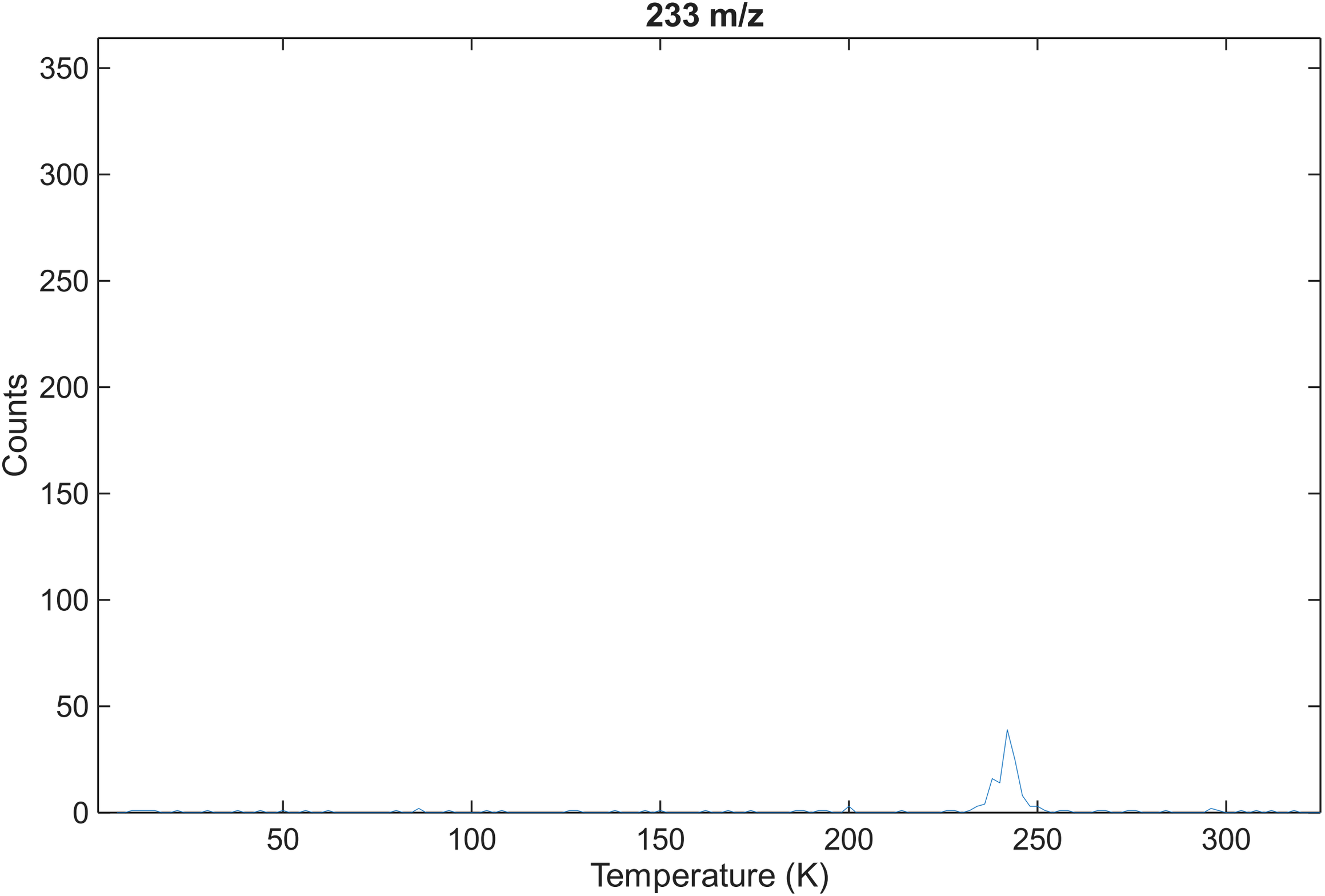
150
200
250
300


231 m/z
Counts
Temperature (K)
0
10
20
30
40
50
60
50
100
150
200
250
300


232 m/z
160
140
120
100
80
60
40
20
0
Counts
50
100
150
200
250
300
Temperature (K)


233 m/z
Counts
Temperature (K)
0
50
100
150
200
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300
350
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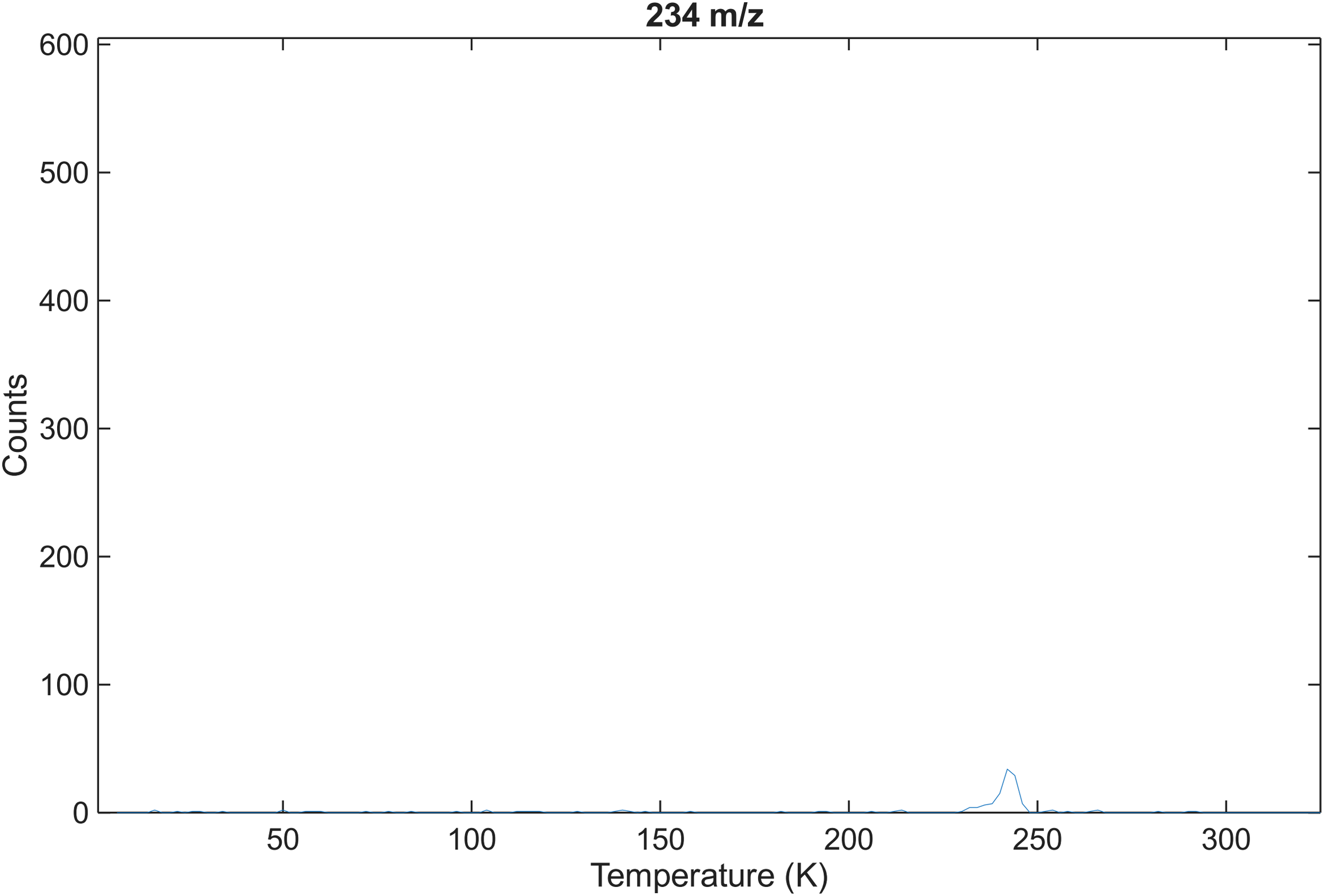
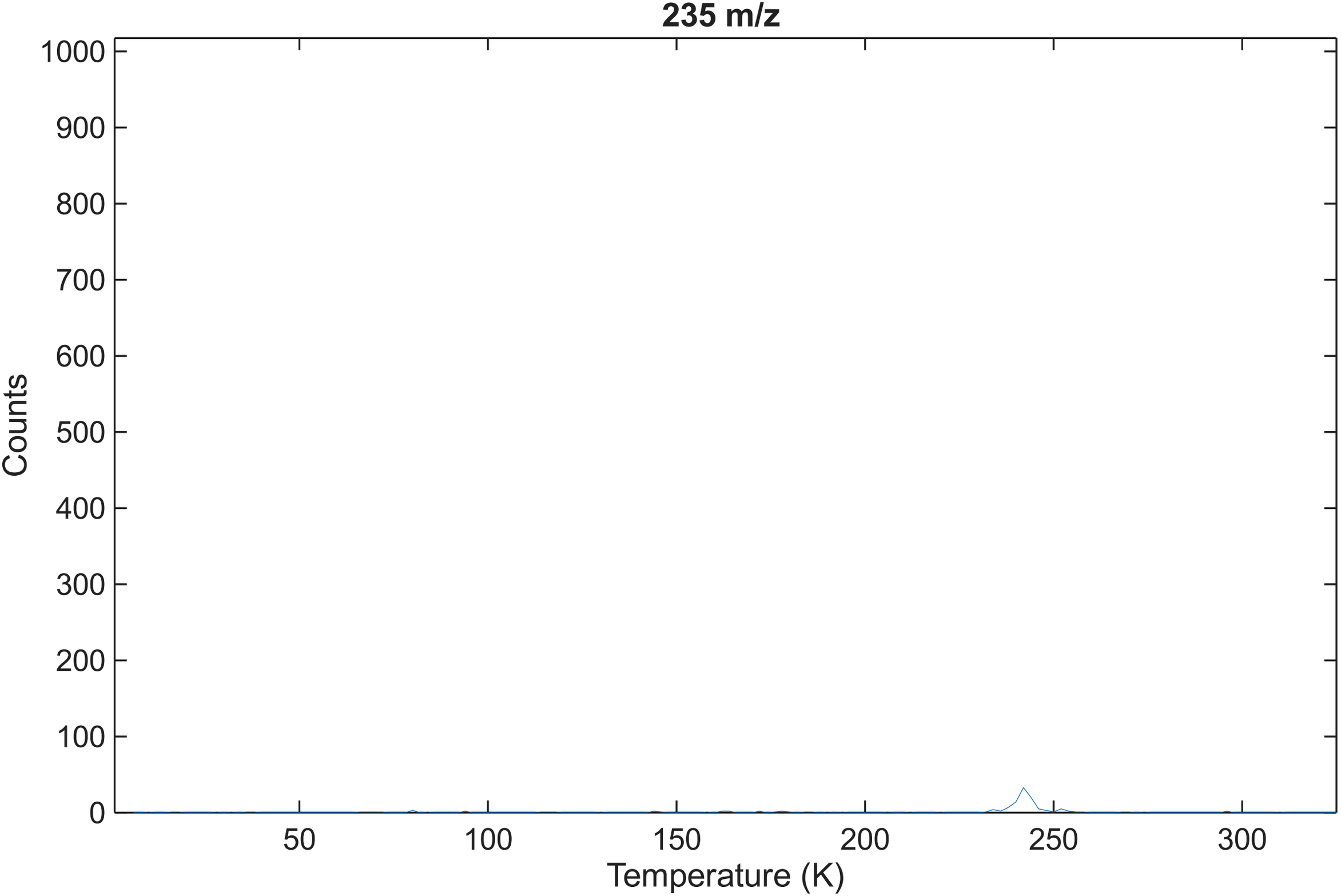
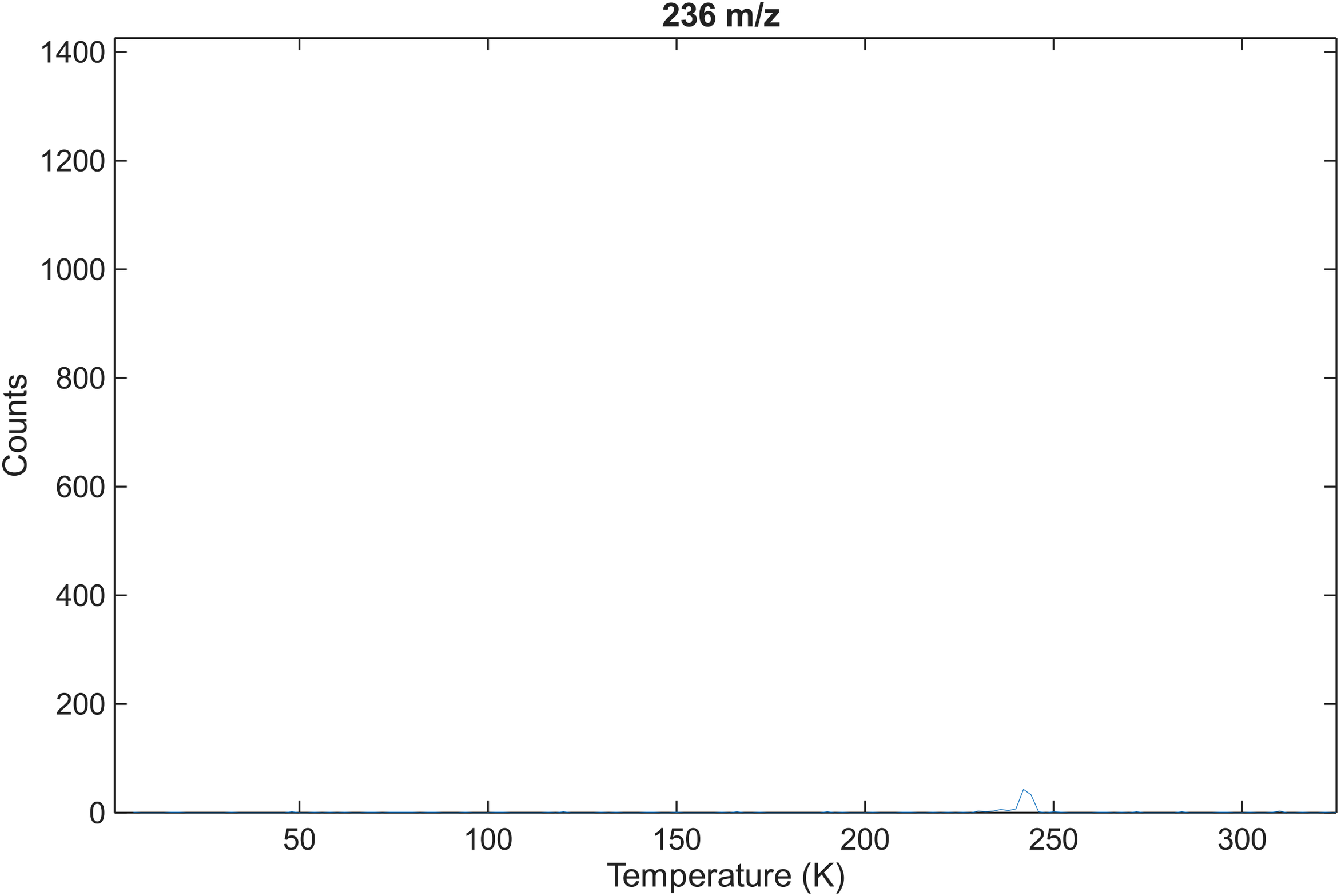
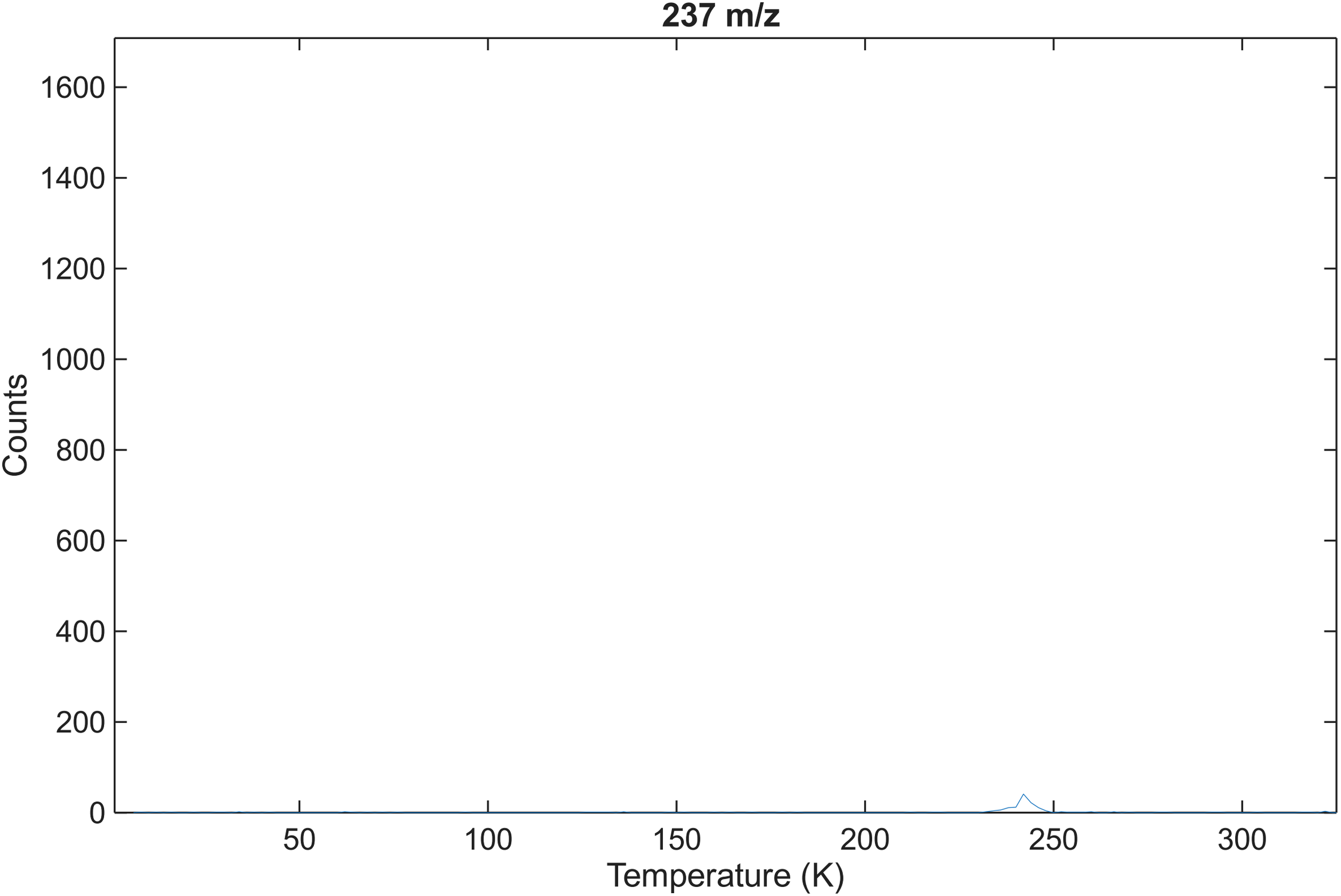
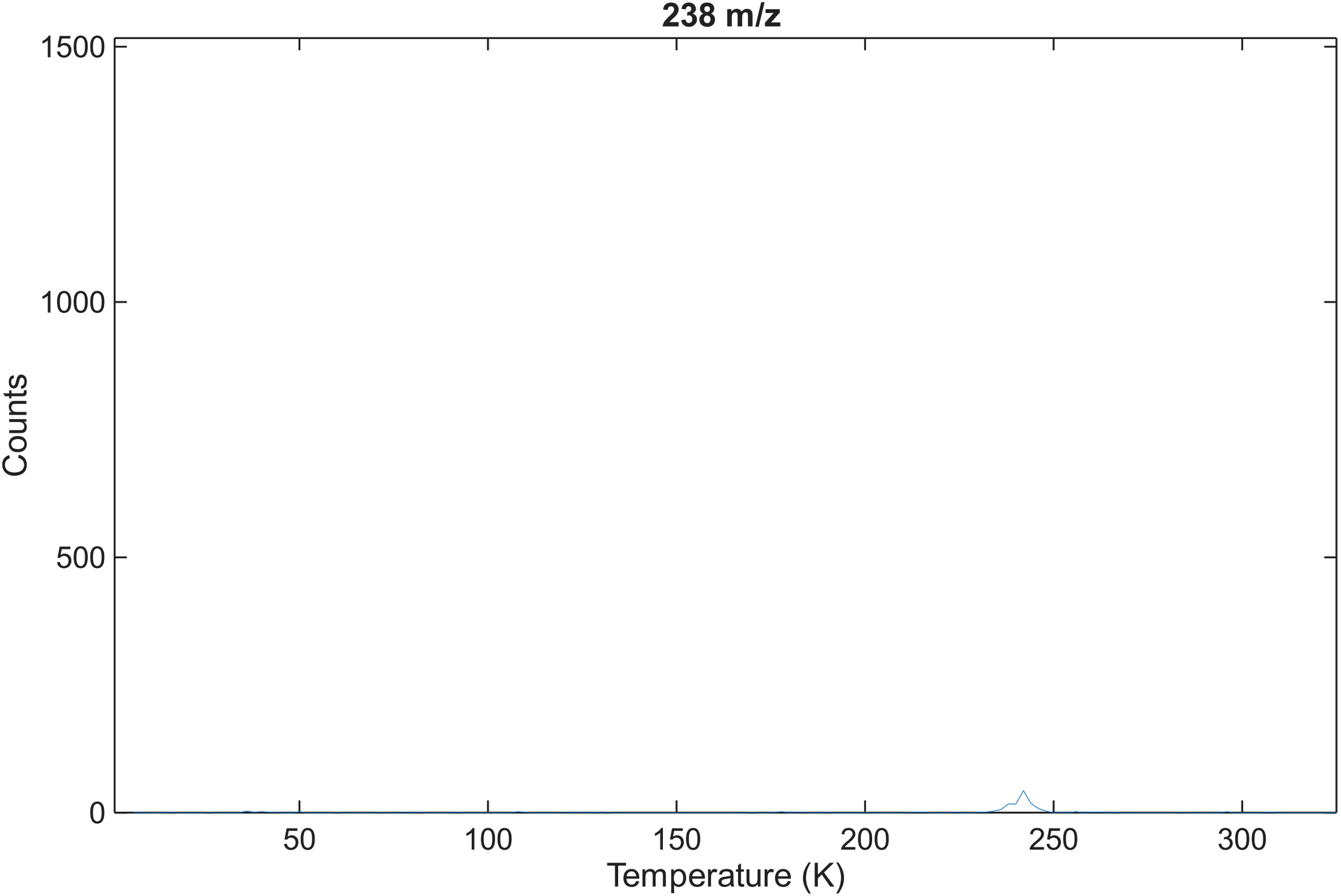
150
200
250
300

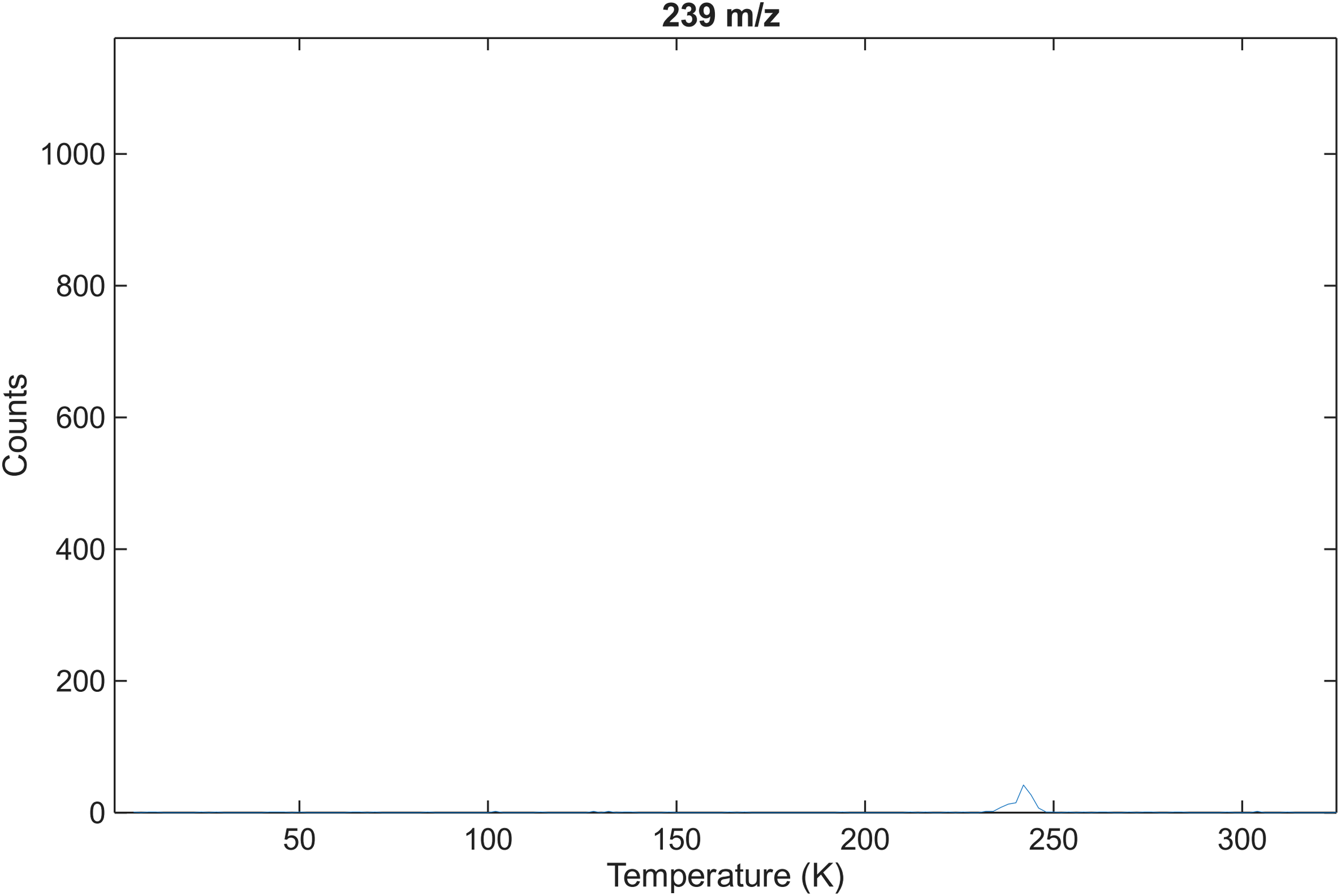

234 m/z
600
500
400
300
200
100
0
Counts
50
100
150
200
250
300
Temperature (K)

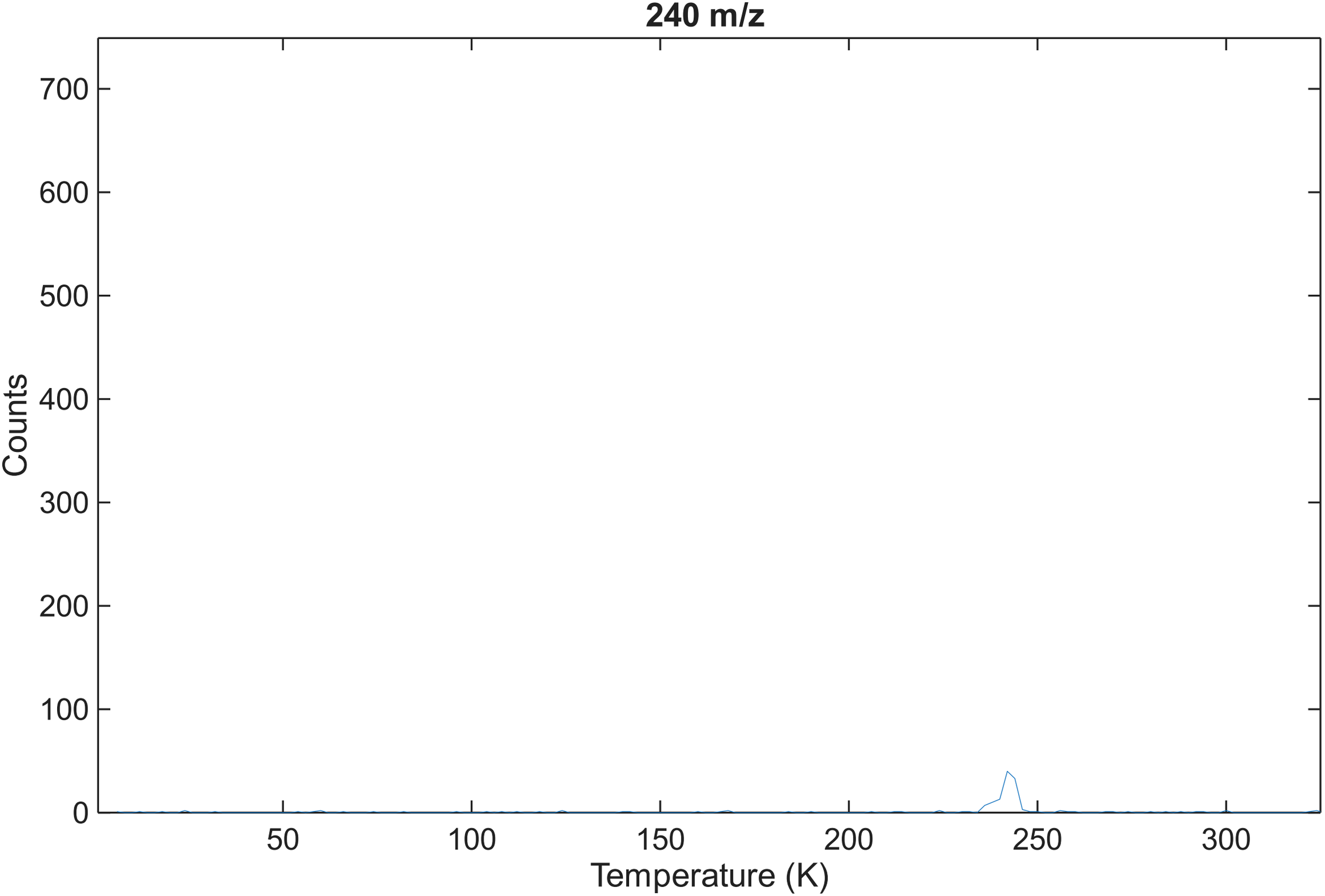

235 m/z
1000
900
800
700
600
500
400
300
200
100
0
Counts
50
100
150
200
250
300
Temperature (K)

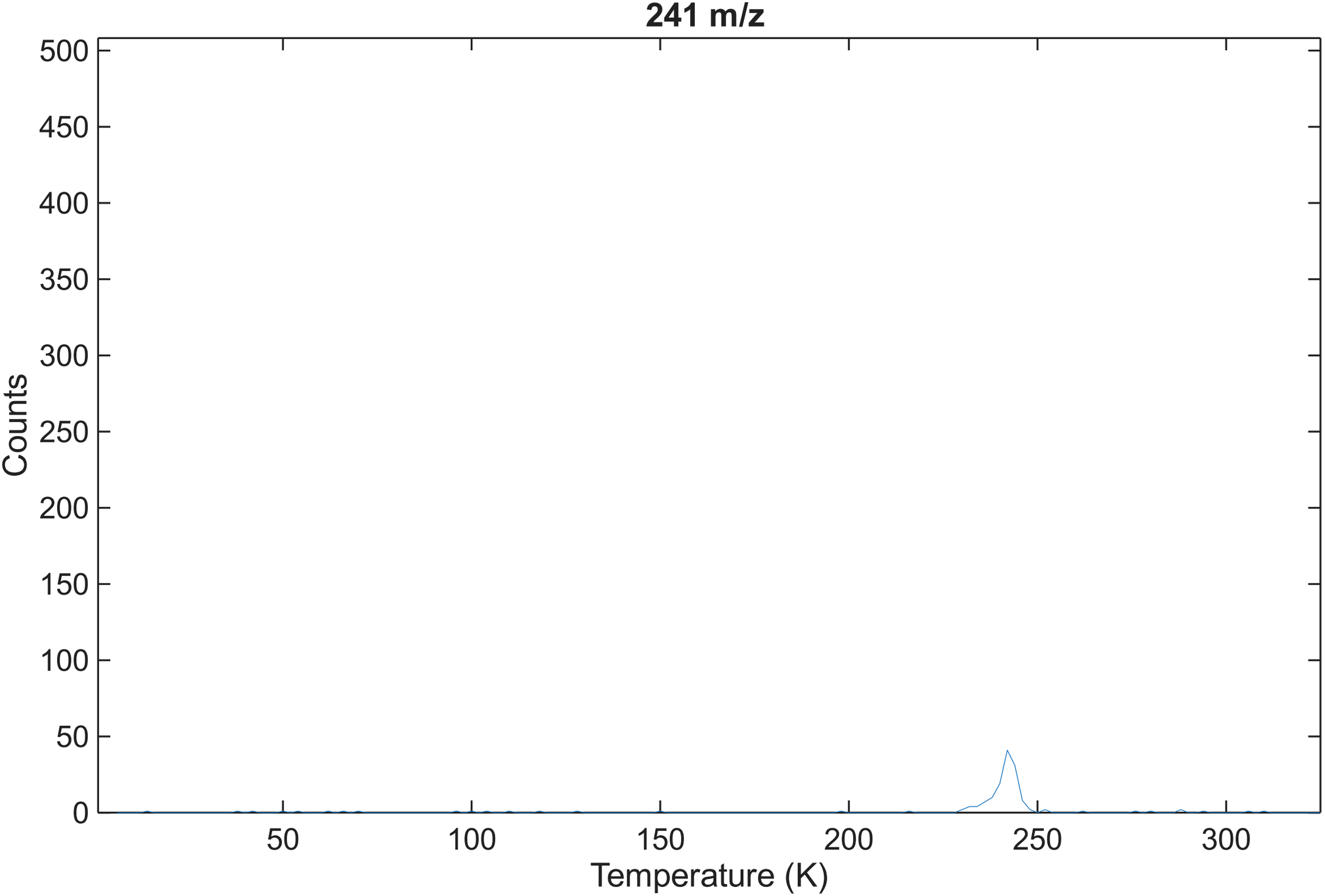

236 m/z
1400
1200
1000
800
600
400
200
0
Counts
50
100
150
200
250
300
Temperature (K)


237 m/z
1600
1400
1200
1000
800
600
400
200
0
Counts
50
100
150
200
250
300
Temperature (K)


238 m/z
1500
1000
500
0
Counts
50
100
150
200
250
300
Temperature (K)


239 m/z
Counts
0
200
400
600
800
1000
50
100
150
200
250
300
Temperature (K)


240 m/z
700
600
500
400
300
200
100
0
Counts
50
100
150
200
250
300
Temperature (K)


241 m/z
Counts
Temperature (K)
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200
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300
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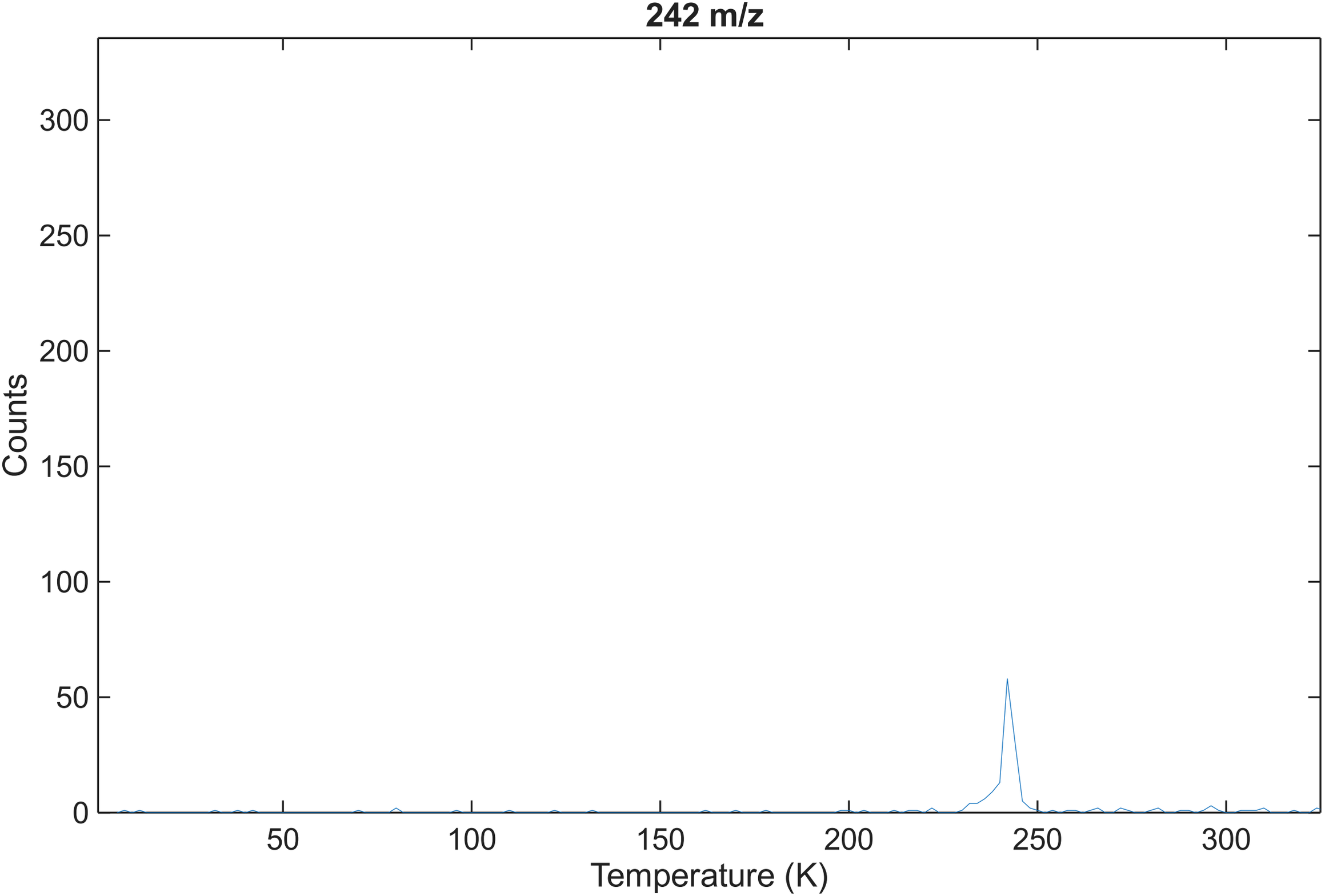
250
300


242 m/z
Counts
Temperature (K)
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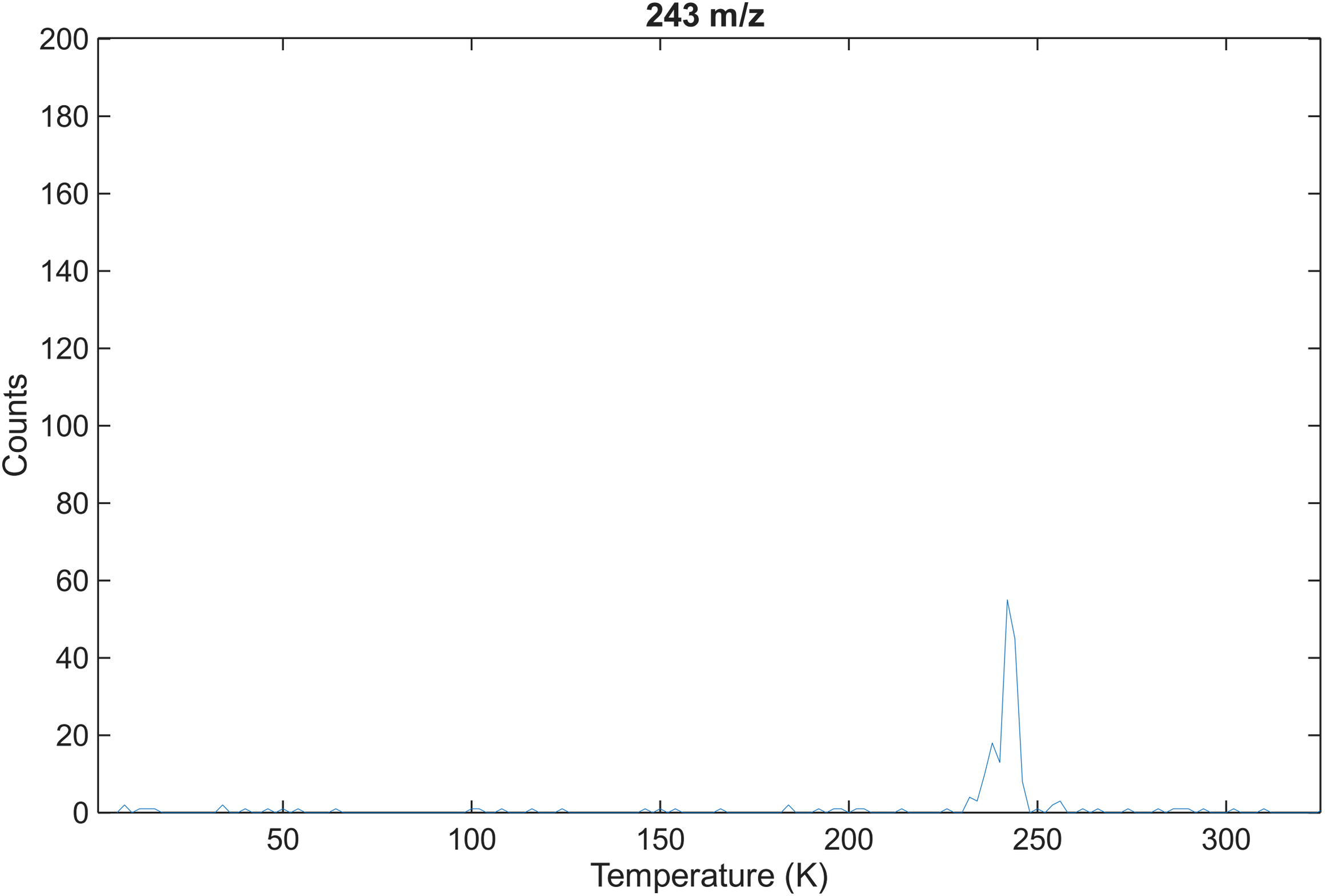
243 m/z
Counts
Temperature (K)
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120
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150
200
250
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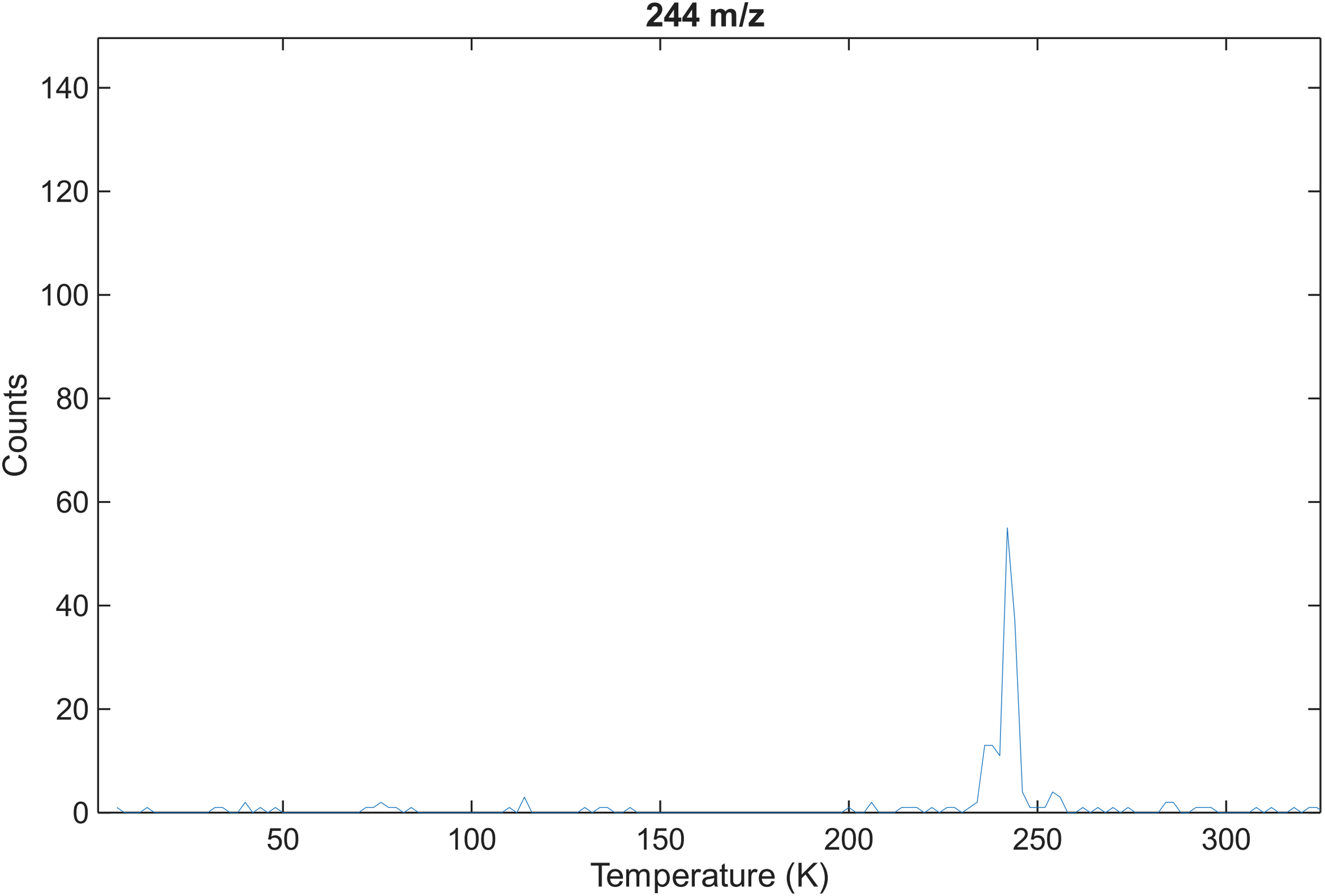
244 m/z
Counts
Temperature (K)
0
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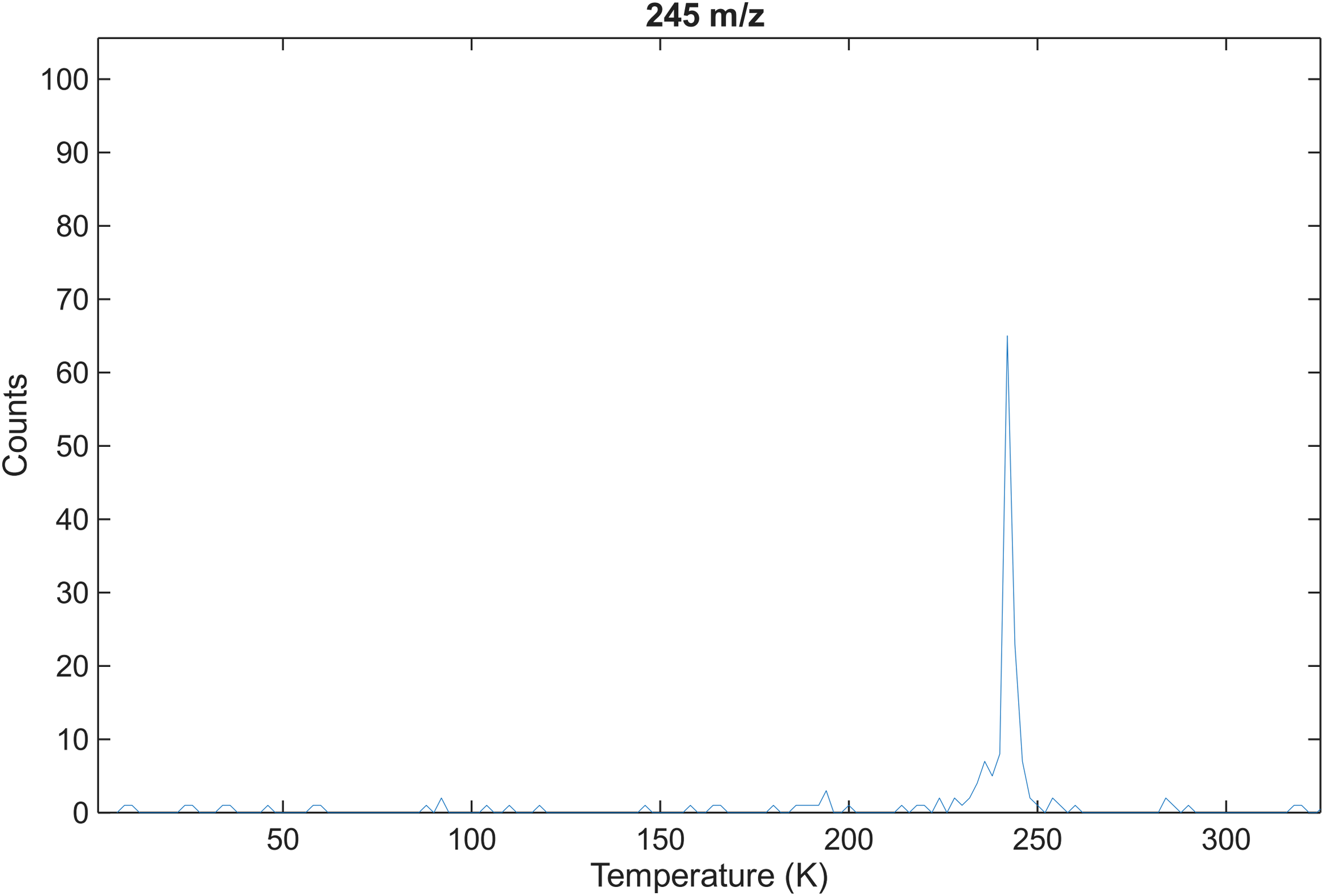
245 m/z
Counts
Temperature (K)
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90
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200
250
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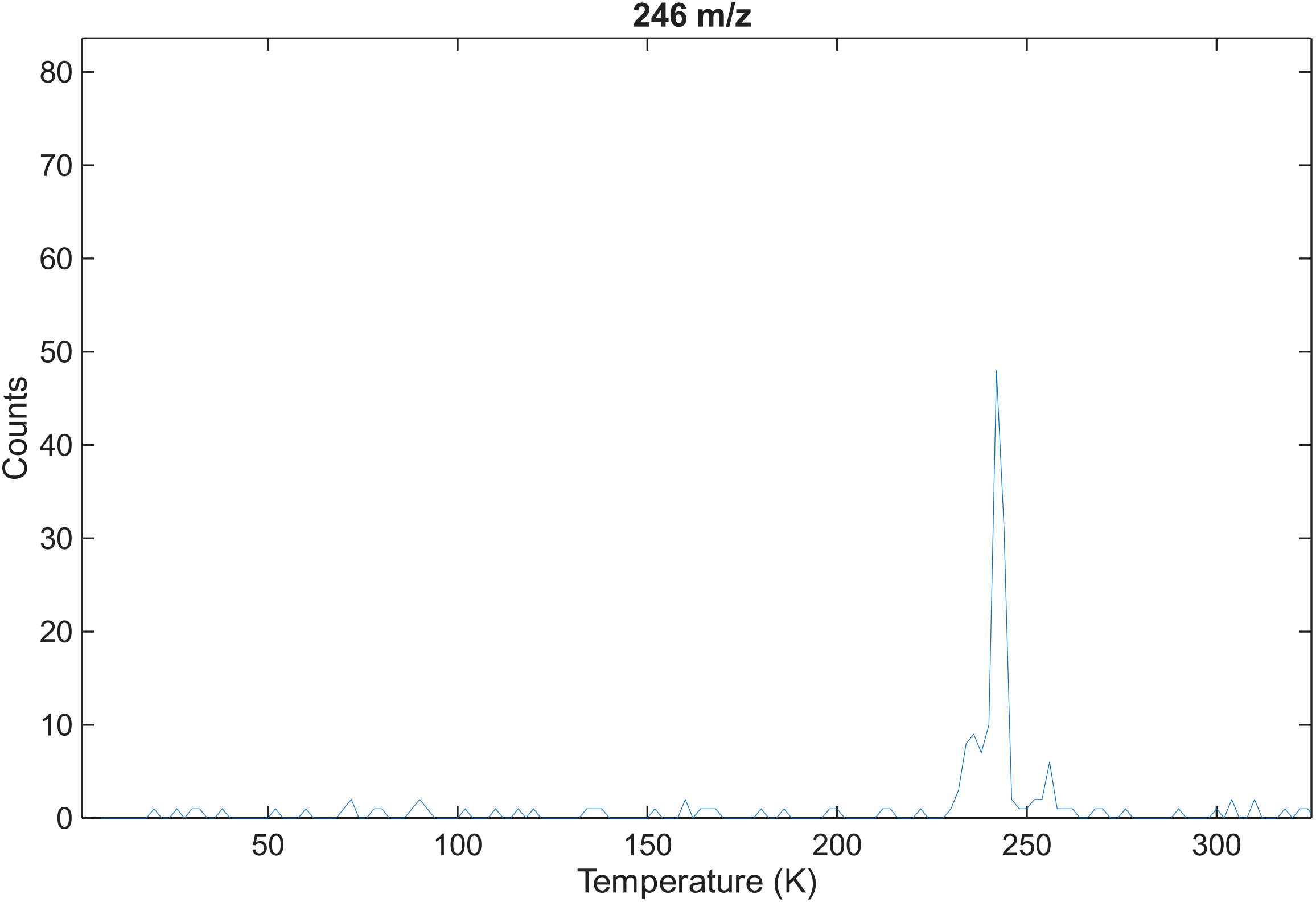
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Counts
Temperature (K)
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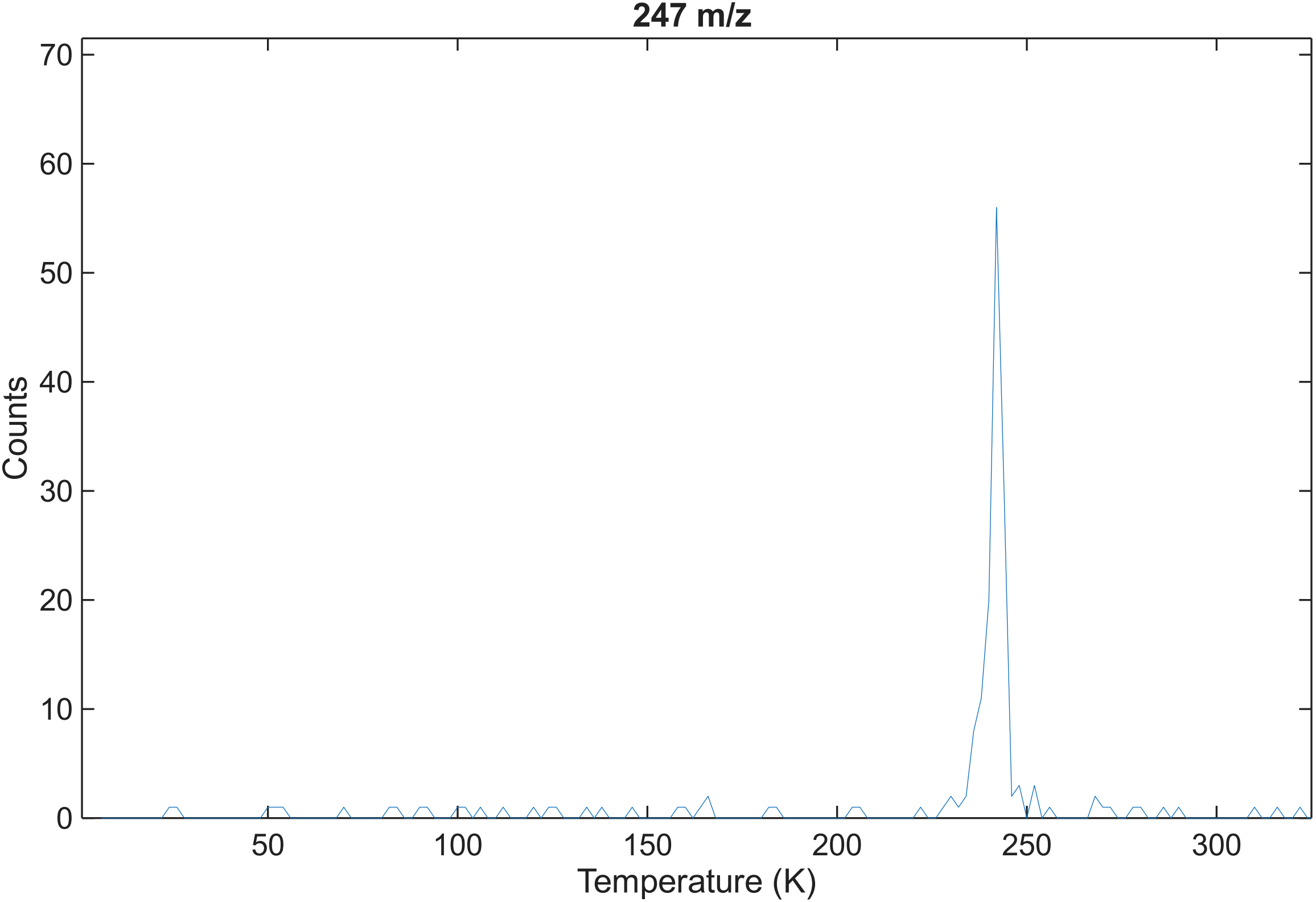
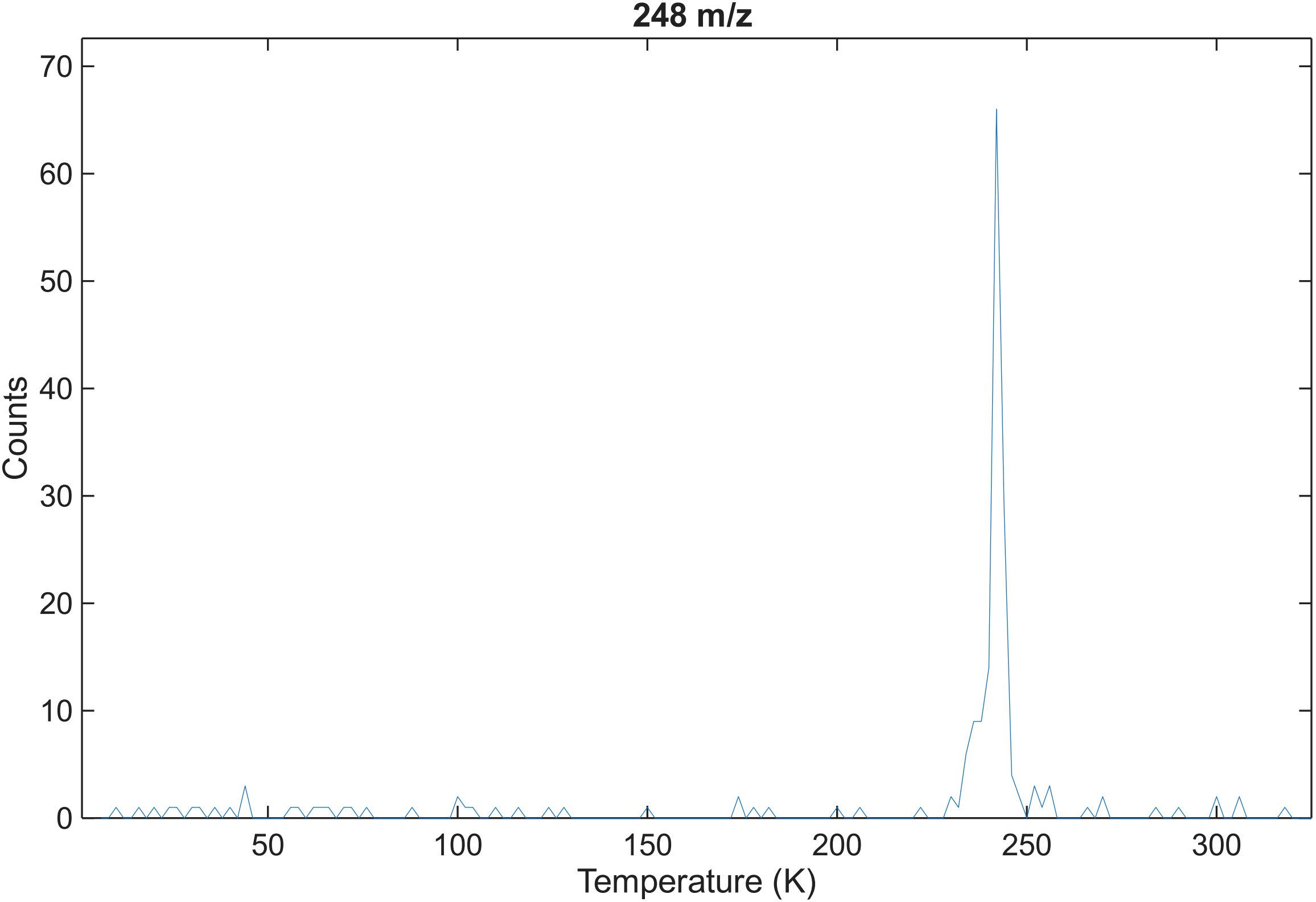
250
300


247 m/z
70
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)


248 m/z
Counts
Temperature (K)
0
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60
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250
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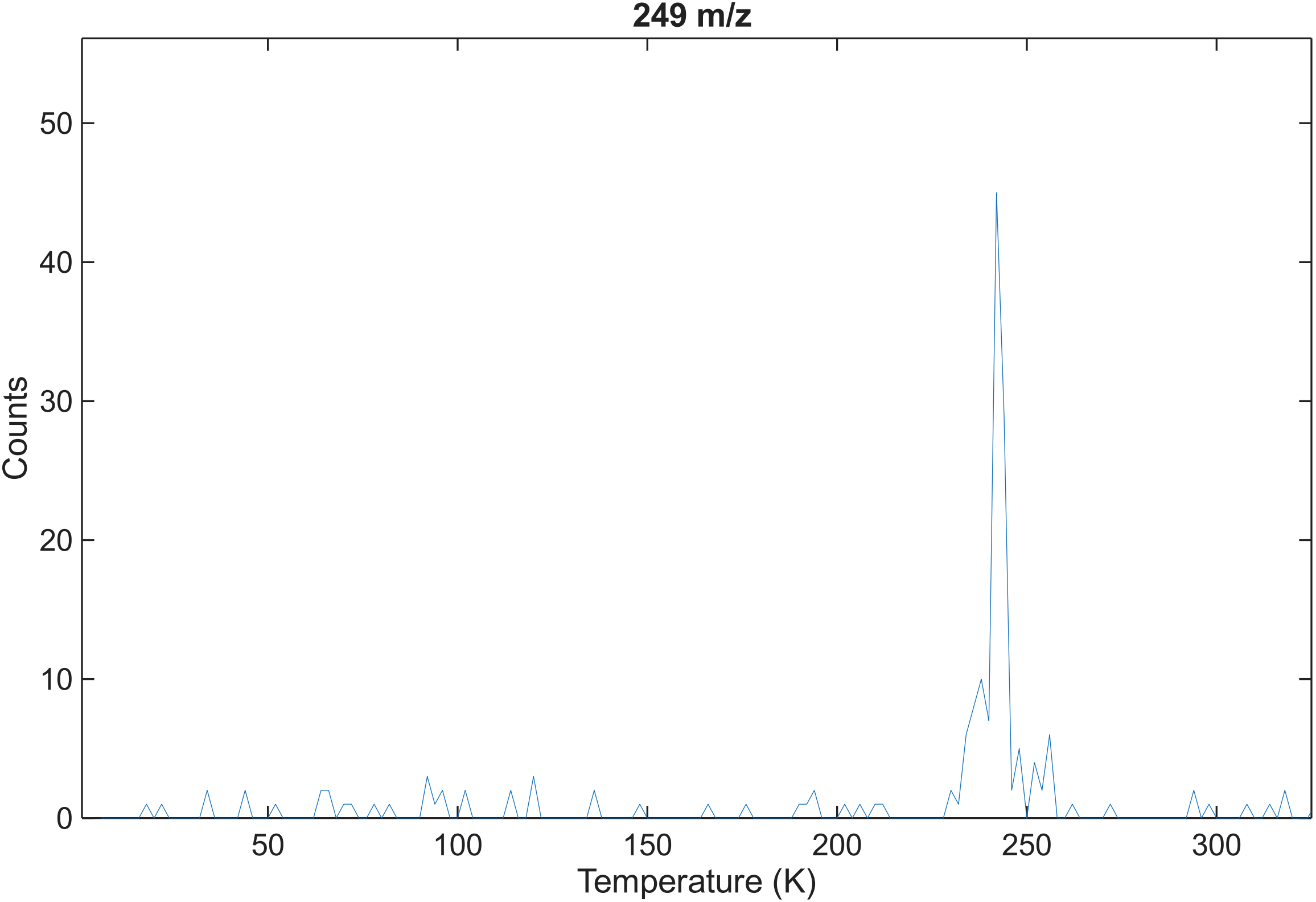
249 m/z
Counts
Temperature (K)
0
10
20
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40
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50
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200
250
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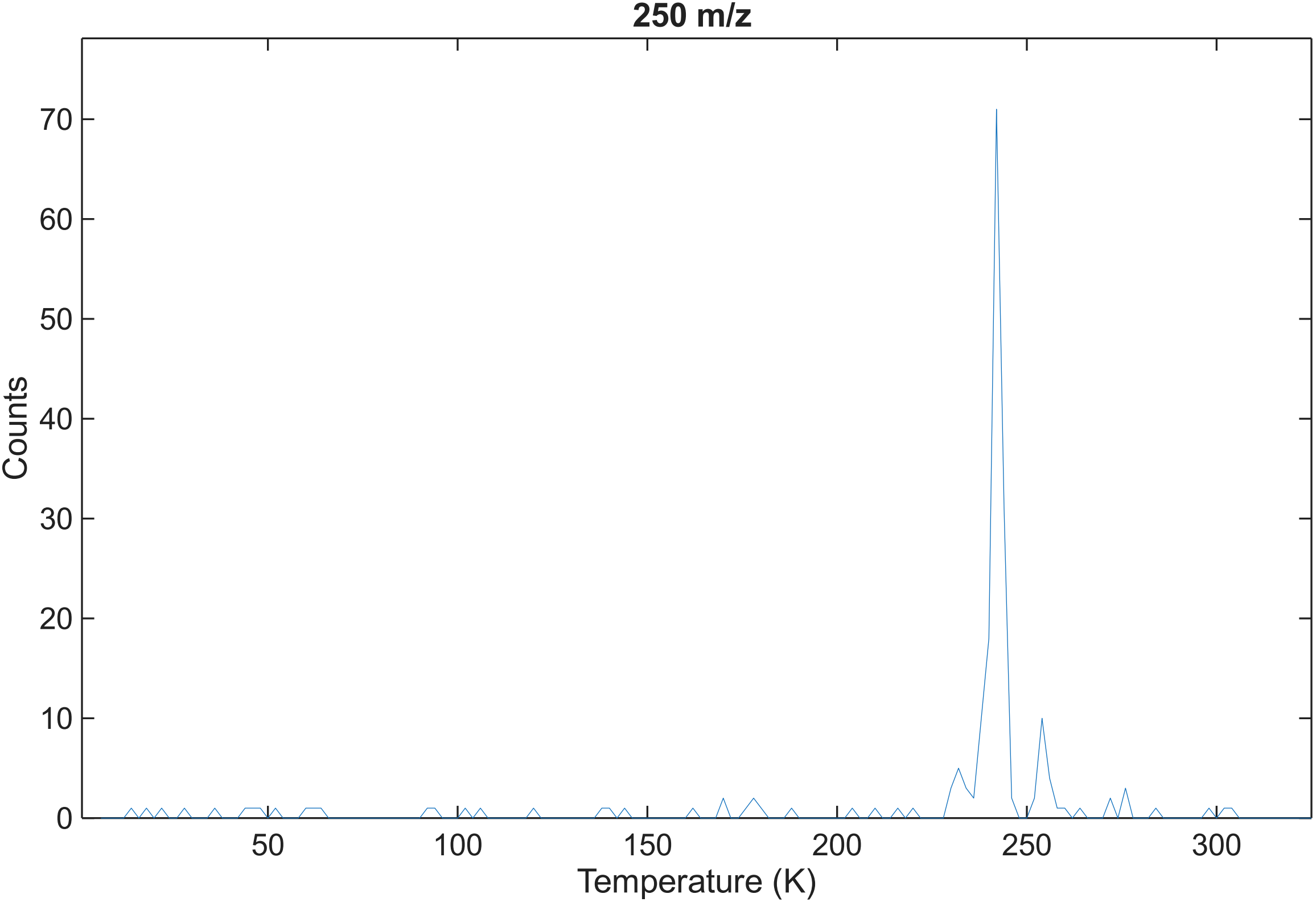
250 m/z
Counts
Temperature (K)
0
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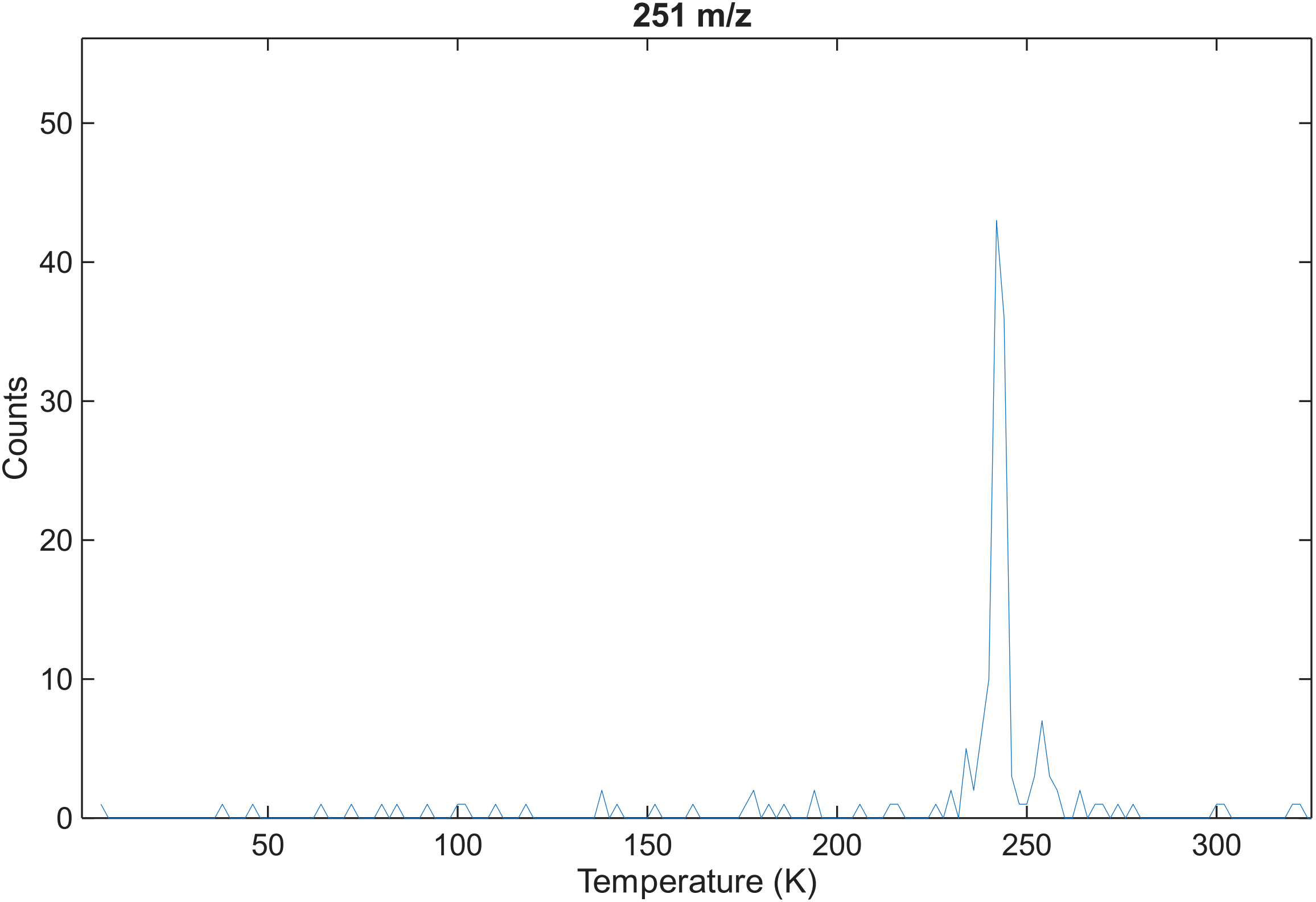
251 m/z
Counts
Temperature (K)
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20
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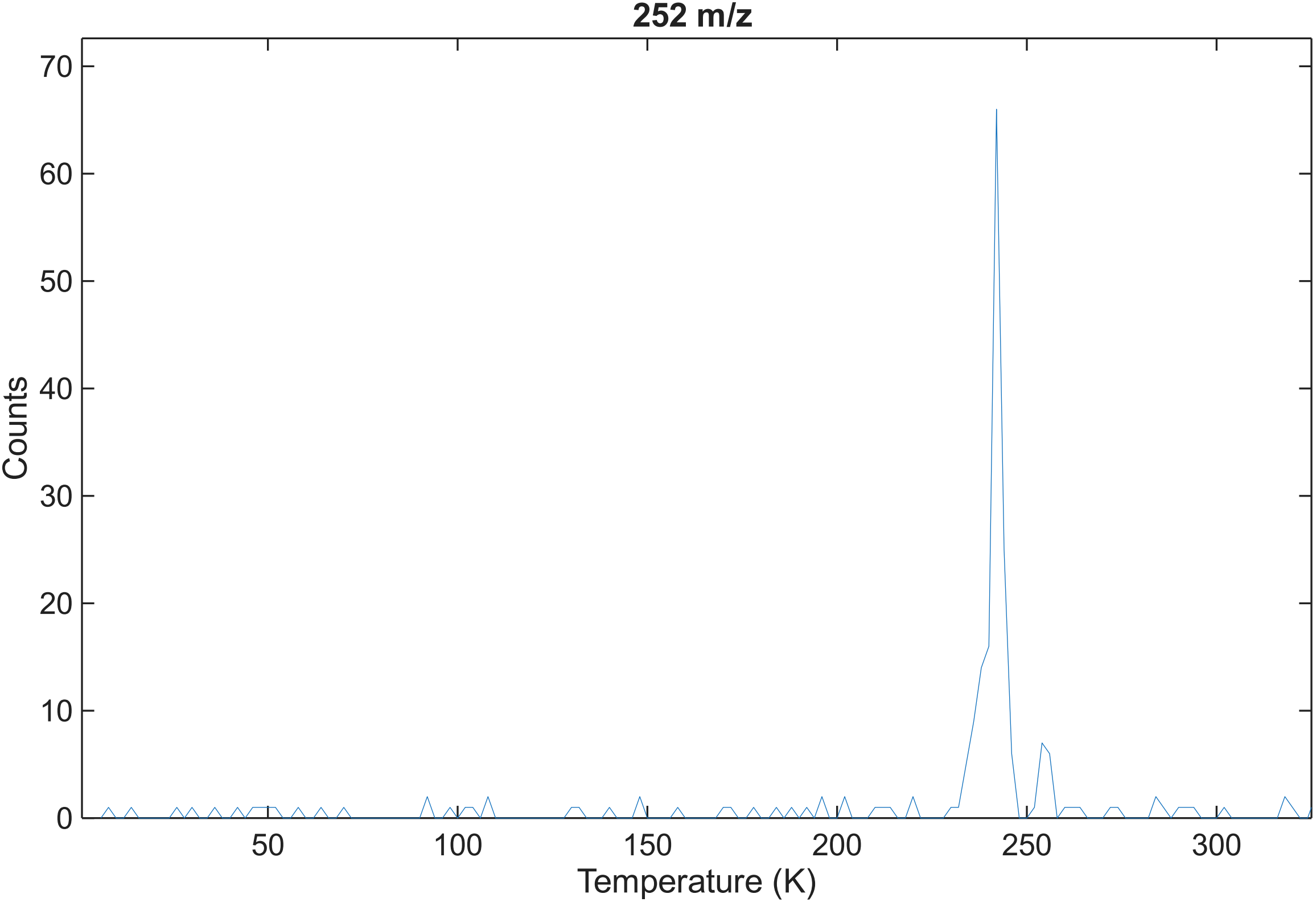
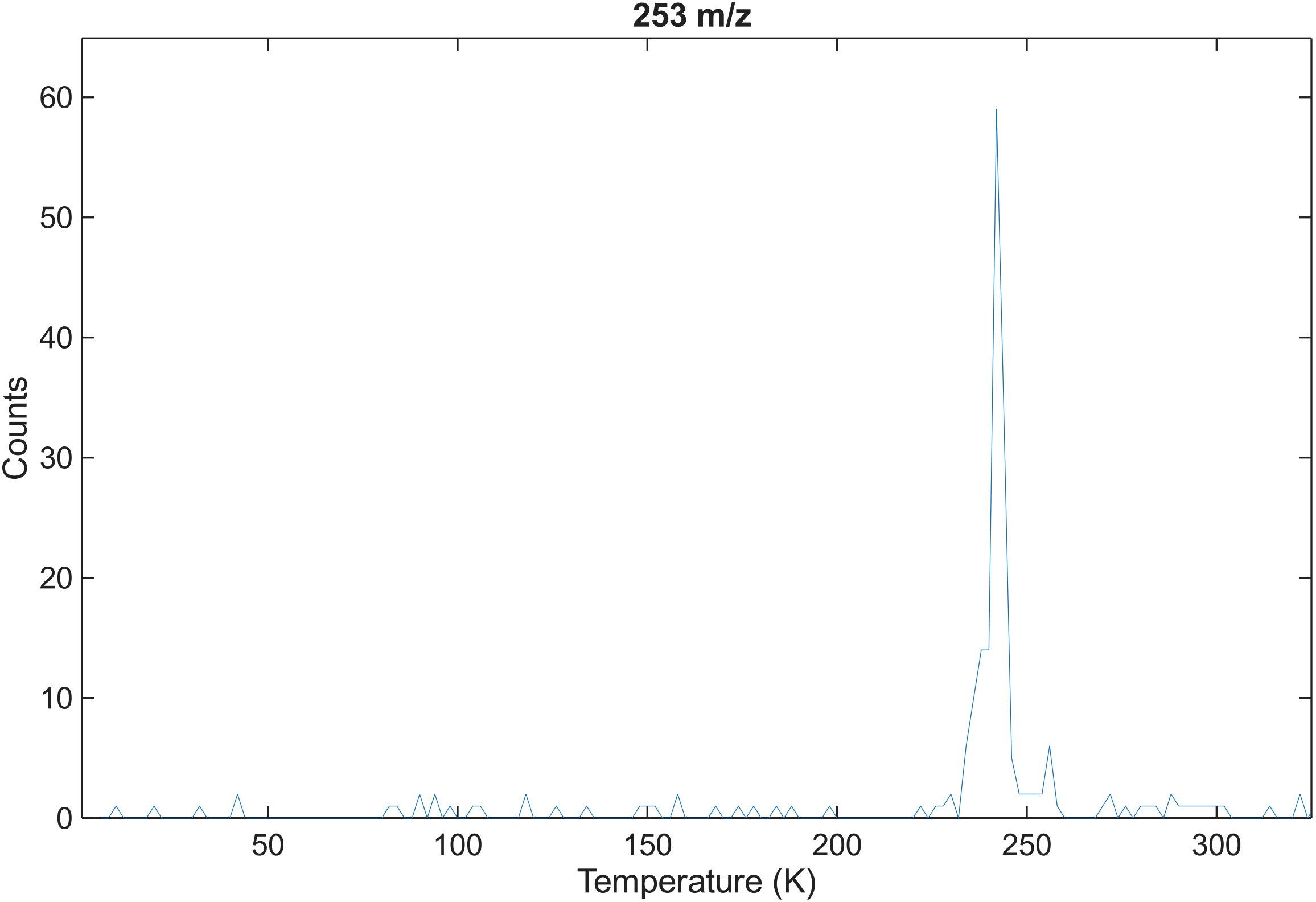
50
100
150
200
250
300


252 m/z
70
60
50
40
30
20
10
0
Counts
50
100
150
200
250
300
Temperature (K)


253 m/z
Counts
Temperature (K)
0
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20
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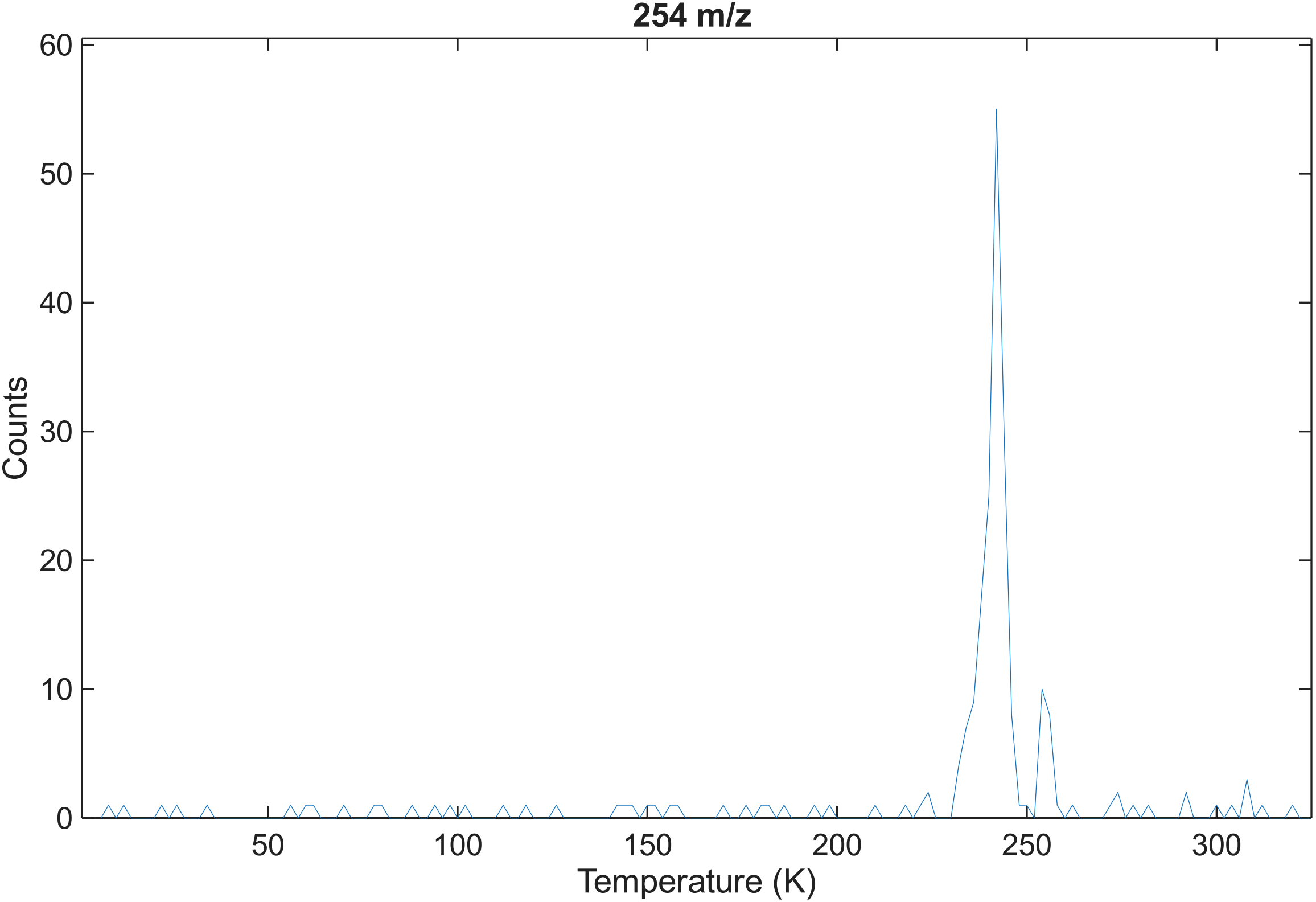
50
60
50
100
150
200
250
300


254 m/z
Counts
Temperature (K)
0
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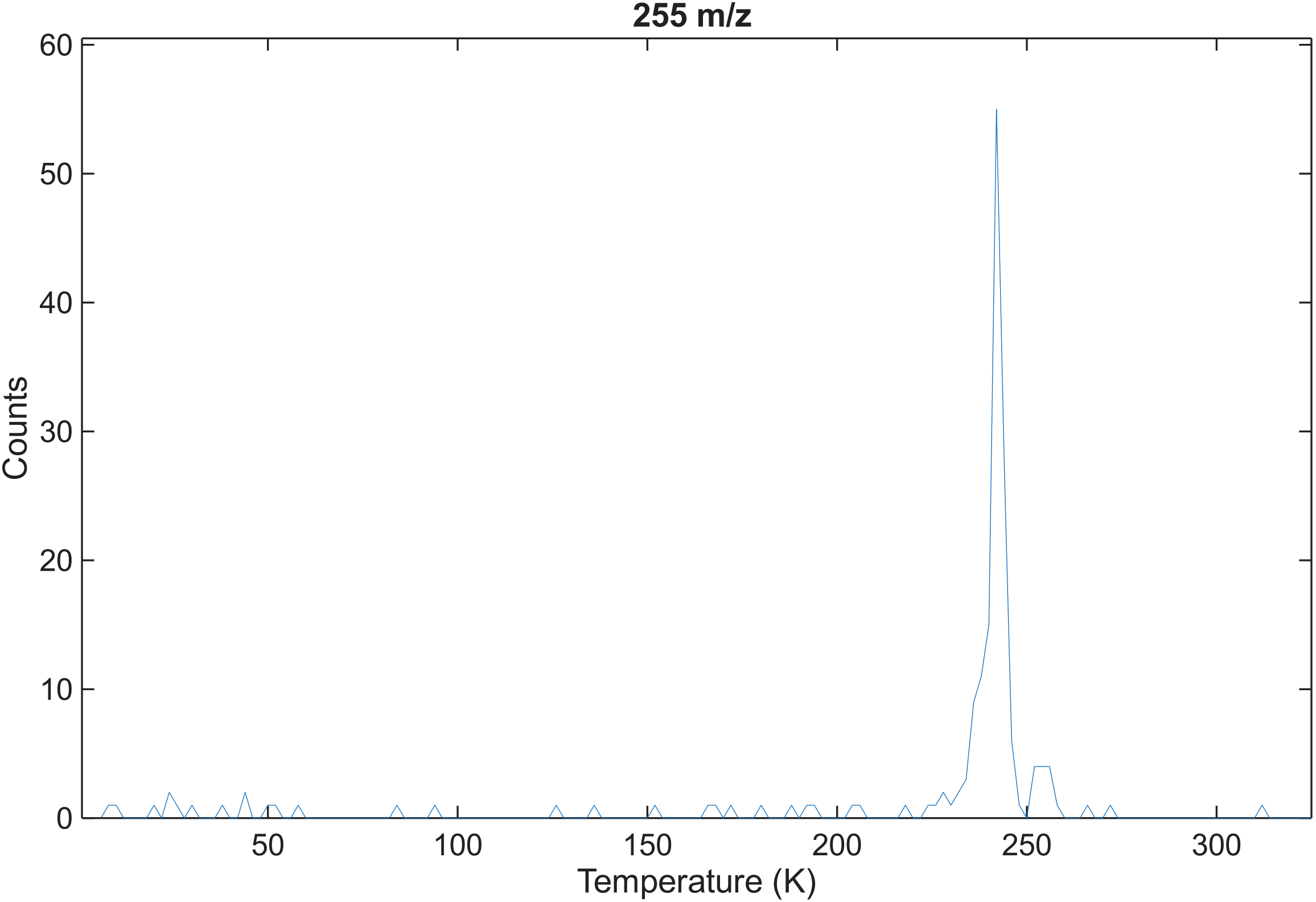
255 m/z
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20
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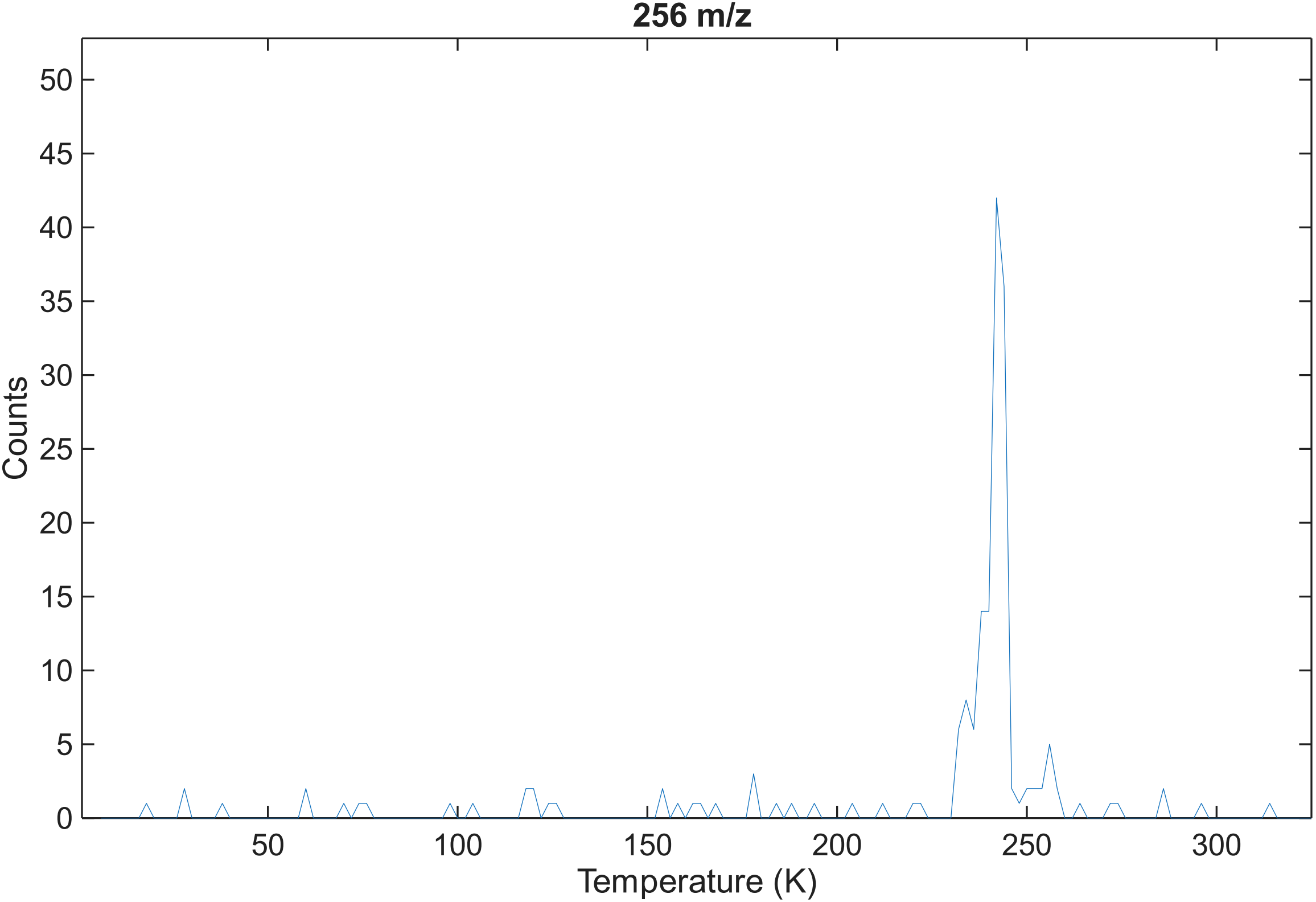
Counts
50
100
150
200
250
300
Temperature (K)


256 m/z
Counts
Temperature (K)
0
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45
50
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250
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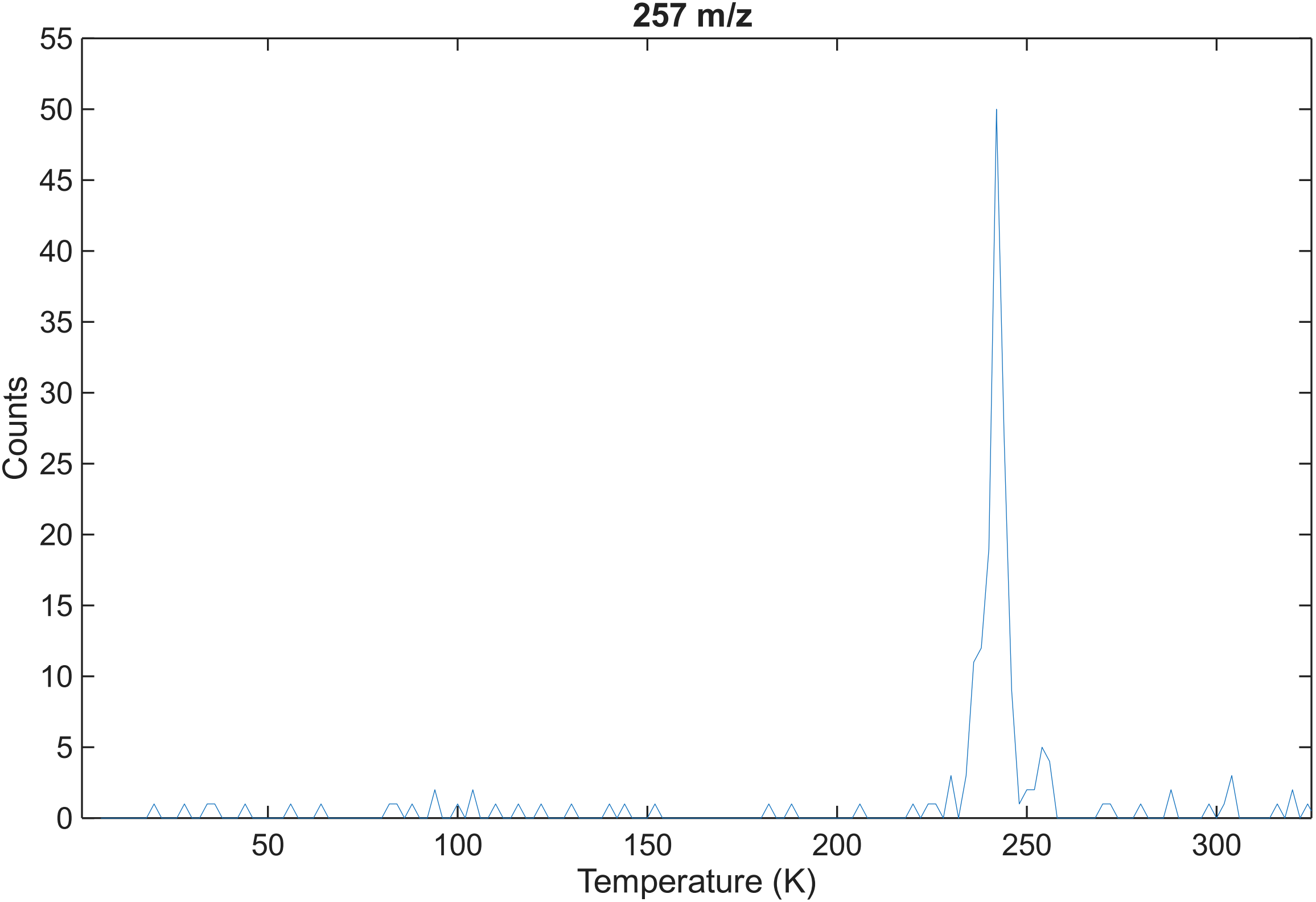
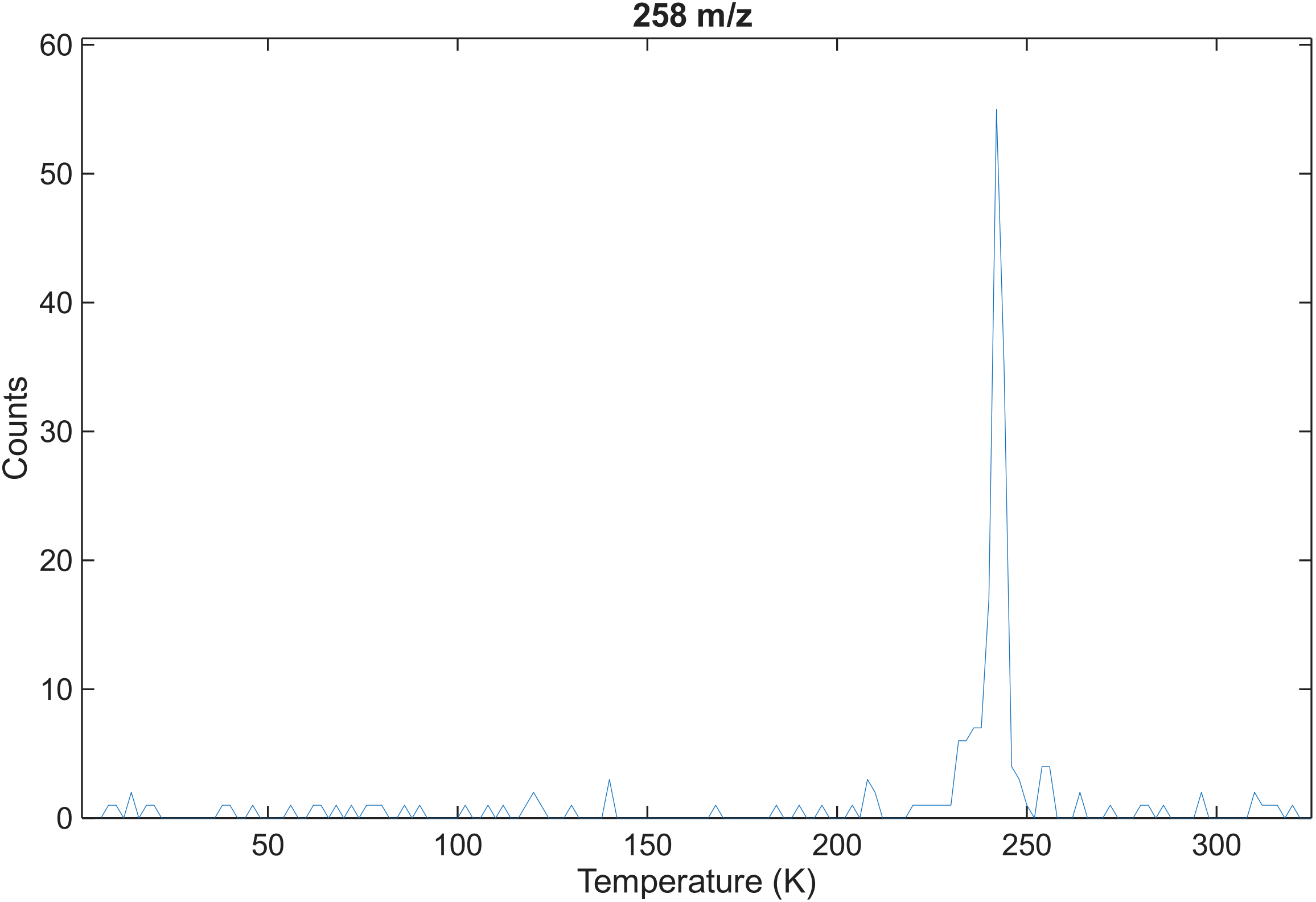

257 m/z
55
50
45
40
35
30
25
20
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)


258 m/z
60
50
40
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0
Counts
50
100
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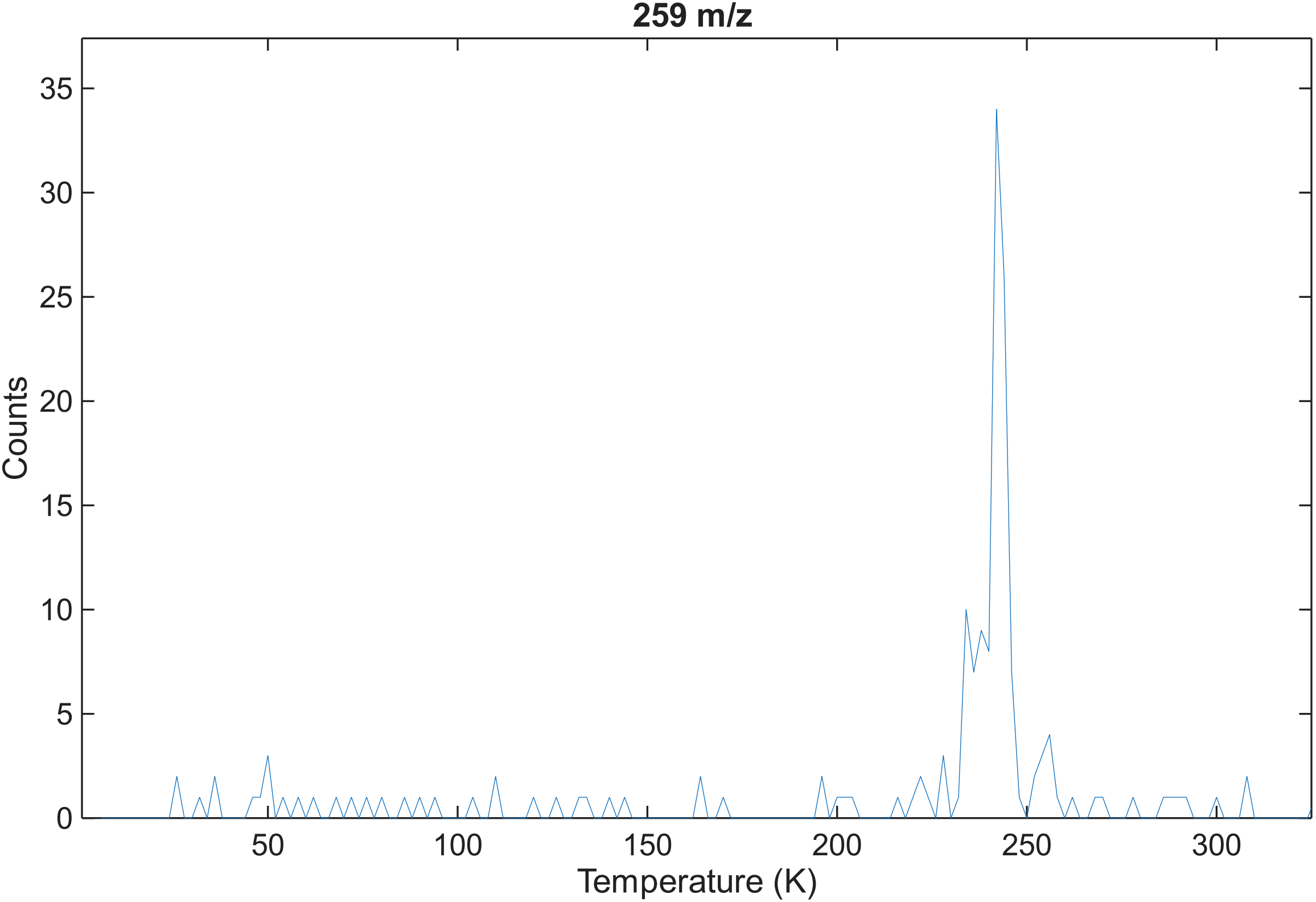
250
300
Temperature (K)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Temperature (K)
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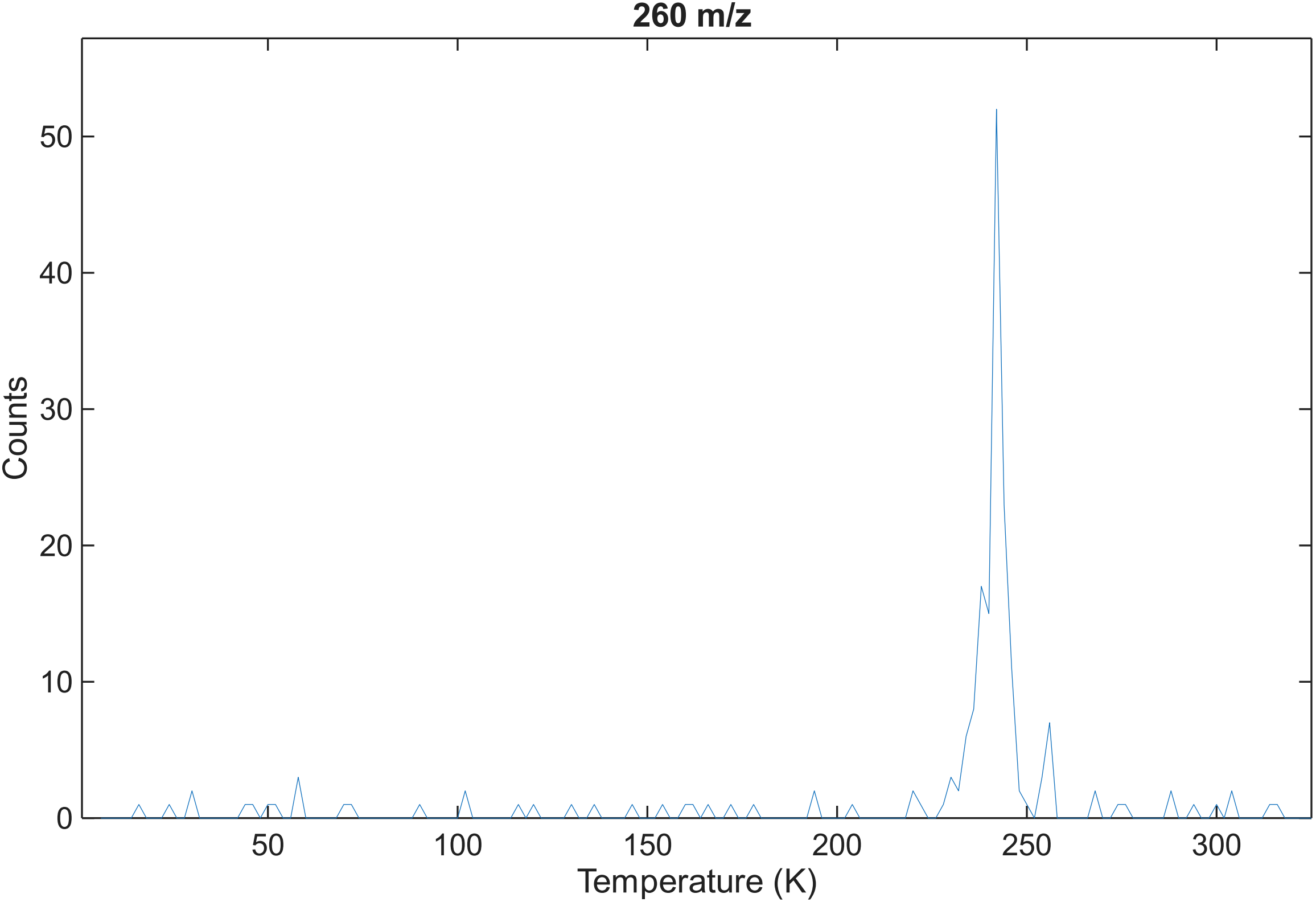
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Temperature (K)
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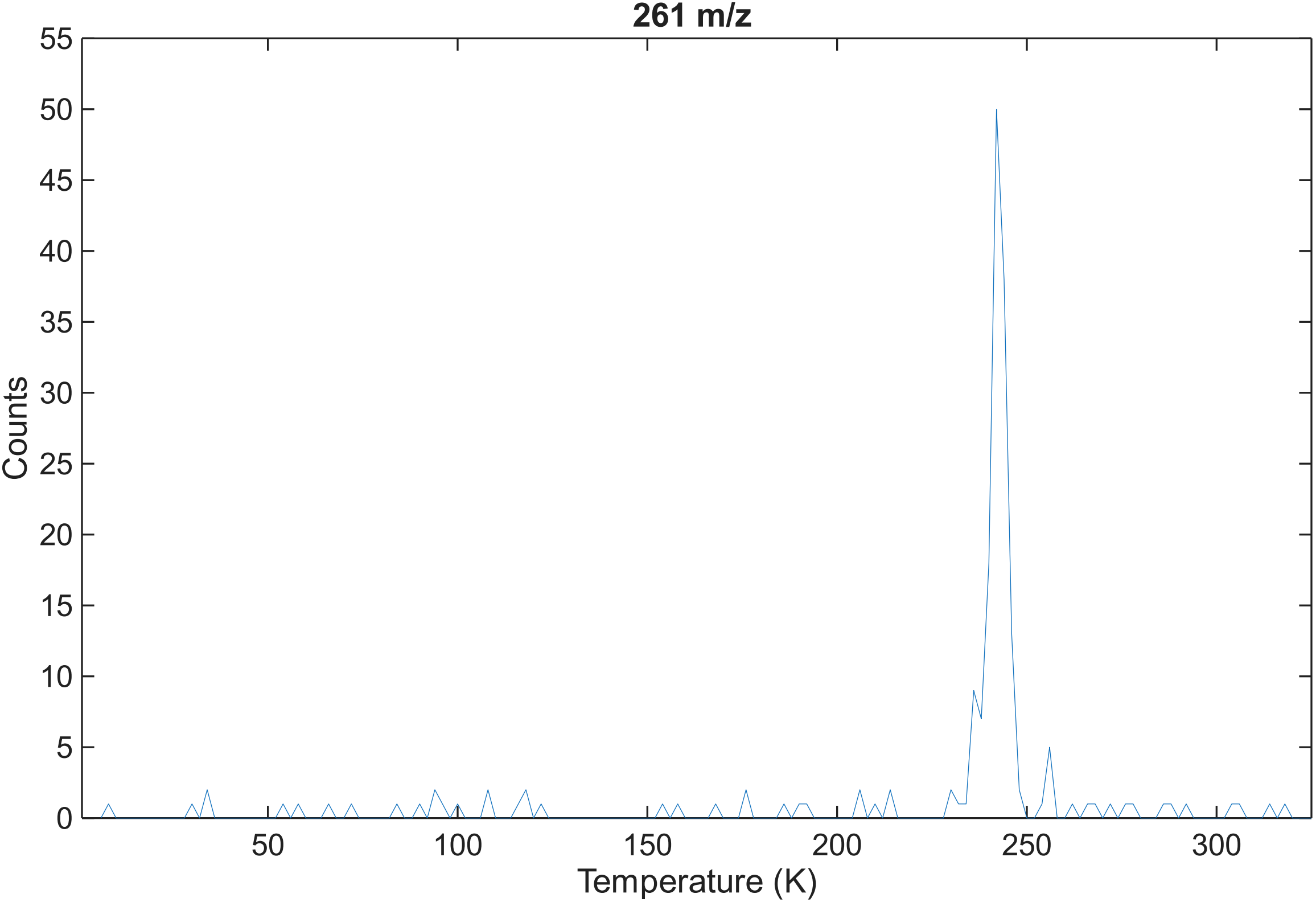
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Counts
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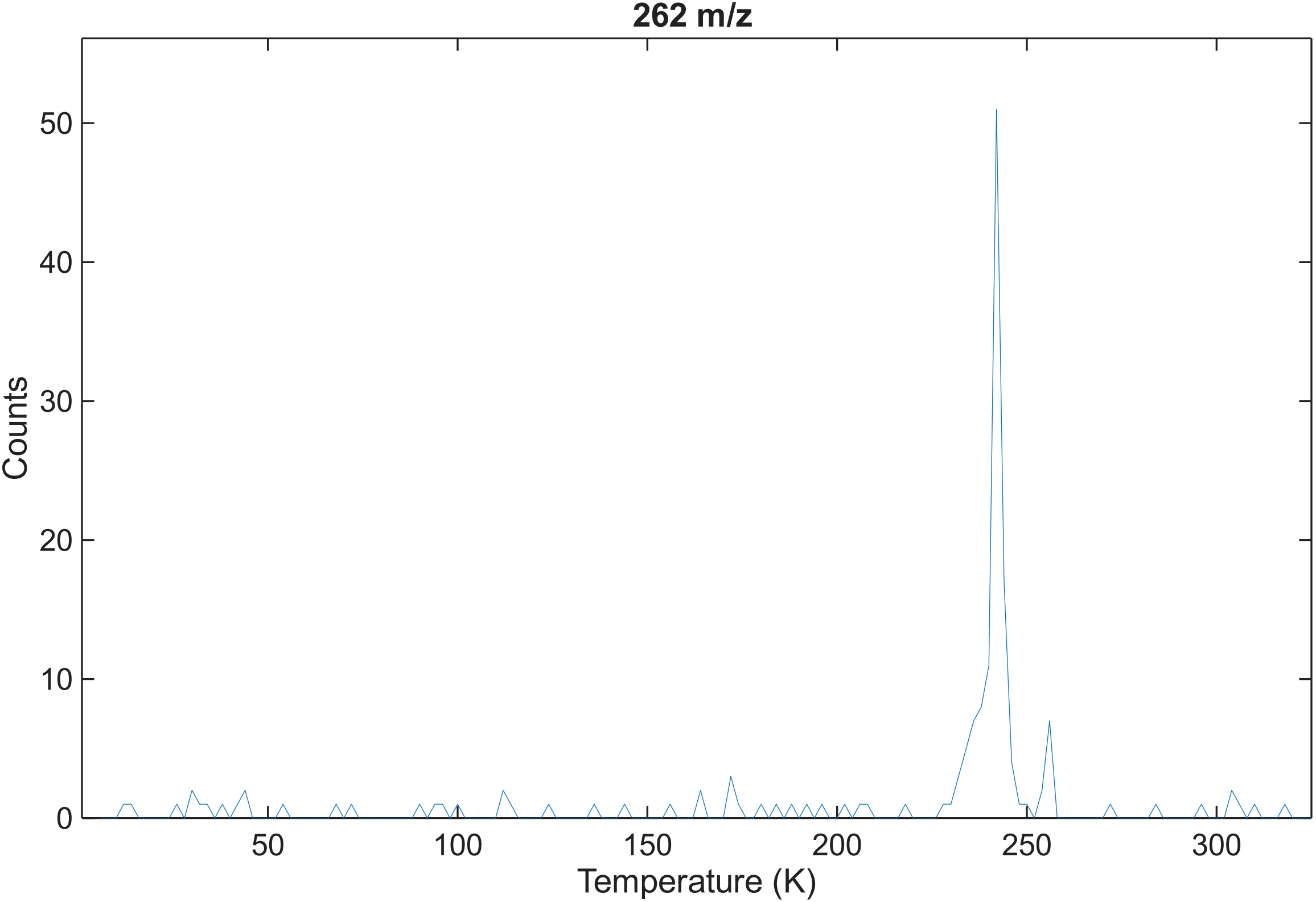
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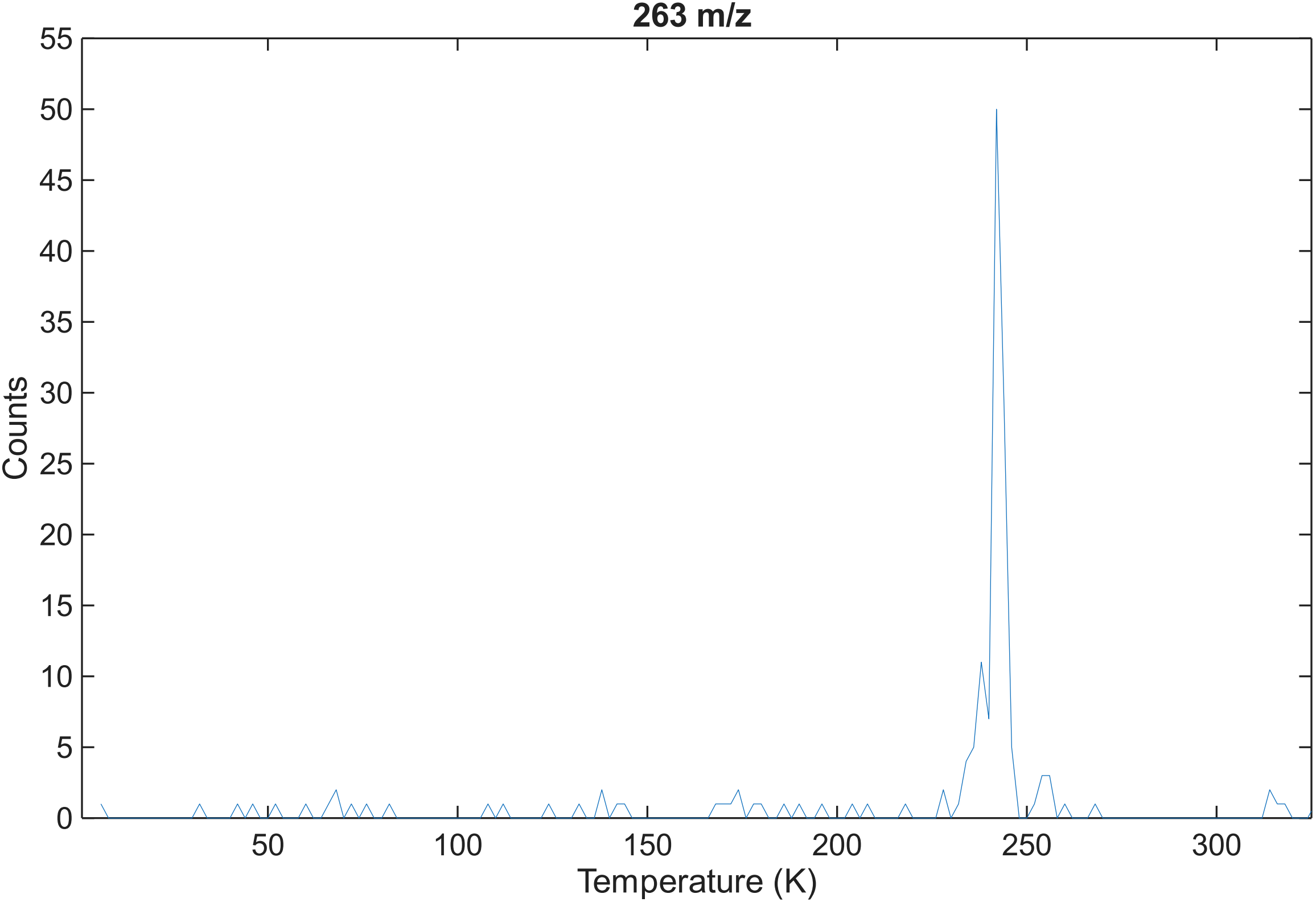
263 m/z
Counts
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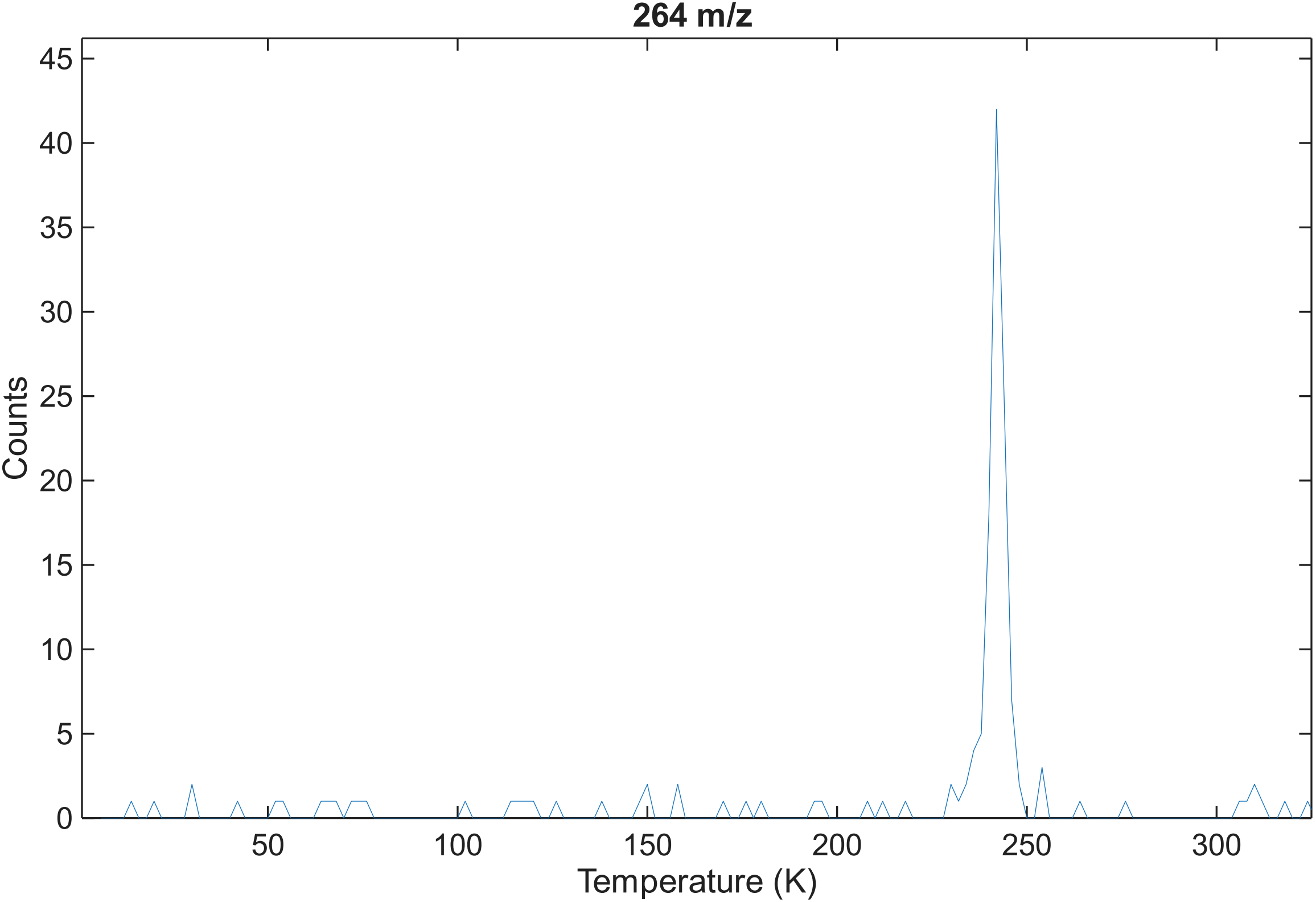
264 m/z
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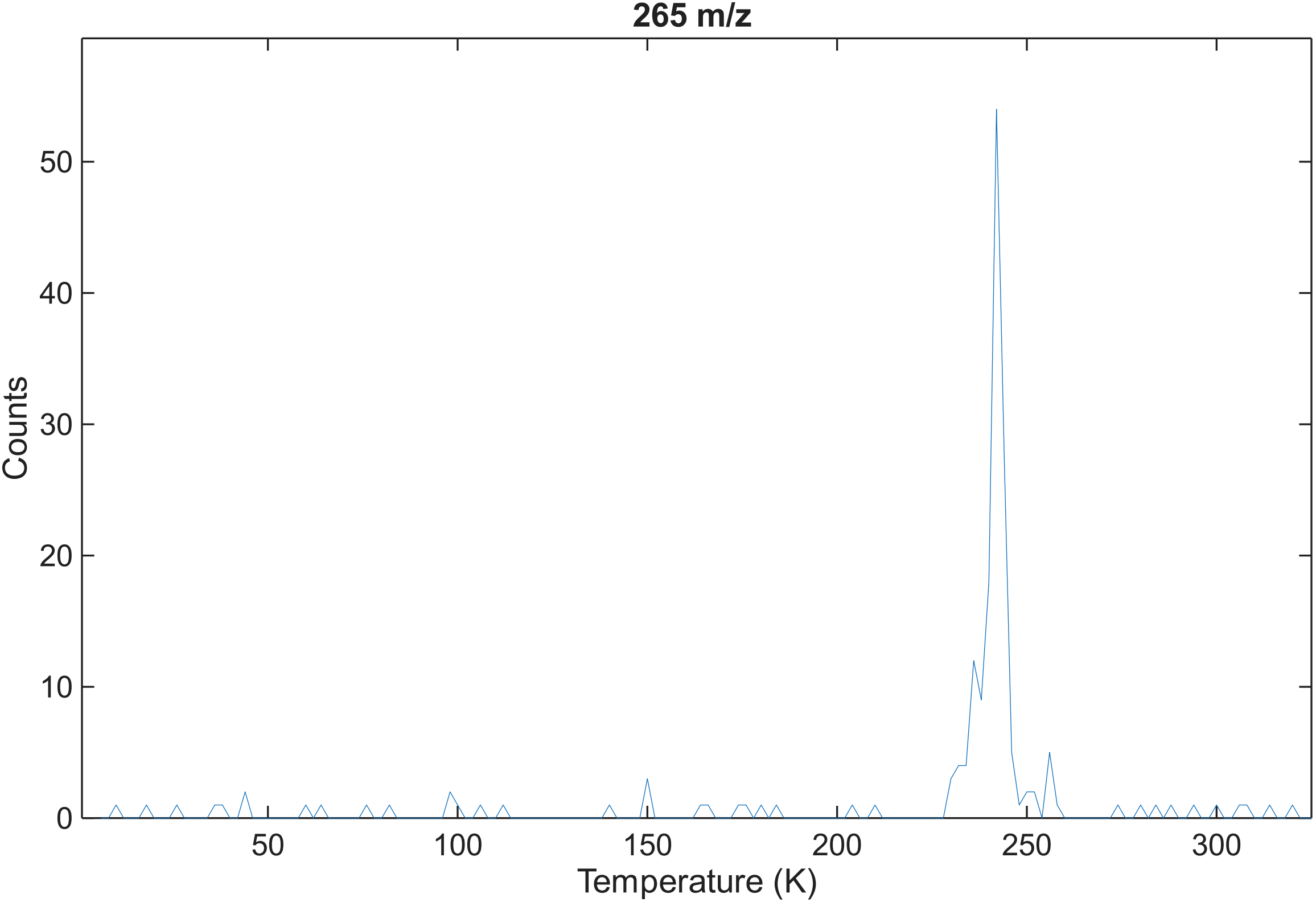
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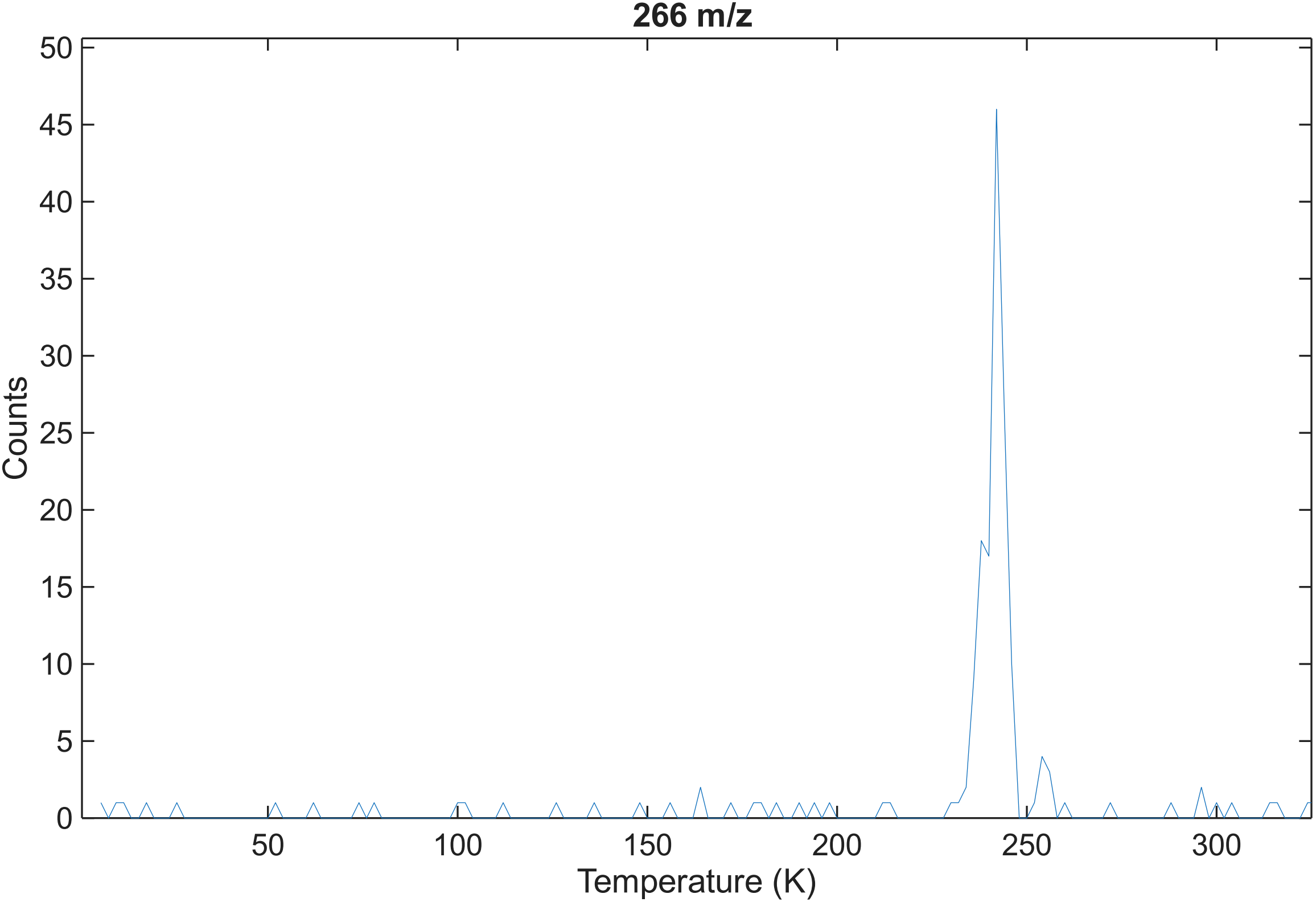
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Temperature (K)
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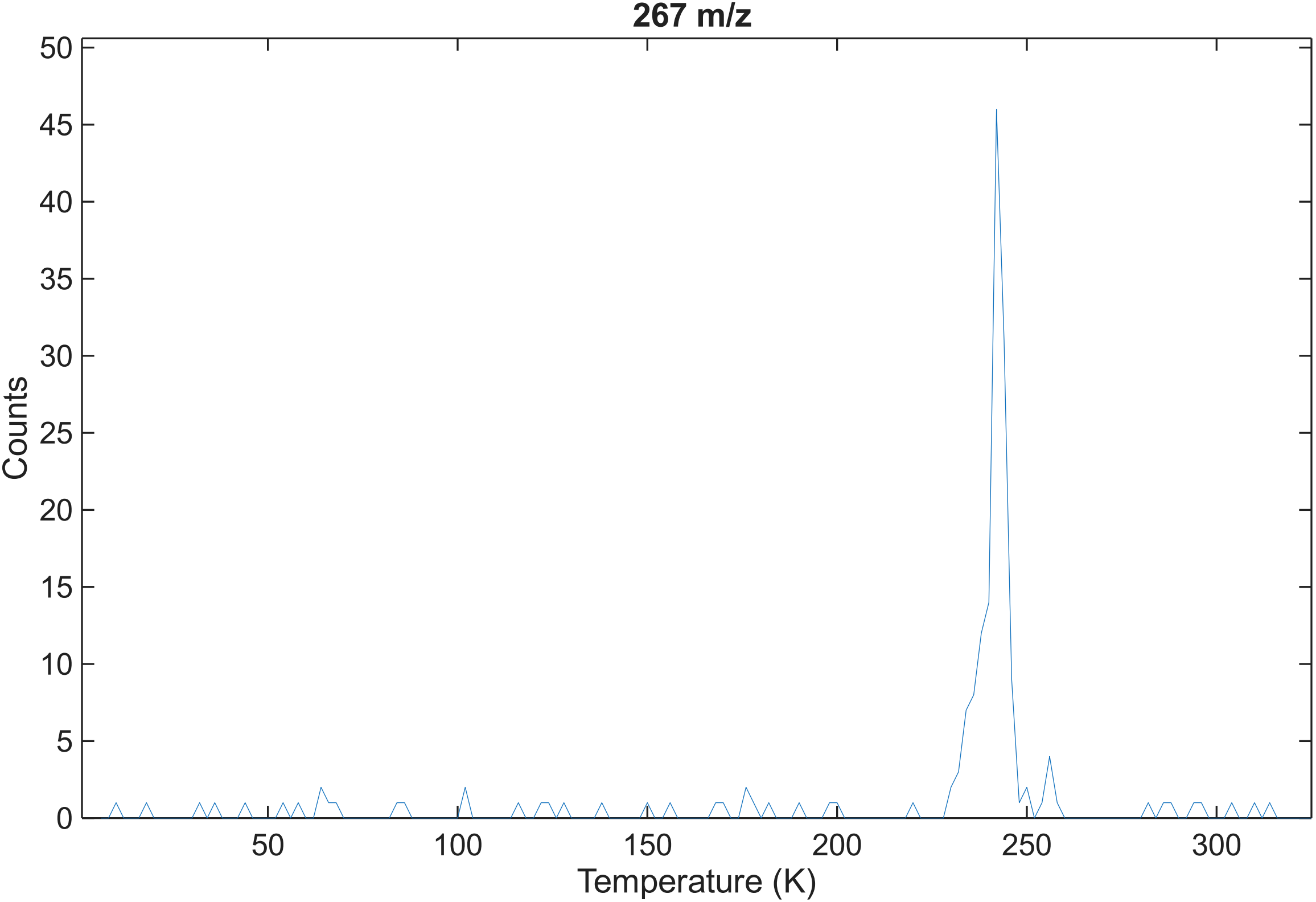
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Temperature (K)
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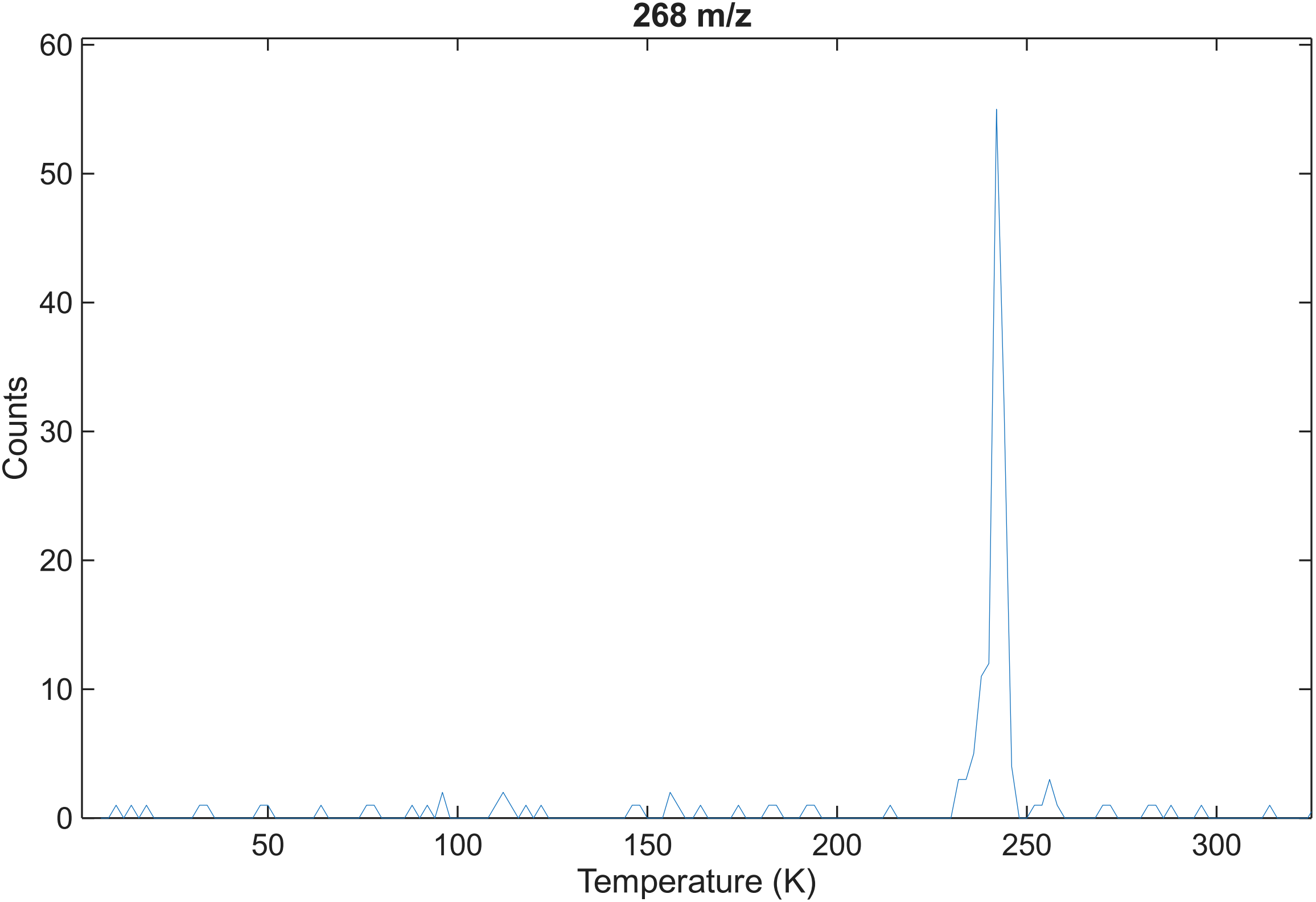
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Counts
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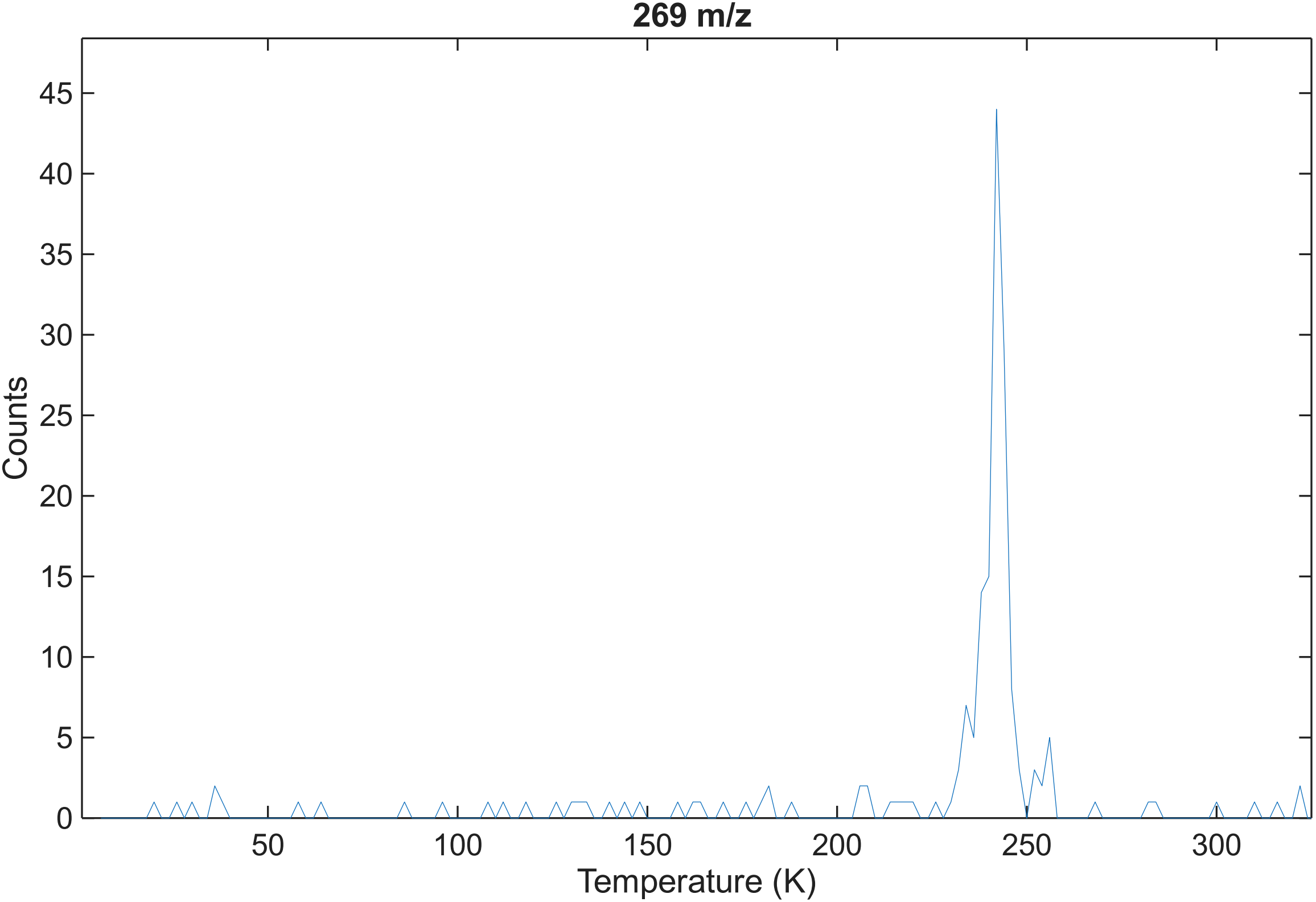
Temperature (K)


269 m/z
Counts
Temperature (K)
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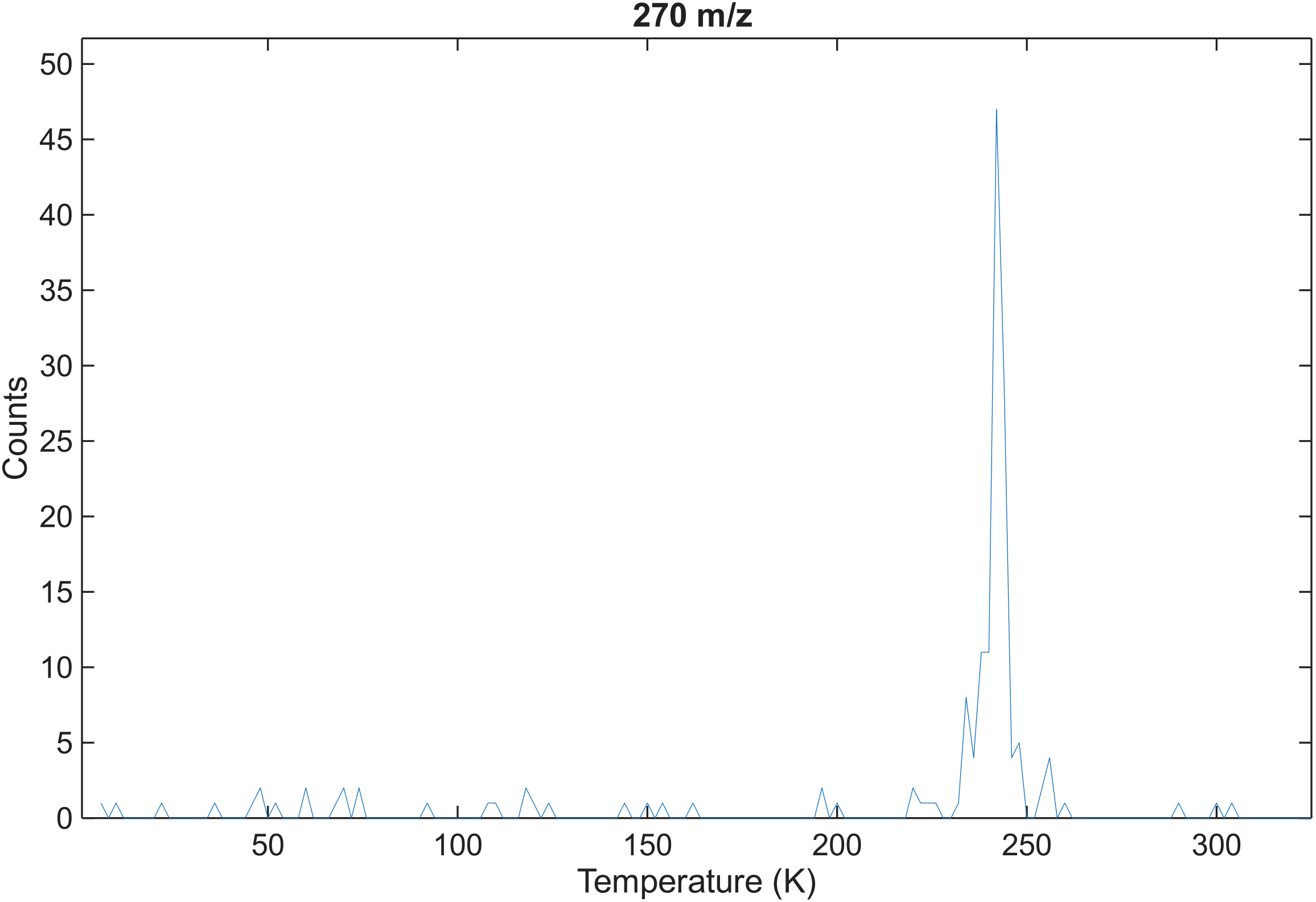
270 m/z
Counts
Temperature (K)
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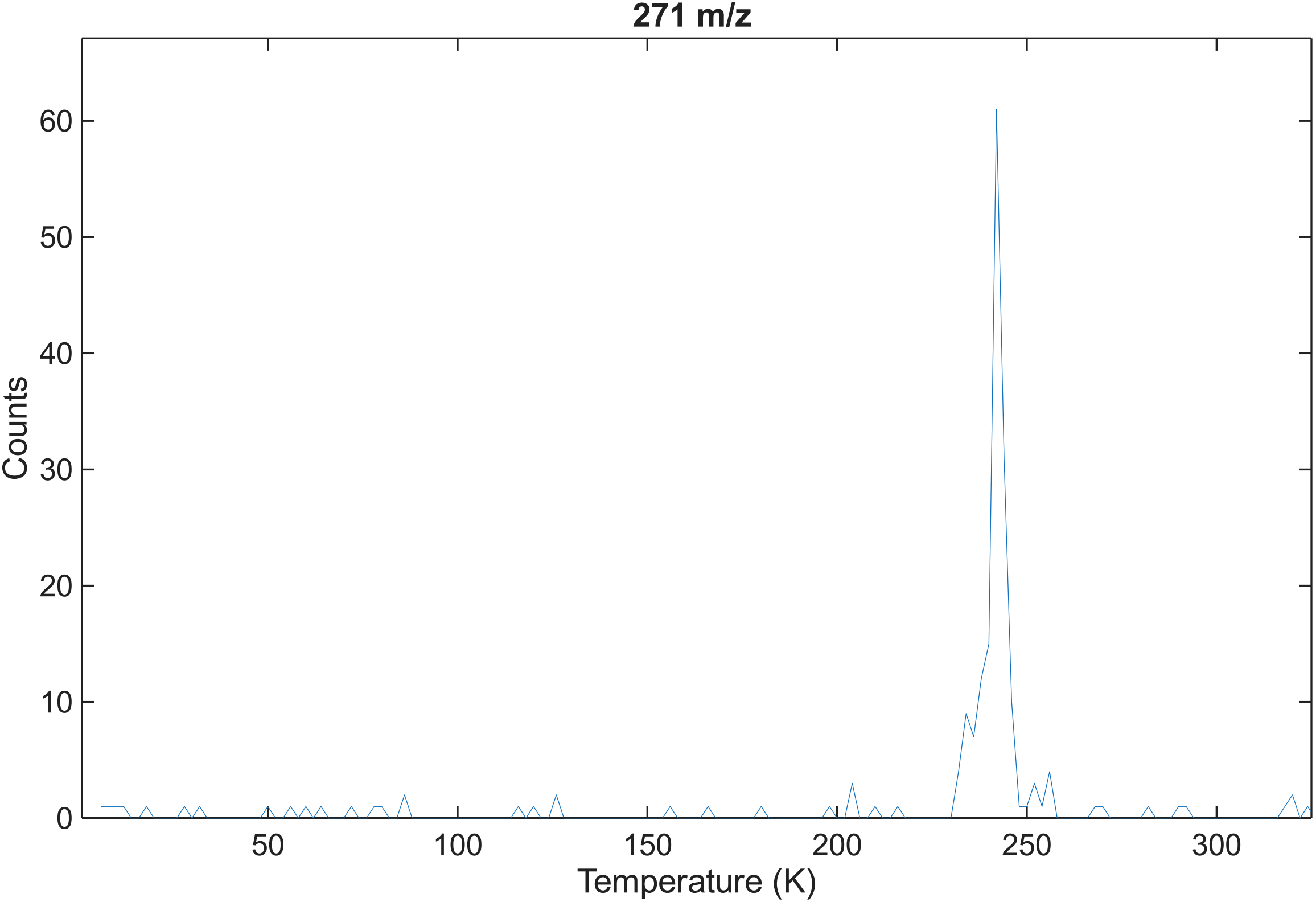
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Counts
Temperature (K)
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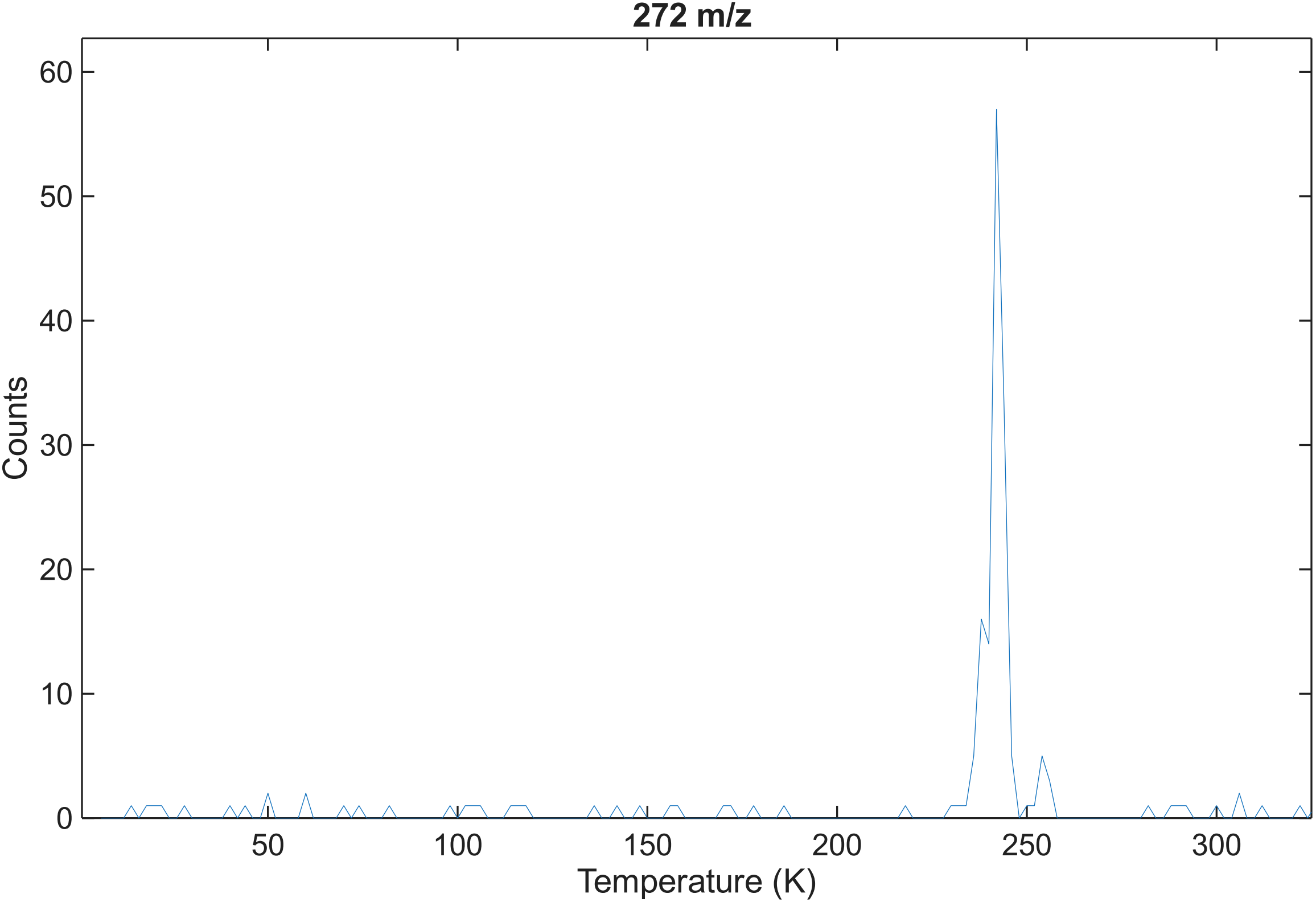
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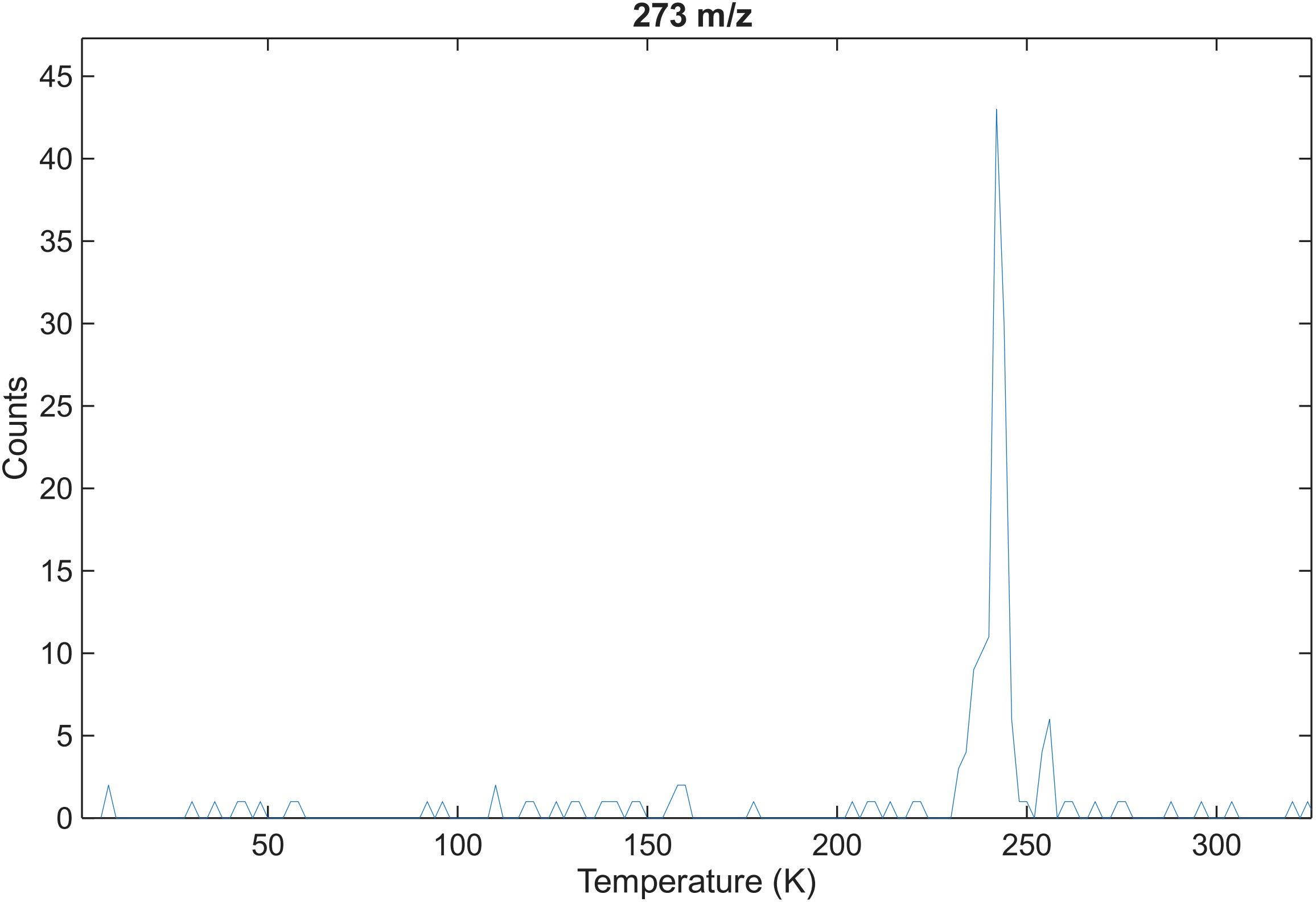
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Counts
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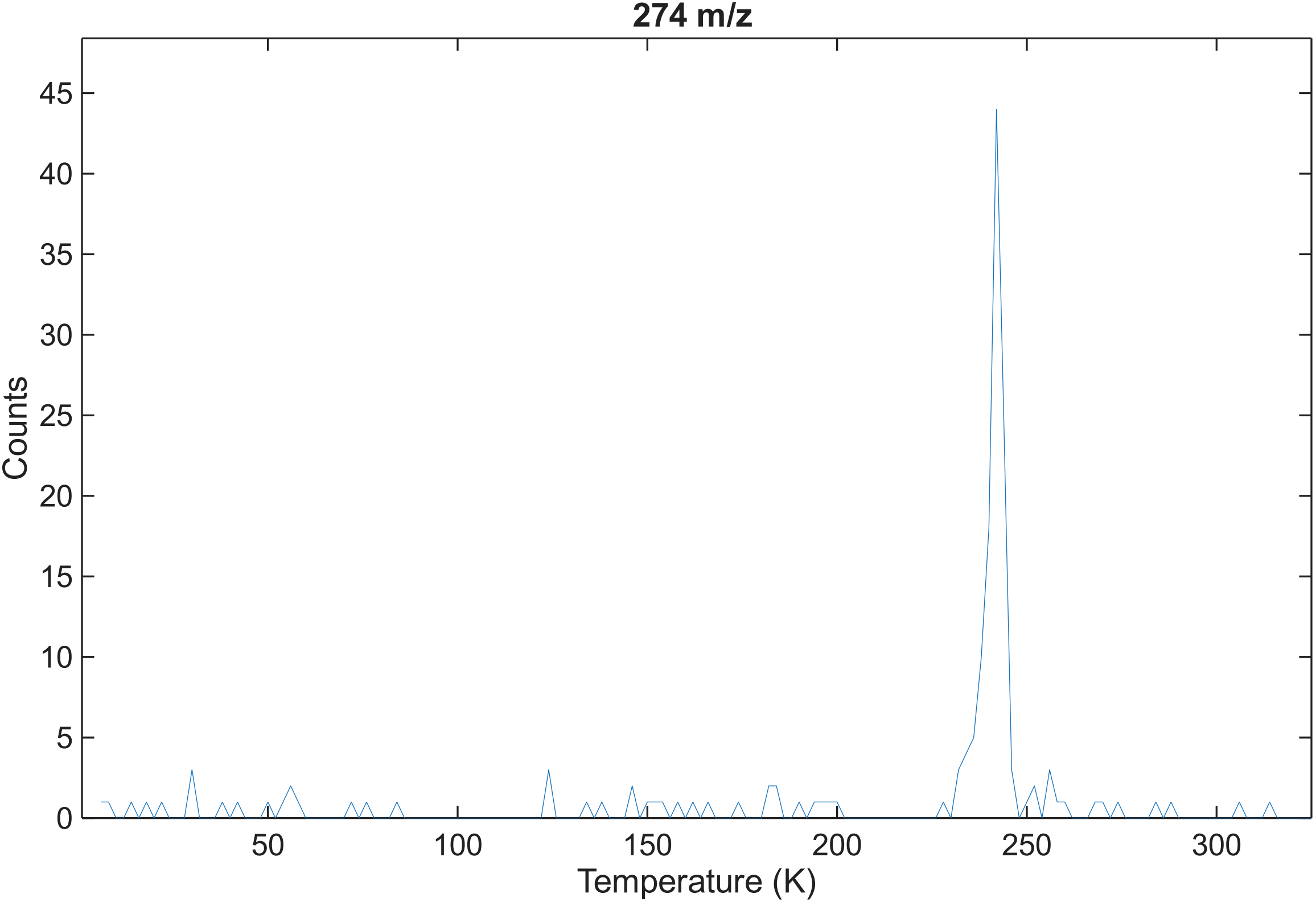
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Counts
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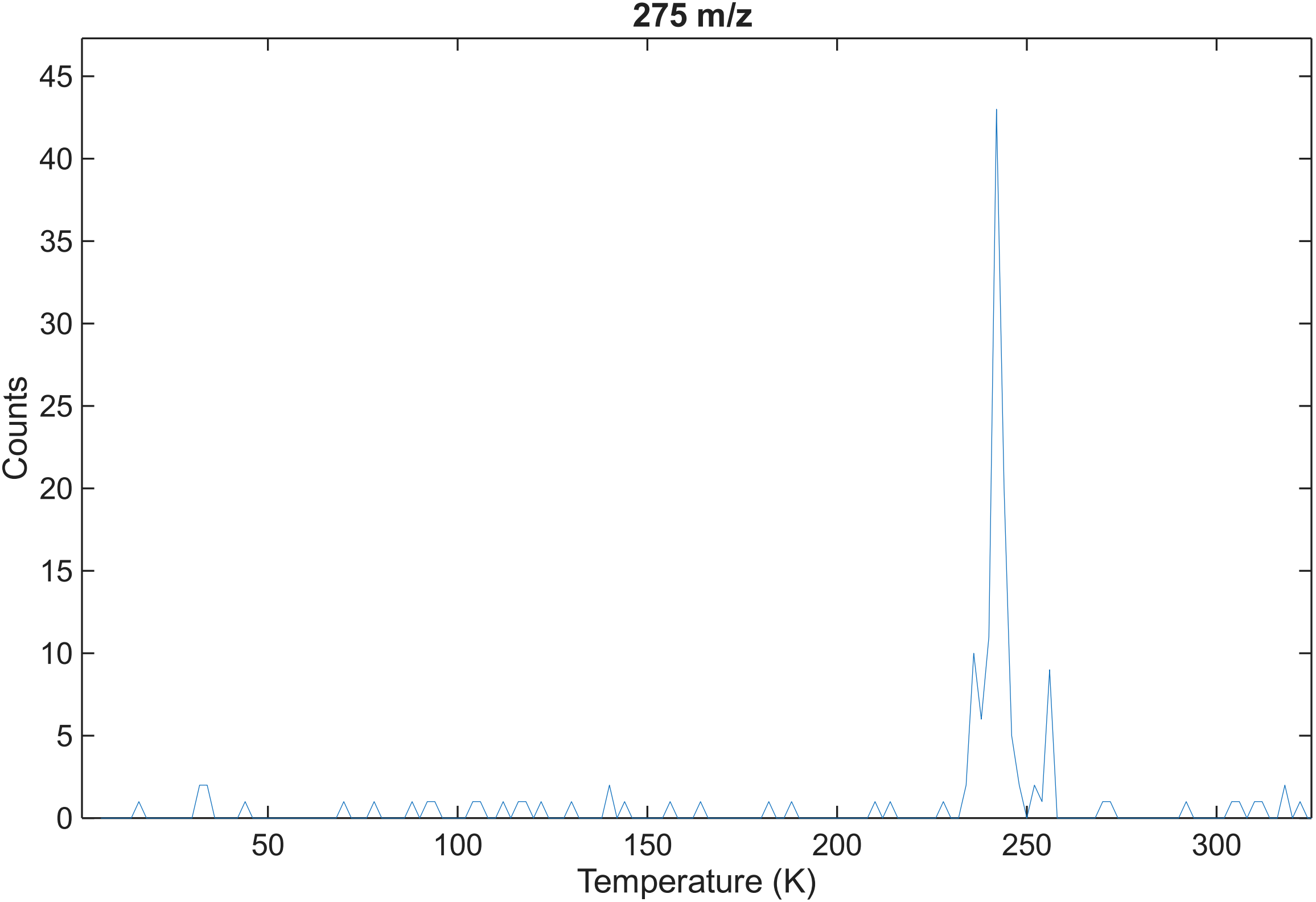
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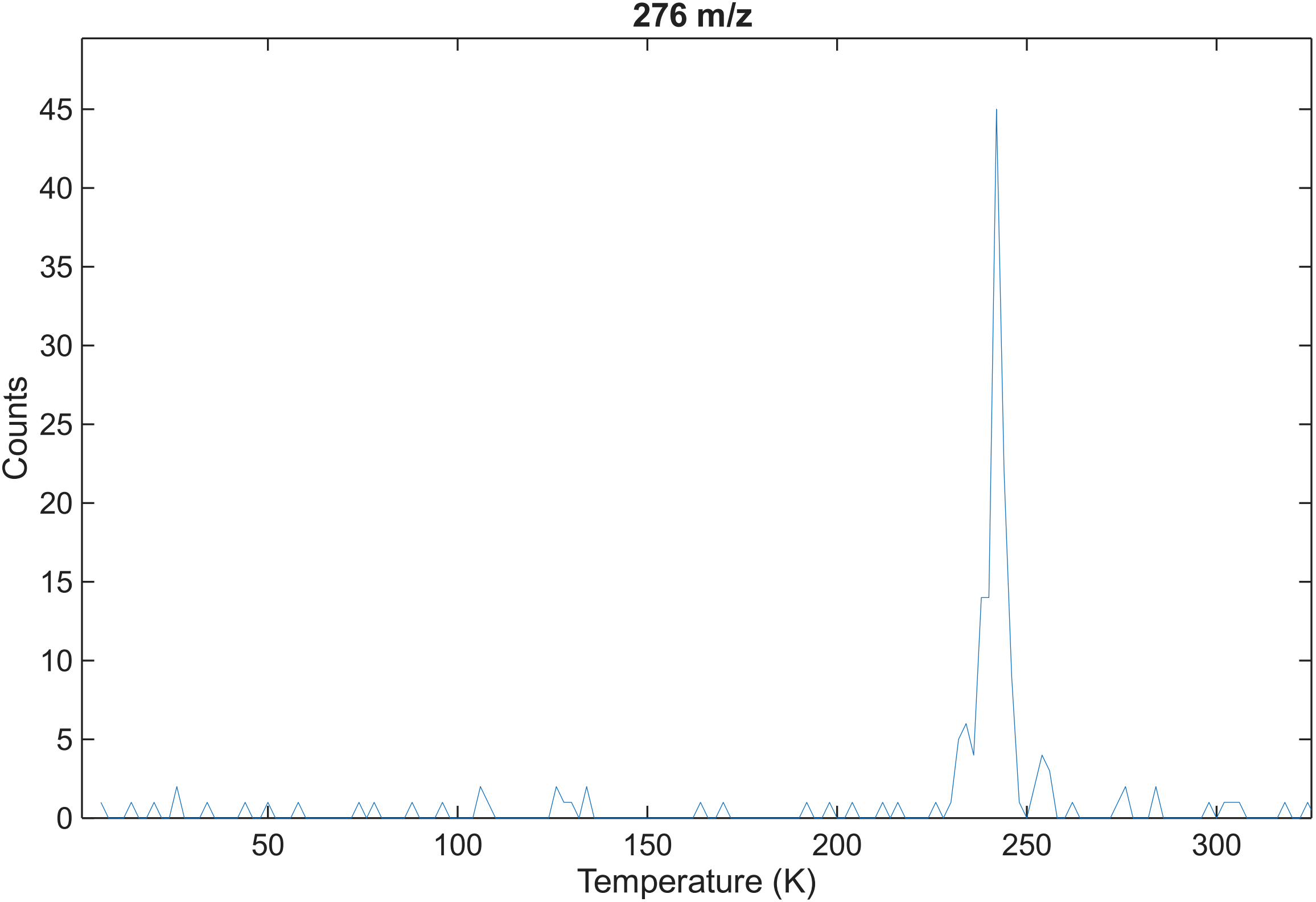
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Counts
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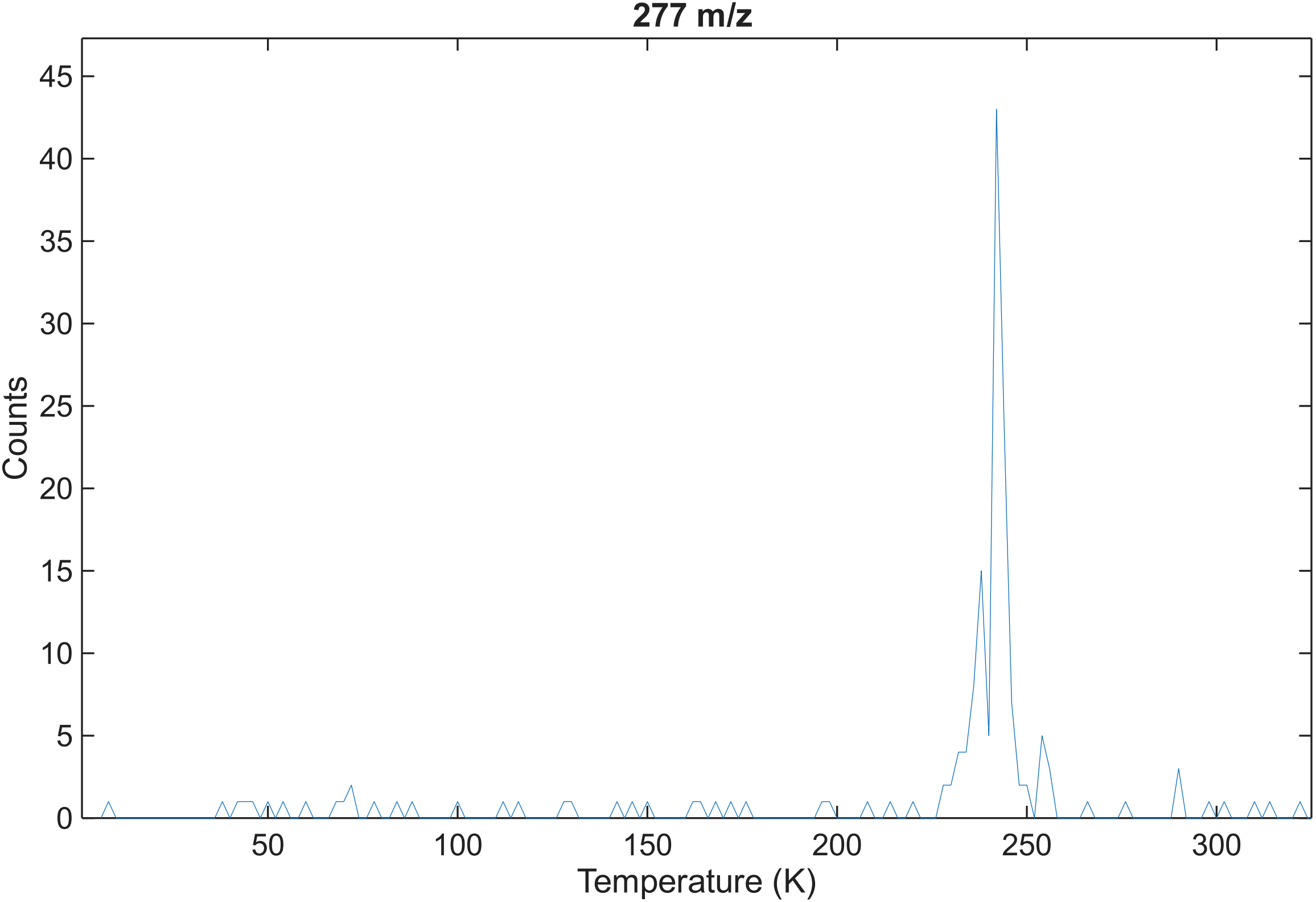
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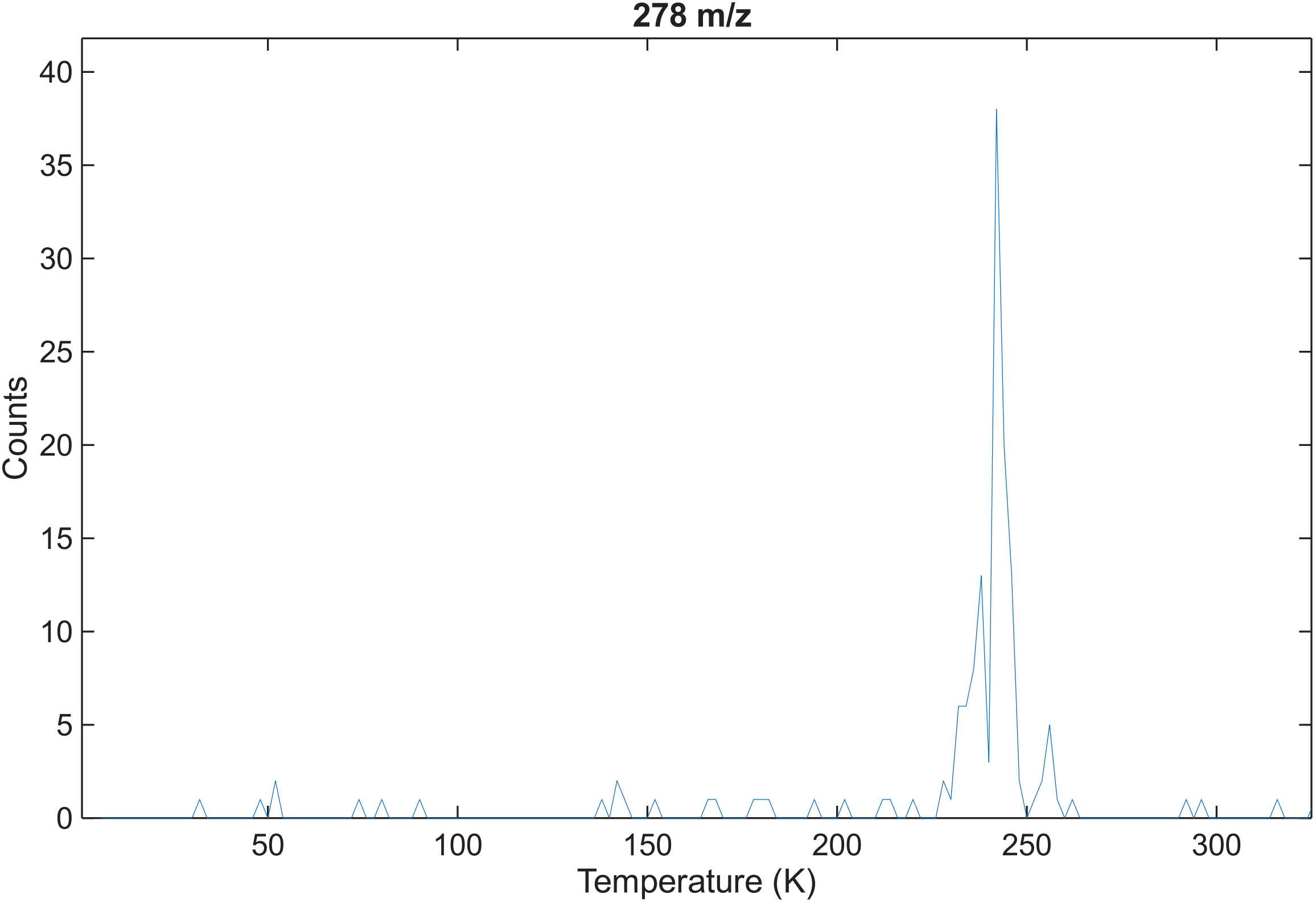
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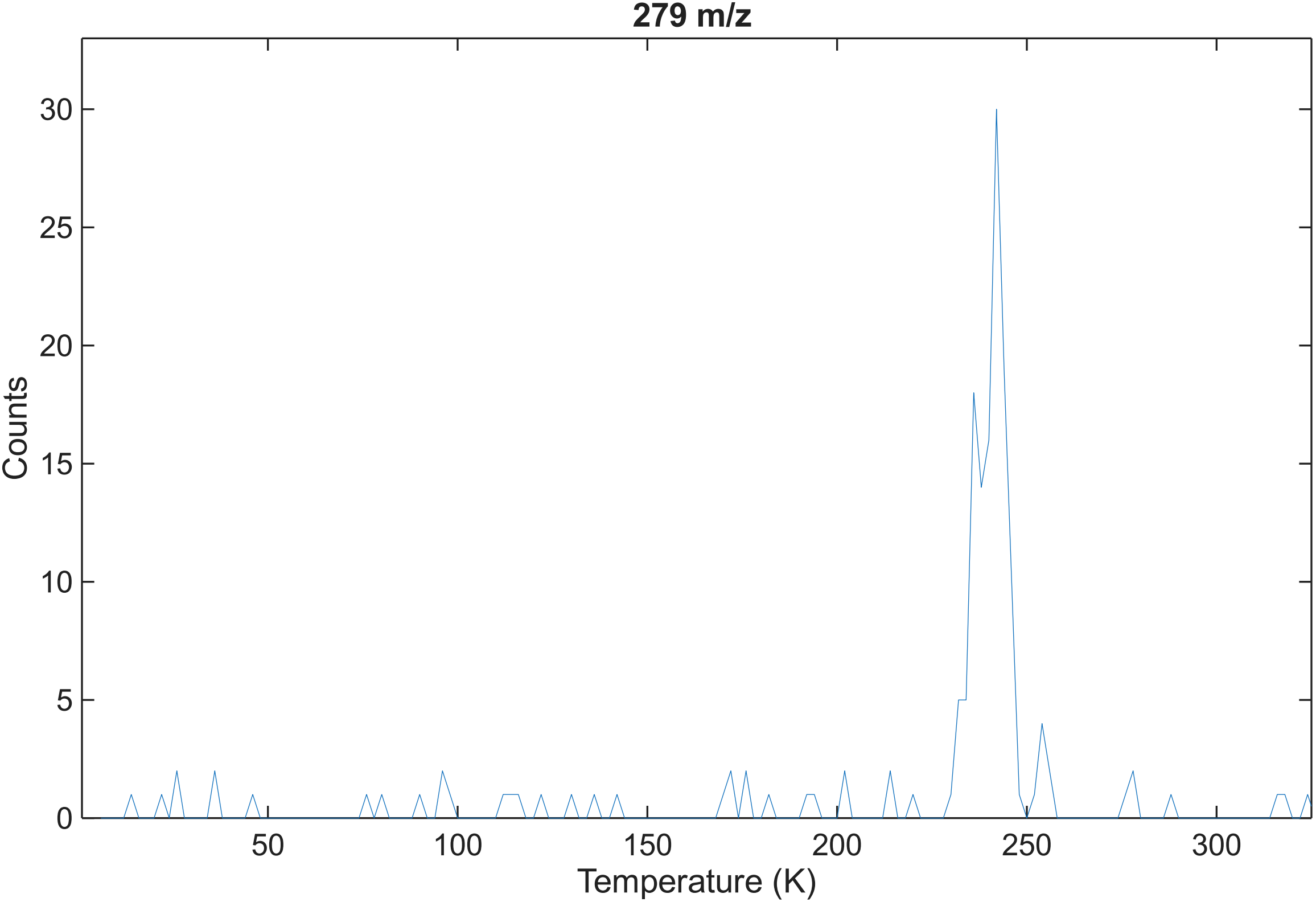
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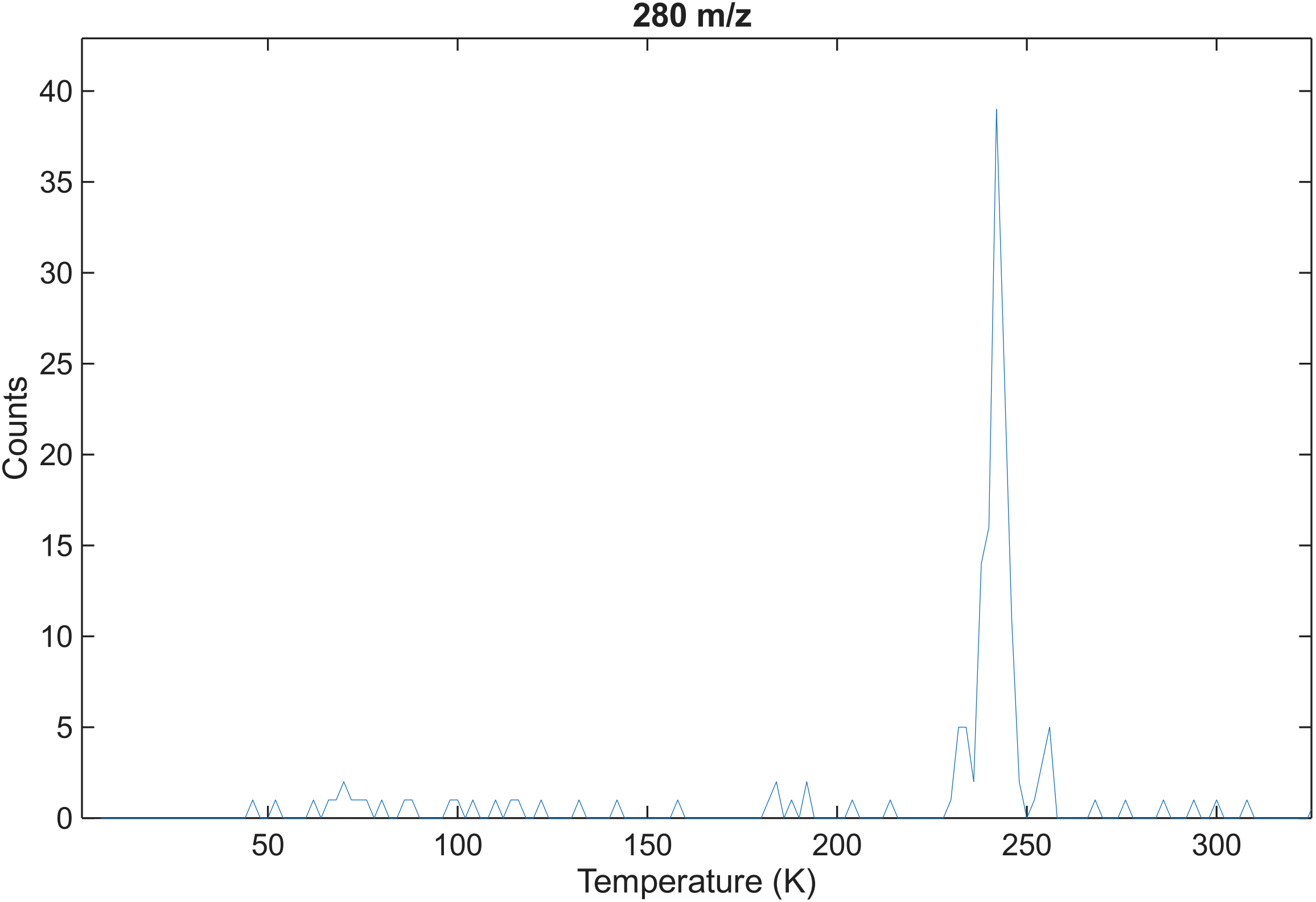
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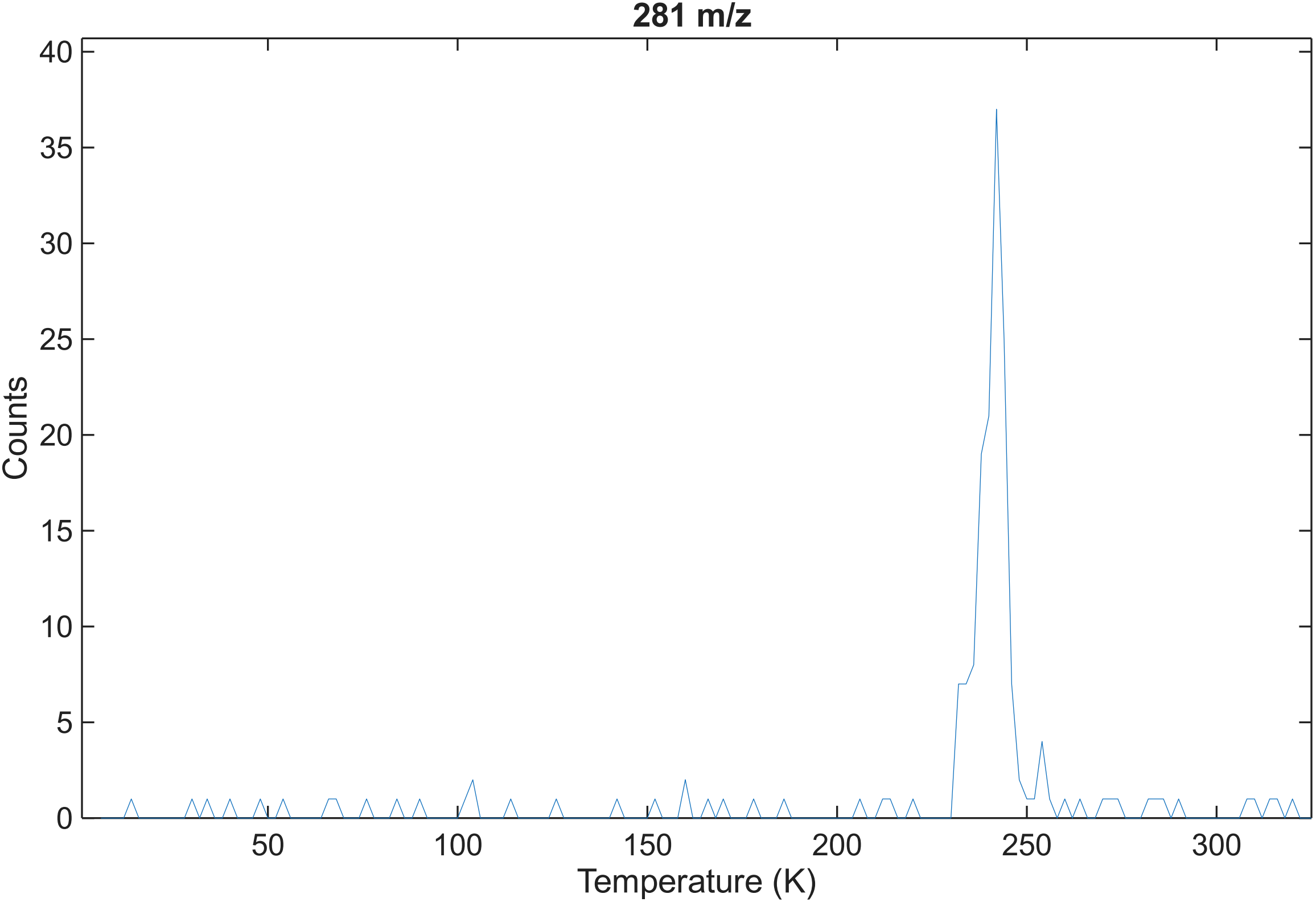
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Counts
Temperature (K)
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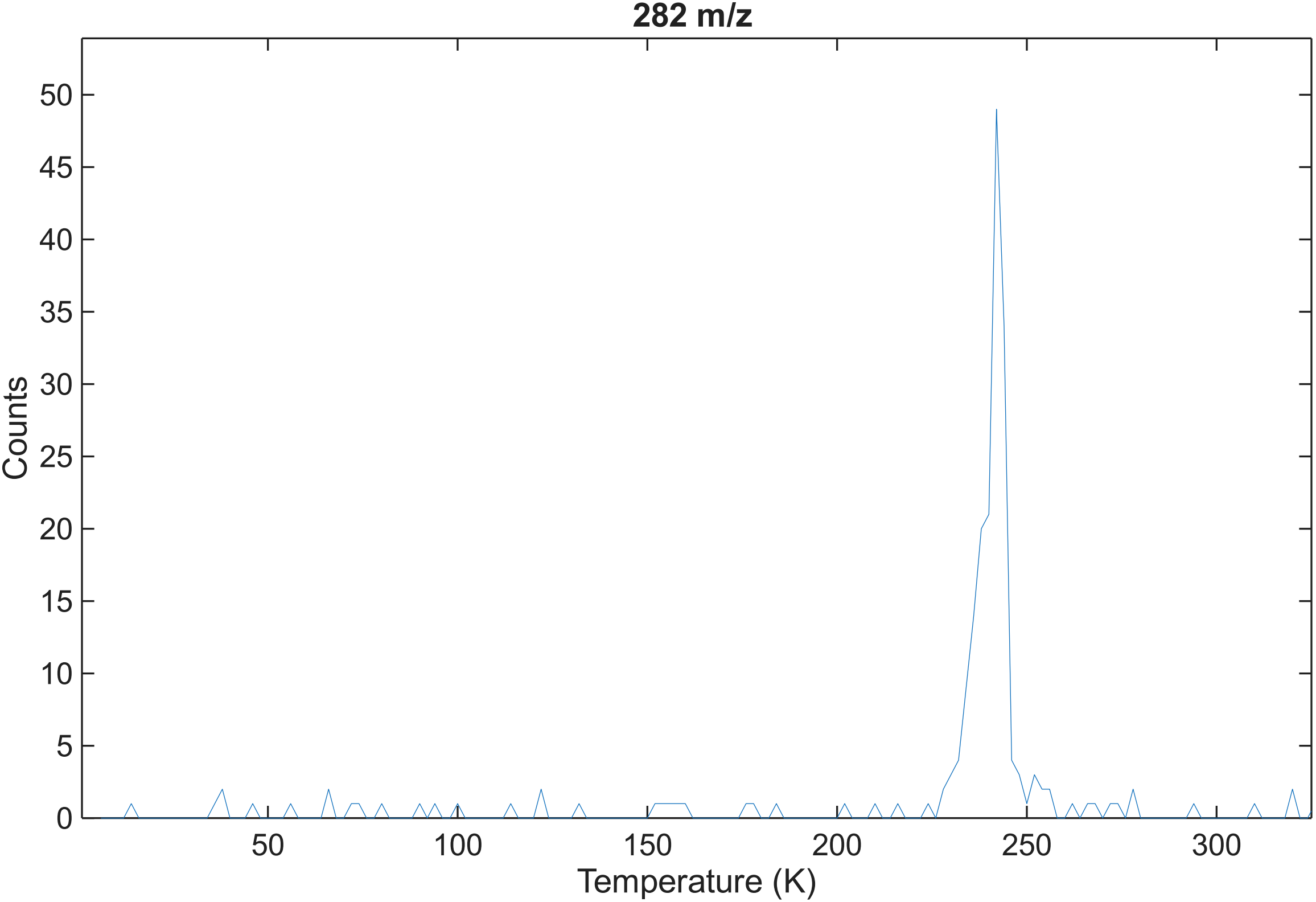
282 m/z
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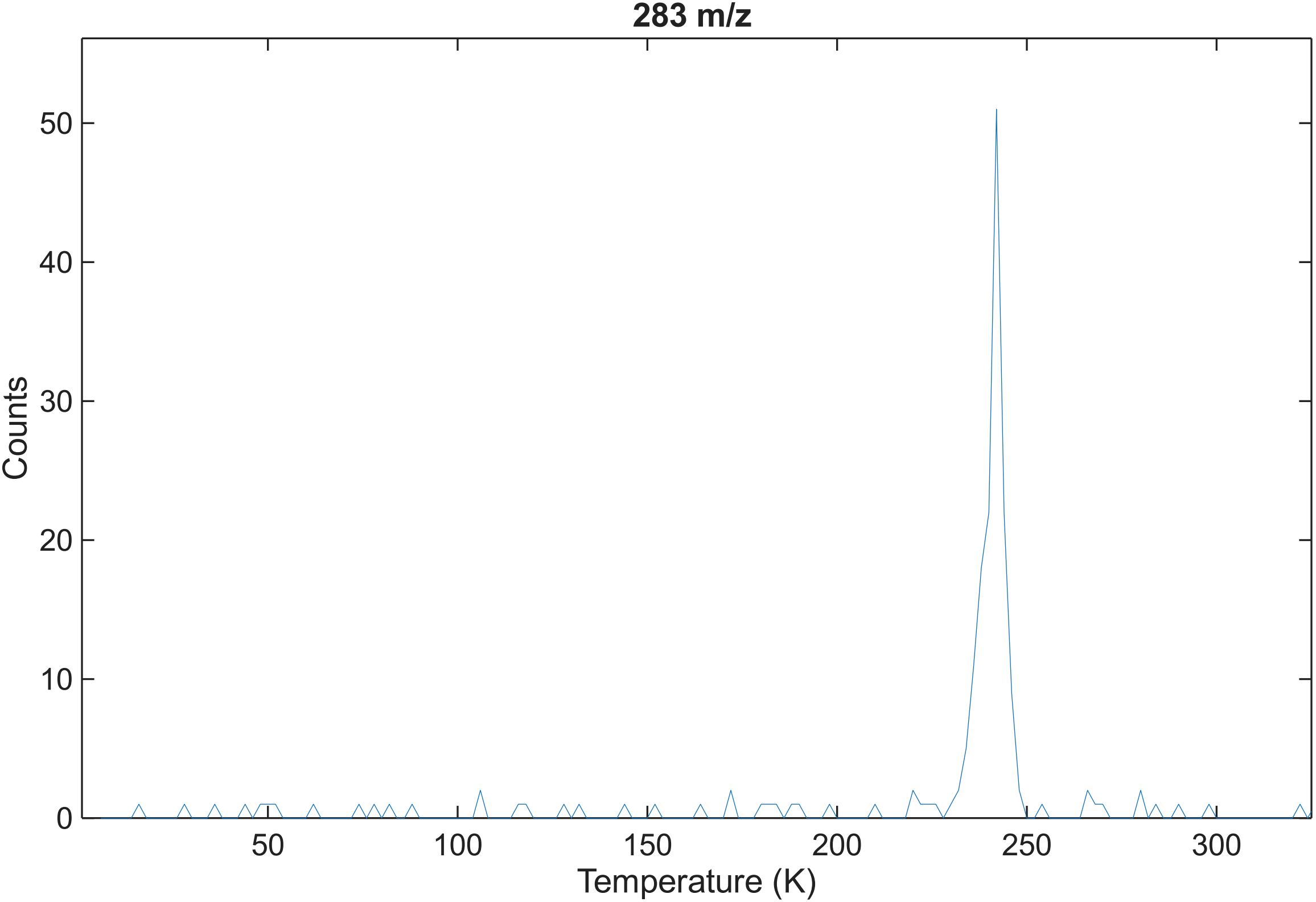
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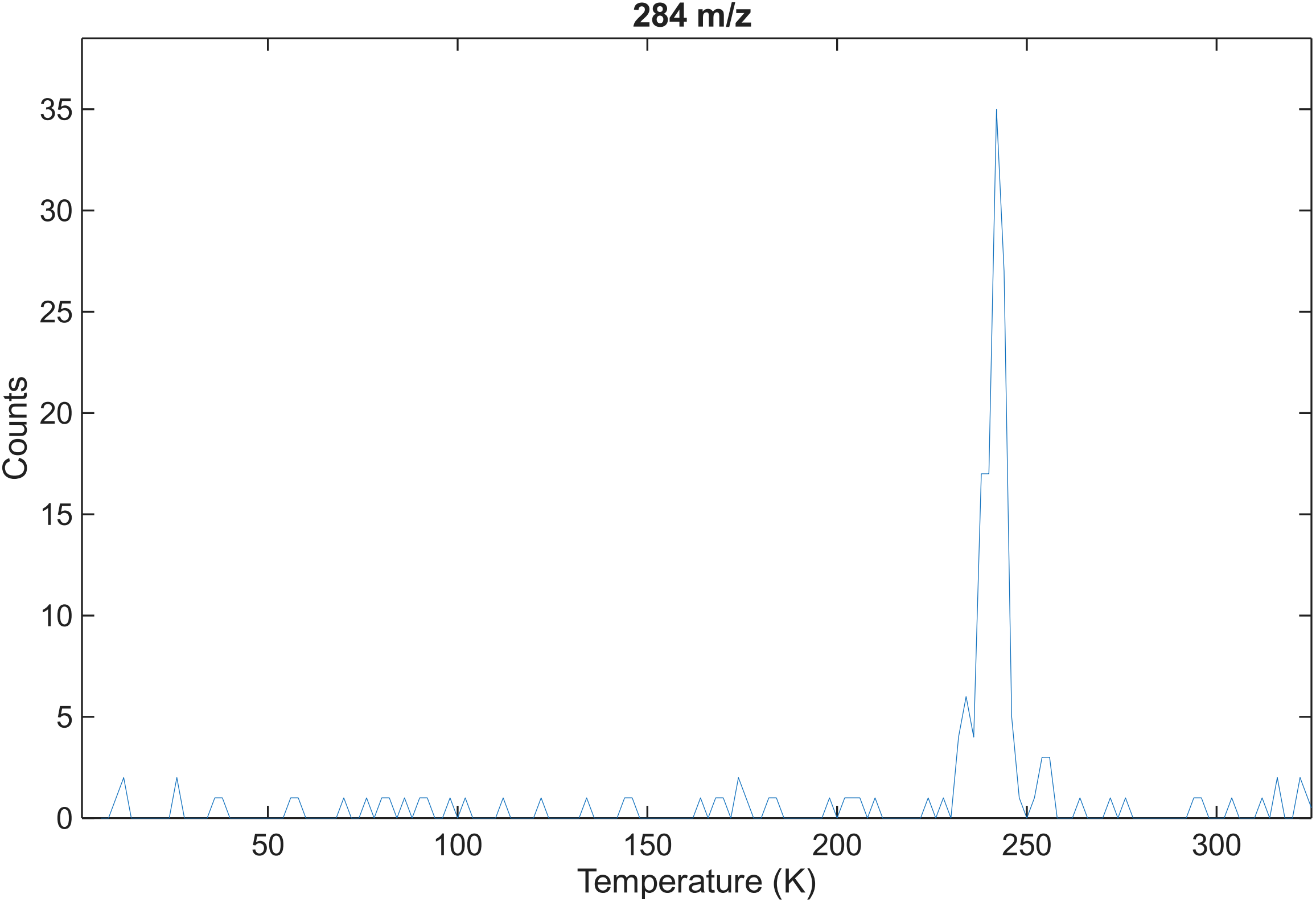
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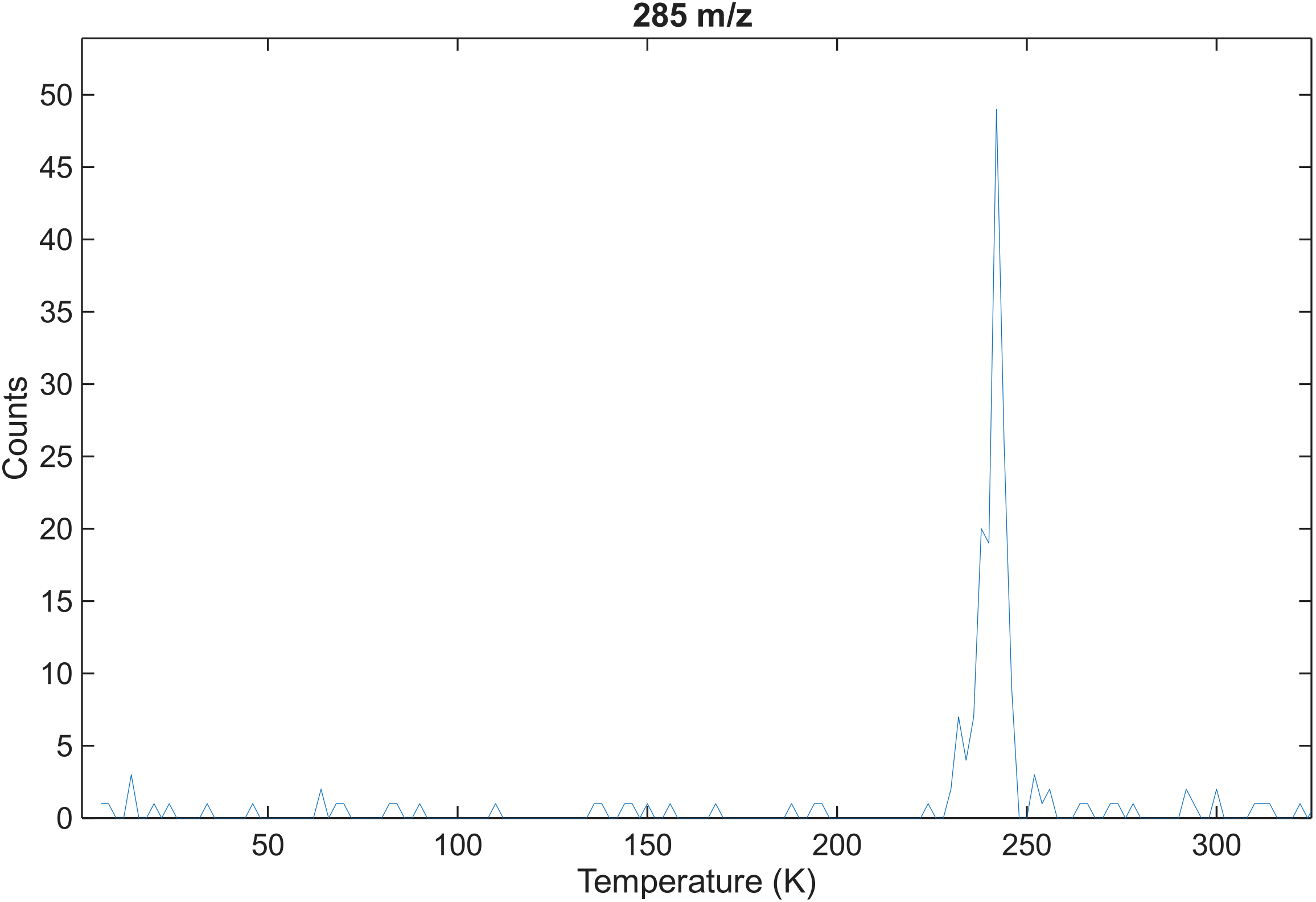
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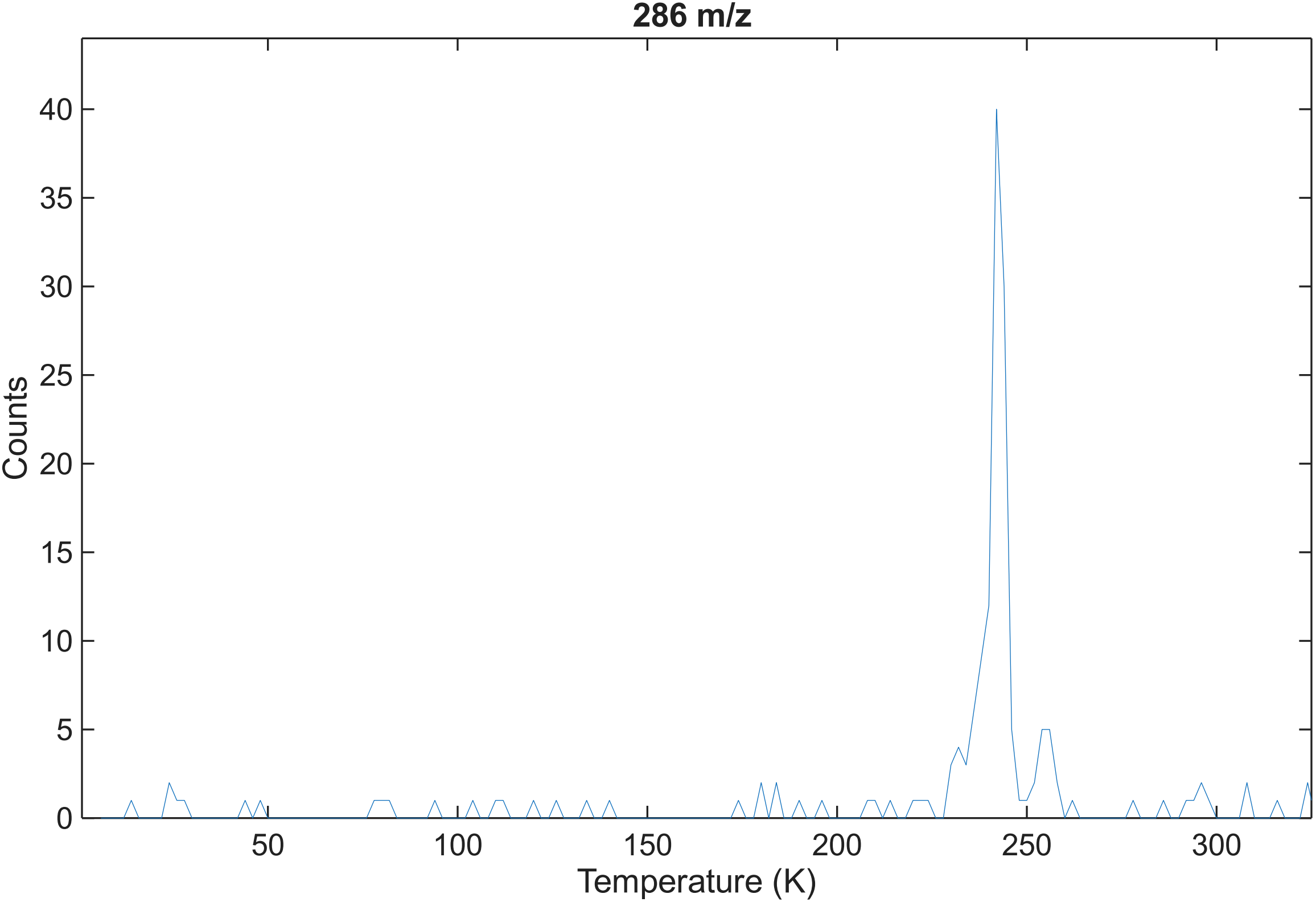
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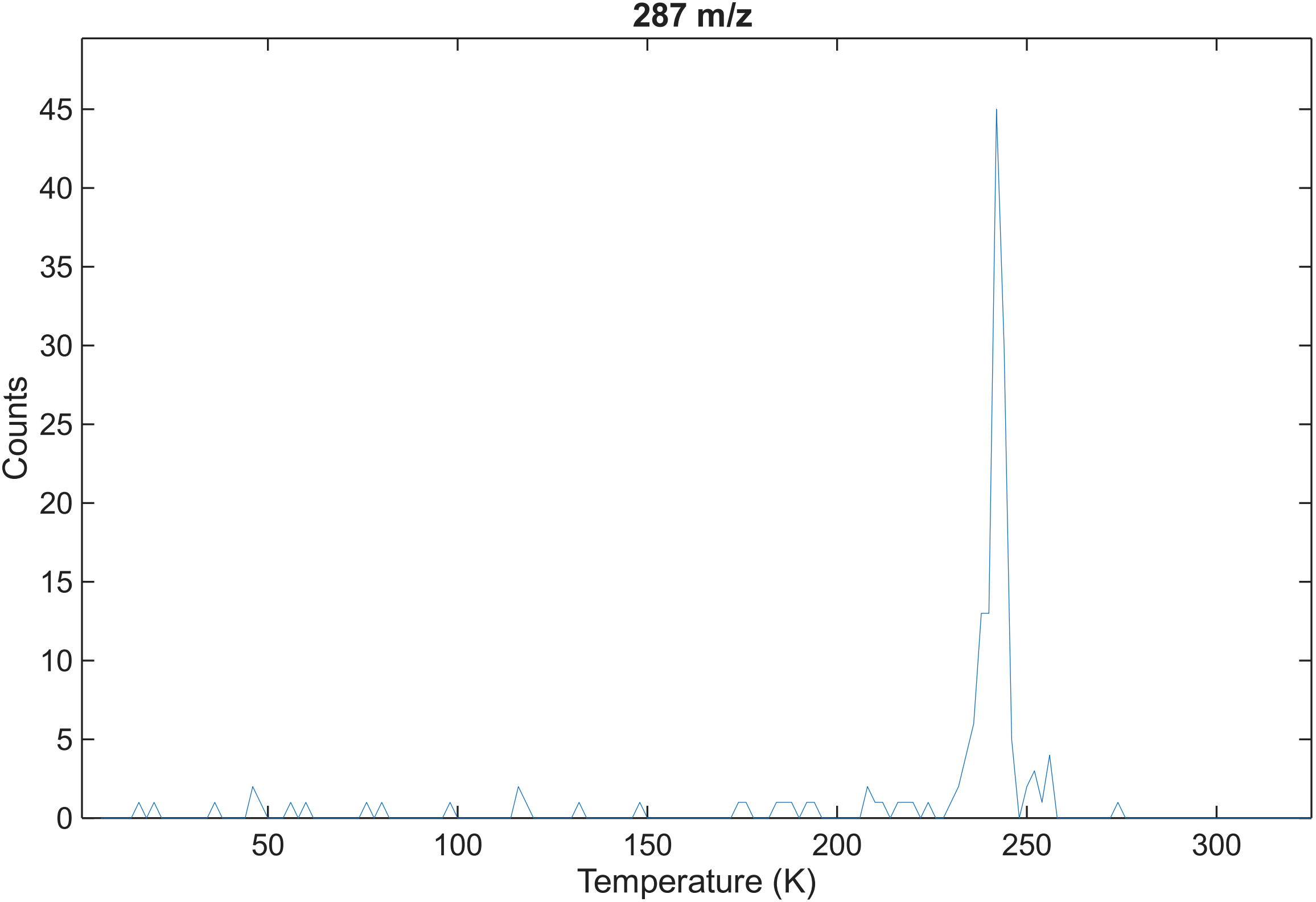
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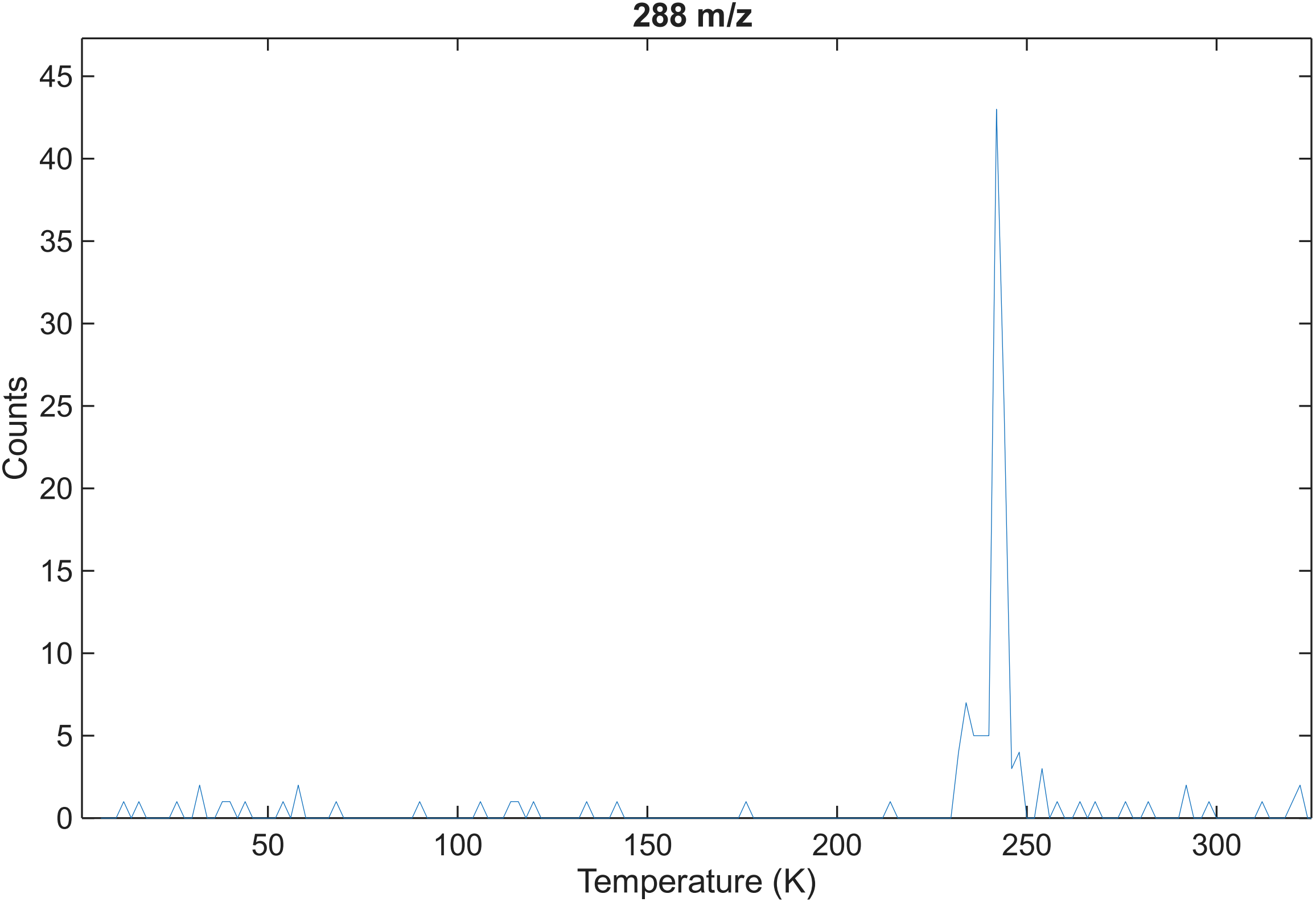
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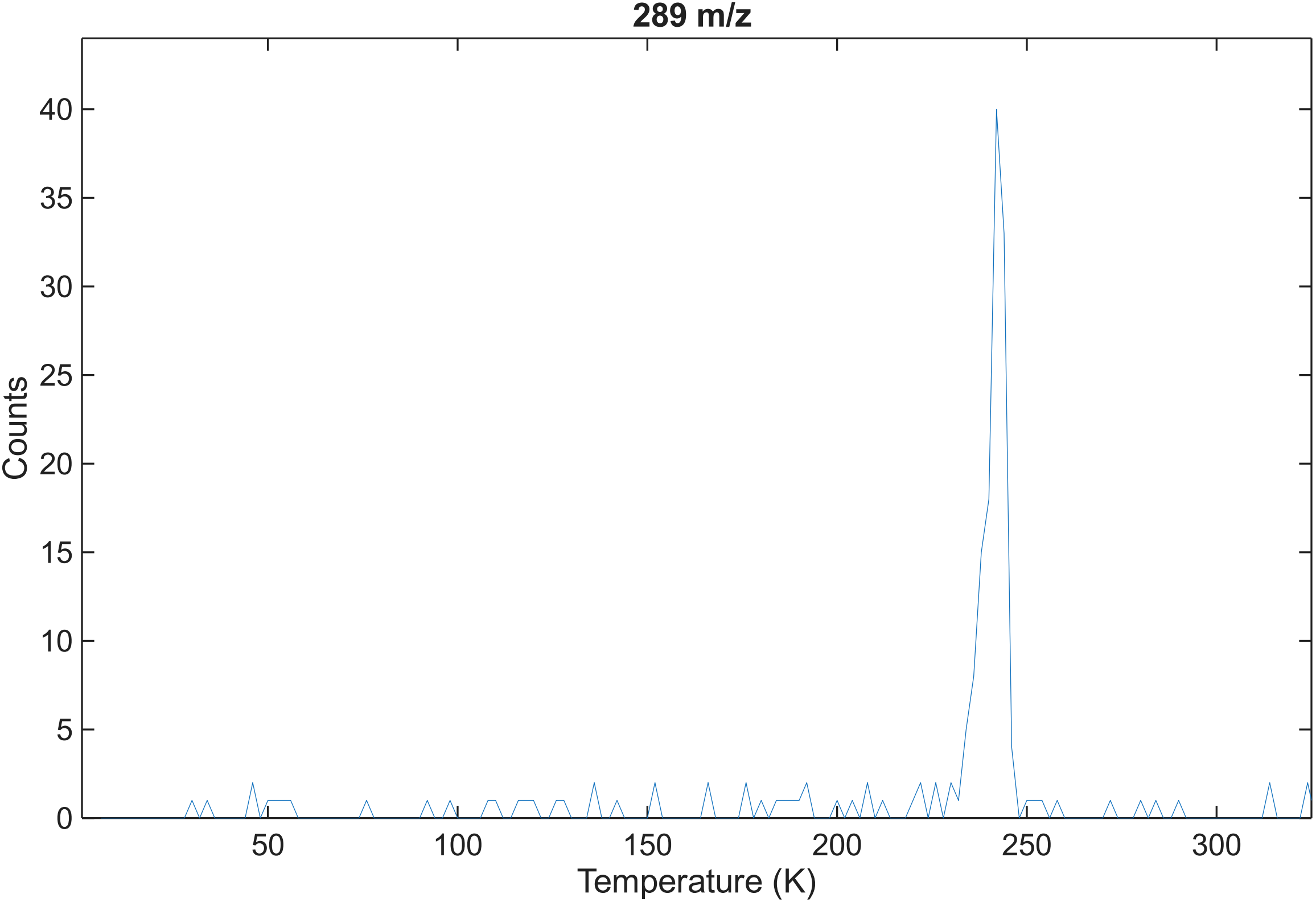
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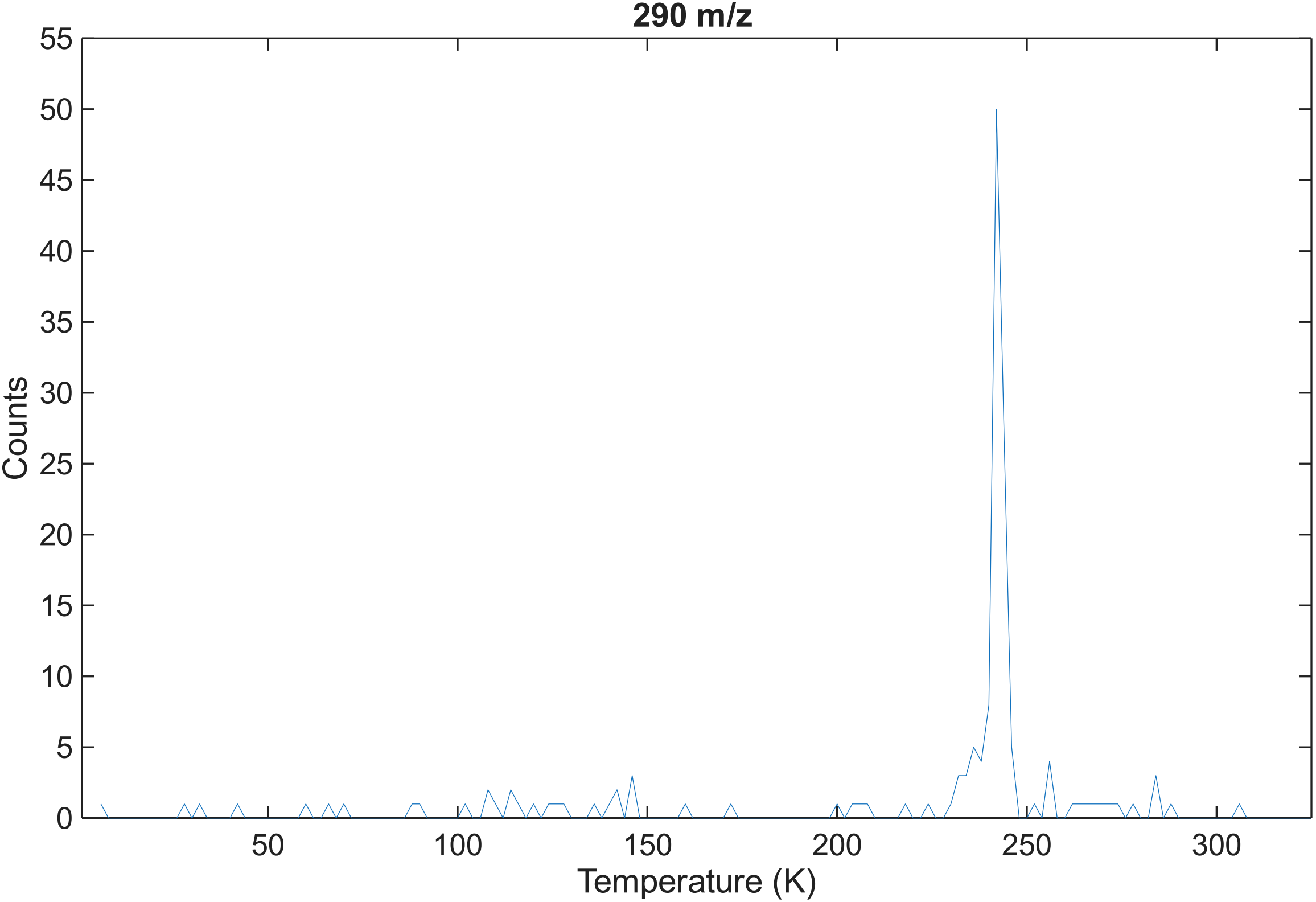
290 m/z
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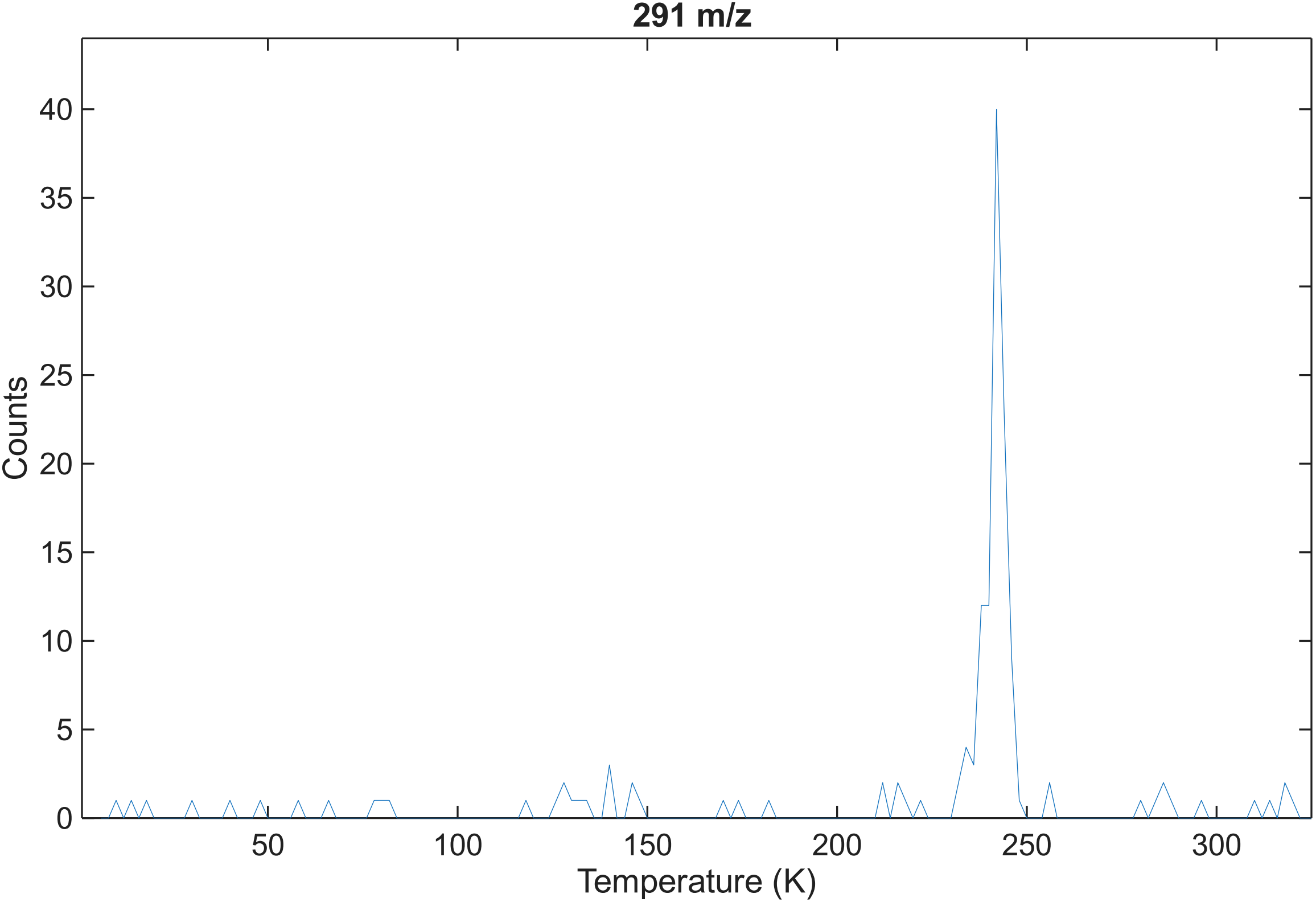
Temperature (K)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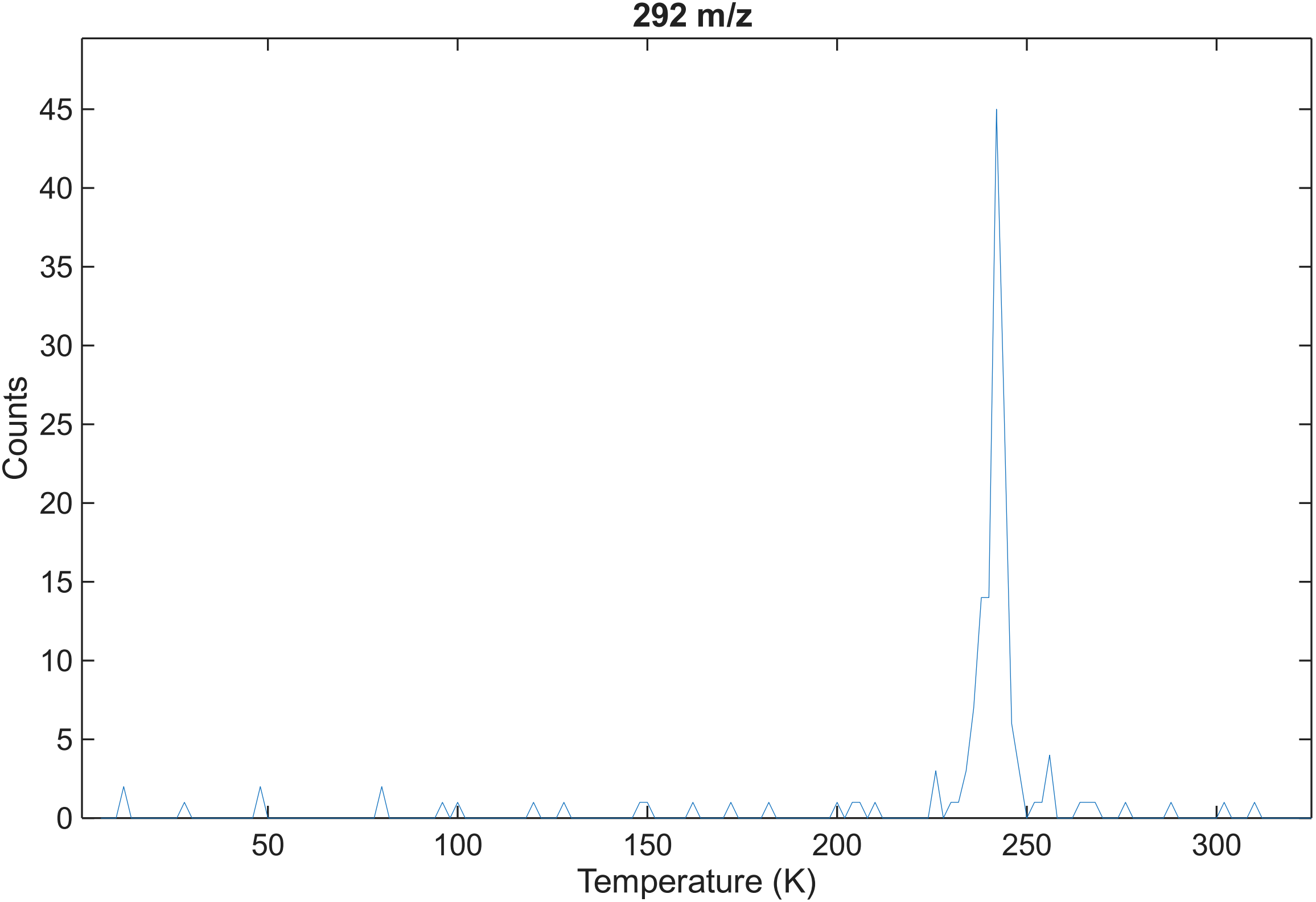
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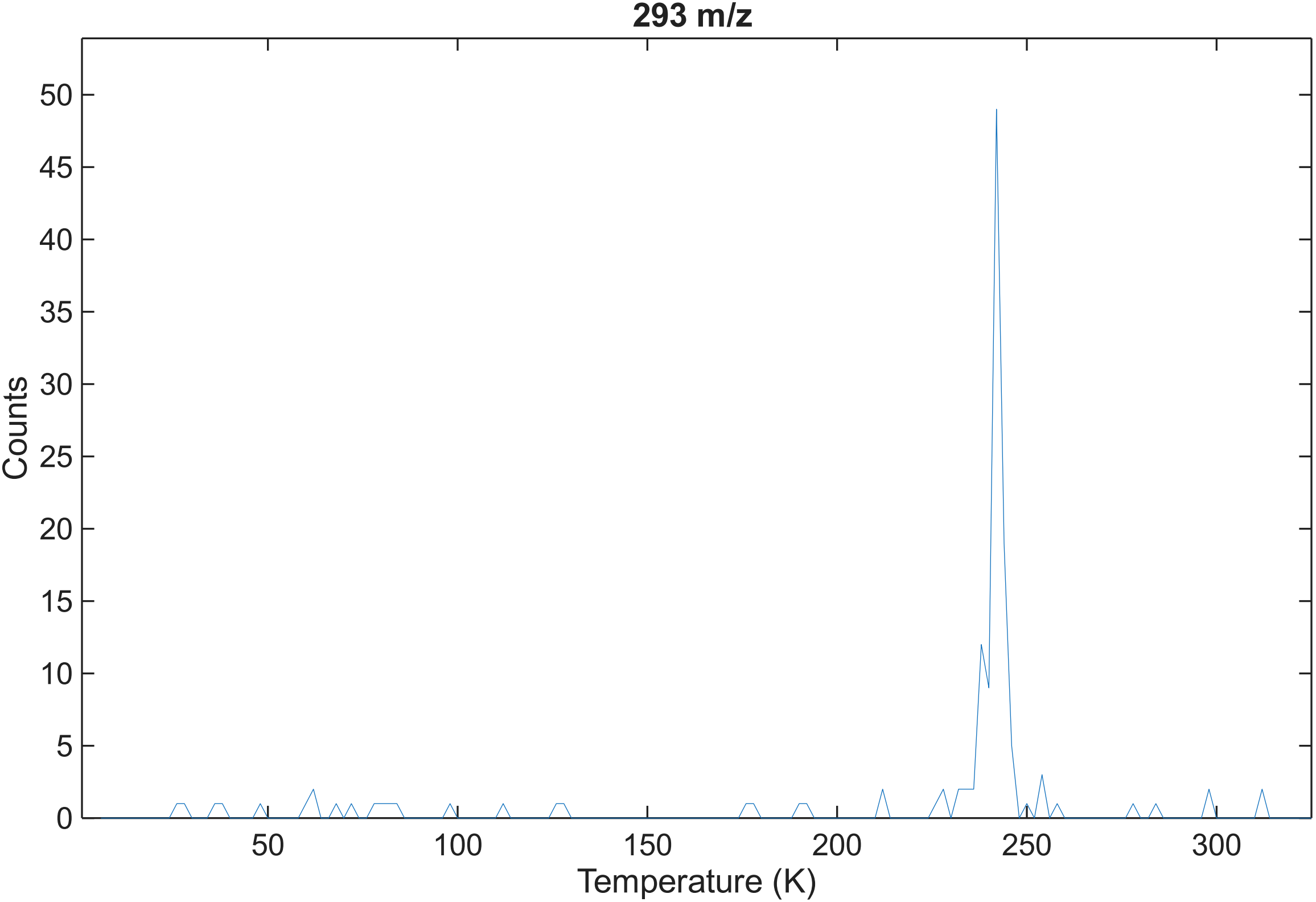
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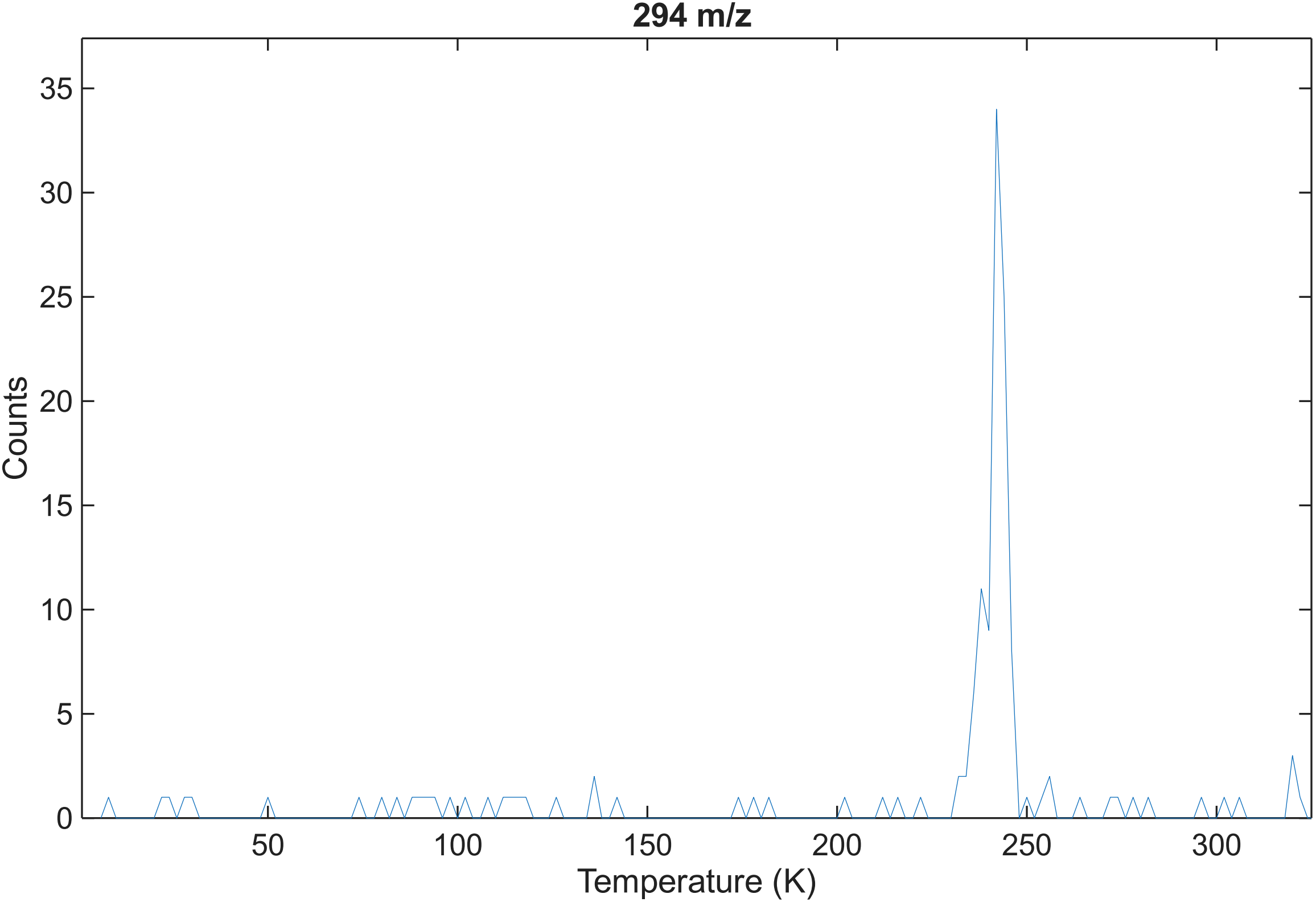
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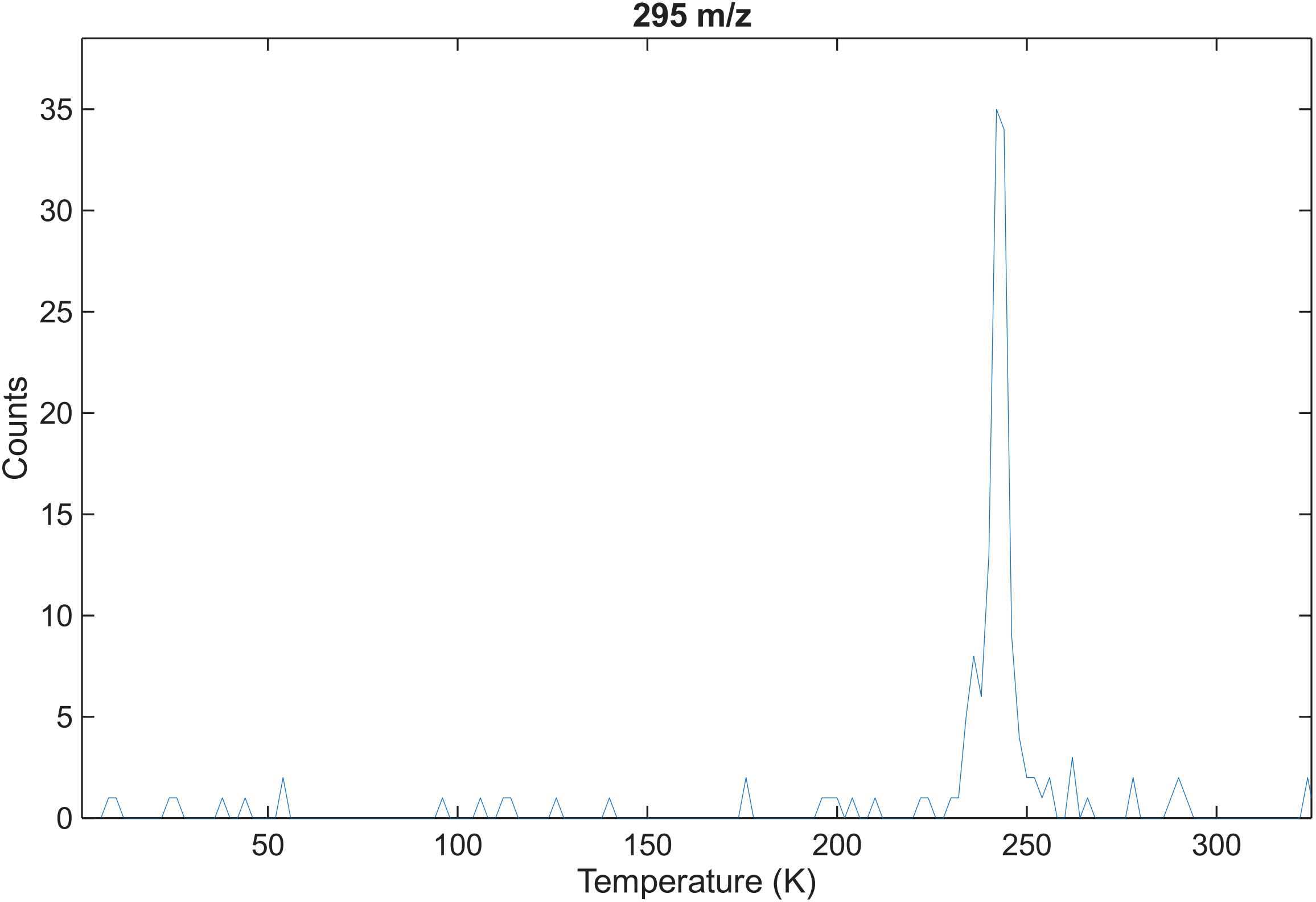
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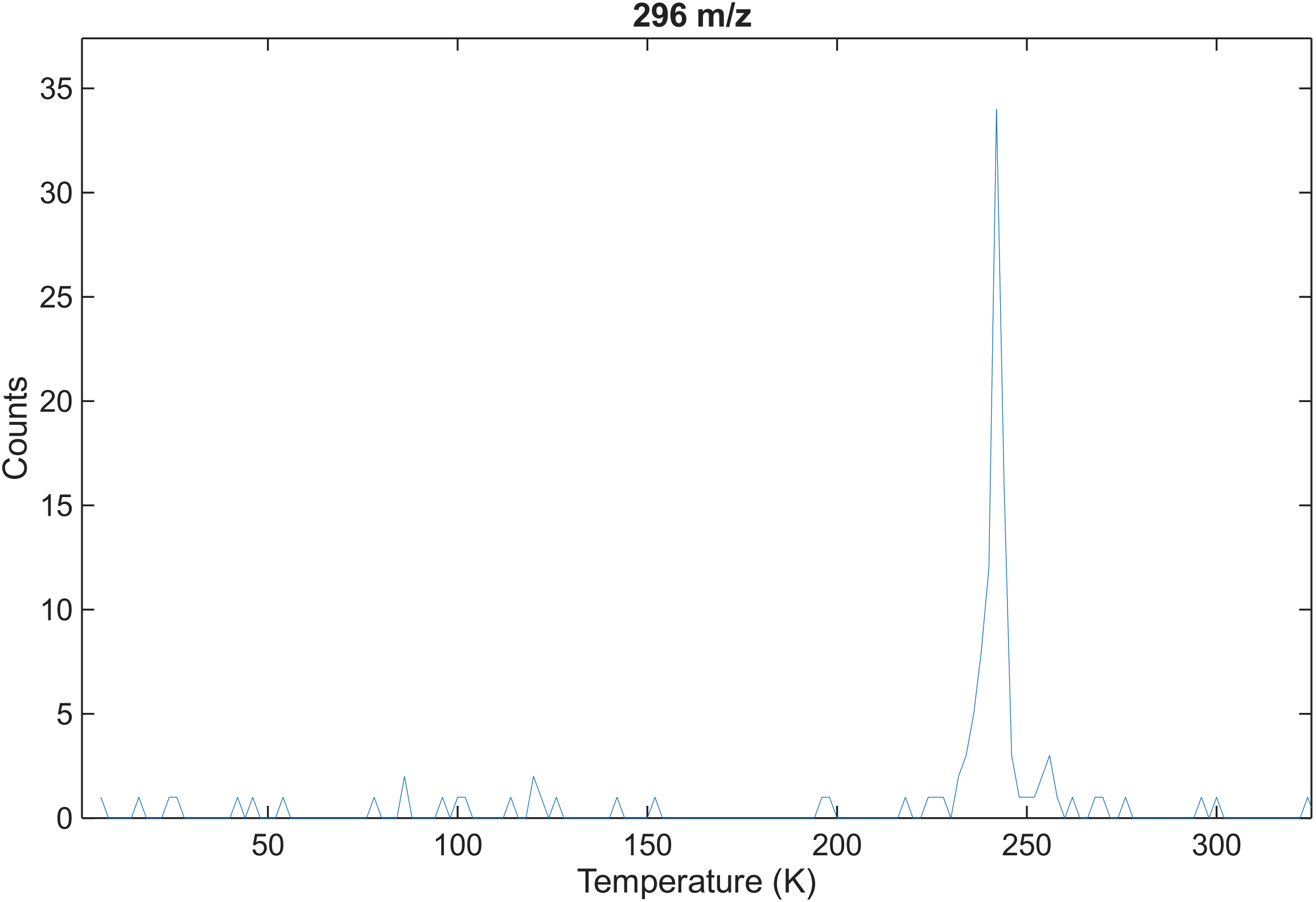
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Temperature (K)
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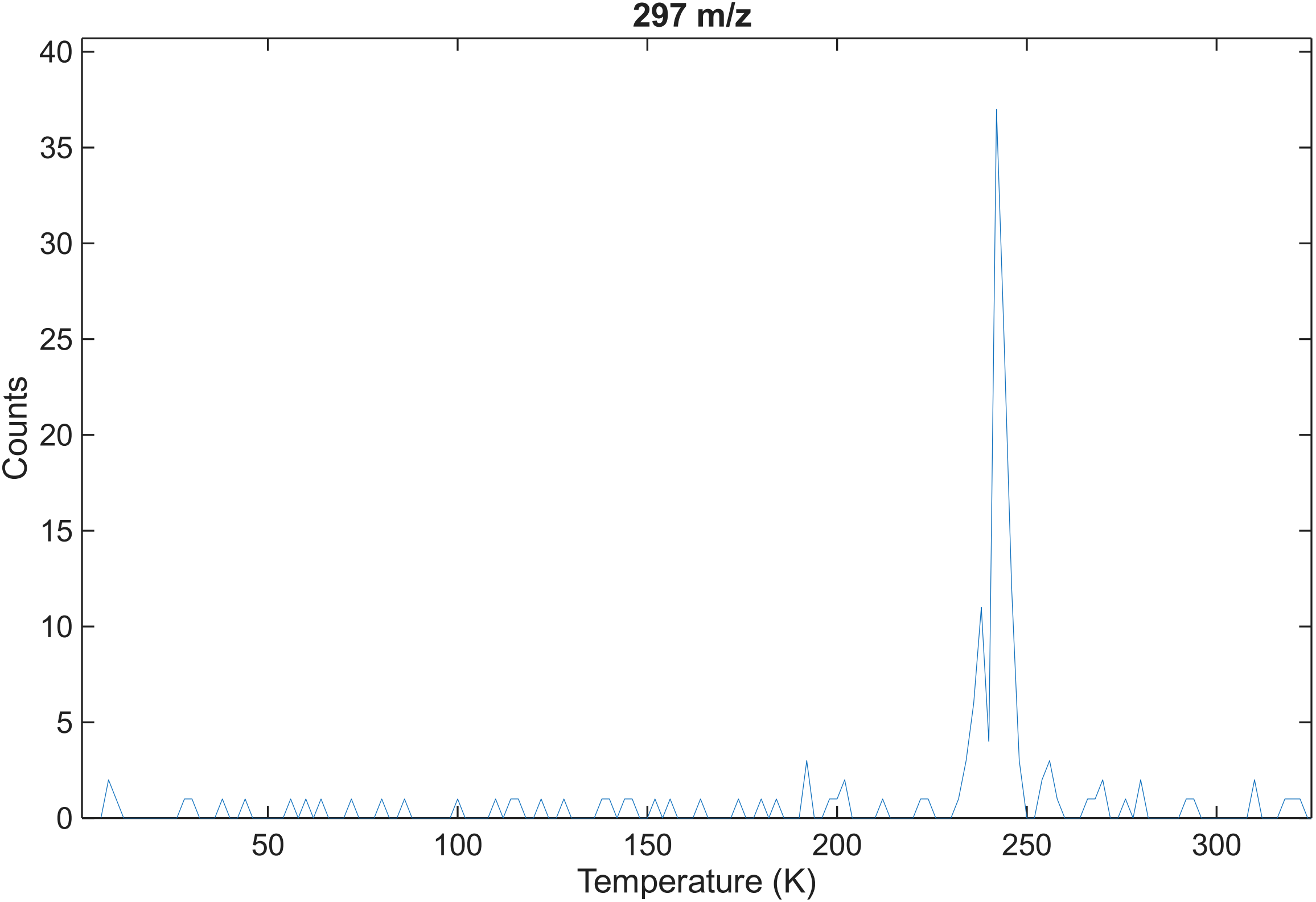
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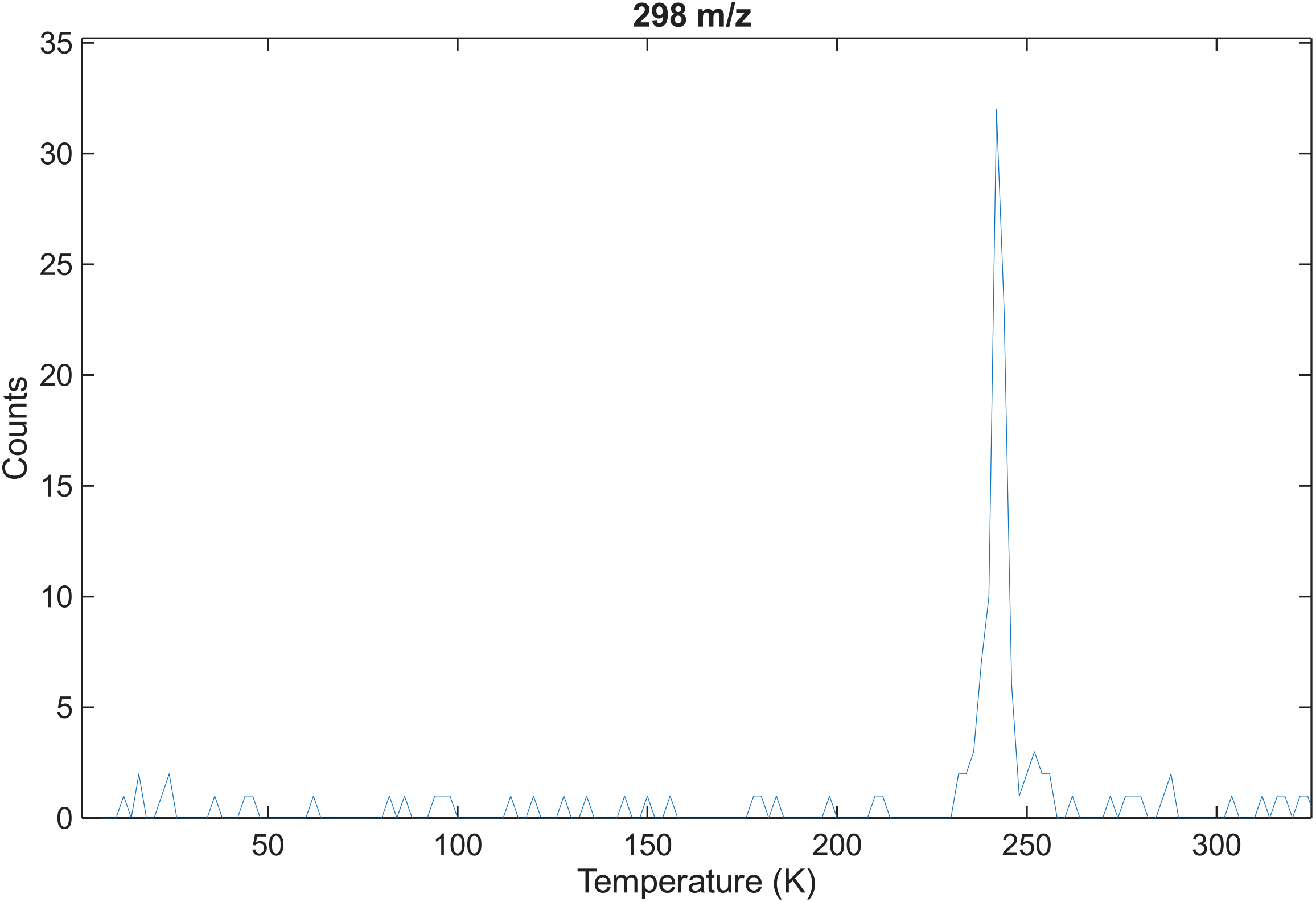
298 m/z
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Counts
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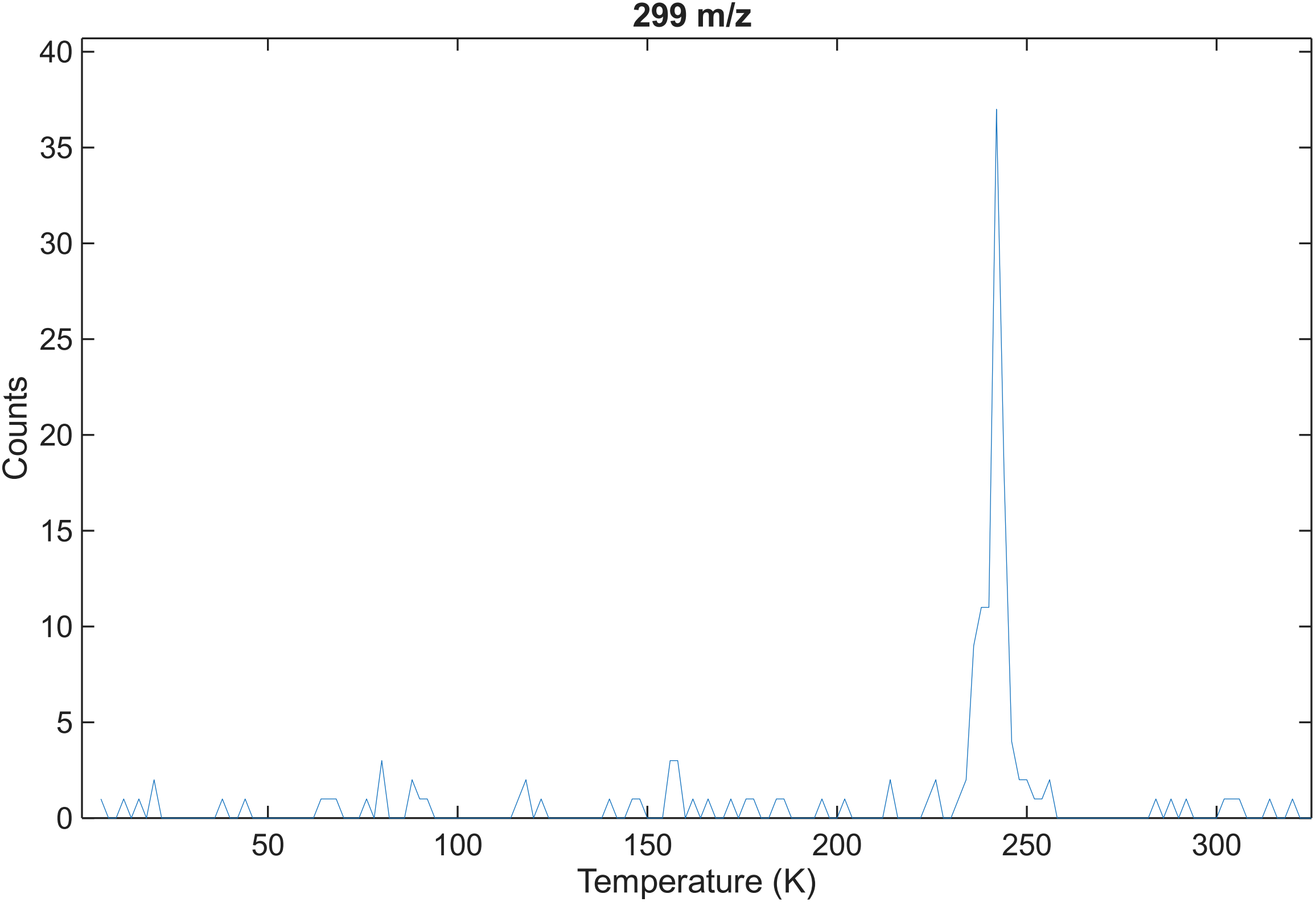
Temperature (K)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Counts
Temperature (K)
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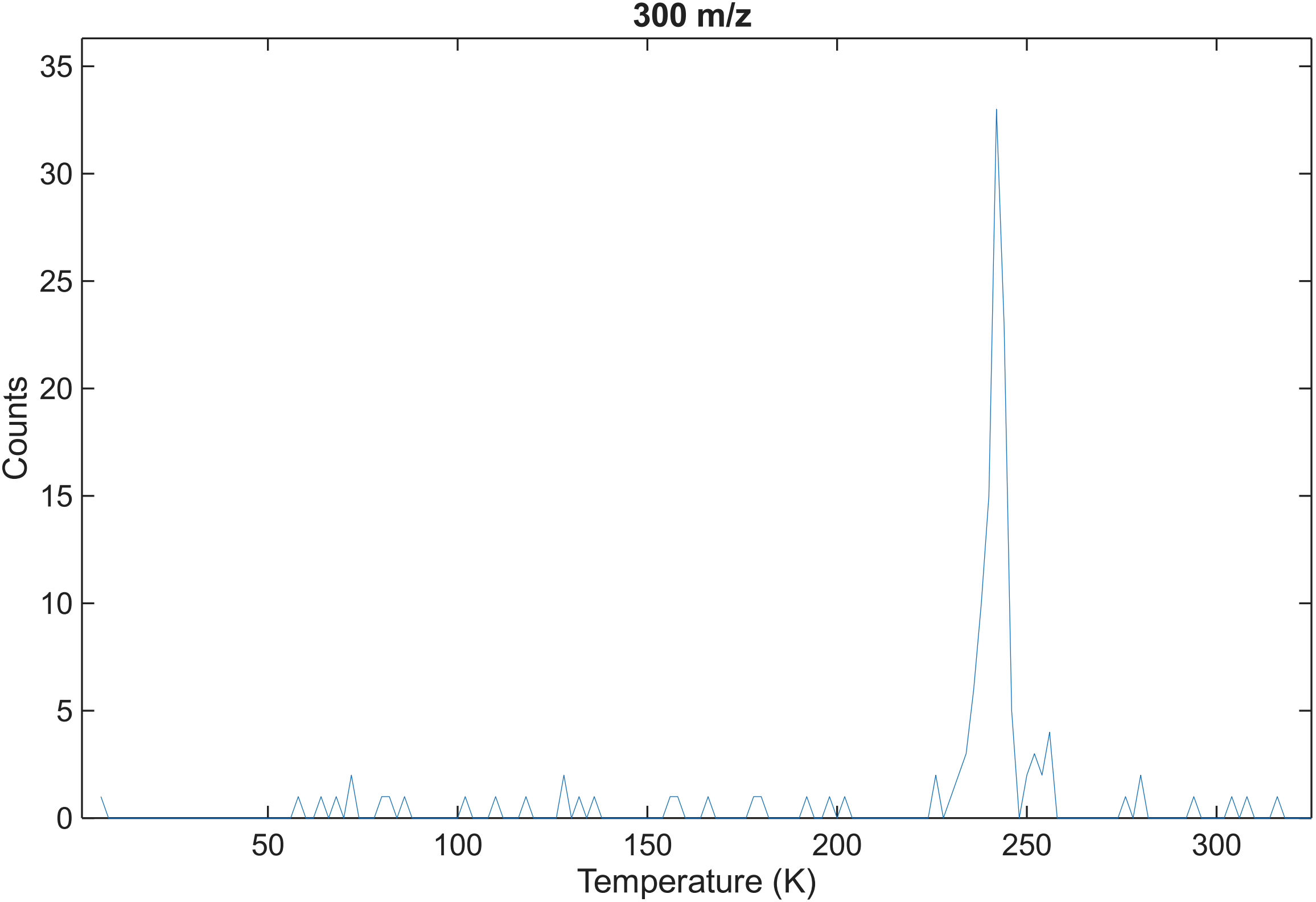
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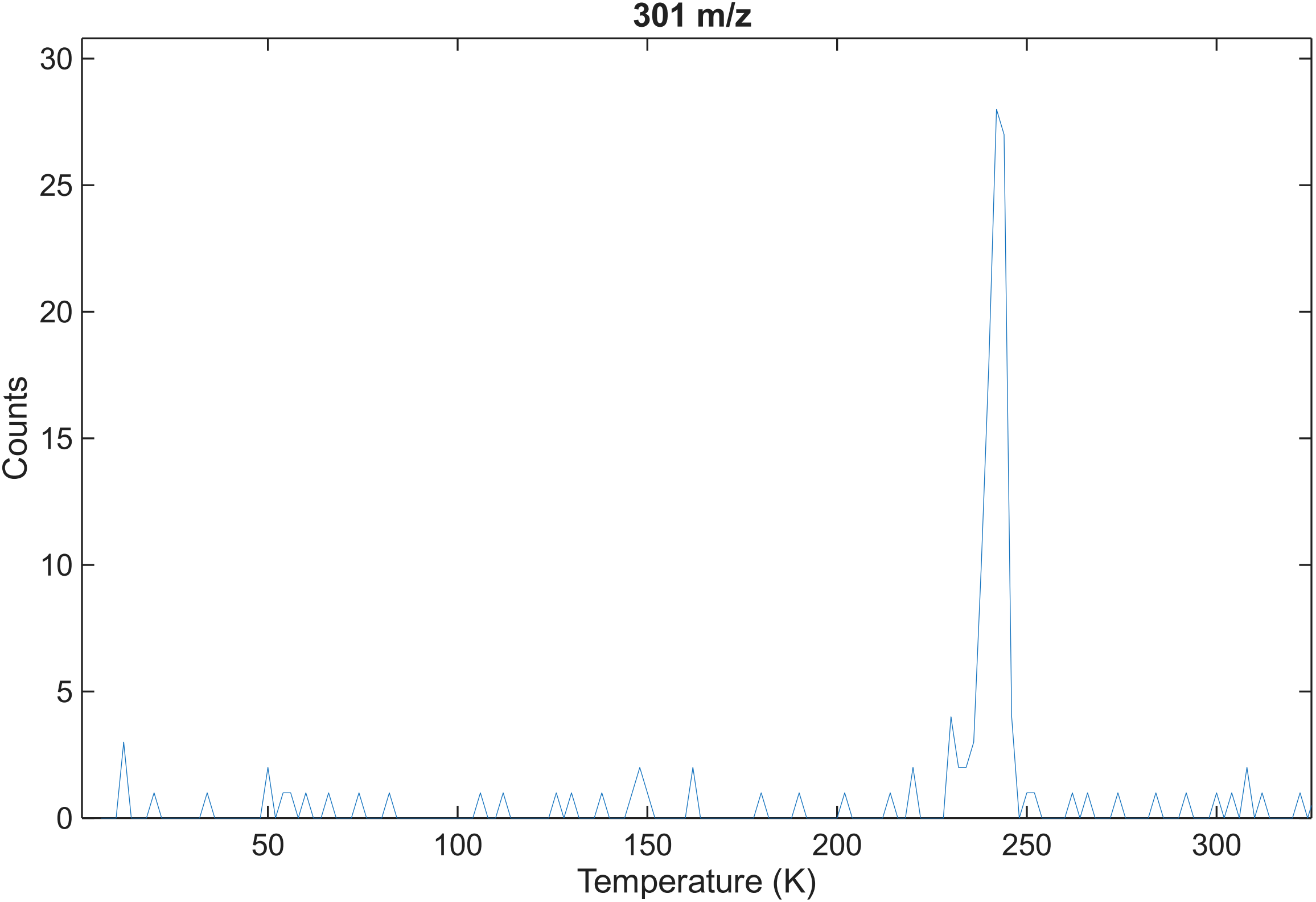
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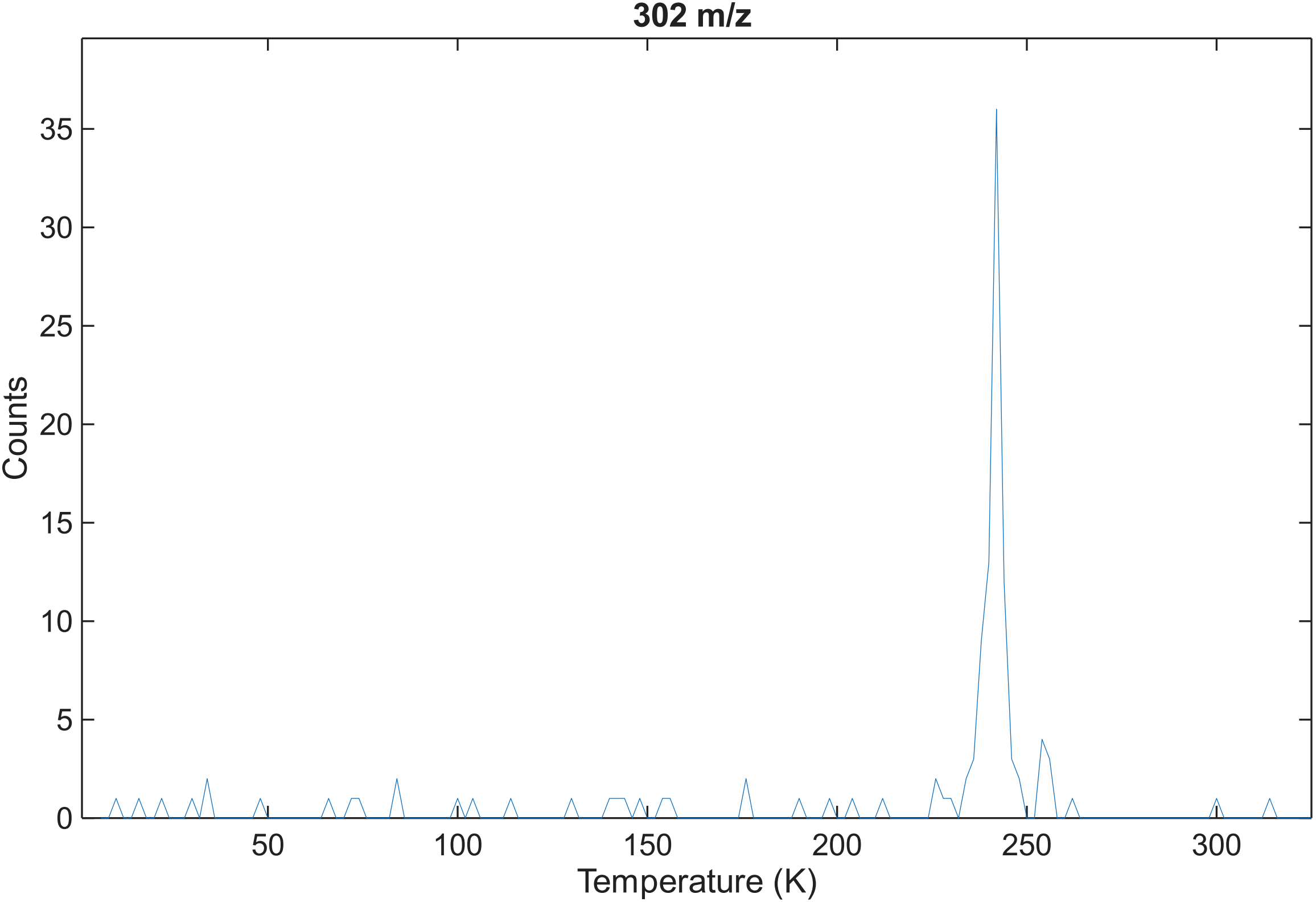
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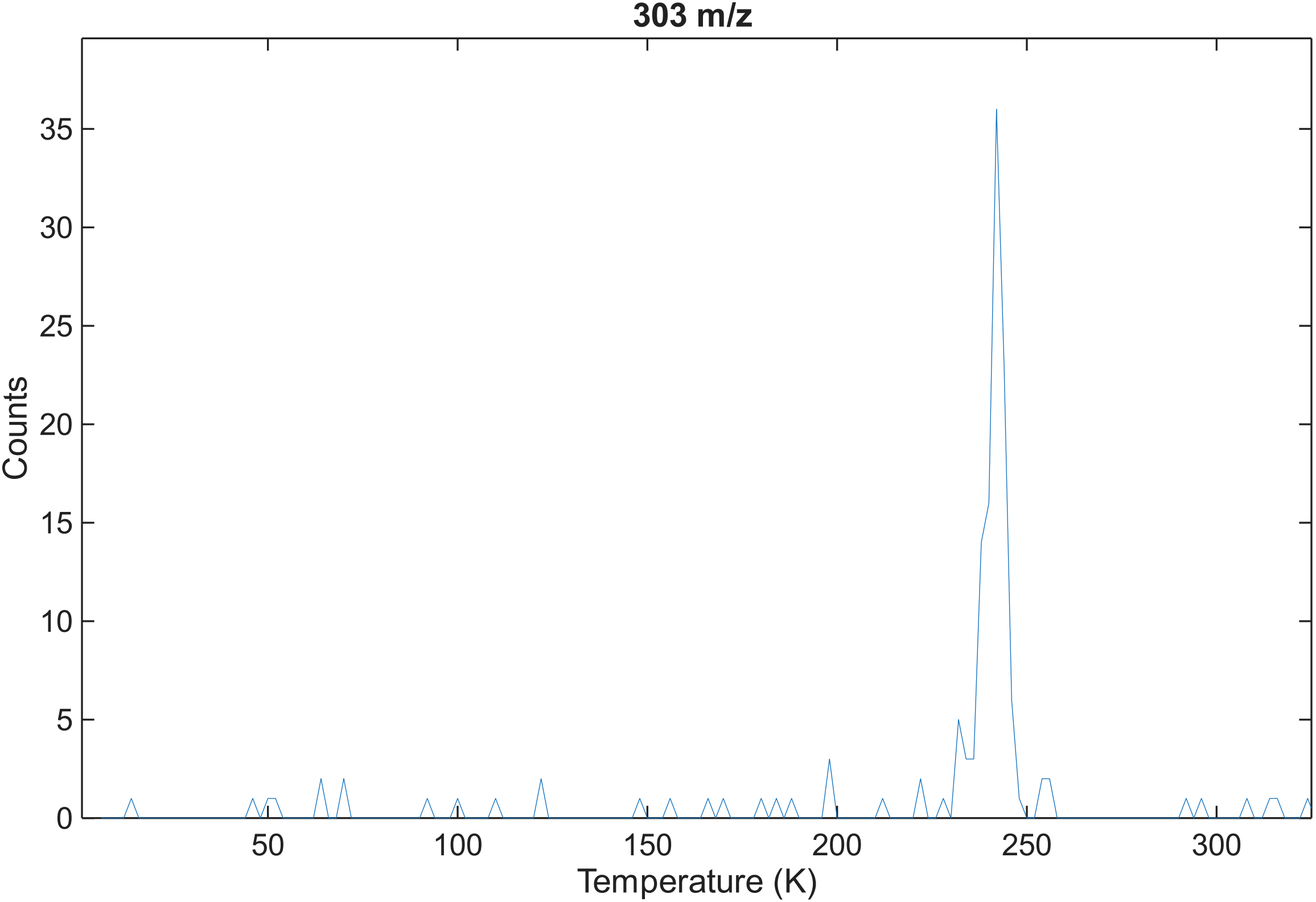
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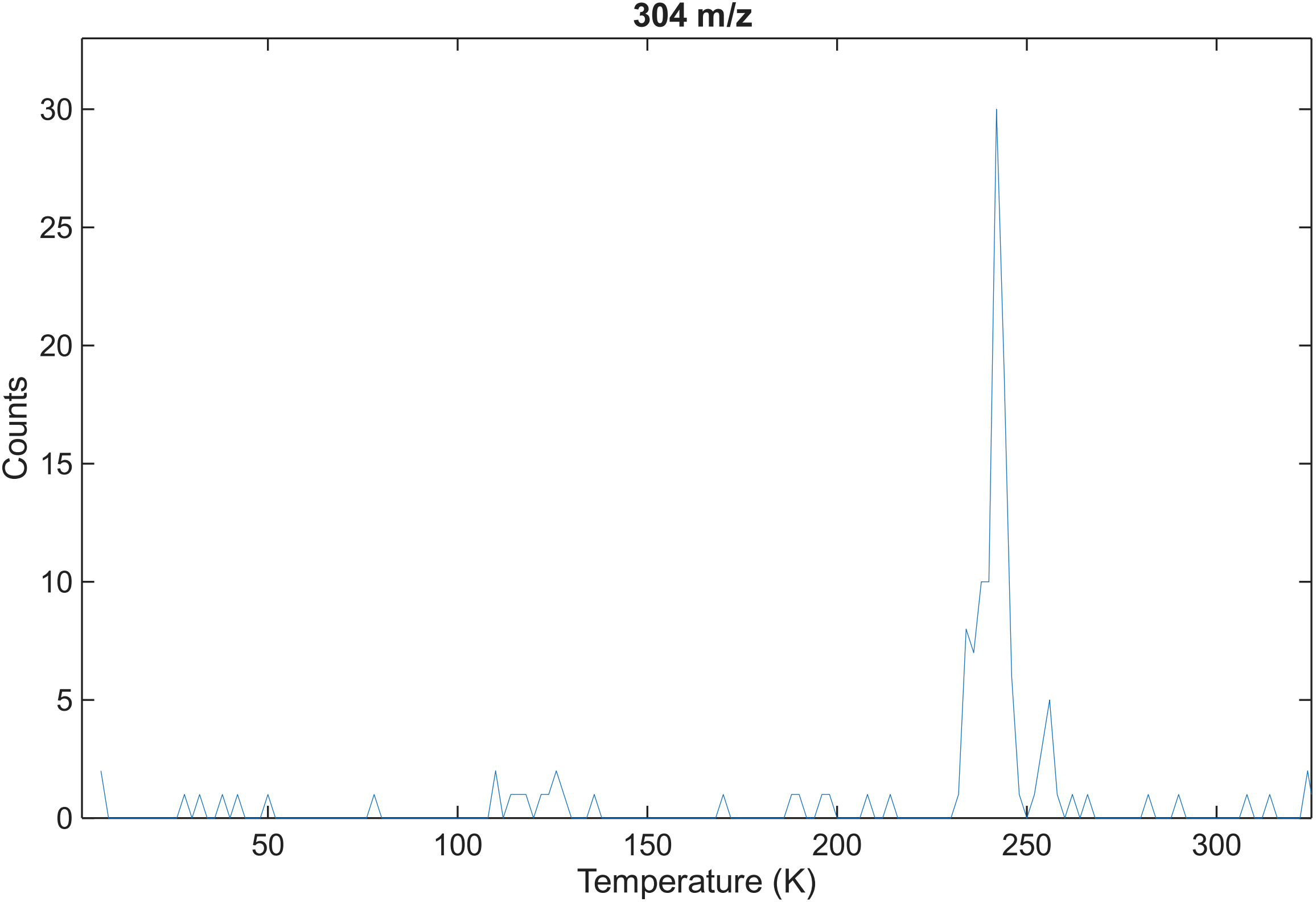
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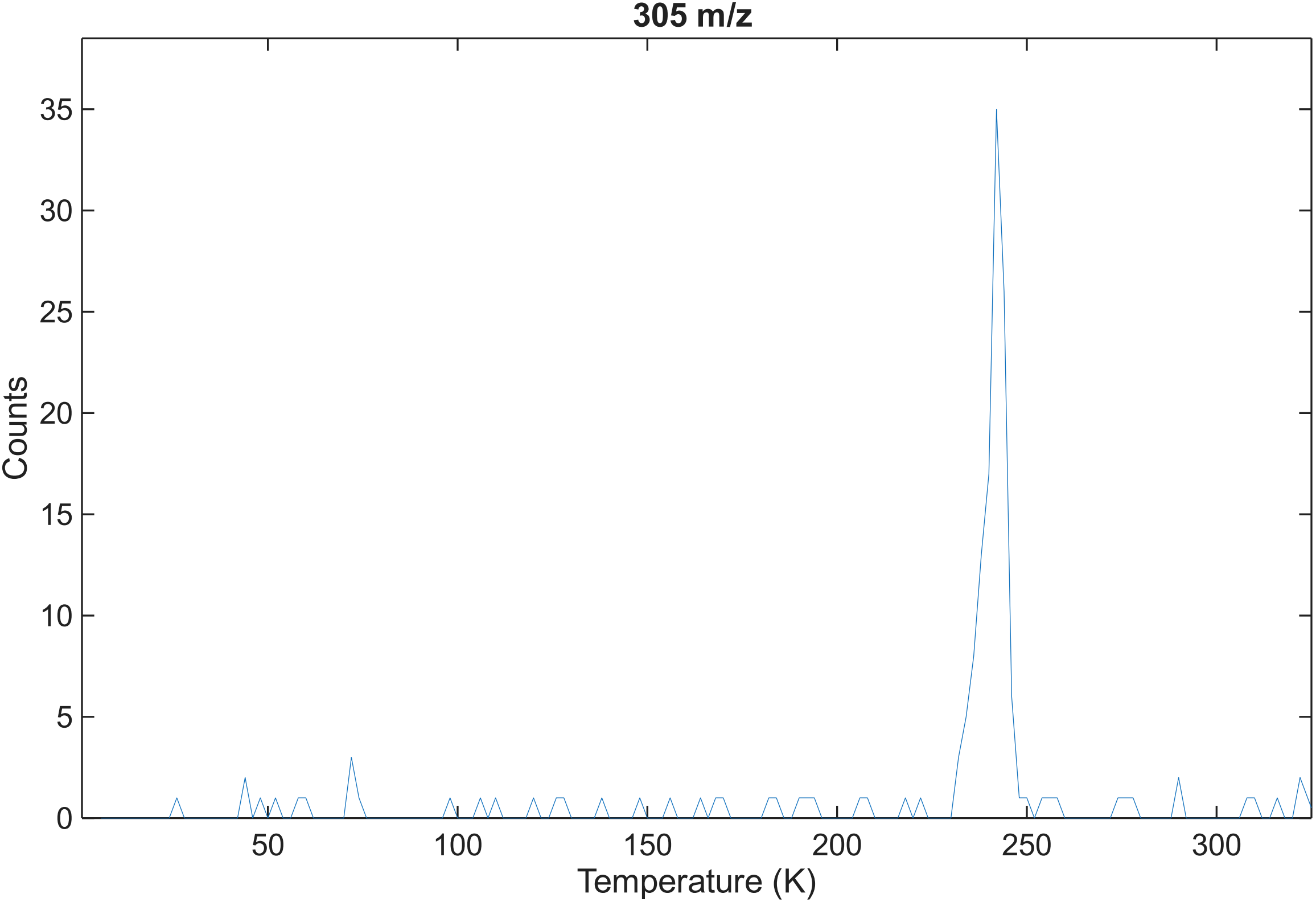
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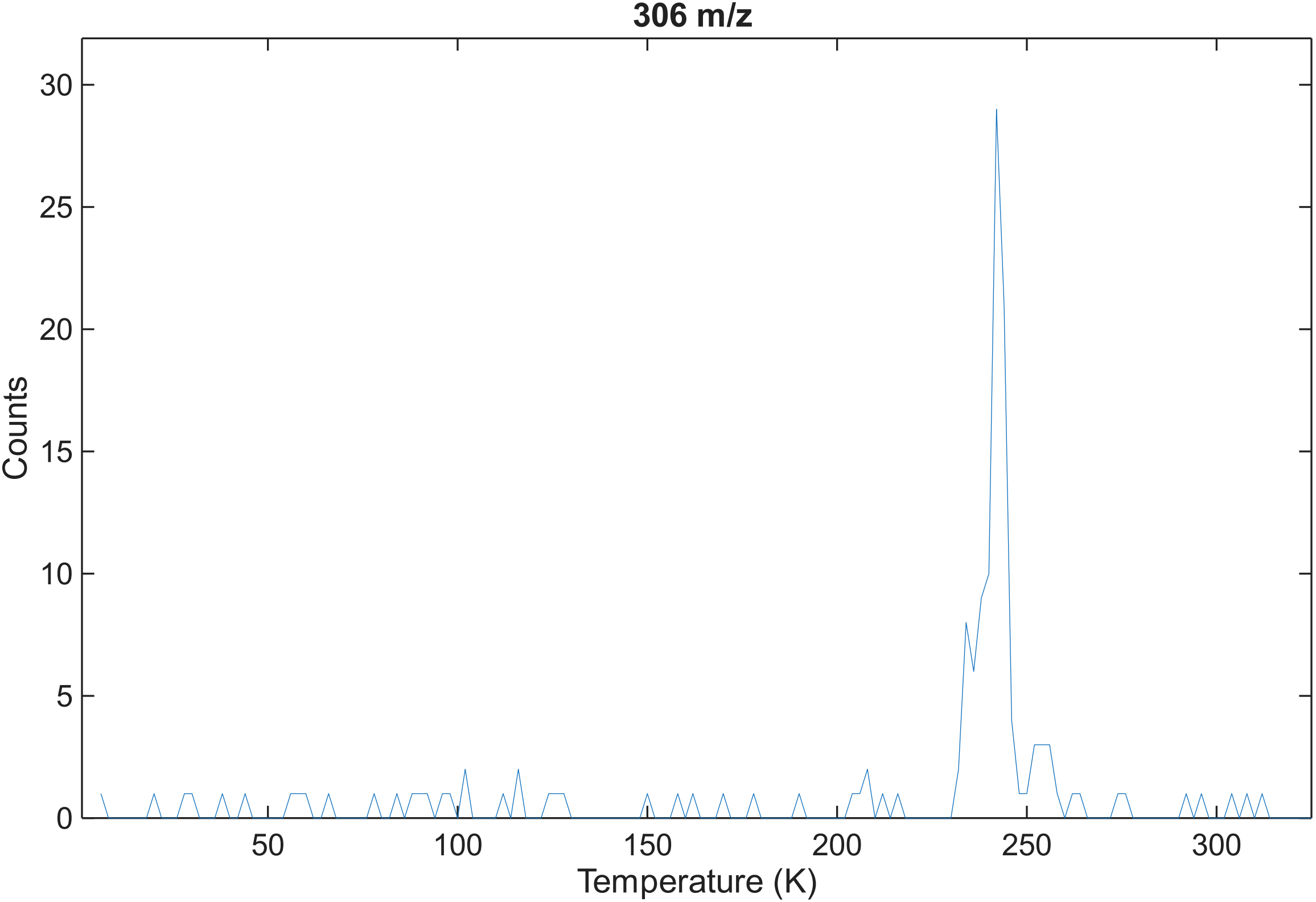
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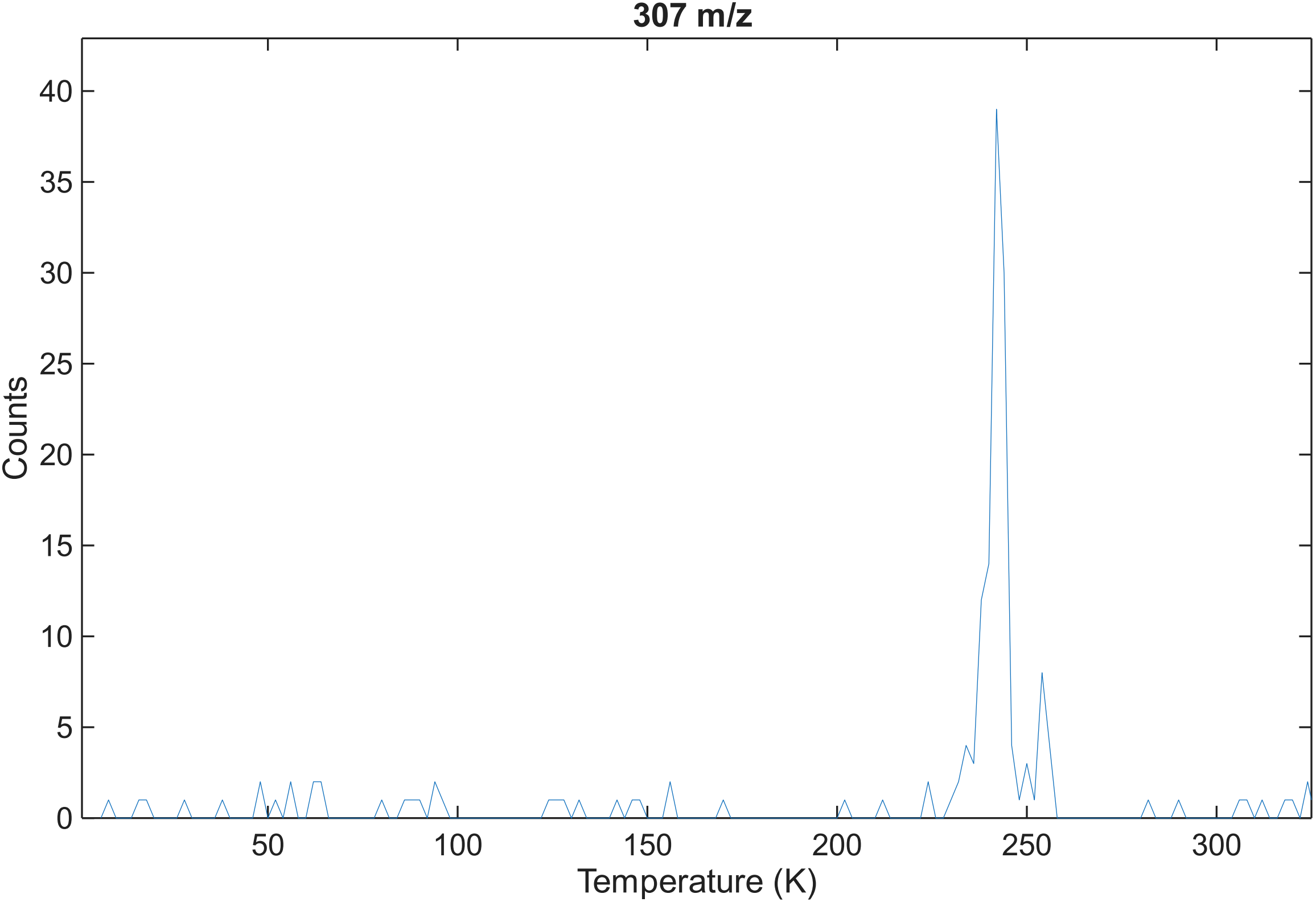
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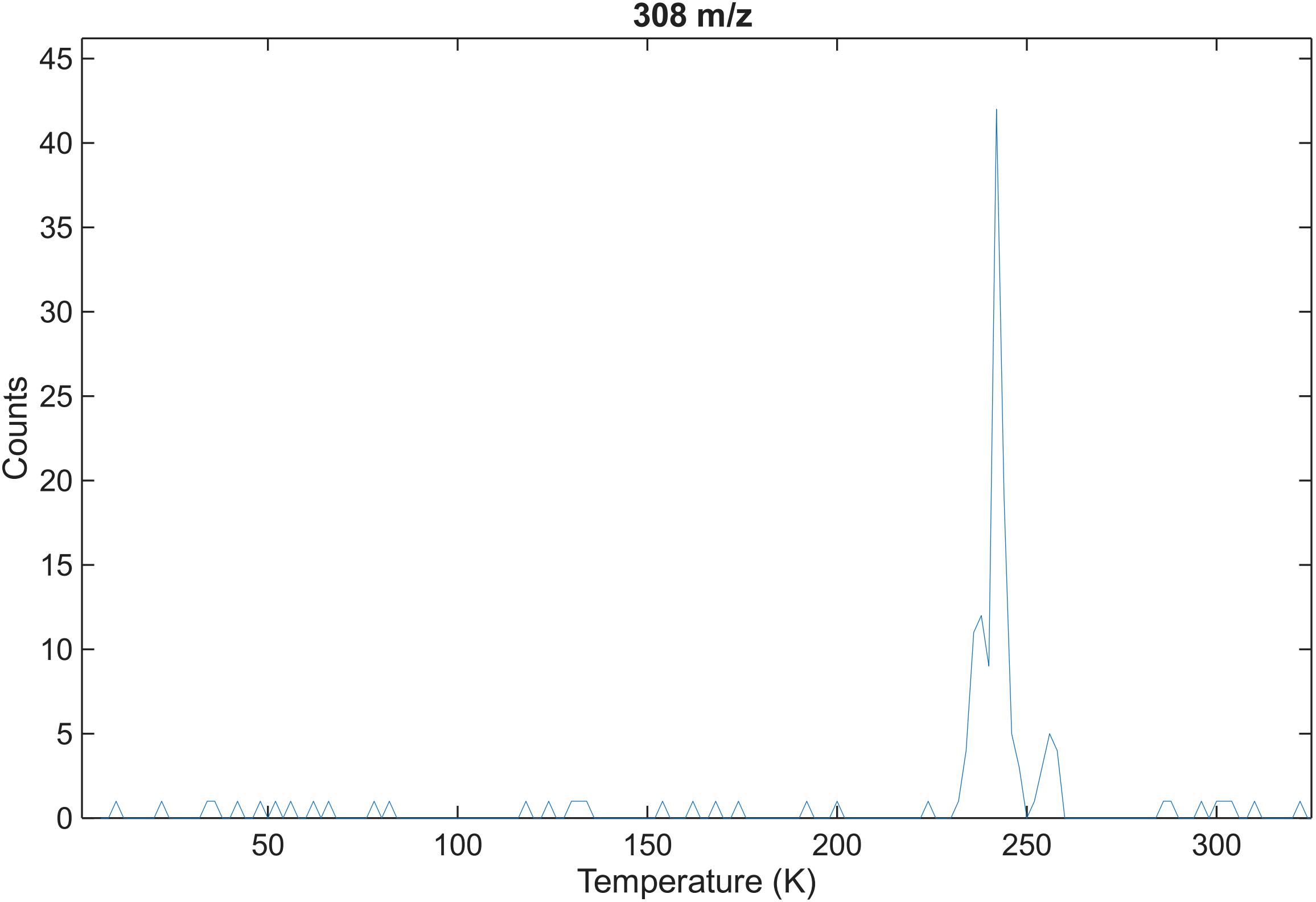
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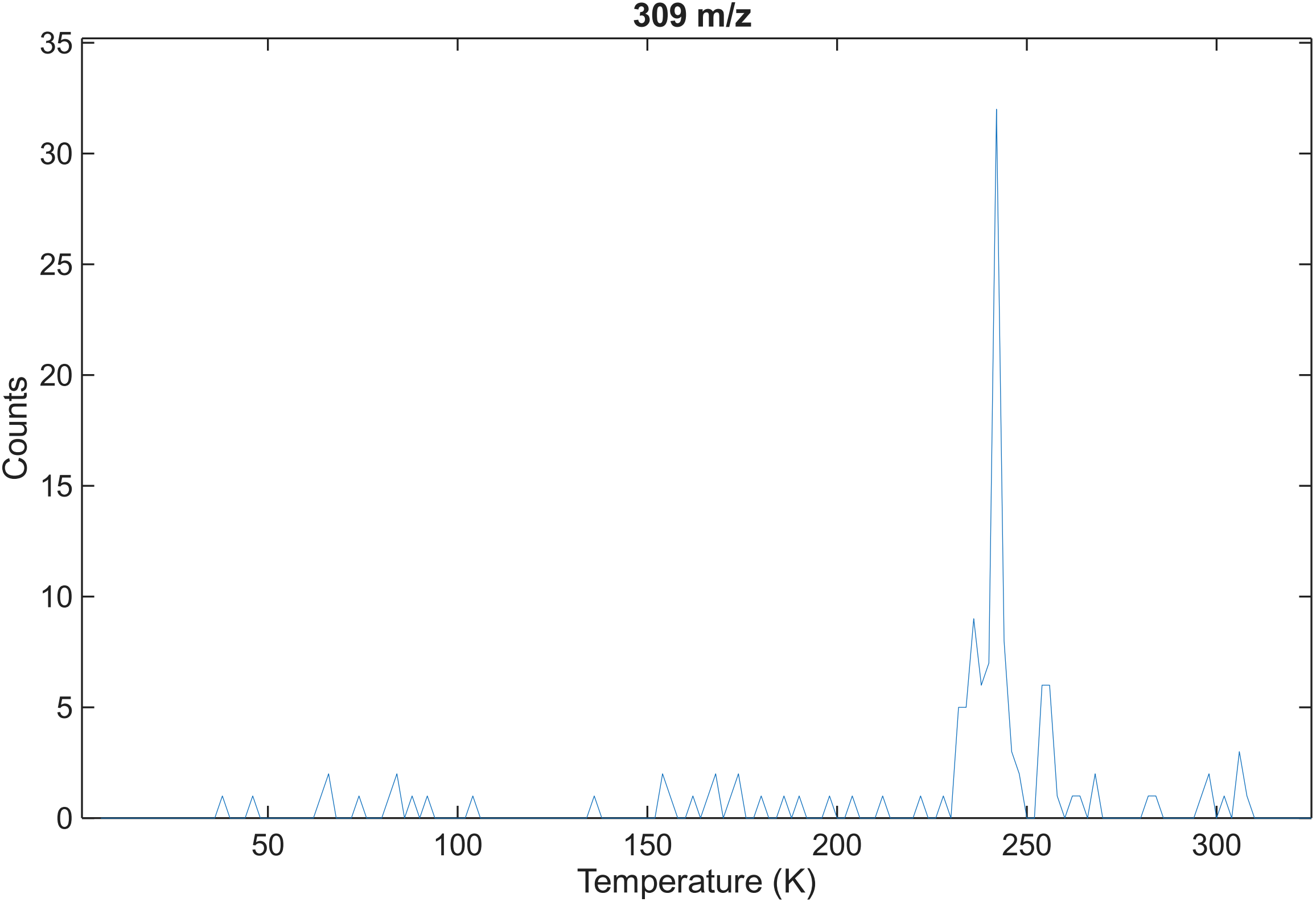
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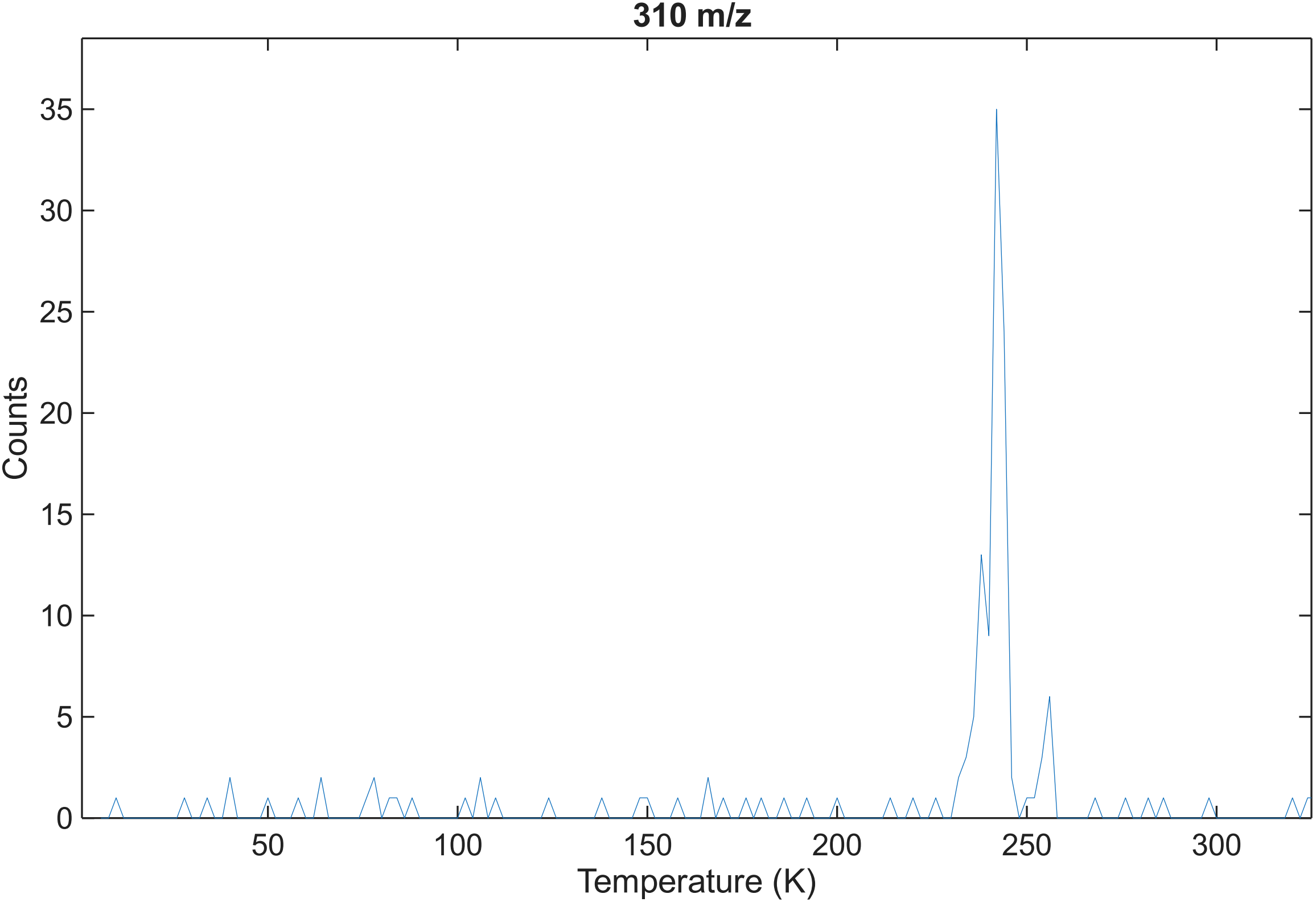
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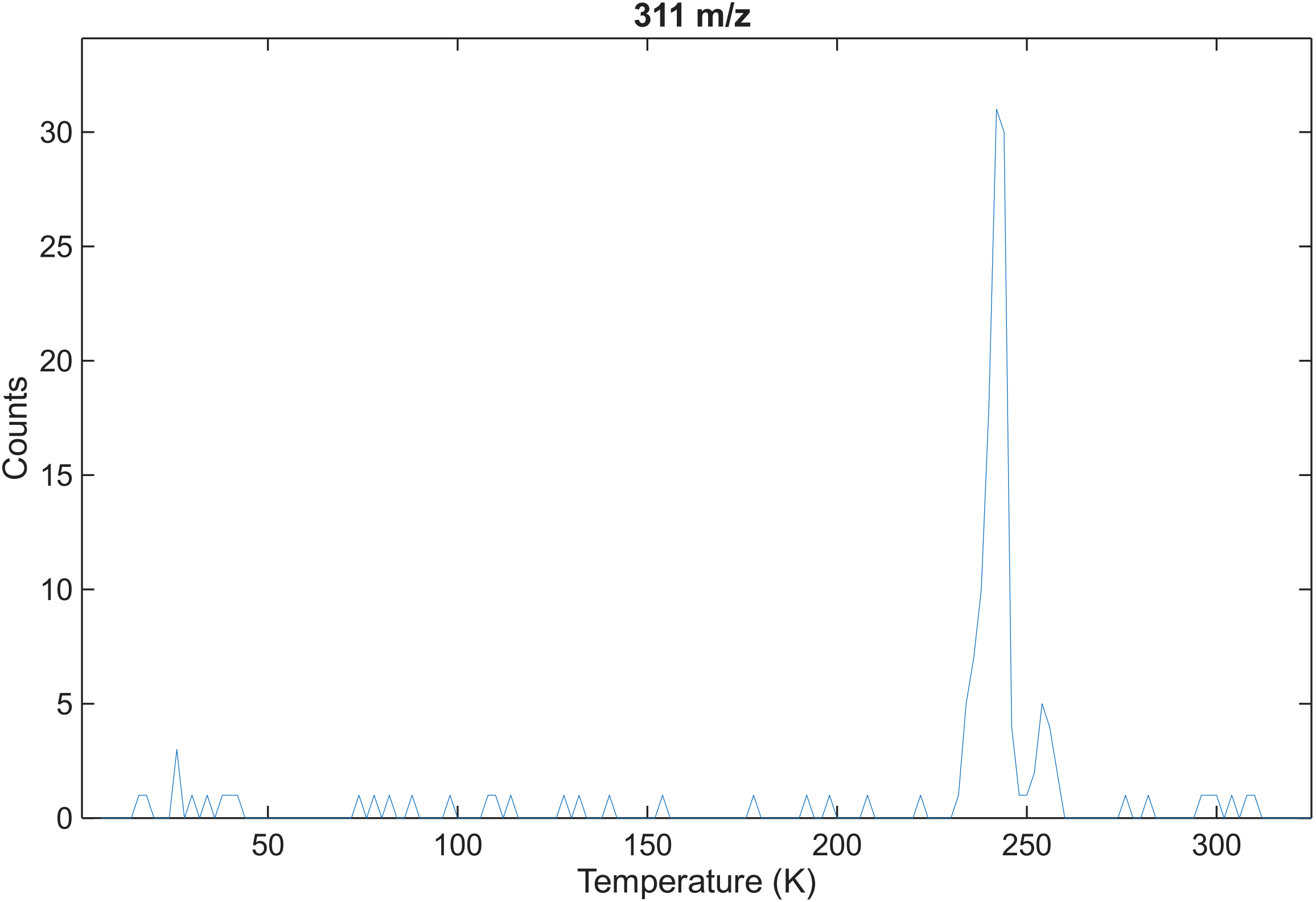
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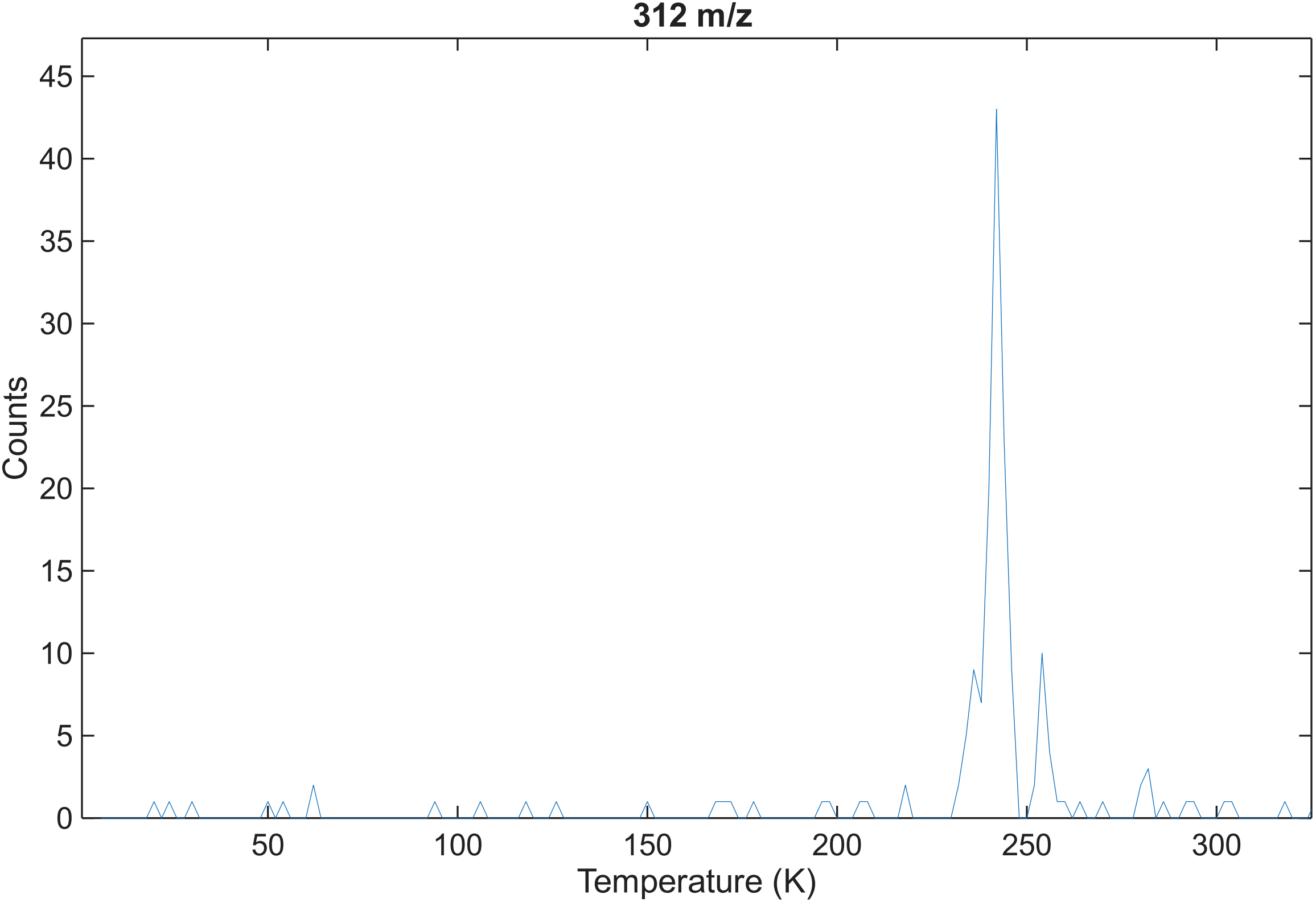
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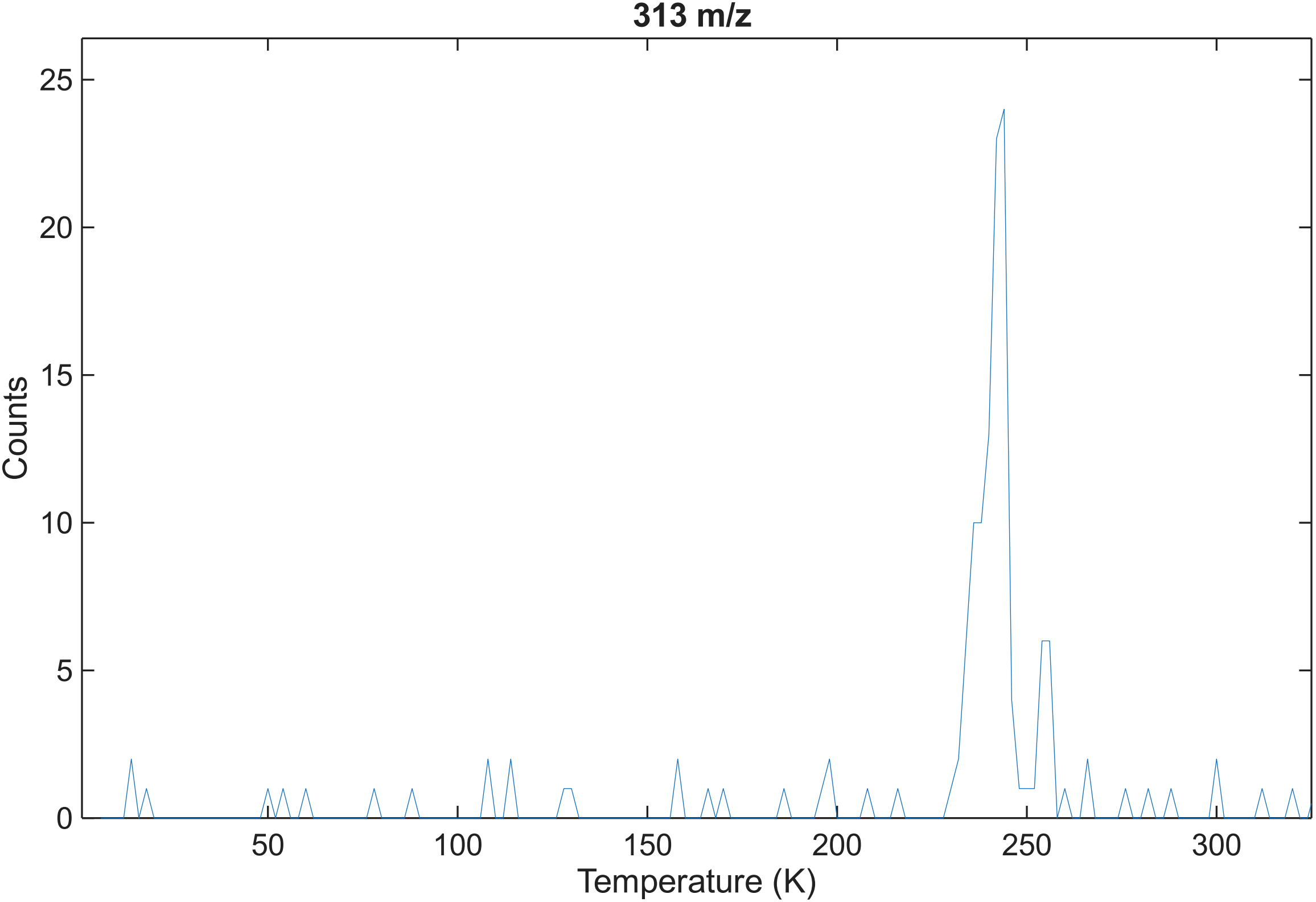
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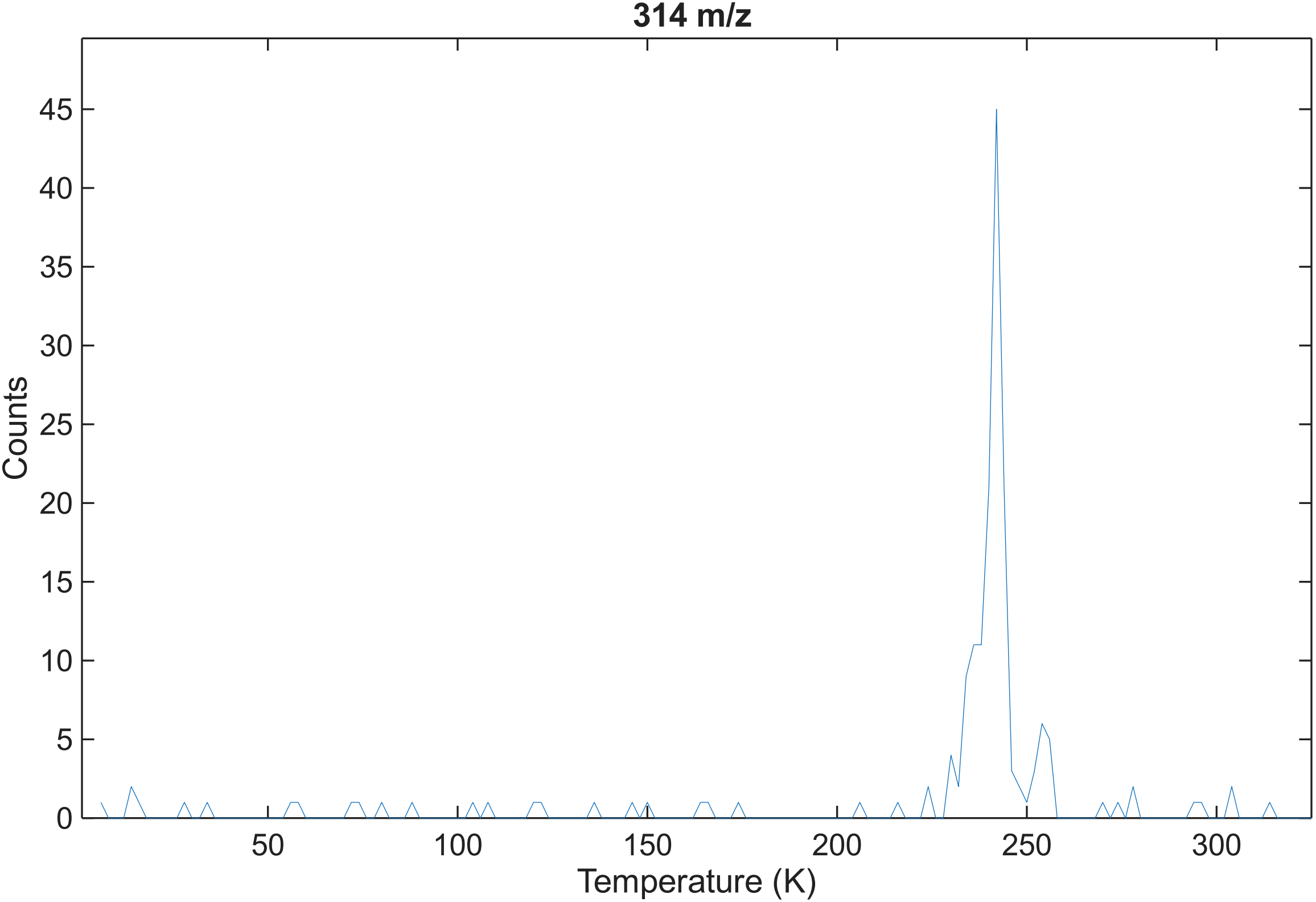
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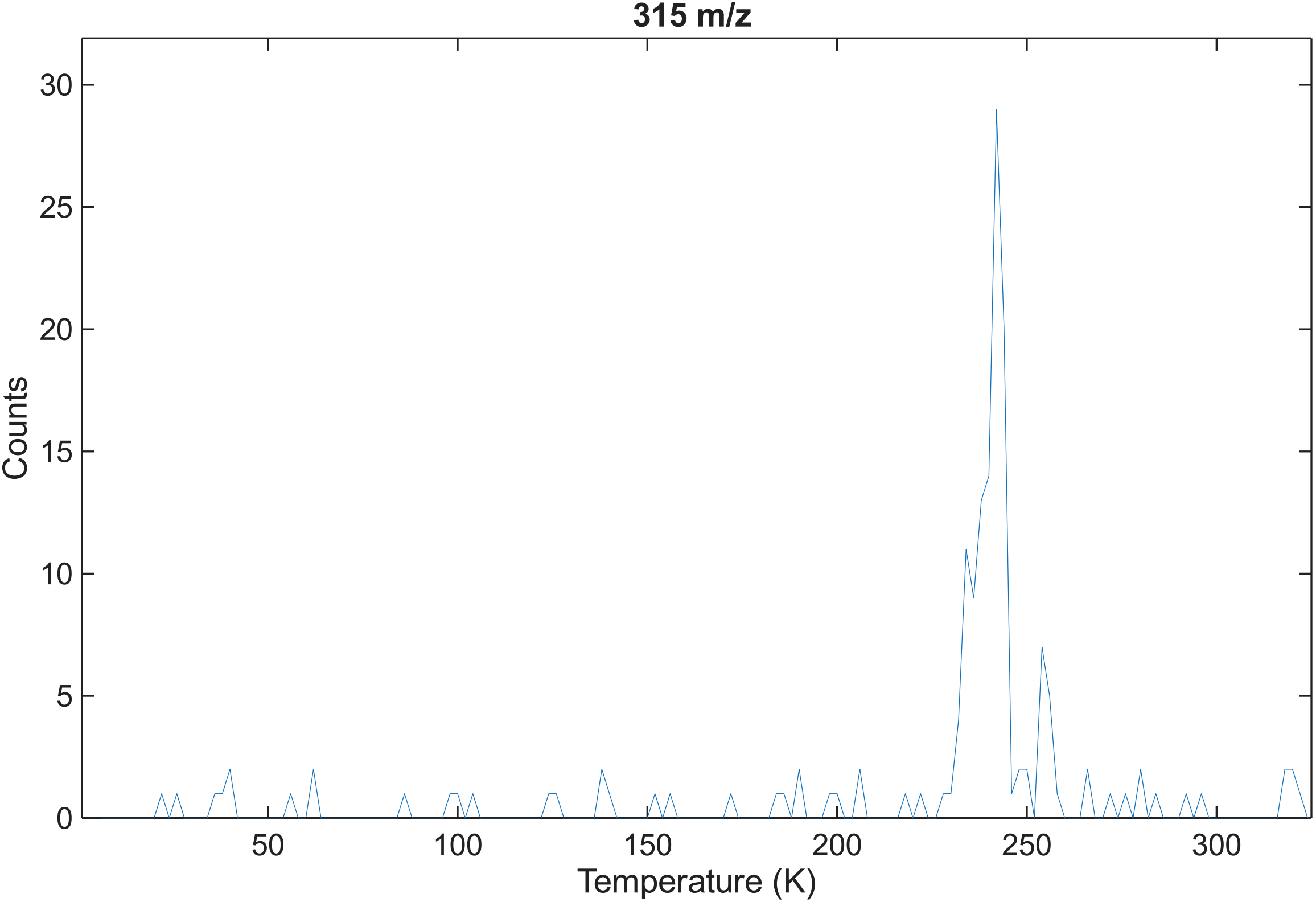
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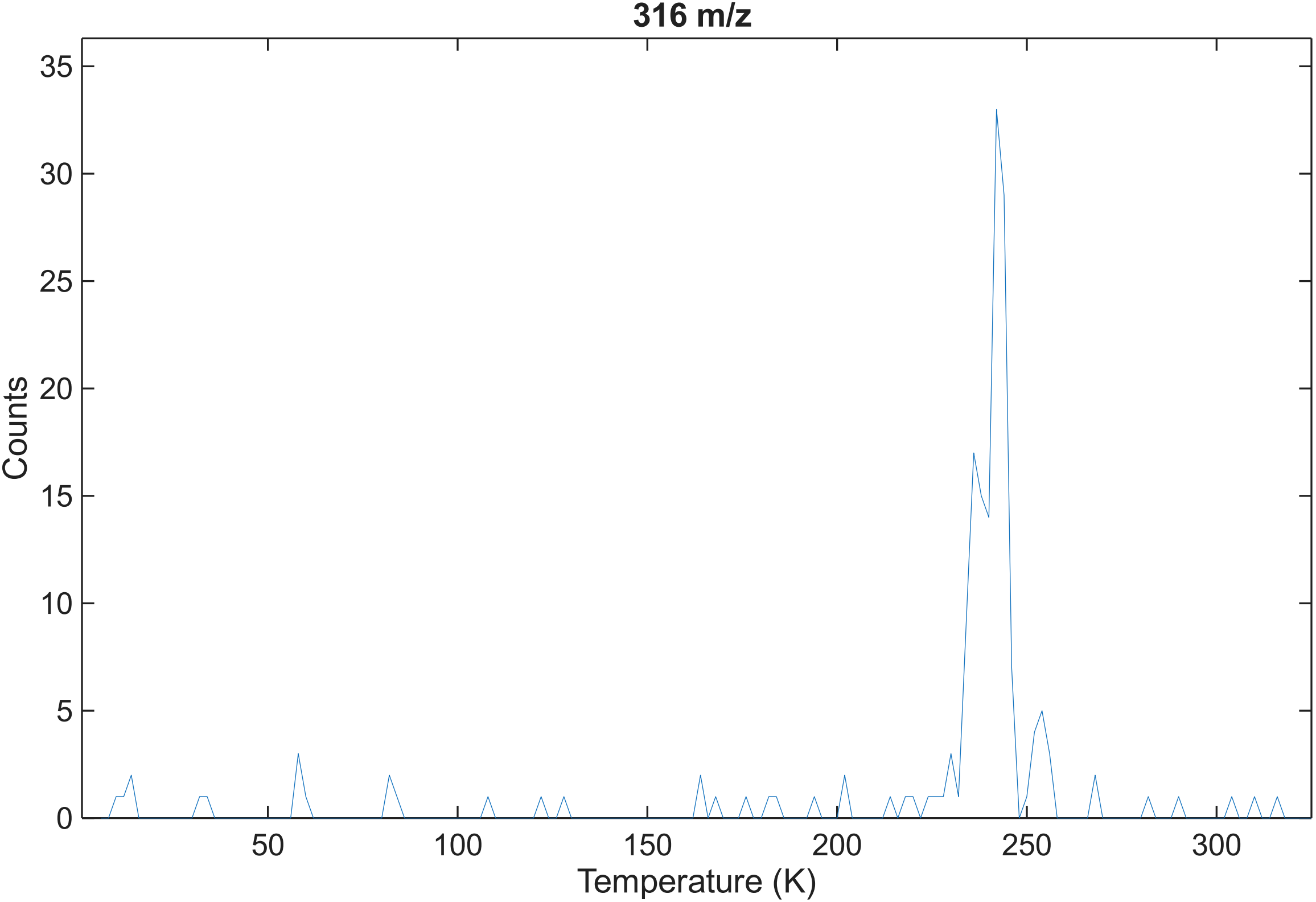
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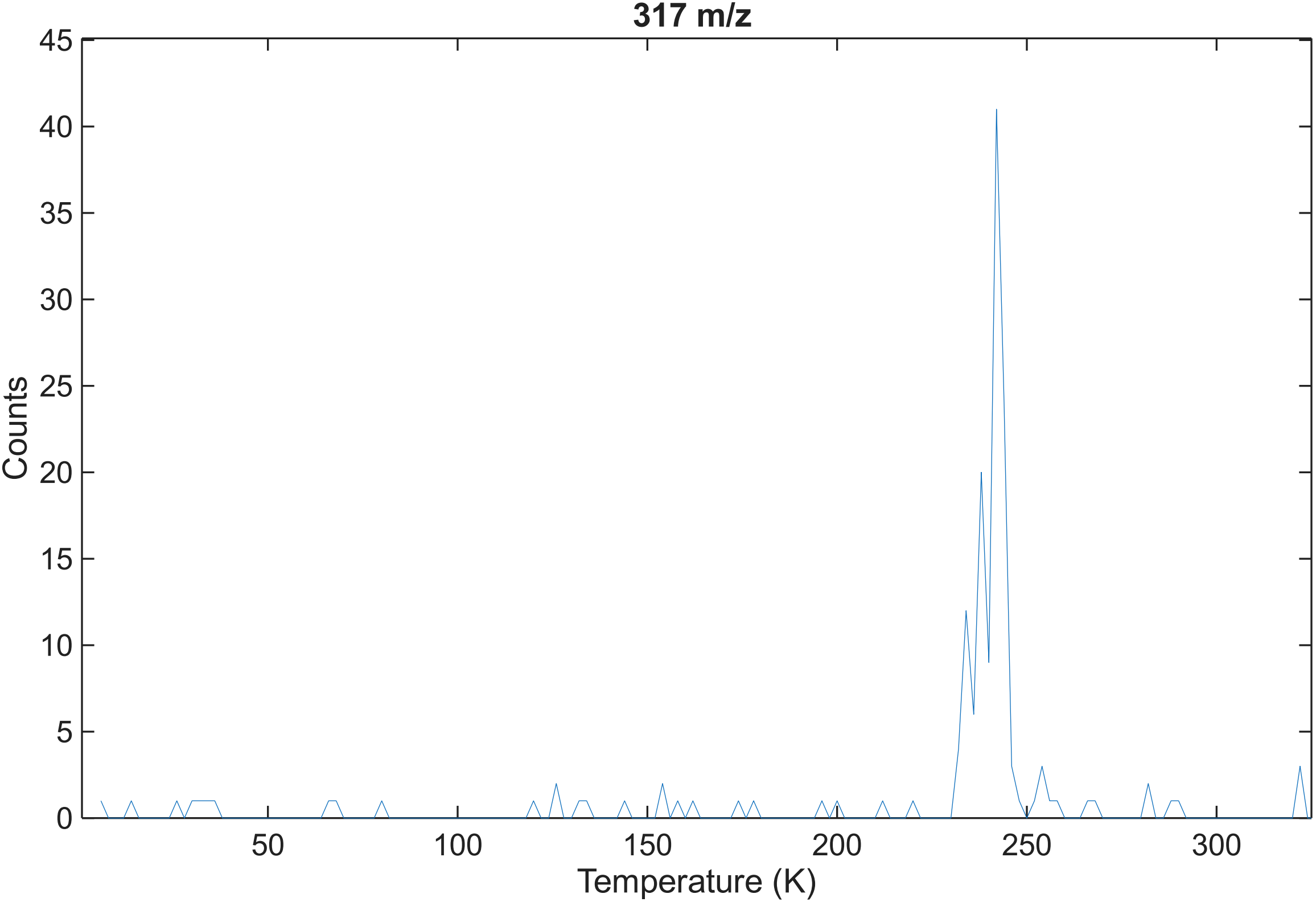
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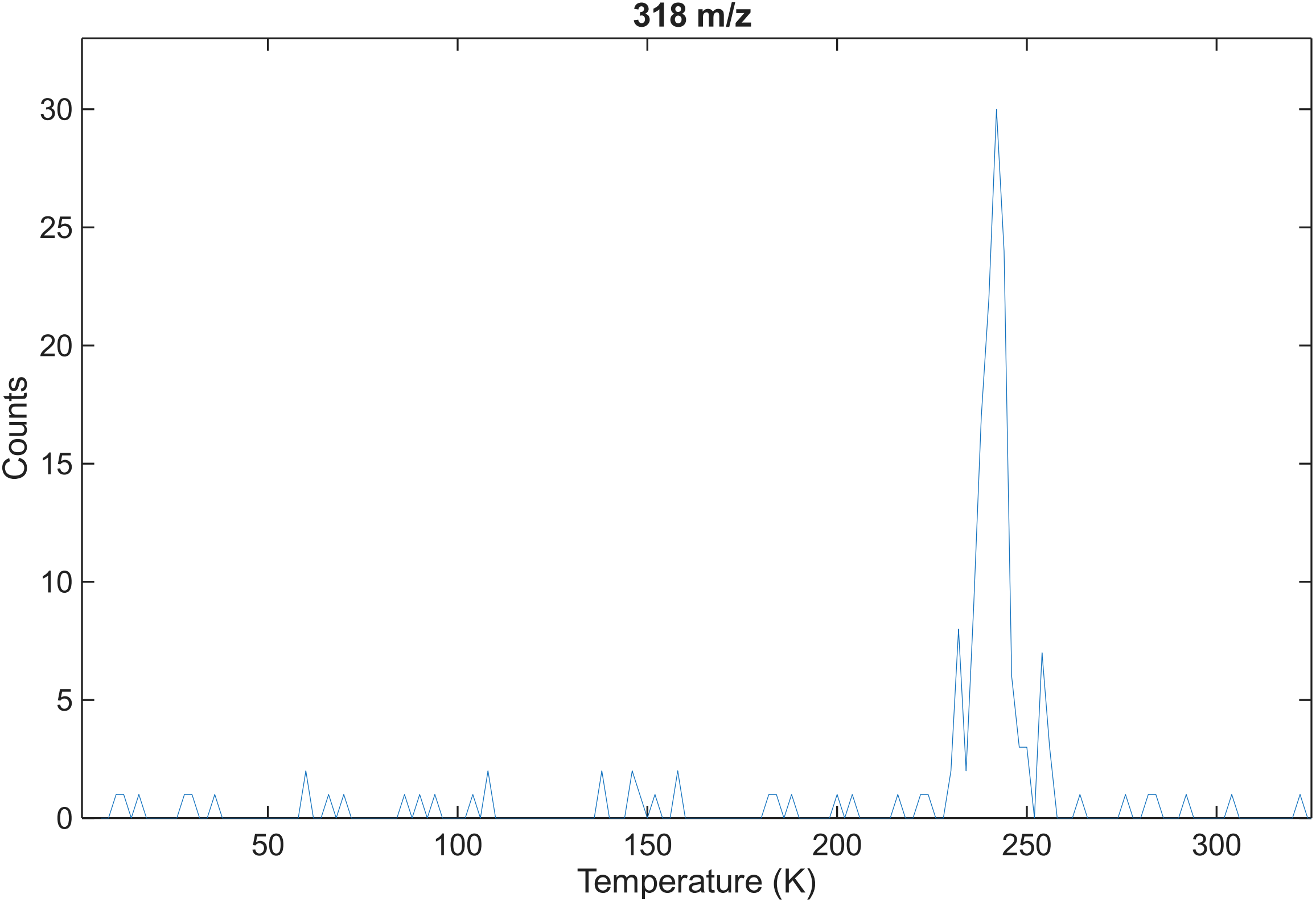
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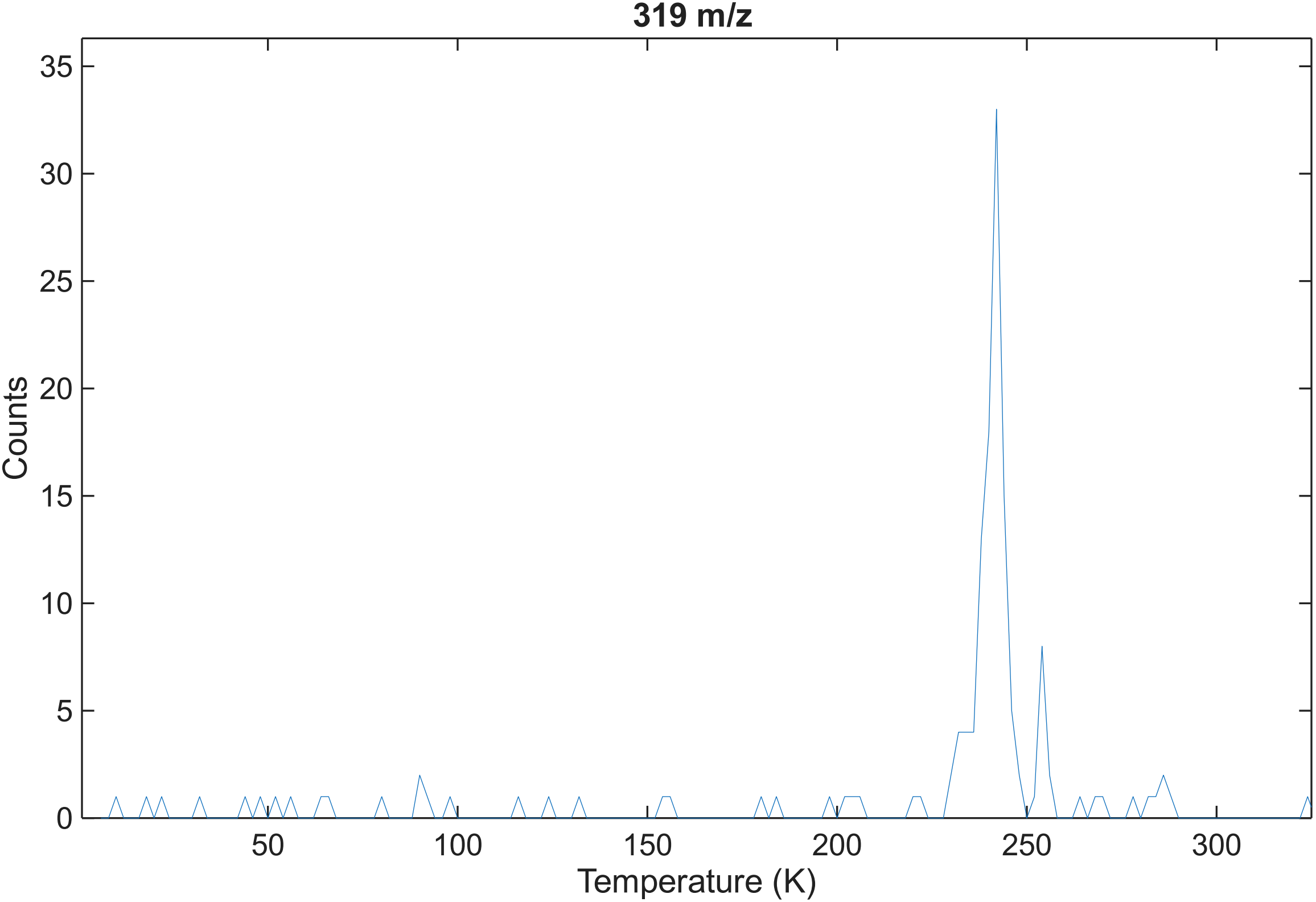
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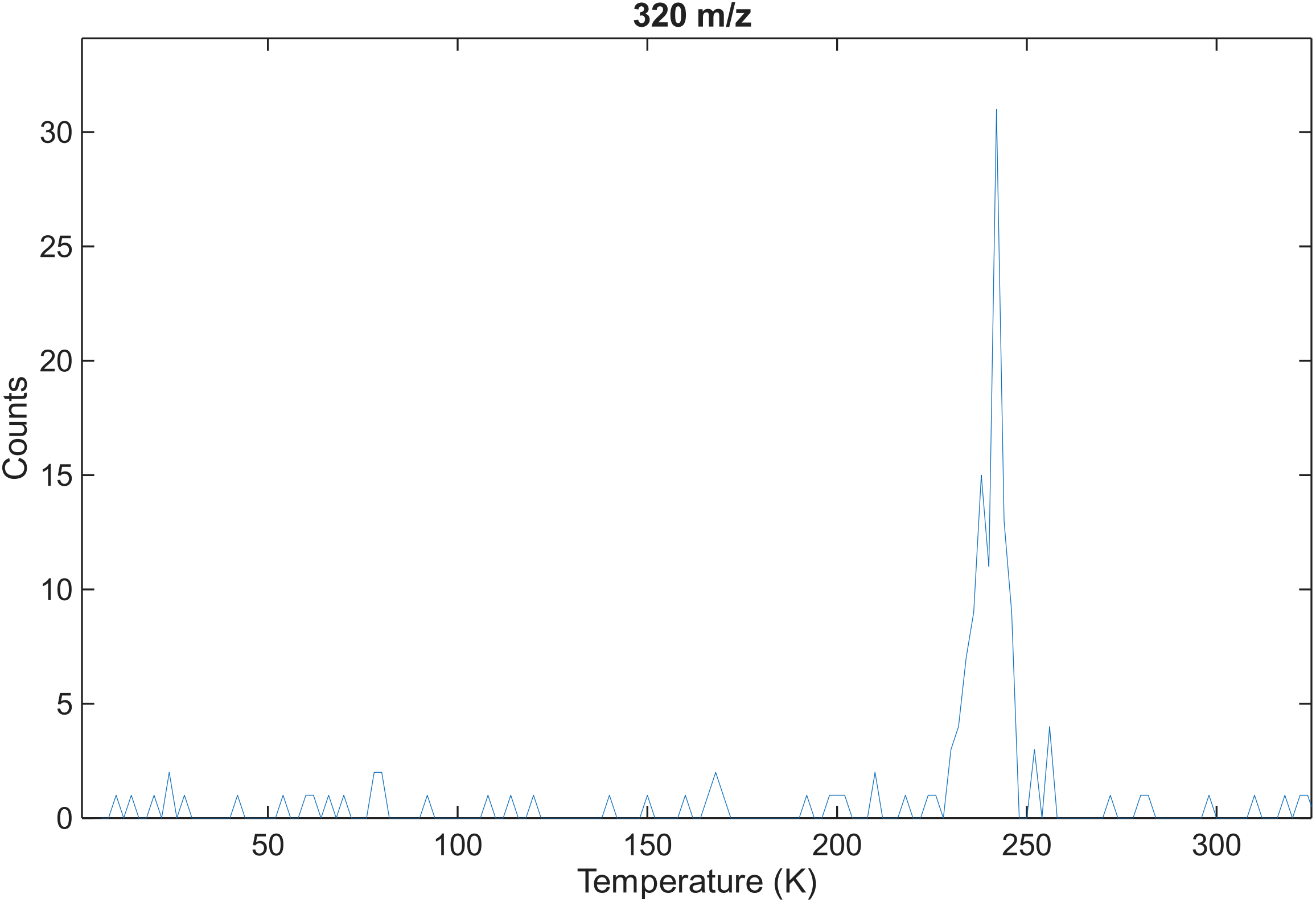
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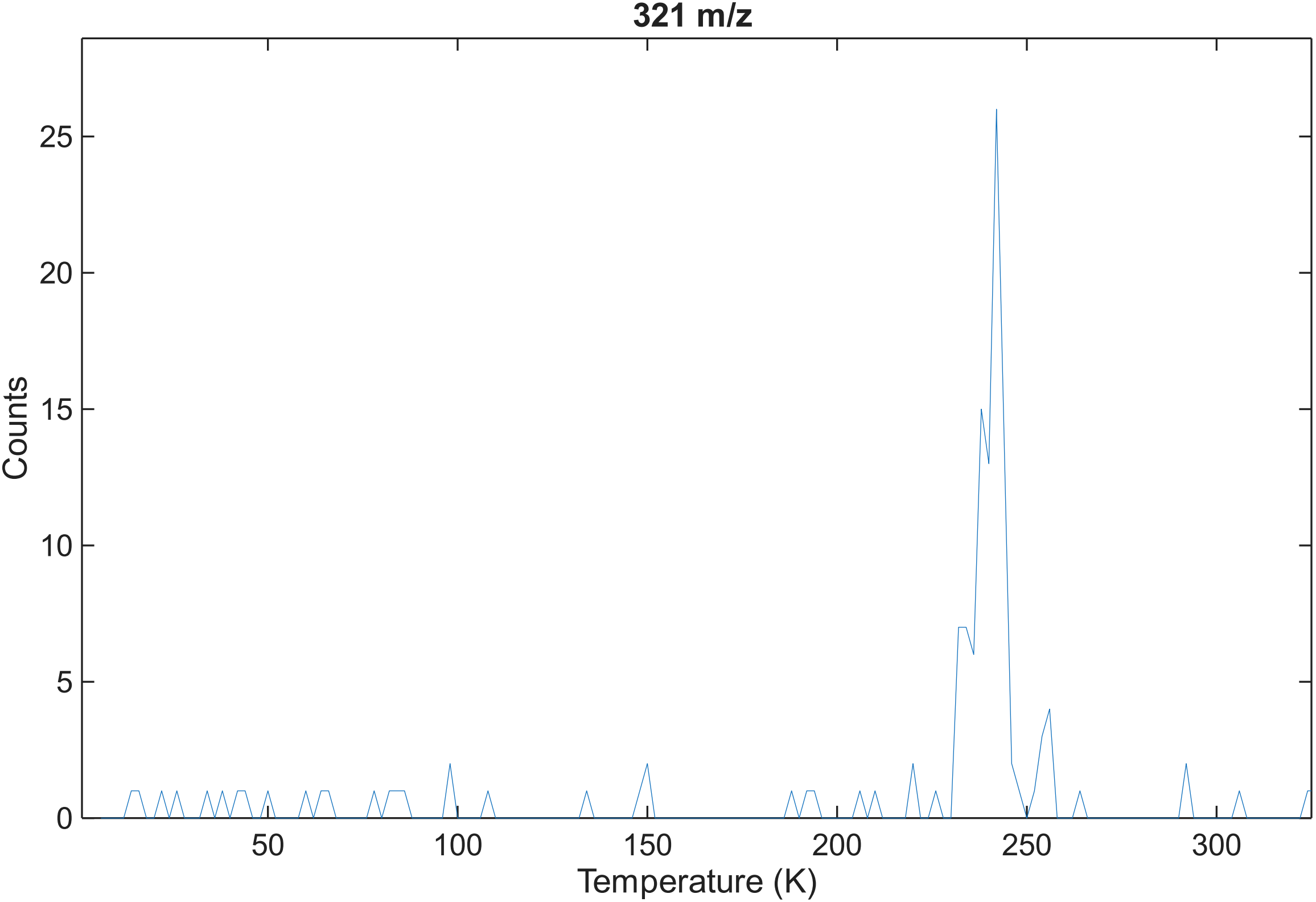
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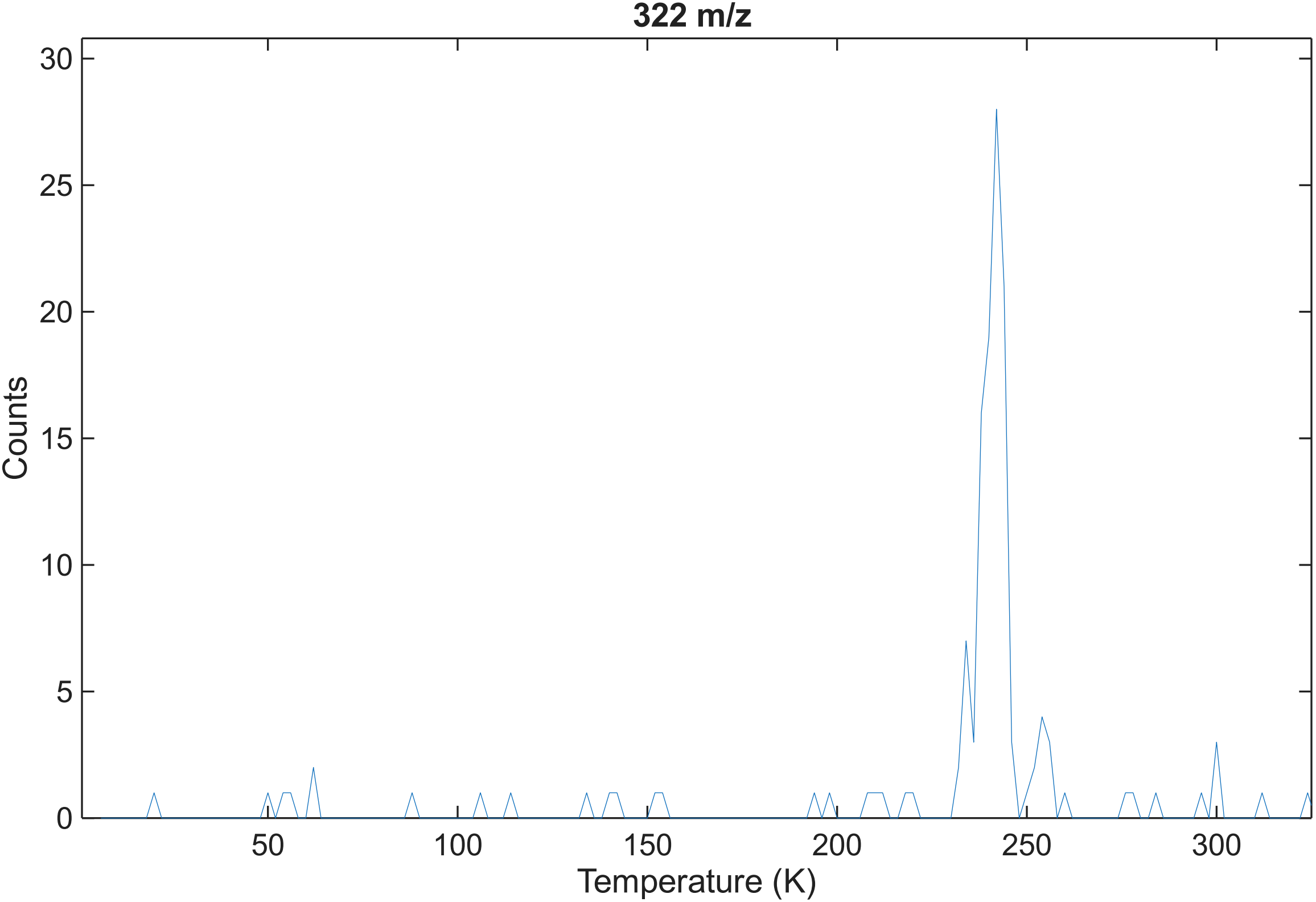
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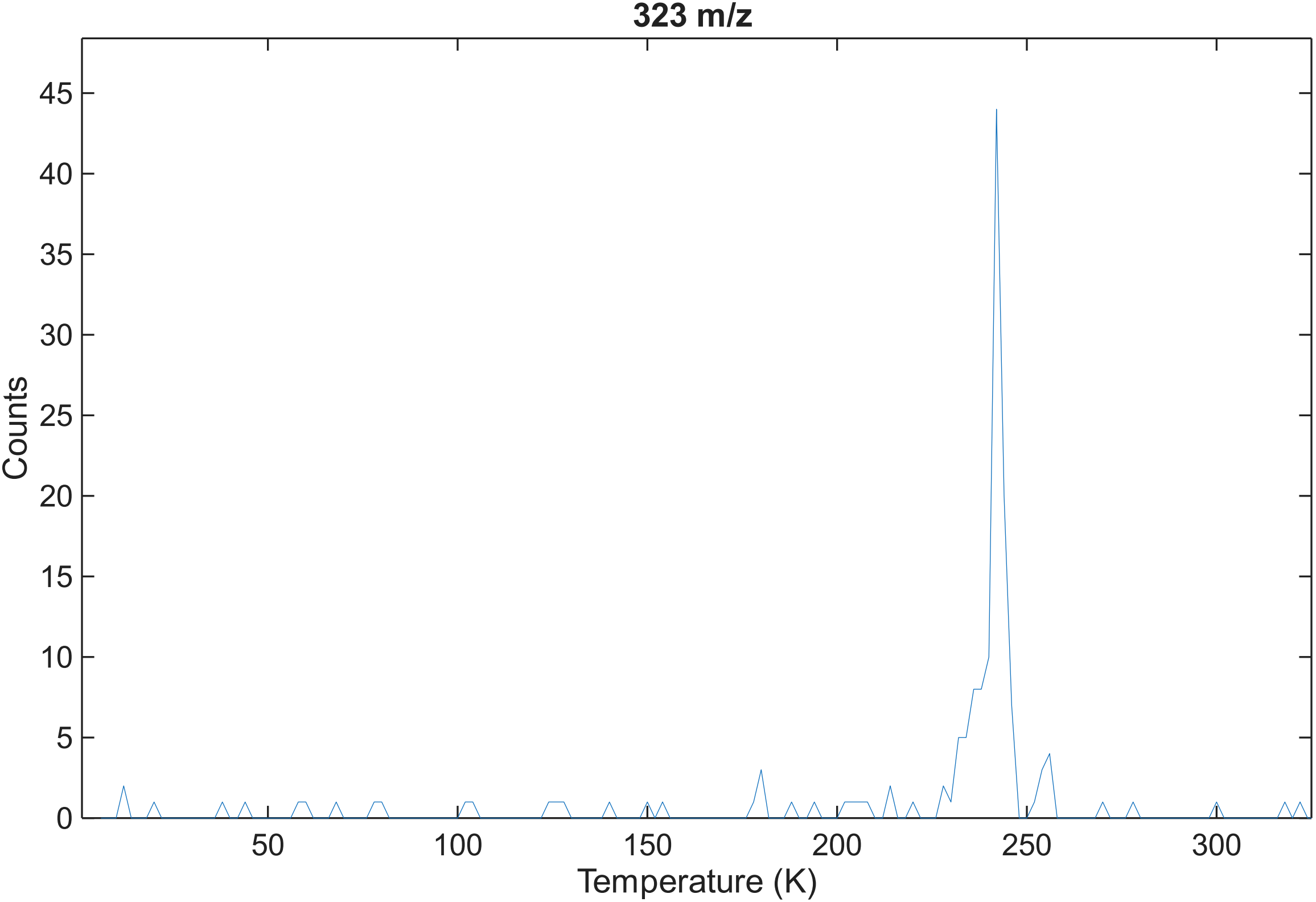
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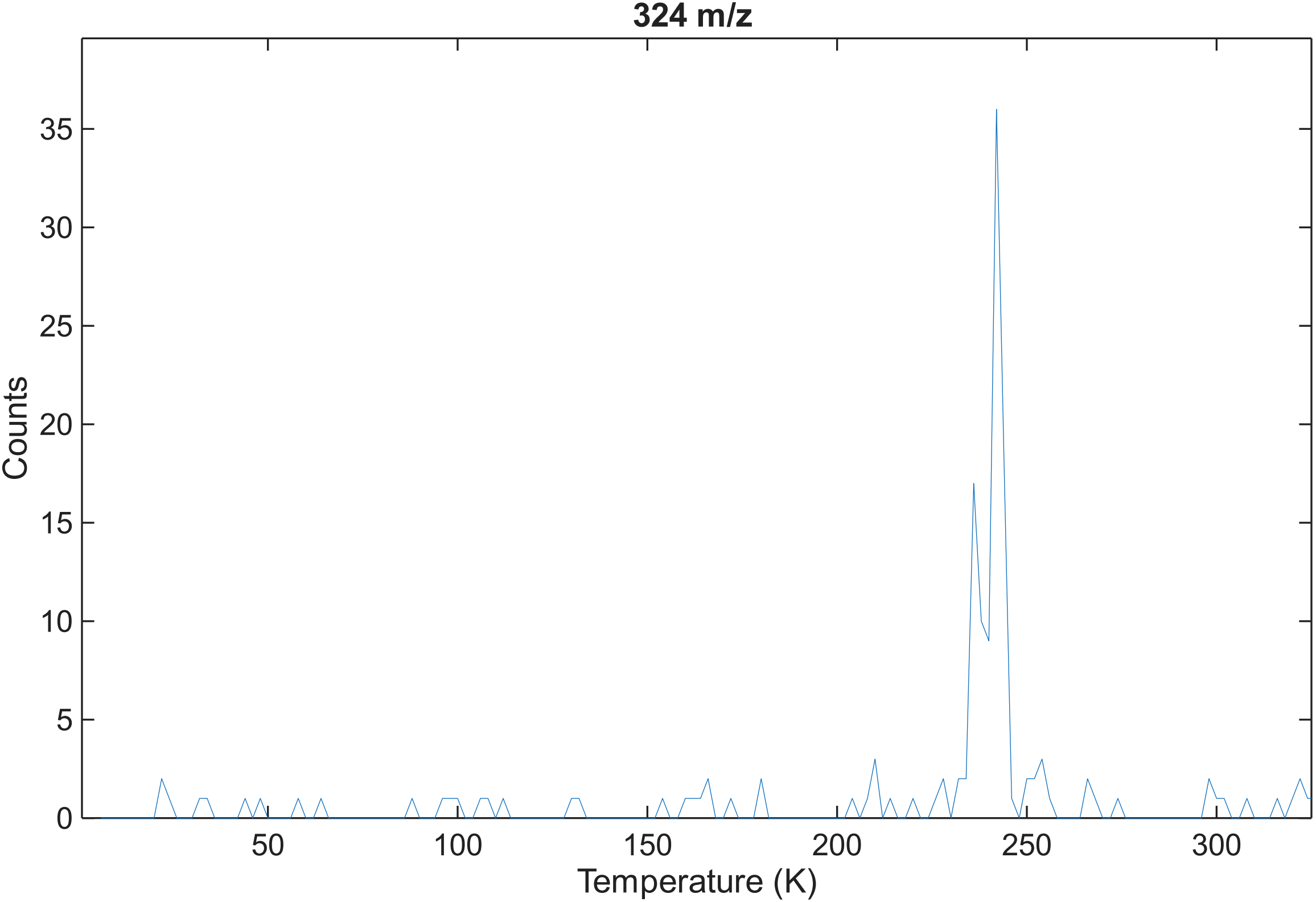
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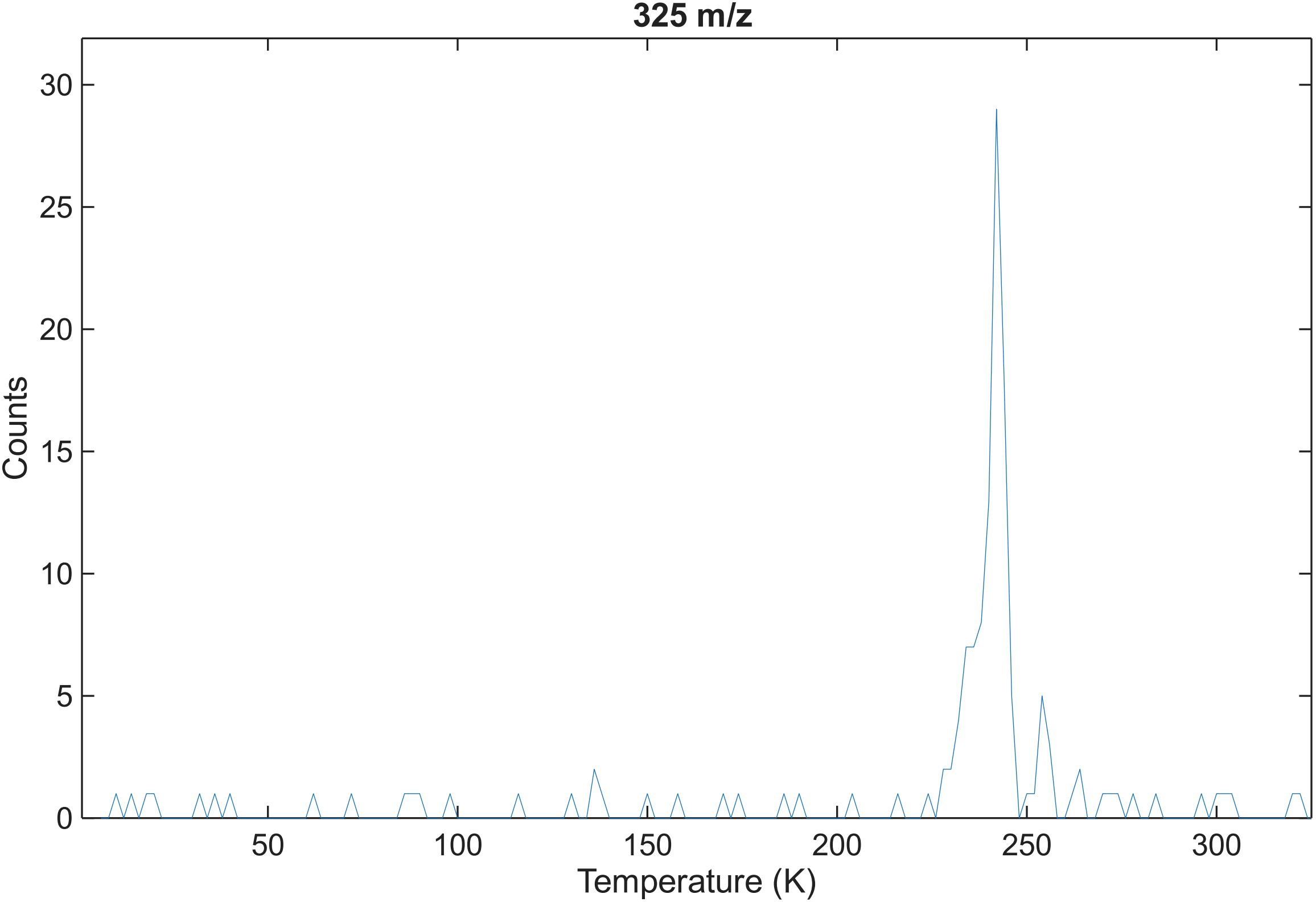
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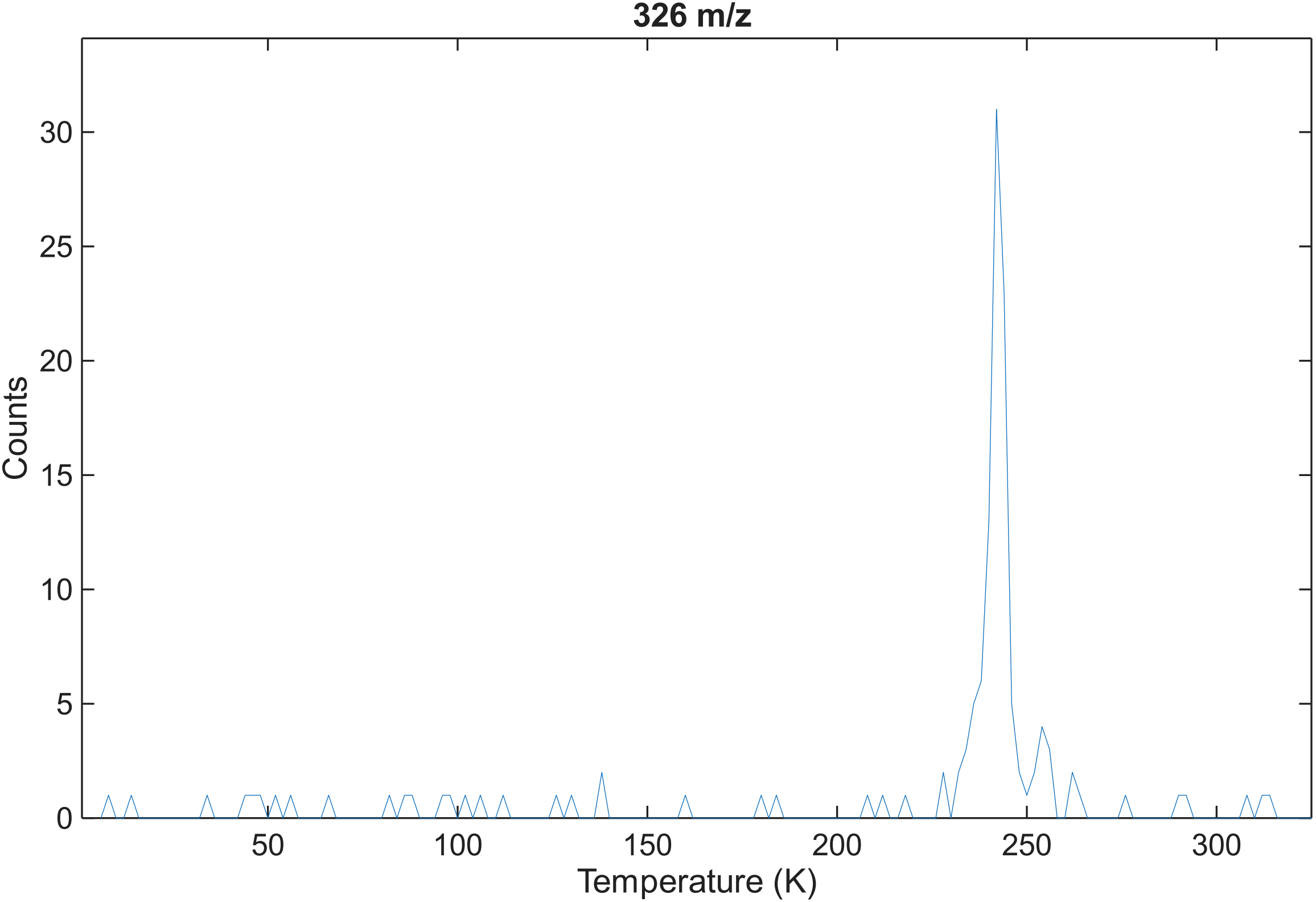
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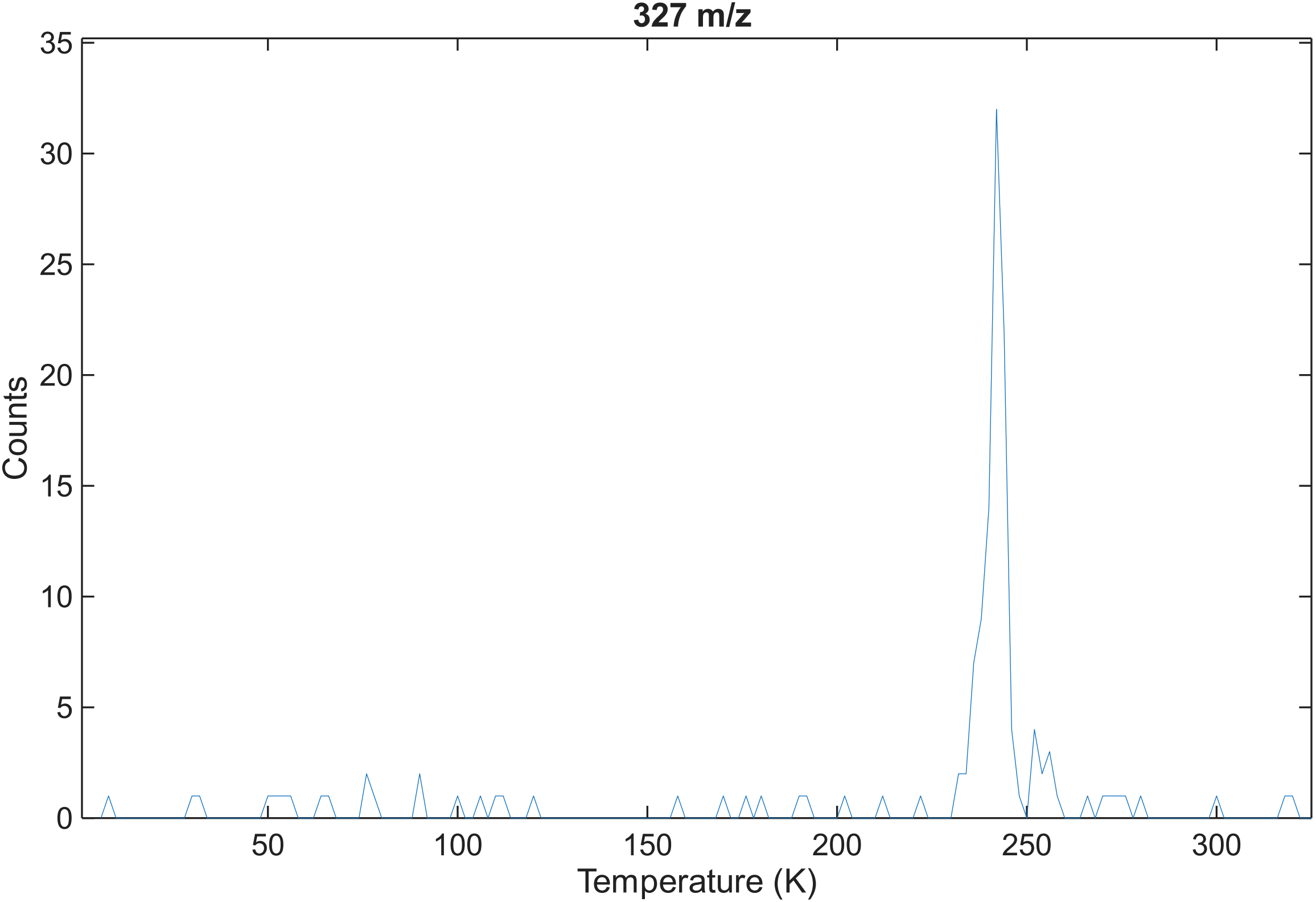
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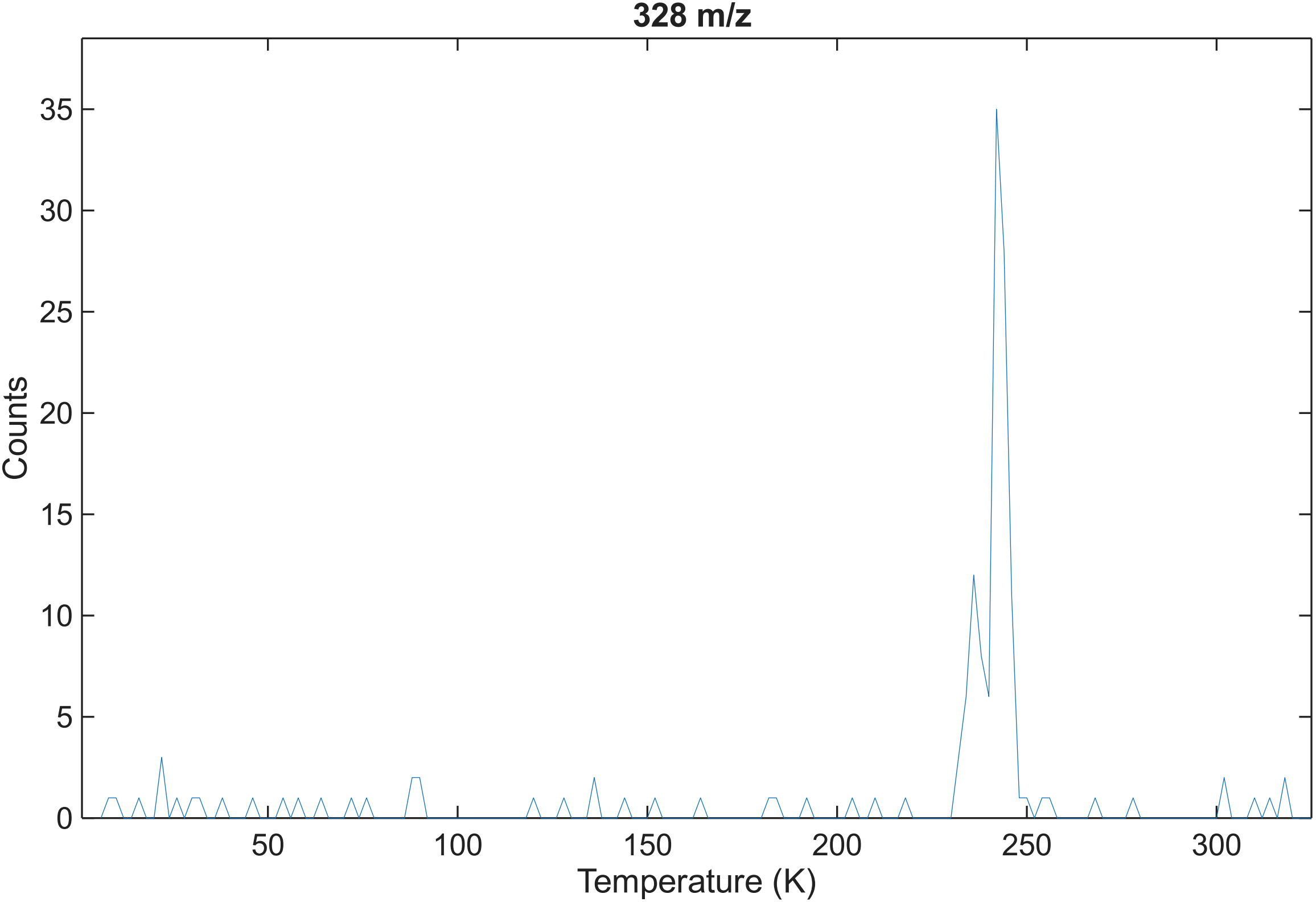
Temperature (K)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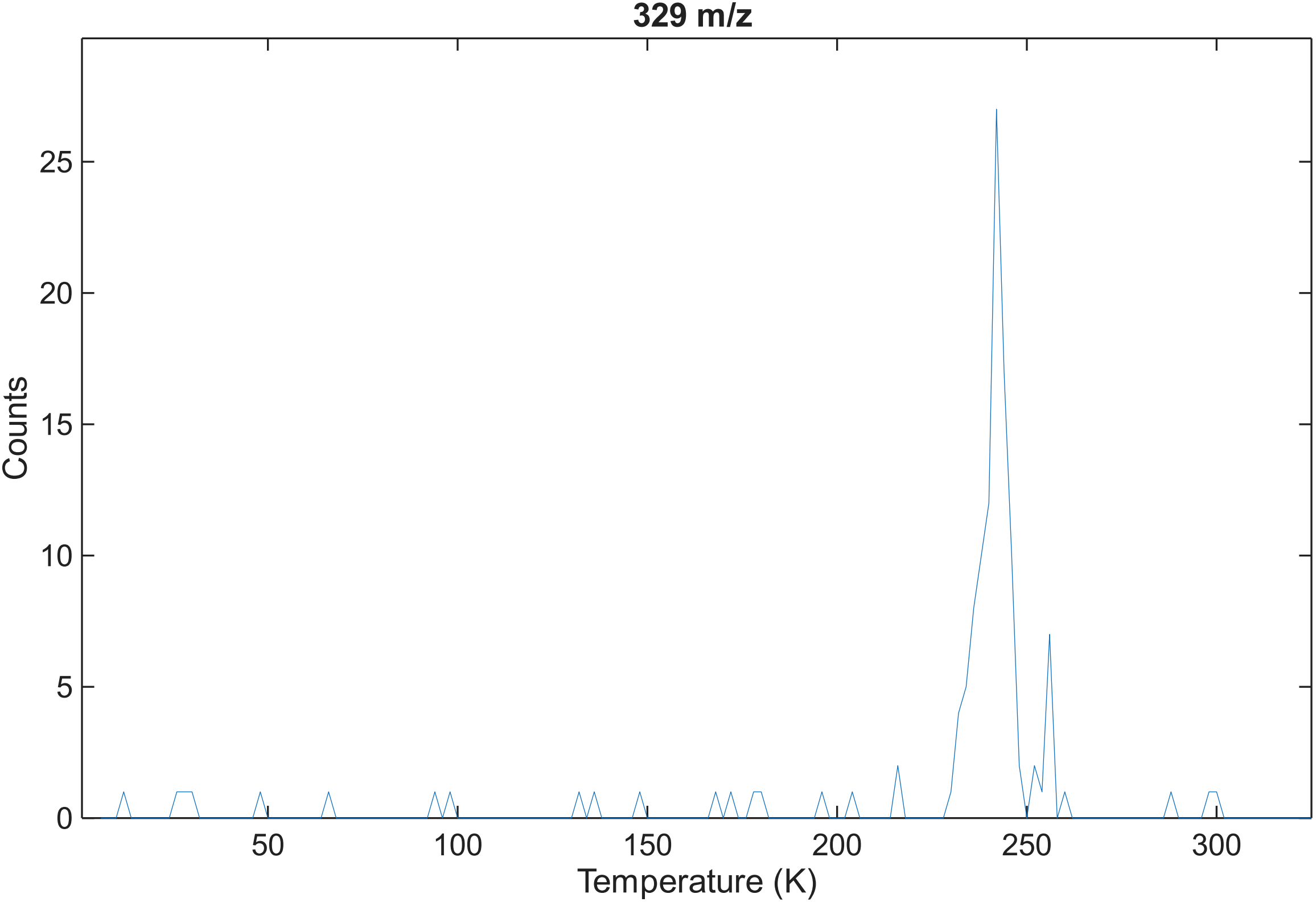
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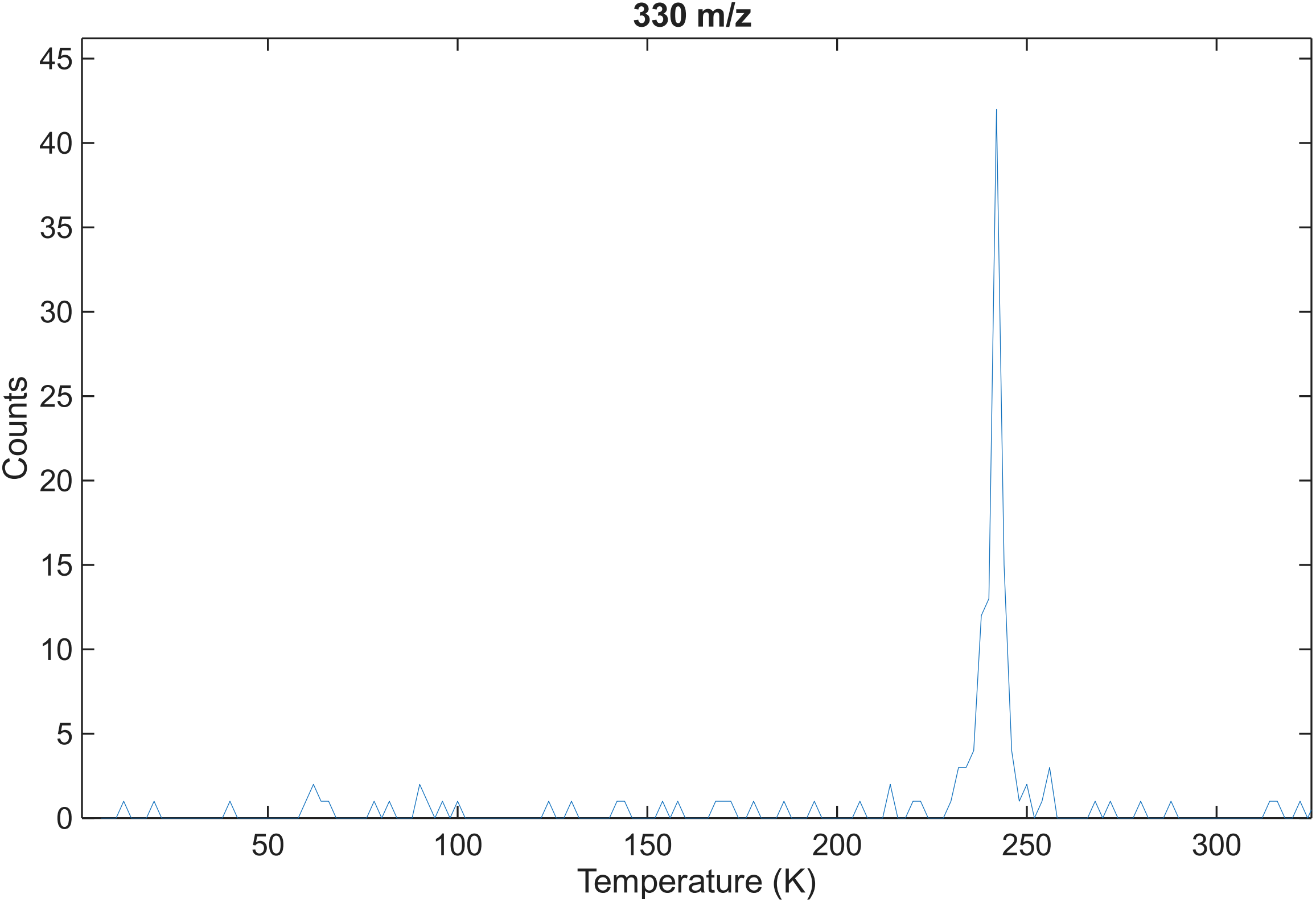
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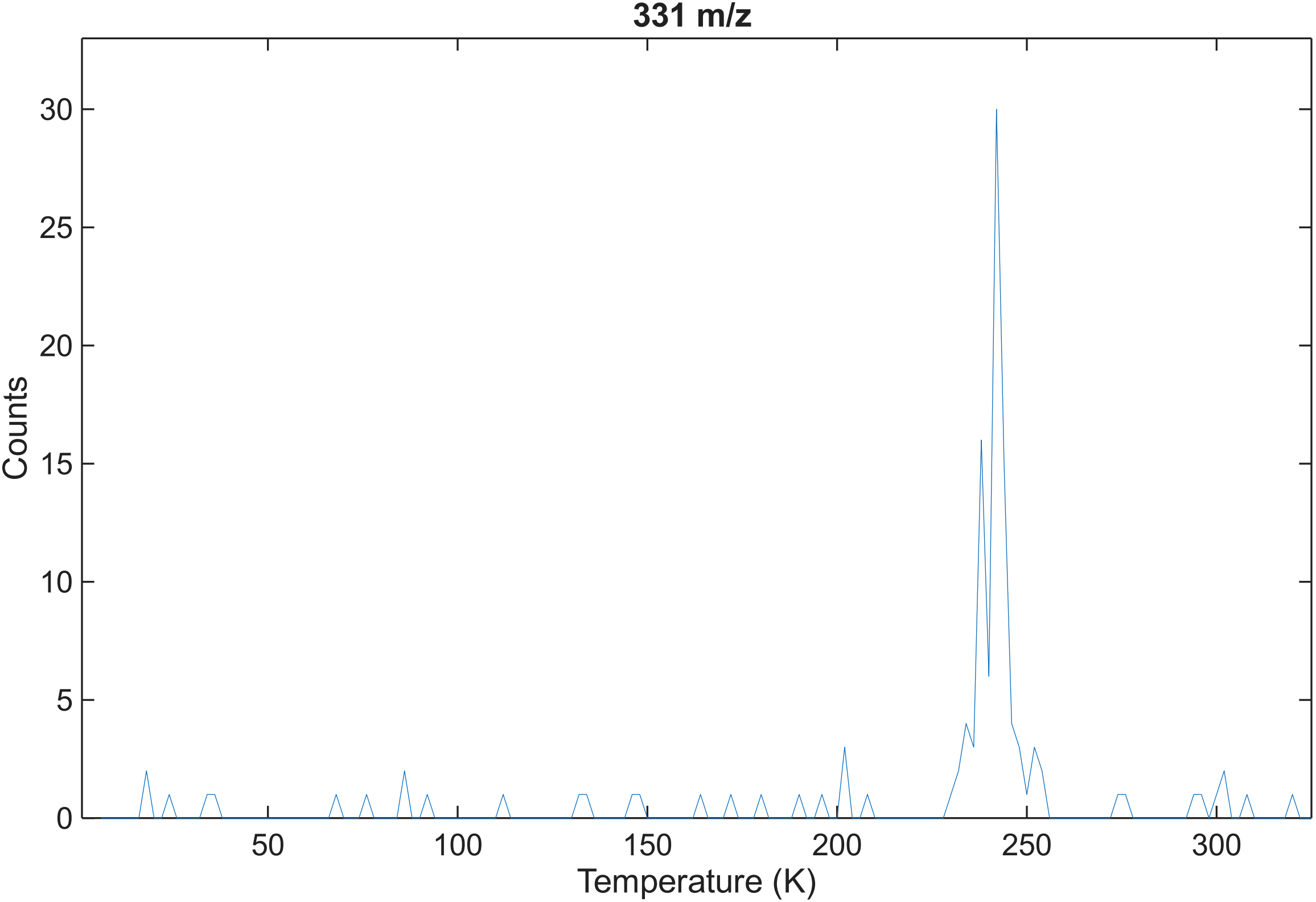
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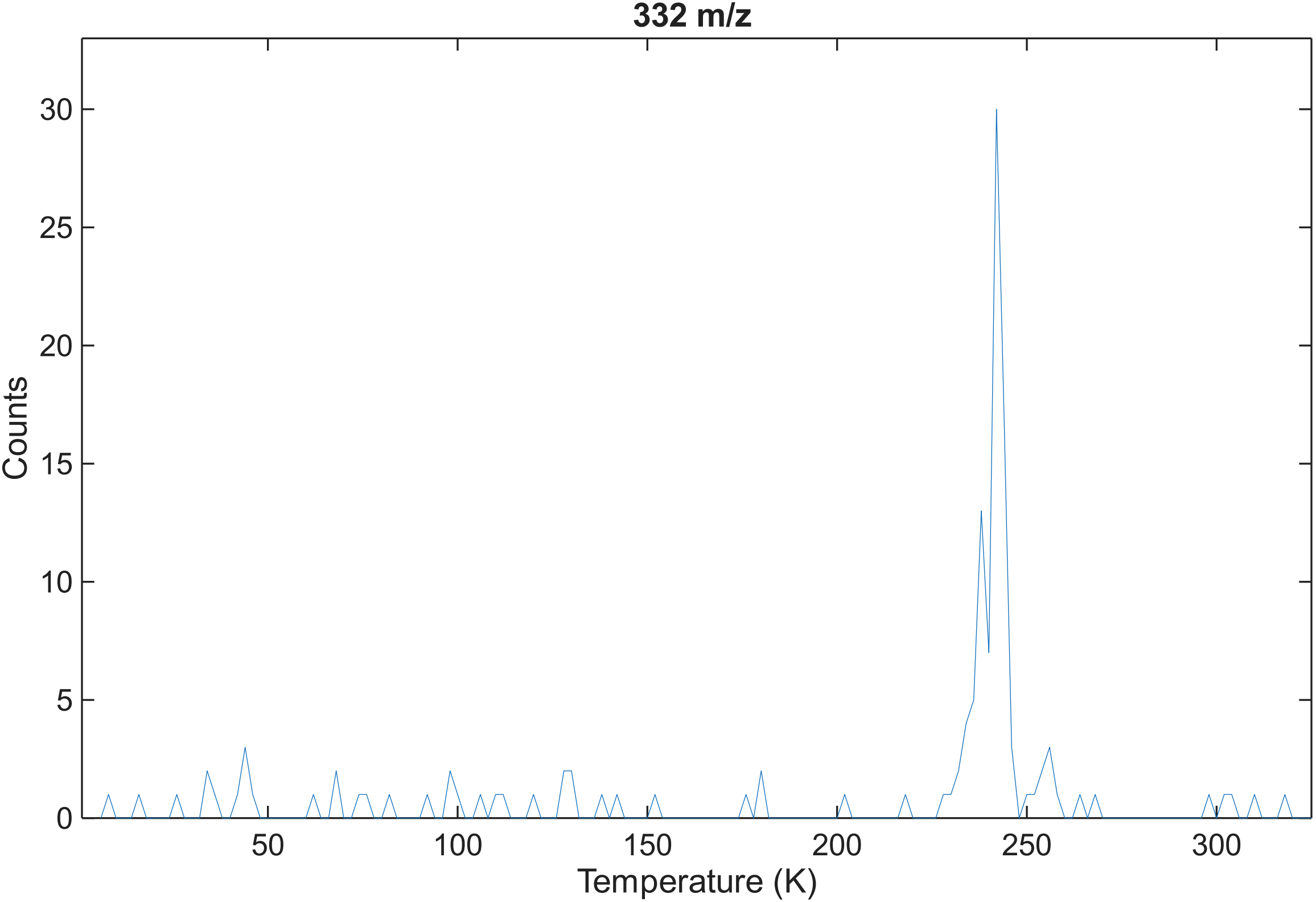
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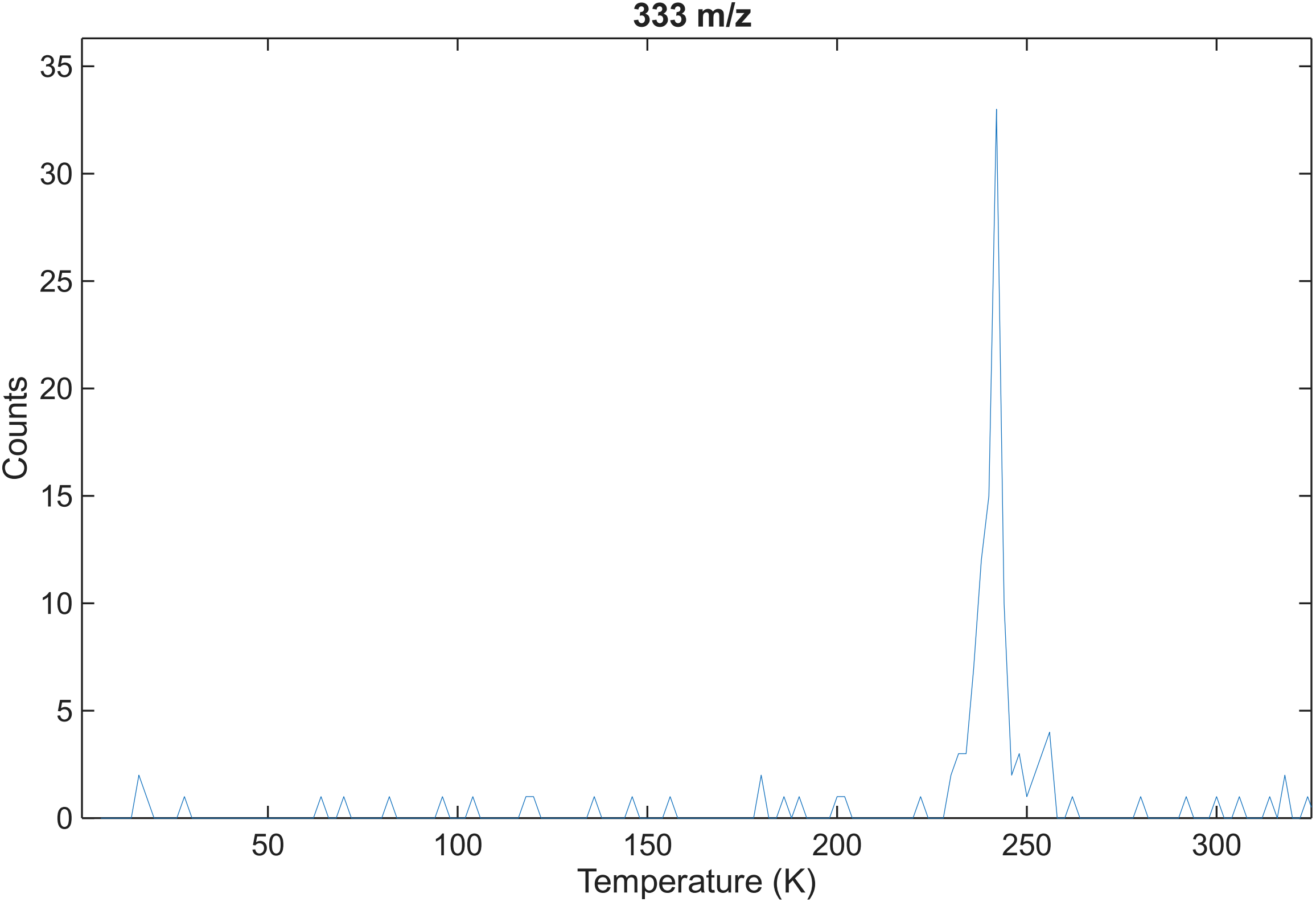
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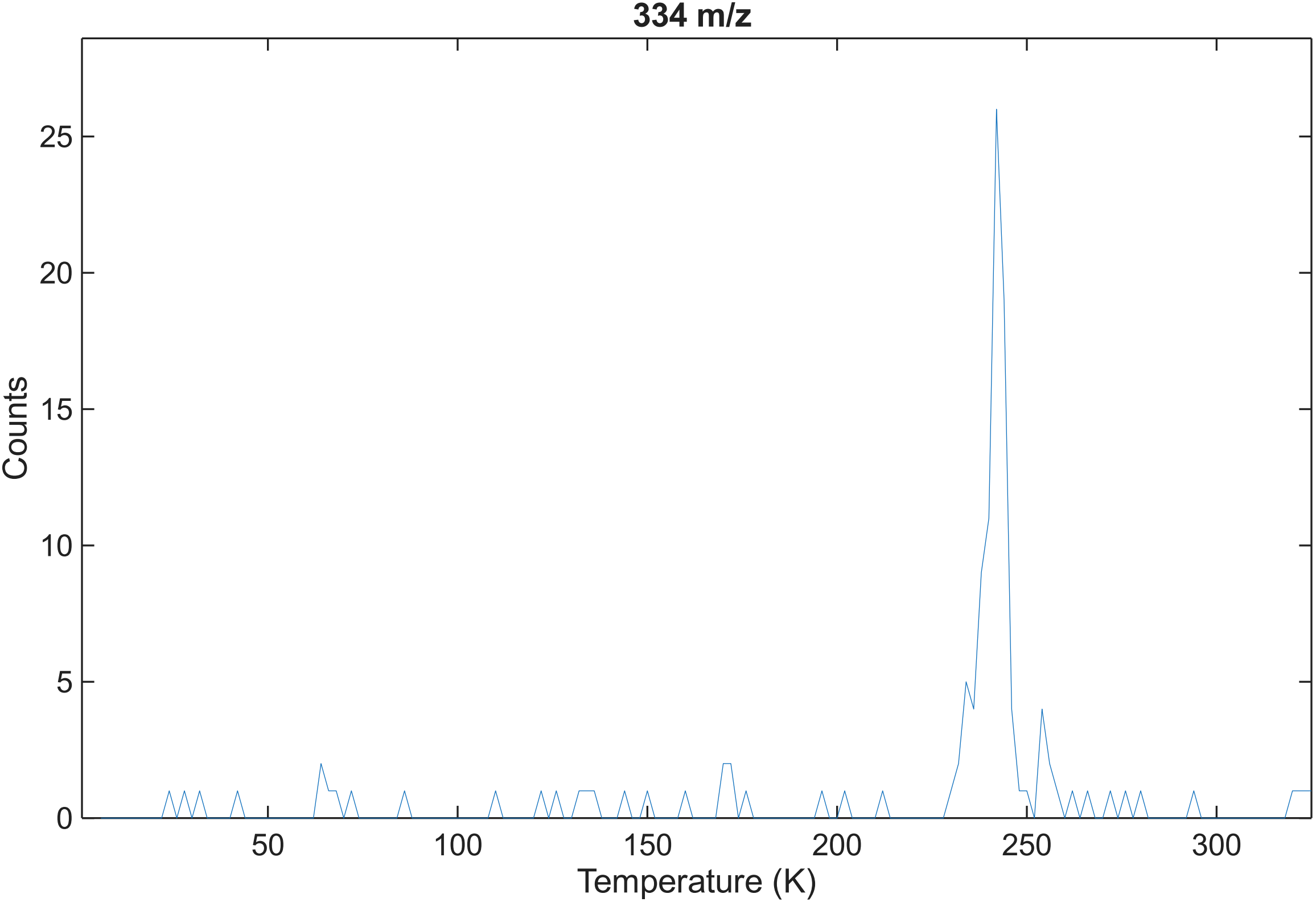
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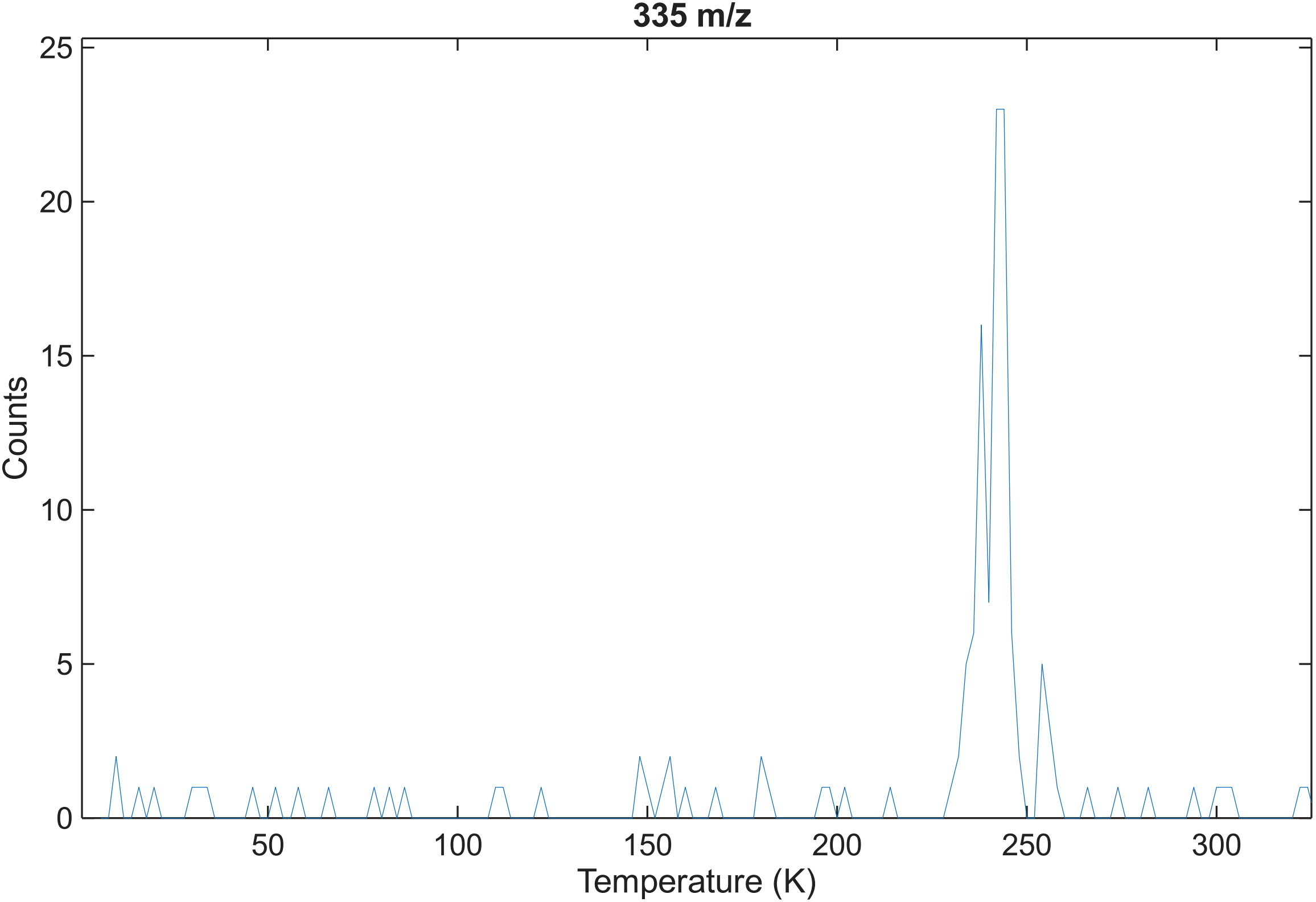
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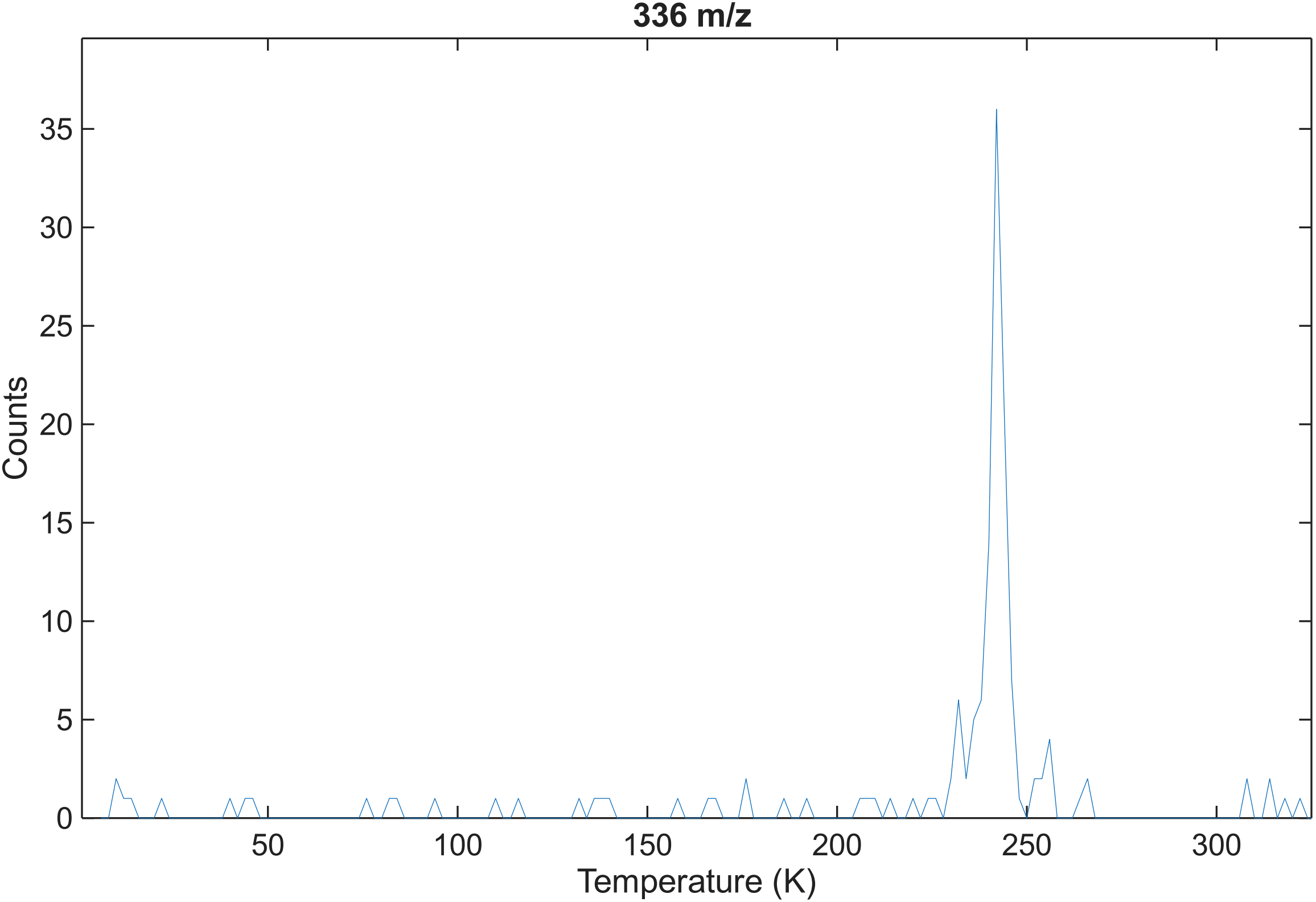
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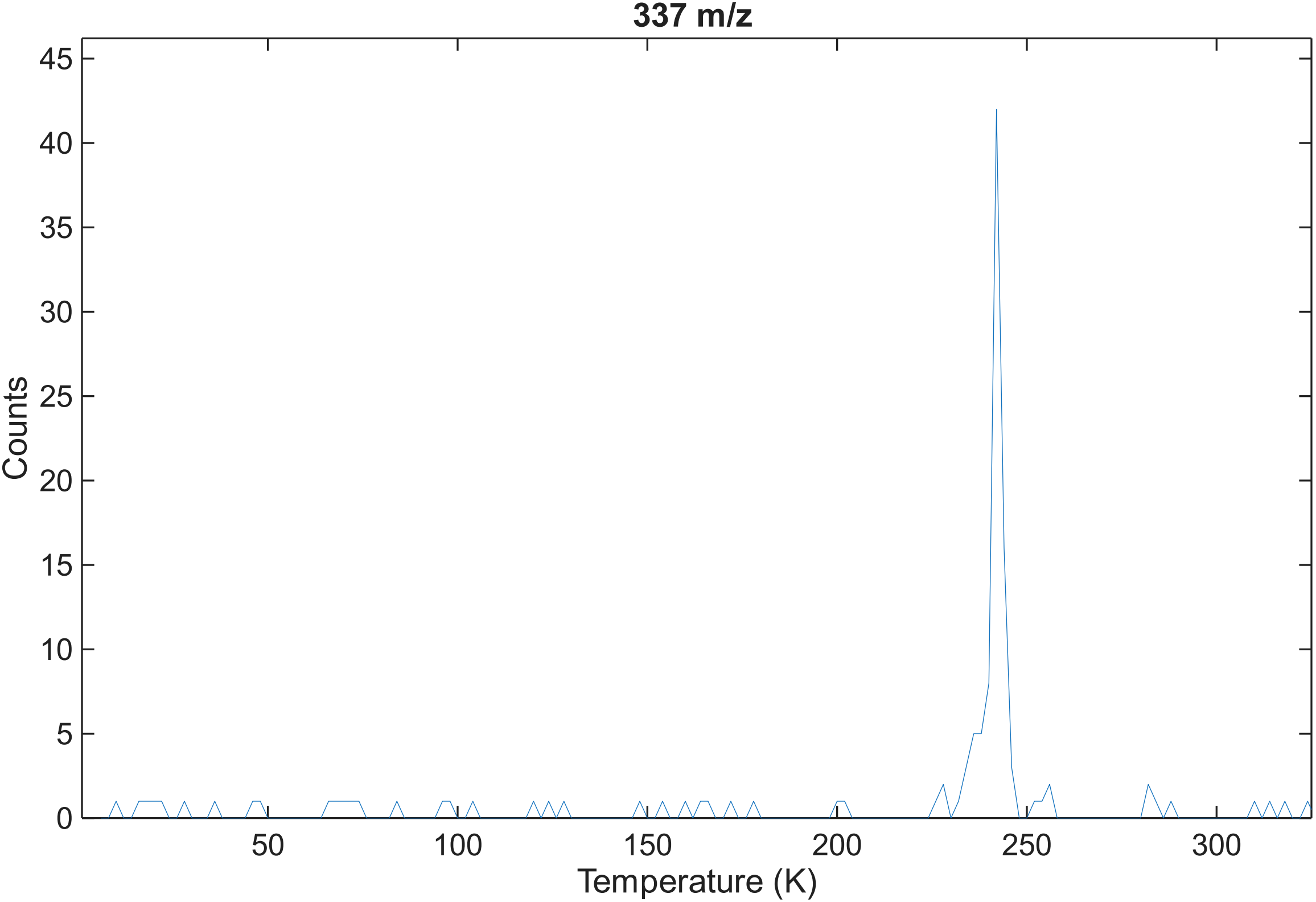
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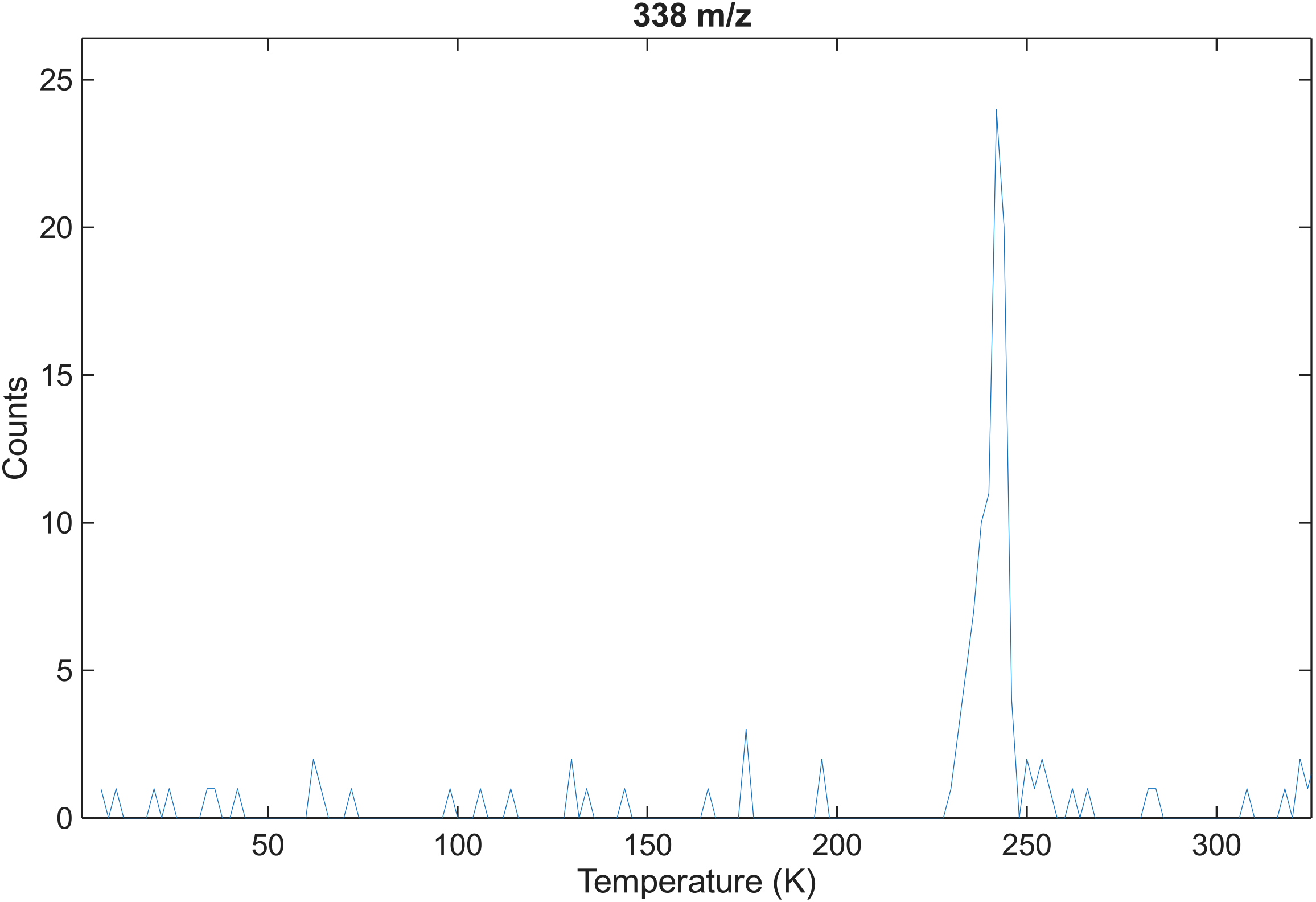
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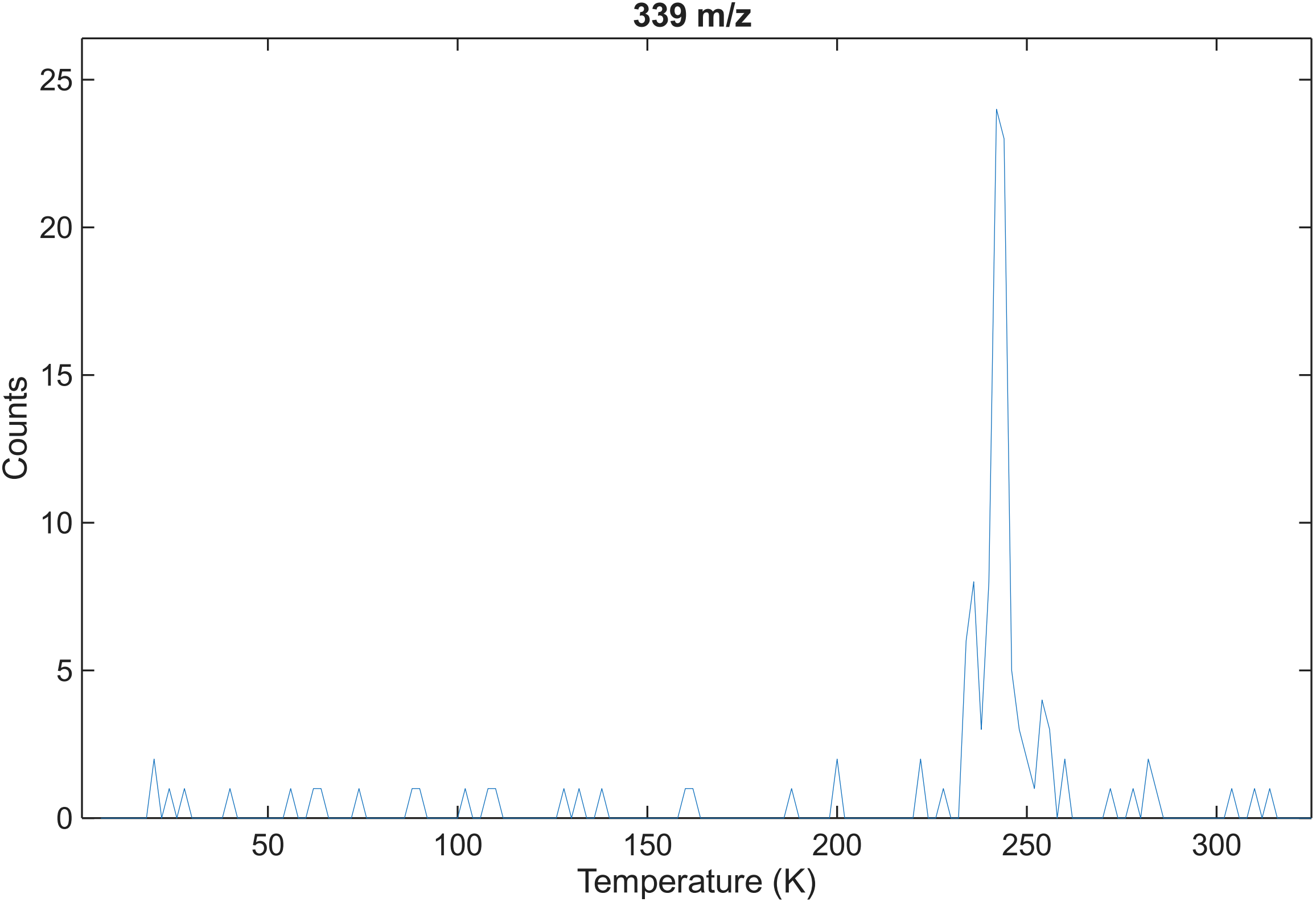
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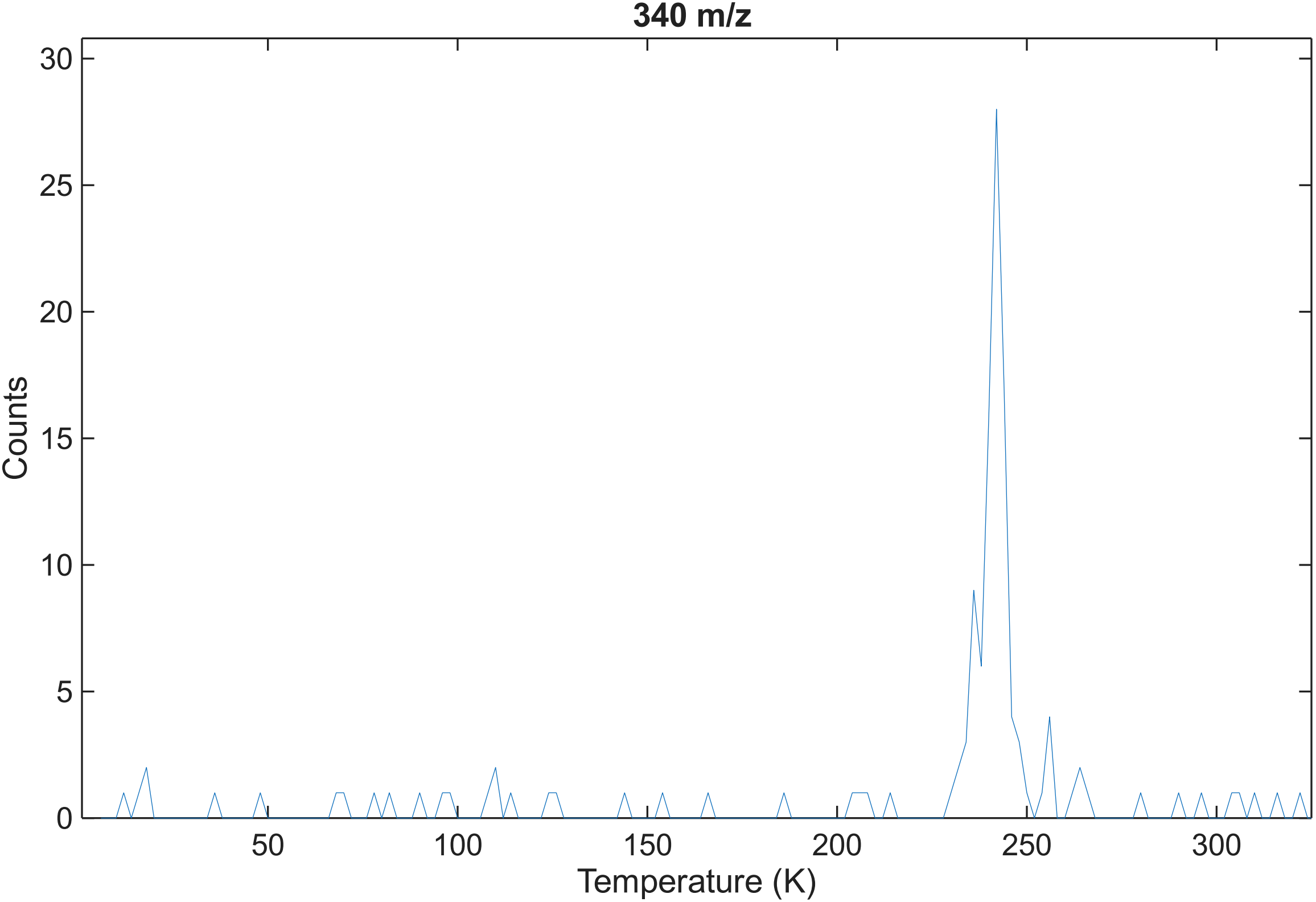
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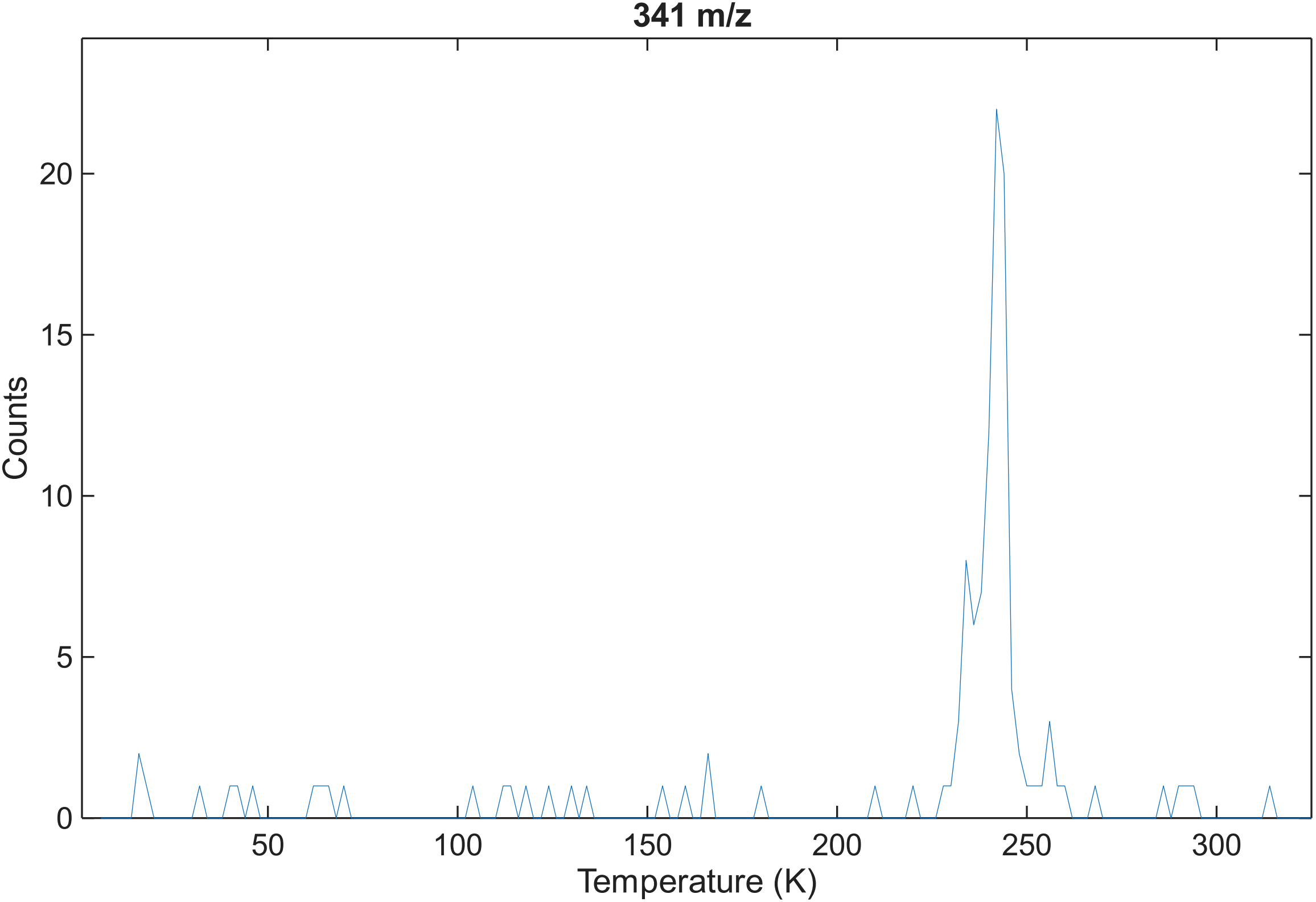
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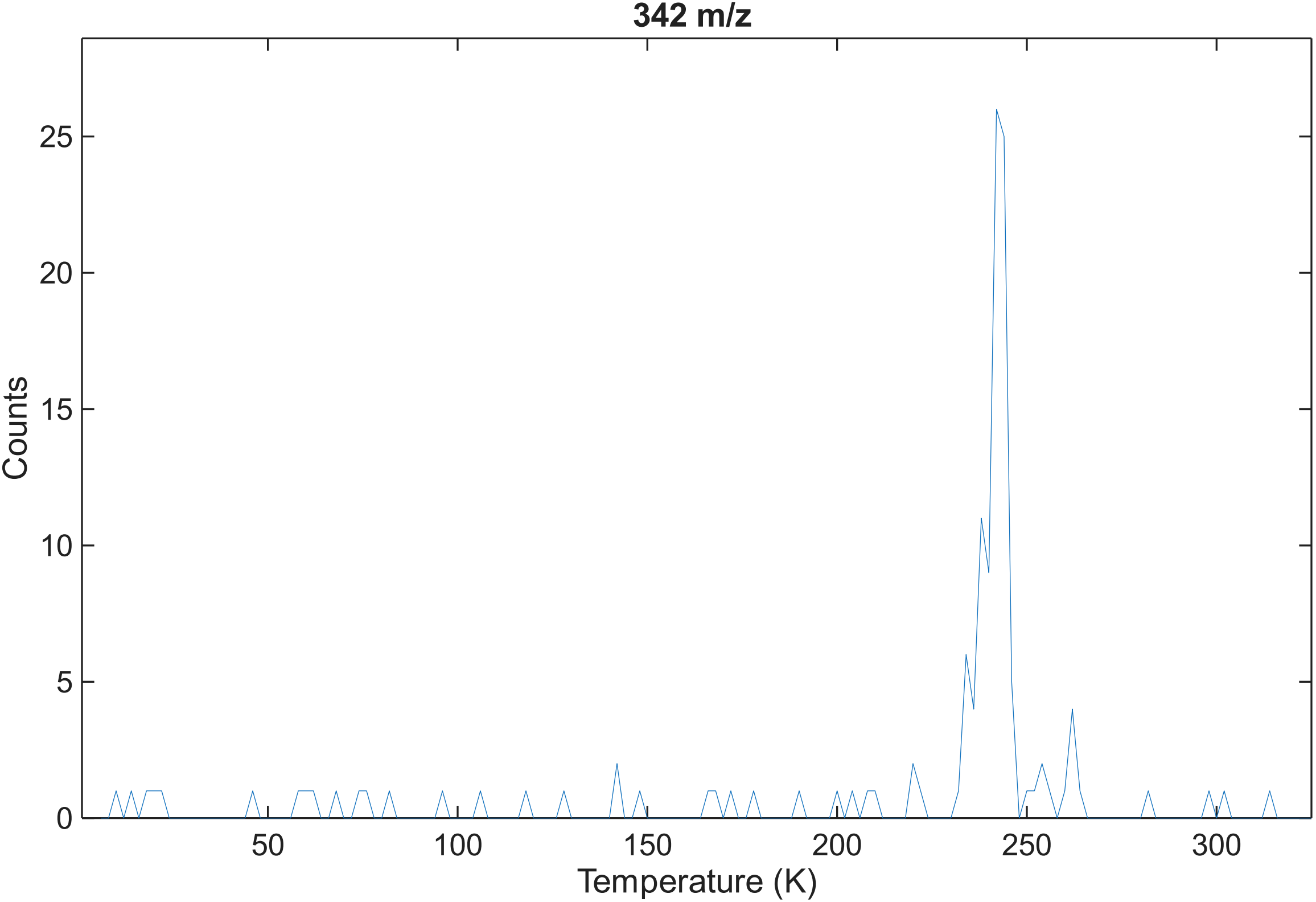
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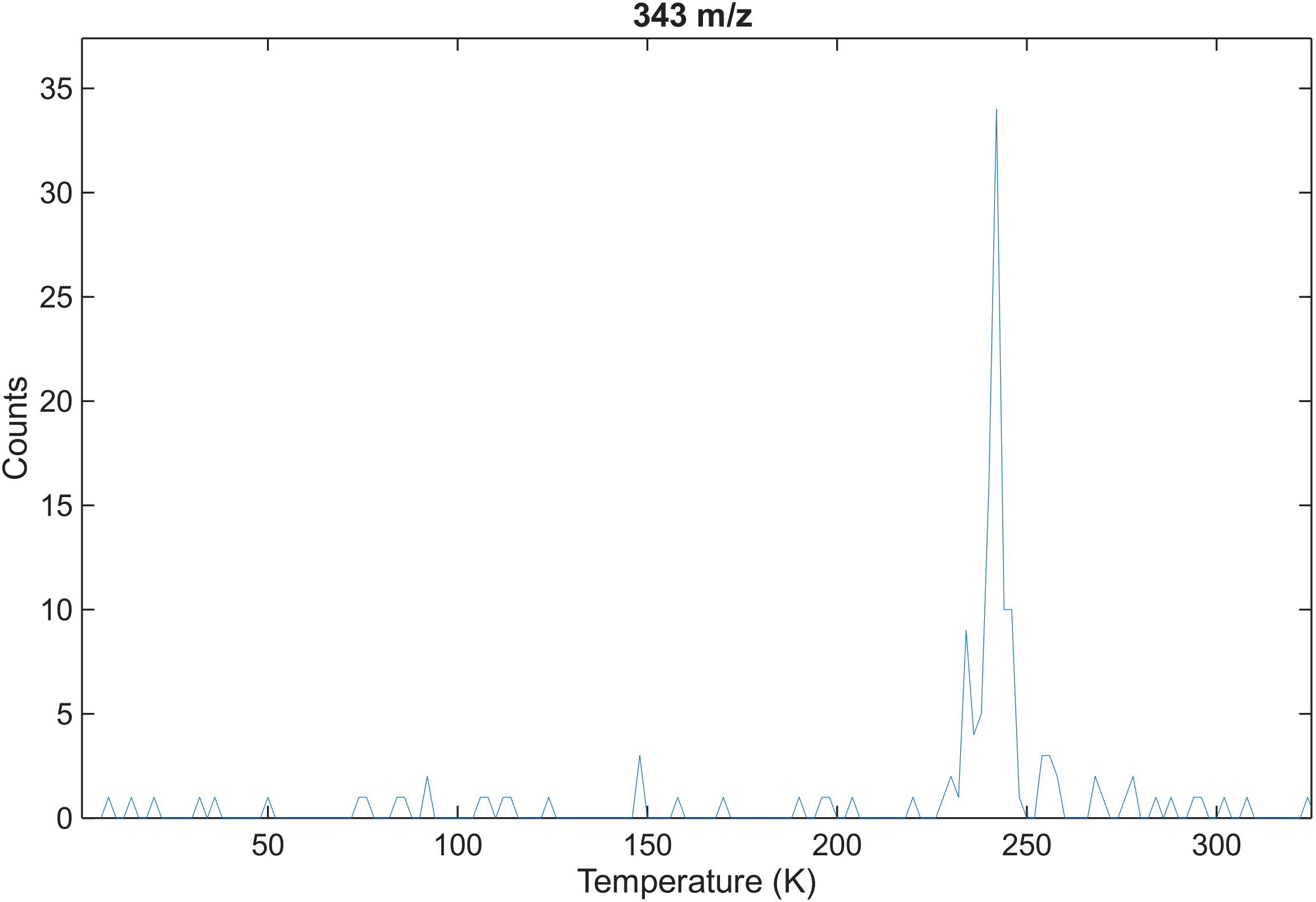
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Temperature (K)
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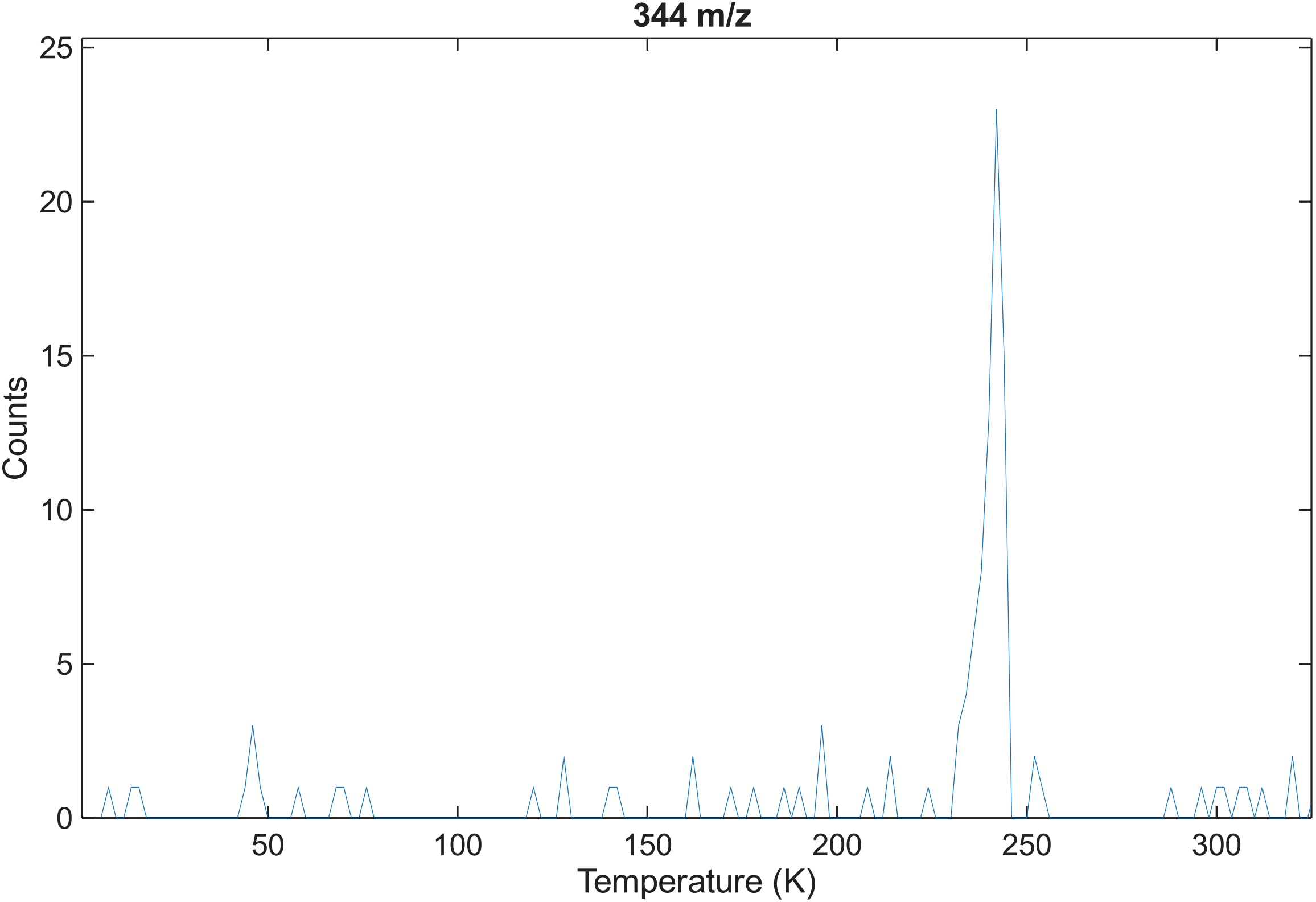
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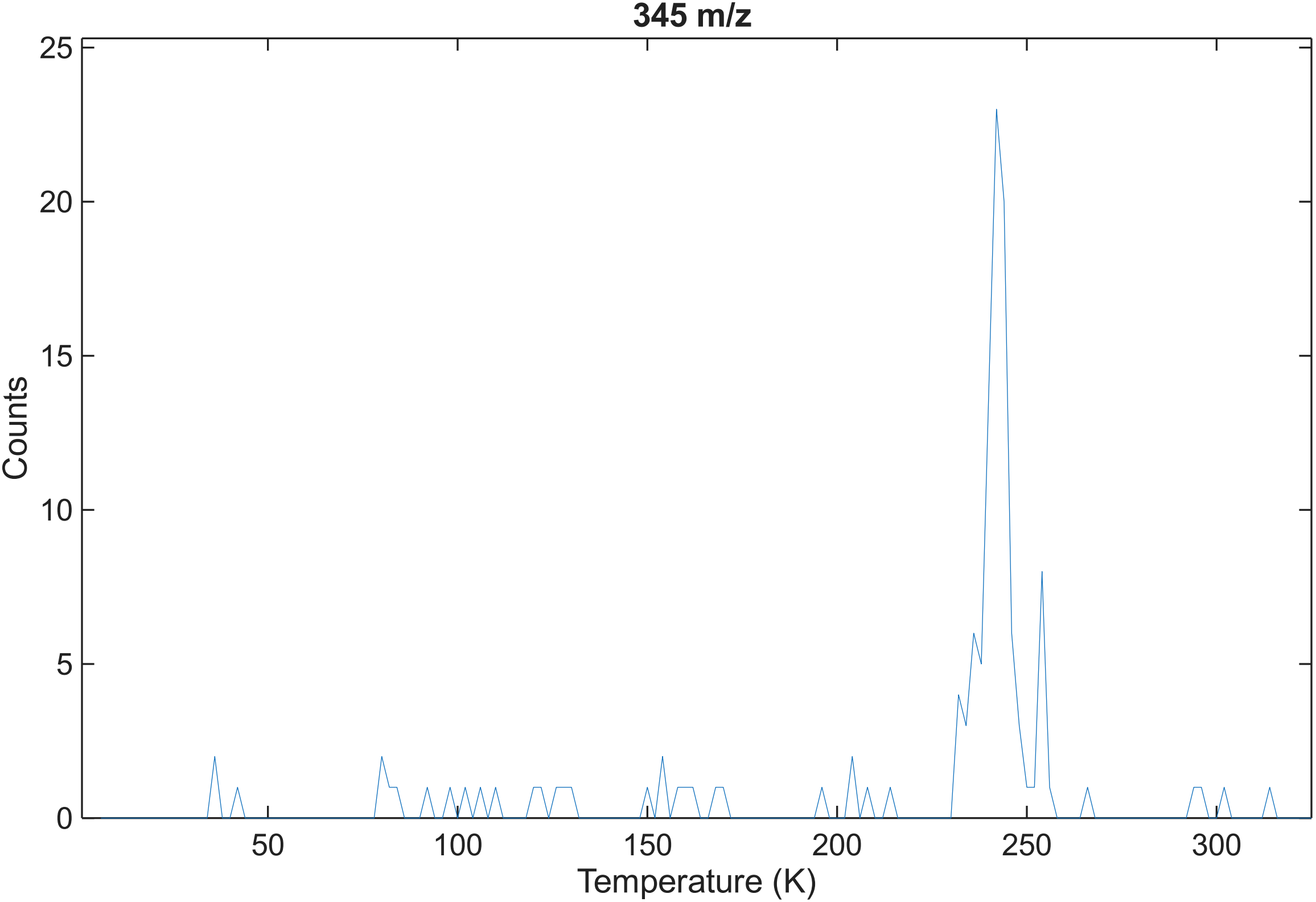
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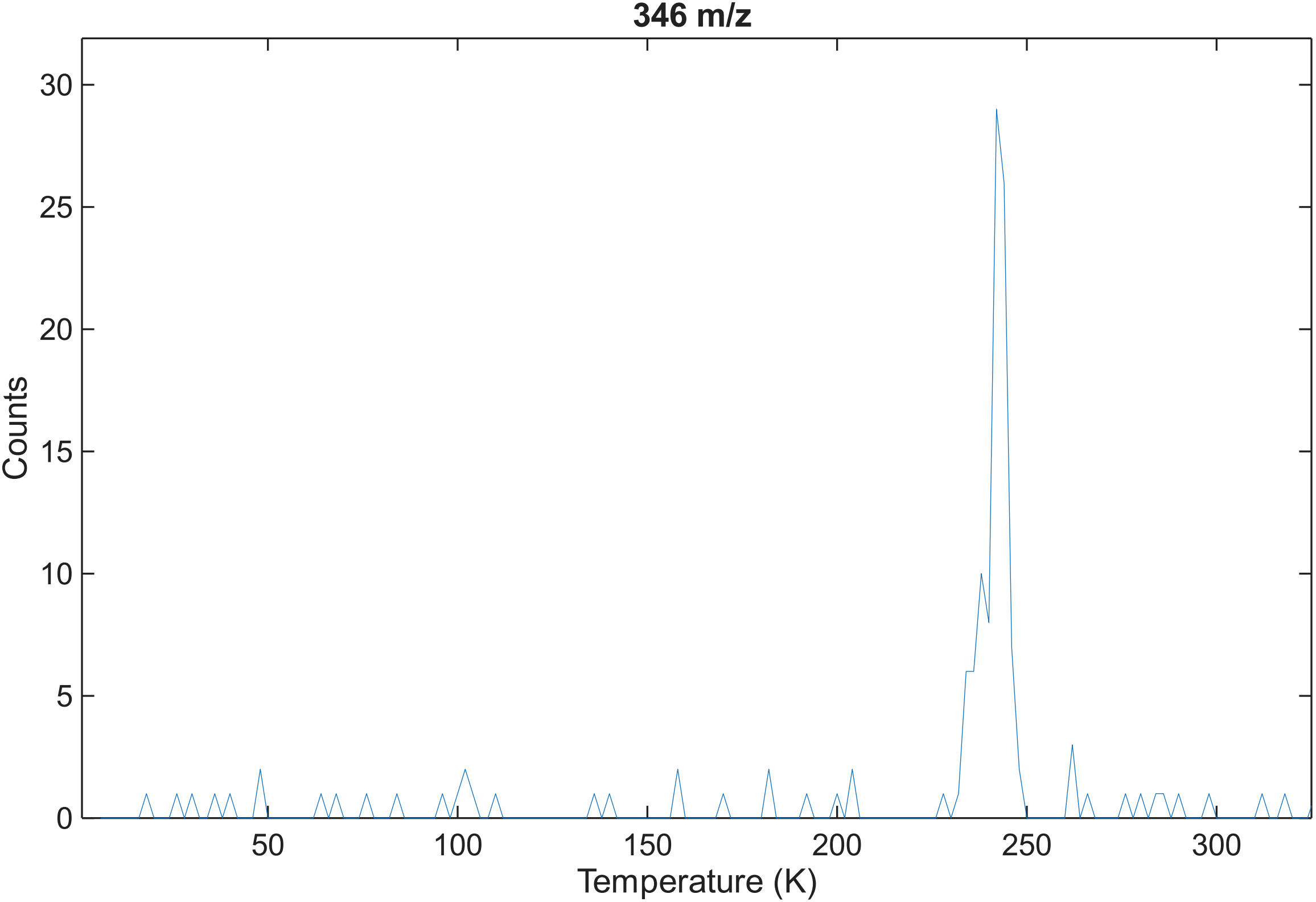
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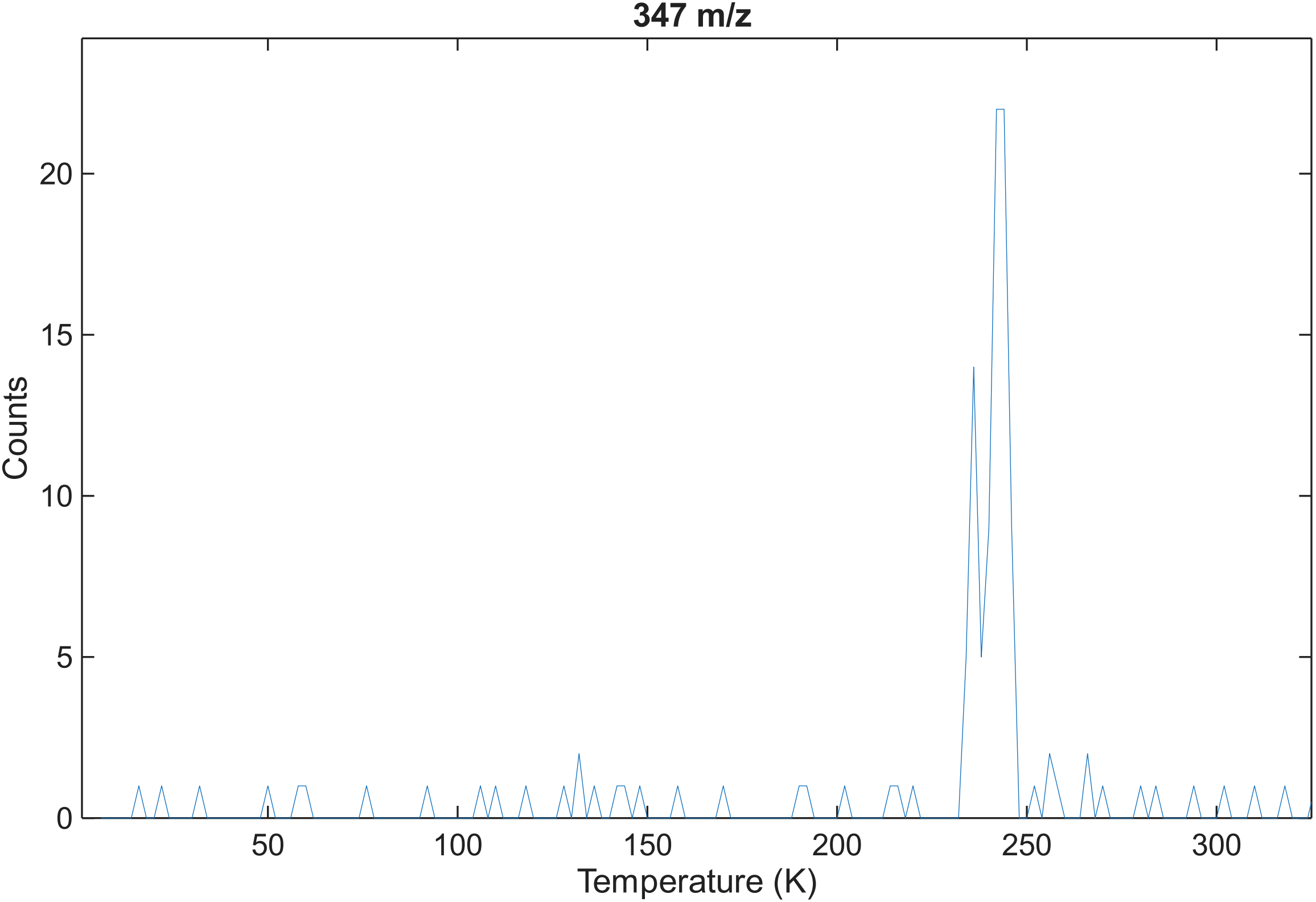
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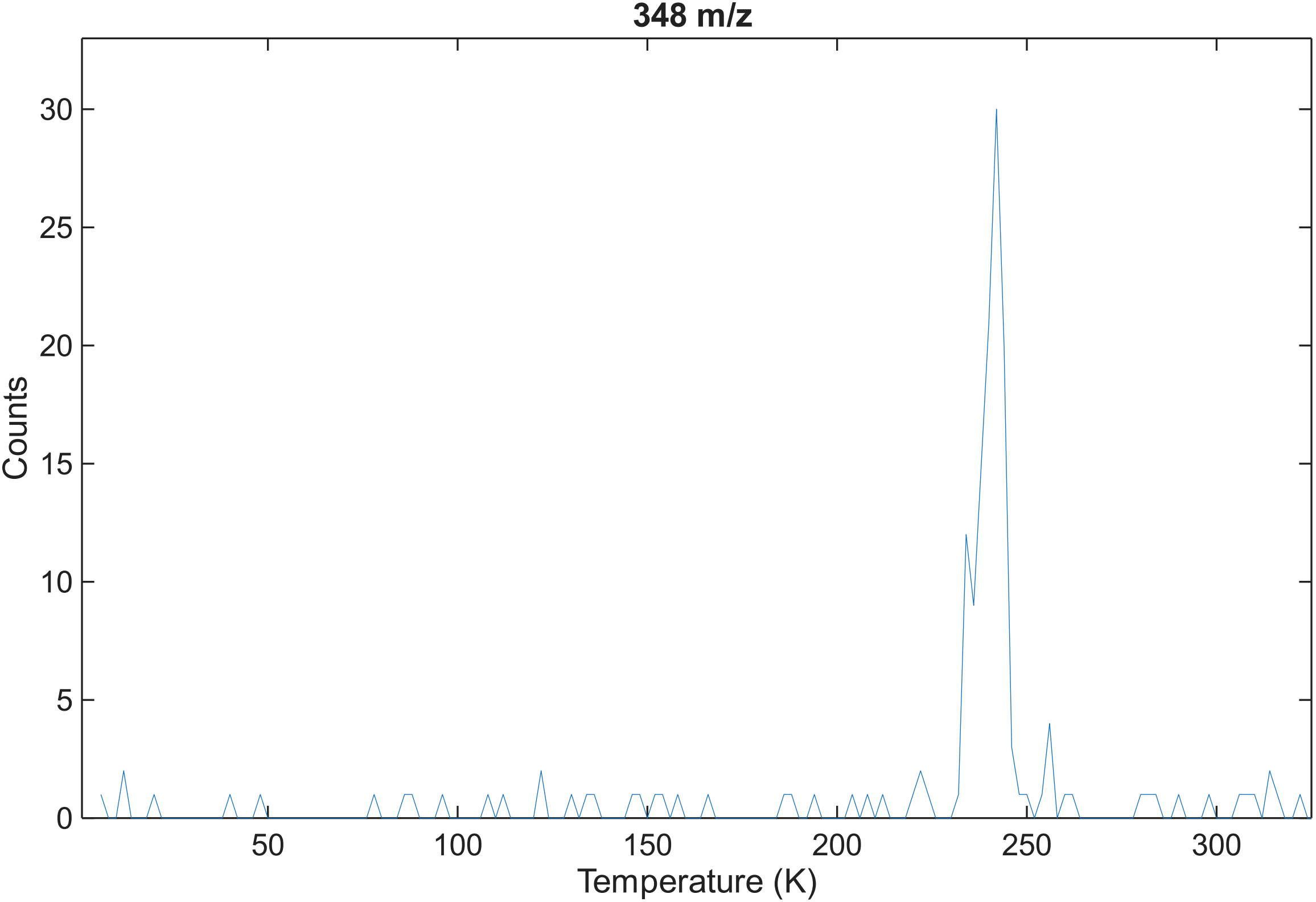
Temperature (K)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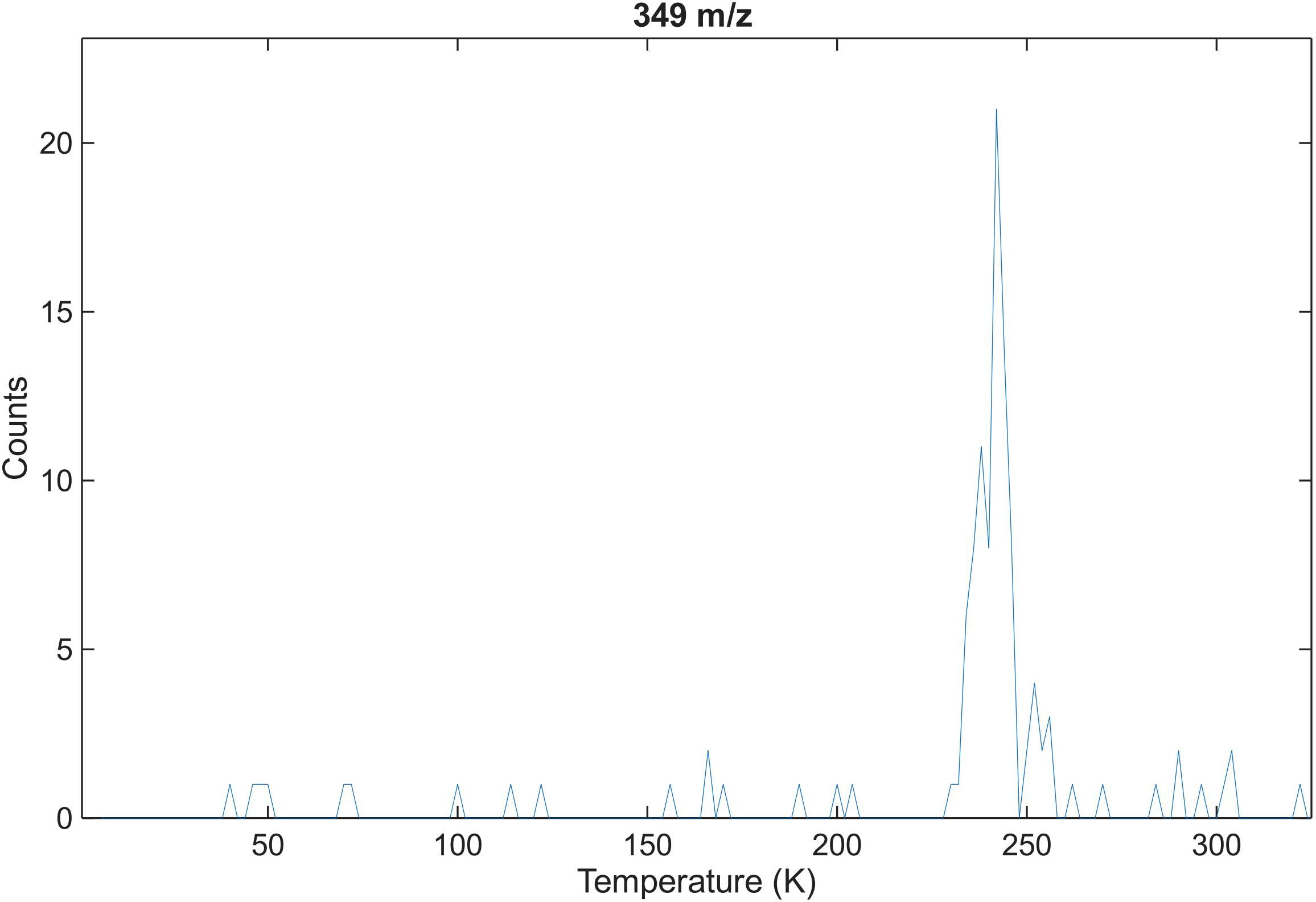
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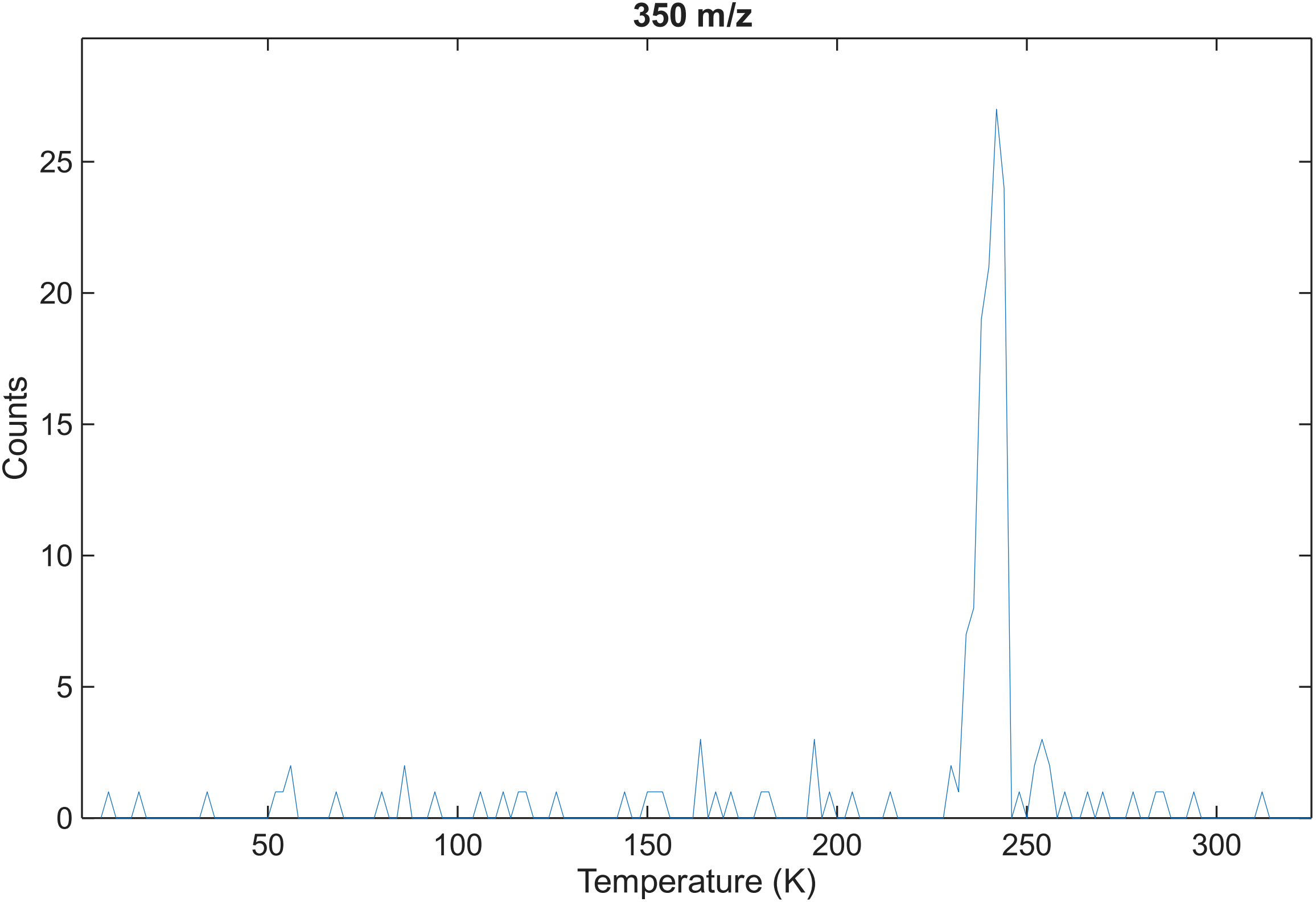
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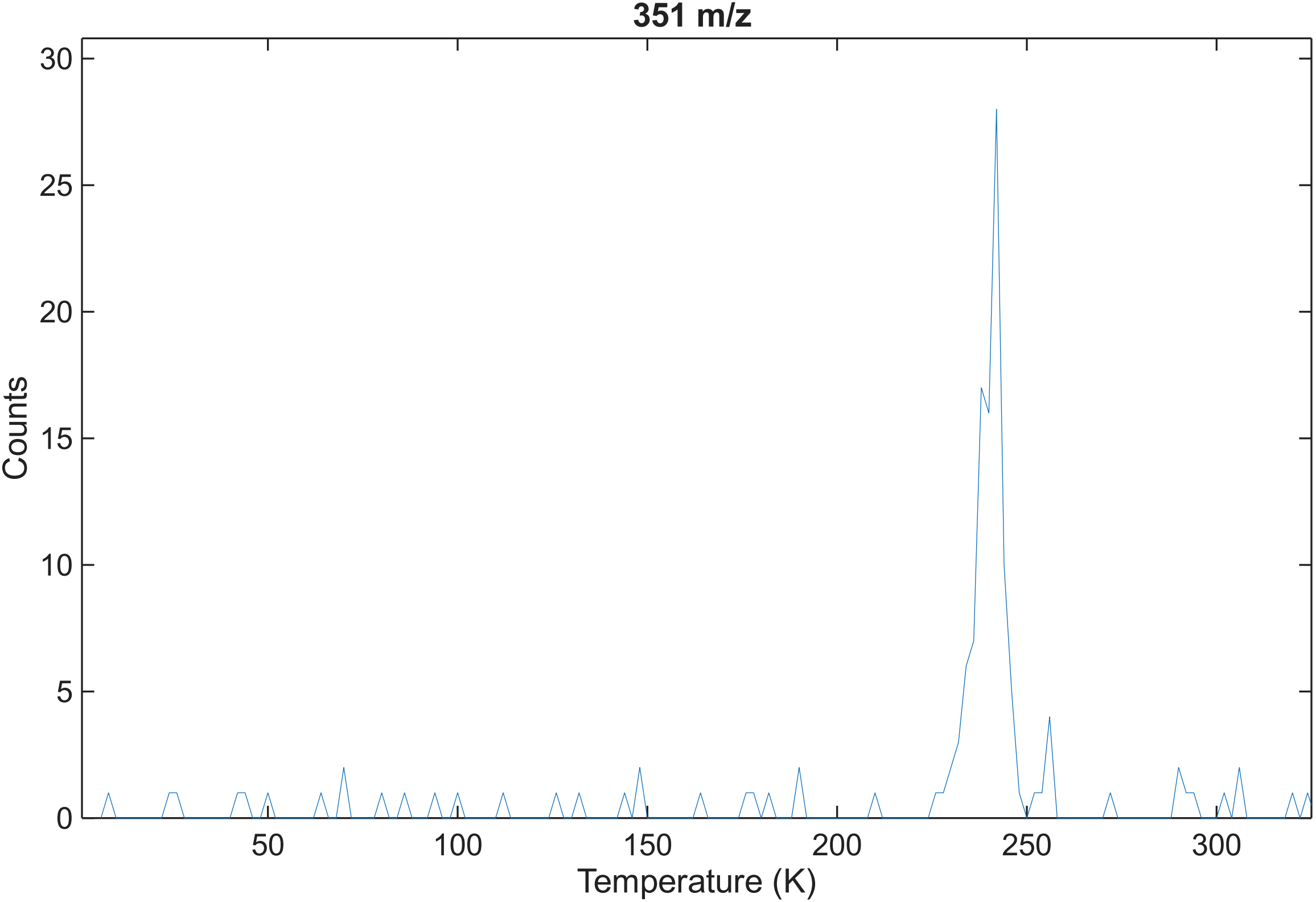
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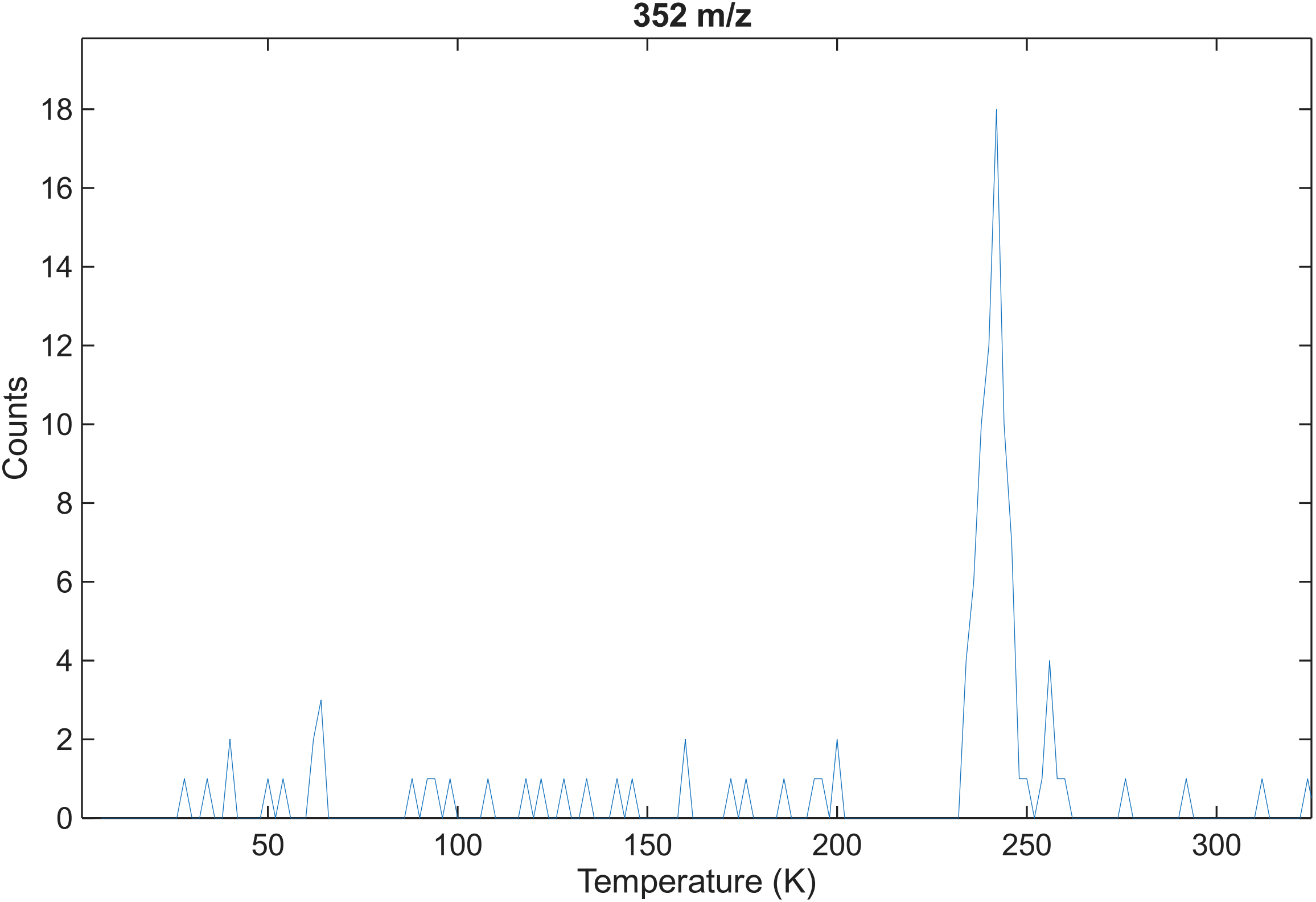
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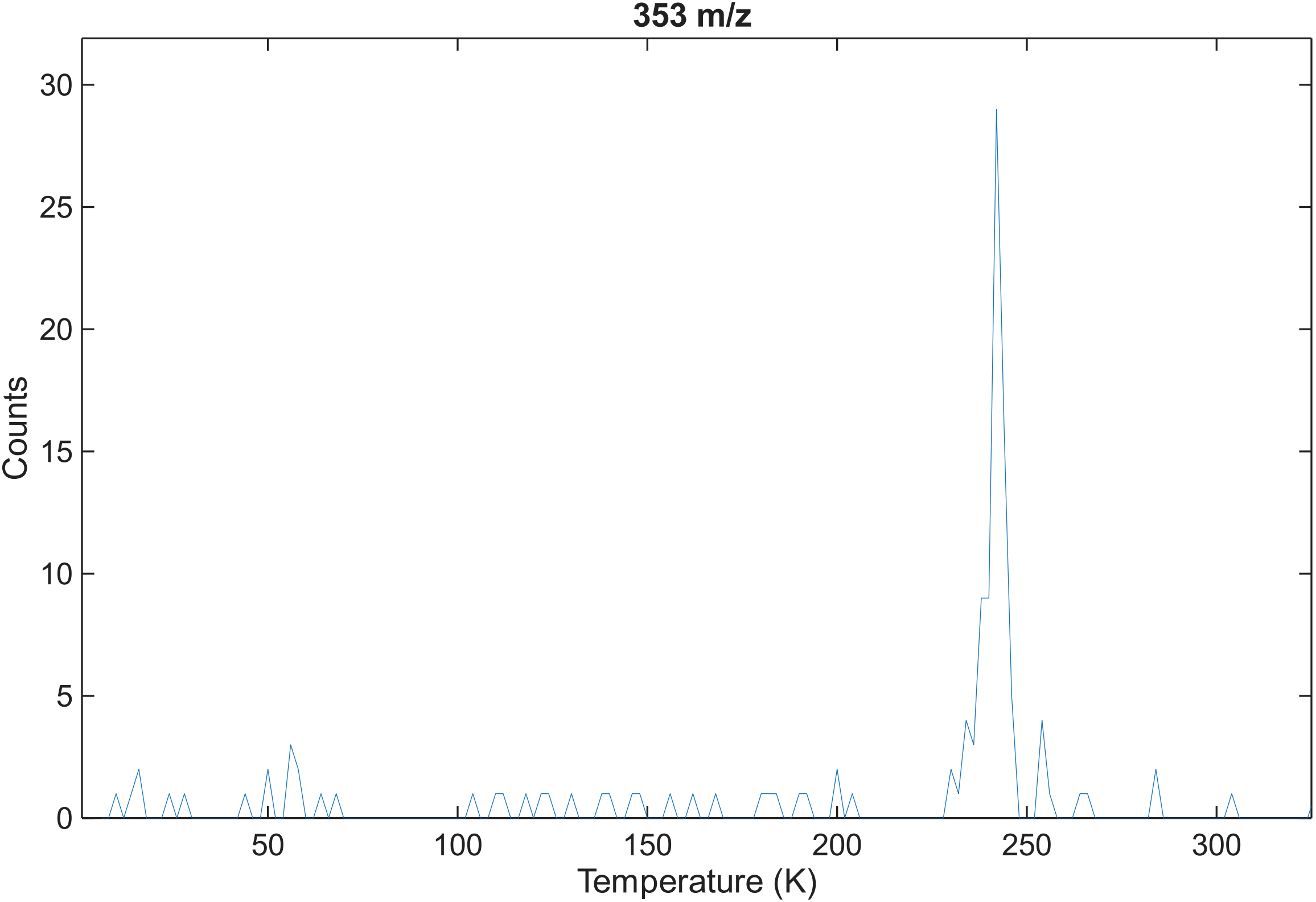
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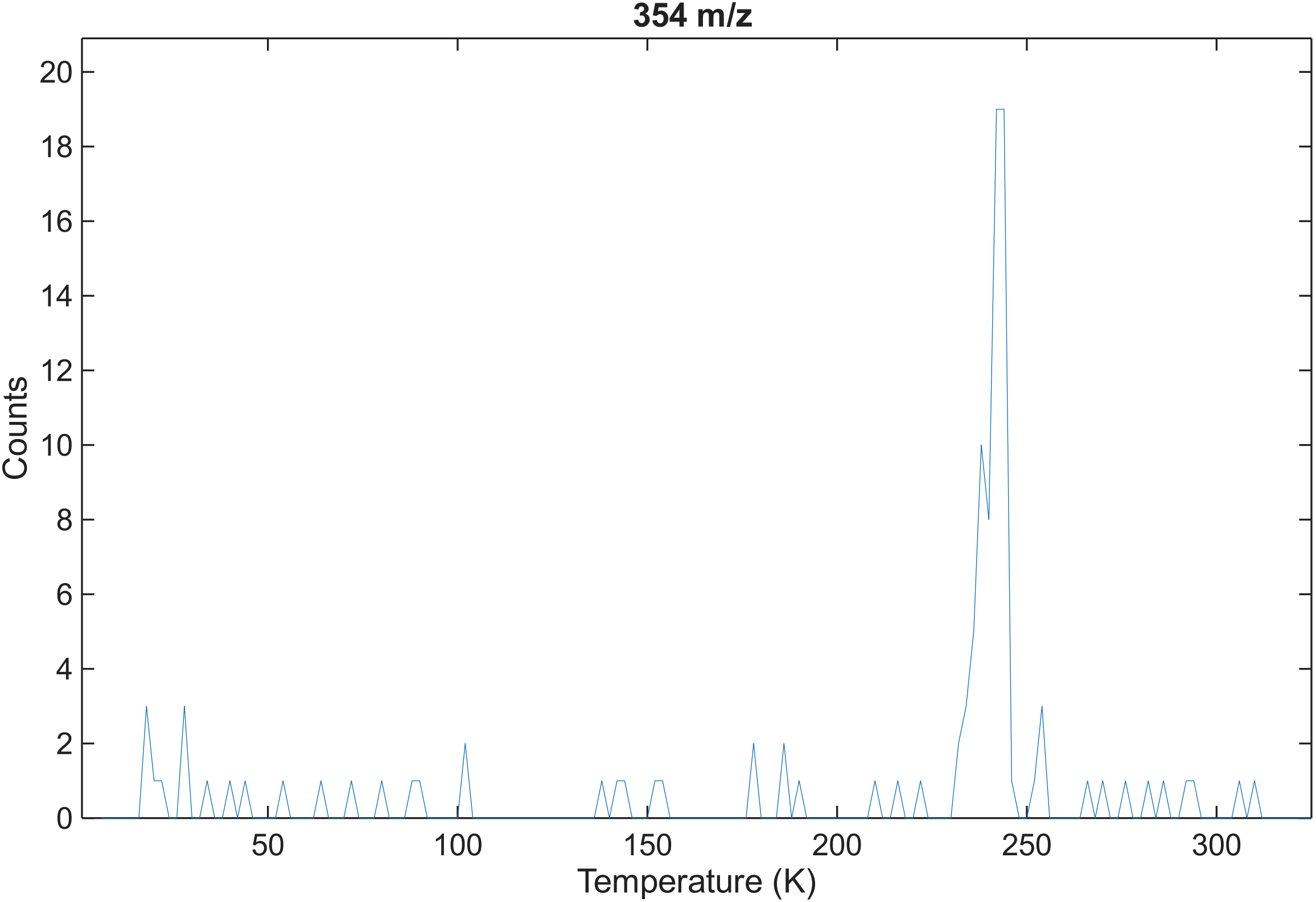
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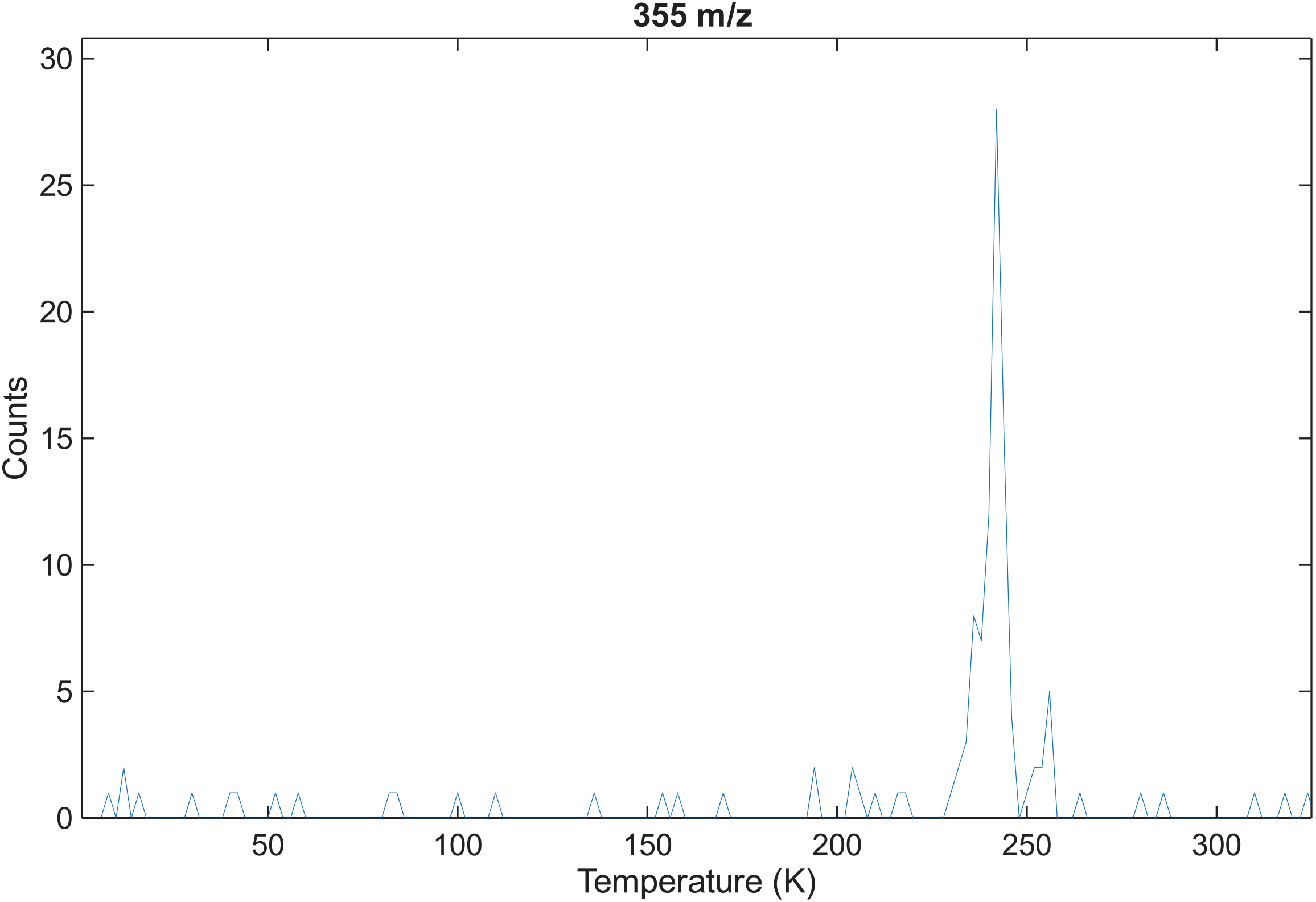
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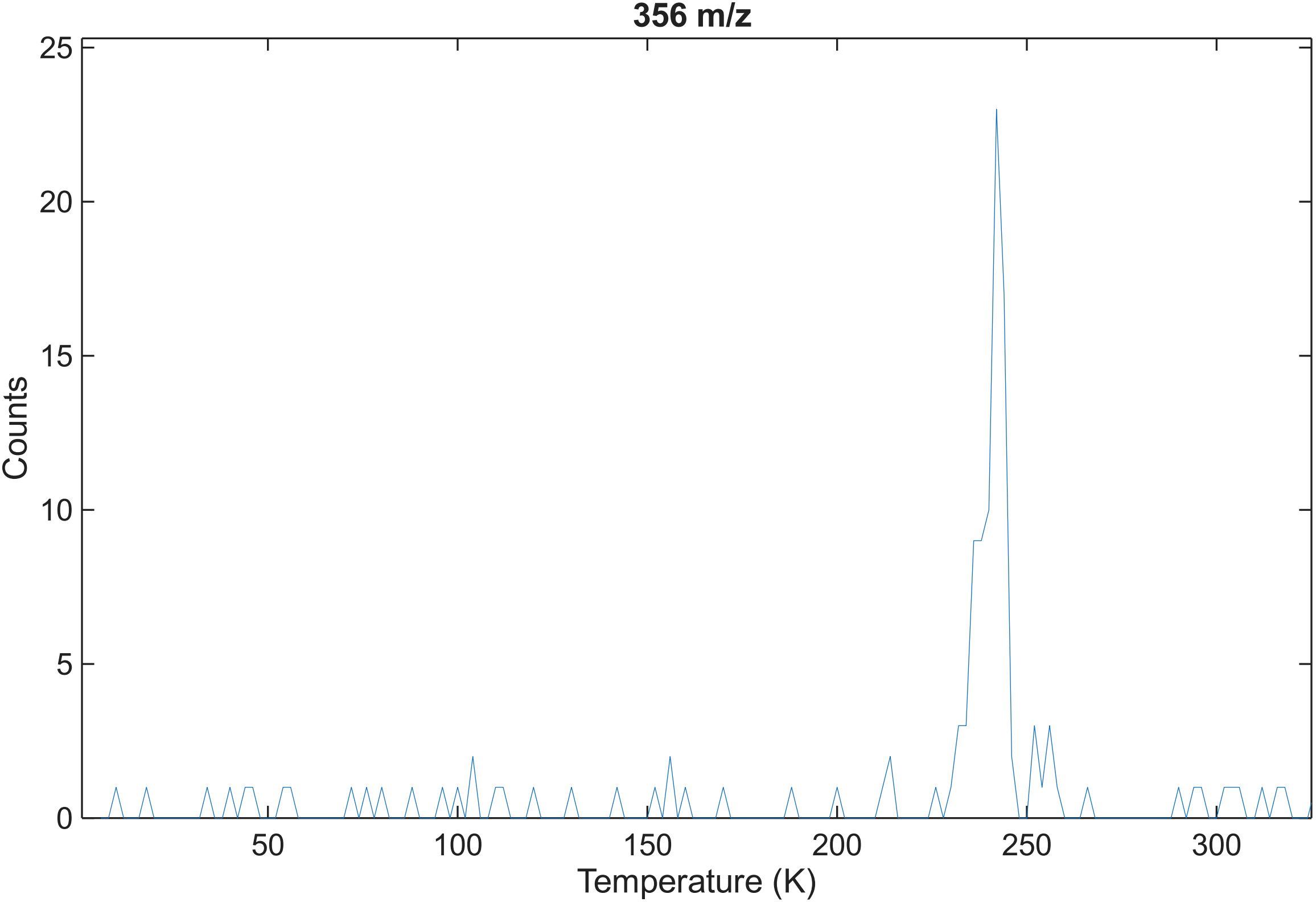
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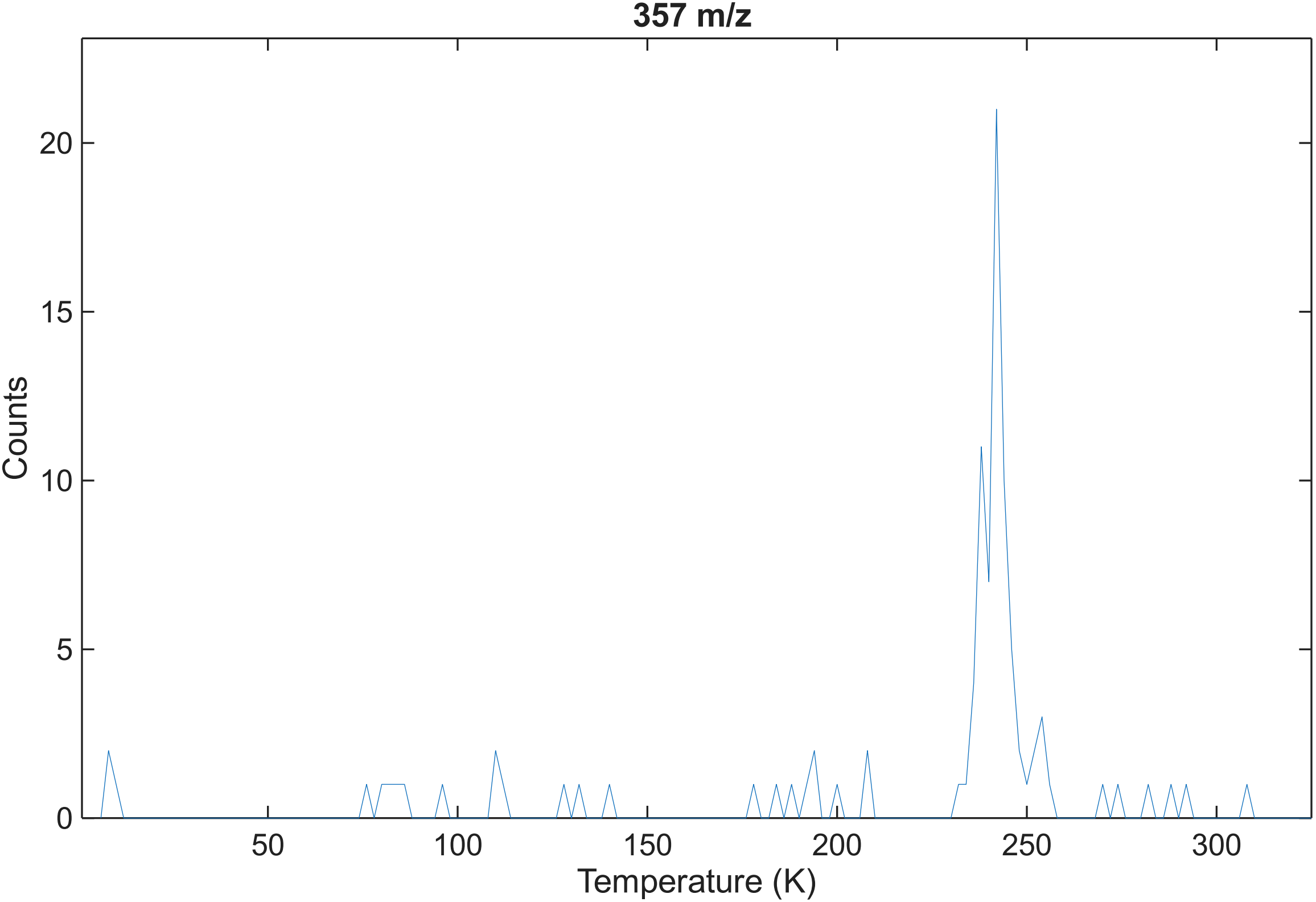
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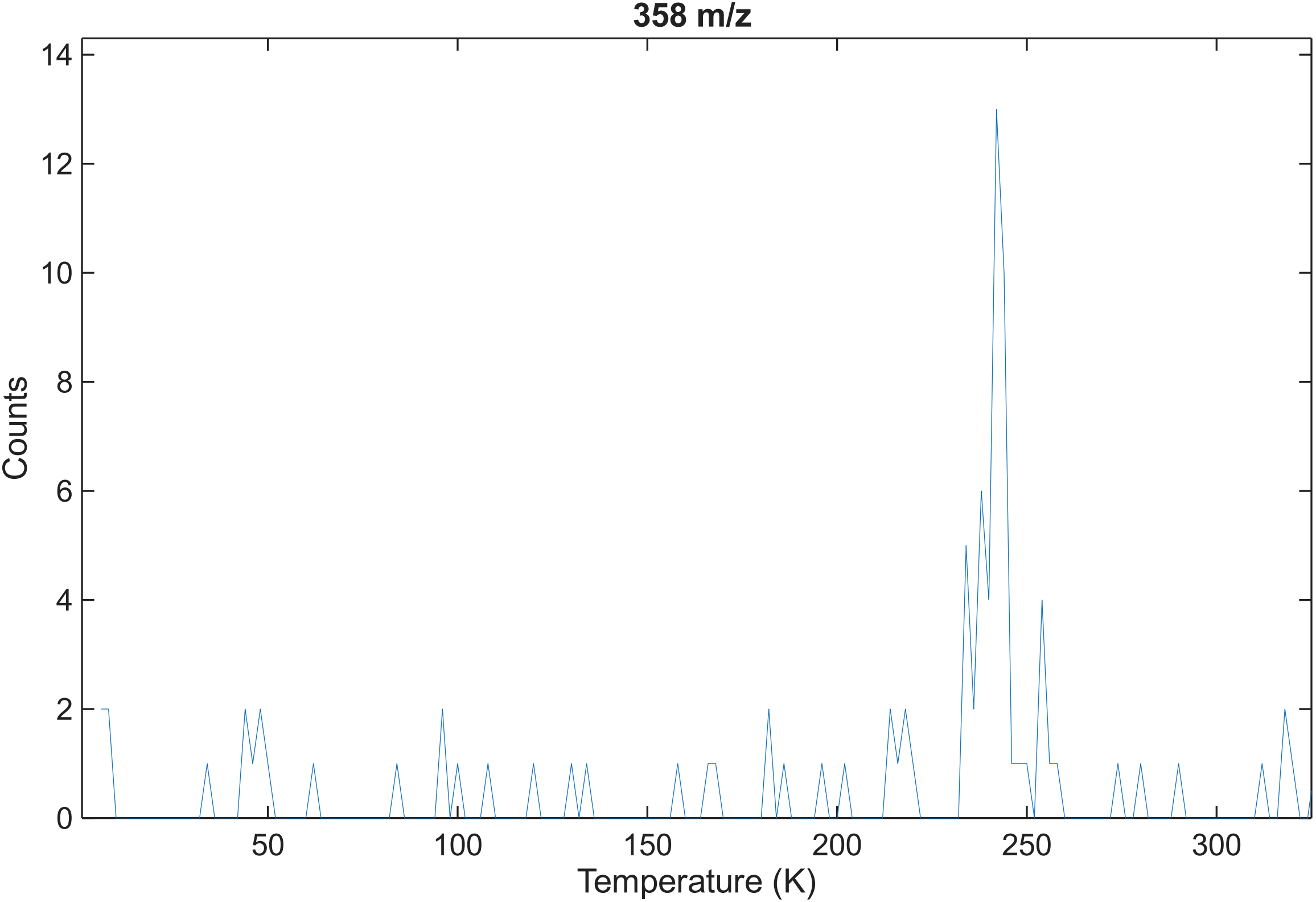
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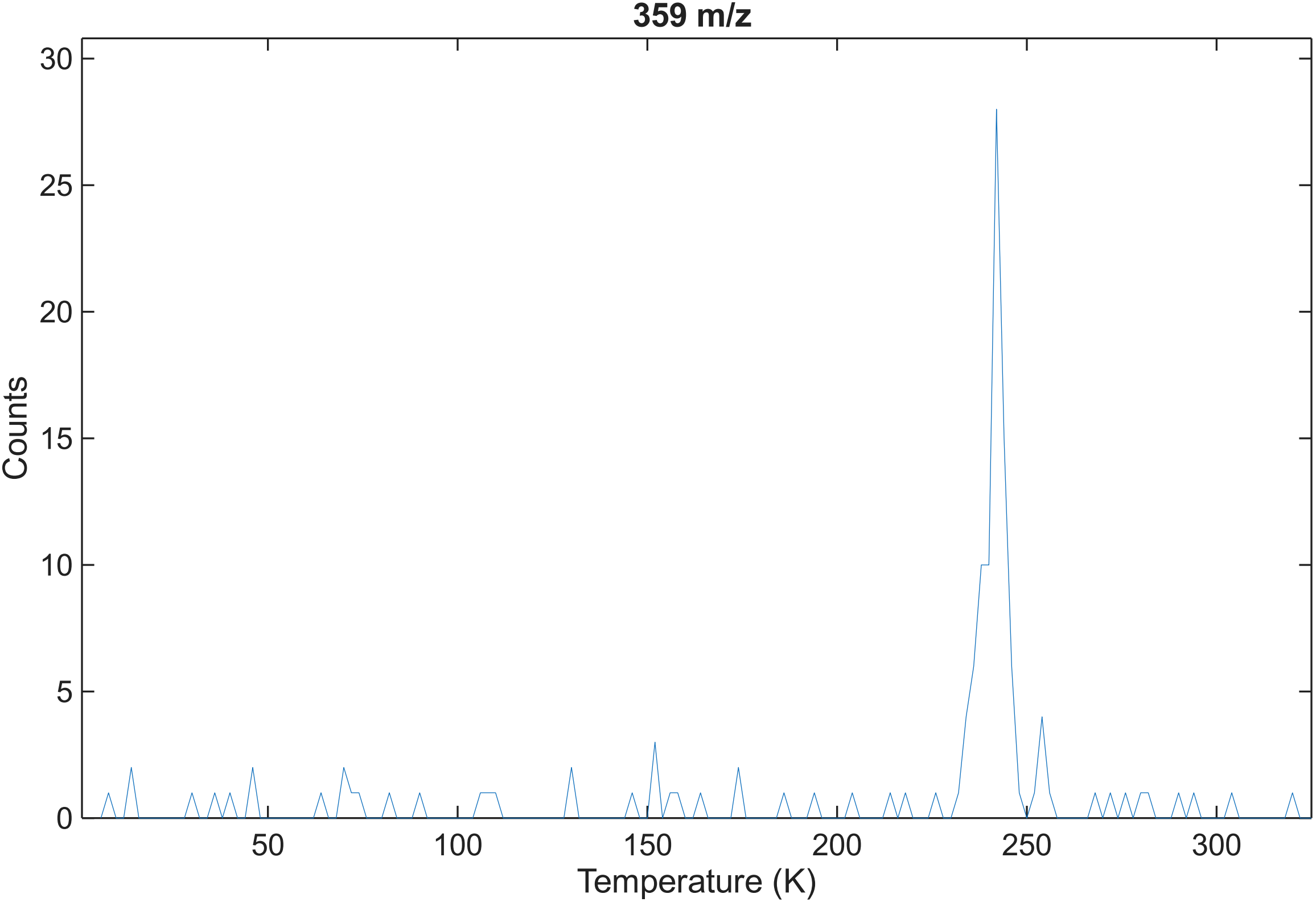
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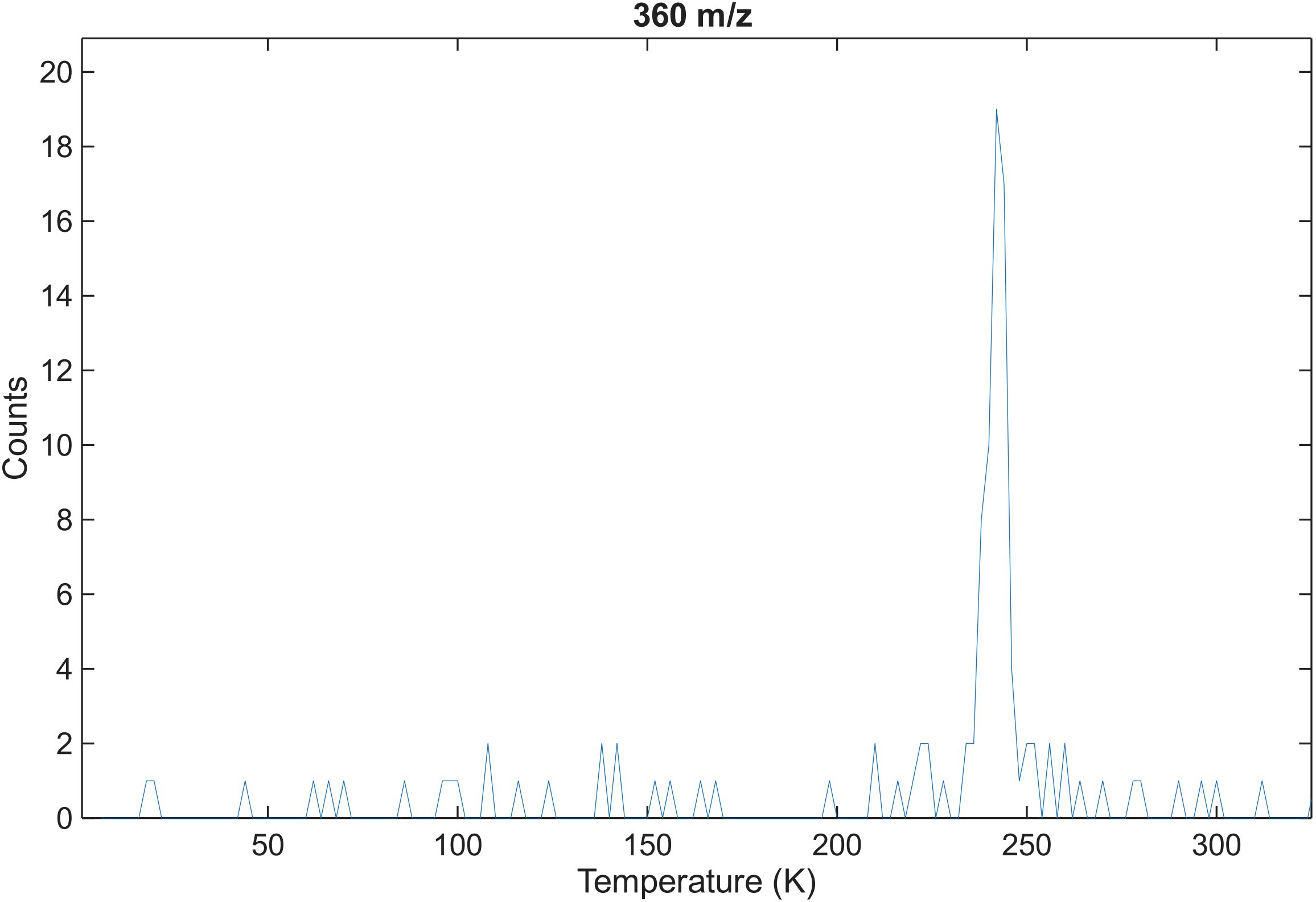
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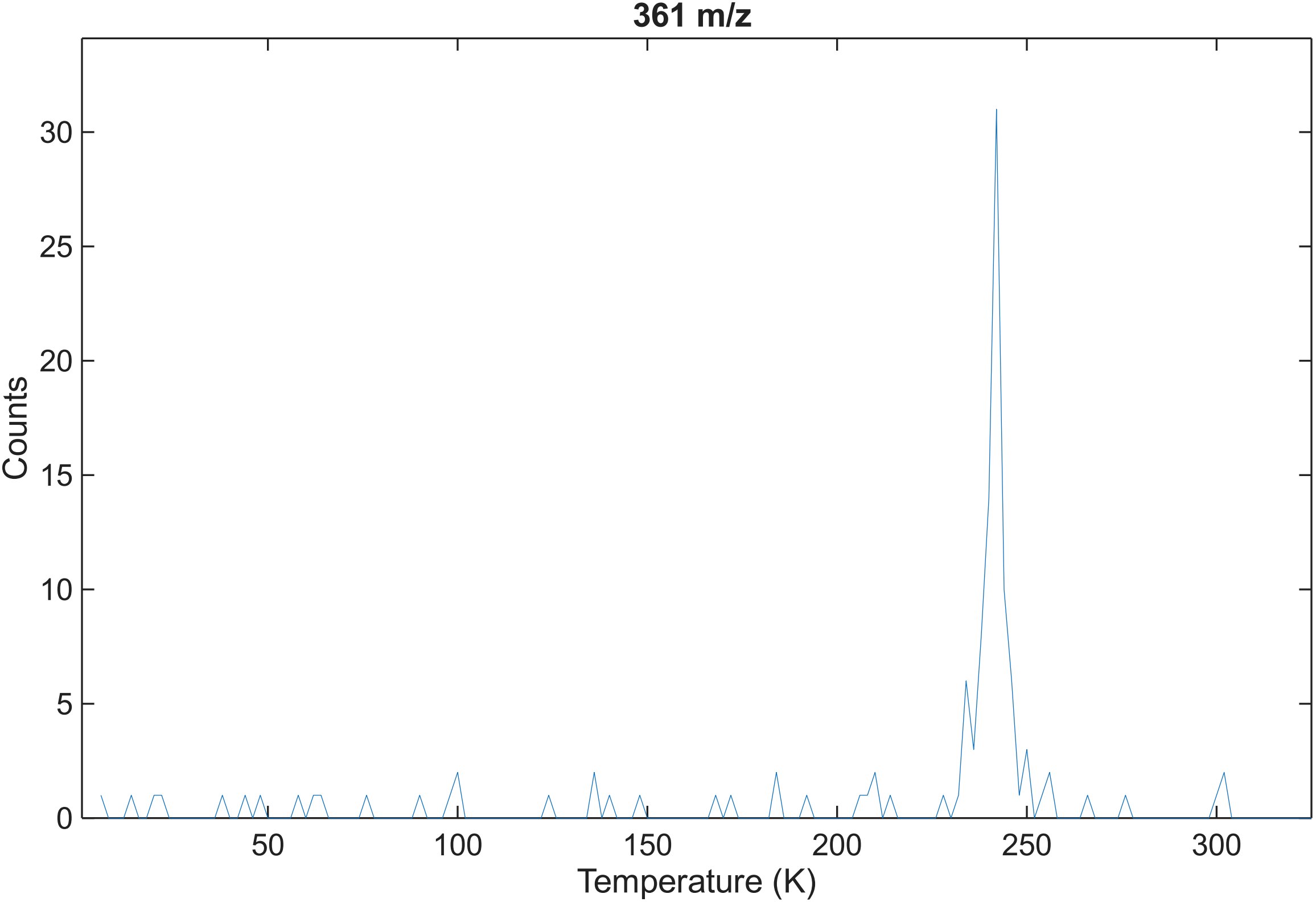
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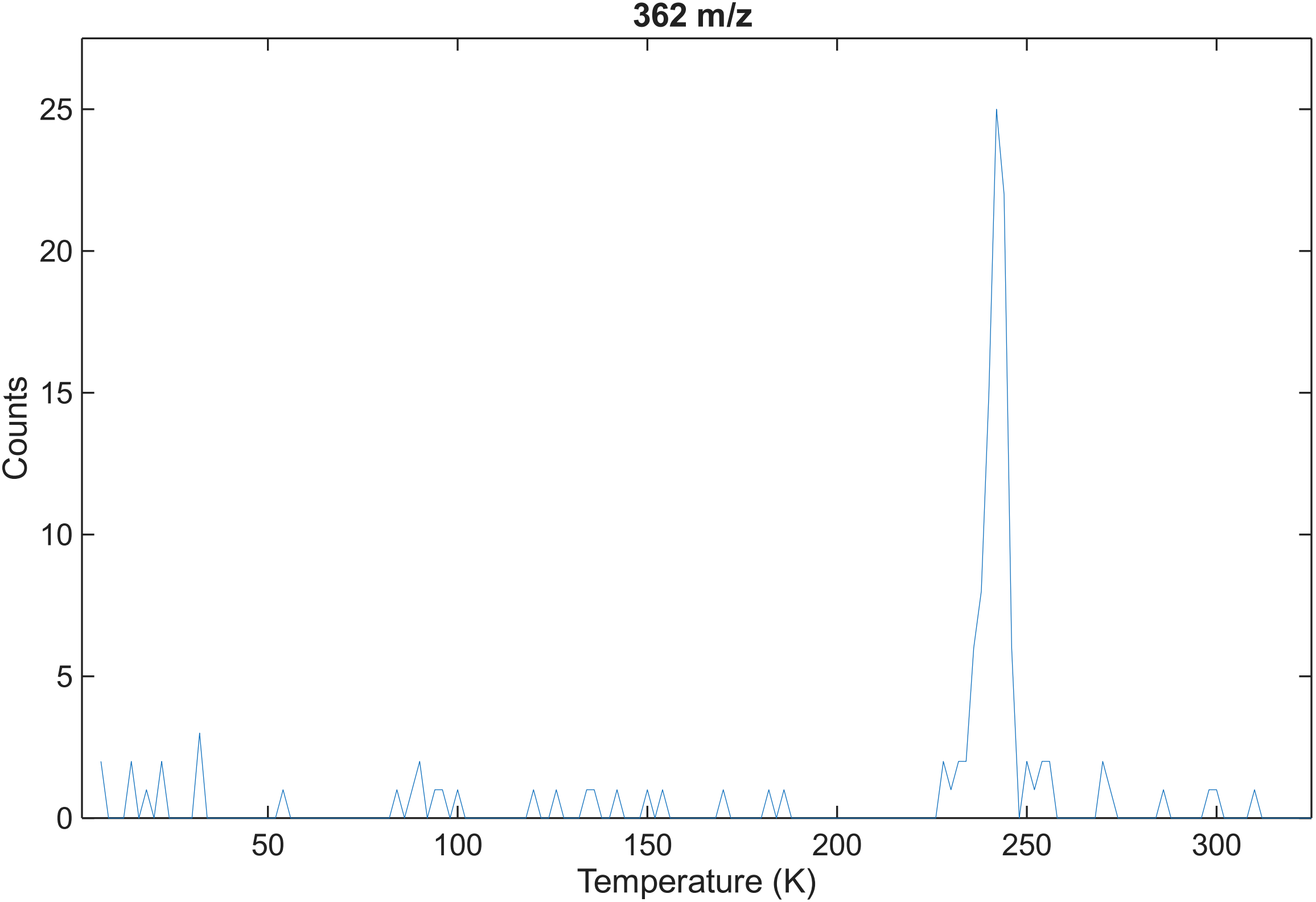
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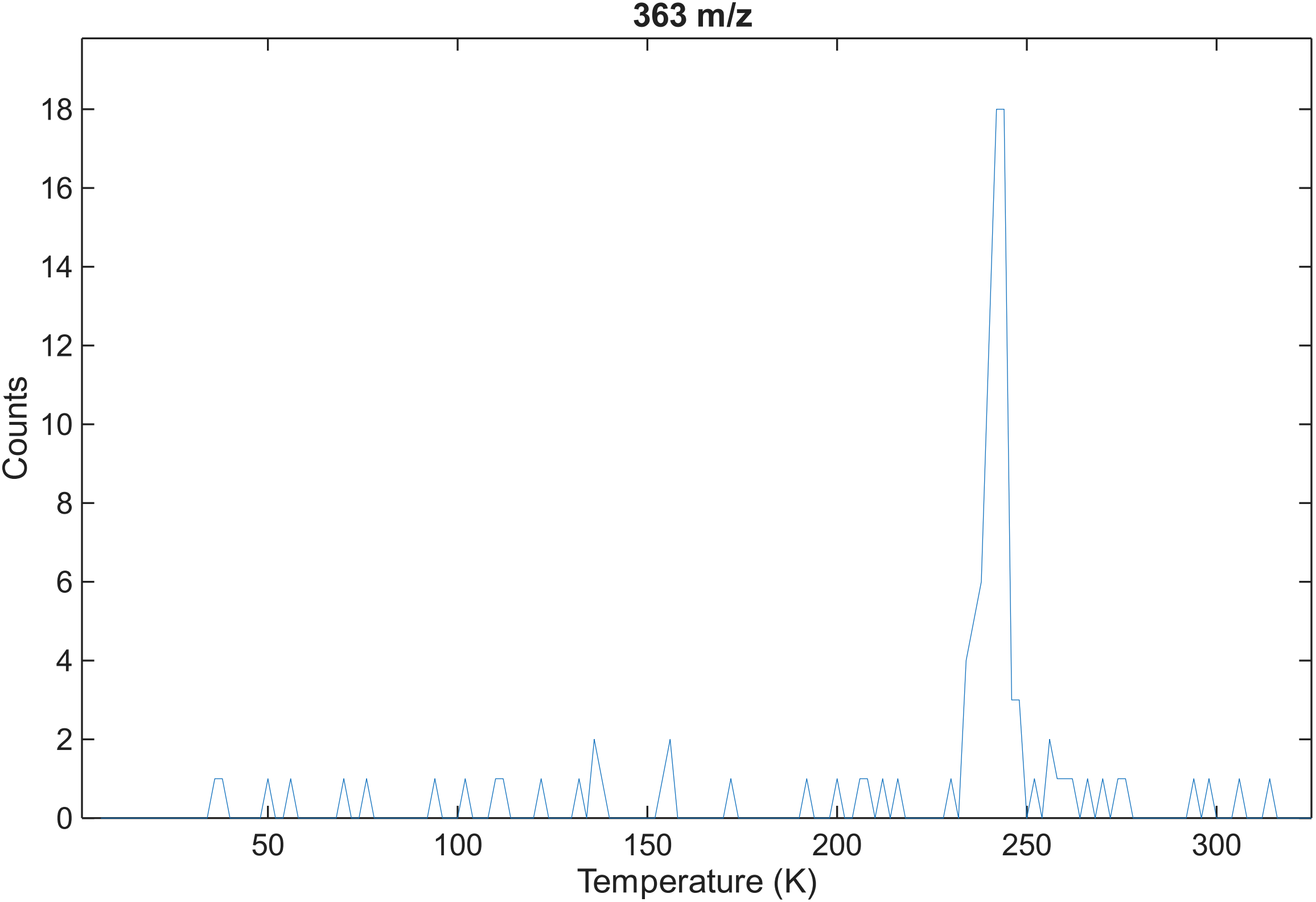
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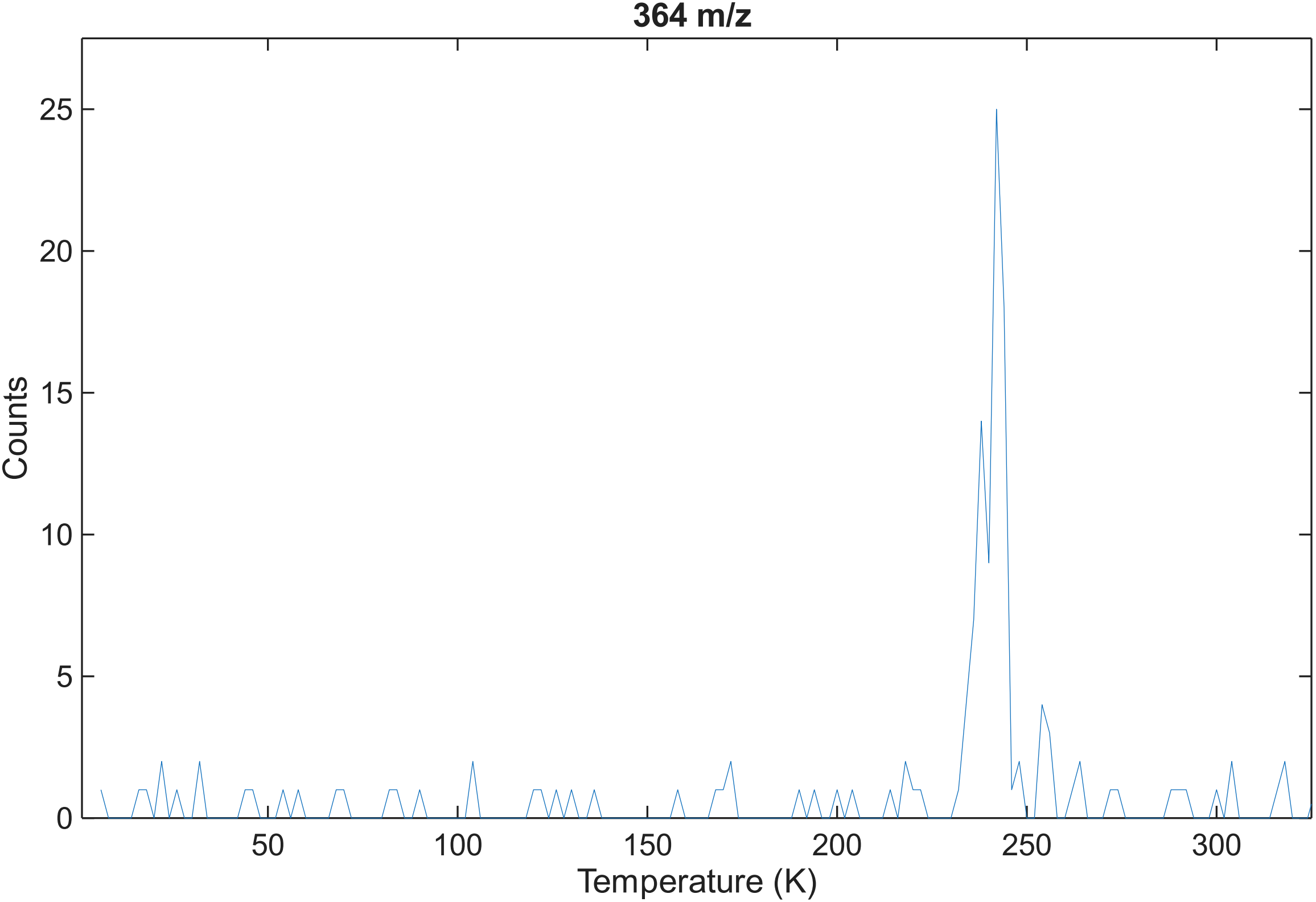
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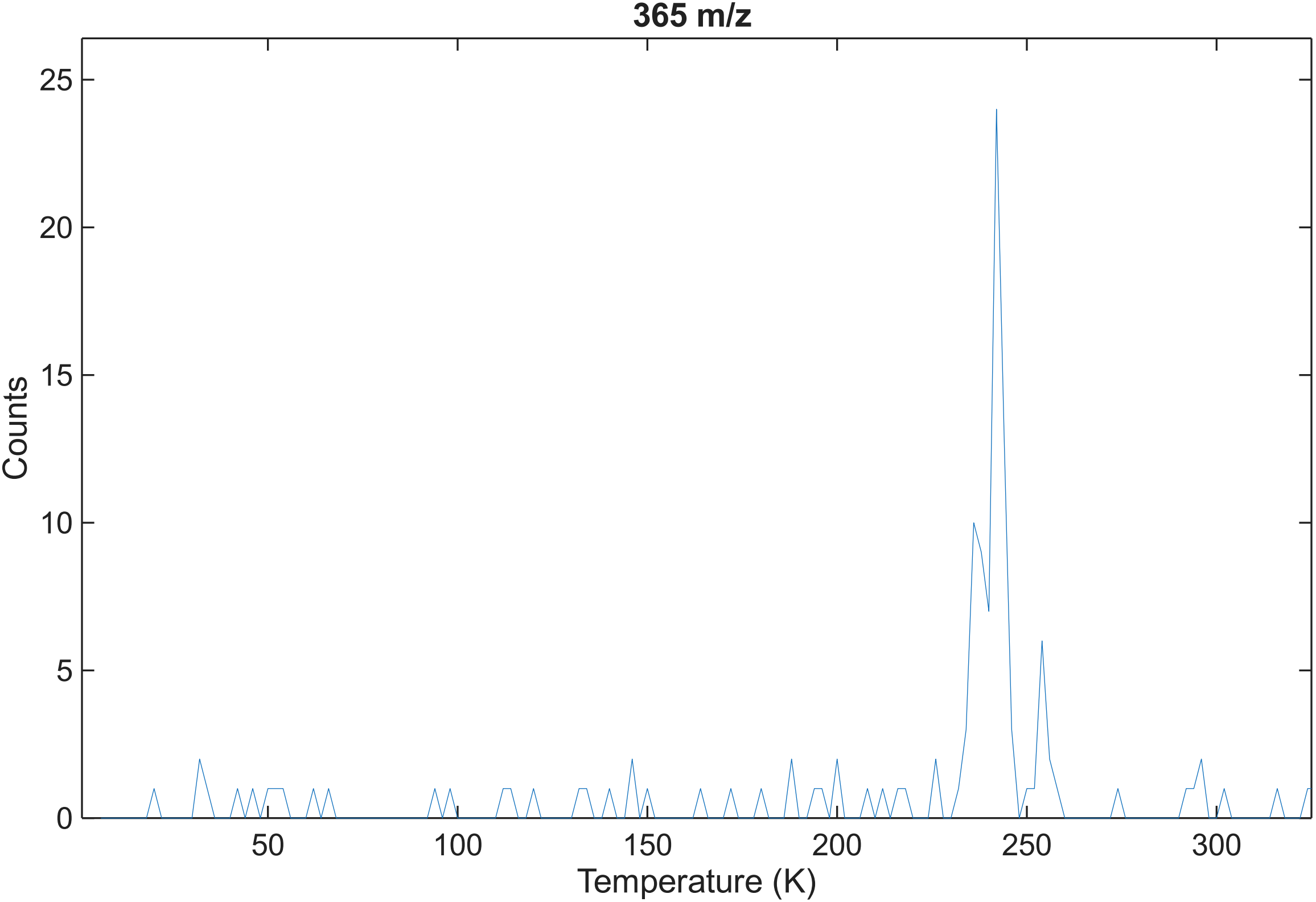
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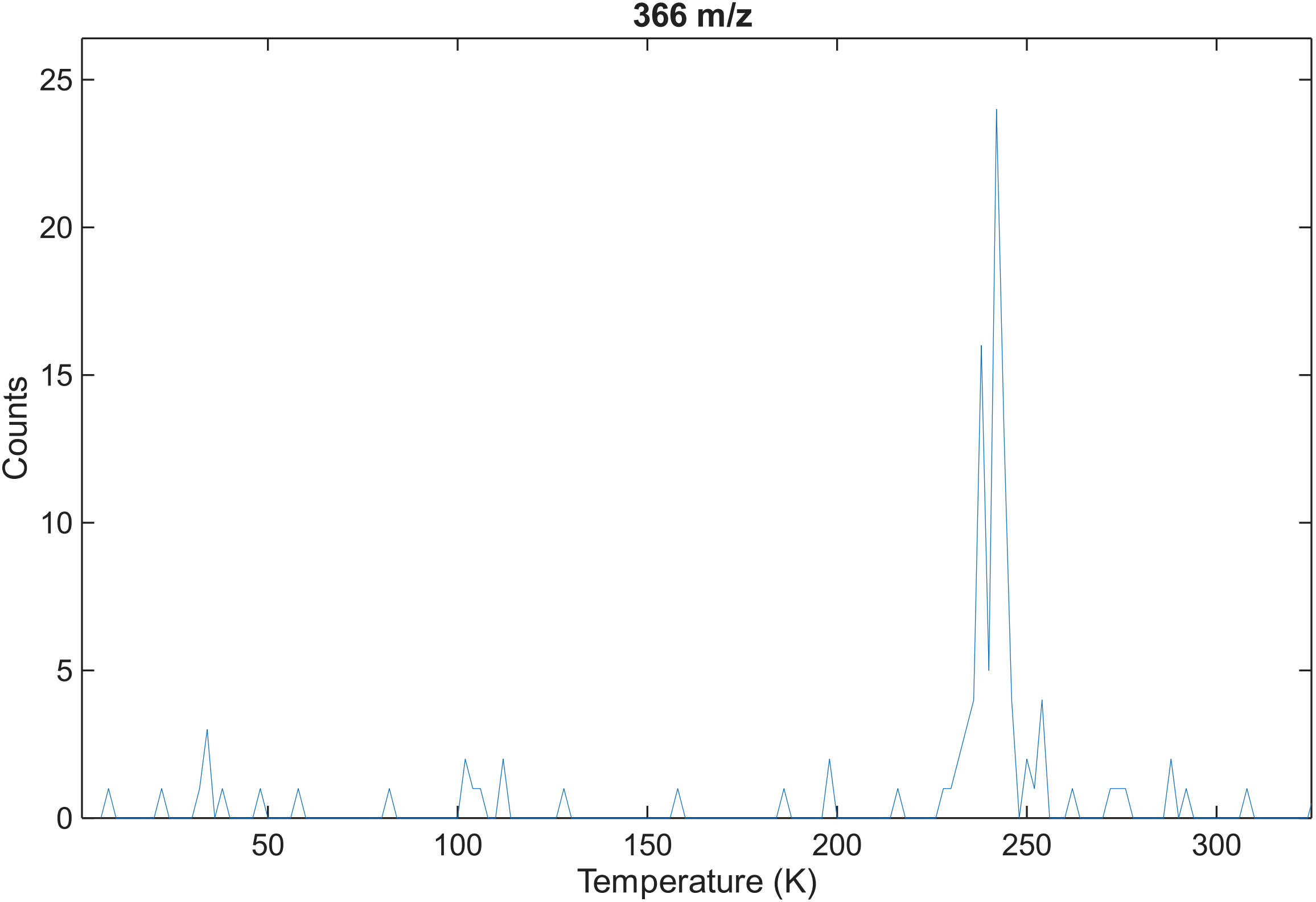
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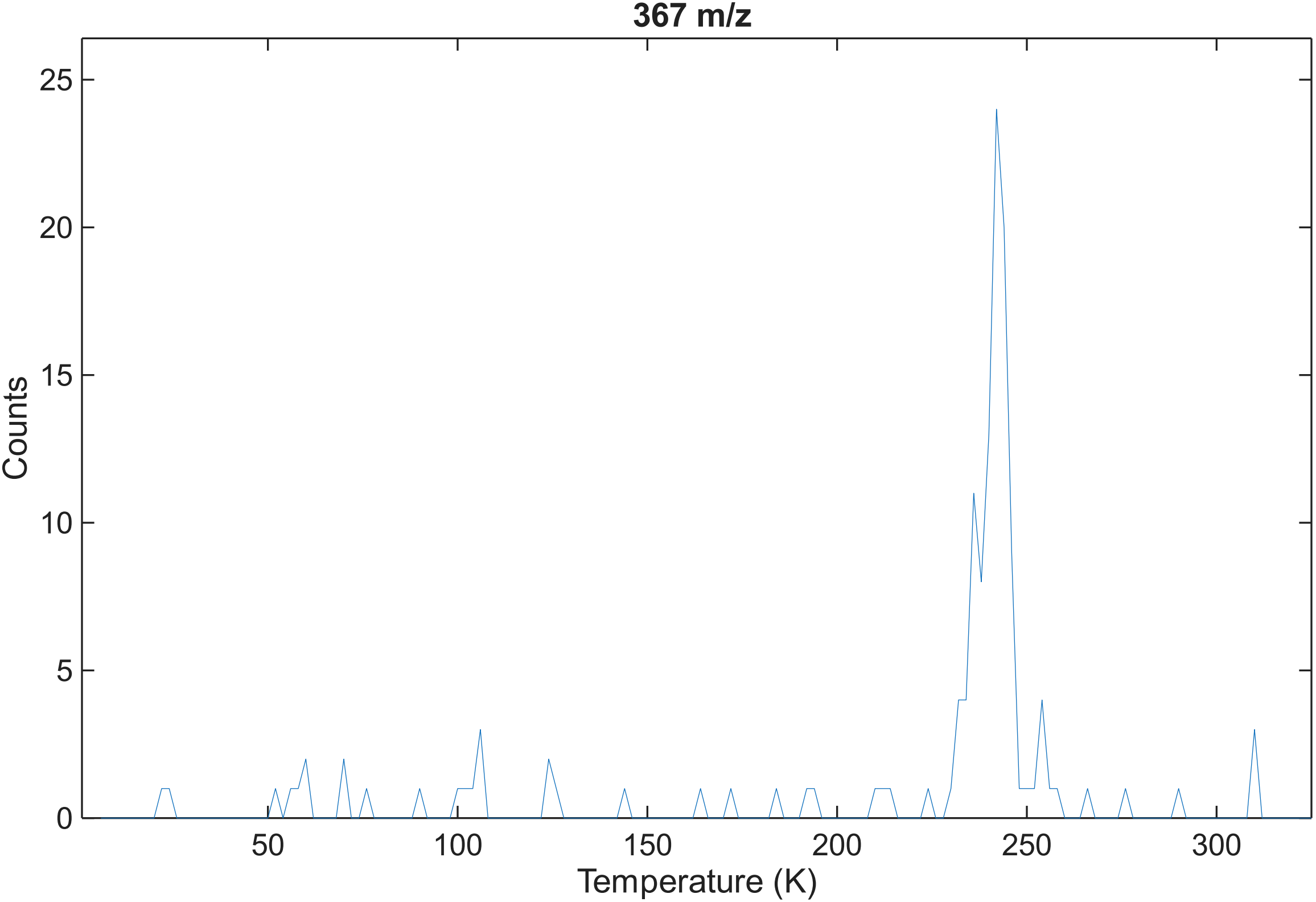
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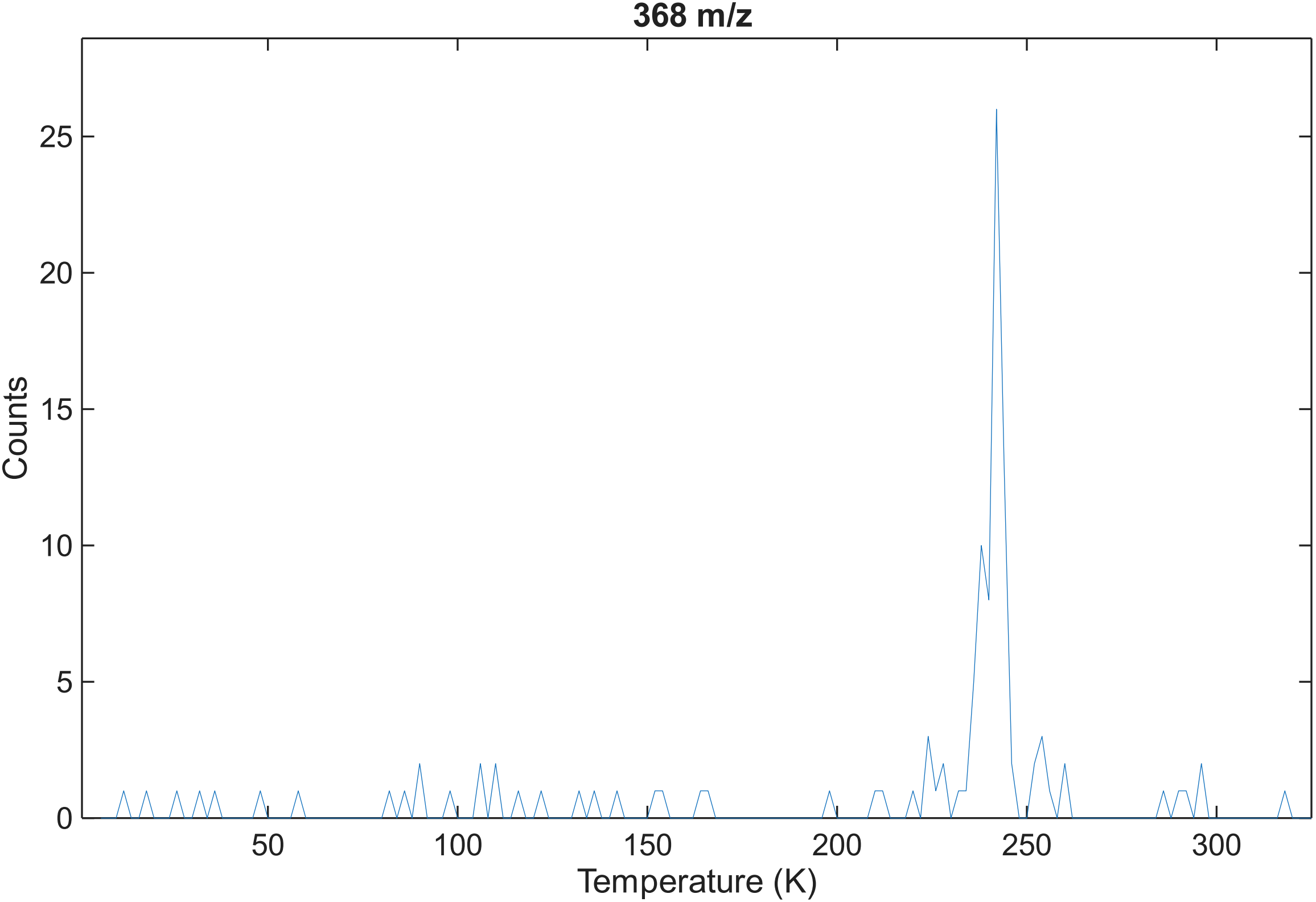
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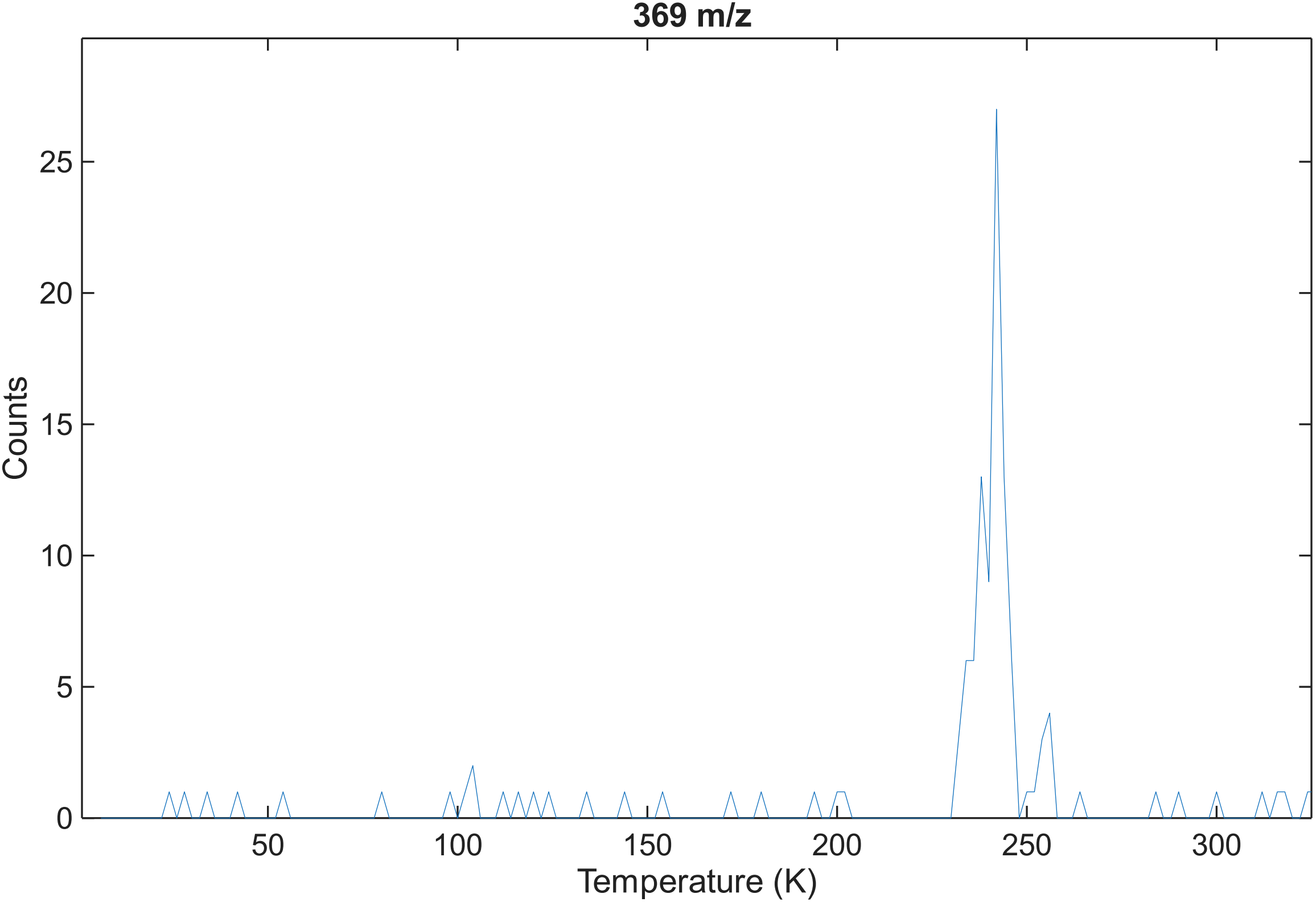
Temperature (K)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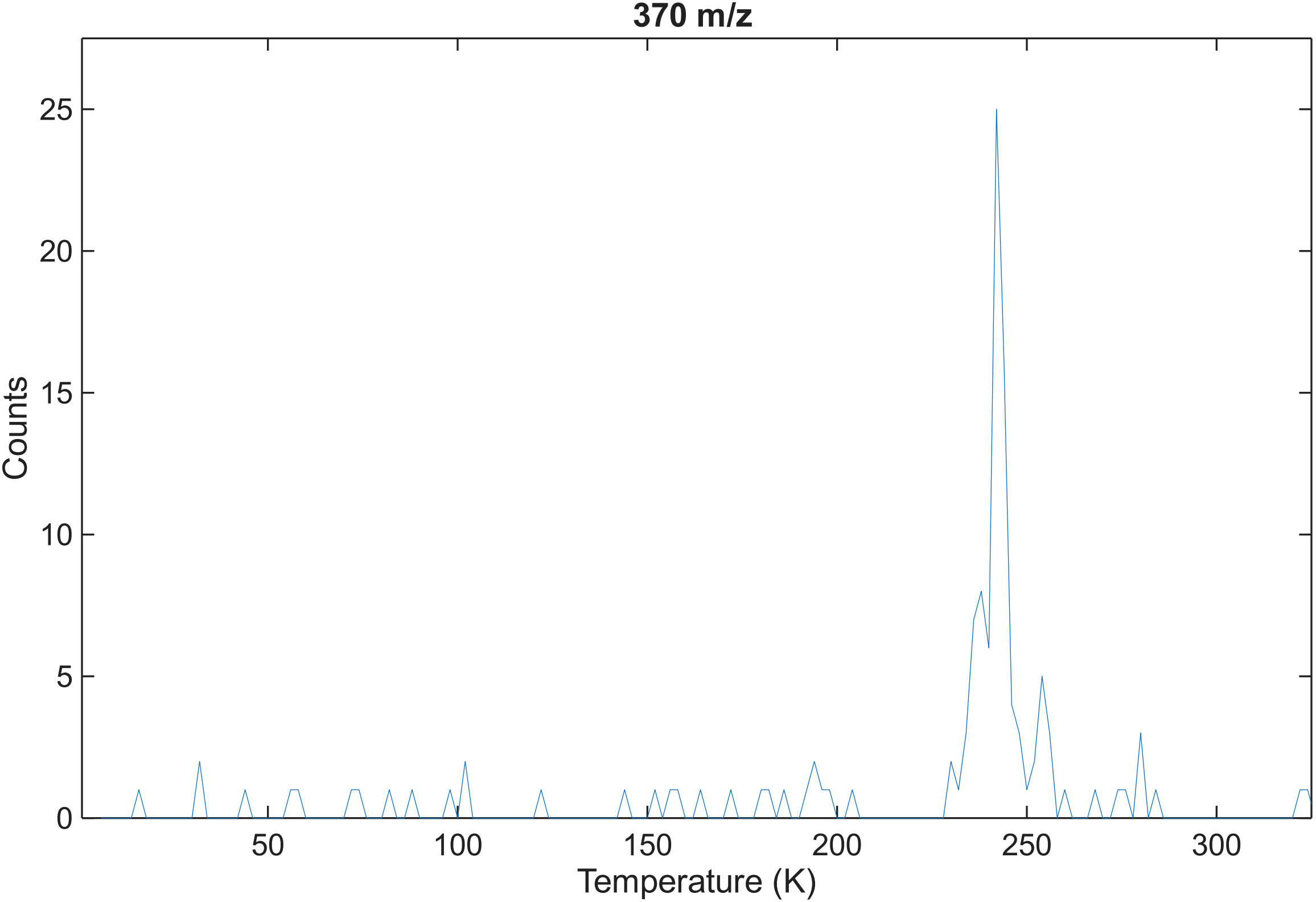
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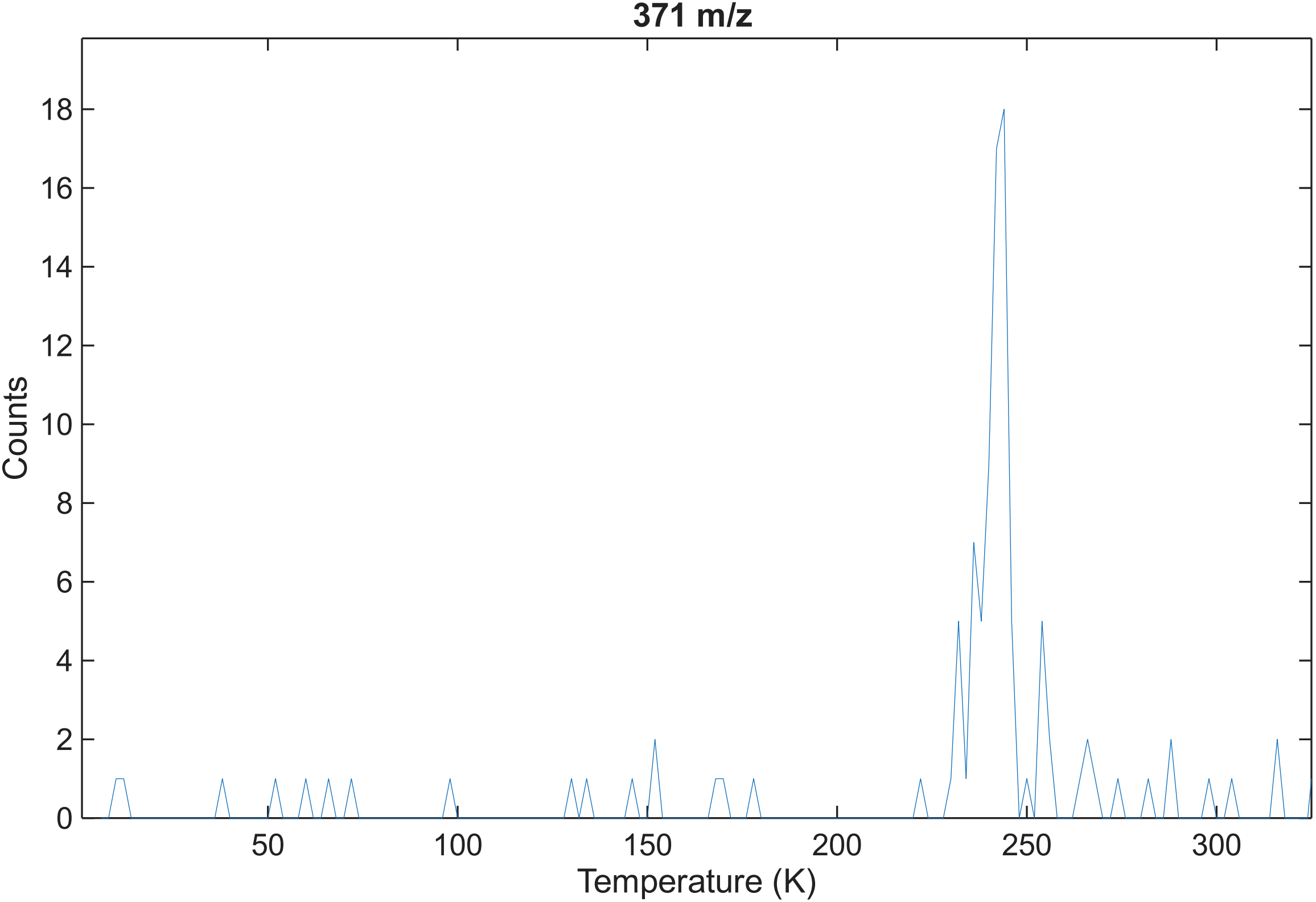
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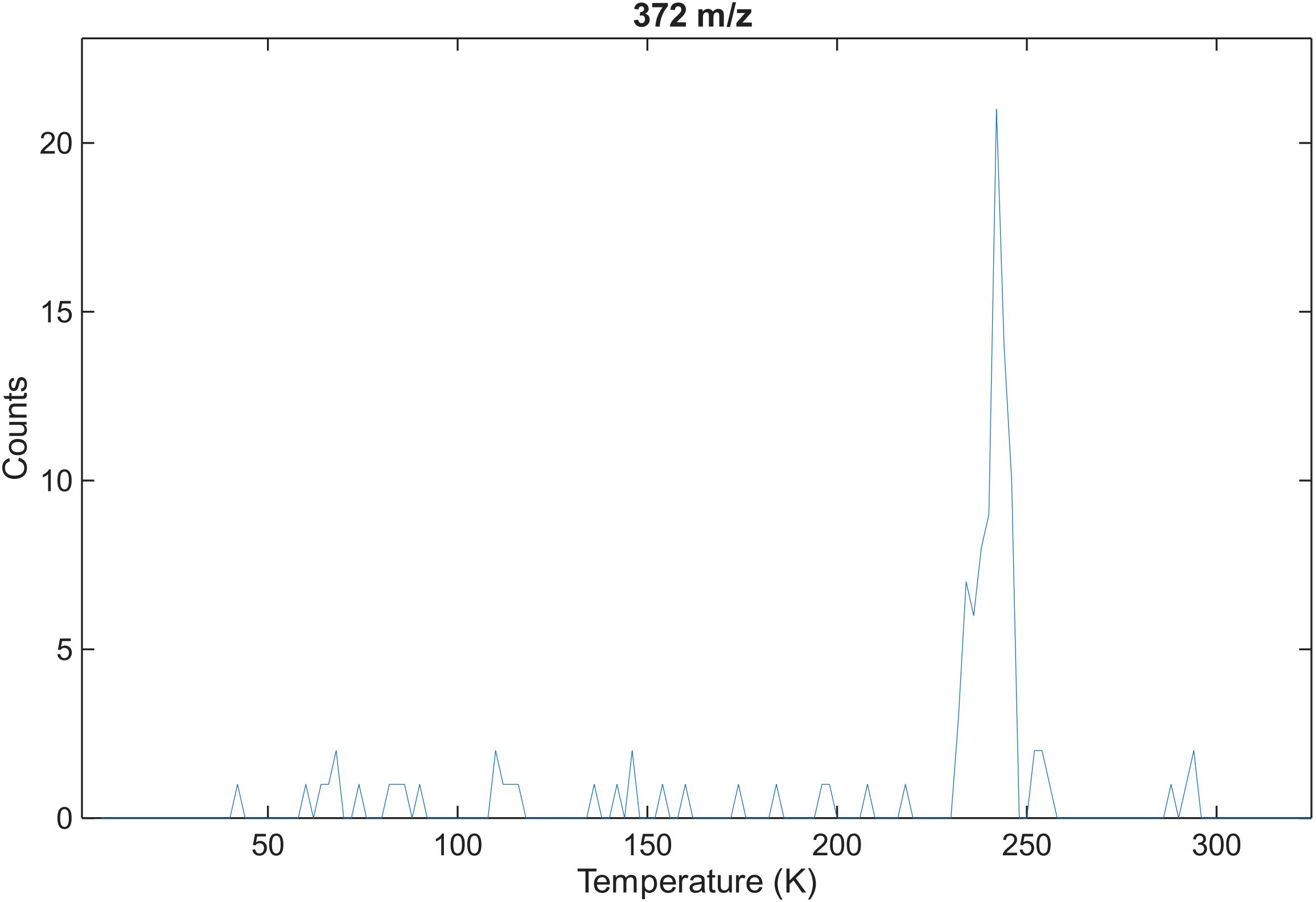
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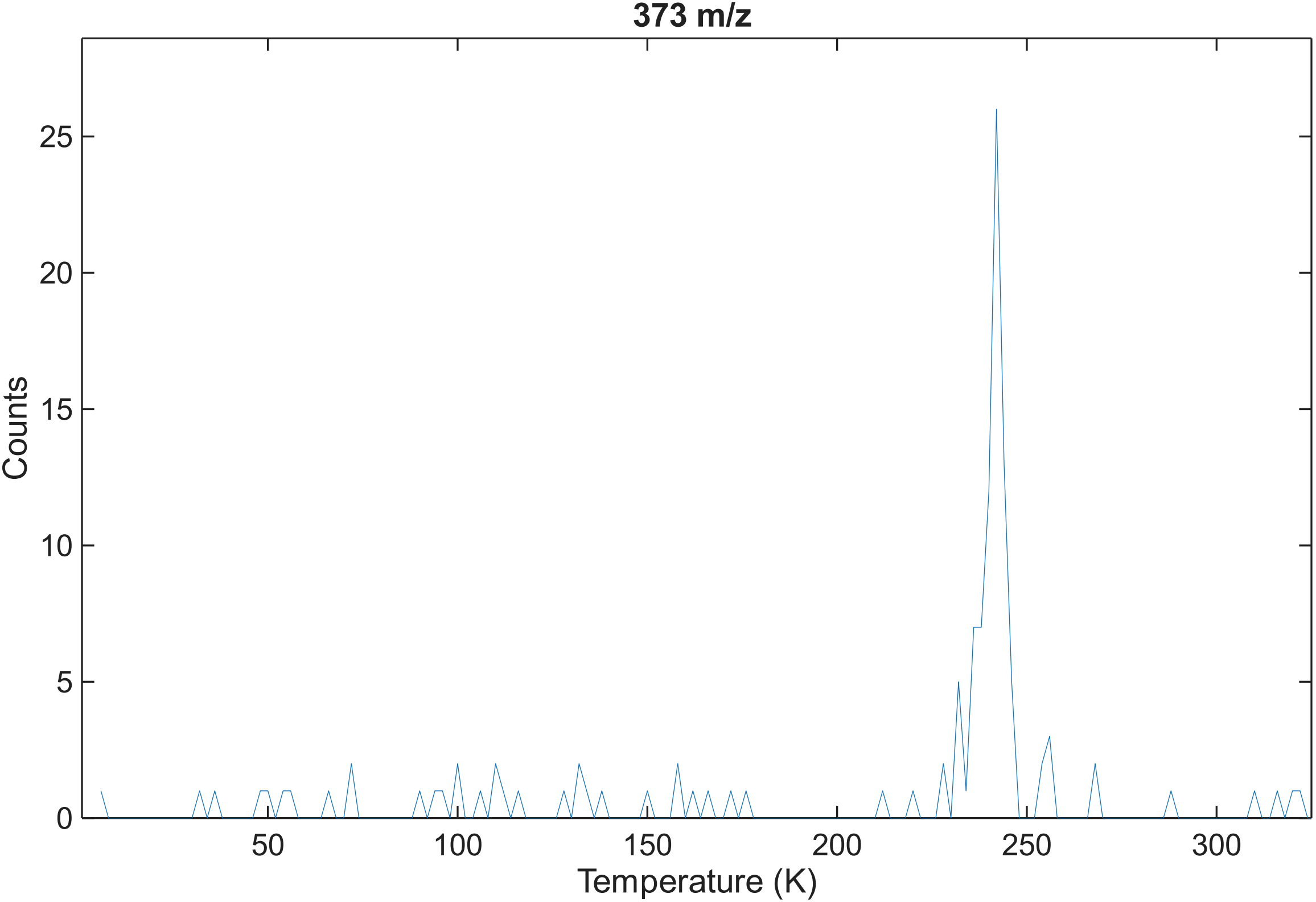
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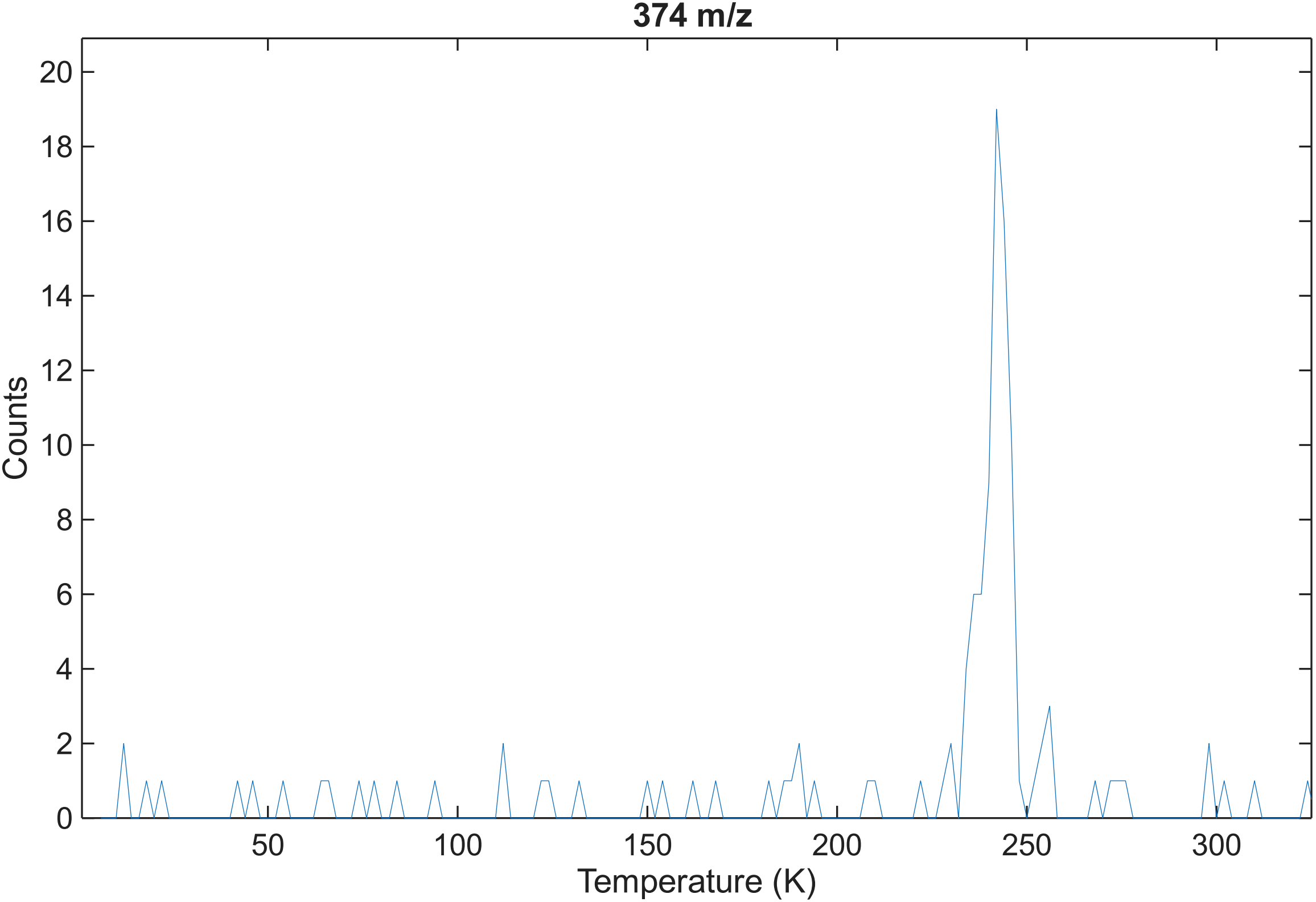
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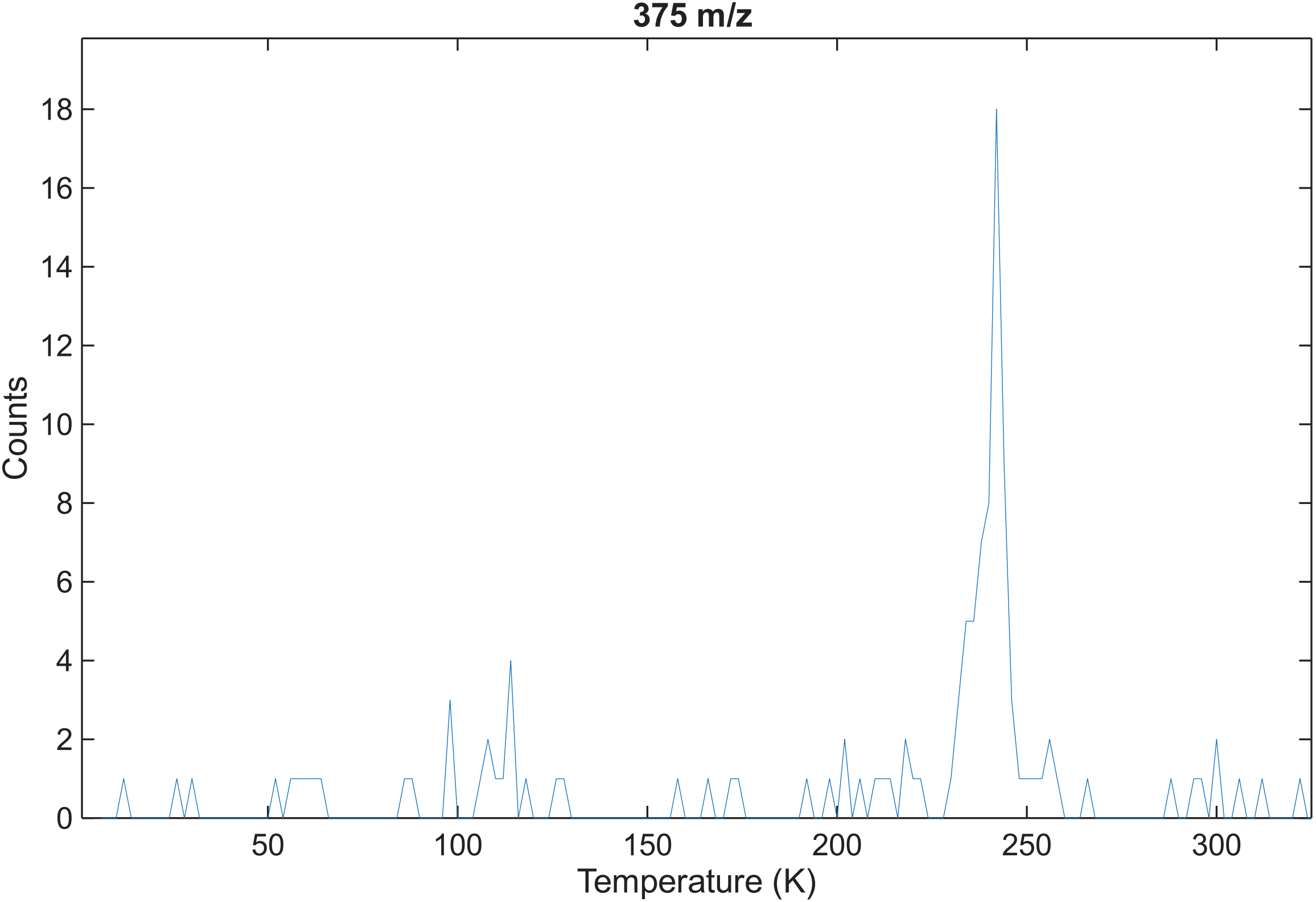
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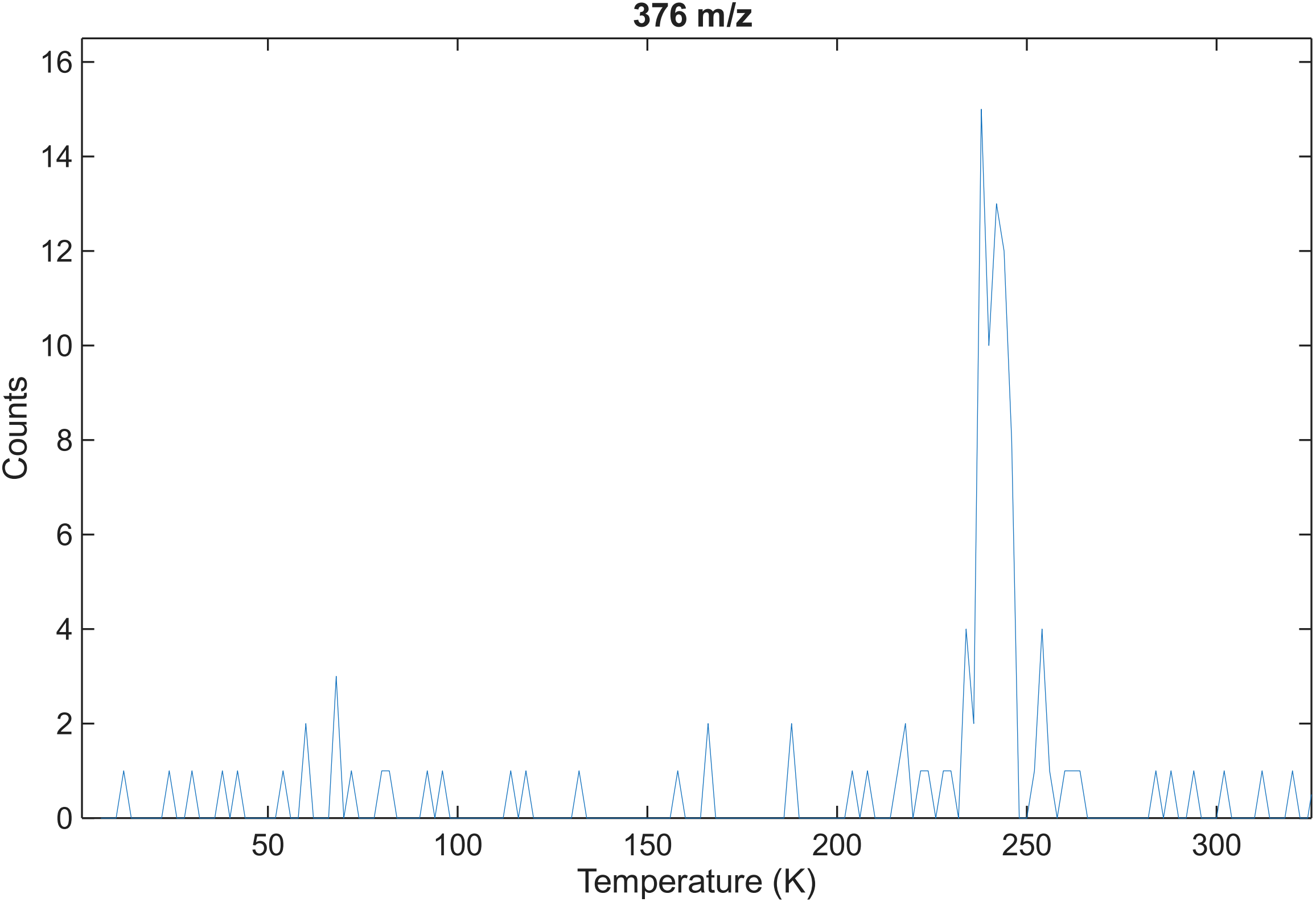
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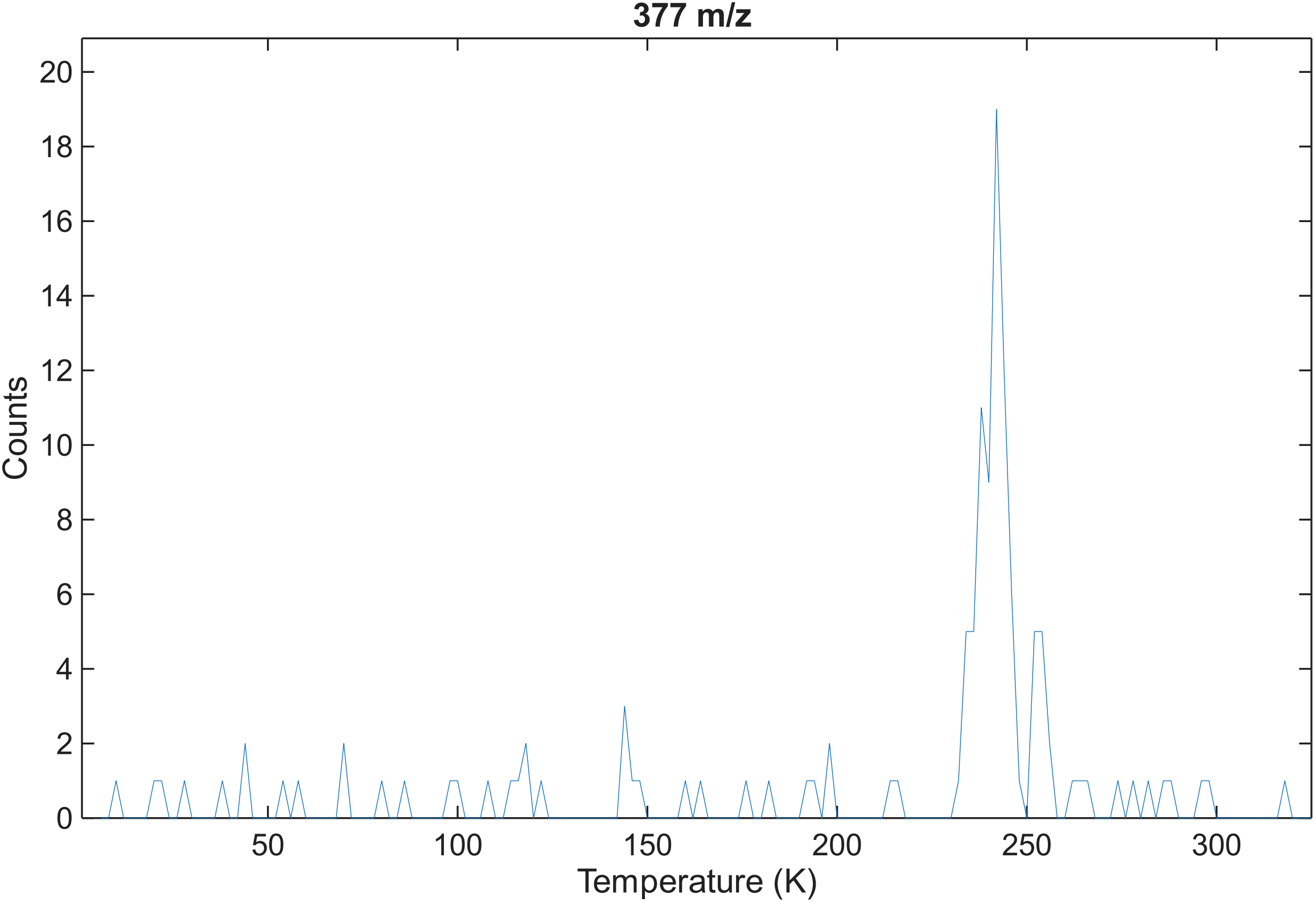
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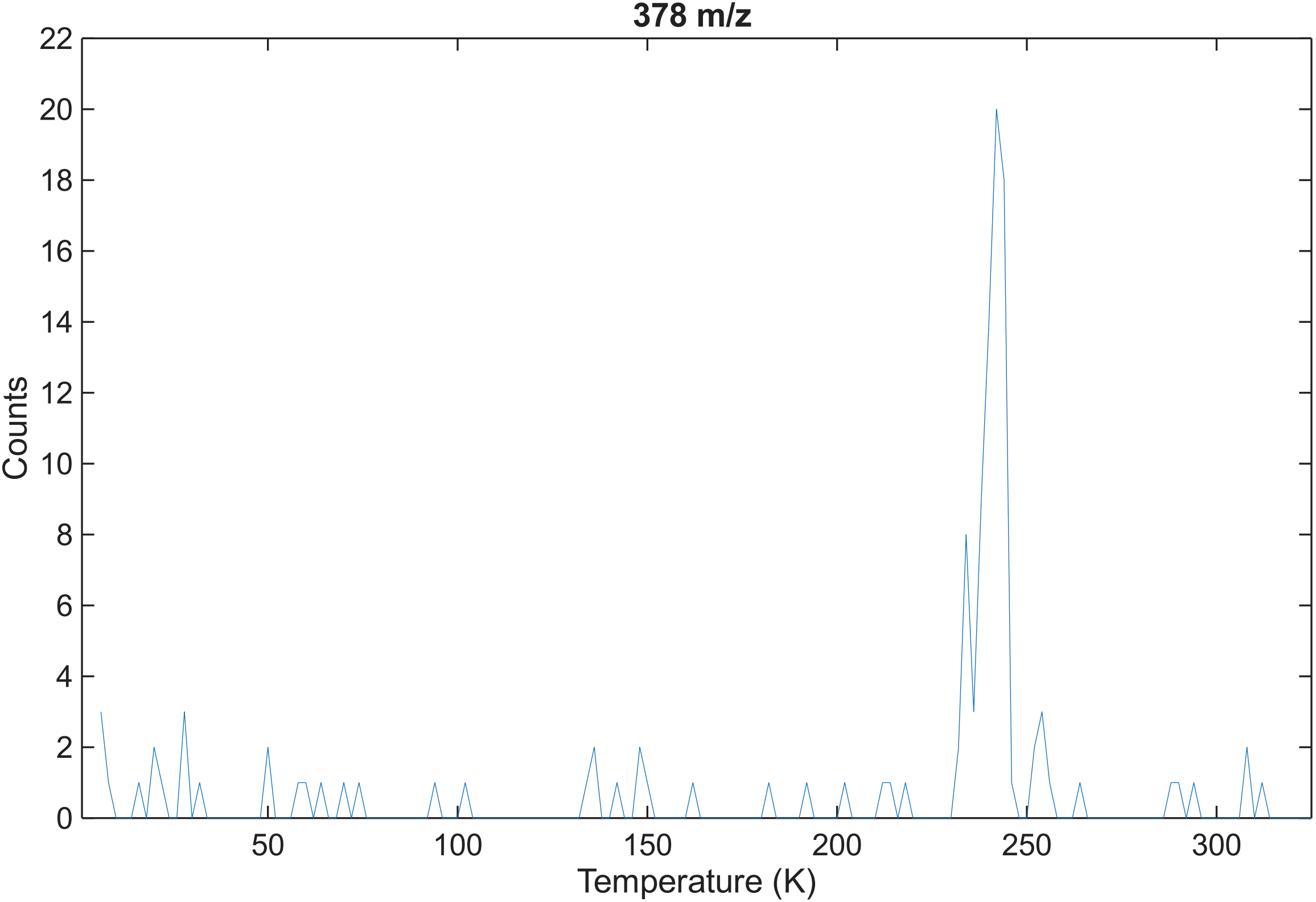
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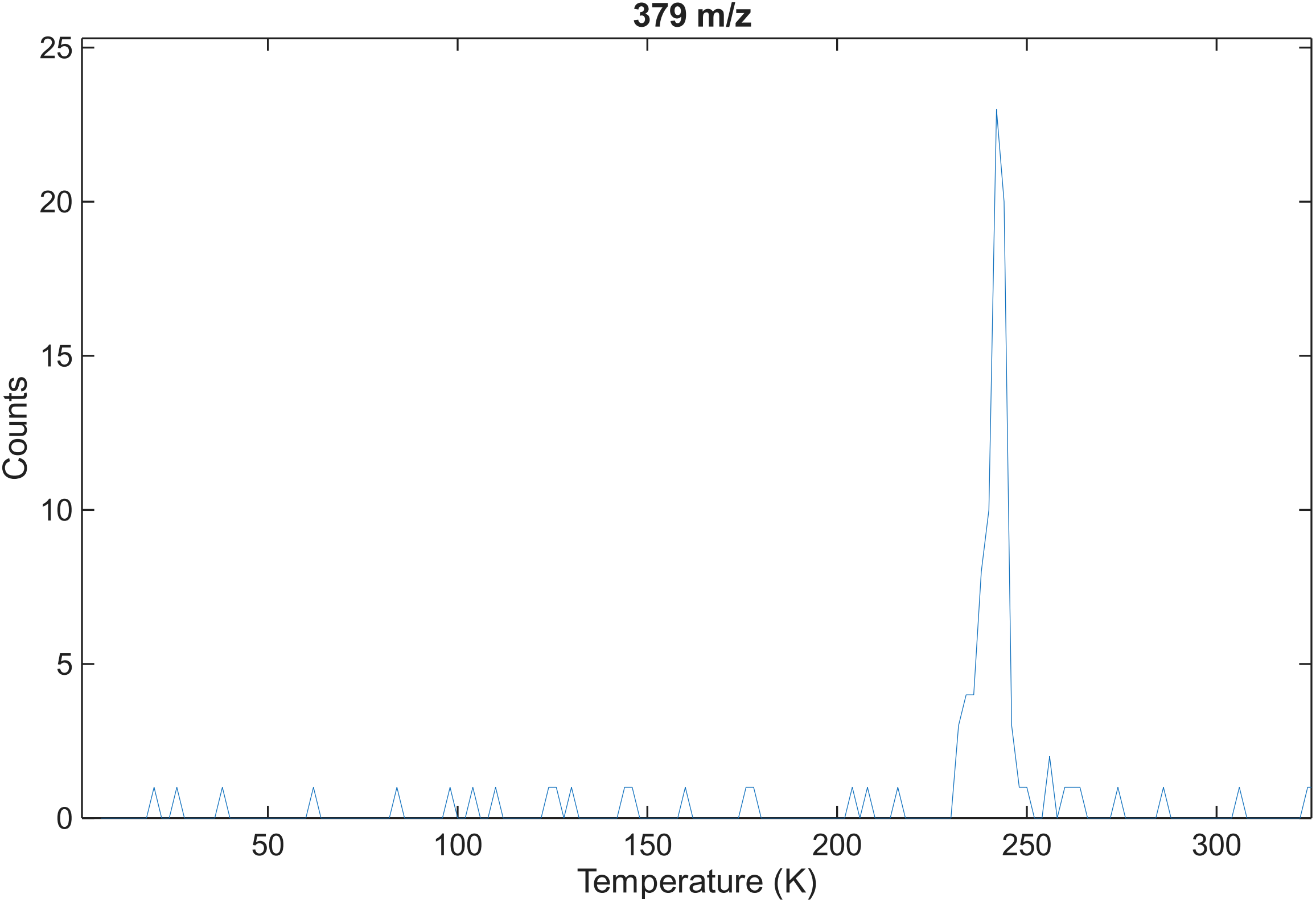
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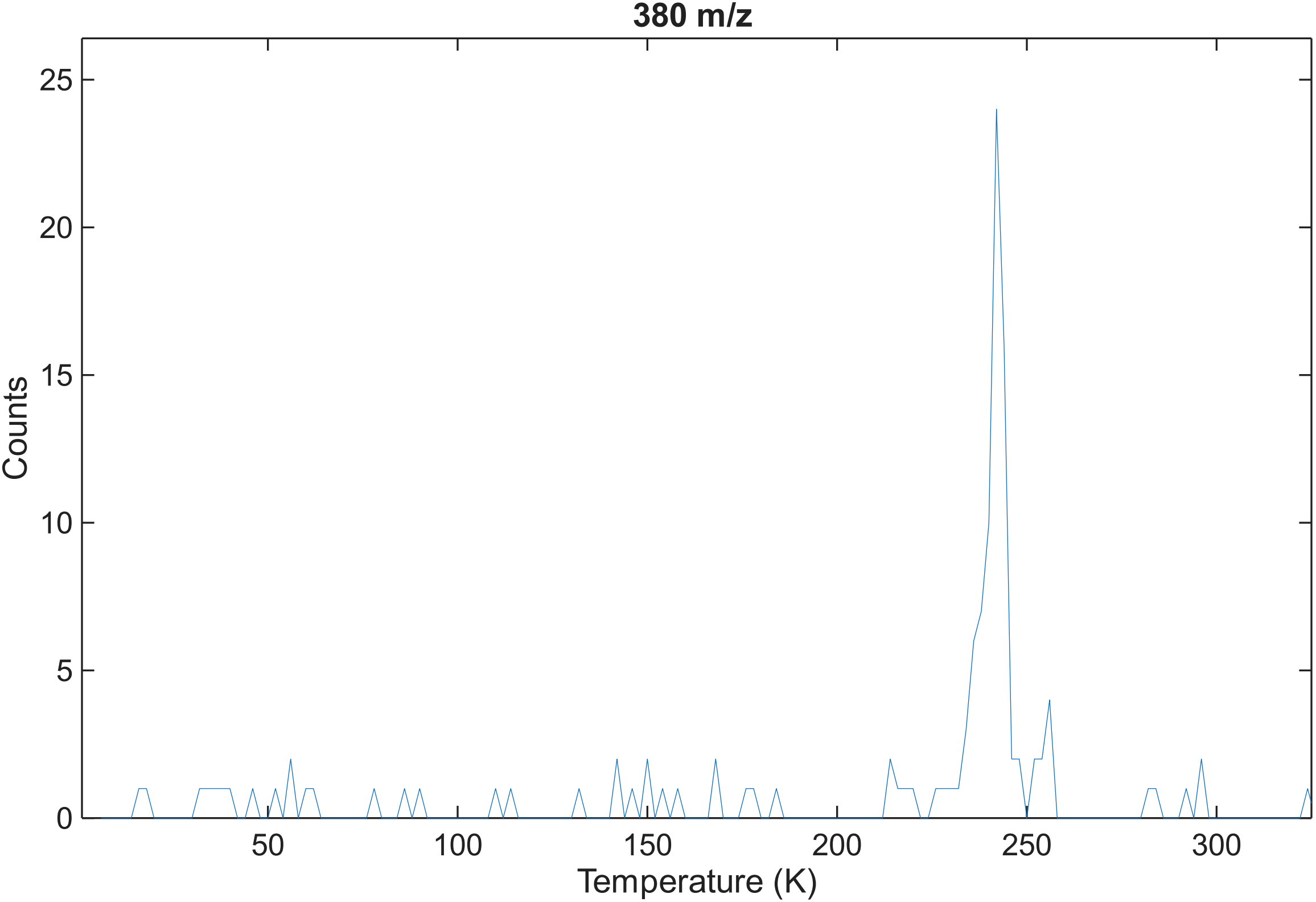
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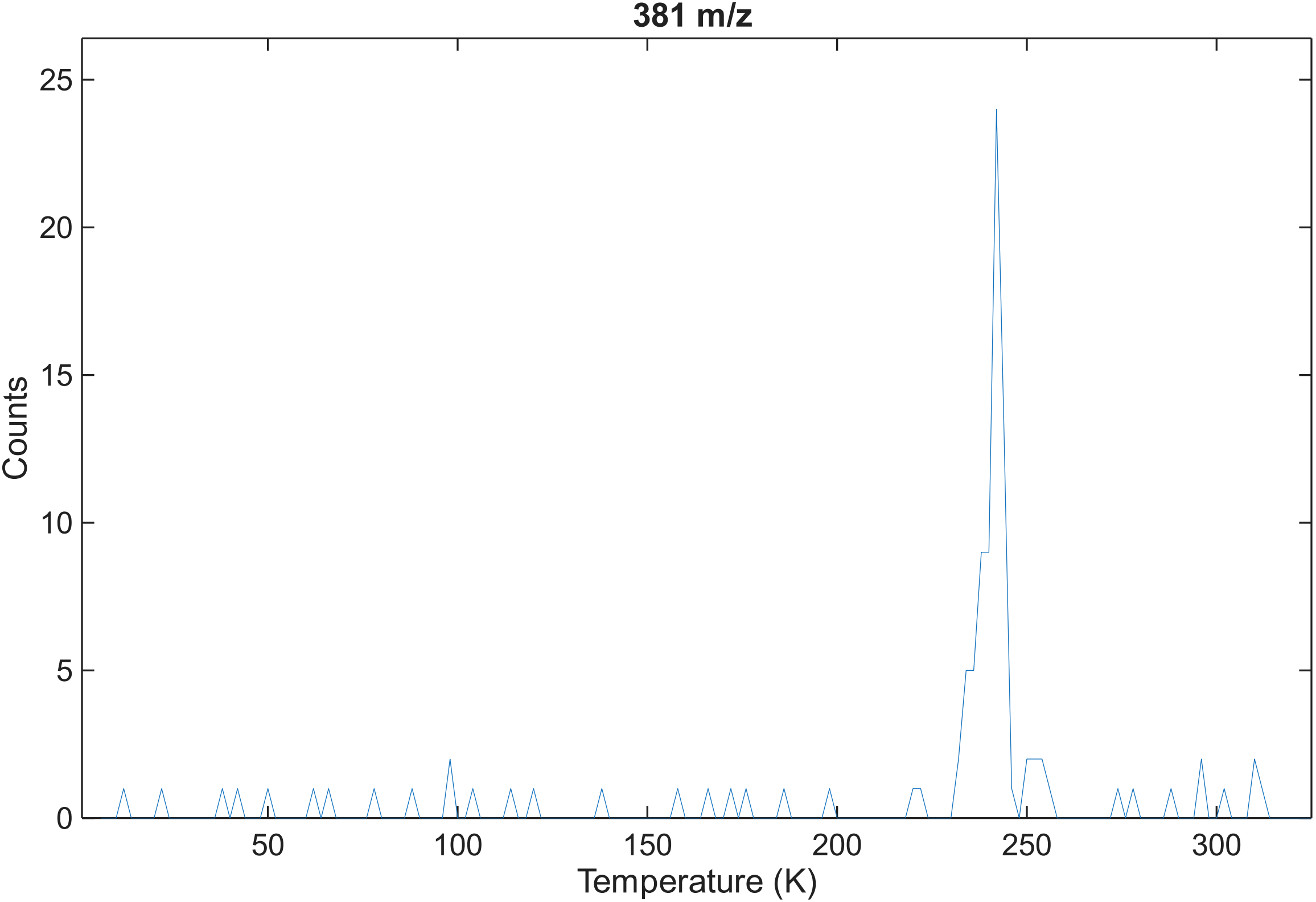
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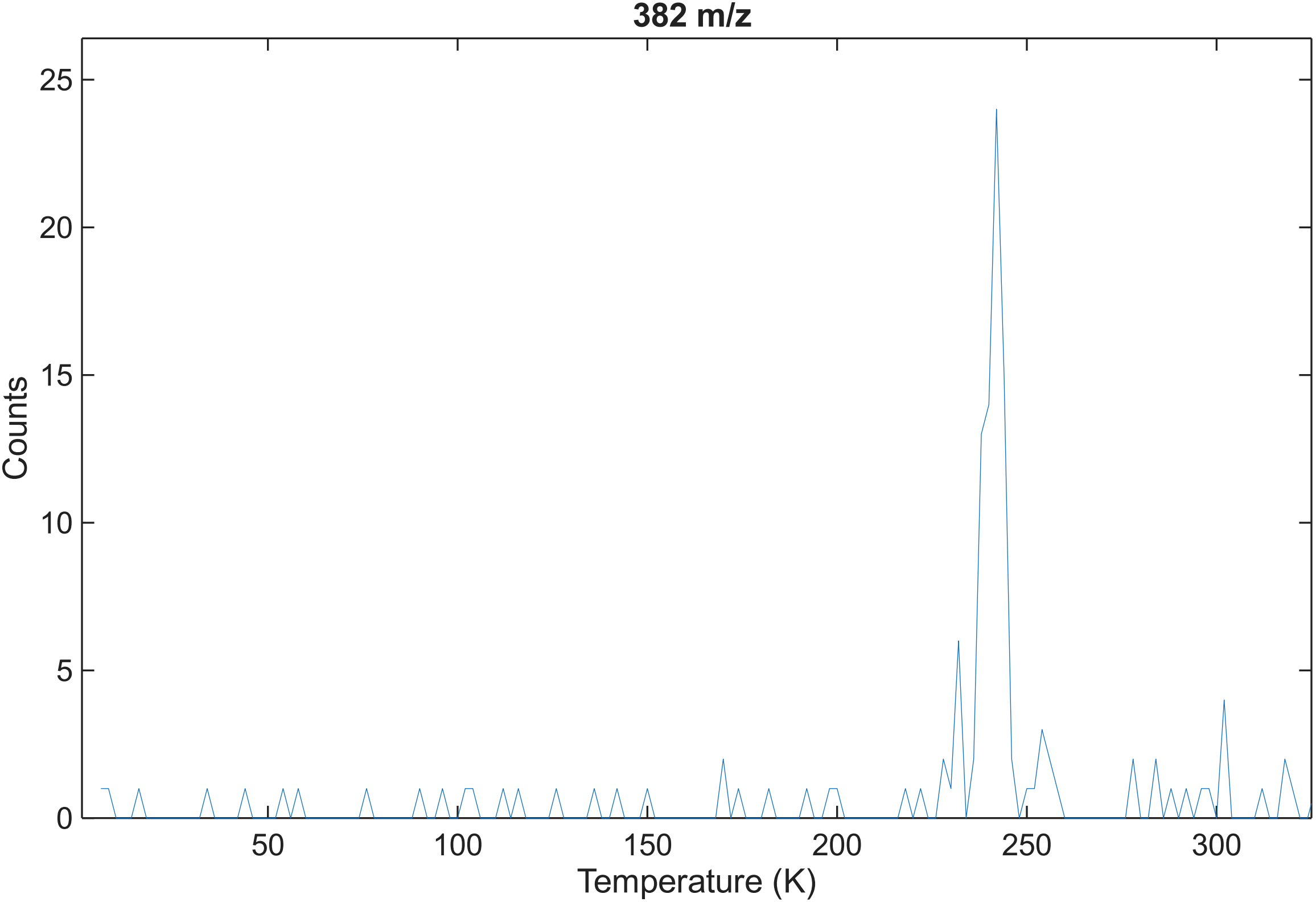
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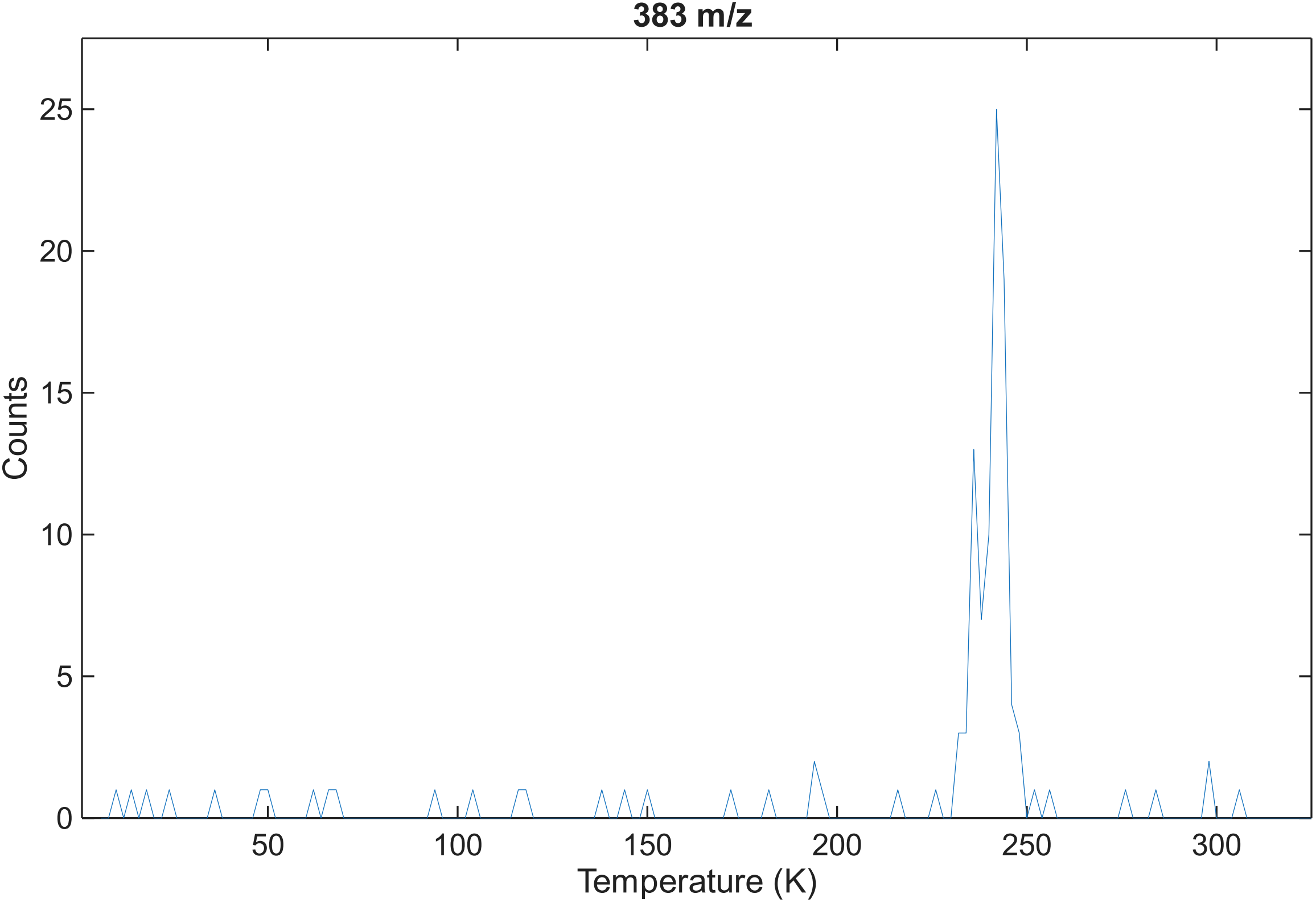
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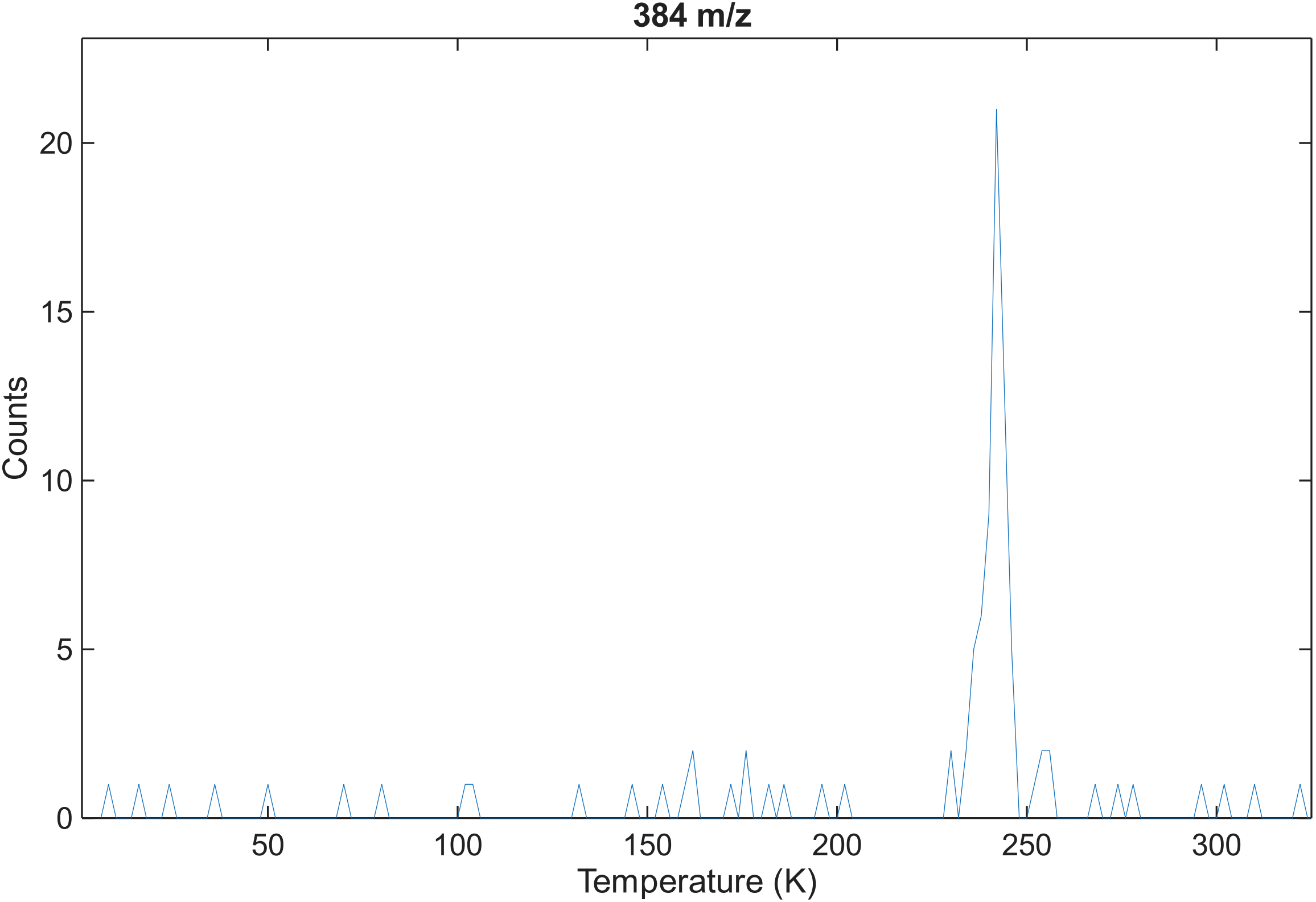
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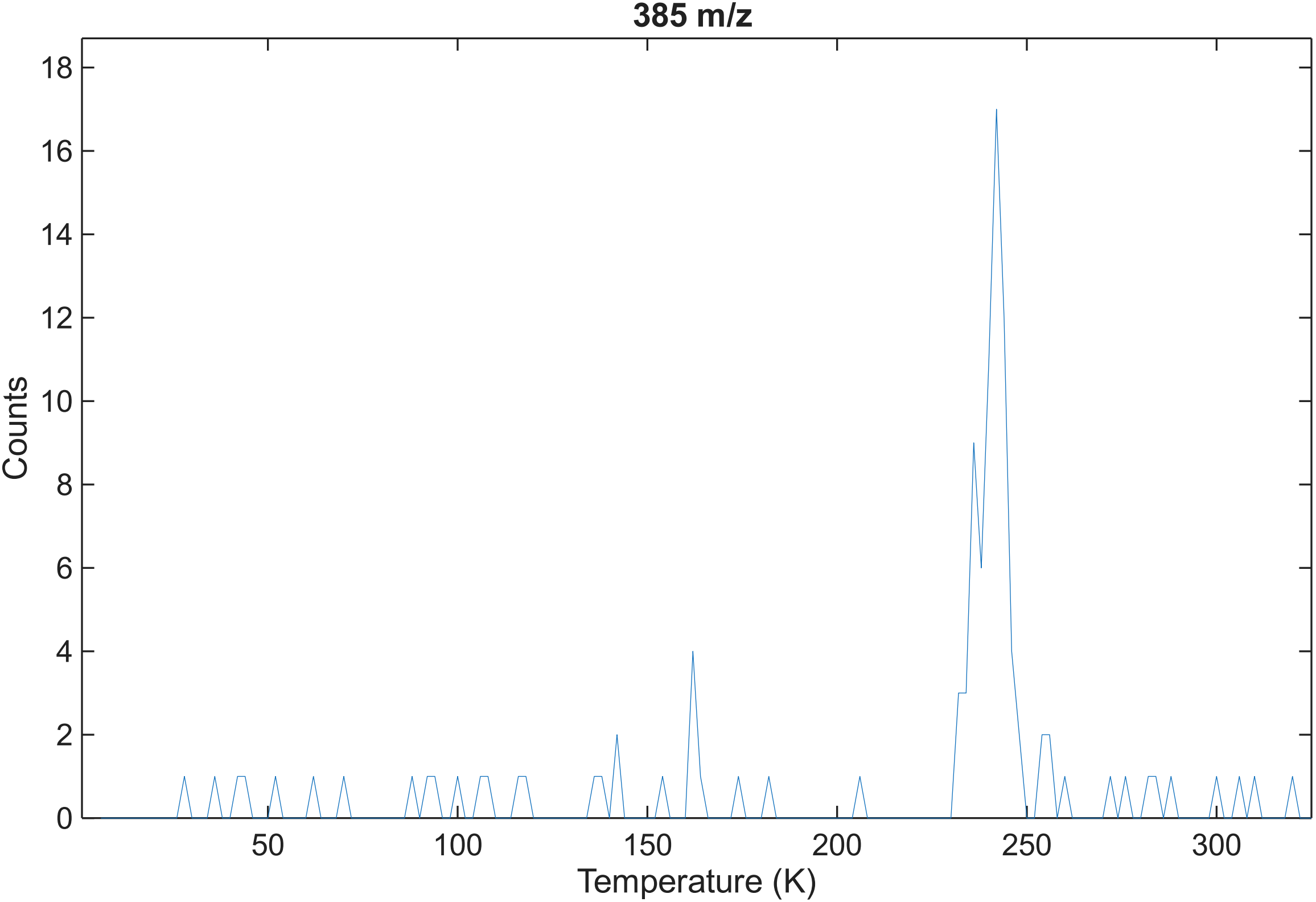
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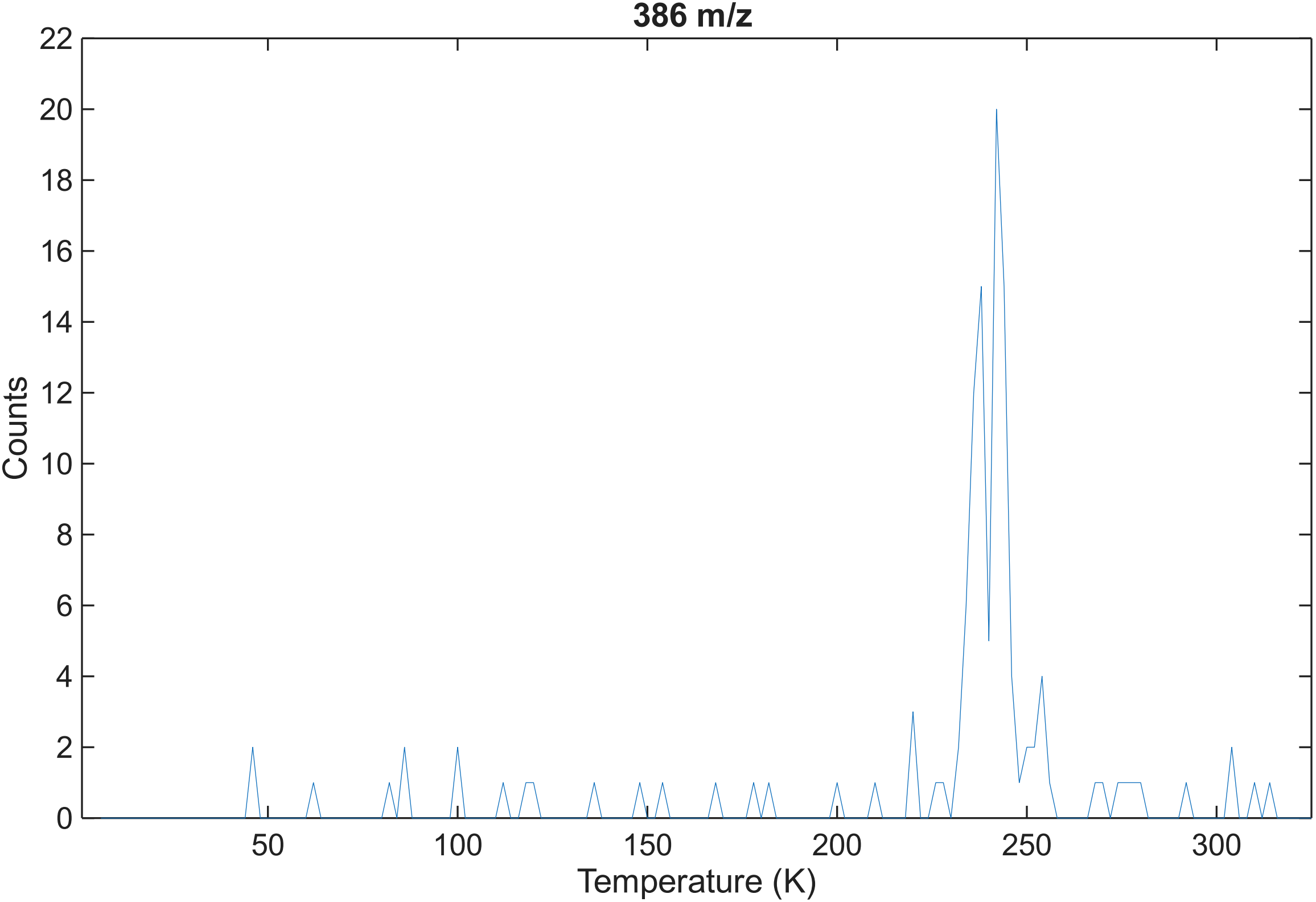
386 m/z
Counts
Temperature (K)
0
2
4
6
8
10
12
14
16
18
20
22
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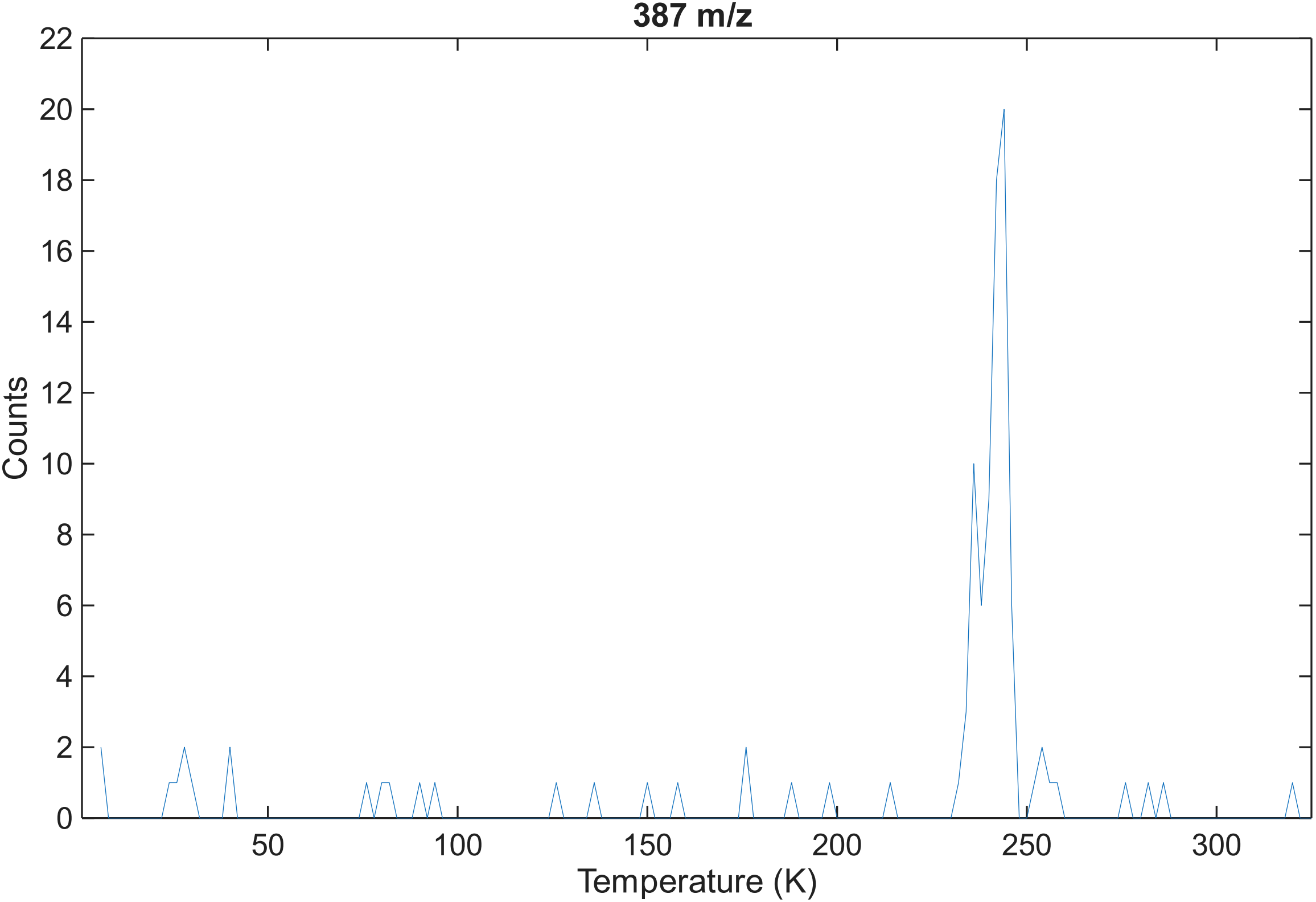
100
150
200
250
300


387 m/z
Counts
Temperature (K)
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2
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8
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12
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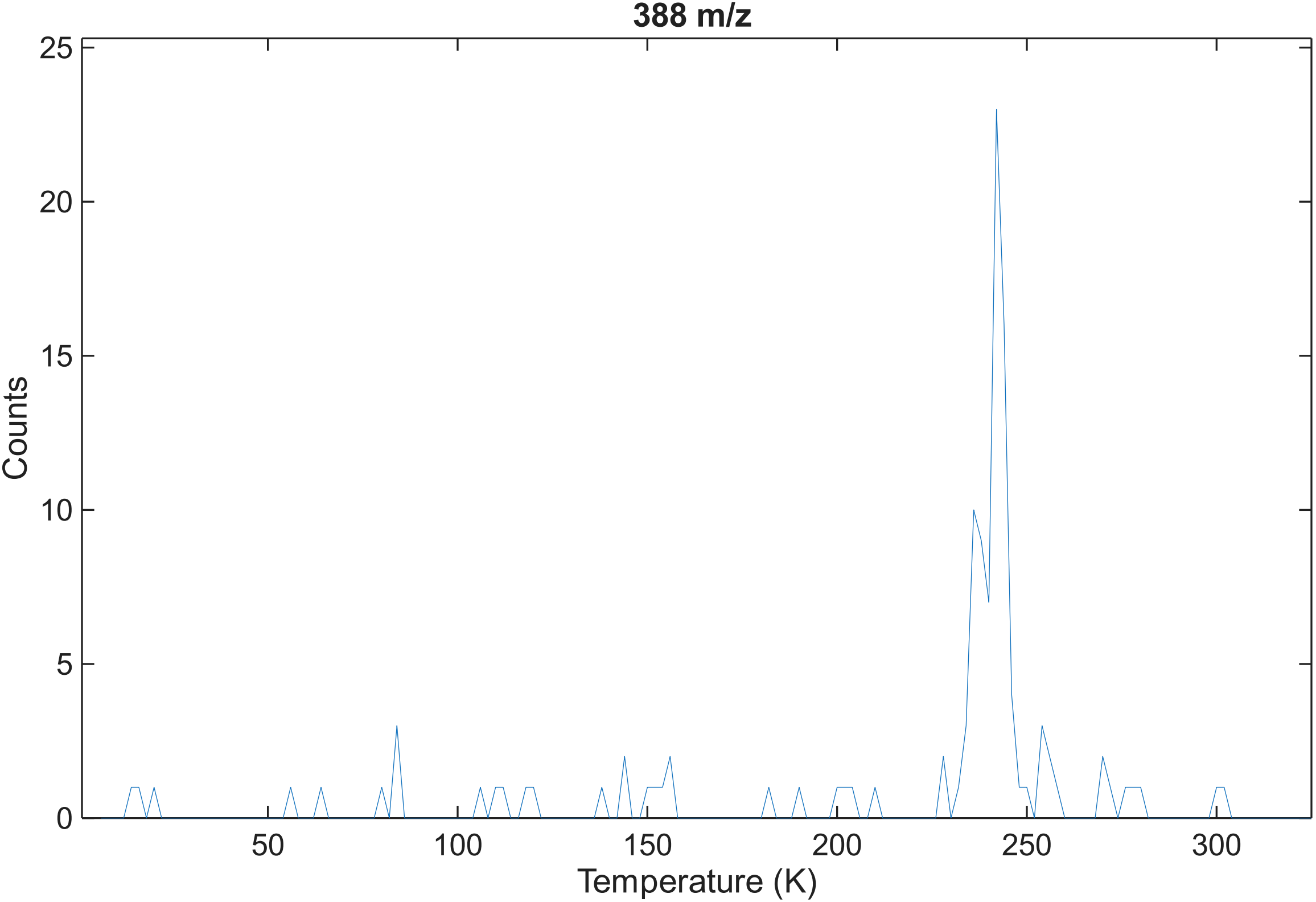
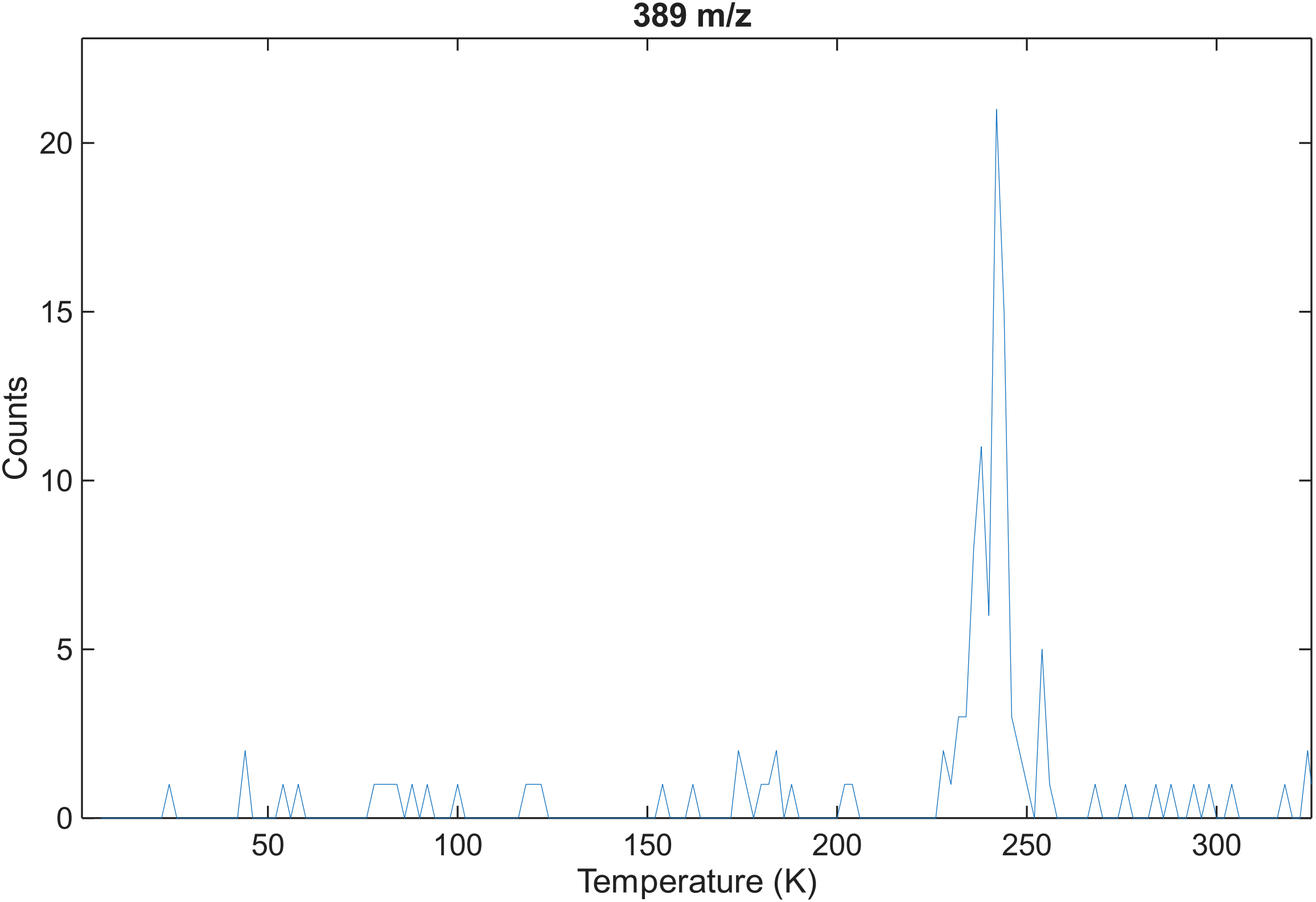

388 m/z
25
20
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)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Counts
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200
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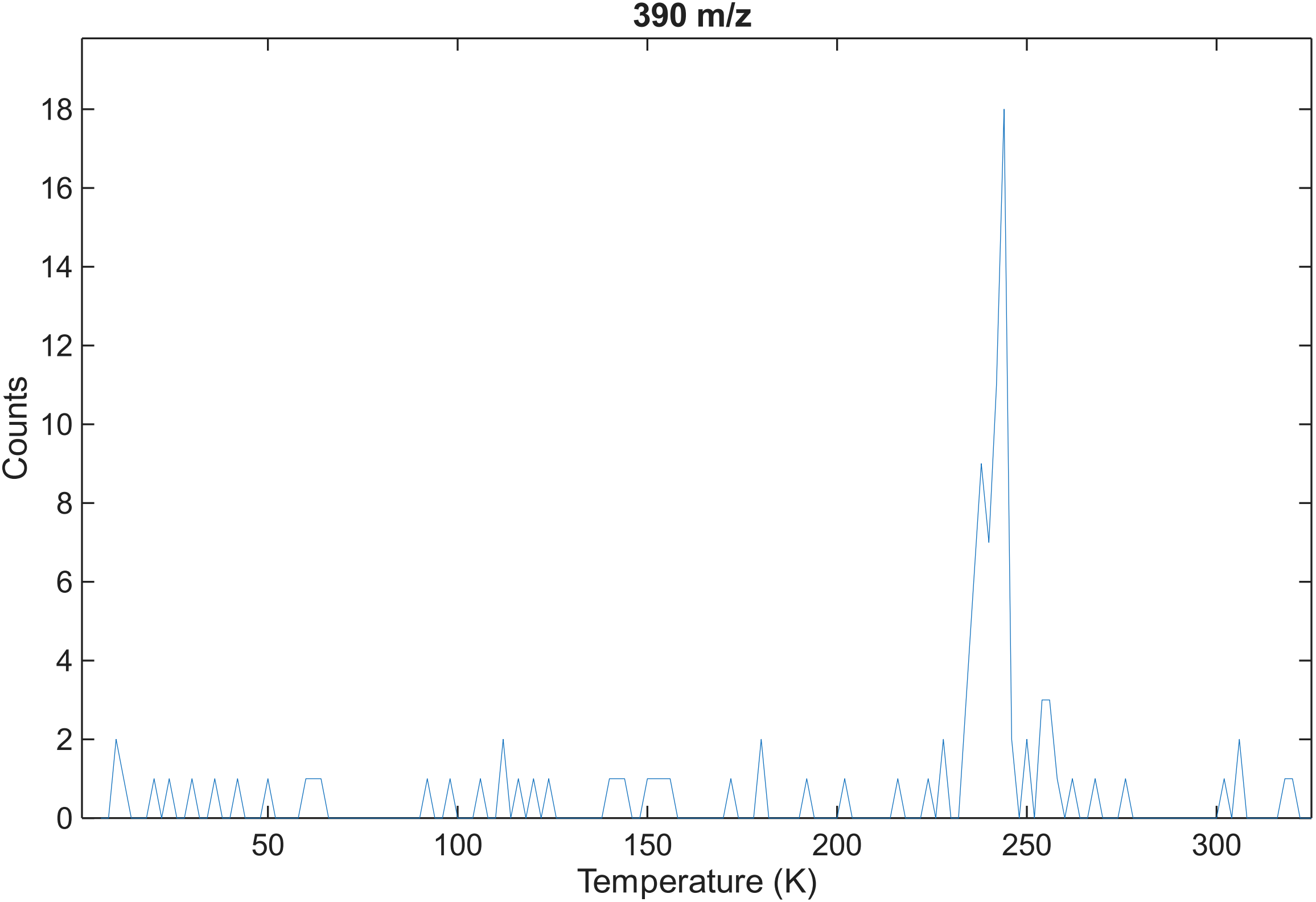
300
Temperature (K)


390 m/z
Counts
Temperature (K)
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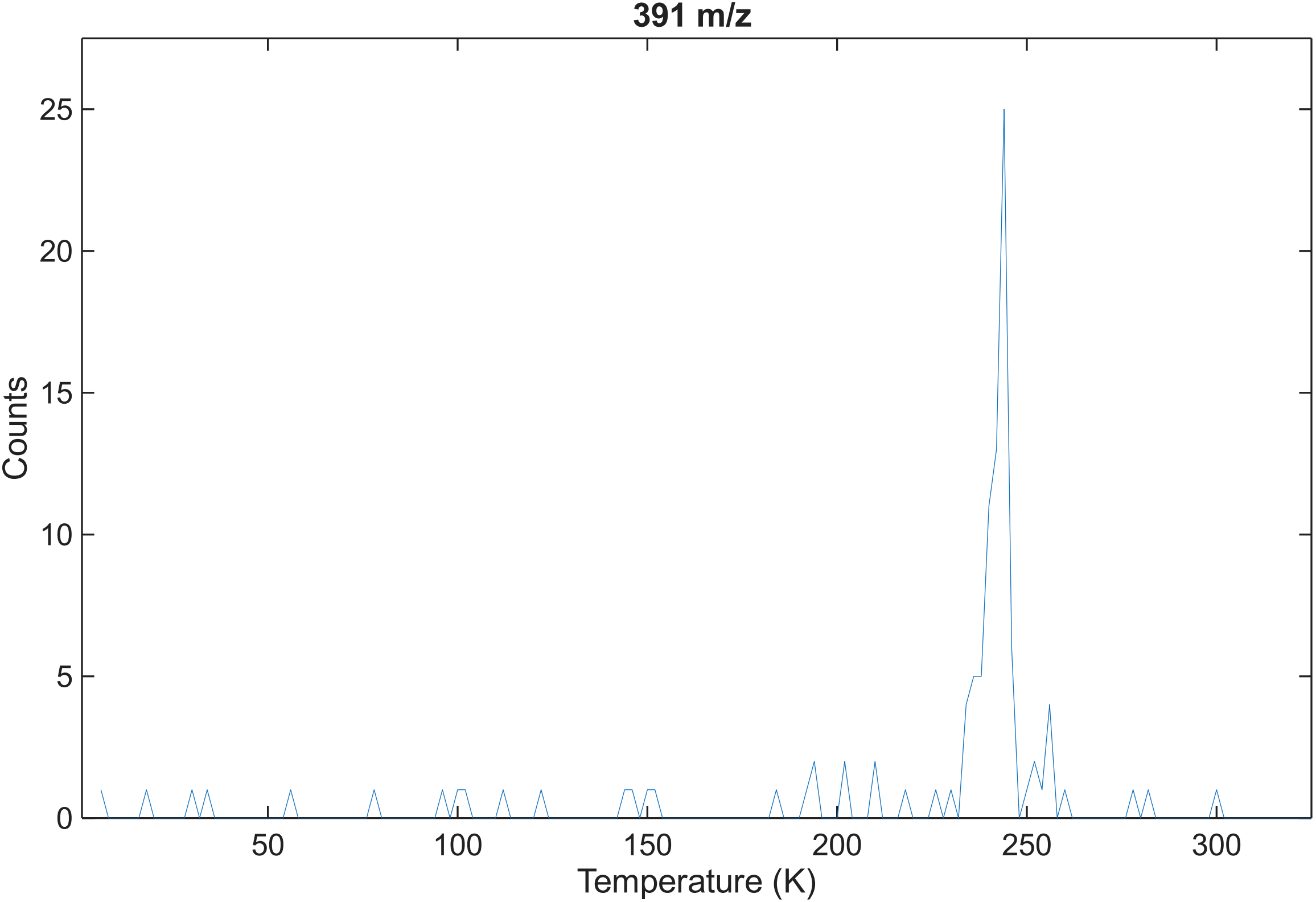
391 m/z
Counts
Temperature (K)
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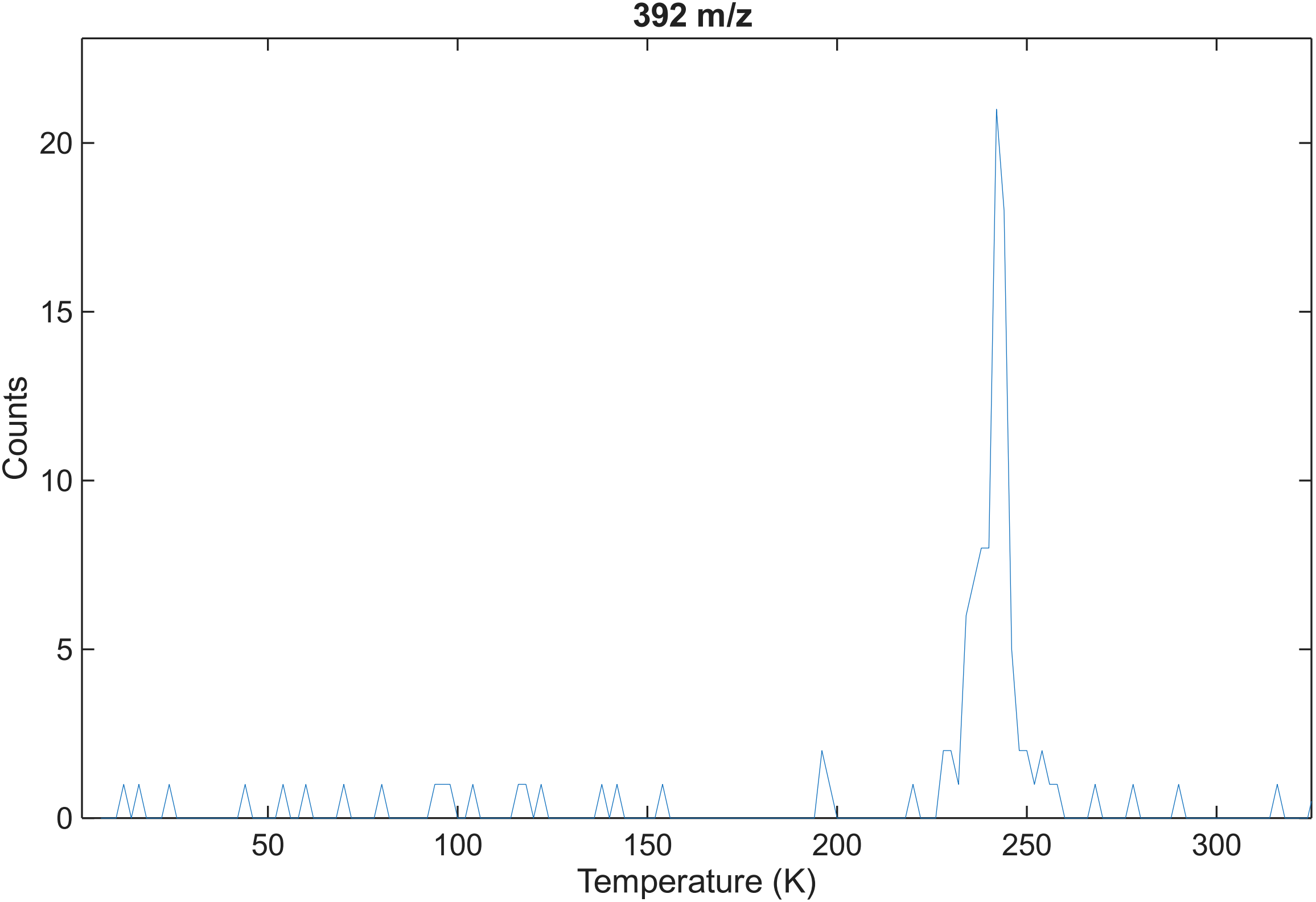
392 m/z
Counts
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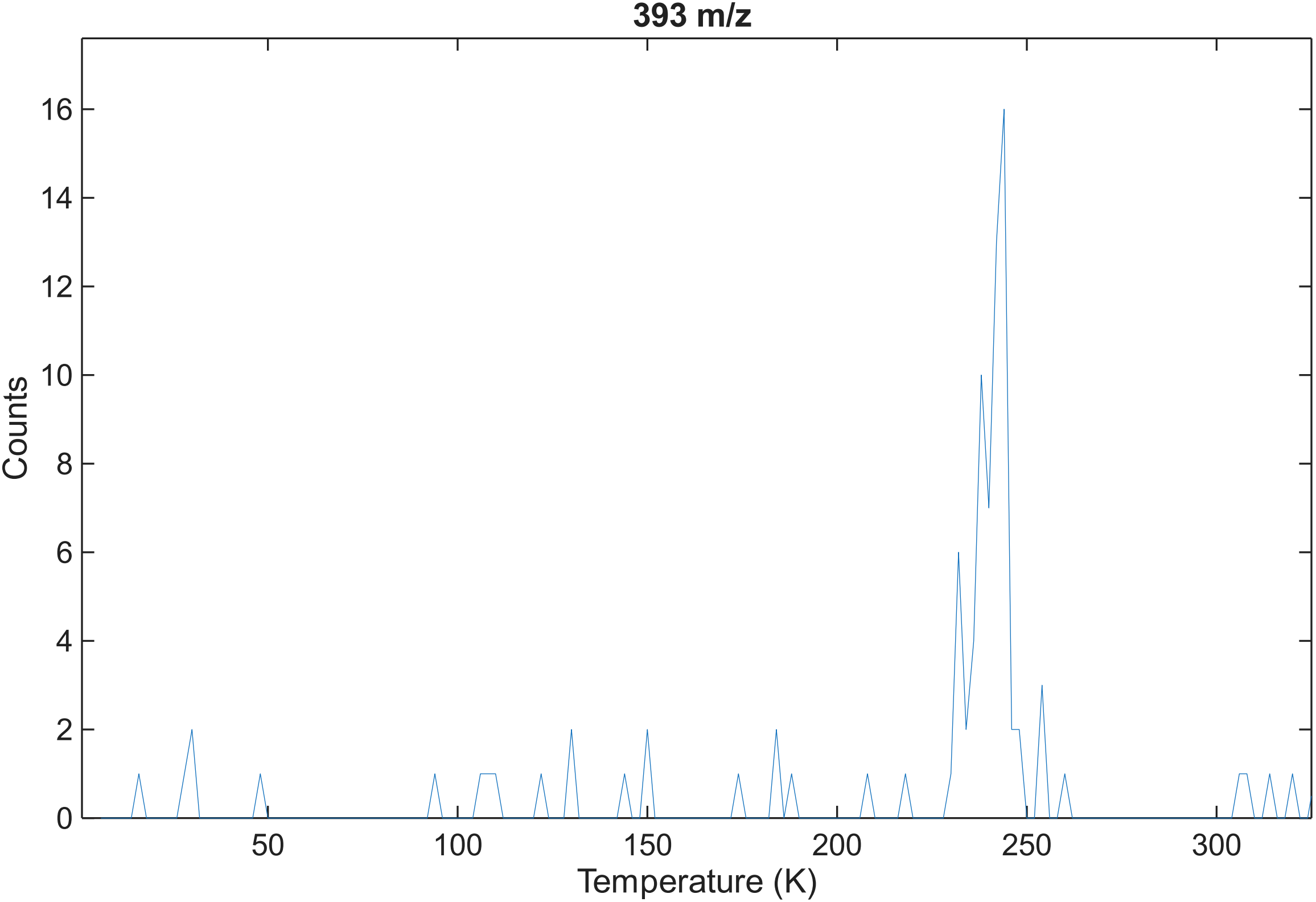
300
Temperature (K)


393 m/z
Counts
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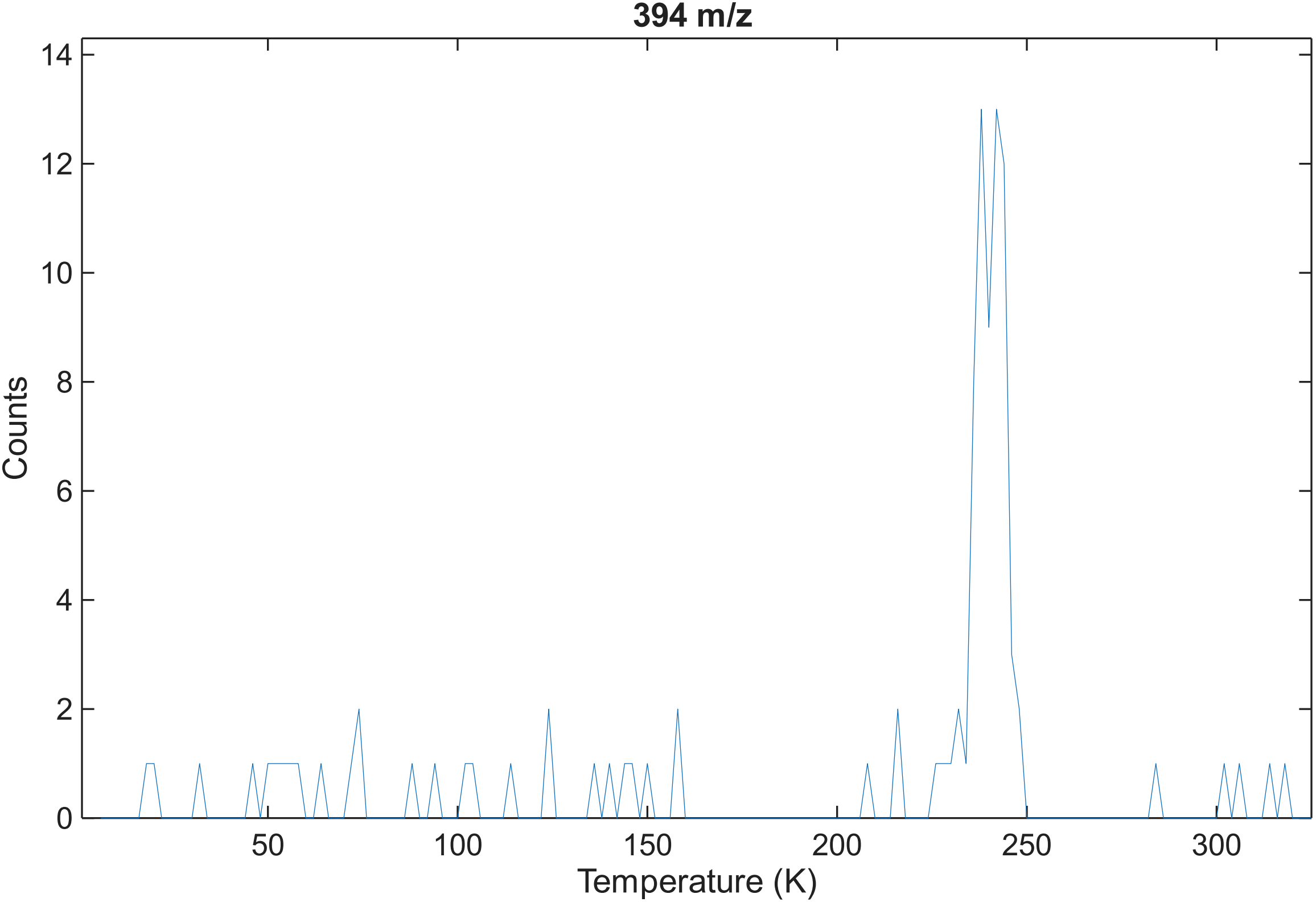
394 m/z
Counts
Temperature (K)
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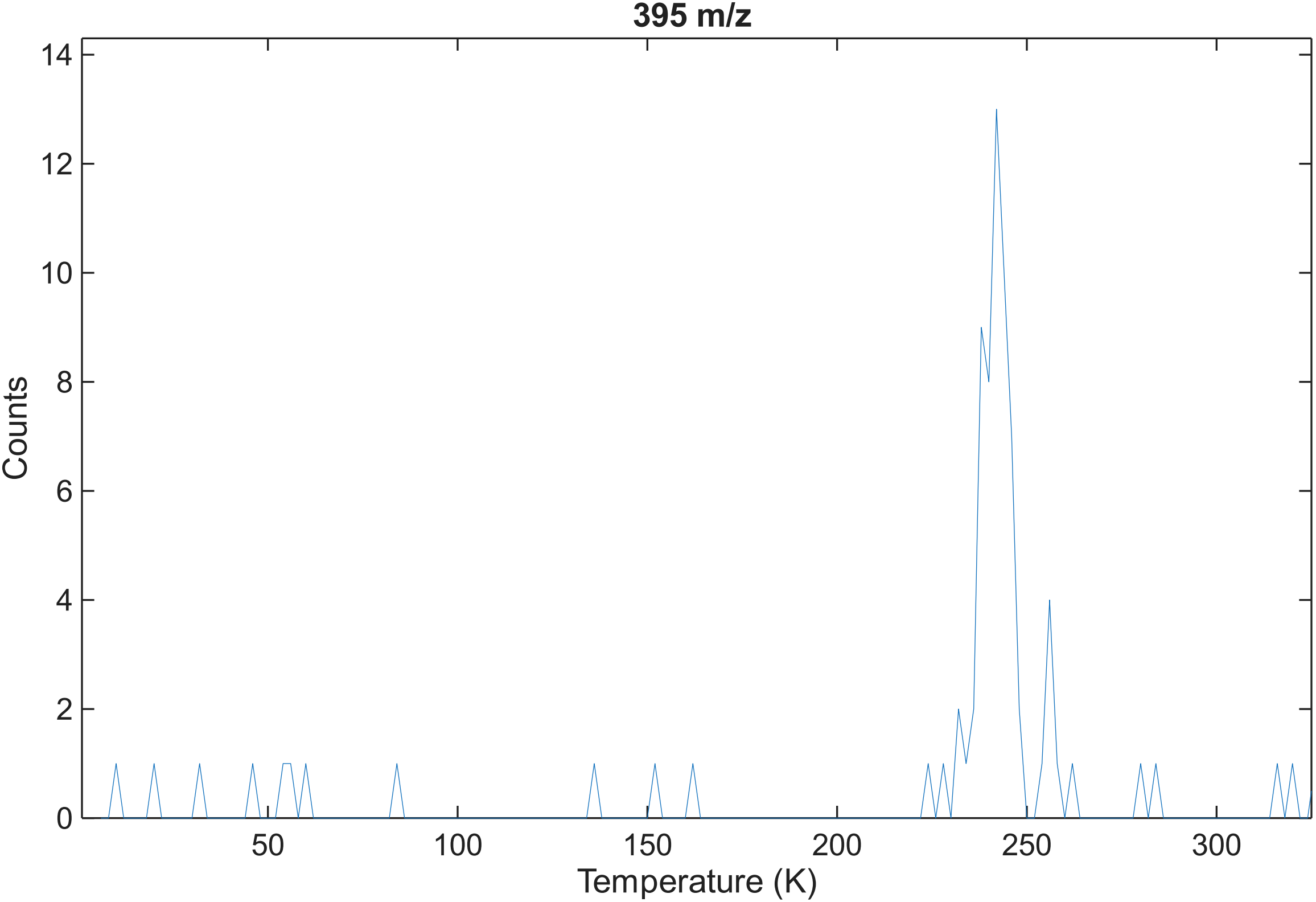
395 m/z
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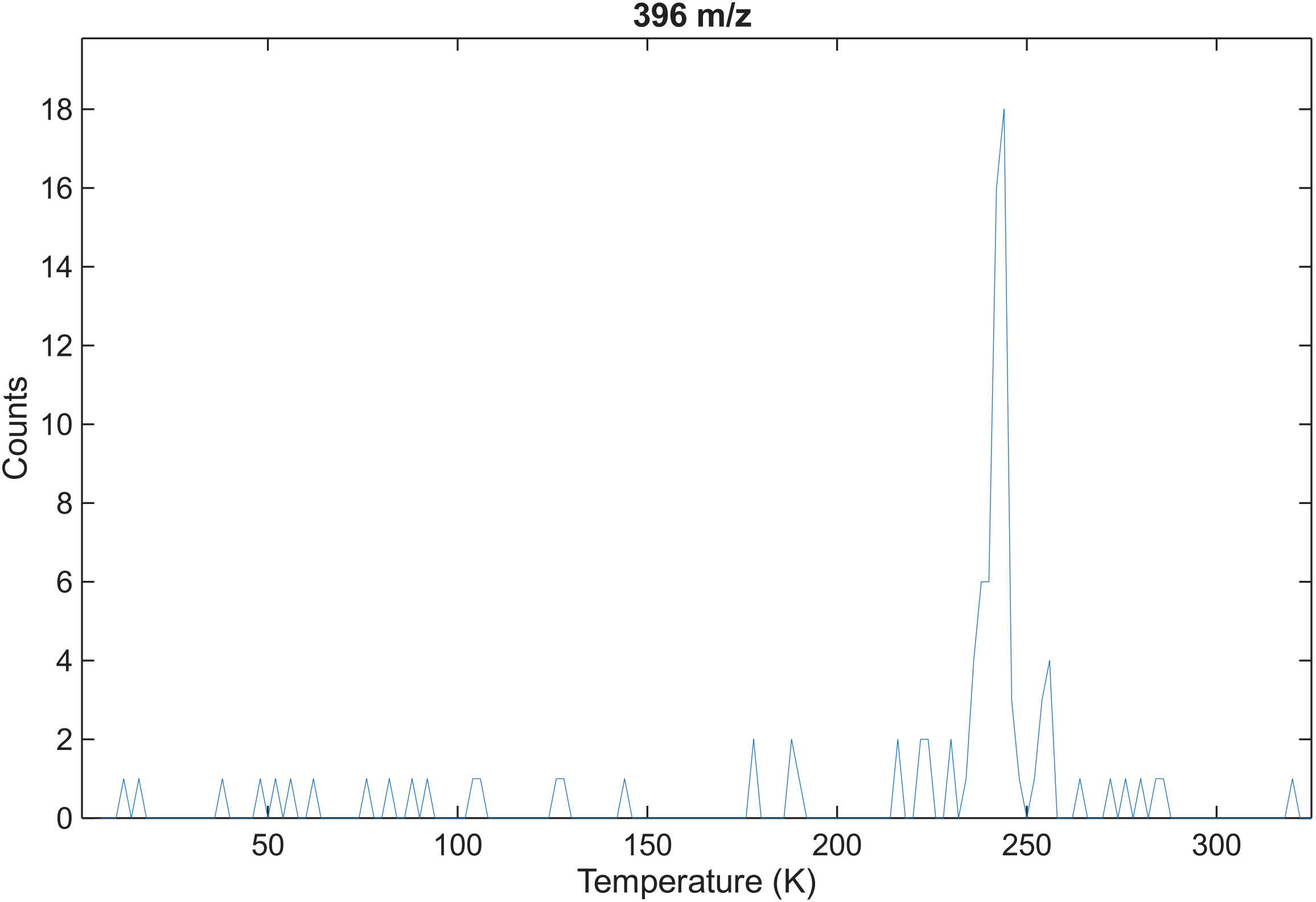
396 m/z
Counts
Temperature (K)
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6
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250
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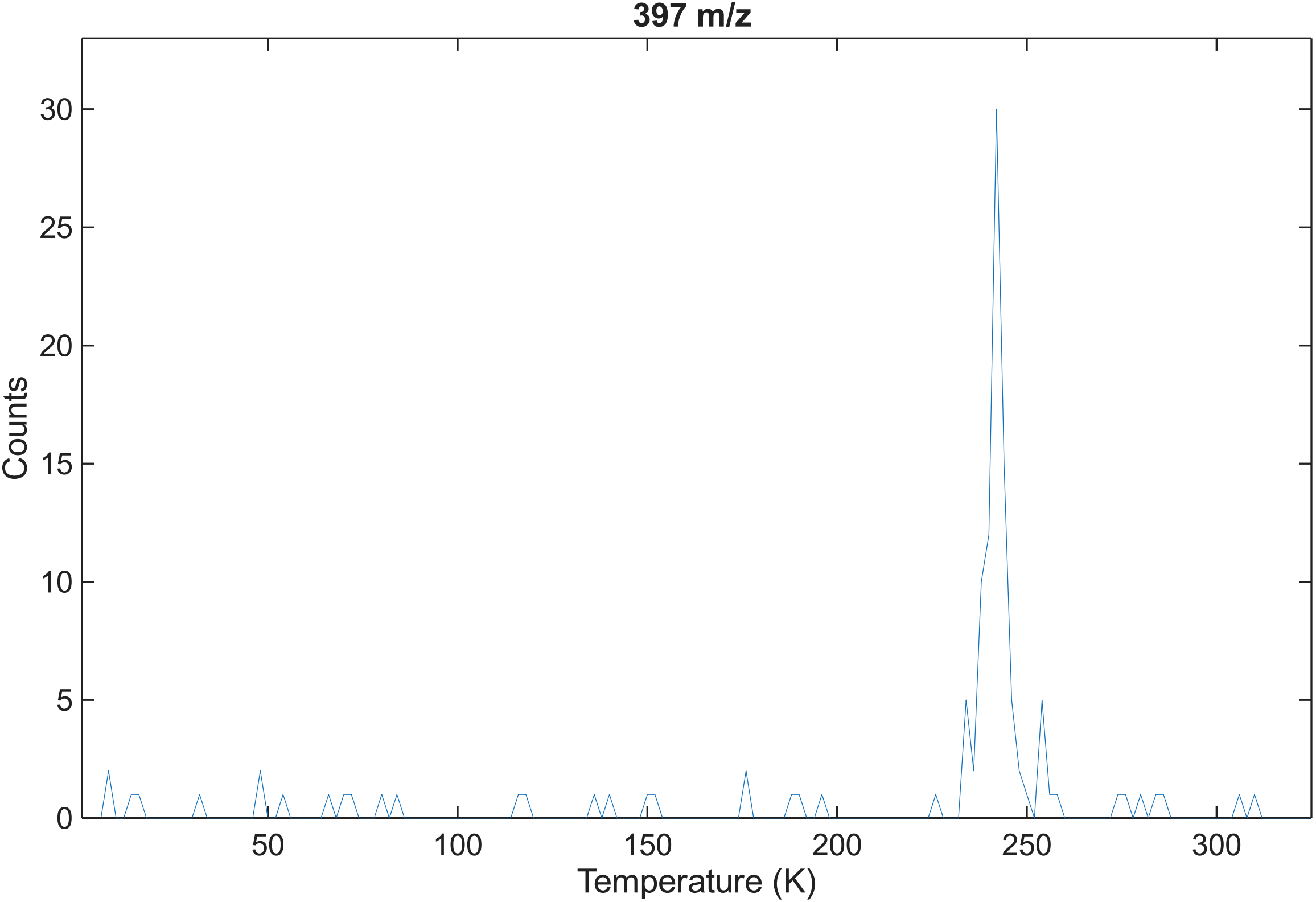
397 m/z
Counts
Temperature (K)
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20
25
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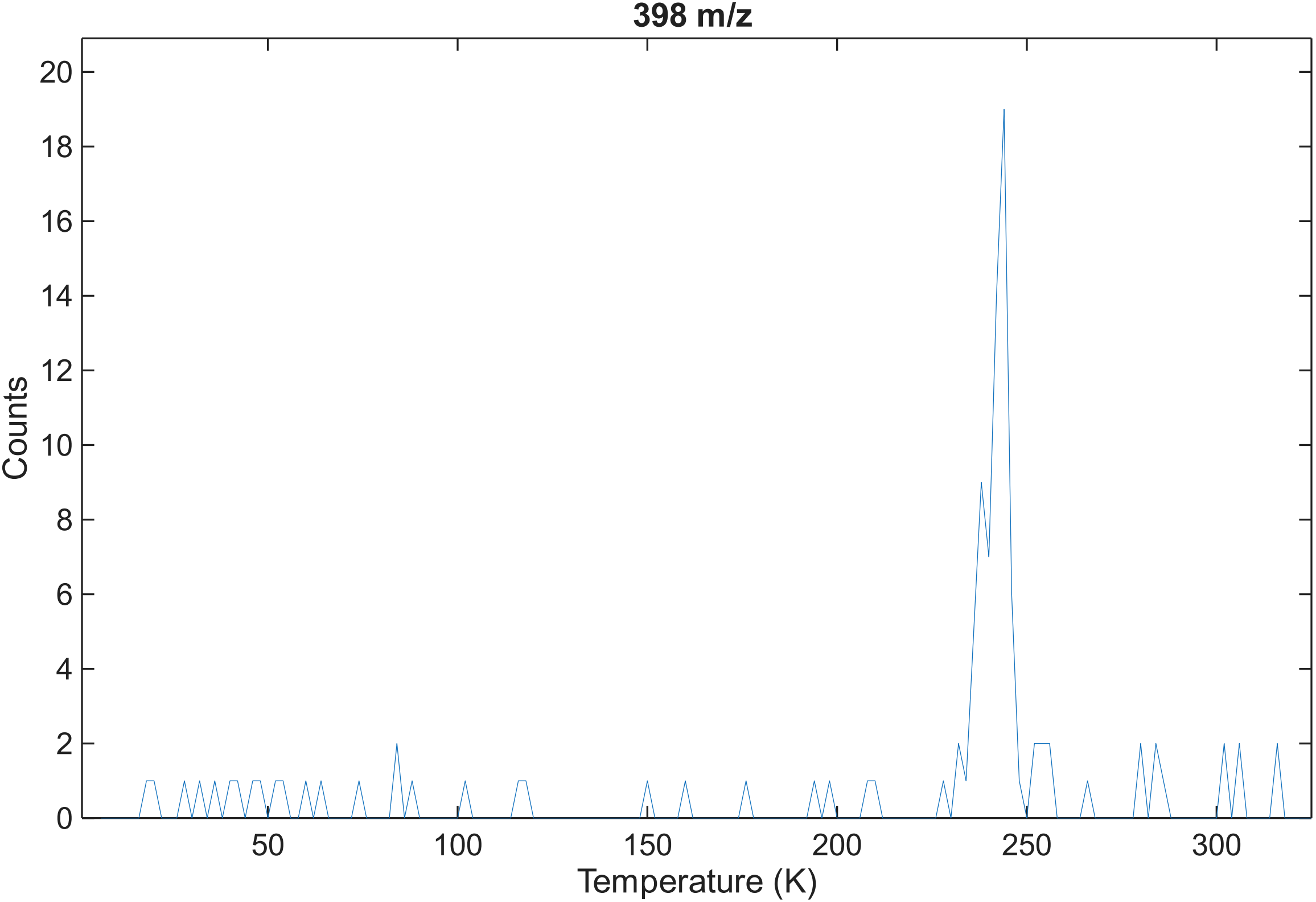
398 m/z
Counts
Temperature (K)
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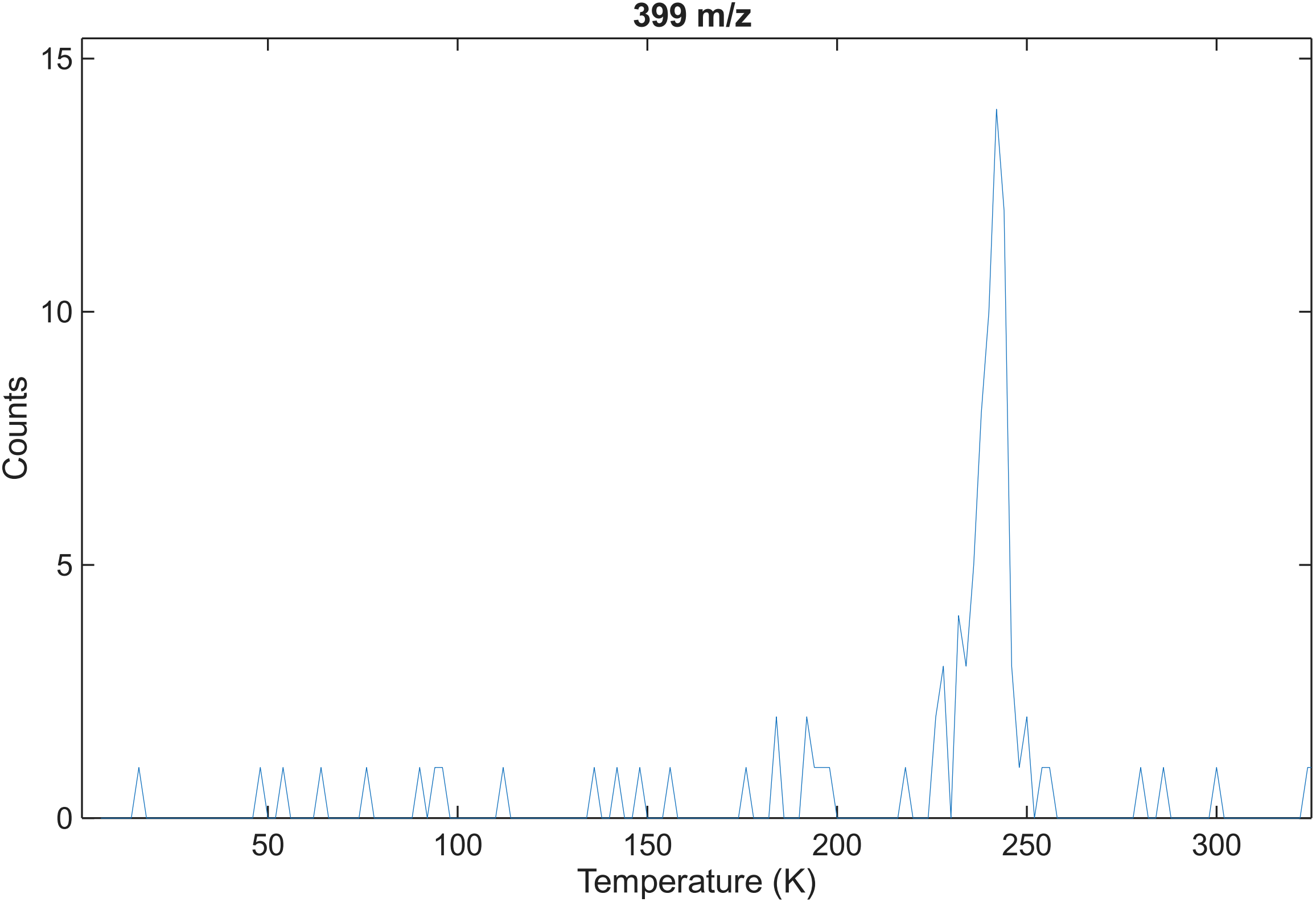
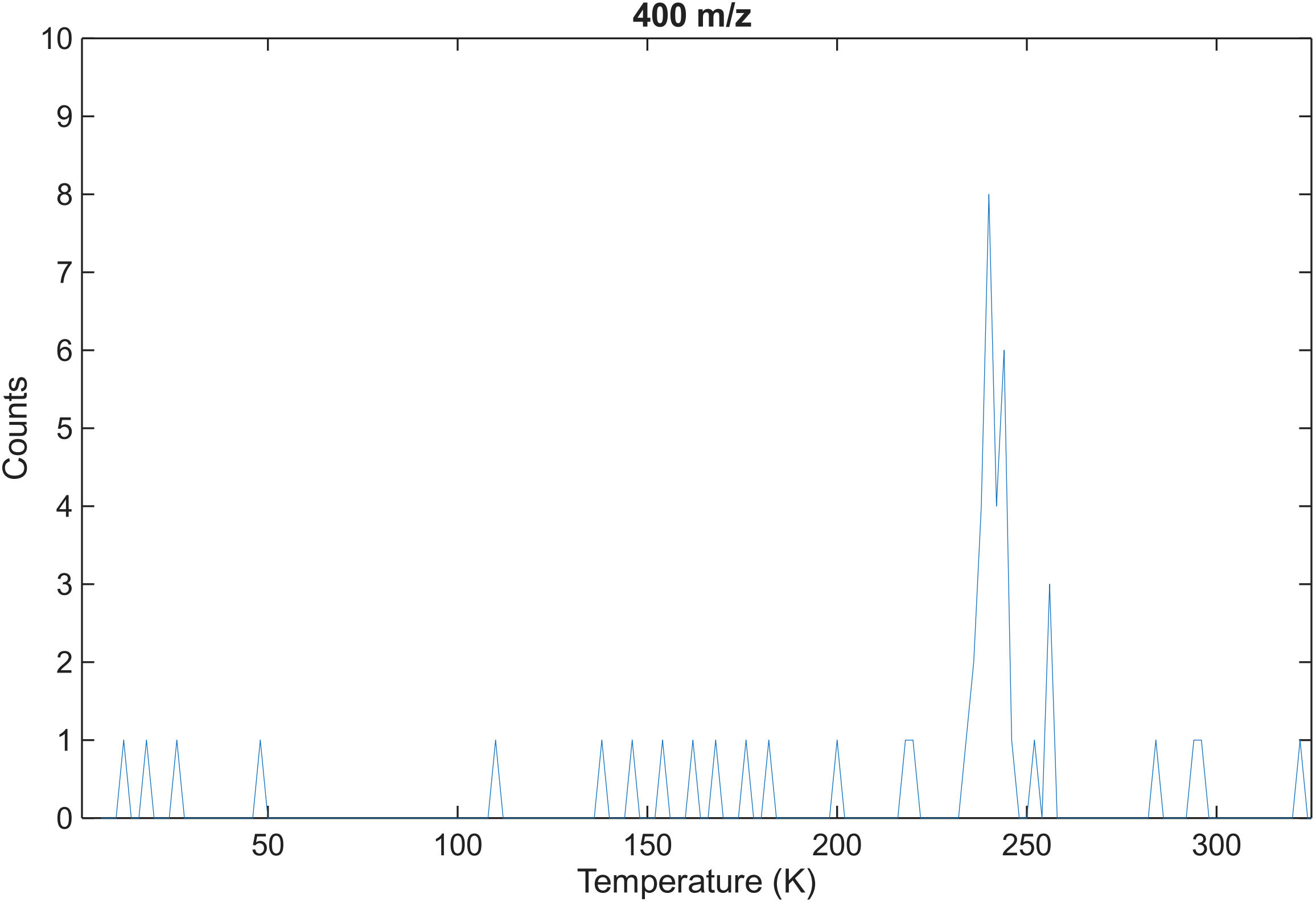

399 m/z
15
10
5
0
Counts
50
100
150
200
250
300
Temperature (K)


400 m/z
Counts
Temperature (K)
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1
2
3
4
5
6
7
8
9
10
50
100
150
200
250
300