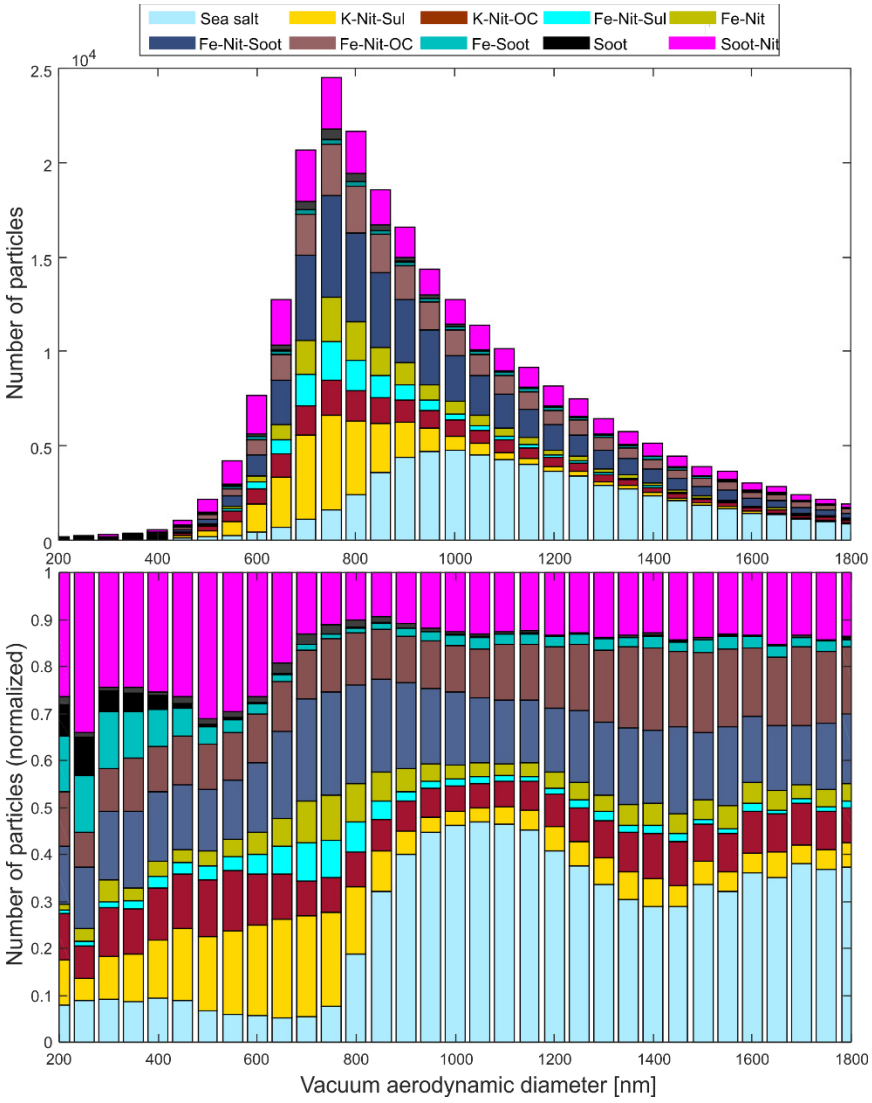
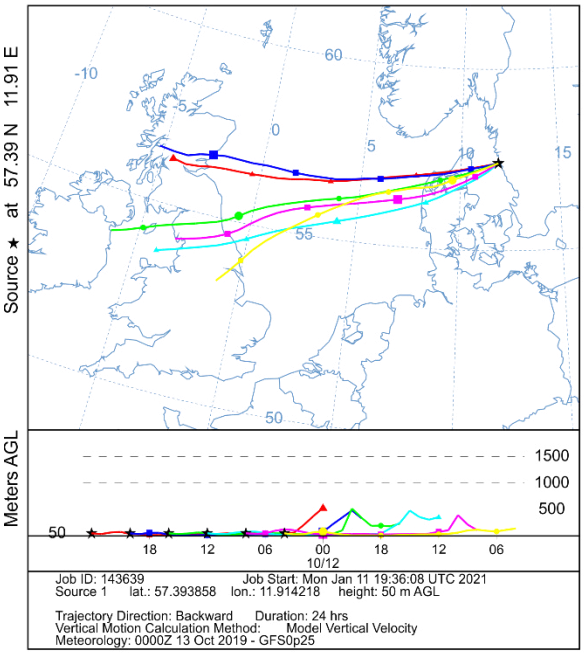


Fig. S1: Vacuum aerodynamic diameter of the general particle classes with respect to LDI mass spectra.

Fig. S2 (below): HYSPLIT back trajectories for 24 h run time, ending at the measurement site.

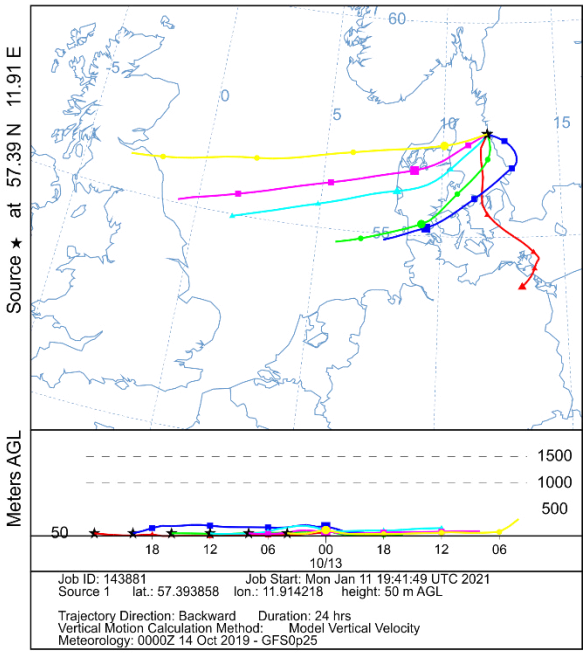
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 13 Oct 19
GFSQ Meteorological Data



Job ID: 143639 Job Start: Mon Jan 11 19:36:08 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 13 Oct 2019 - GFS0p25

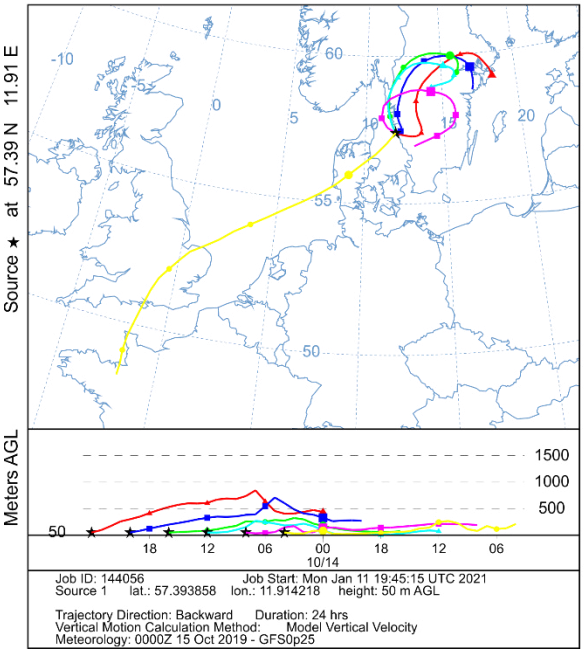
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 14 Oct 19
GFSQ Meteorological Data



Job ID: 143881 Job Start: Mon Jan 11 19:41:49 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 14 Oct 2019 - GFS0p25

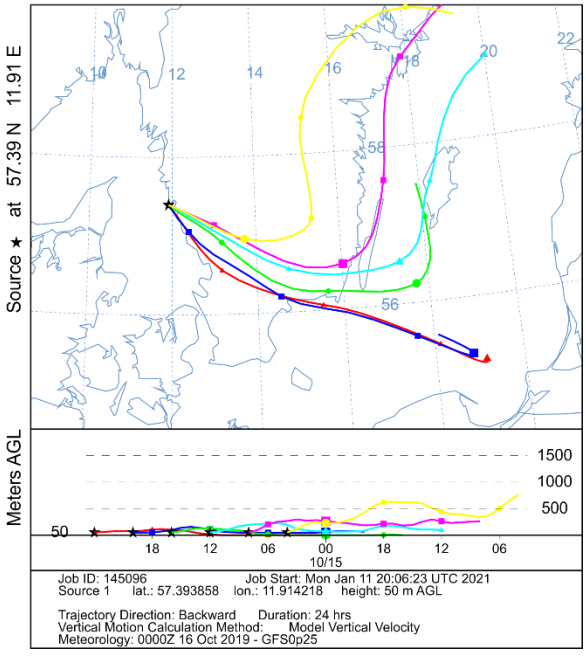
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 15 Oct 19
GFSQ Meteorological Data



Job ID: 144056 Job Start: Mon Jan 11 19:45:15 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 15 Oct 2019 - GFS0p25

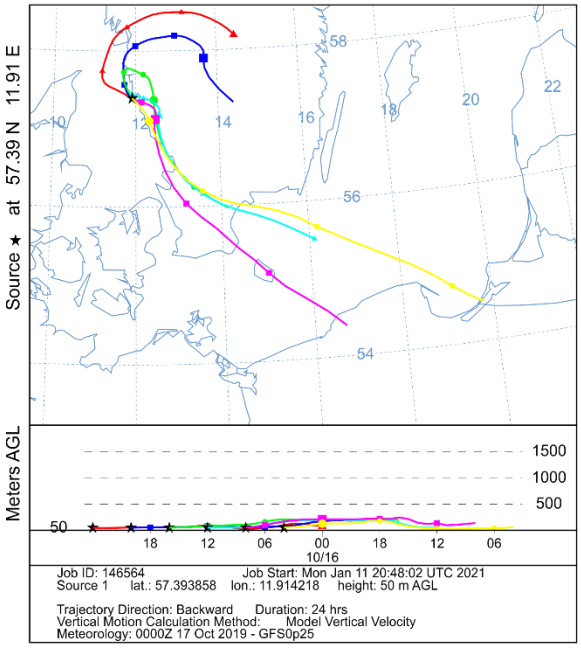
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 16 Oct 19
GFSQ Meteorological Data



Job ID: 145096 Job Start: Mon Jan 11 20:06:23 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 16 Oct 2019 - GFS0p25

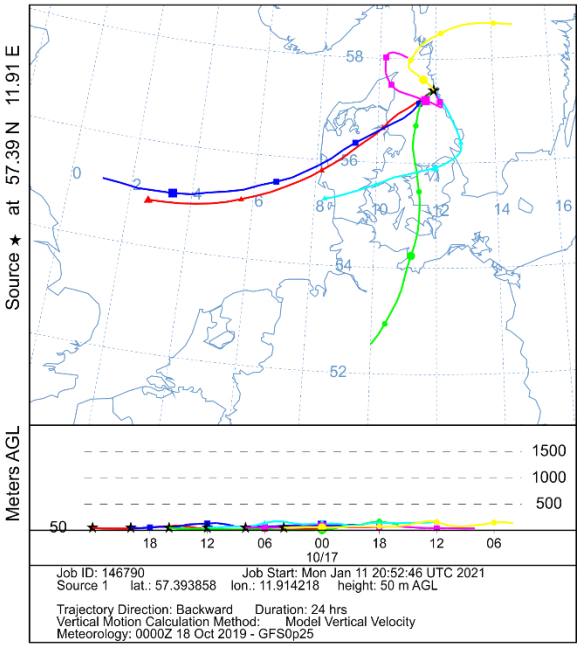
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 17 Oct 19
GFSQ Meteorological Data



Job ID: 146564 Job Start: Mon Jan 11 20:48:02 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 17 Oct 2019 - GFS0p25

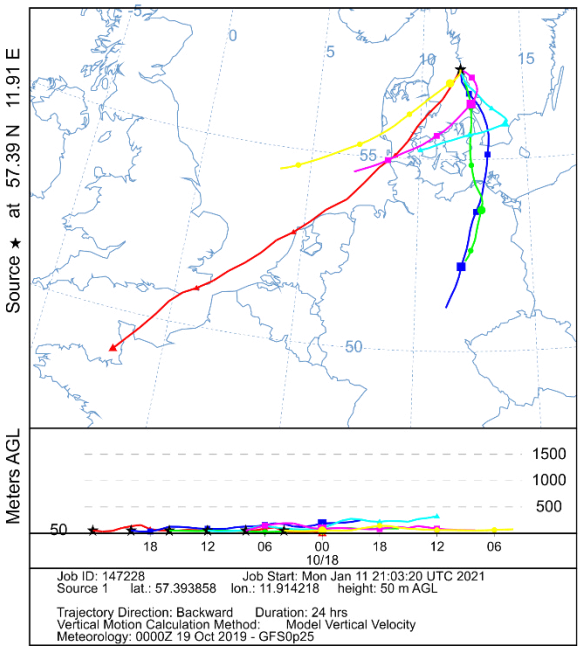
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 18 Oct 19
GFSQ Meteorological Data



Job ID: 146790 Job Start: Mon Jan 11 20:52:46 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 18 Oct 2019 - GFS0p25

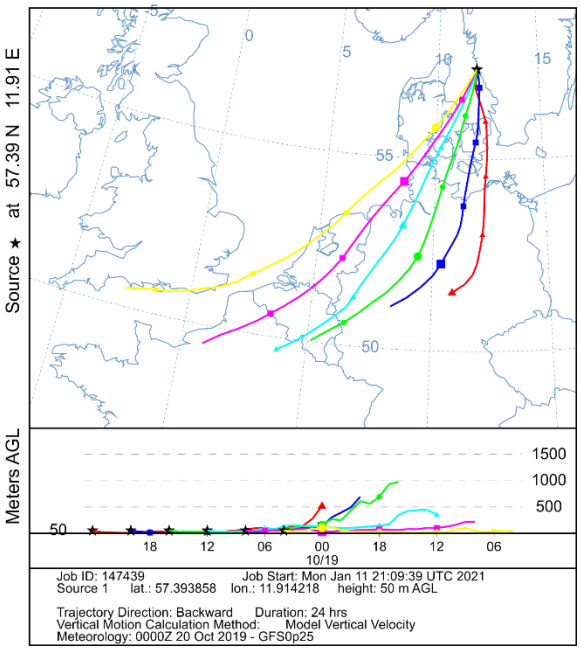
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 19 Oct 19
GFSQ Meteorological Data



Job ID: 147228 Job Start: Mon Jan 11 21:03:20 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 19 Oct 2019 - GFS0p25

NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 20 Oct 19
GFSQ Meteorological Data



Job ID: 147439 Job Start: Mon Jan 11 21:09:39 UTC 2021
Source 1 lat.: 57.393858 lon.: 11.914218 height: 50 m AGL

Trajectory Direction: Backward Duration: 24 hrs
Vertical Motion Calculation Method: Model Vertical Velocity
Meteorology: 0000Z 20 Oct 2019 - GFS0p25

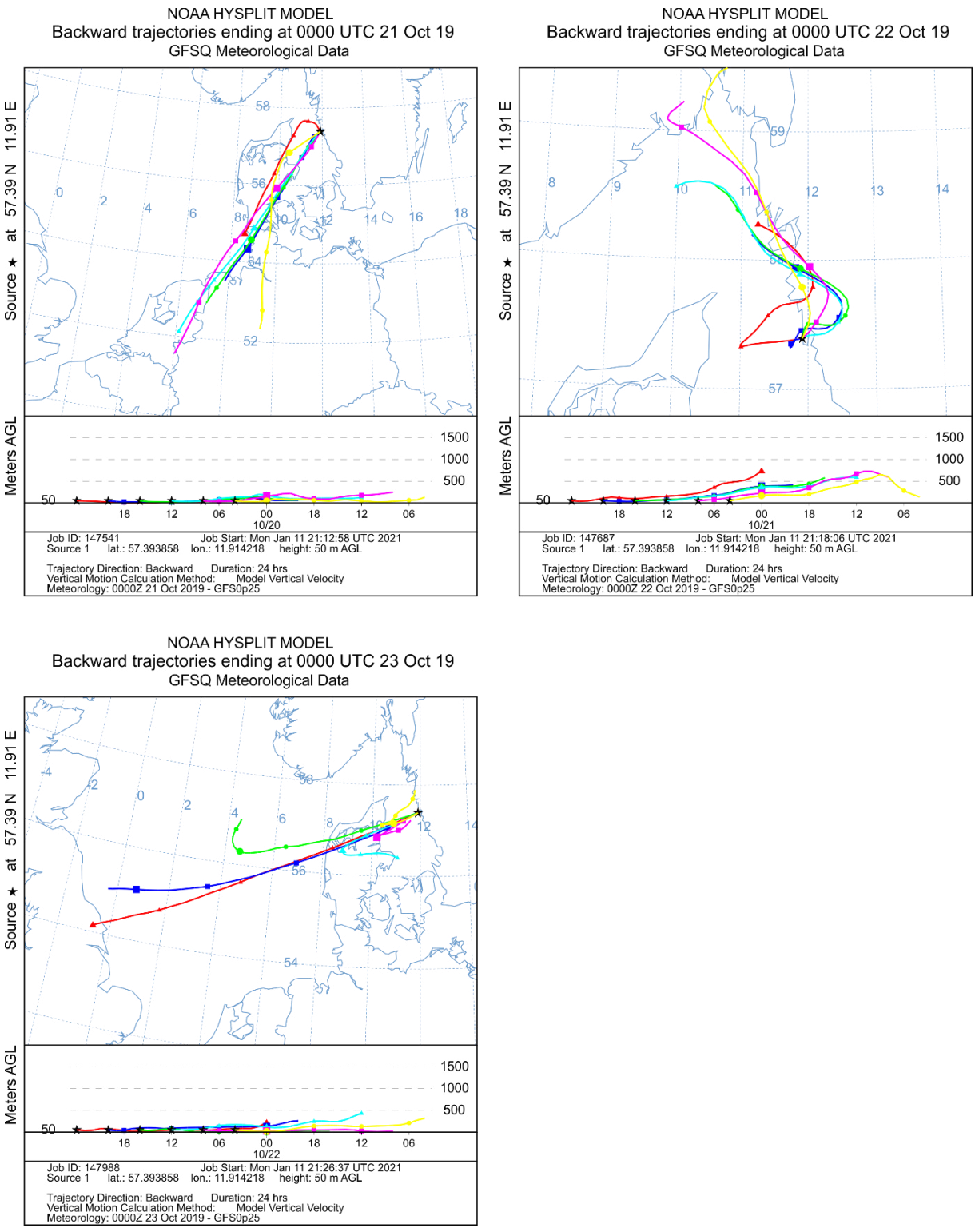


Fig. S2: HYSPLIT back trajectories for 24 h run time, ending at the measurement site.

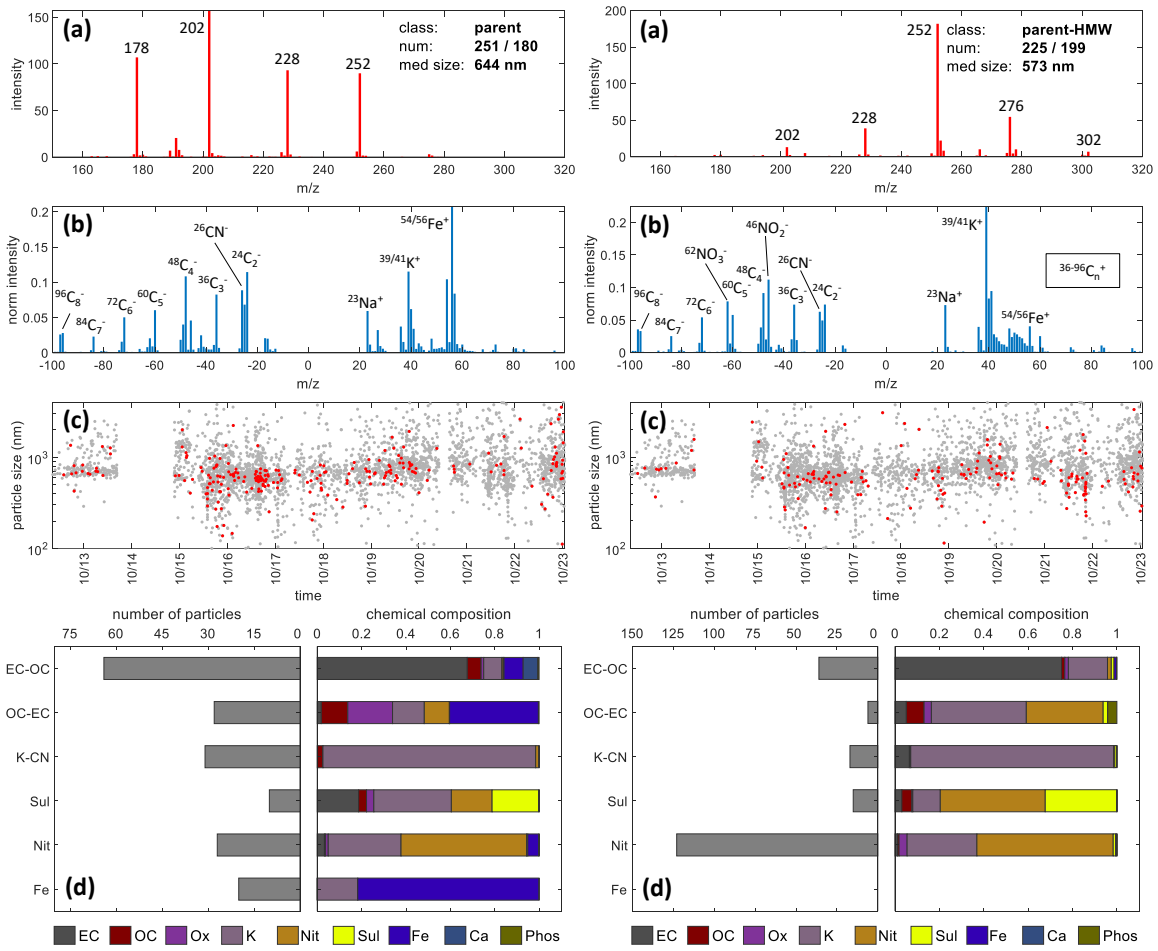


Fig. S3: Particles with signatures of only 'parent' PAHs show secondary nitrate more frequently than the "common" type (manuscript, Fig. 5), possibly as a result of PAH degradation by atmospheric ageing. (For figure explanation, see Fig. 5.)

Fig. S4: Additional 'parent' PAH peaks at high masses can result from wood combustion, but the further increased nitrate and sulfate signals could also be indicative for an advanced stage of ageing. (For figure explanation, see Fig. 5.)

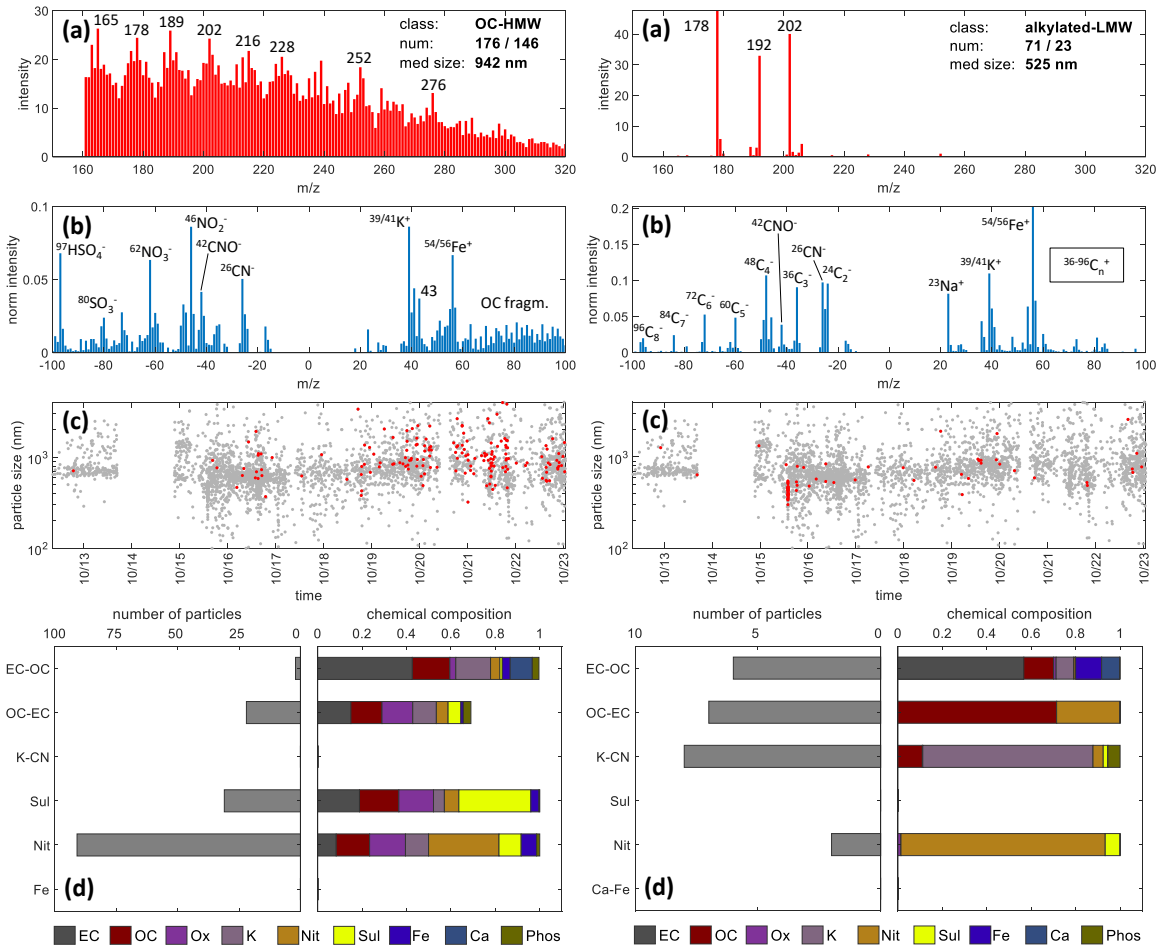


Fig. S5: Rows of high-mass OC peaks dominating are frequently associated with strong sulfate signals in addition to the nitrate, indicating enhanced SOA and oligomer formation by particle acidity. (For figure explanation, see Fig. 5.)

Fig. S6: Particles with strong signals from alkylated PAHs of low molecular weight could be attributed to a green waste burning fire at the 15th of October. (For figure explanation, see Fig. 5.)

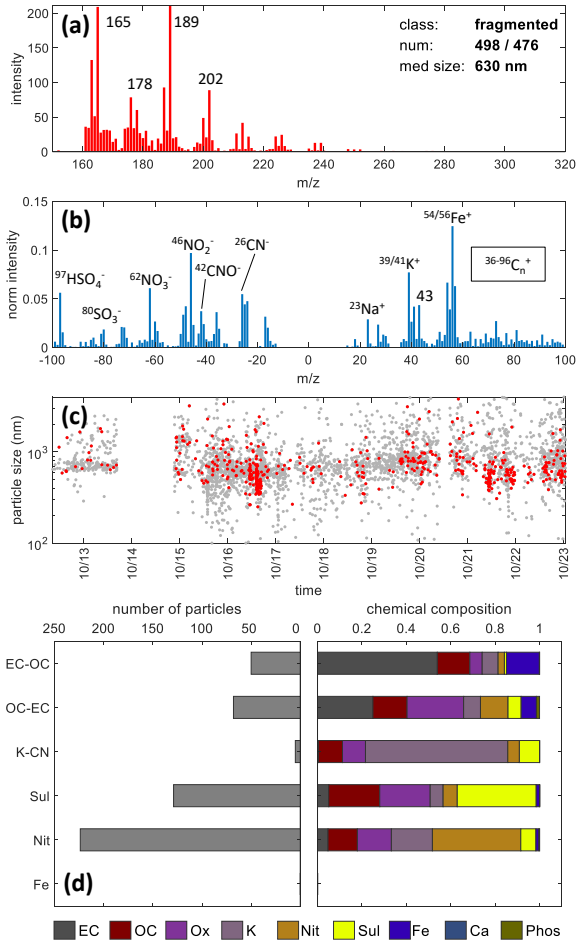


Fig. S7: Some particles show a characteristic fragment pattern with additional peaks at -2 m/z for each PAH signal and strong signals from secondary nitrate and sulfate. They could so far not be associated with a specific source or atmospheric process. (For figure explanation, see Fig. 5.)

Tab. S1: Assignment of the top-300 clusters of the ART-2a analysis of LDI mass spectra to main particle classes. The cluster spectra and temporal behavior are given in Fig. S8.

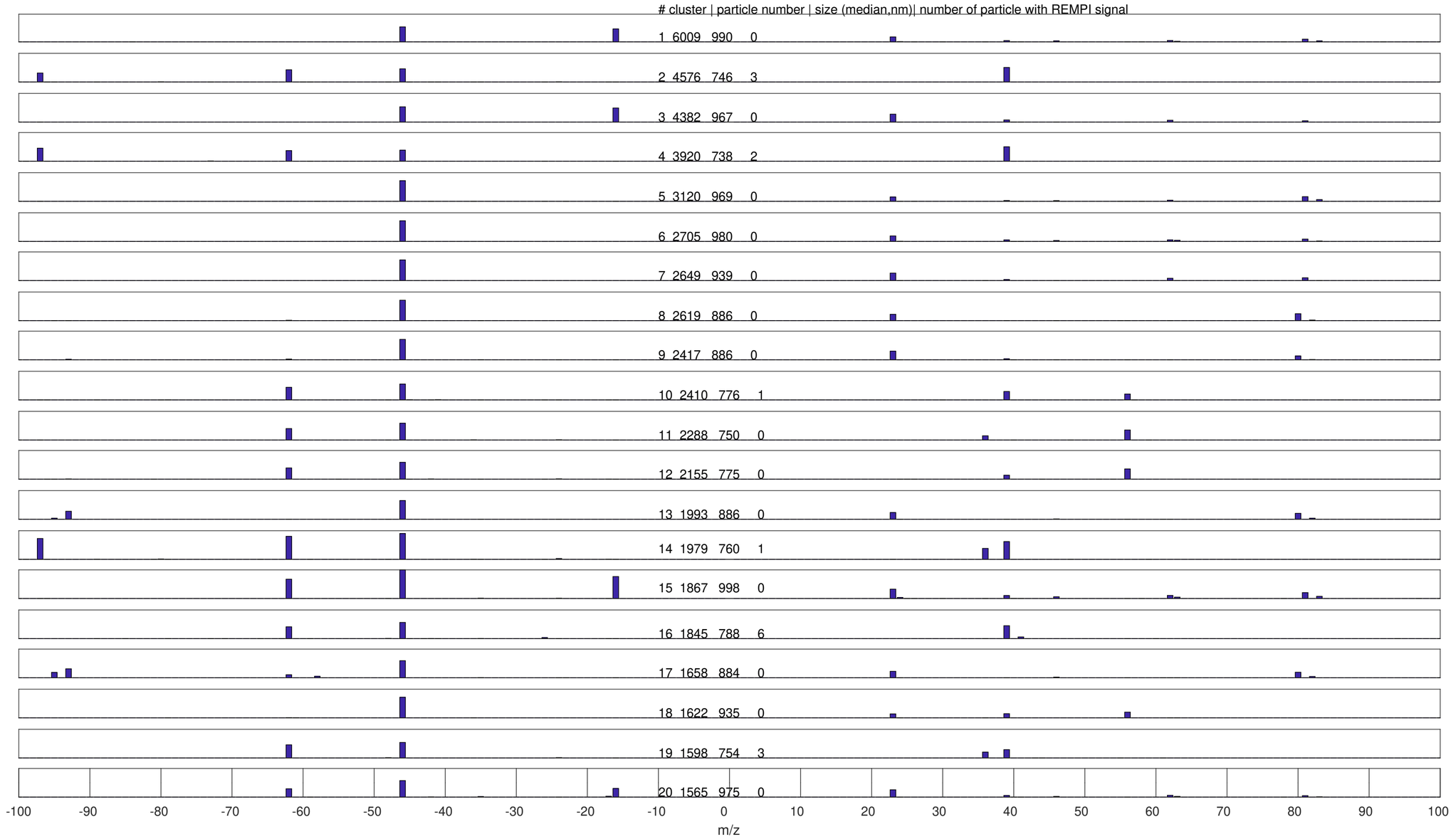
Sea salt	K-Nit-Sul	K-Nit-OC	Fe-Nit-Sul	Fe-Nit	Fe-Nit-Soot	Fe-Nit-OC	Fe-Soot	Soot	Soot-Nit
1	2	16	36	10	27	43	62	220	192
3	4	26	37	11	28	53	149		200
5	14	69	40	12	39	67	155		204
6	19	105	70	18	44	68	165		234
7	25	131	73	24	47	77	176		258
8	34	133	124	29	49	83	178		263
9	104	141	125	48	50	84	197		278
13	114	161	127	74	51	85	231		
15	119	175	147	86	52	90			
17	170	181	151	138	55	96			
20	174	186	158	139	58	97			
21	177	193	187	236	60	101			
22	182	199	209	238	66	106			
23	189	206	288		75	109			
30	190	212			76	110			
31	191	228			78	111			
32	194	233			79	112			
33	195	240			80	113			
35	202	245			81	117			
38	205	247			88	121			
41	207	248			89	122			
42	224	249			91	126			
45	229	251			92	128			
46	230	253			94	130			
54	250	262			95	132			

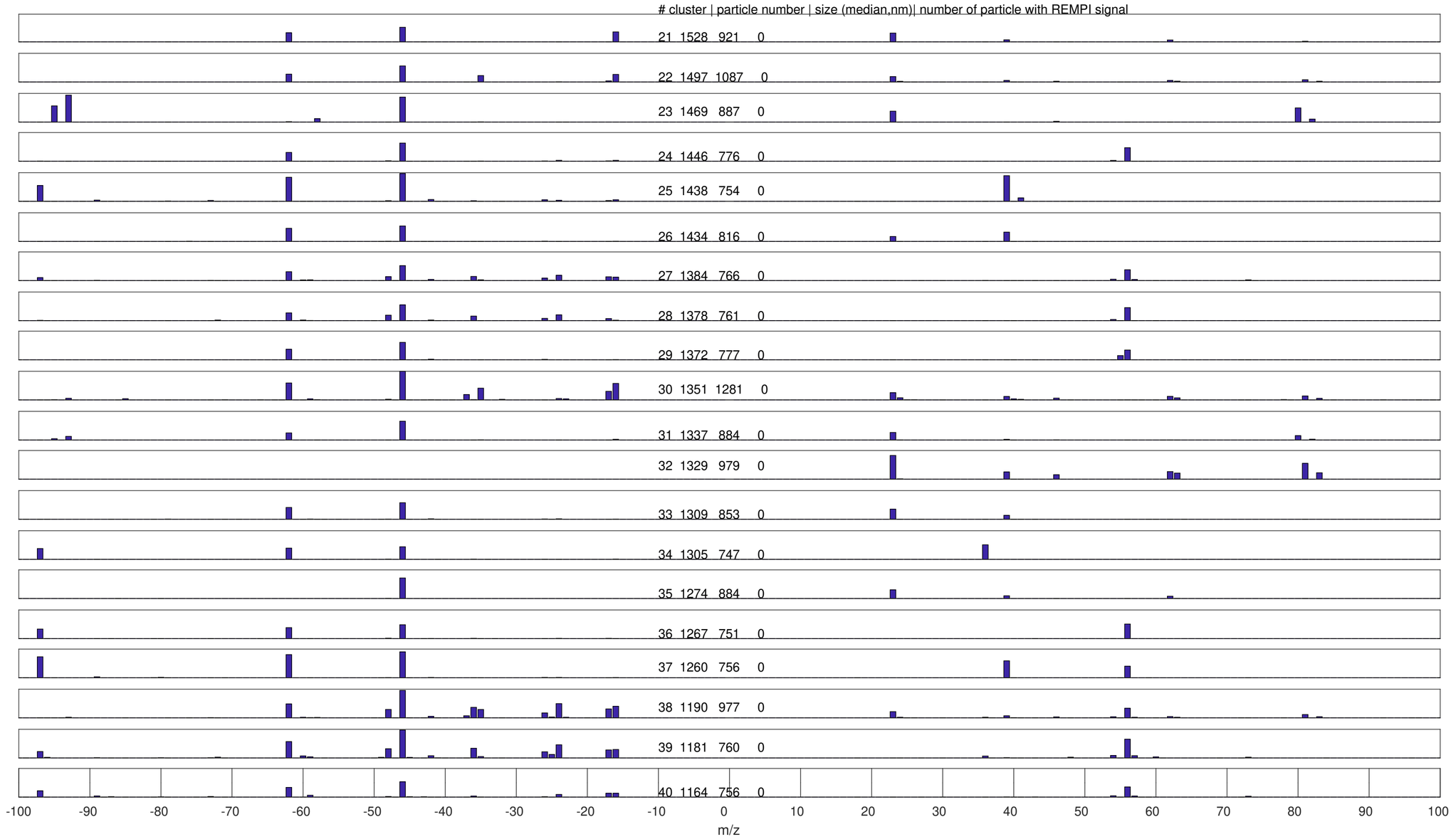
56	252	265			98	148			
57	254	270			99	150			
59	255	271			100	152			
61	256	272			103	153			
63	257	275			107	154			
64	264	280			108	157			
65	282	281			115	164			
71	290	286			116	166			
72	293	287			118	172			
82	295	291			120	179			
87	299	292			129	198			
93		300			134	221			
102					136	223			
123					140	232			
135					144	235			
137					145	259			
142					146	261			
143					156	266			
160					159	273			
163					162	284			
169					167				
171					168				
180					173				
183					208				
184					213				
185					214				
188					217				
196					218				
201					219				
210					222				
211					237				
215					237				
225					239				
226					242				
227					243				
241					244				
246					260				
267					269				
268					276				
274					277				
283					279				
289					294				
298					296				
					297				

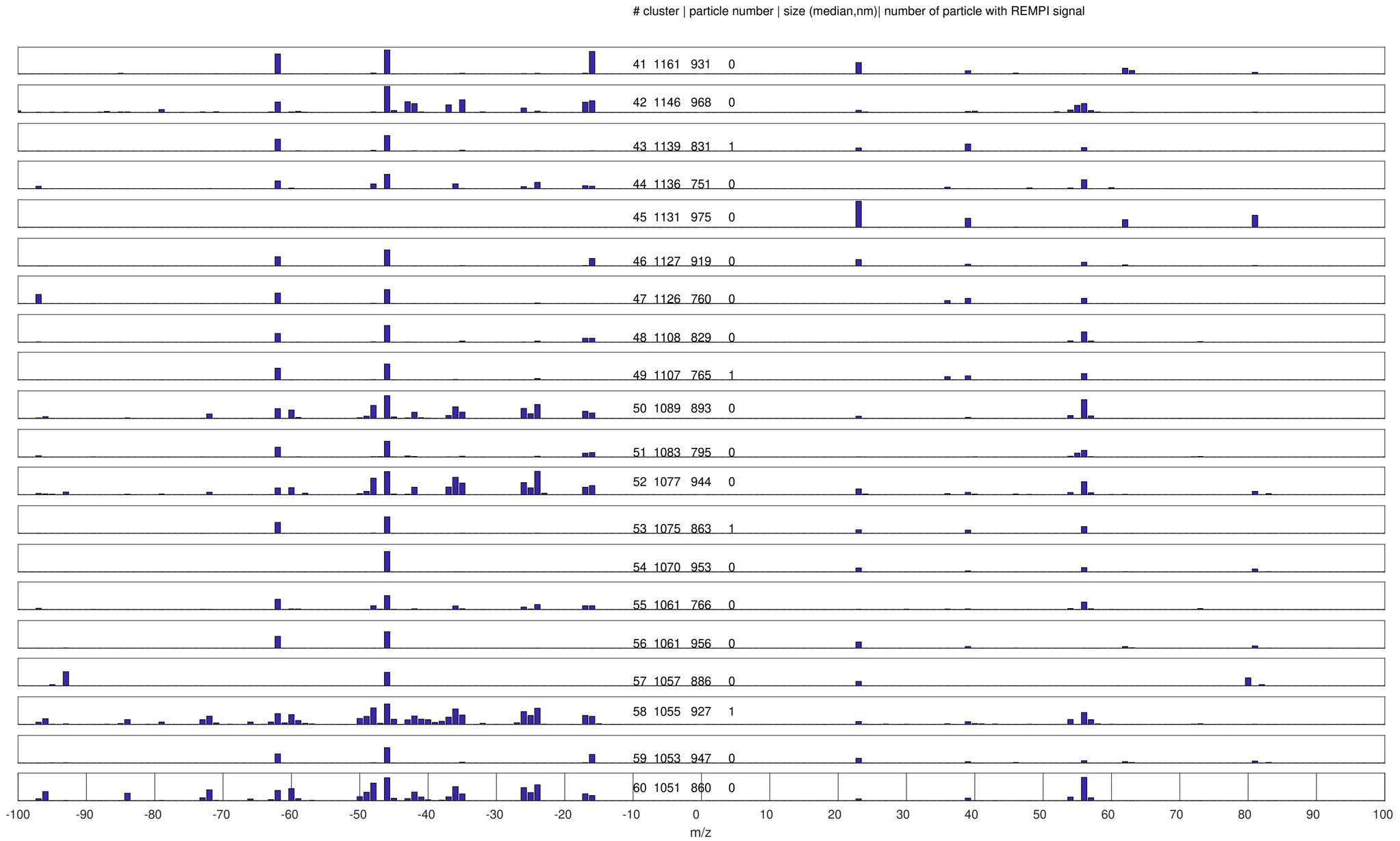
Tab. S2: Assignment of the top-300 clusters of the ART-2a analysis of REMPI mass spectra to main (PAH) particle classes. The cluster spectra and temporal behavior are given in Fig. S9. The missing clusters reveal high-mass signatures of inorganic compounds (e.g. Pb^+, $K_3PO_4^+$ etc.) but no PAHs.

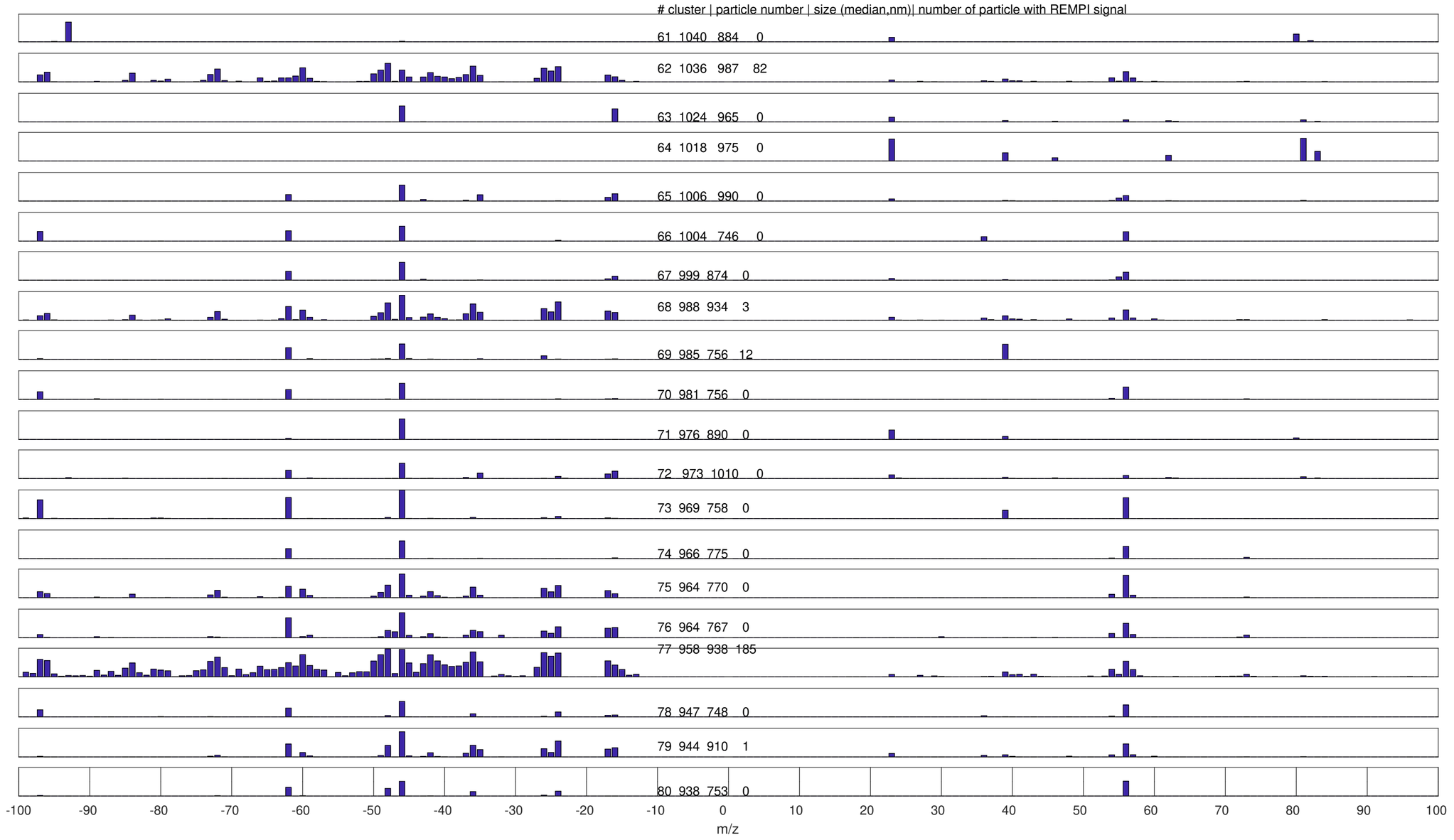
Common	PAH-HMW	Parent	Parent-HMW	PAH-OC-LMW	PAH-OC-HMW	OC-HMW	Alkylated	Alkylated-LMW	Fragmented
12	54	41	36	23	38	35	63	49	46
15	76	43	92	28		39	67		55
19	108	81	107	32			85		57
24	158	90	155	34			180		60
31			165	42					72
37			176	45					79
40			177	53					109
47									110
48									111
68									121
69									123
70									
82									
118									
119									
122									
157									
173									

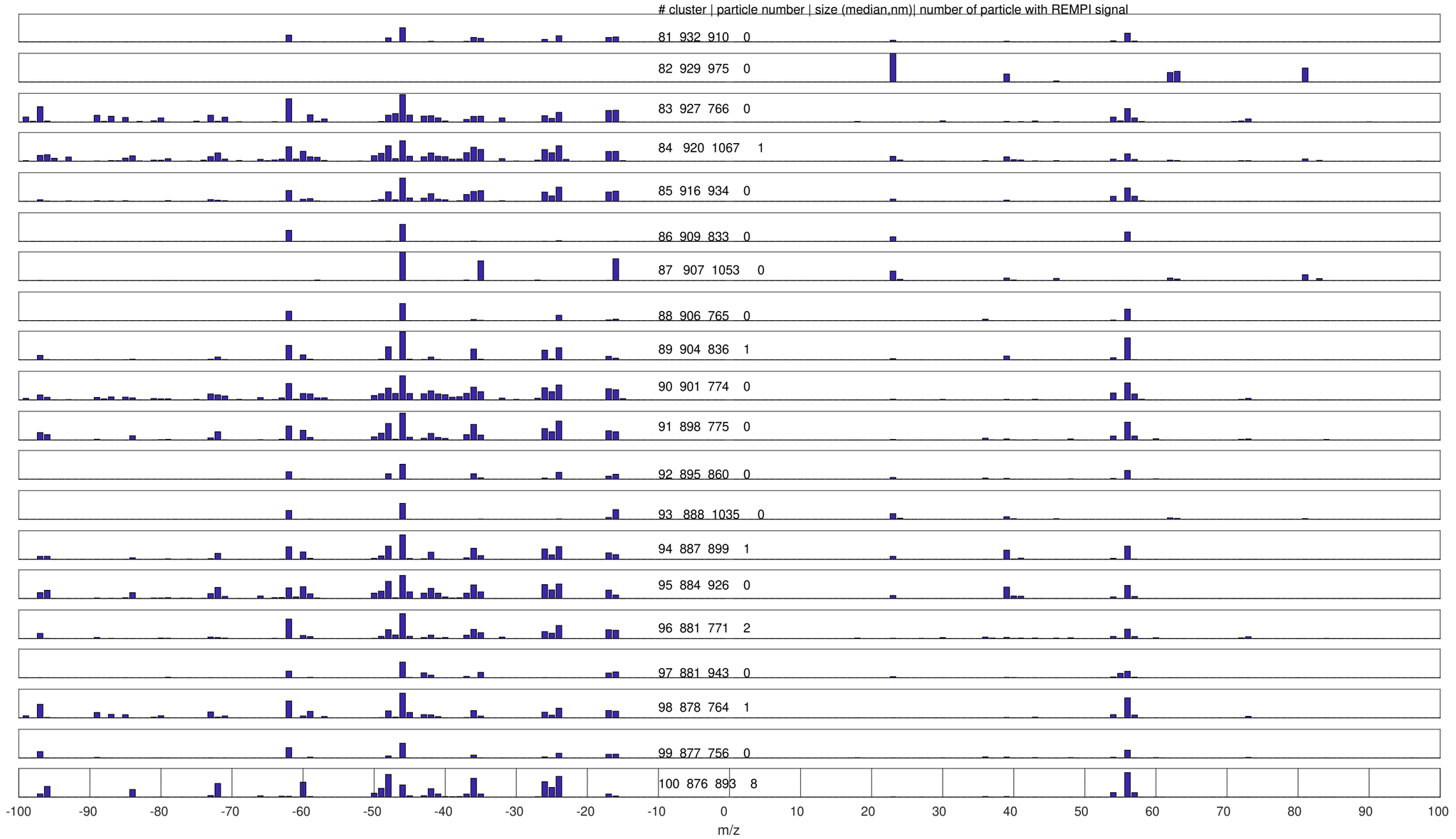
Fig. S8 (below): Top-300 clusters of the ART-2a analysis of single-particle LDI mass spectra. The detection times of each particle belonging to the respective cluster are plotted below.

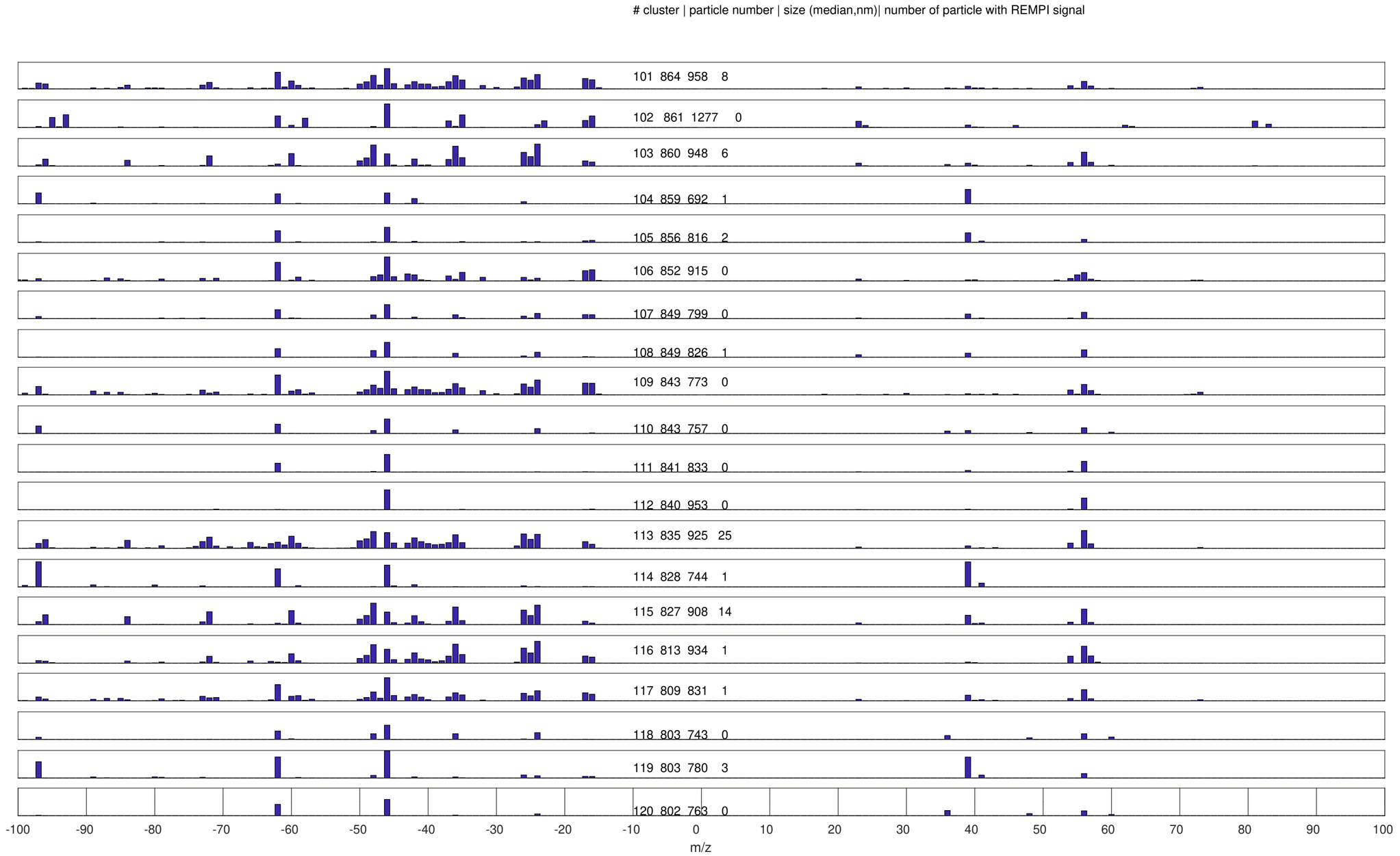

cluster | particle number | size (median,nm)| number of particle with REMPI signal
1 6009 990 0
2 4576 746 3
3 4382 967 0
4 3920 738 2
5 3120 969 0
6 2705 980 0
7 2649 939 0
8 2619 886 0
9 2417 886 0
10 2410 776 1
11 2288 750 0
12 2155 775 0
13 1993 886 0
14 1979 760 1
15 1867 998 0
16 1845 788 6
17 1658 884 0
18 1622 935 0
19 1598 754 3
20 1565 975 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

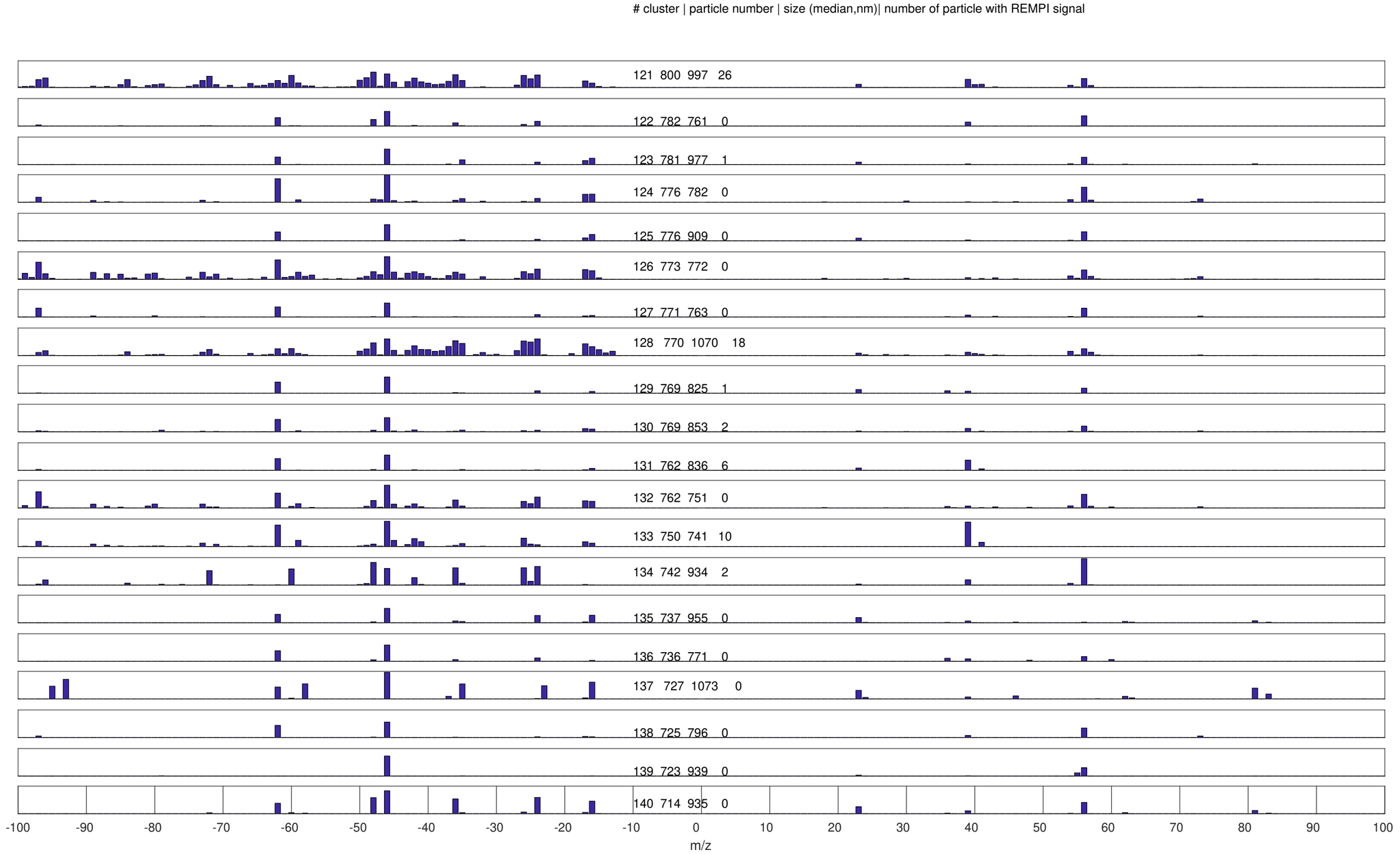

cluster | particle number | size (median,nm)| number of particle with REMPI signal
21 1528 921 0
22 1497 1087 0
23 1469 887 0
24 1446 776 0
25 1438 754 0
26 1434 816 0
27 1384 766 0
28 1378 761 0
29 1372 777 0
30 1351 1281 0
31 1337 884 0
32 1329 979 0
33 1309 853 0
34 1305 747 0
35 1274 884 0
36 1267 751 0
37 1260 756 0
38 1190 977 0
39 1181 760 0
40 1164 756 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

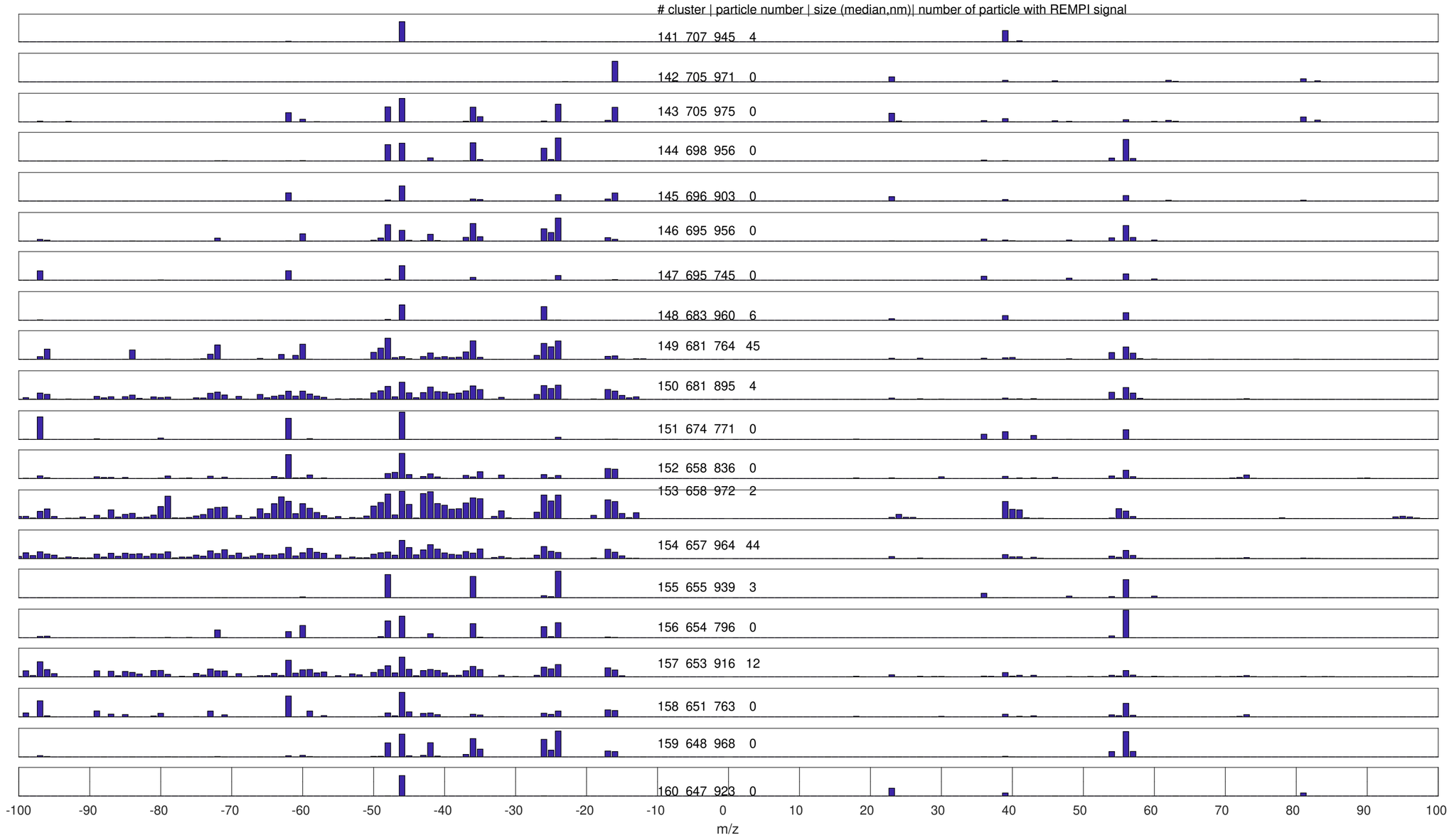

cluster | particle number | size (median,nm)| number of particle with REMPI signal
41 1161 931 0
42 1146 968 0
43 1139 831 1
44 1136 751 0
45 1131 975 0
46 1127 919 0
47 1126 760 0
48 1108 829 0
49 1107 765 1
50 1089 893 0
51 1083 795 0
52 1077 944 0
53 1075 863 1
54 1070 953 0
55 1061 766 0
56 1061 956 0
57 1057 886 0
58 1055 927 1
59 1053 947 0
60 1051 860 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

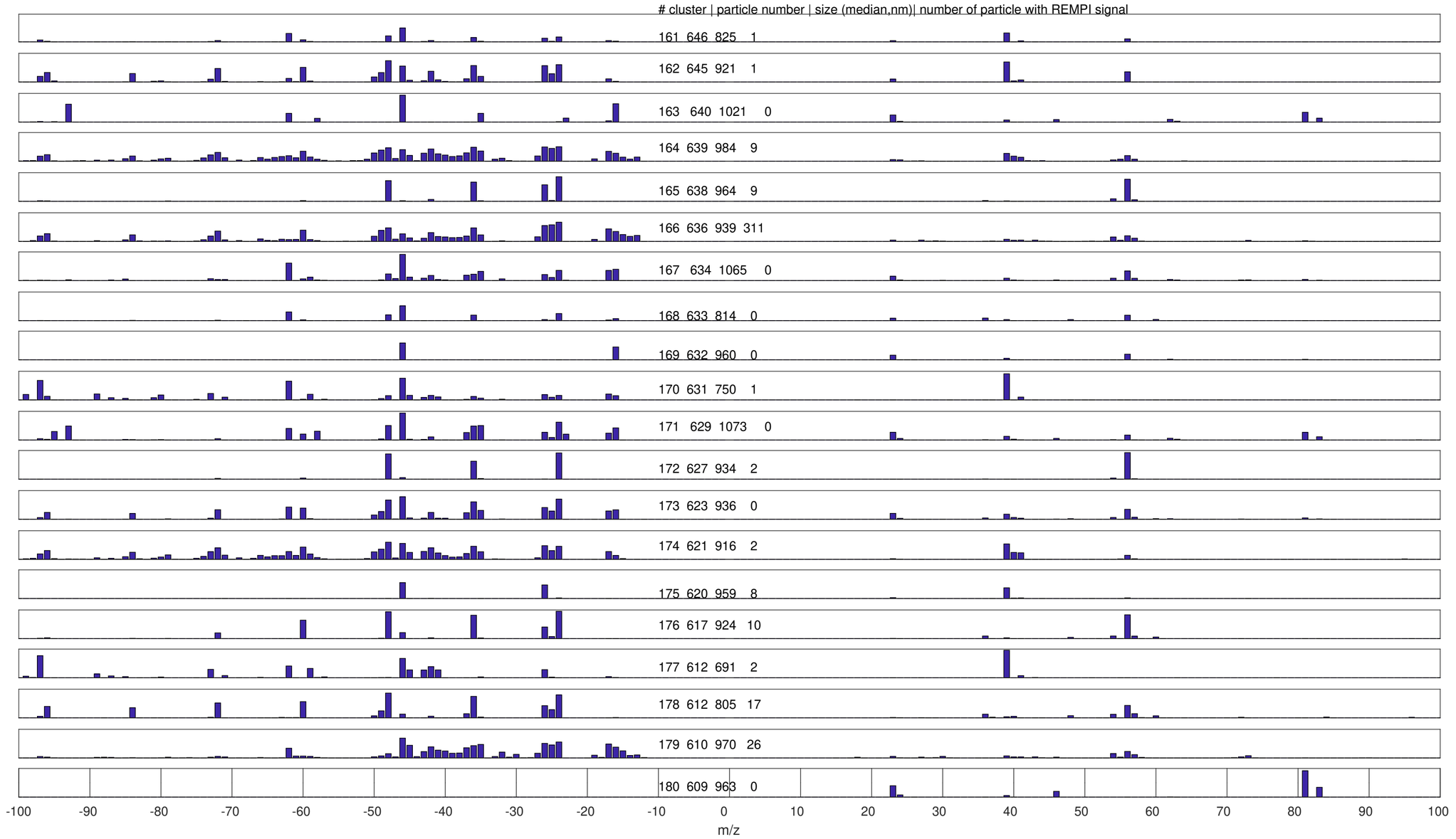

cluster | particle number | size (median,nm)| number of particle with REMPI signal
61 1040 884 0
62 1036 987 82
63 1024 965 0
64 1018 975 0
65 1006 990 0
66 1004 746 0
67 999 874 0
68 988 934 3
69 985 756 12
70 981 756 0
71 976 890 0
72 973 1010 0
73 969 758 0
74 966 775 0
75 964 770 0
76 964 767 0
77 958 938 185
78 947 748 0
79 944 910 1
80 938 753 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

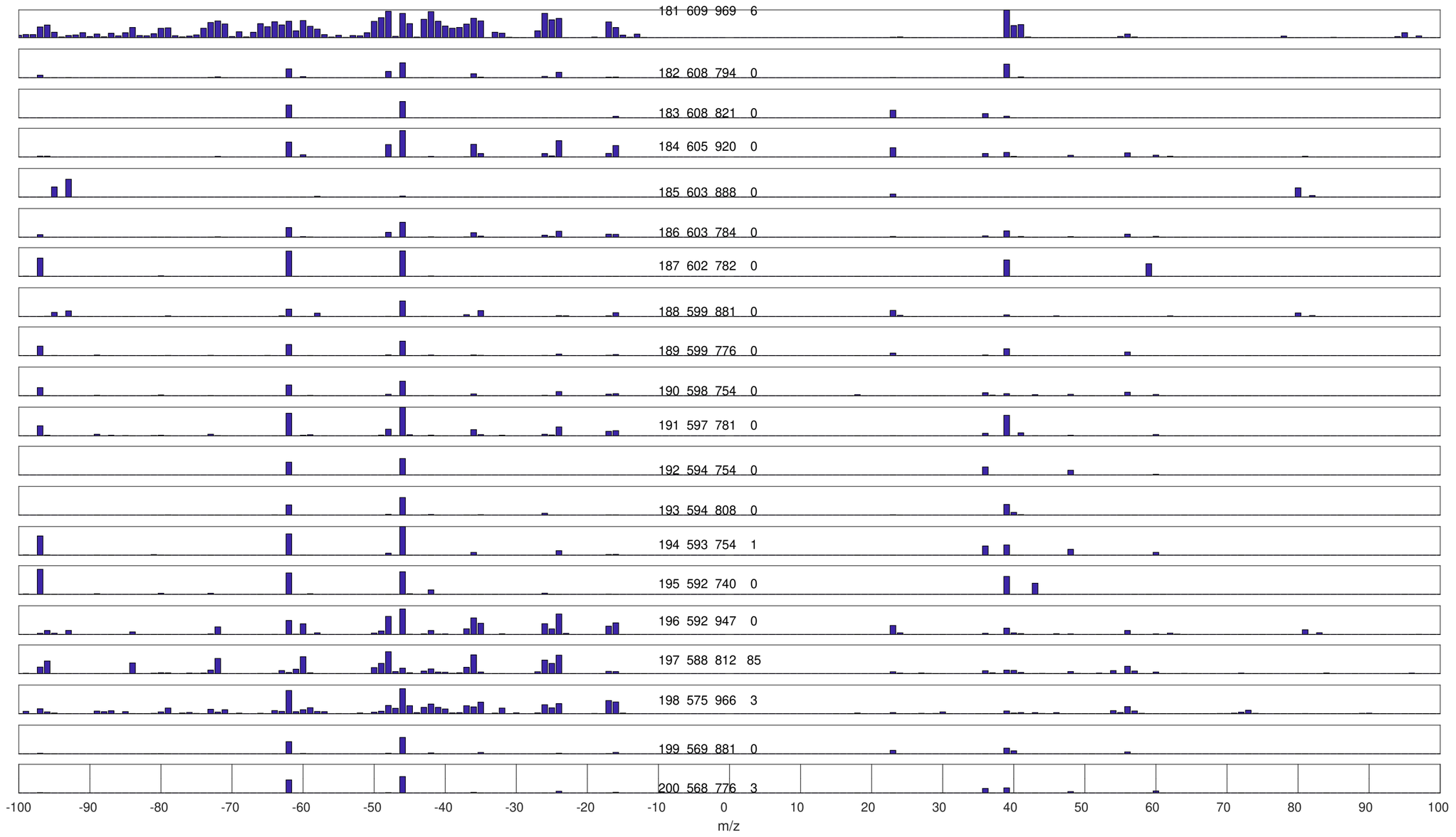

cluster | particle number | size (median,nm)| number of particle with REMPI signal
81 932 910 0
82 929 975 0
83 927 766 0
84 920 1067 1
85 916 934 0
86 909 833 0
87 907 1053 0
88 906 765 0
89 904 836 1
90 901 774 0
91 898 775 0
92 895 860 0
93 888 1035 0
94 887 899 1
95 884 926 0
96 881 771 2
97 881 943 0
98 878 764 1
99 877 756 0
100 876 893 8
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

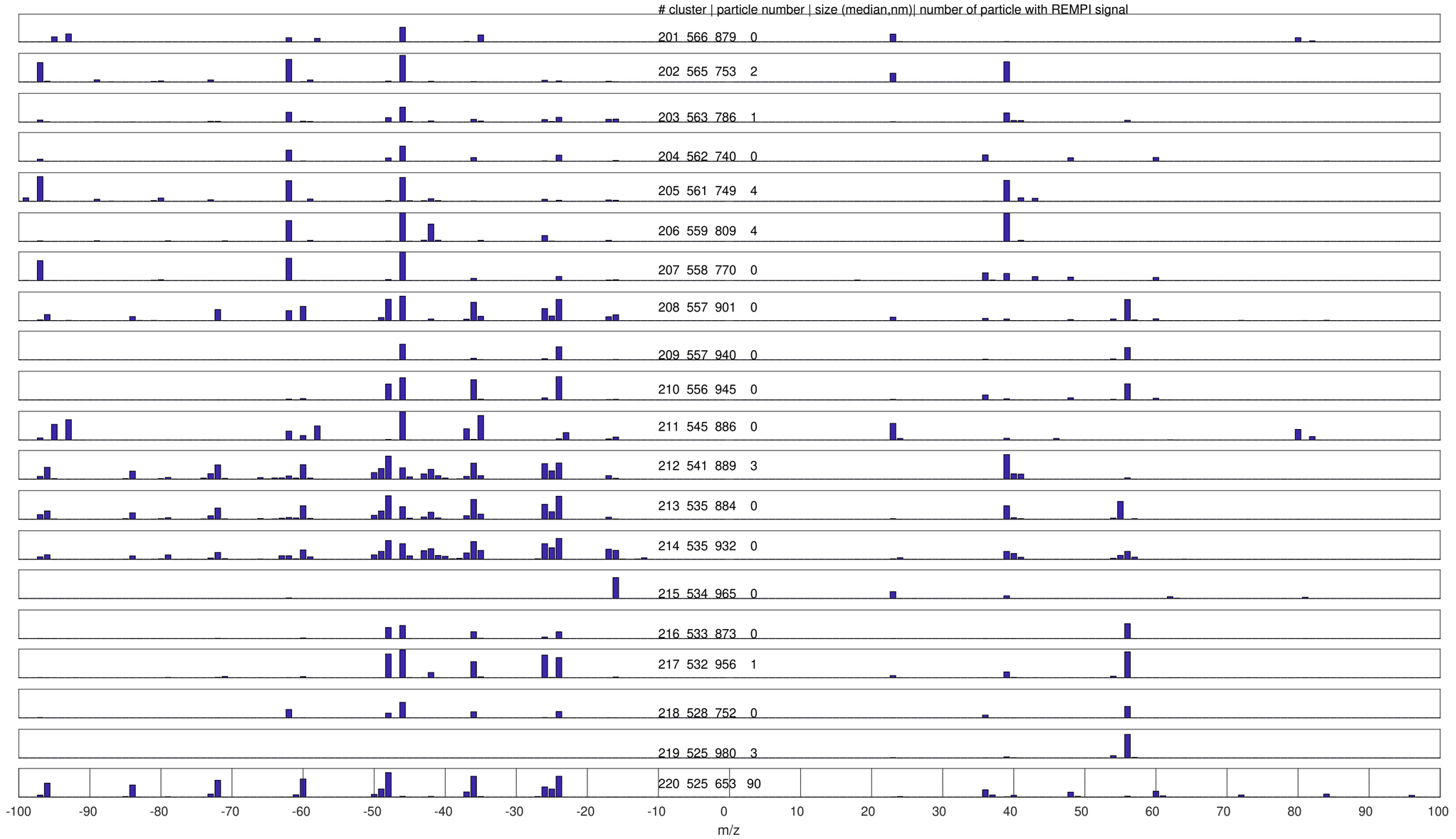

cluster | particle number | size (median,nm)| number of particle with REMPI signal
101 864 958 8
102 861 1277 0
103 860 948 6
104 859 692 1
105 856 816 2
106 852 915 0
107 849 799 0
108 849 826 1
109 843 773 0
110 843 757 0
111 841 833 0
112 840 953 0
113 835 925 25
114 828 744 1
115 827 908 14
116 813 934 1
117 809 831 1
118 803 743 0
119 803 780 3
120 802 763 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

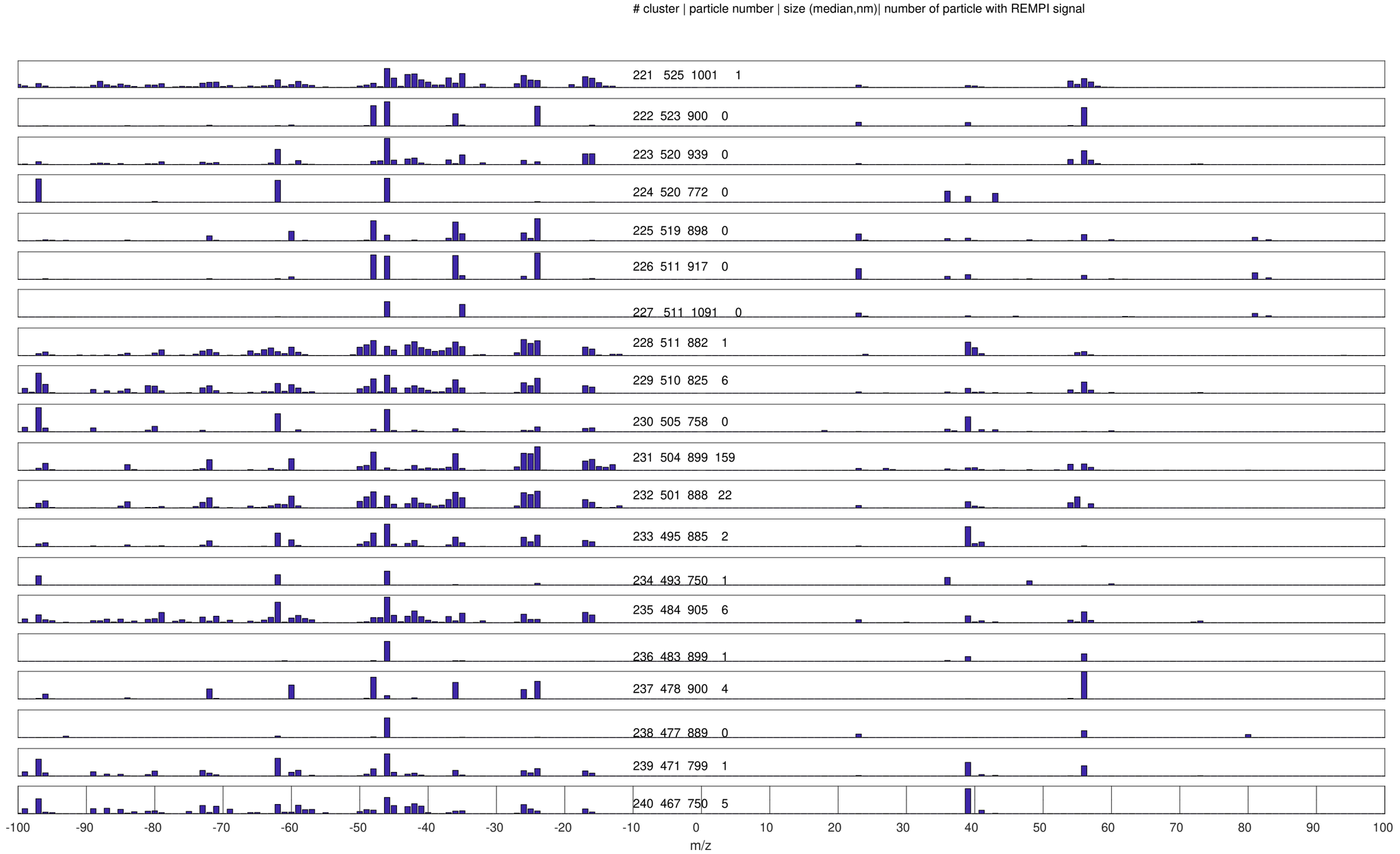

cluster | particle number | size (median,nm)| number of particle with REMPI signal
121 800 997 26
122 782 761 0
123 781 977 1
124 776 782 0
125 776 909 0
126 773 772 0
127 771 763 0
128 770 1070 18
129 769 825 1
130 769 853 2
131 762 836 6
132 762 751 0
133 750 741 10
134 742 934 2
135 737 955 0
136 736 771 0
137 727 1073 0
138 725 796 0
139 723 939 0
140 714 935 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

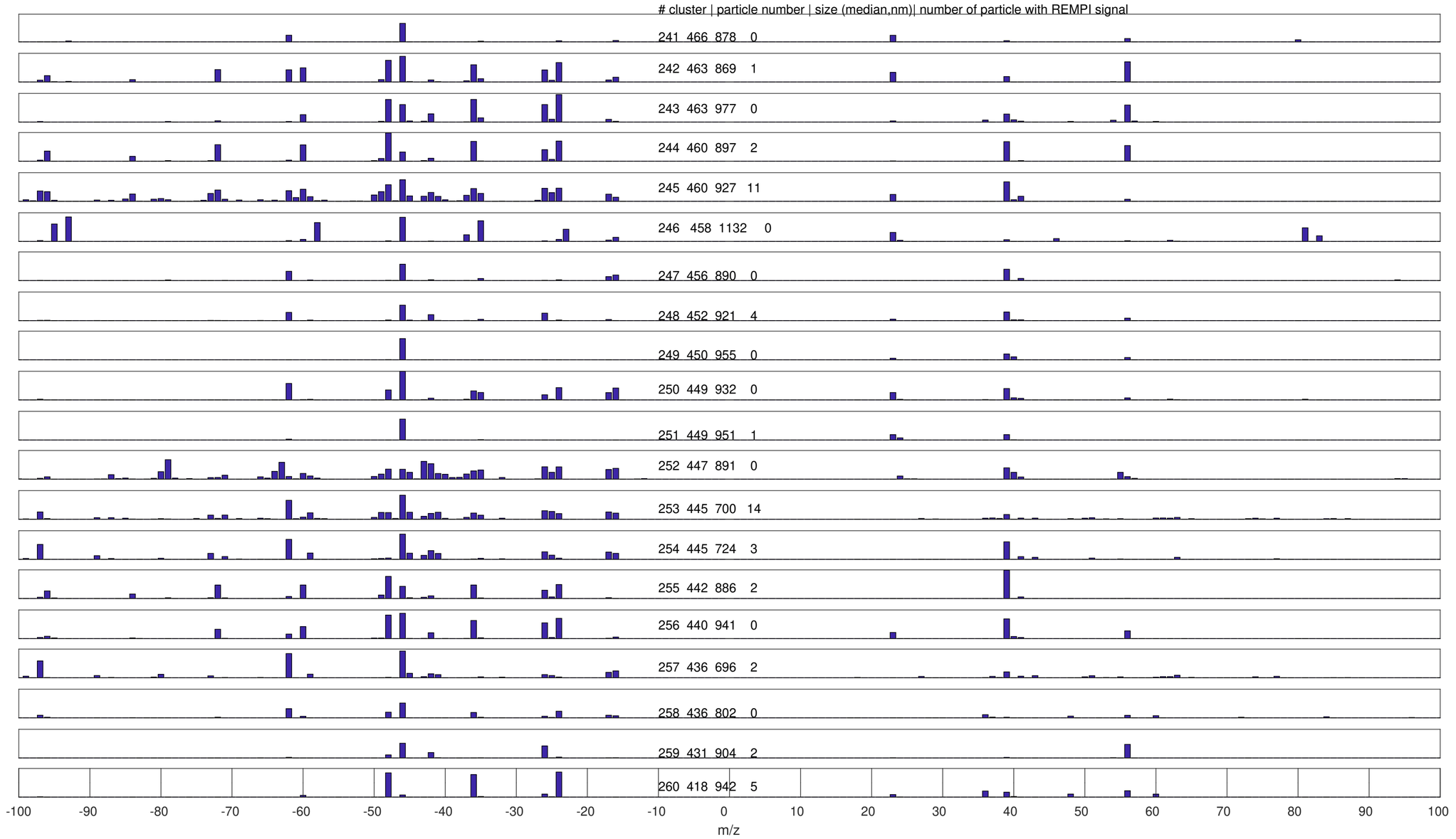

cluster | particle number | size (median,nm)| number of particle with REMPI signal
141 707 945 4
142 705 971 0
143 705 975 0
144 698 956 0
145 696 903 0
146 695 956 0
147 695 745 0
148 683 960 6
149 681 764 45
150 681 895 4
151 674 771 0
152 658 836 0
153 658 972 2
154 657 964 44
155 655 939 3
156 654 796 0
157 653 916 12
158 651 763 0
159 648 968 0
160 647 923 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

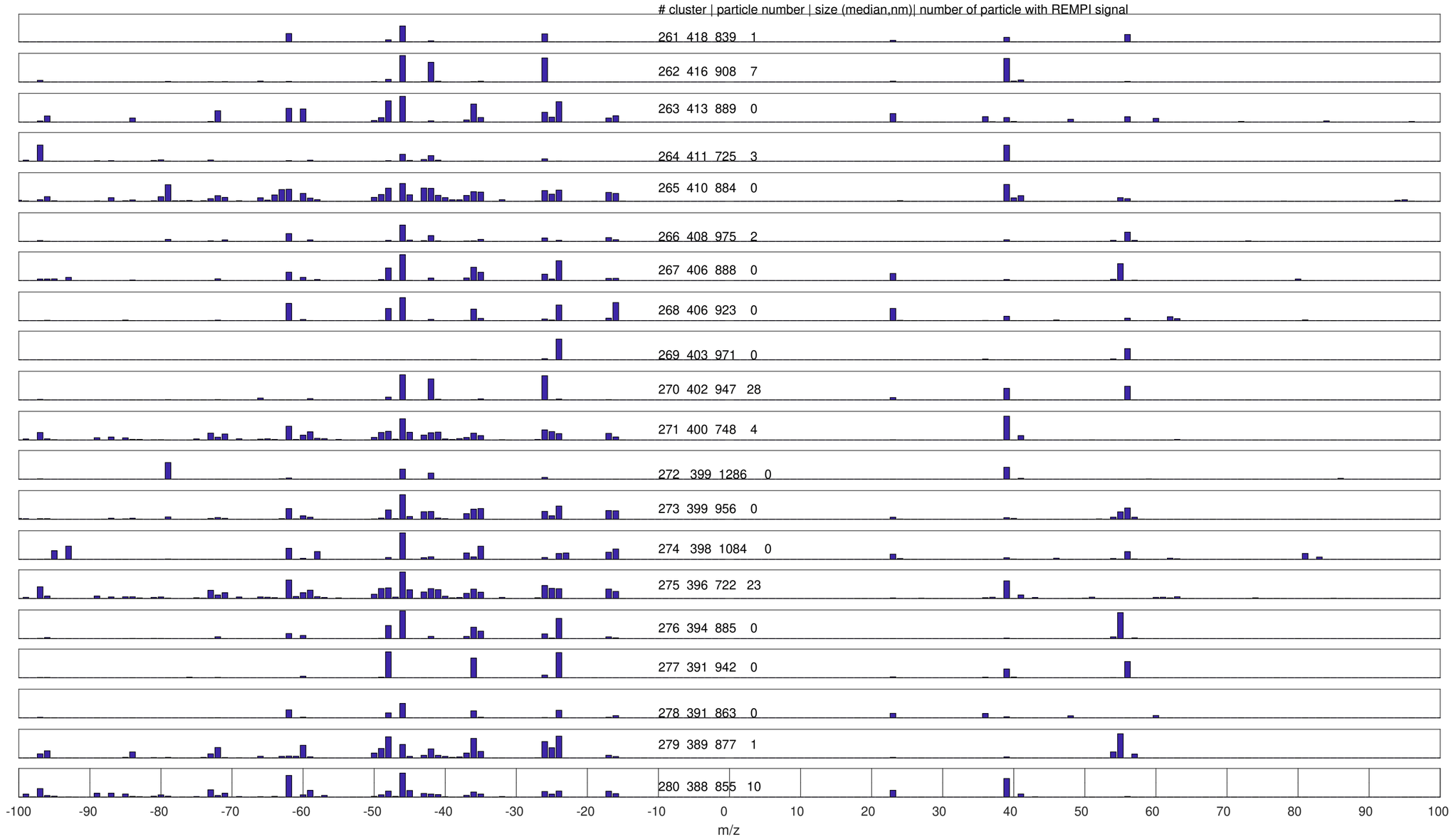

cluster | particle number | size (median,nm)| number of particle with REMPI signal
161 646 825 1
162 645 921 1
163 640 1021 0
164 639 984 9
165 638 964 9
166 636 939 311
167 634 1065 0
168 633 814 0
169 632 960 0
170 631 750 1
171 629 1073 0
172 627 934 2
173 623 936 0
174 621 916 2
175 620 959 8
176 617 924 10
177 612 691 2
178 612 805 17
179 610 970 26
180 609 963 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

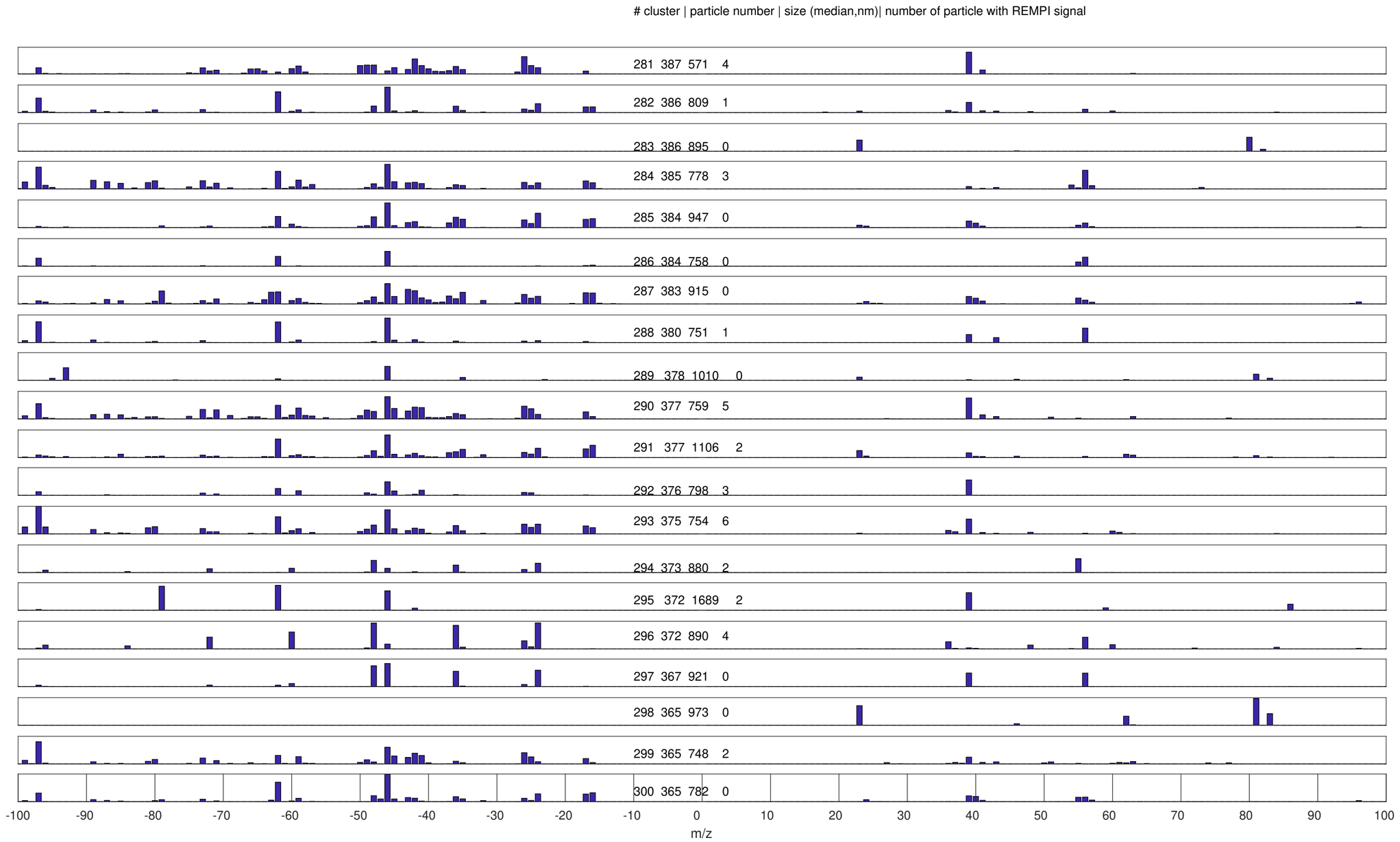

181 609 969 6
182 608 794 0
183 608 821 0
184 605 920 0
185 603 888 0
186 603 784 0
187 602 782 0
188 599 881 0
189 599 776 0
190 598 754 0
191 597 781 0
192 594 754 0
193 594 808 0
194 593 754 1
195 592 740 0
196 592 947 0
197 588 812 85
198 575 966 3
199 569 881 0
200 568 776 3
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z


cluster | particle number | size (median,nm)| number of particle with REMPI signal
201 566 879 0
202 565 753 2
203 563 786 1
204 562 740 0
205 561 749 4
206 559 809 4
207 558 770 0
208 557 901 0
209 557 940 0
210 556 945 0
211 545 886 0
212 541 889 3
213 535 884 0
214 535 932 0
215 534 965 0
216 533 873 0
217 532 956 1
218 528 752 0
219 525 980 3
220 525 653 90
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

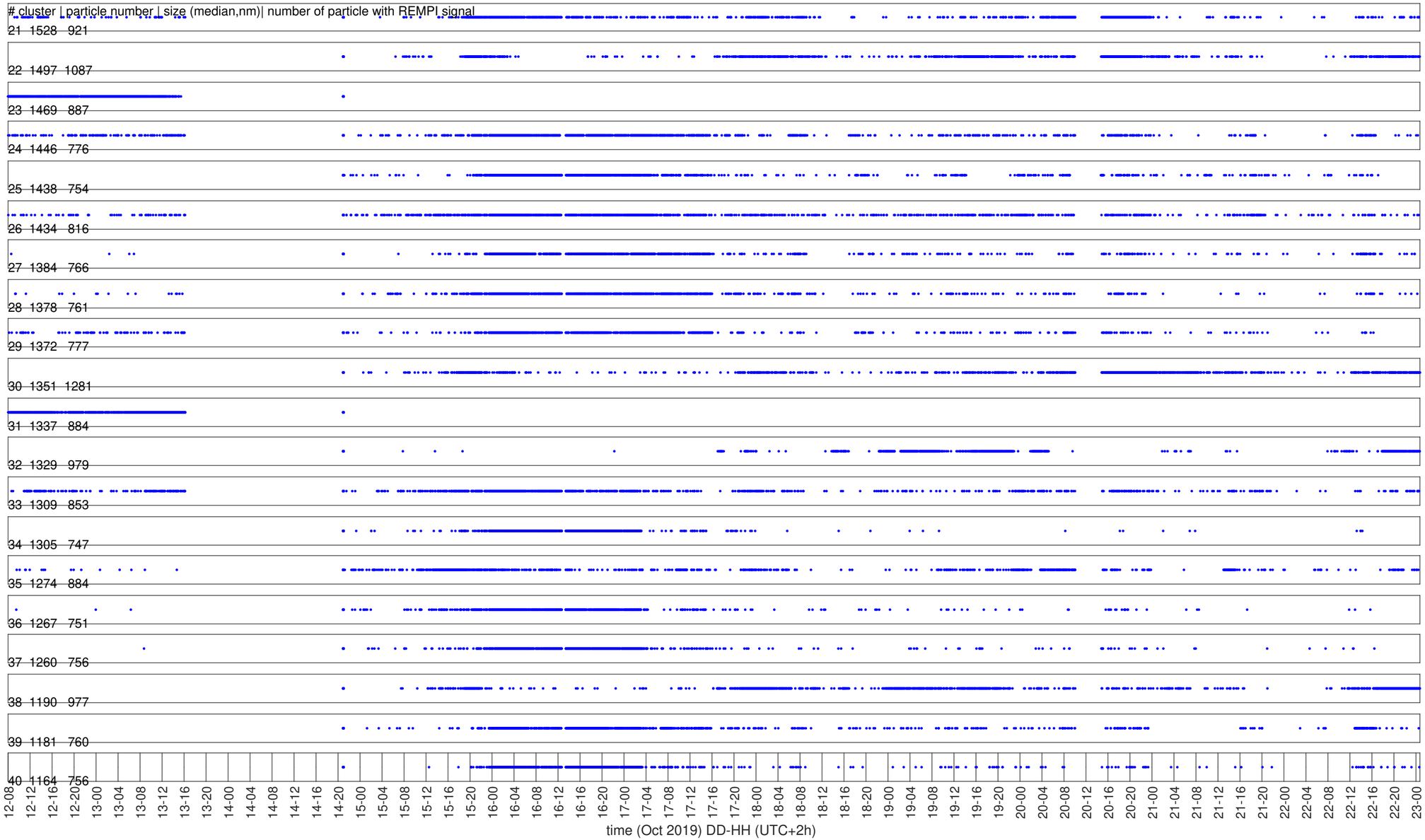

cluster | particle number | size (median,nm)| number of particle with REMPI signal
221 525 1001 1
222 523 900 0
223 520 939 0
224 520 772 0
225 519 898 0
226 511 917 0
227 511 1091 0
228 511 882 1
229 510 825 6
230 505 758 0
231 504 899 159
232 501 888 22
233 495 885 2
234 493 750 1
235 484 905 6
236 483 899 1
237 478 900 4
238 477 889 0
239 471 799 1
240 467 750 5
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

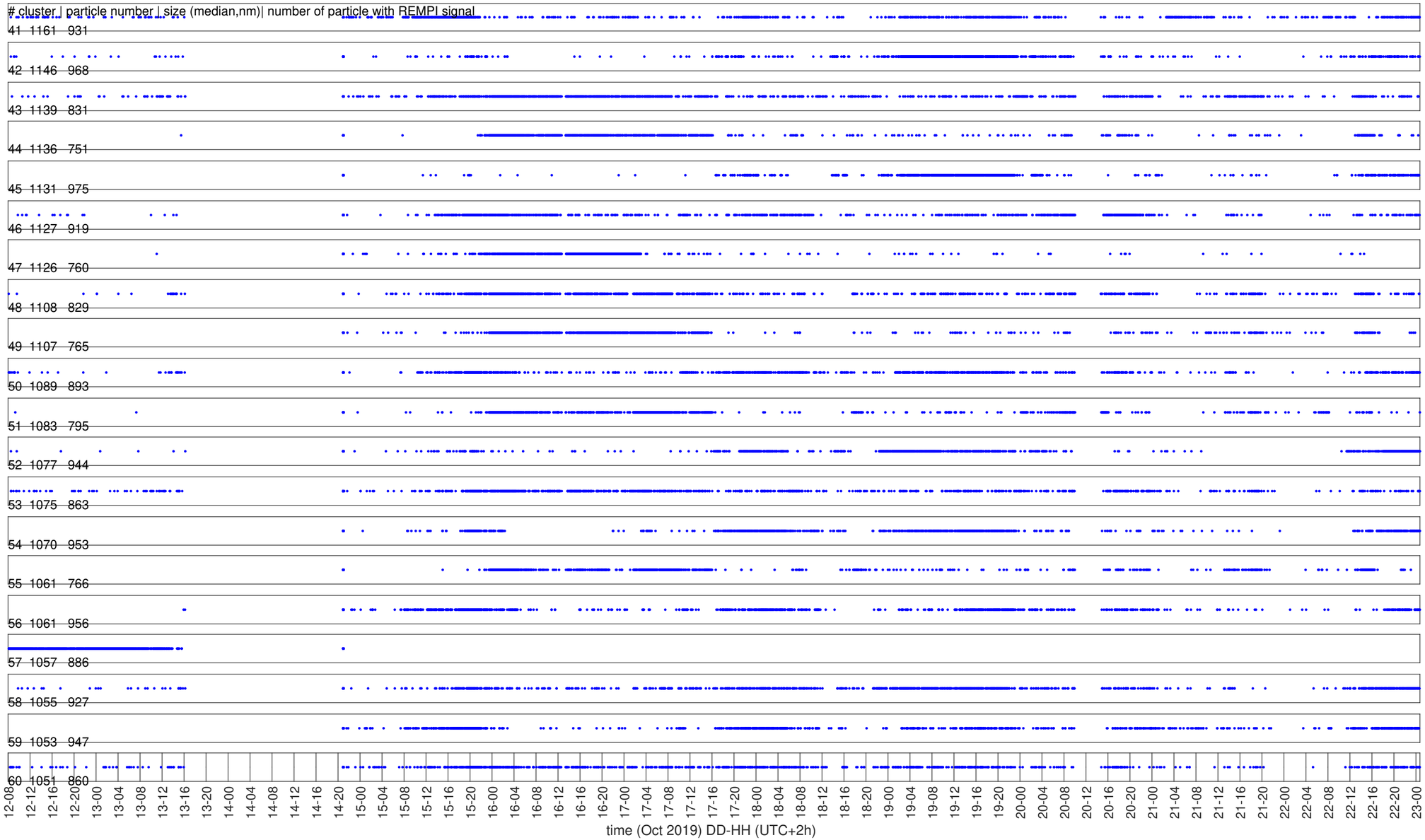

cluster | particle number | size (median,nm)| number of particle with REMPI signal
241 466 878 0
242 463 869 1
243 463 977 0
244 460 897 2
245 460 927 11
246 458 1132 0
247 456 890 0
248 452 921 4
249 450 955 0
250 449 932 0
251 449 951 1
252 447 891 0
253 445 700 14
254 445 724 3
255 442 886 2
256 440 941 0
257 436 696 2
258 436 802 0
259 431 904 2
260 418 942 5
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

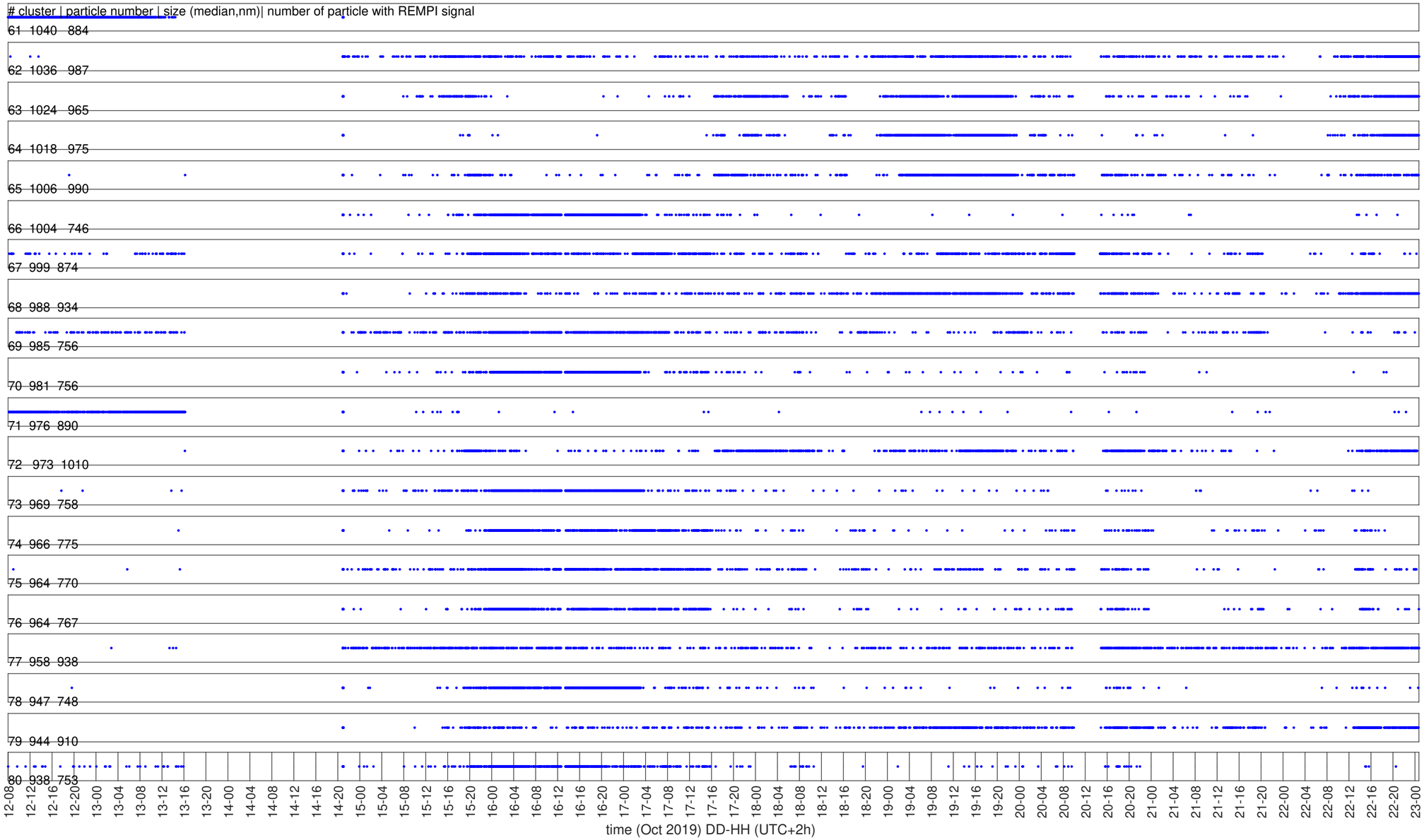

cluster | particle number | size (median,nm)| number of particle with REMPI signal
261 418 839 1
262 416 908 7
263 413 889 0
264 411 725 3
265 410 884 0
266 408 975 2
267 406 888 0
268 406 923 0
269 403 971 0
270 402 947 28
271 400 748 4
272 399 1286 0
273 399 956 0
274 398 1084 0
275 396 722 23
276 394 885 0
277 391 942 0
278 391 863 0
279 389 877 1
280 388 855 10
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

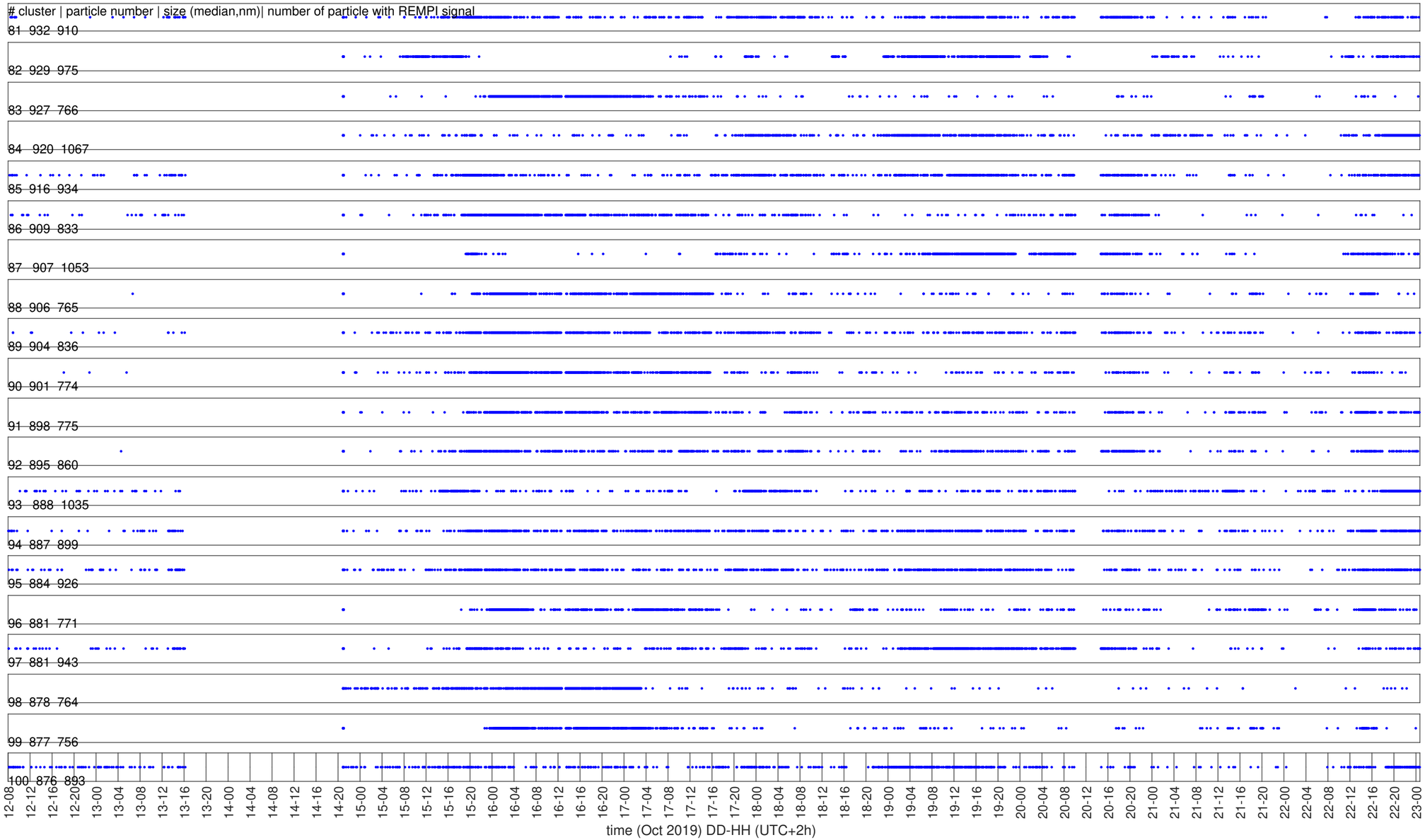

cluster | particle number | size (median,nm)| number of particle with REMPI signal
281 387 571 4
282 386 809 1
283 386 895 0
284 385 778 3
285 384 947 0
286 384 758 0
287 383 915 0
288 380 751 1
289 378 1010 0
290 377 759 5
291 377 1106 2
292 376 798 3
293 375 754 6
294 373 880 2
295 372 1689 2
296 372 890 4
297 367 921 0
298 365 973 0
299 365 748 2
300 365 782 0
-100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
m/z

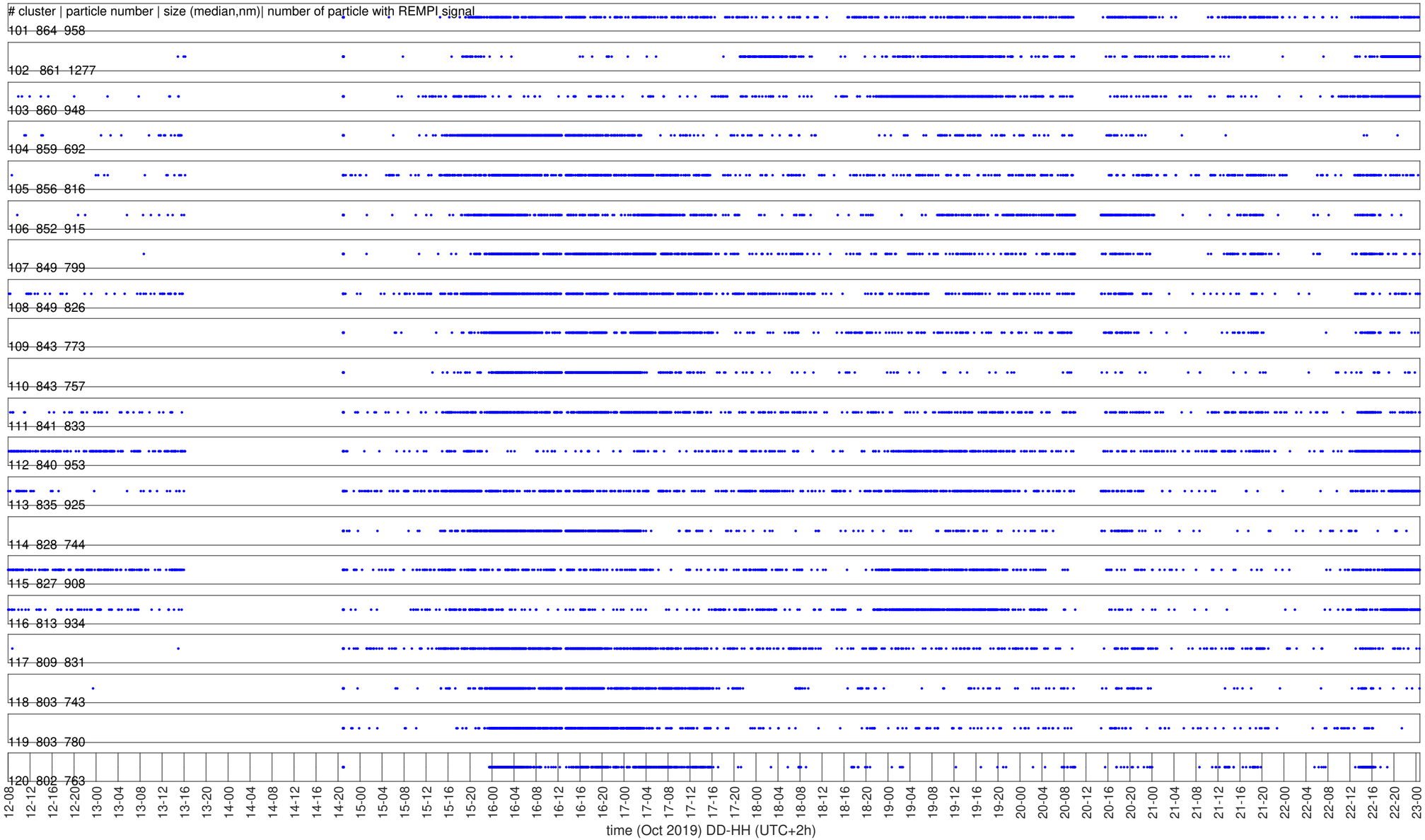

cluster | particle number | size (median,nm)| number of particle with REMPI signal
1 6009 990
2 4576 746
3 4382 967
4 3920 738
5 3120 969
6 2705 980
7 2649 939
8 2619 886
9 2417 886
10 2410 776
11 2288 750
12 2155 775
13 1993 886
14 1979 760
15 1867 998
16 1845 788
17 1658 884
18 1622 935
19 1598 754
20 1565 975
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

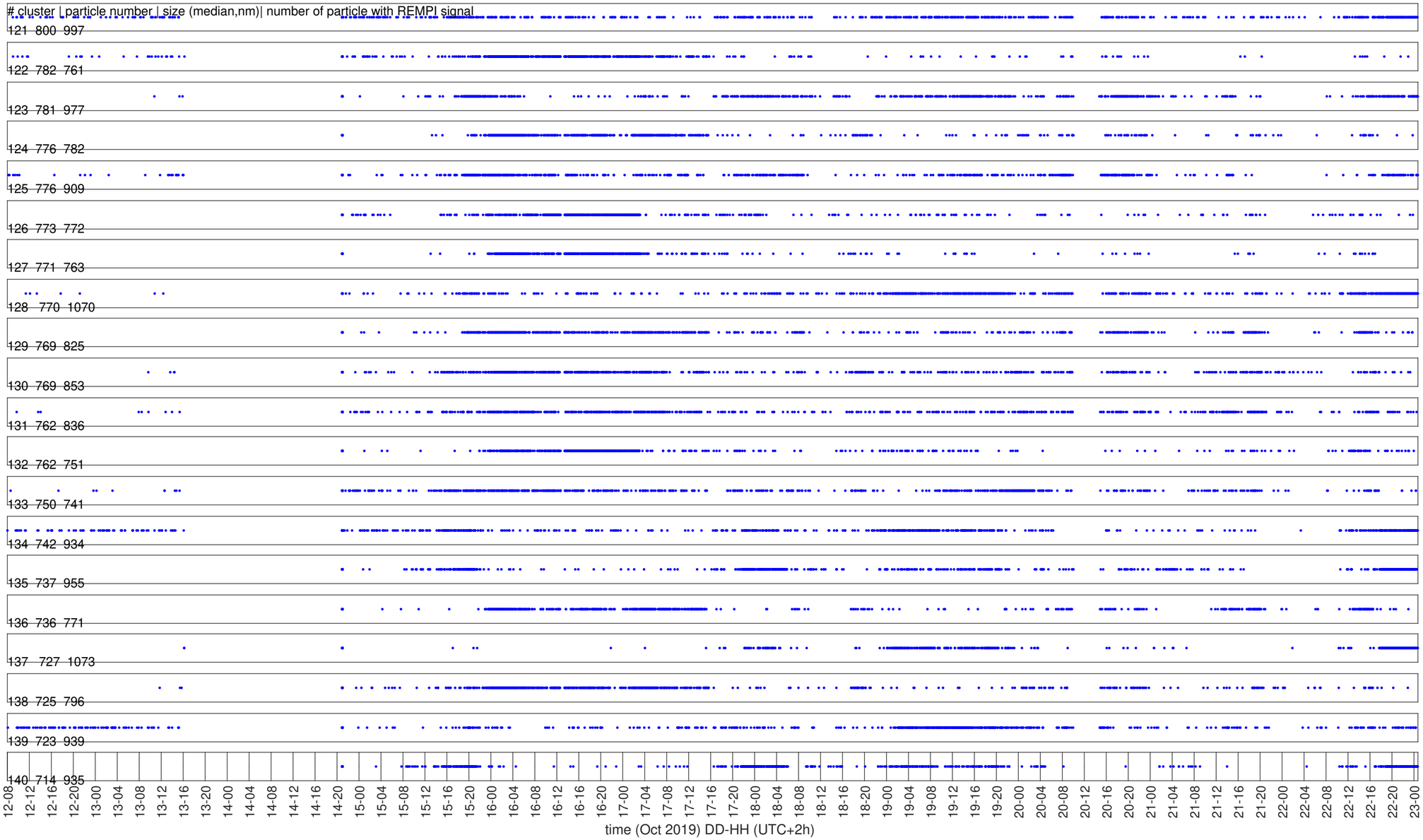

cluster | particle number | size (median,nm)| number of particle with REMPI signal
21 1528 921
22 1497 1087
23 1469 887
24 1446 776
25 1438 754
26 1434 816
27 1384 766
28 1378 761
29 1372 777
30 1351 1281
31 1337 884
32 1329 979
33 1309 853
34 1305 747
35 1274 884
36 1267 751
37 1260 756
38 1190 977
39 1181 760
40 1164 756
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

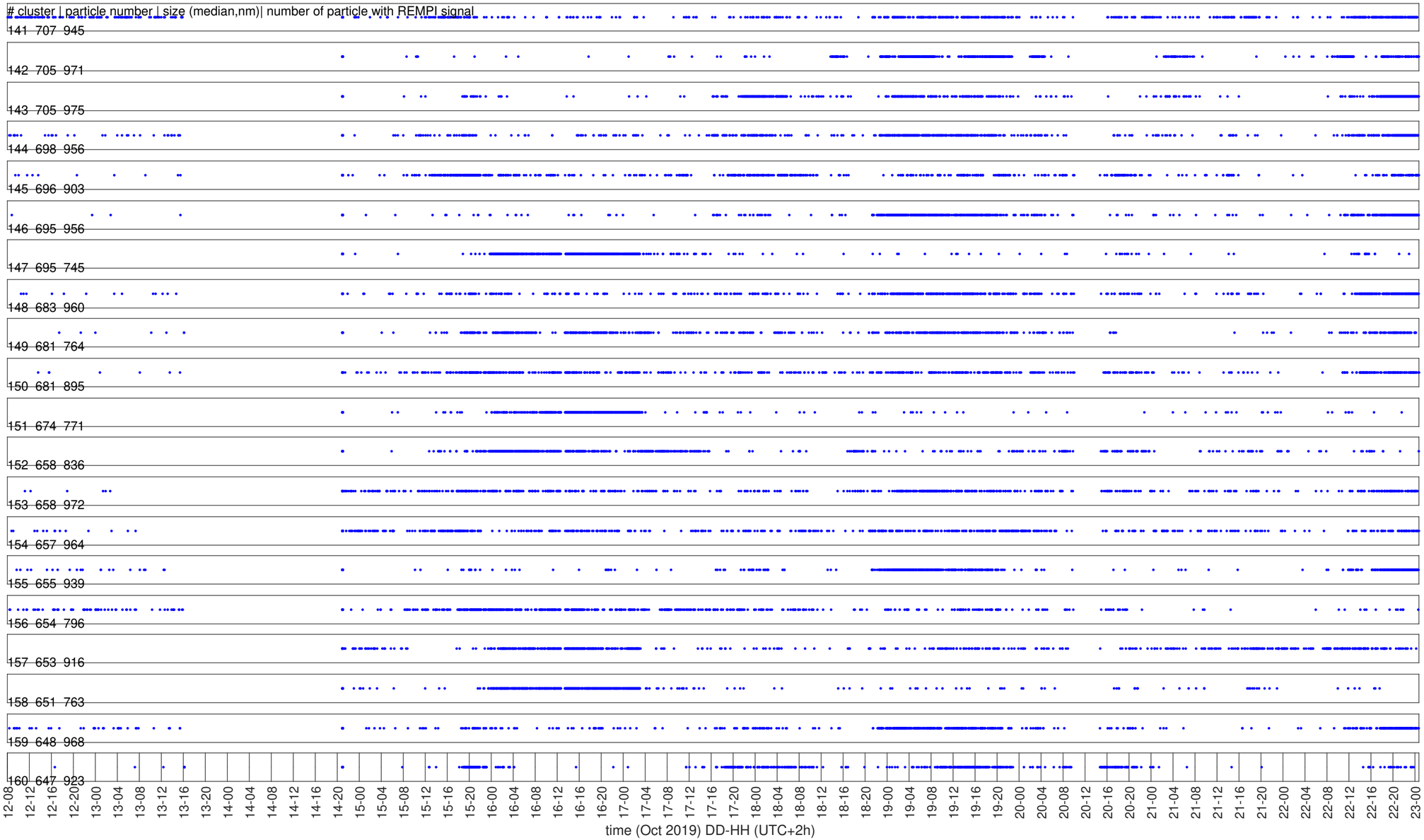

cluster | particle number | size (median,nm)| number of particle with REMPI signal
41 1161 931
42 1146 968
43 1139 831
44 1136 751
45 1131 975
46 1127 919
47 1126 760
48 1108 829
49 1107 765
50 1089 893
51 1083 795
52 1077 944
53 1075 863
54 1070 953
55 1061 766
56 1061 956
57 1057 886
58 1055 927
59 1053 947
60 1051 860
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

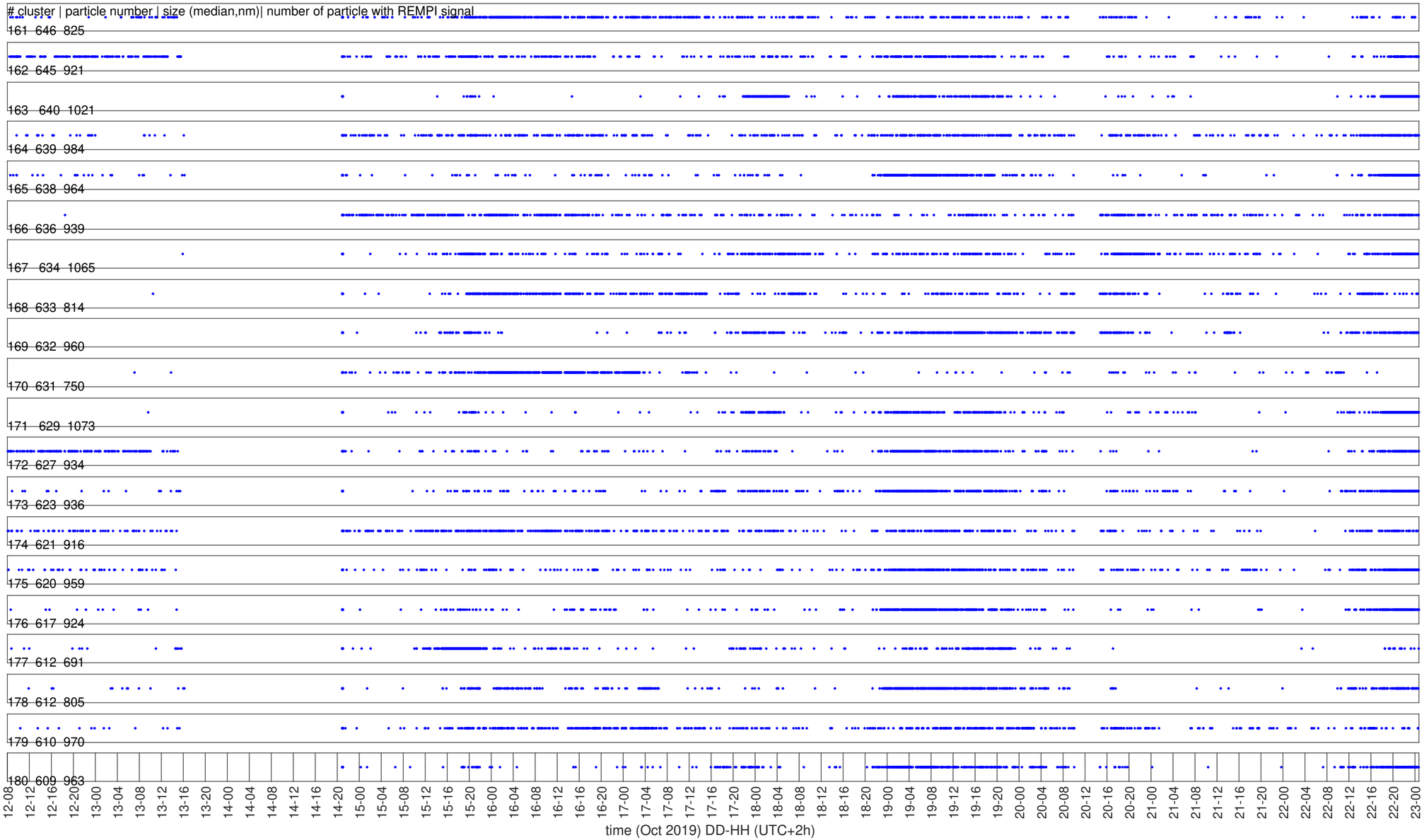

cluster | particle number | size (median,nm)| number of particle with REMPI signal
61 1040 884
62 1036 987
63 1024 965
64 1018 975
65 1006 990
66 1004 746
67 999 874
68 988 934
69 985 756
70 981 756
71 976 890
72 973 1010
73 969 758
74 966 775
75 964 770
76 964 767
77 958 938
78 947 748
79 944 910
80 938 753
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

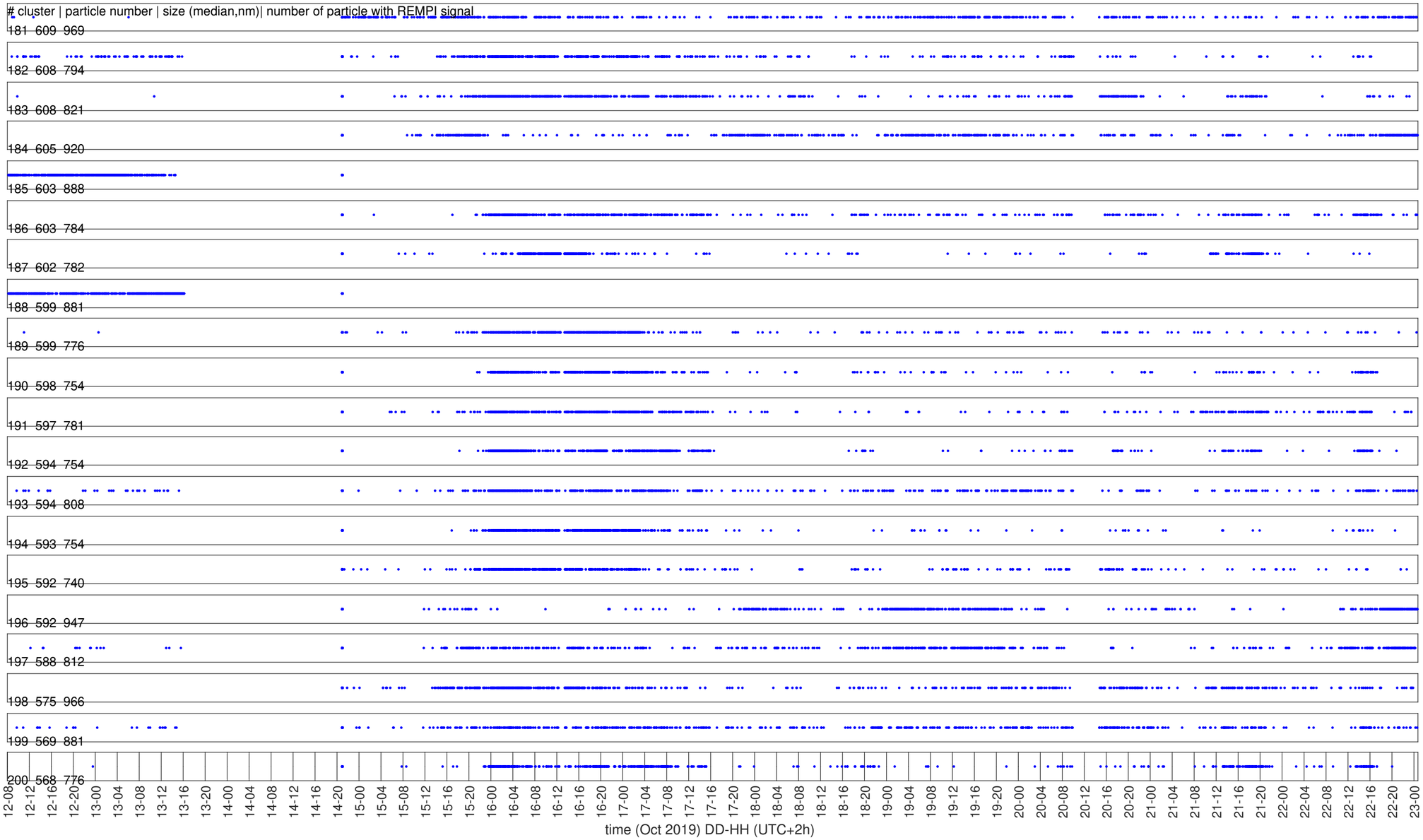

cluster | particle number | size (median,nm)| number of particle with REMPI signal
81 932 910
82 929 975
83 927 766
84 920 1067
85 916 934
86 909 833
87 907 1053
88 906 765
89 904 836
90 901 774
91 898 775
92 895 860
93 888 1035
94 887 899
95 884 926
96 881 771
97 881 943
98 878 764
99 877 756
100 876 893
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

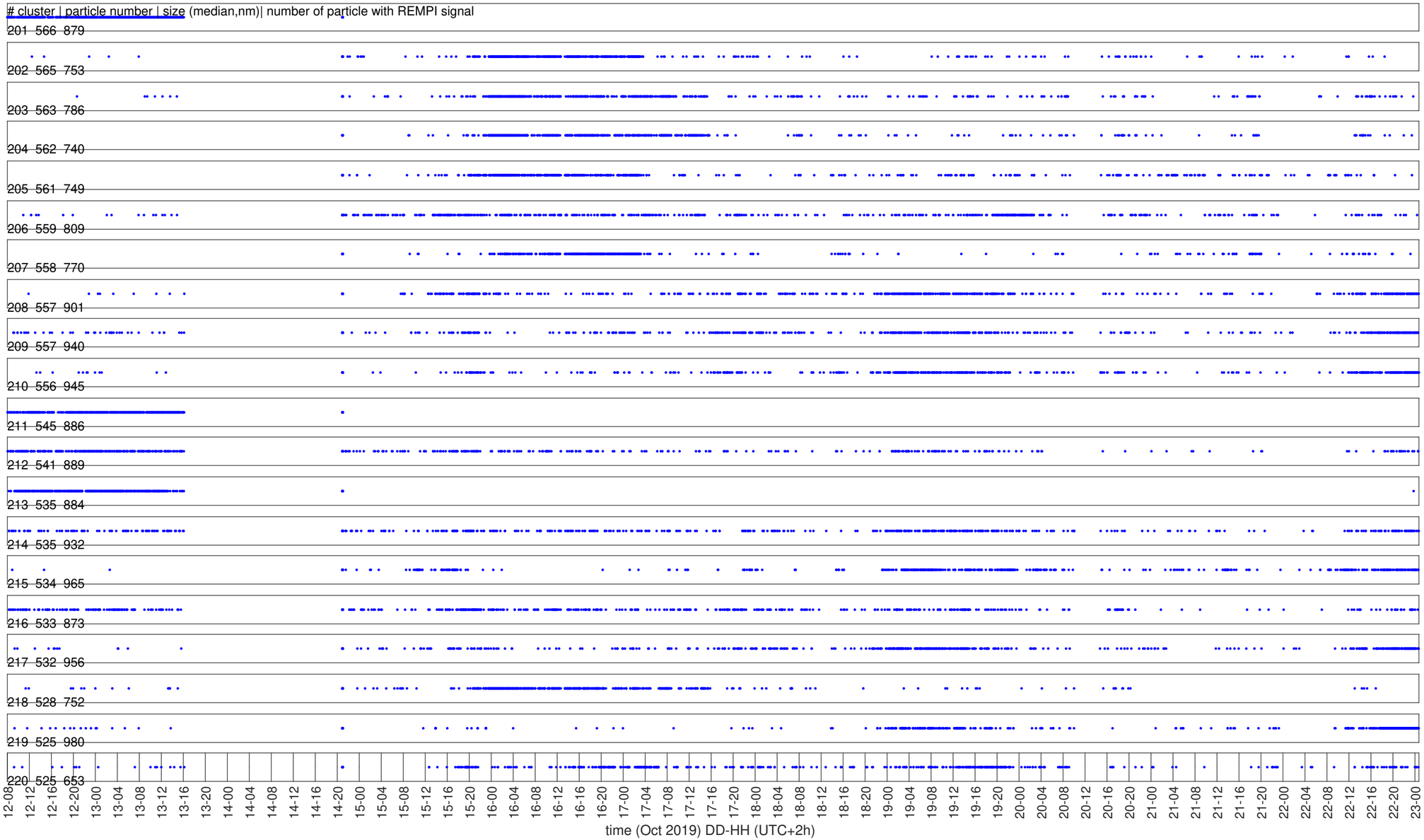

cluster | particle number | size (median,nm)| number of particle with REMPI signal
101 864 958
102 861 1277
103 860 948
104 859 692
105 856 816
106 852 915
107 849 799
108 849 826
109 843 773
110 843 757
111 841 833
112 840 953
113 835 925
114 828 744
115 827 908
116 813 934
117 809 831
118 803 743
119 803 780
120 802 763
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

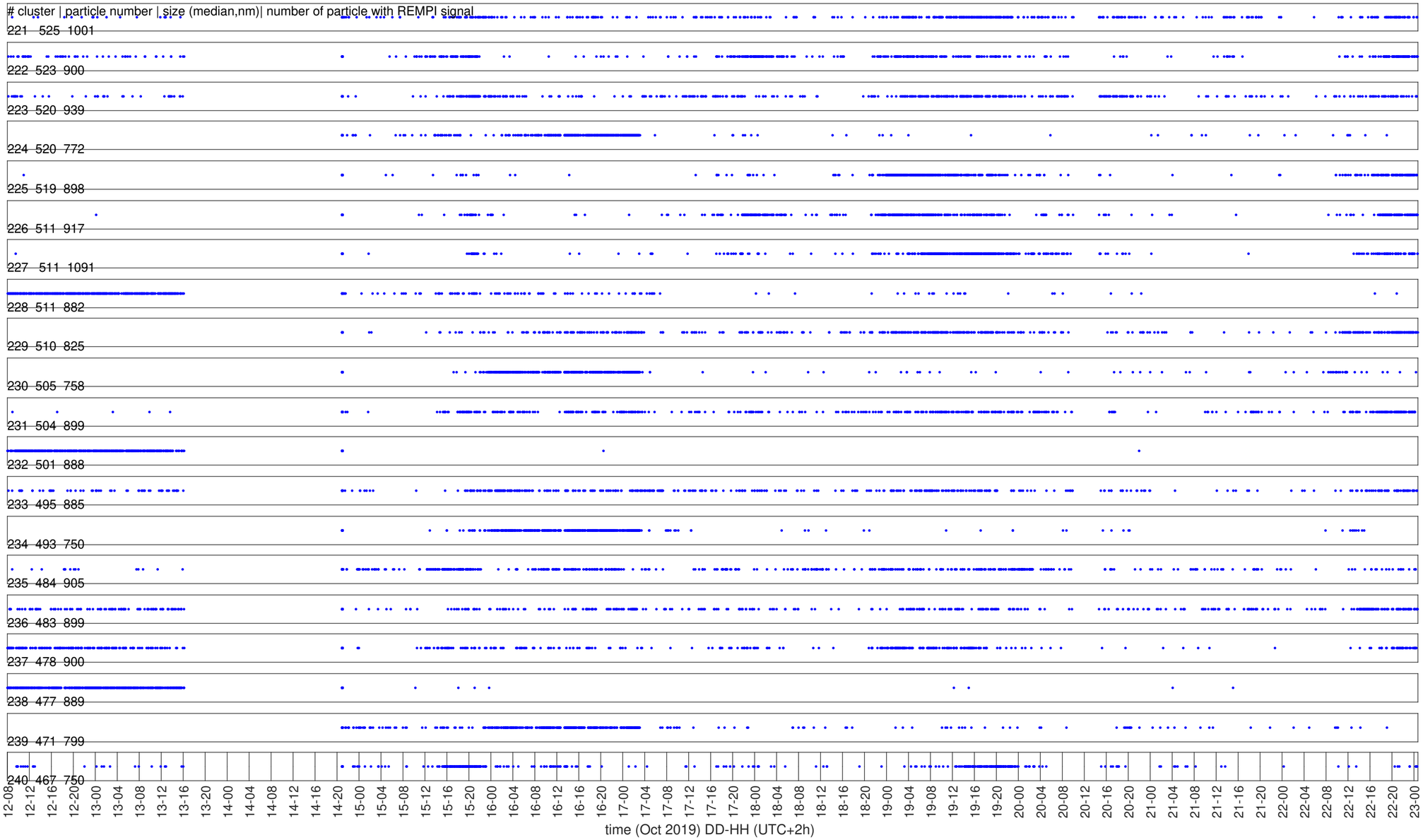

cluster | particle number | size (median,nm)| number of particle with REMPI signal
121 800 997
122 782 761
123 781 977
124 776 782
125 776 909
126 773 772
127 771 763
128 770 1070
129 769 825
130 769 853
131 762 836
132 762 751
133 750 741
134 742 934
135 737 955
136 736 771
137 727 1073
138 725 796
139 723 939
140 714 935
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

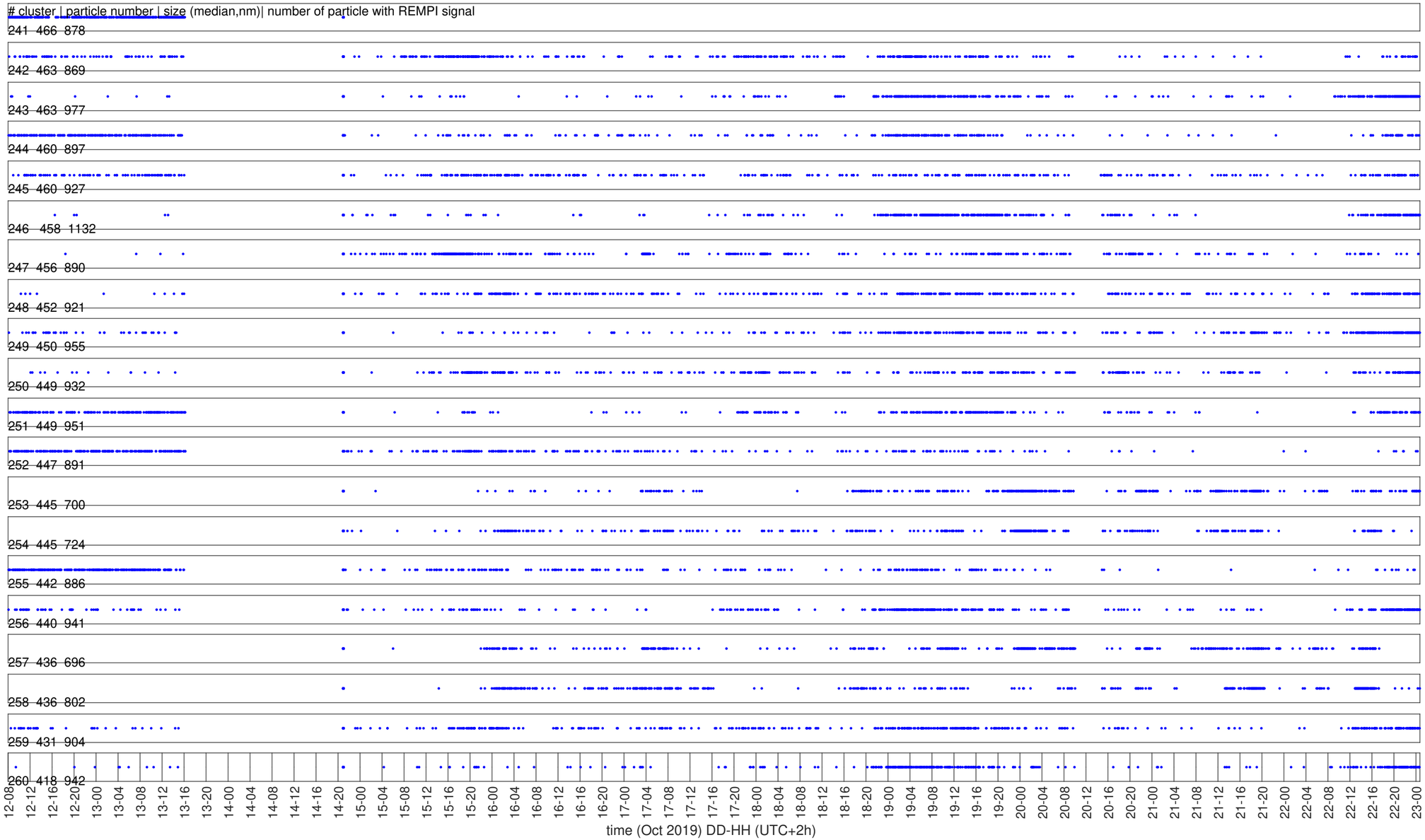

cluster | particle number | size (median,nm)| number of particle with REMPI signal
141 707 945
142 705 971
143 705 975
144 698 956
145 696 903
146 695 956
147 695 745
148 683 960
149 681 764
150 681 895
151 674 771
152 658 836
153 658 972
154 657 964
155 655 939
156 654 796
157 653 916
158 651 763
159 648 968
160 647 923
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

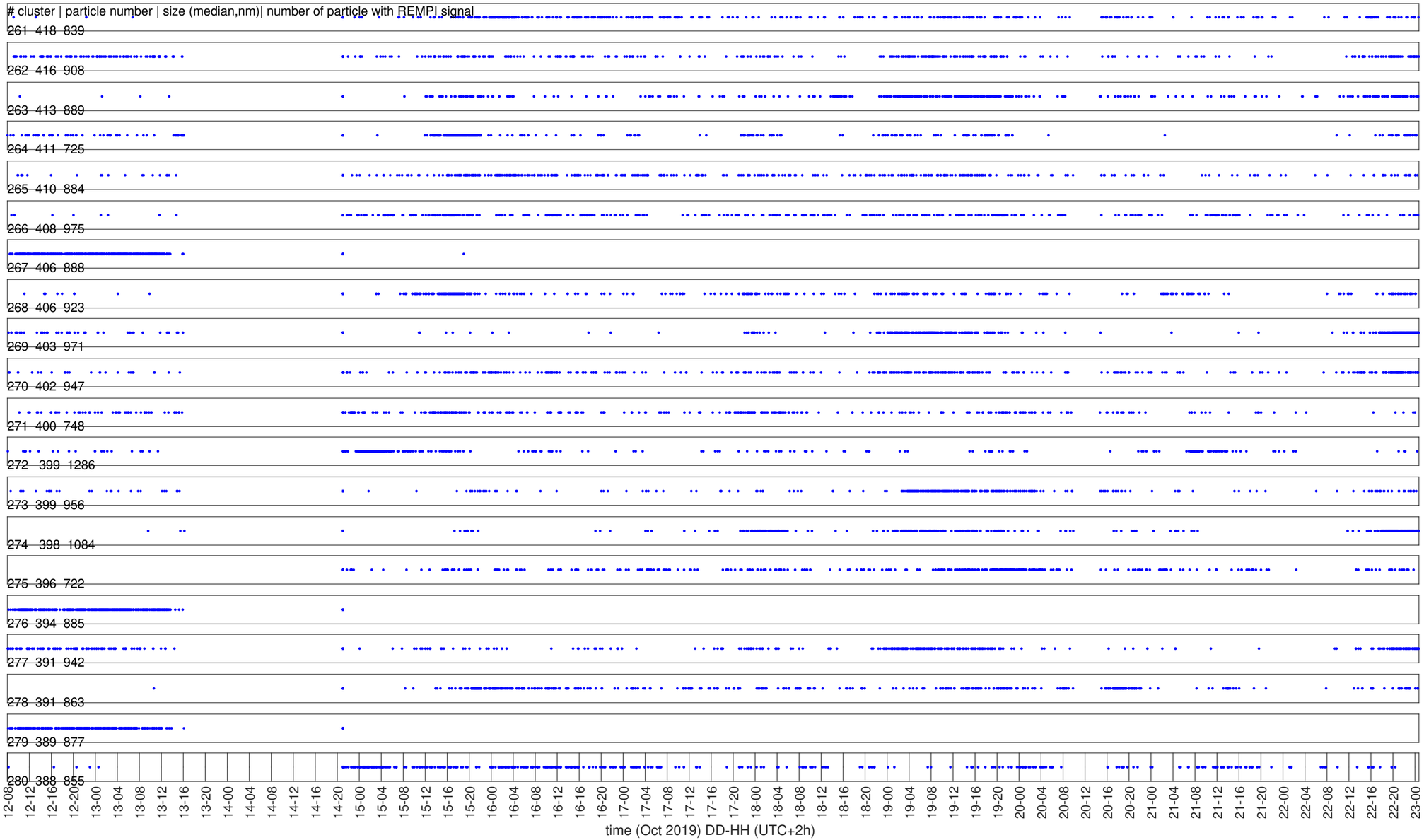

cluster | particle number | size (median,nm)| number of particle with REMPI signal
161 646 825
162 645 921
163 640 1021
164 639 984
165 638 964
166 636 939
167 634 1065
168 633 814
169 632 960
170 631 750
171 629 1073
172 627 934
173 623 936
174 621 916
175 620 959
176 617 924
177 612 691
178 612 805
179 610 970
180 609 963
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)| number of particle with REMPI signal
181 609 969
182 608 794
183 608 821
184 605 920
185 603 888
186 603 784
187 602 782
188 599 881
189 599 776
190 598 754
191 597 781
192 594 754
193 594 808
194 593 754
195 592 740
196 592 947
197 588 812
198 575 966
199 569 881
200 568 776
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)| number of particle with REMPI signal
201 566 879
202 565 753
203 563 786
204 562 740
205 561 749
206 559 809
207 558 770
208 557 901
209 557 940
210 556 945
211 545 886
212 541 889
213 535 884
214 535 932
215 534 965
216 533 873
217 532 956
218 528 752
219 525 980
220 525 653
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)| number of particle with REMPI signal
221 525 1001
222 523 900
223 520 939
224 520 772
225 519 898
226 511 917
227 511 1091
228 511 882
229 510 825
230 505 758
231 504 899
232 501 888
233 495 885
234 493 750
235 484 905
236 483 899
237 478 900
238 477 889
239 471 799
240 467 750
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)| number of particle with REMPI signal
241 466 878
242 463 869
243 463 977
244 460 897
245 460 927
246 458 1132
247 456 890
248 452 921
249 450 955
250 449 932
251 449 951
252 447 891
253 445 700
254 445 724
255 442 886
256 440 941
257 436 696
258 436 802
259 431 904
260 418 942
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)| number of particle with REMPI signal
261 418 839
262 416 908
263 413 889
264 411 725
265 410 884
266 408 975
267 406 888
268 406 923
269 403 971
270 402 947
271 400 748
272 399 1286
273 399 956
274 398 1084
275 396 722
276 394 885
277 391 942
278 391 863
279 389 877
280 388 855
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

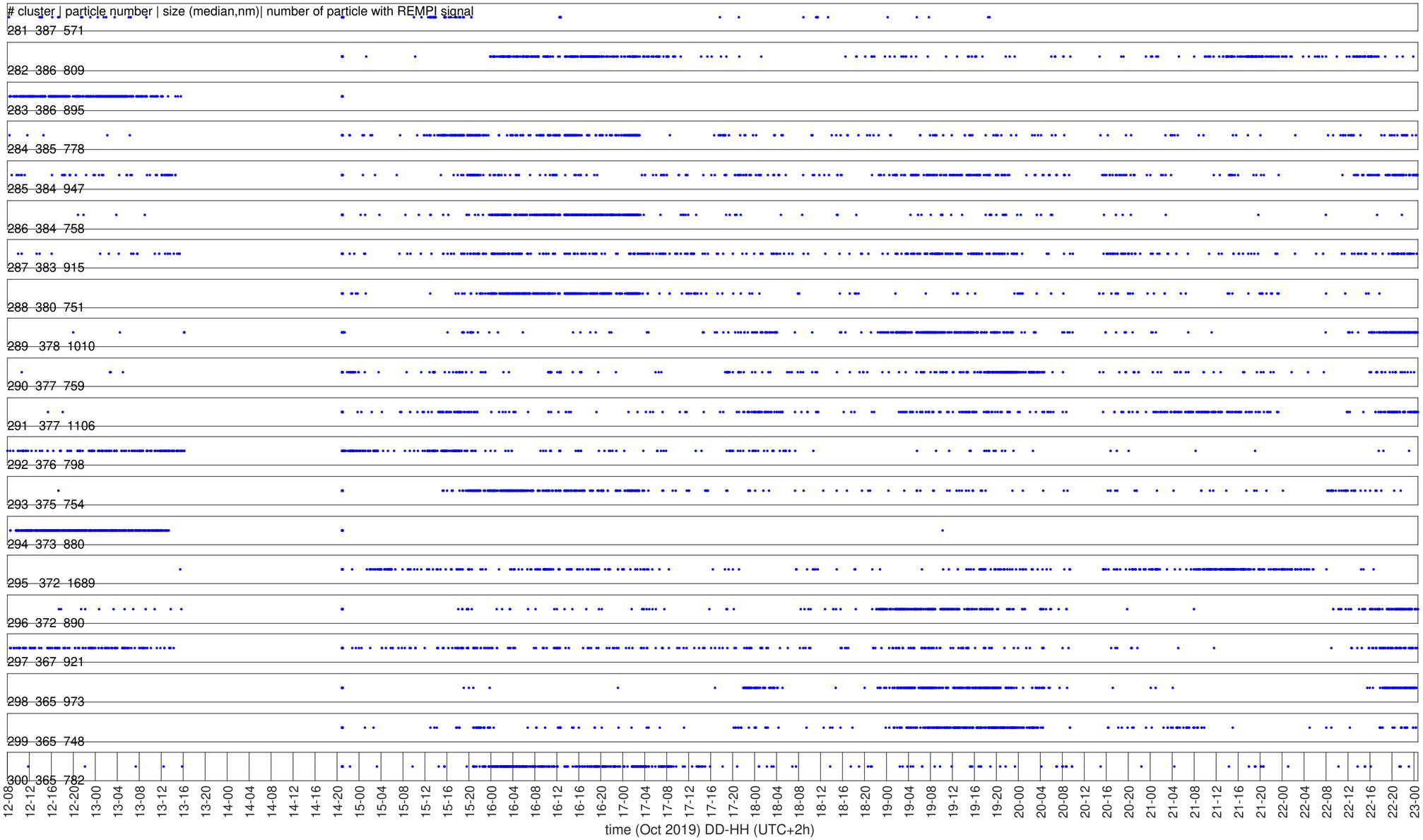
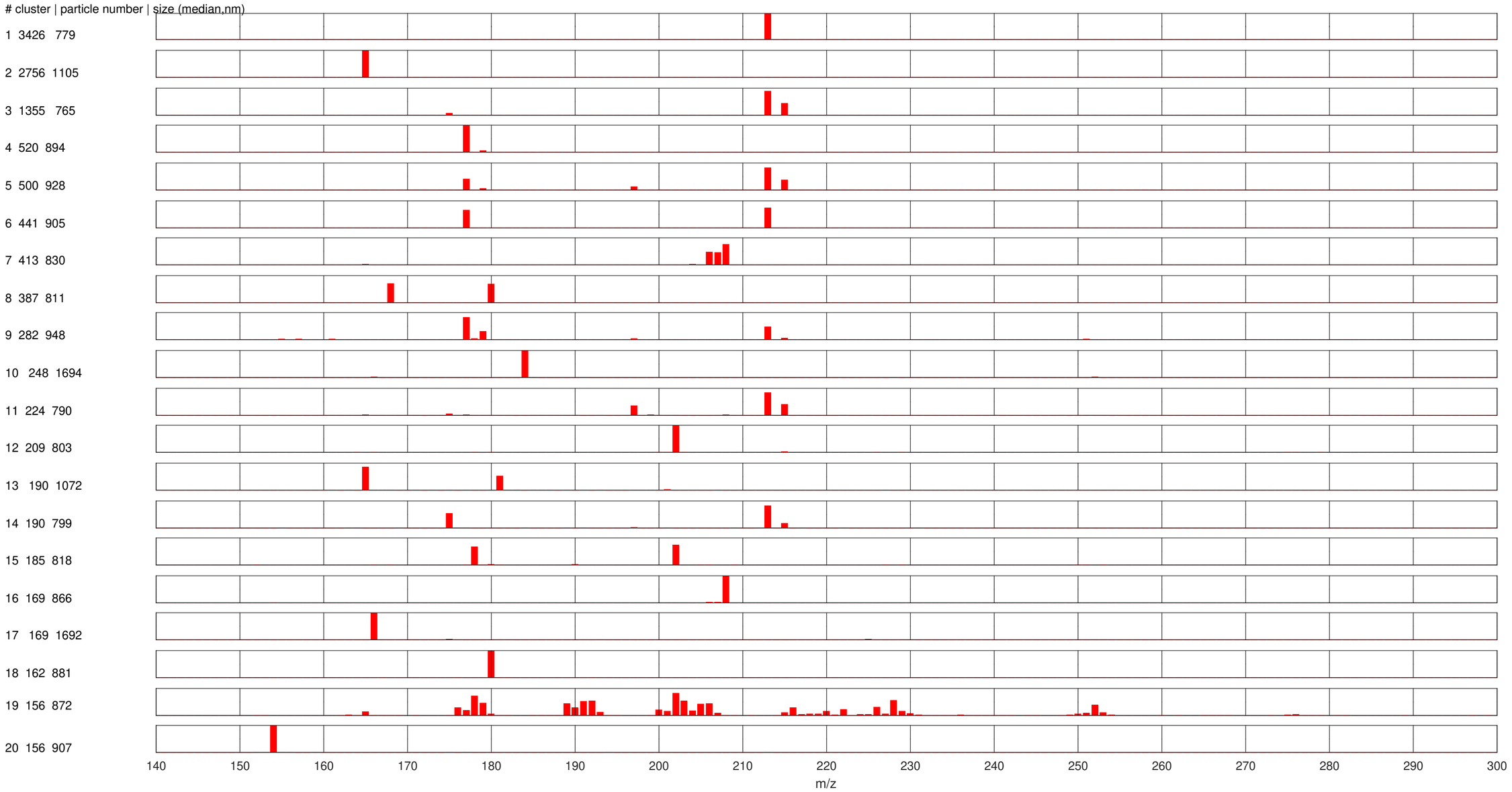
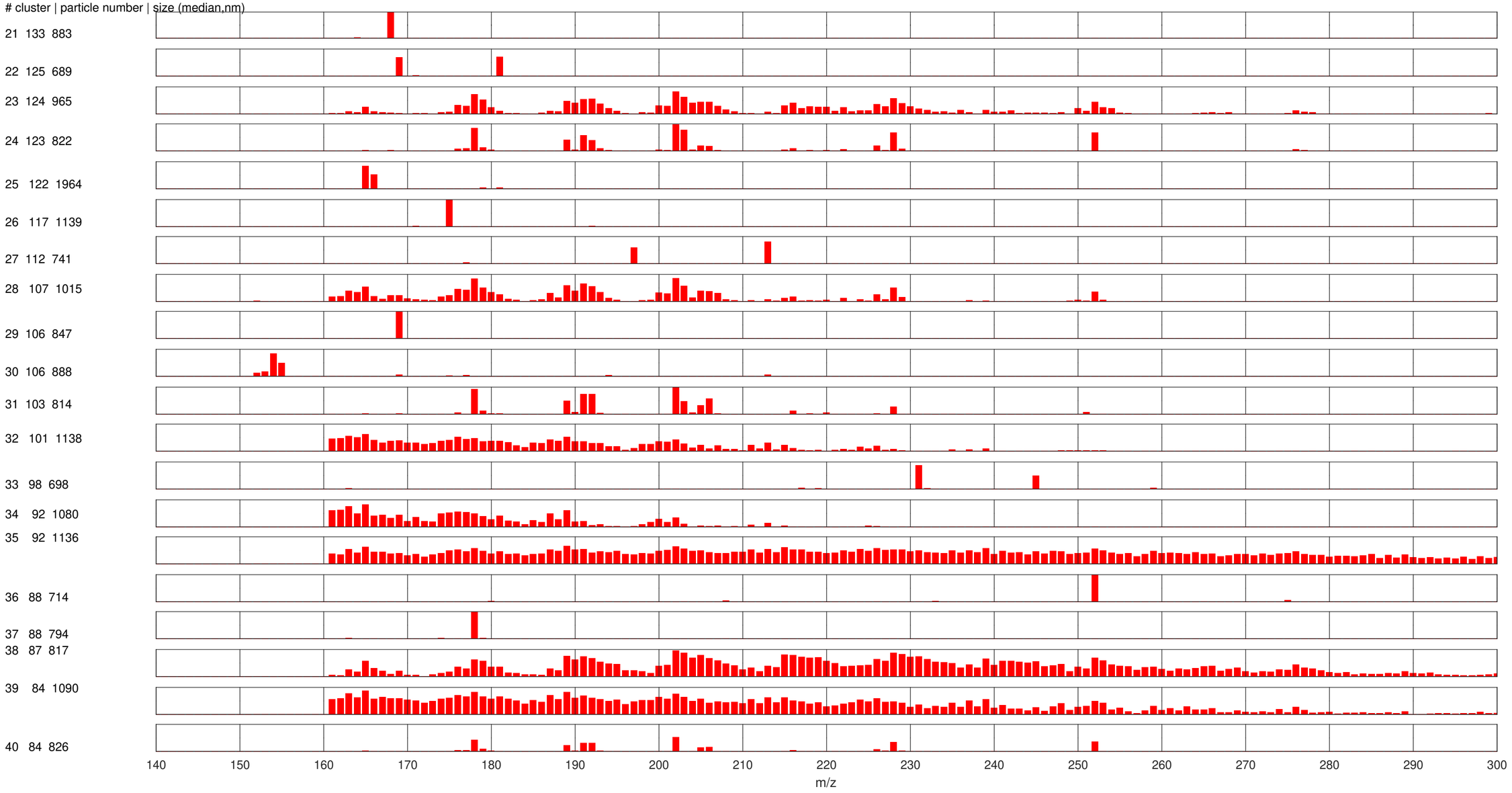
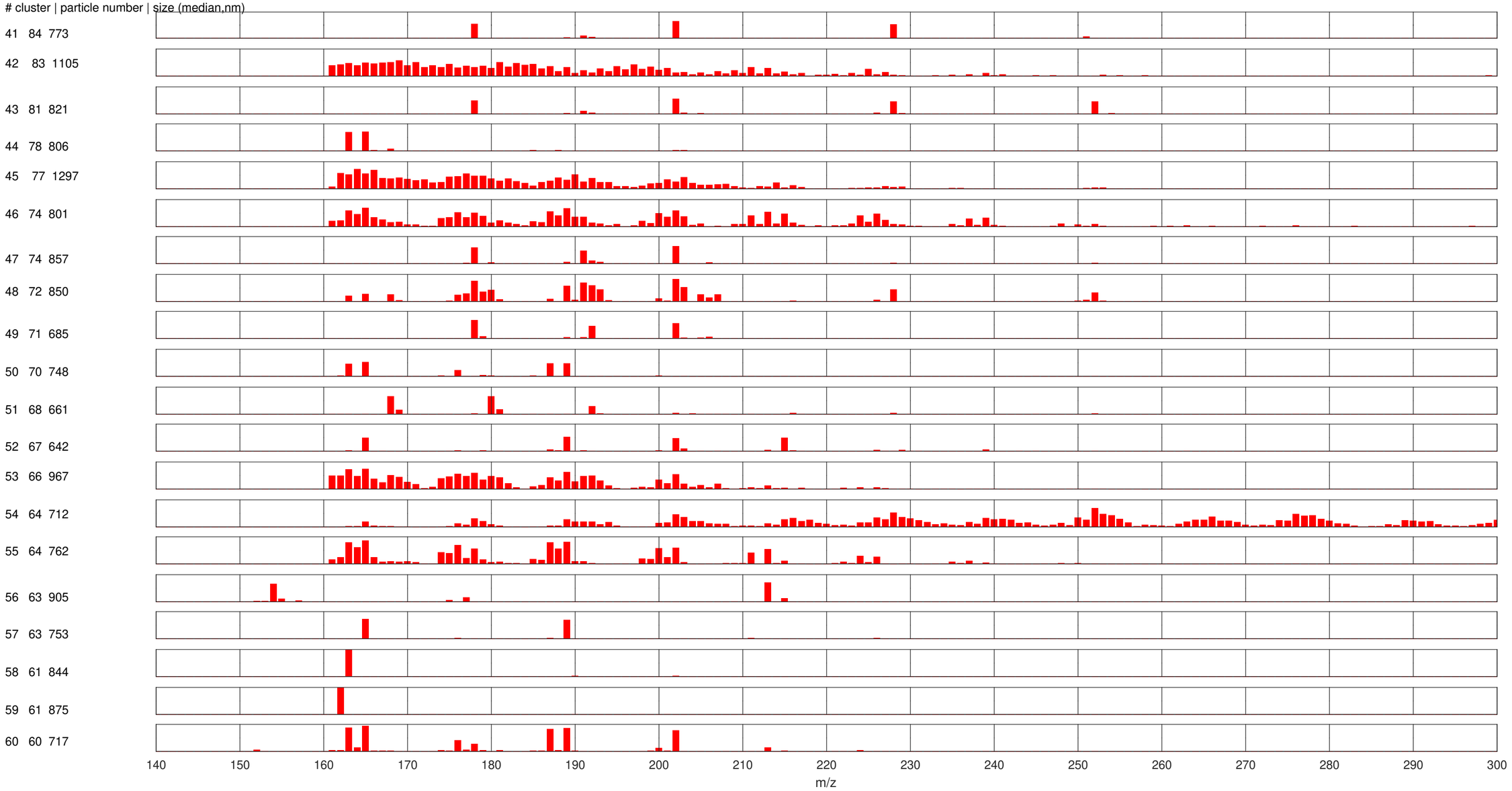
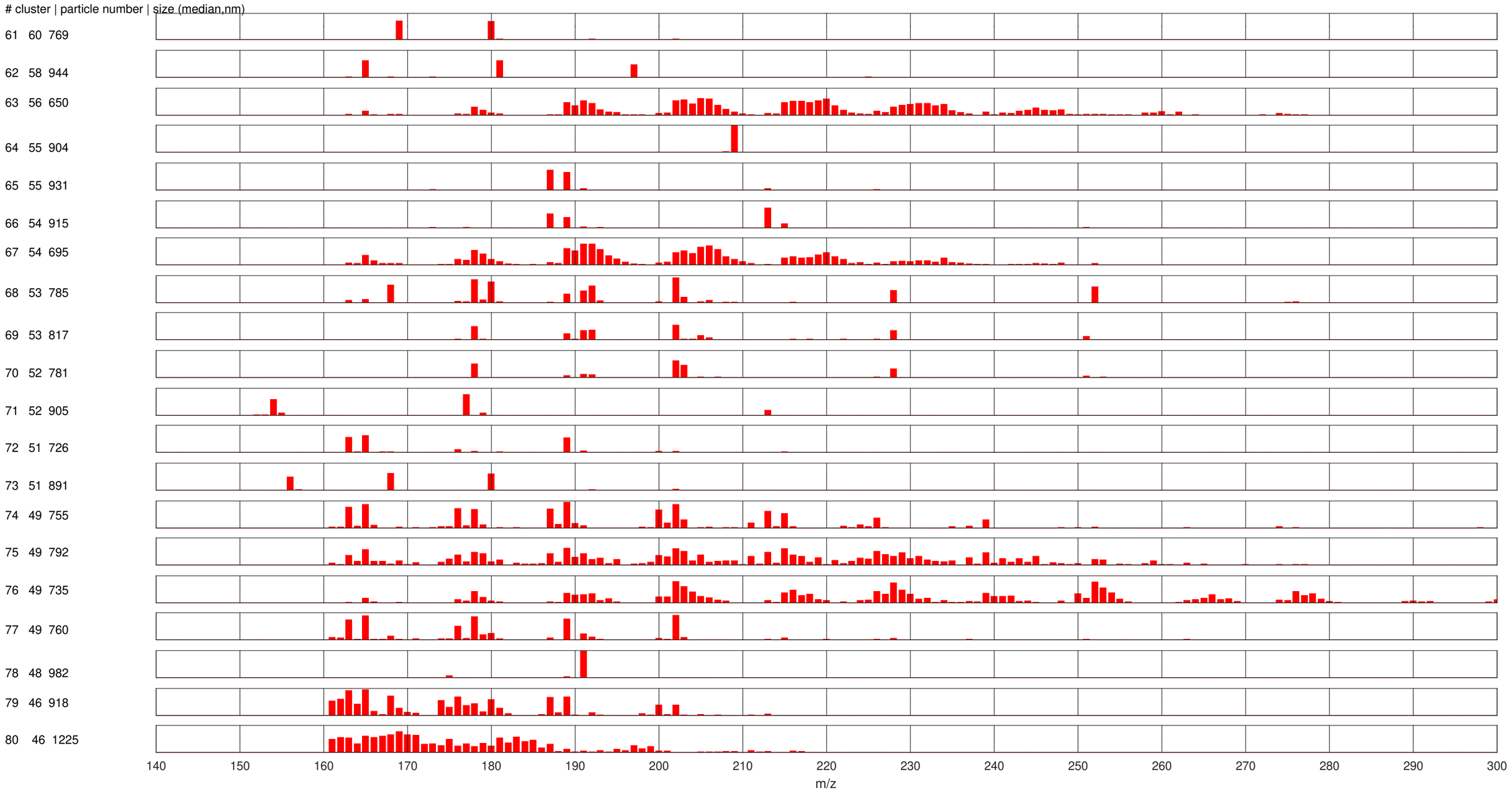

cluster | particle number | size (median,nm)| number of particle with REMPI signal
281 387 571
282 386 809
283 386 895
284 385 778
285 384 947
286 384 758
287 383 915
288 380 751
289 378 1010
290 377 759
291 377 1106
292 376 798
293 375 754
294 373 880
295 372 1689
296 372 890
297 367 921
298 365 973
299 365 748
300 365 782
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

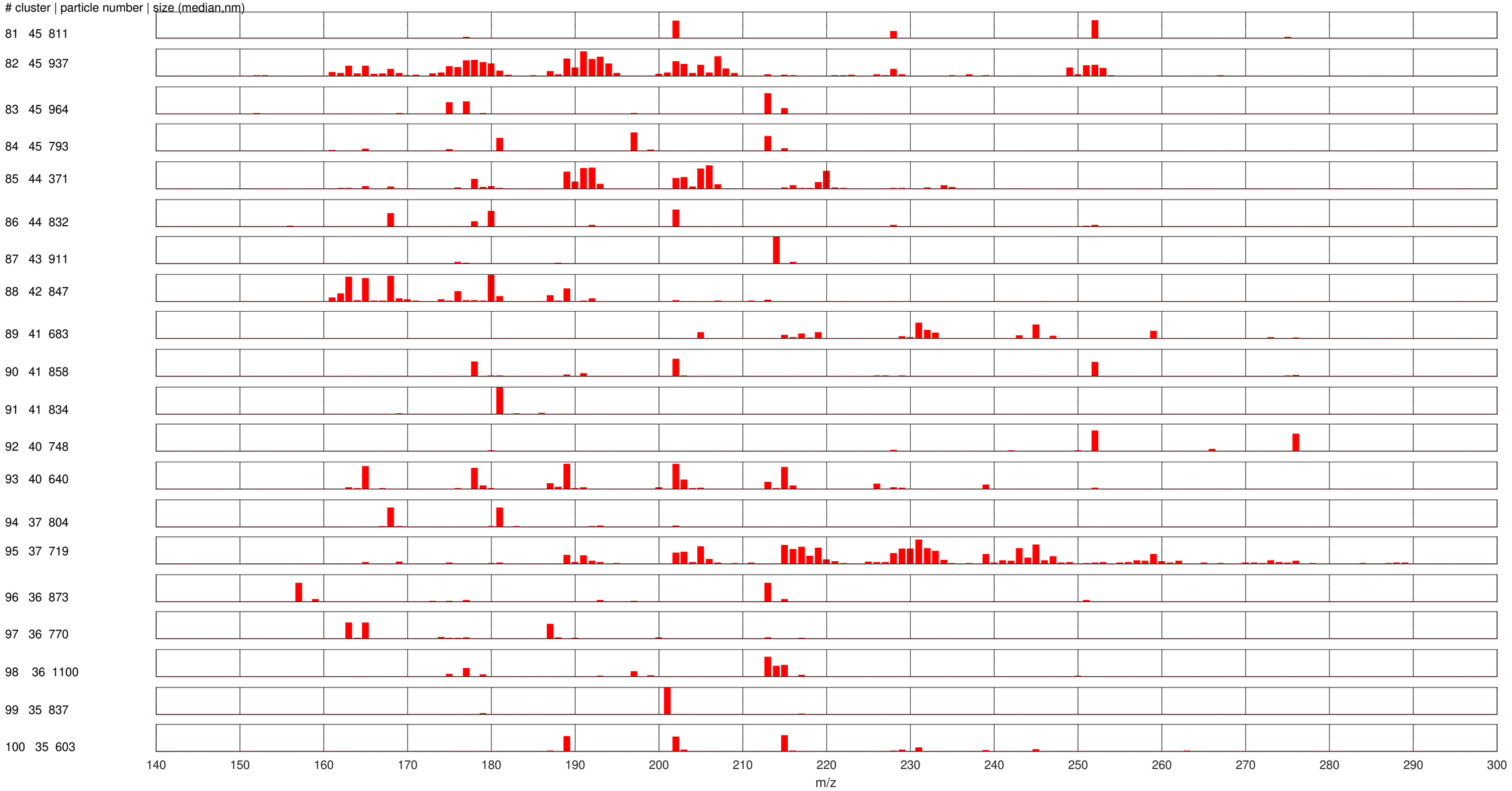
Fig. S9 (below): Top-300 clusters of the ART-2a analysis of single-particle REMPI mass spectra. The detection times of each particle belonging to the respective cluster are plotted below.

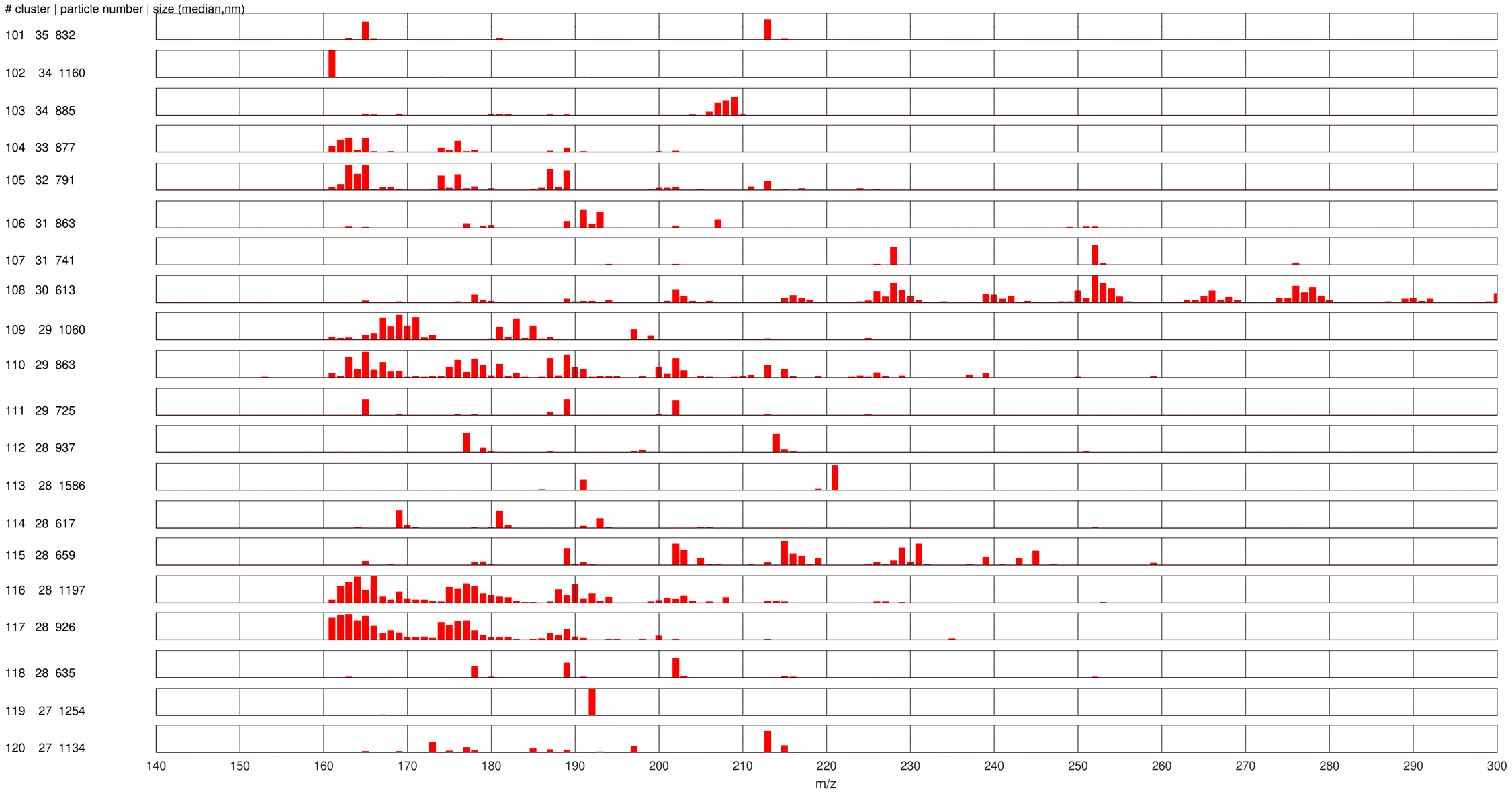

cluster | particle number | size (median,nm)
1 3426 779
2 2756 1105
3 1355 765
4 520 894
5 500 928
6 441 905
7 413 830
8 387 811
9 282 948
10 248 1694
11 224 790
12 209 803
13 190 1072
14 190 799
15 185 818
16 169 866
17 169 1692
18 162 881
19 156 872
20 156 907
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

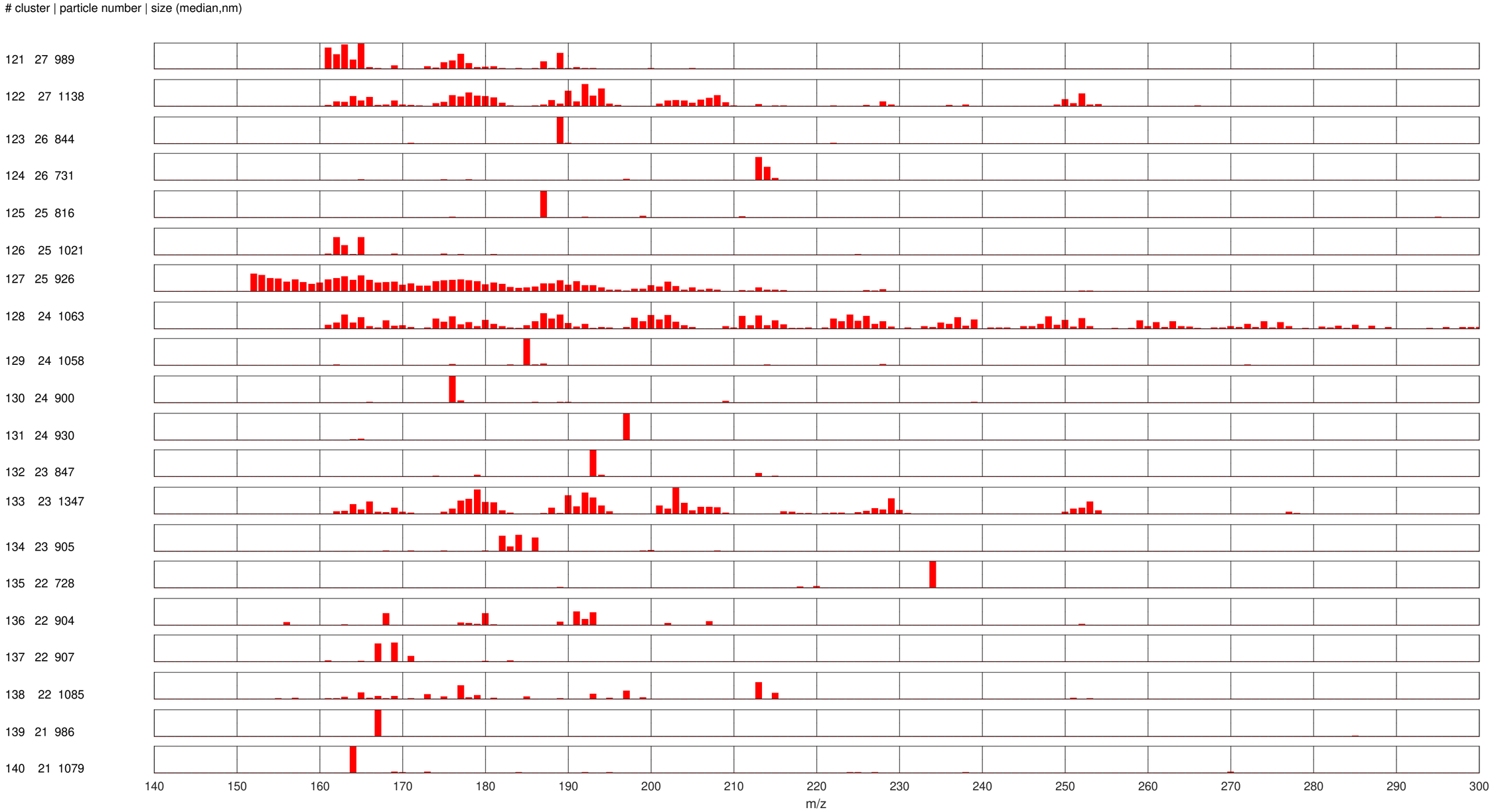

cluster | particle number | size (median,nm)
21 133 883
22 125 689
23 124 965
24 123 822
25 122 1964
26 117 1139
27 112 741
28 107 1015
29 106 847
30 106 888
31 103 814
32 101 1138
33 98 698
34 92 1080
35 92 1136
36 88 714
37 88 794
38 87 817
39 84 1090
40 84 826
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z


cluster | particle number | size (median,nm)
41 84 773
42 83 1105
43 81 821
44 78 806
45 77 1297
46 74 801
47 74 857
48 72 850
49 71 685
50 70 748
51 68 661
52 67 642
53 66 967
54 64 712
55 64 762
56 63 905
57 63 753
58 61 844
59 61 875
60 60 717
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

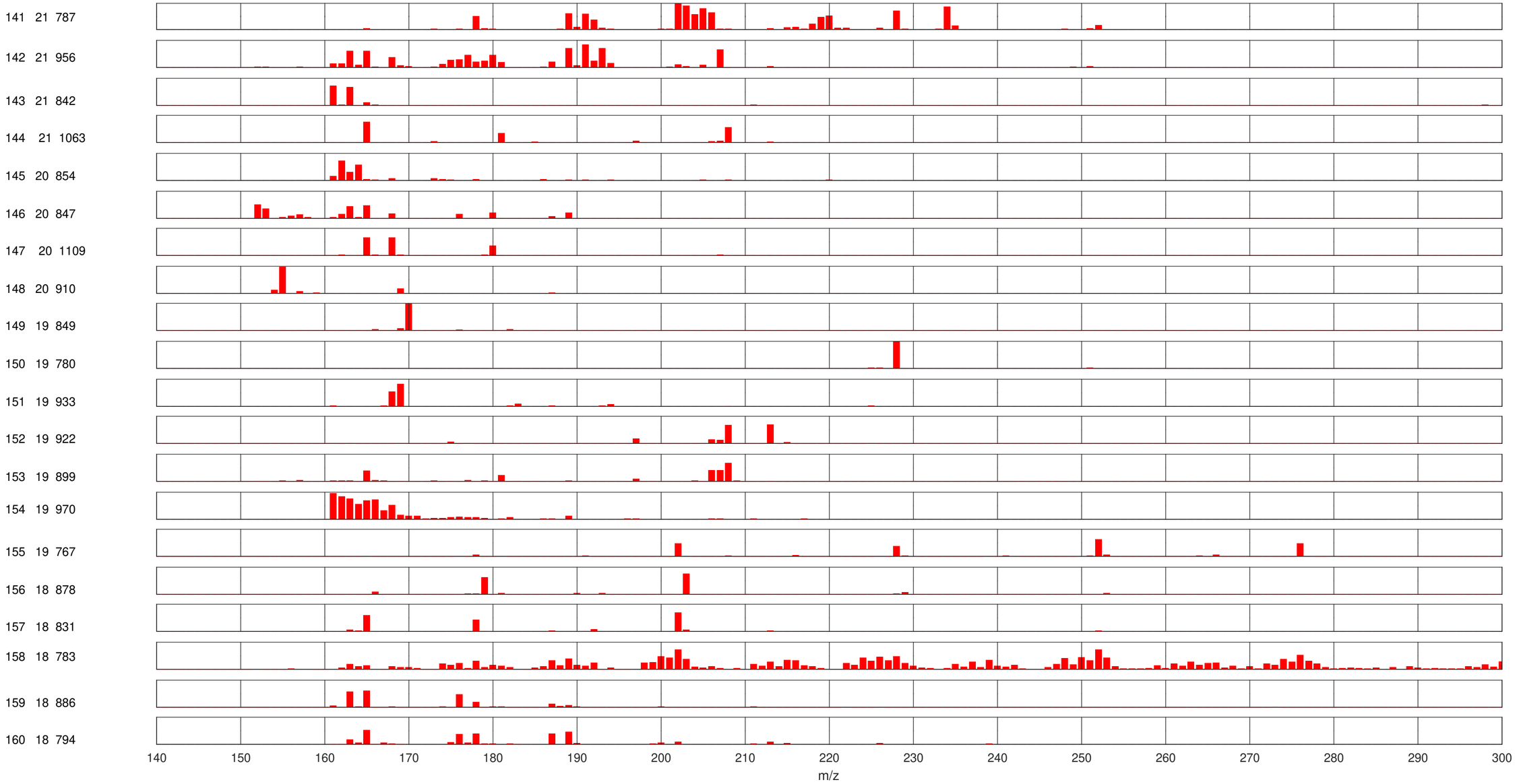

cluster | particle number | size (median,nm)
61 60 769
62 58 944
63 56 650
64 55 904
65 55 931
66 54 915
67 54 695
68 53 785
69 53 817
70 52 781
71 52 905
72 51 726
73 51 891
74 49 755
75 49 792
76 49 735
77 49 760
78 48 982
79 46 918
80 46 1225
140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300
m/z

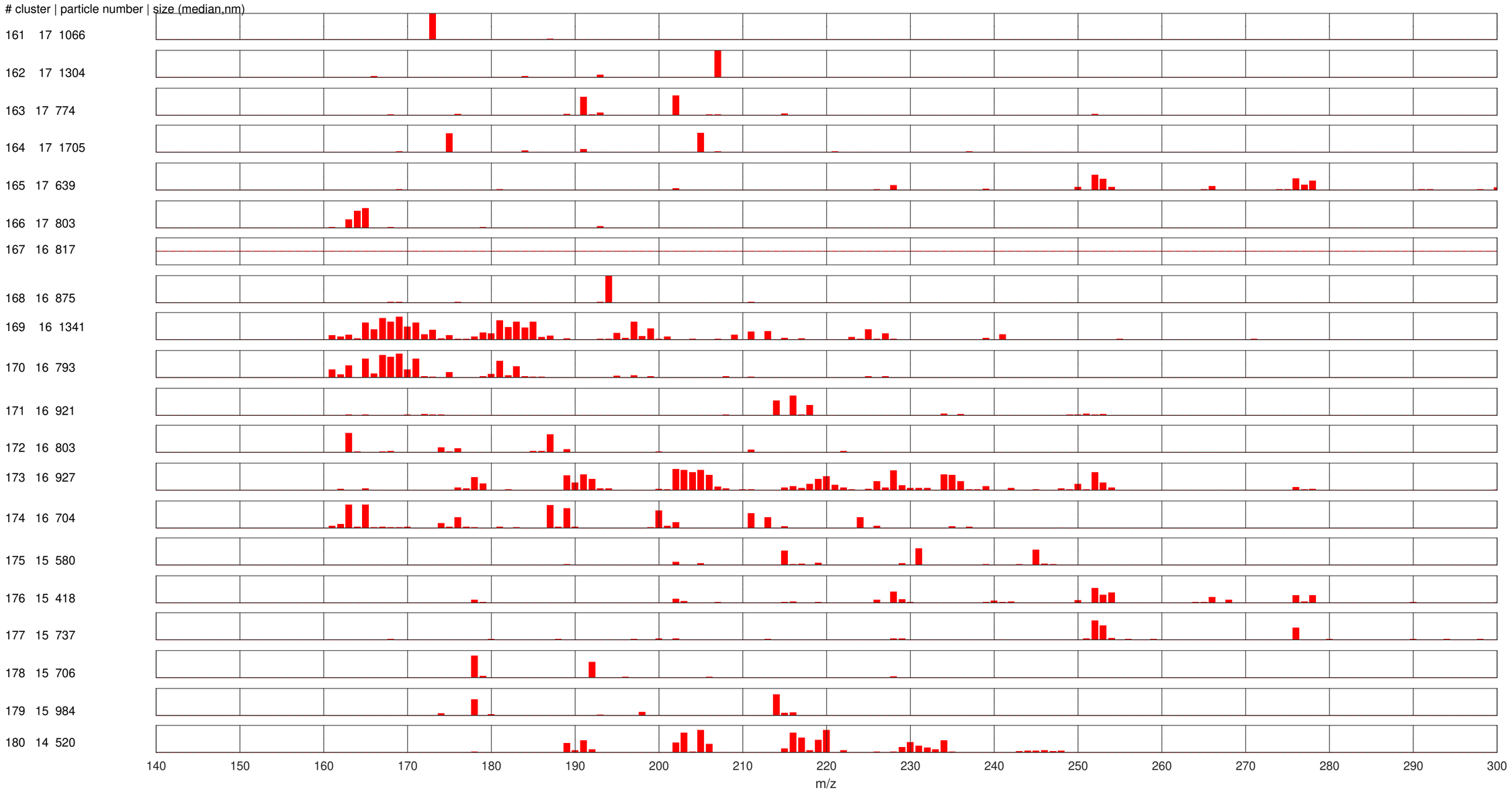

cluster | particle number | size (median,nm)
81 45 811
82 45 937
83 45 964
84 45 793
85 44 371
86 44 832
87 43 911
88 42 847
89 41 683
90 41 858
91 41 834
92 40 748
93 40 640
94 37 804
95 37 719
96 36 873
97 36 770
98 36 1100
99 35 837
100 35 603
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

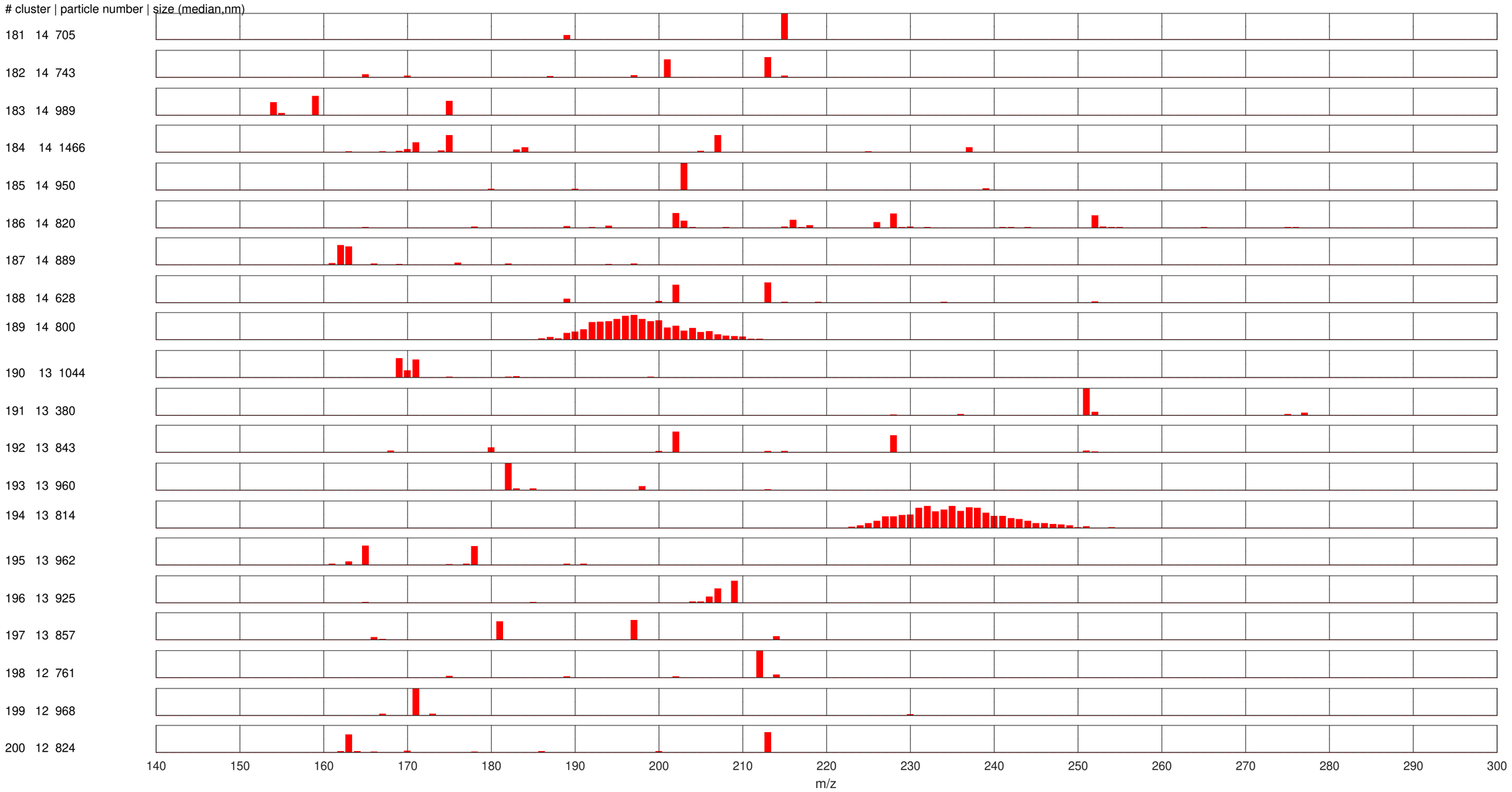

cluster | particle number | size (median,nm)
101 35 832
102 34 1160
103 34 885
104 33 877
105 32 791
106 31 863
107 31 741
108 30 613
109 29 1060
110 29 863
111 29 725
112 28 937
113 28 1586
114 28 617
115 28 659
116 28 1197
117 28 926
118 28 635
119 27 1254
120 27 1134
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z


cluster | particle number | size (median,nm)
121 27 989
122 27 1138
123 26 844
124 26 731
125 25 816
126 25 1021
127 25 926
128 24 1063
129 24 1058
130 24 900
131 24 930
132 23 847
133 23 1347
134 23 905
135 22 728
136 22 904
137 22 907
138 22 1085
139 21 986
140 21 1079
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

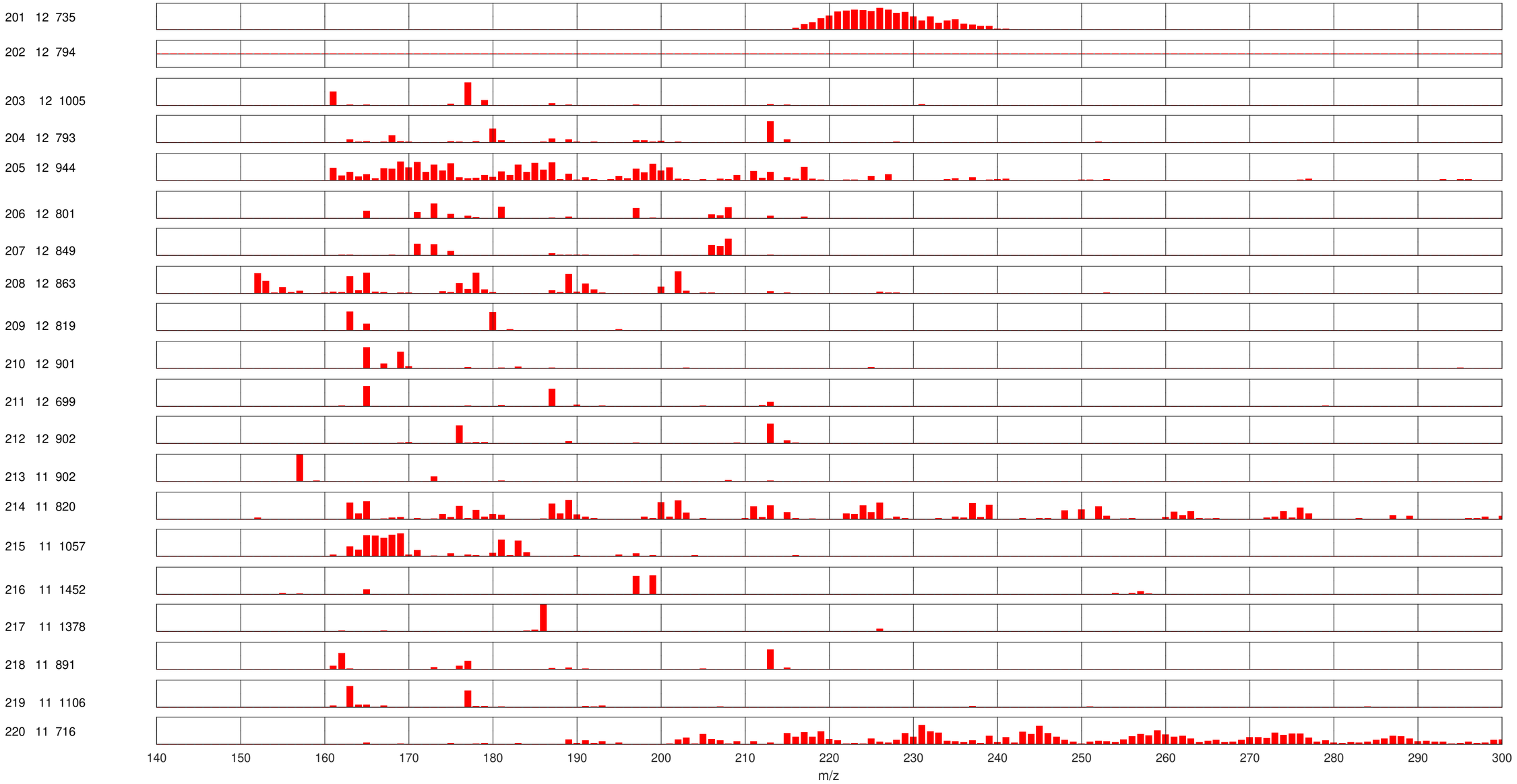
cluster | particle number | size (median,nm)

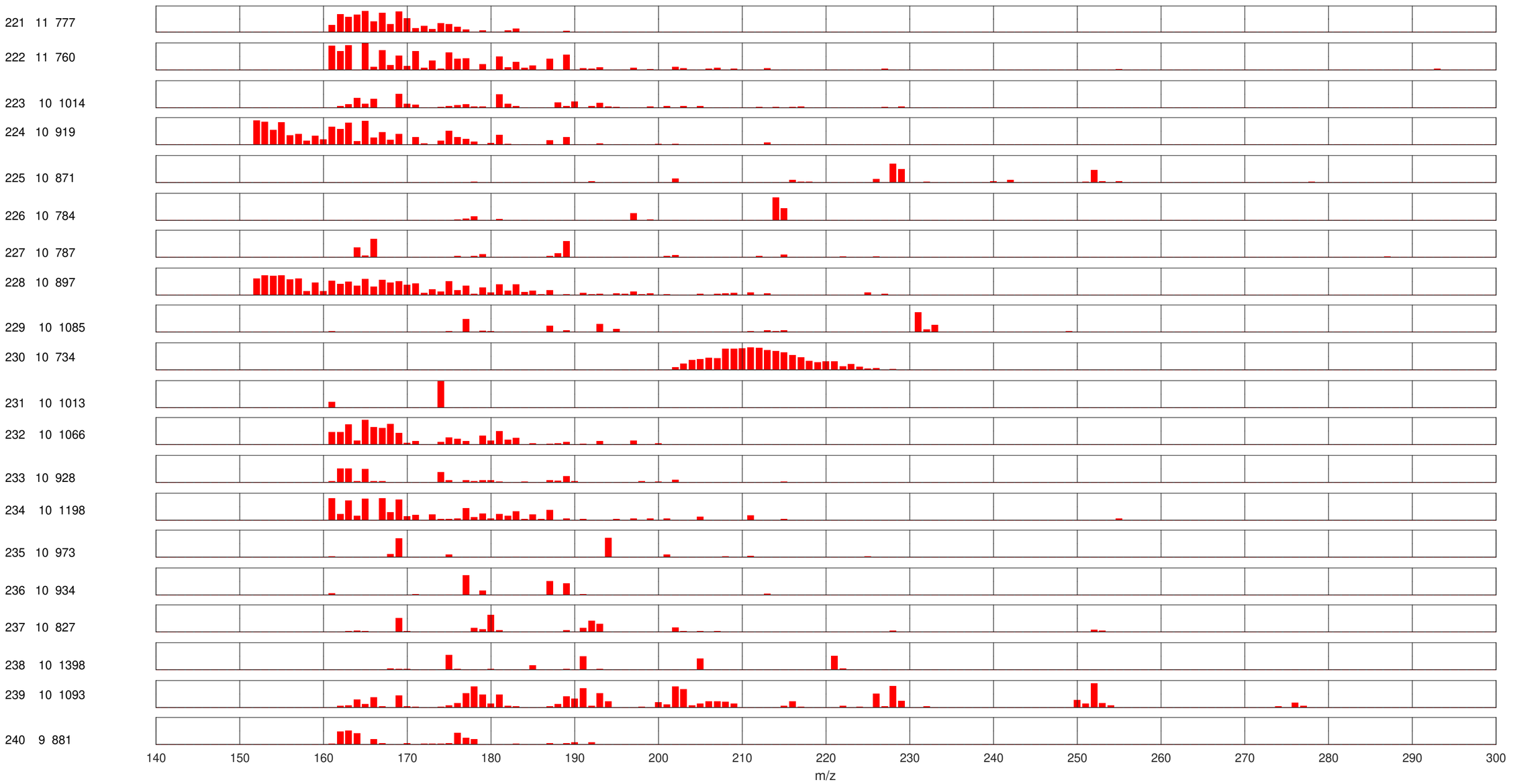


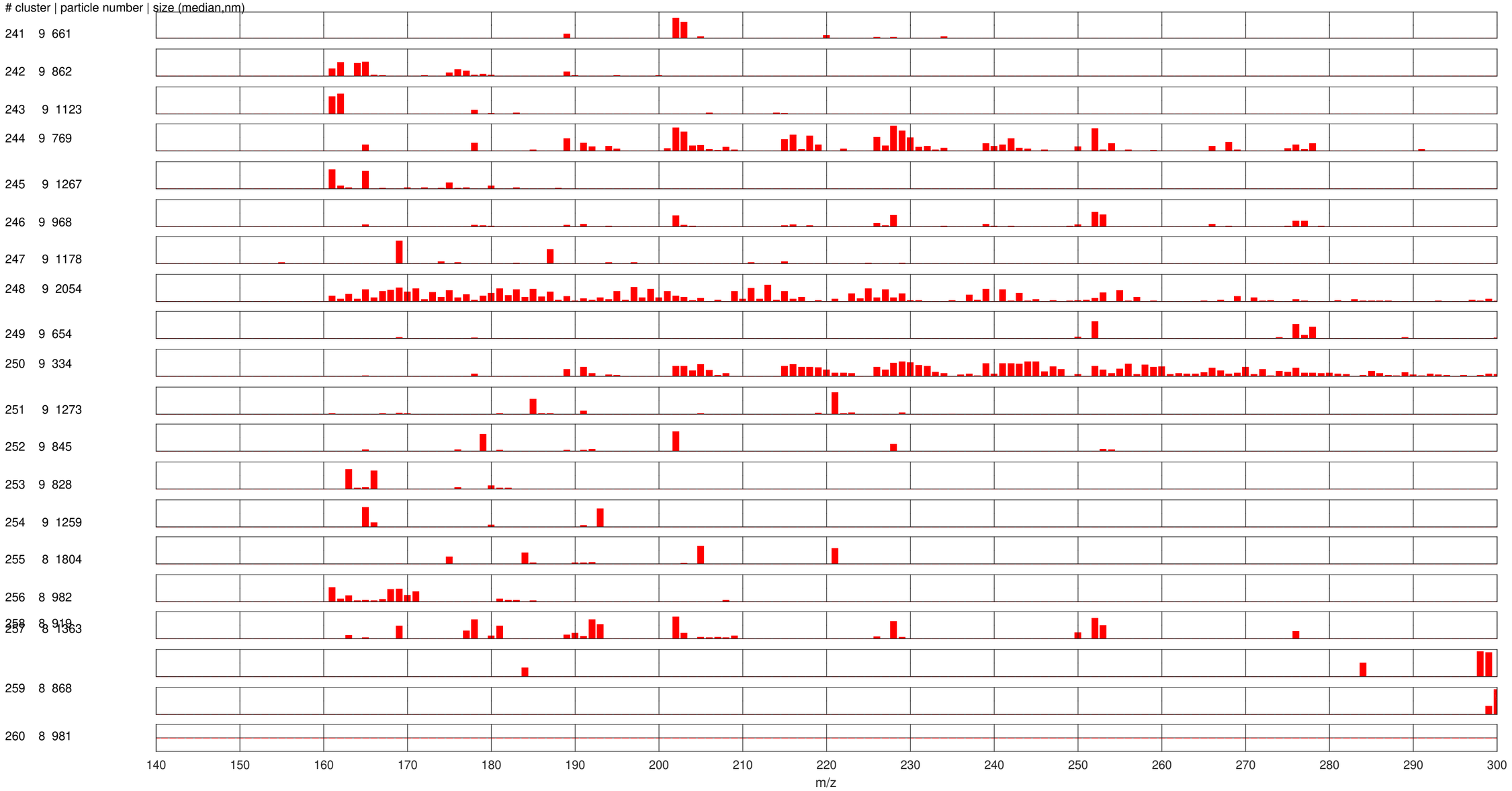

cluster | particle number | size (median,nm)
161 17 1066
162 17 1304
163 17 774
164 17 1705
165 17 639
166 17 803
167 16 817
168 16 875
169 16 1341
170 16 793
171 16 921
172 16 803
173 16 927
174 16 704
175 15 580
176 15 418
177 15 737
178 15 706
179 15 984
180 14 520
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

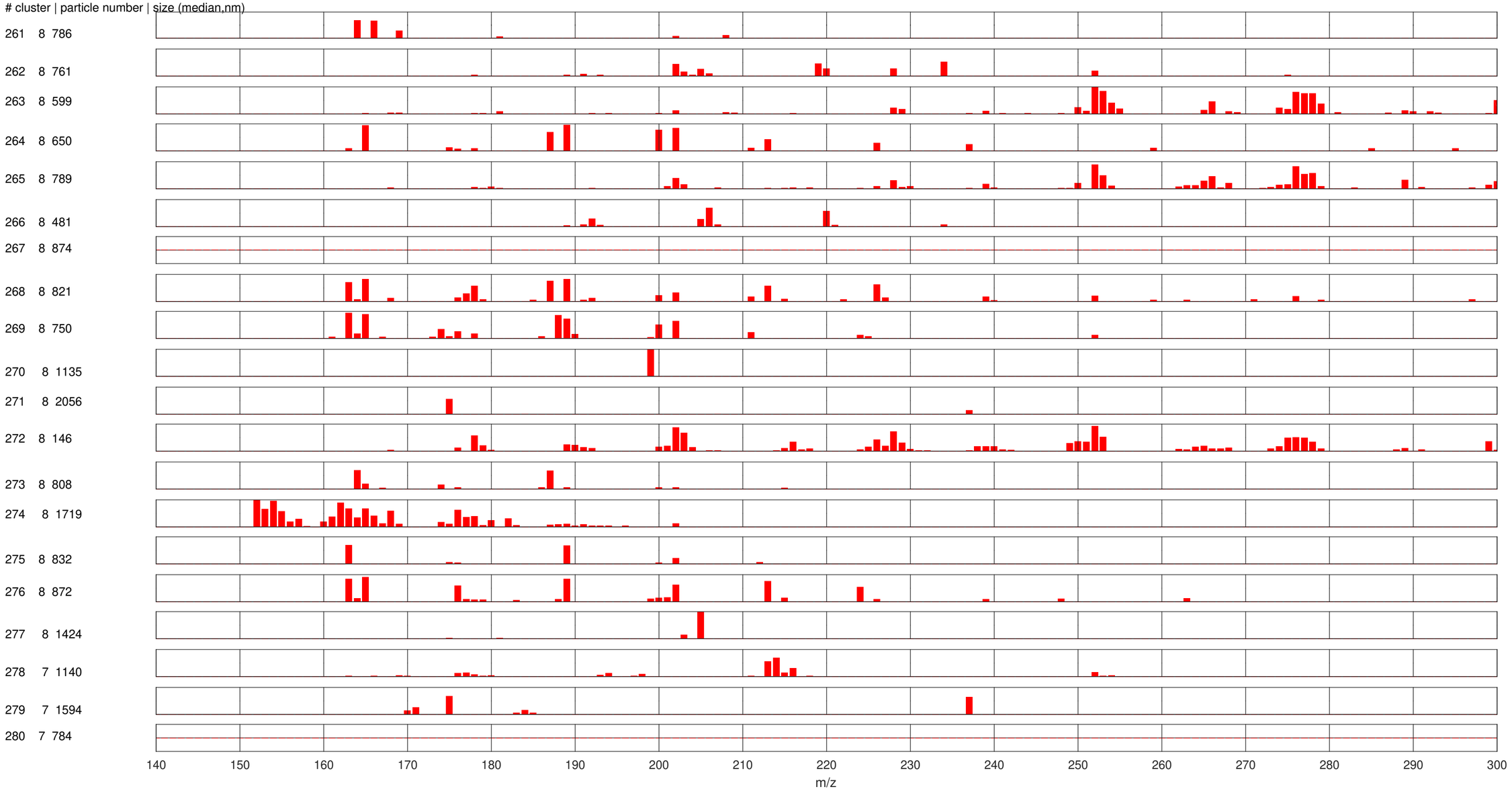

cluster | particle number | size (median,nm)
181 14 705
182 14 743
183 14 989
184 14 1466
185 14 950
186 14 820
187 14 889
188 14 628
189 14 800
190 13 1044
191 13 380
192 13 843
193 13 960
194 13 814
195 13 962
196 13 925
197 13 857
198 12 761
199 12 968
200 12 824
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

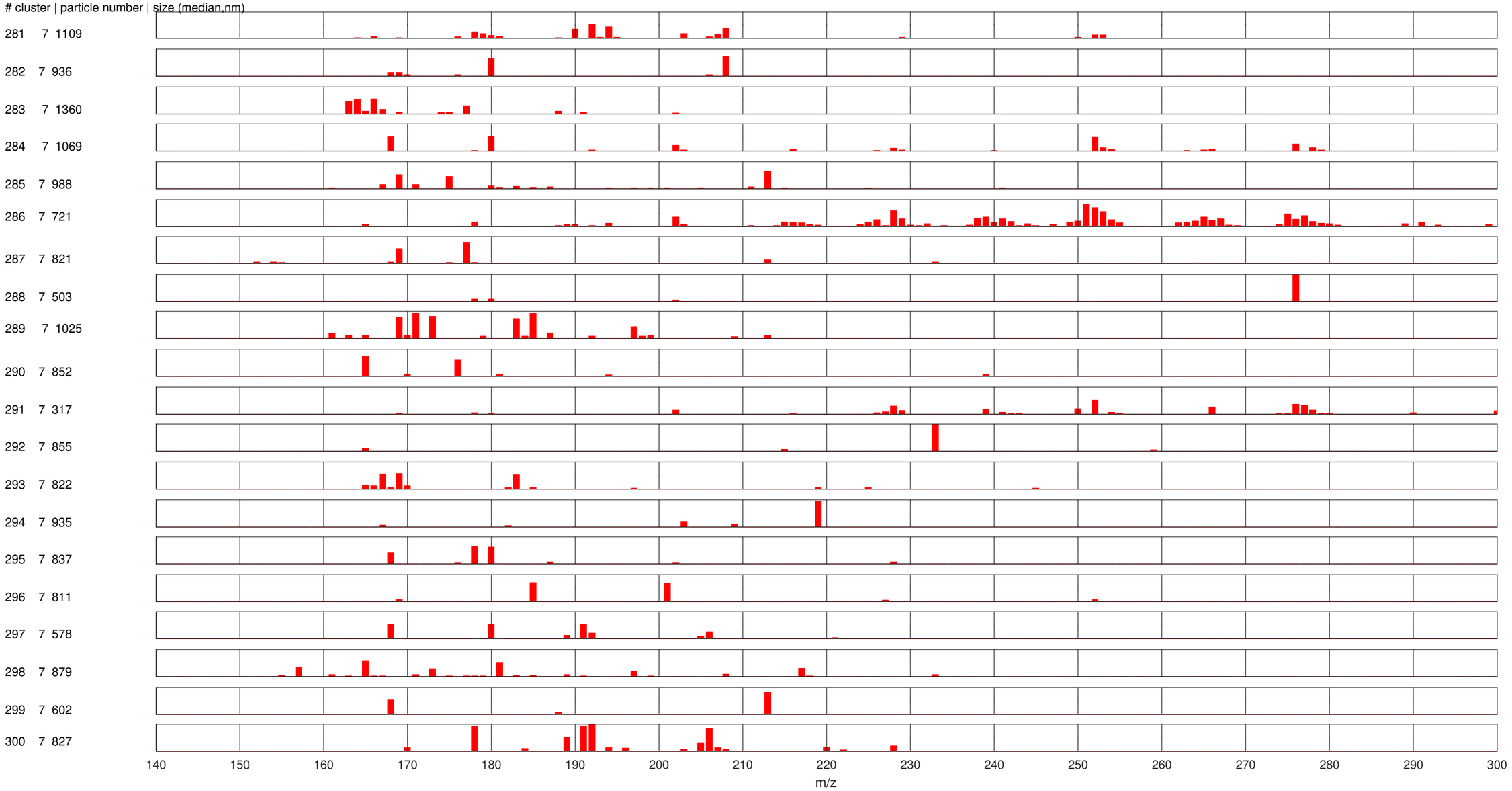
cluster | particle number | size (median,nm)

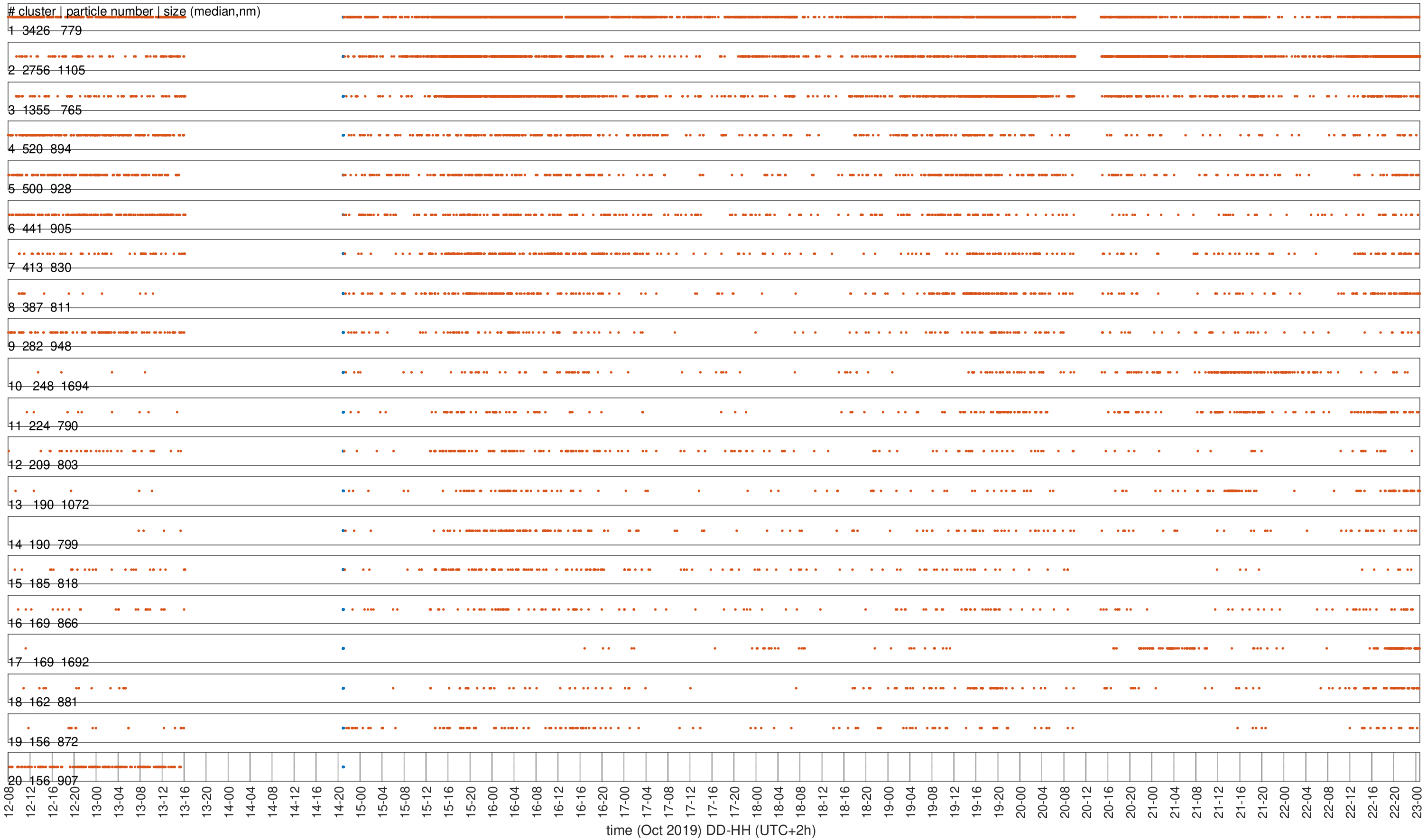


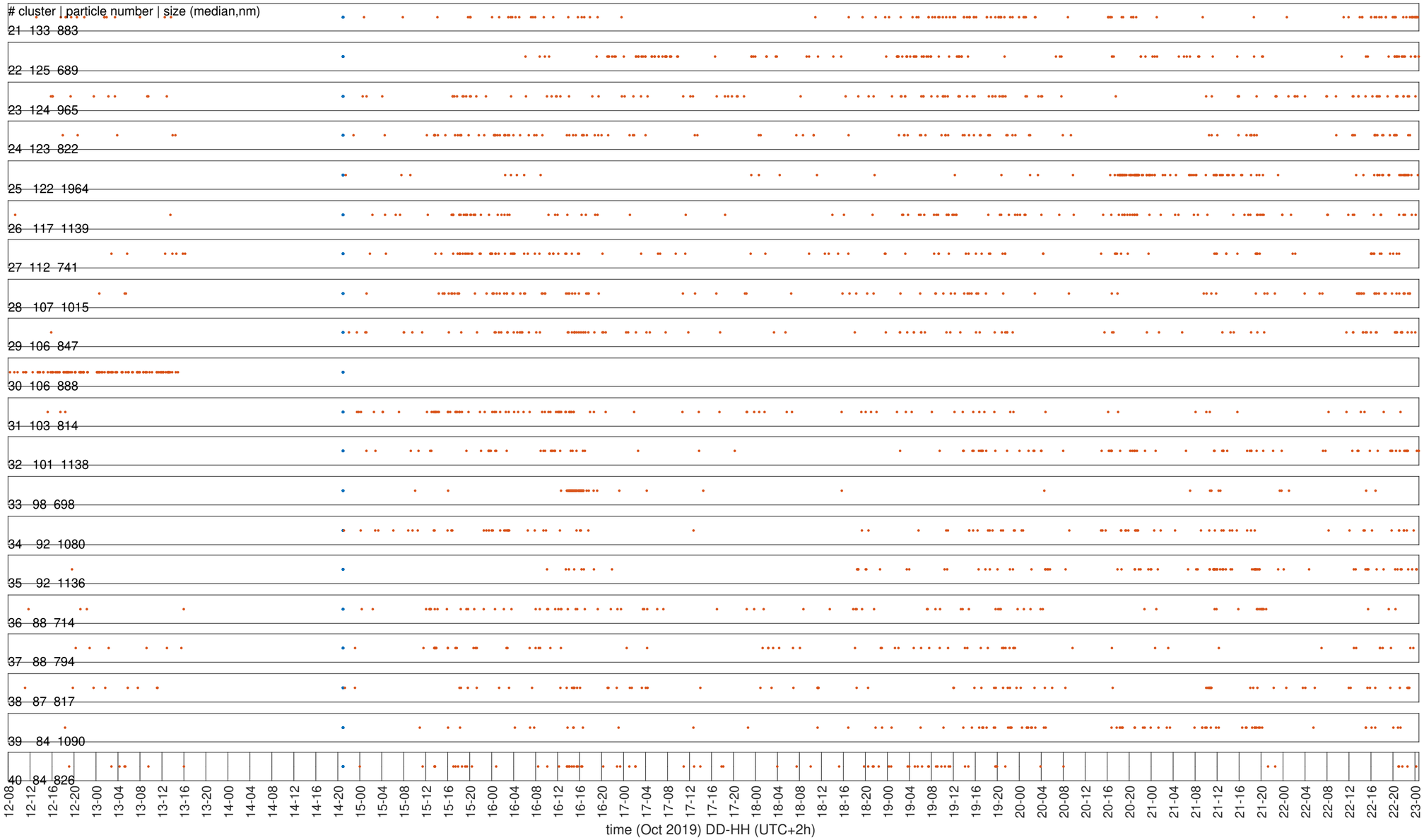

cluster | particle number | size (median,nm)
221 11 777
222 11 760
223 10 1014
224 10 919
225 10 871
226 10 784
227 10 787
228 10 897
229 10 1085
230 10 734
231 10 1013
232 10 1066
233 10 928
234 10 1198
235 10 973
236 10 934
237 10 827
238 10 1398
239 10 1093
240 9 881
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

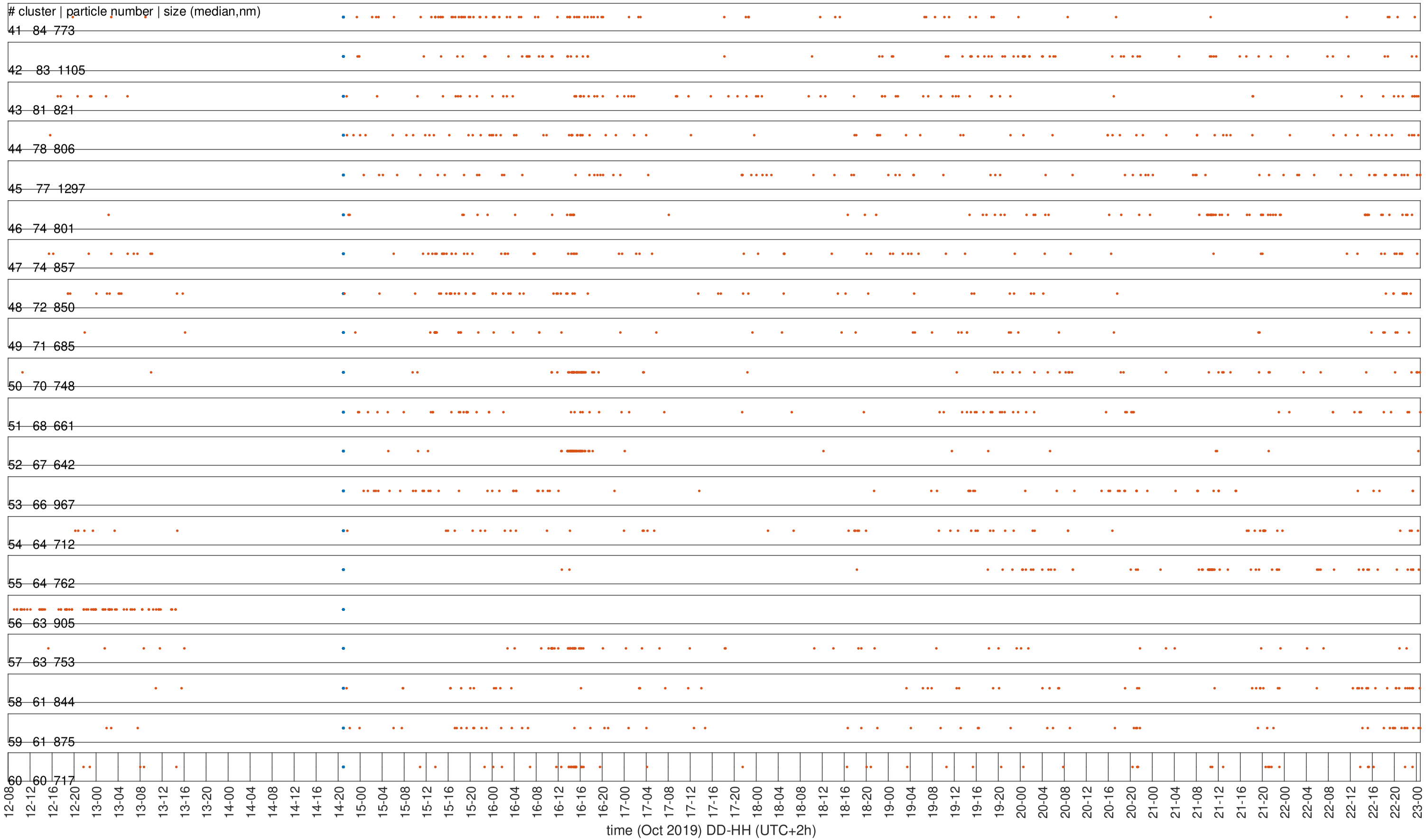

cluster | particle number | size (median,nm)
241 9 661
242 9 862
243 9 1123
244 9 769
245 9 1267
246 9 968
247 9 1178
248 9 2054
249 9 654
250 9 334
251 9 1273
252 9 845
253 9 828
254 9 1259
255 8 1804
256 8 982
258 8 919
257 8 1363
259 8 868
260 8 981
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
m/z

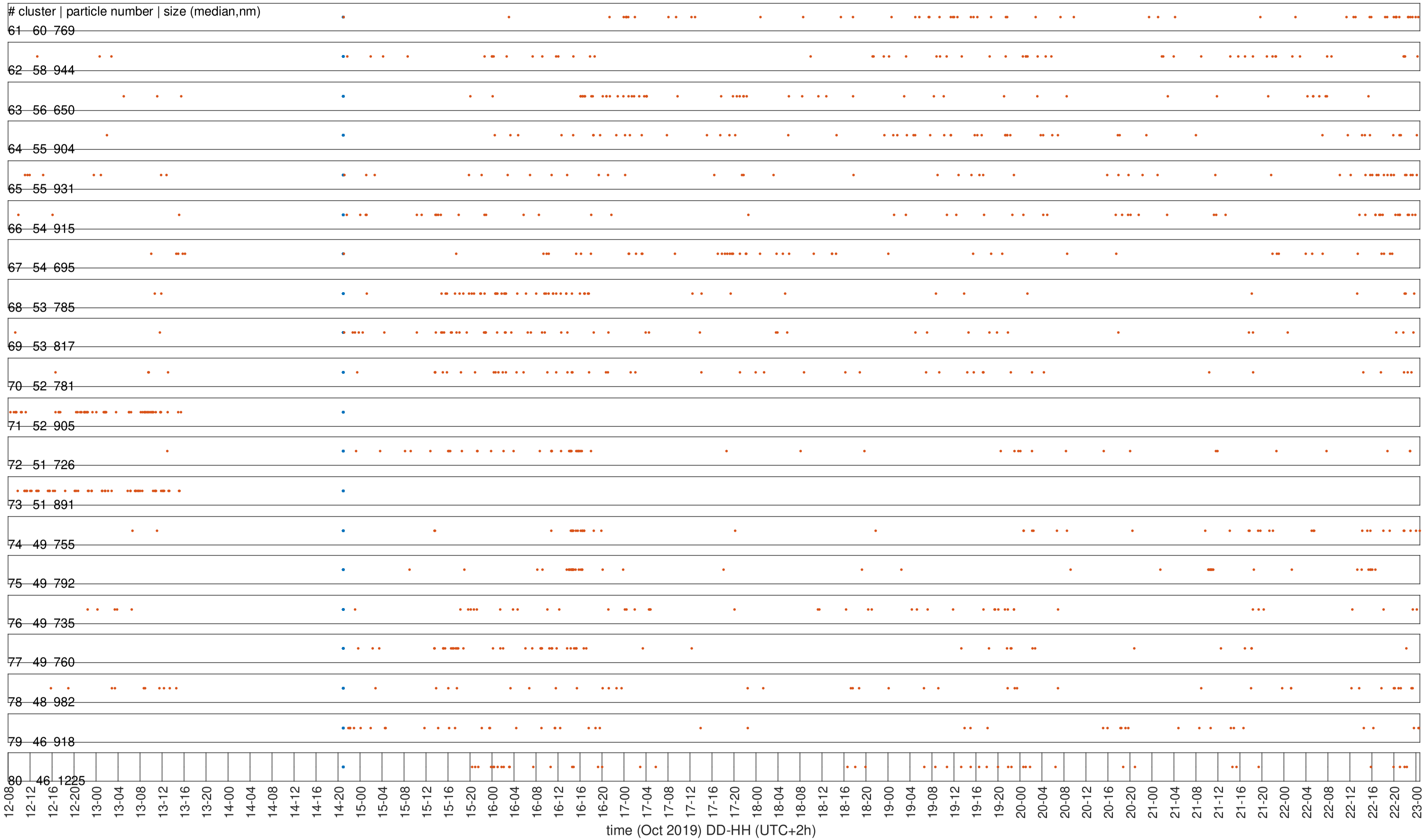

cluster | particle number | size (median,nm)
261 8 786
262 8 761
263 8 599
264 8 650
265 8 789
266 8 481
267 8 874
268 8 821
269 8 750
270 8 1135
271 8 2056
272 8 146
273 8 808
274 8 1719
275 8 832
276 8 872
277 8 1424
278 7 1140
279 7 1594
280 7 784
140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300
m/z

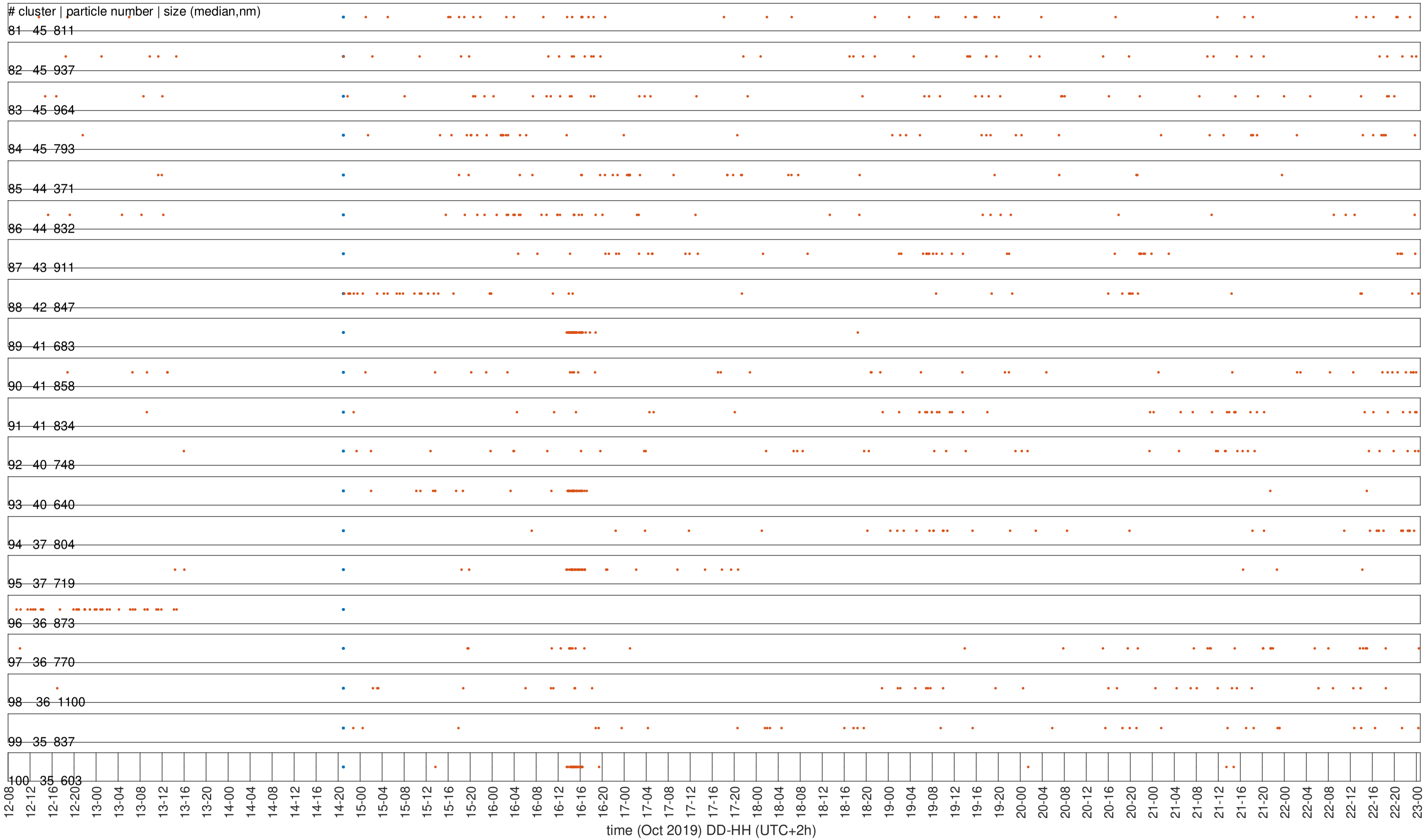

cluster | particle number | size (median,nm)
281 7 1109
282 7 936
283 7 1360
284 7 1069
285 7 988
286 7 721
287 7 821
288 7 503
289 7 1025
290 7 852
291 7 317
292 7 855
293 7 822
294 7 935
295 7 837
296 7 811
297 7 578
298 7 879
299 7 602
300 7 827
140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300
m/z

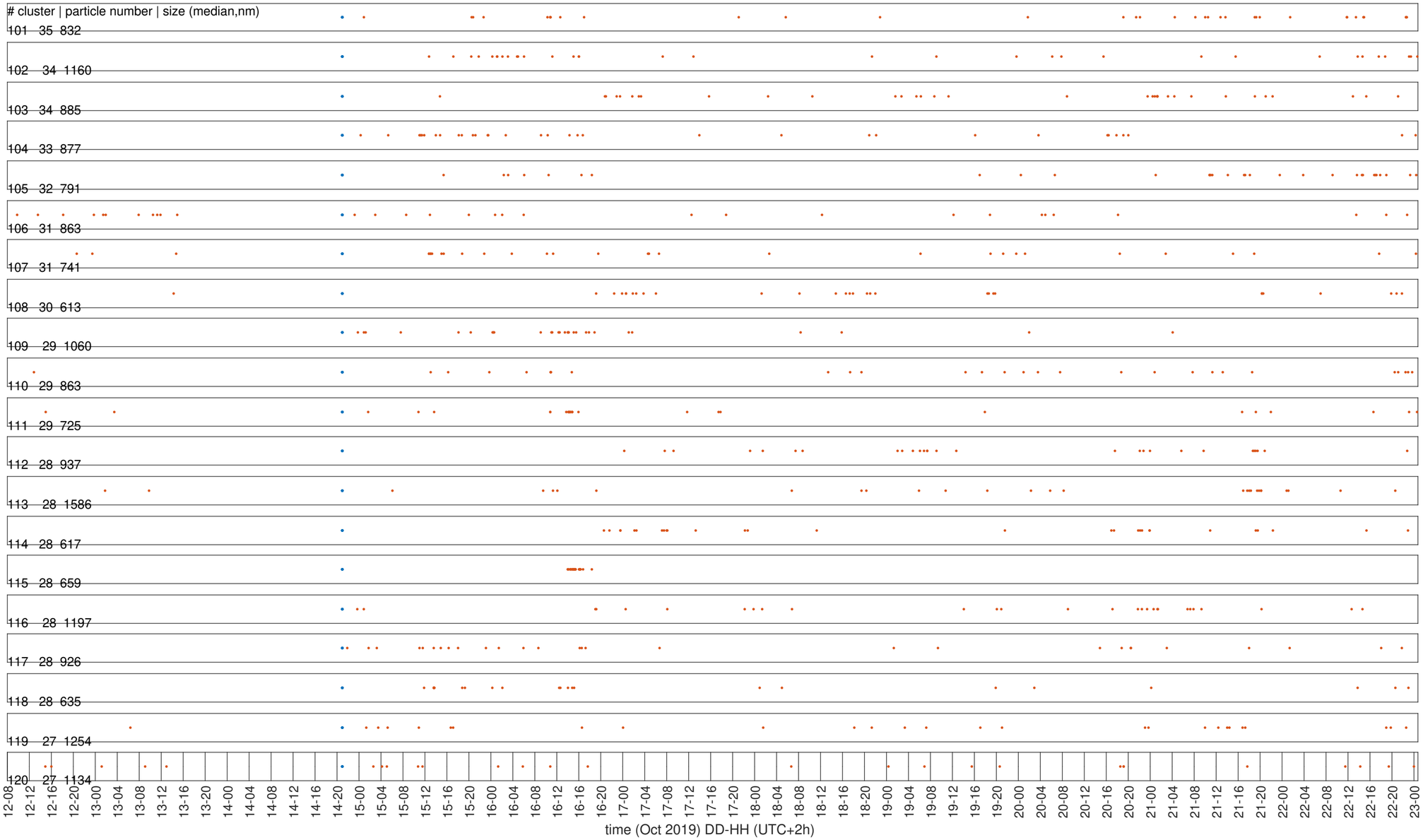

cluster | particle number | size (median,nm)
1 3426 779
2 2756 1105
3 1355 765
4 520 894
5 500 928
6 441 905
7 413 830
8 387 811
9 282 948
10 248 1694
11 224 790
12 209 803
13 190 1072
14 190 799
15 185 818
16 169 866
17 169 1692
18 162 881
19 156 872
20 156 907
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

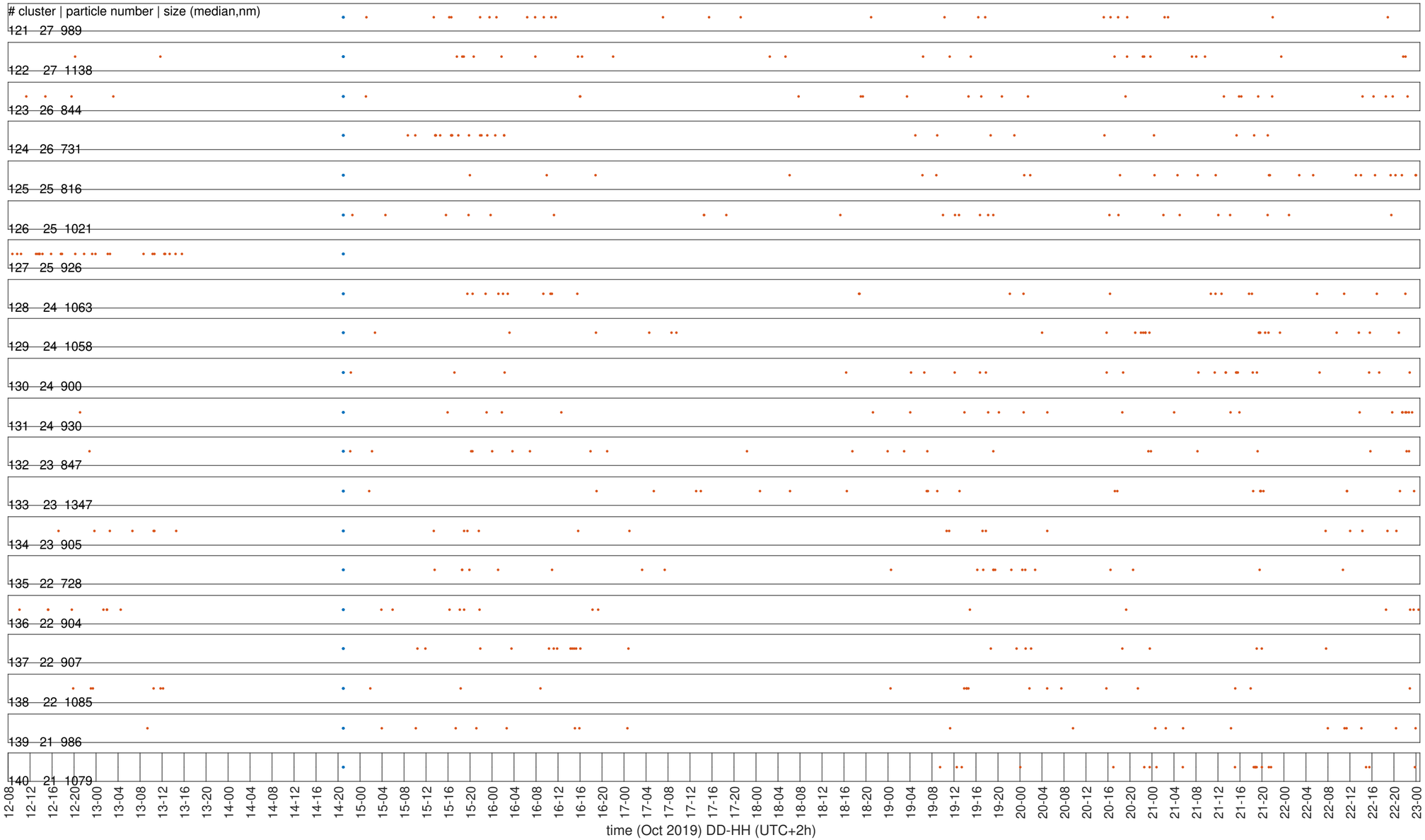

cluster | particle number | size (median,nm)
21 133 883
22 125 689
23 124 965
24 123 822
25 122 1964
26 117 1139
27 112 741
28 107 1015
29 106 847
30 106 888
31 103 814
32 101 1138
33 98 698
34 92 1080
35 92 1136
36 88 714
37 88 794
38 87 817
39 84 1090
40 84 826
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

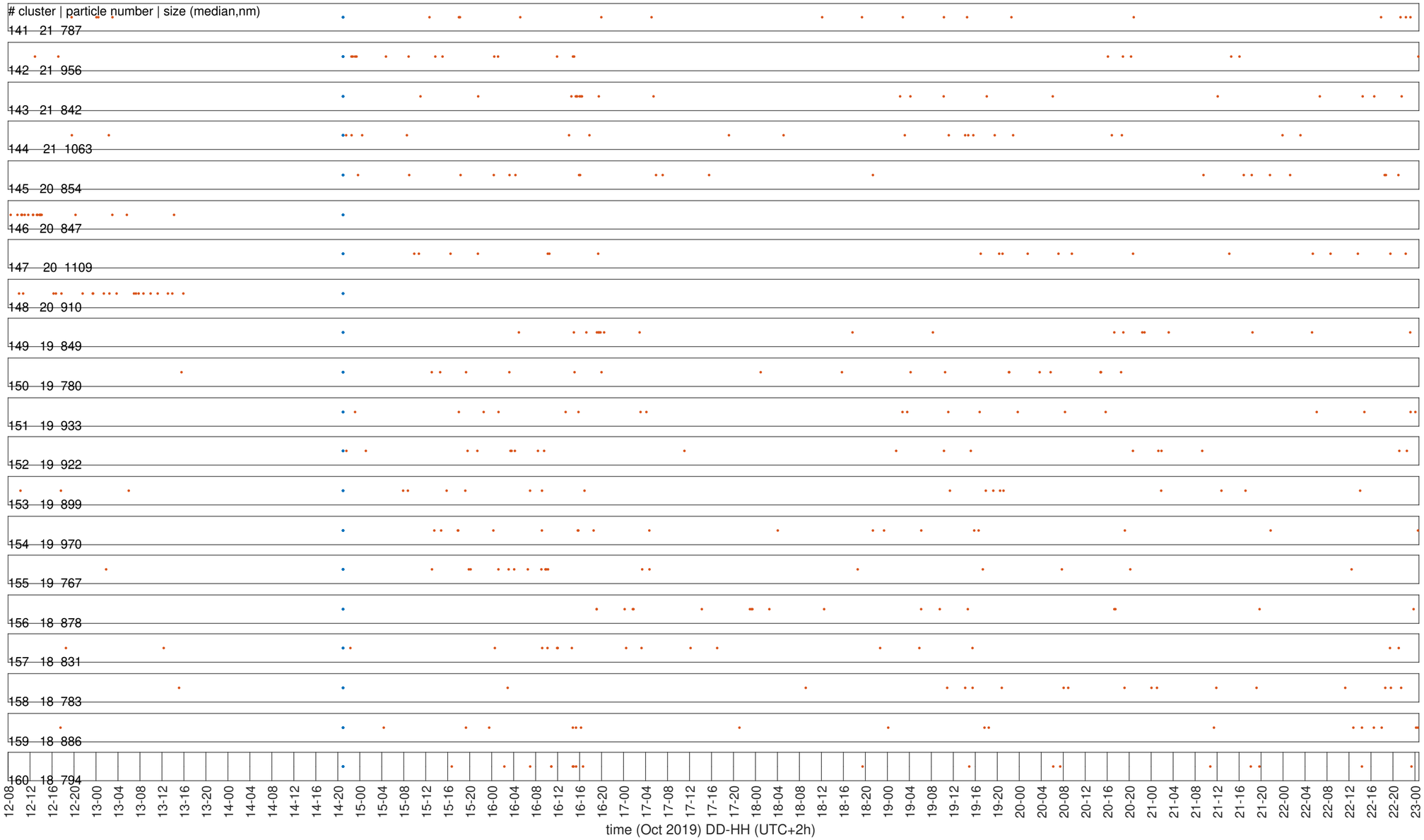

cluster | particle number | size (median,nm)
41 84 773
42 83 1105
43 81 821
44 78 806
45 77 1297
46 74 801
47 74 857
48 72 850
49 71 685
50 70 748
51 68 661
52 67 642
53 66 967
54 64 712
55 64 762
56 63 905
57 63 753
58 61 844
59 61 875
60 60 717
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

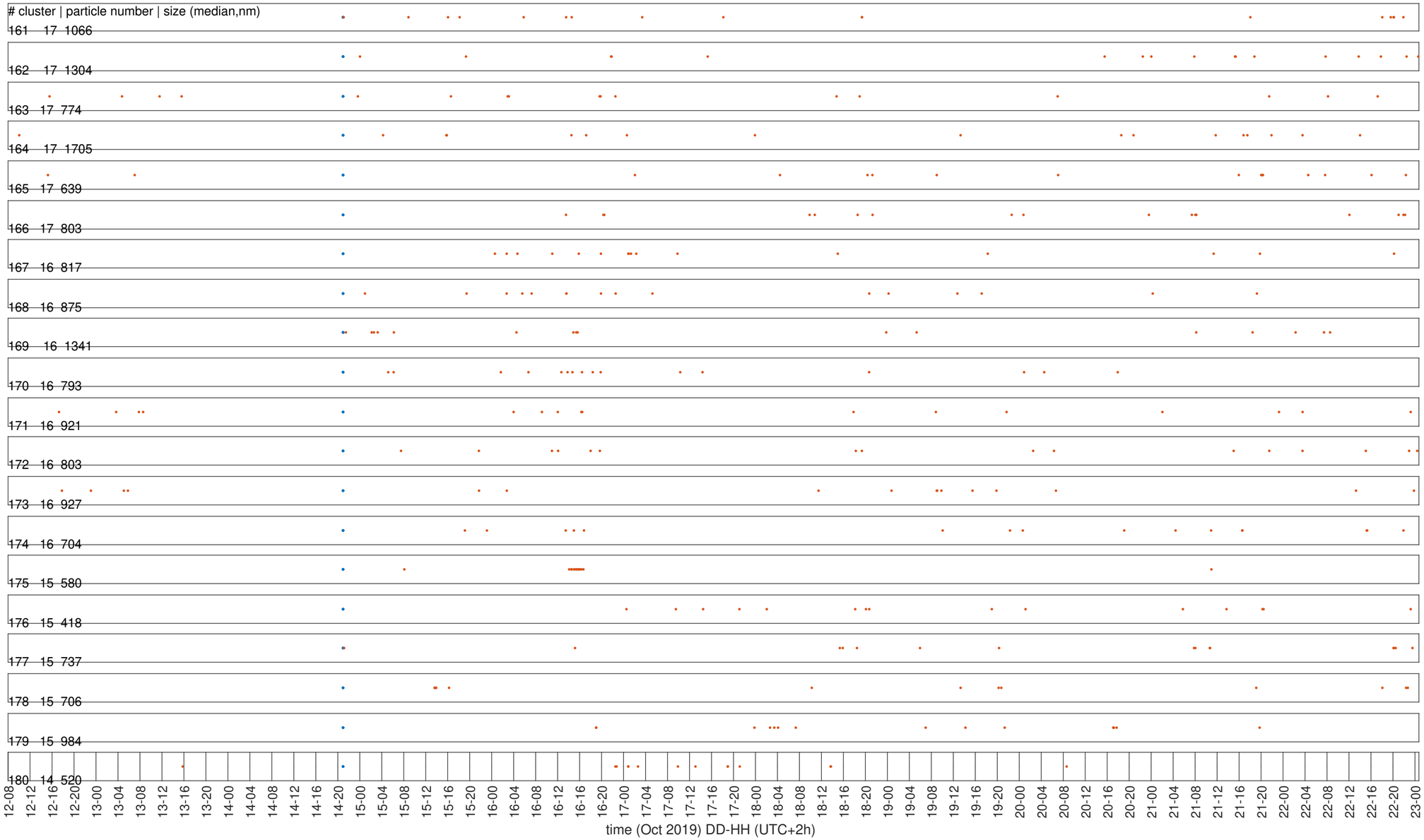

cluster | particle number | size (median,nm)
61 60 769
62 58 944
63 56 650
64 55 904
65 55 931
66 54 915
67 54 695
68 53 785
69 53 817
70 52 781
71 52 905
72 51 726
73 51 891
74 49 755
75 49 792
76 49 735
77 49 760
78 48 982
79 46 918
80 46 1225
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

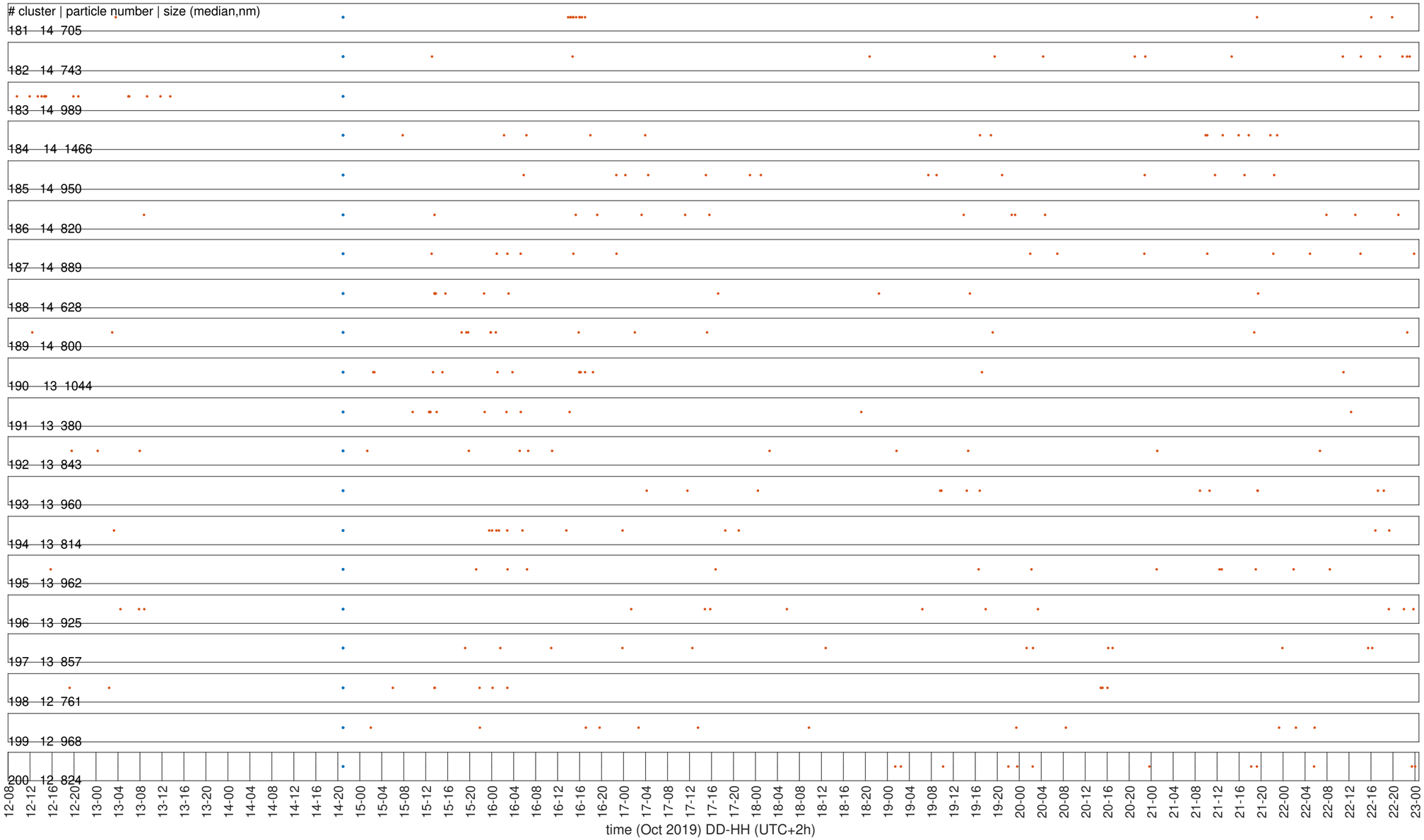

cluster | particle number | size (median,nm)
81 45 811
82 45 937
83 45 964
84 45 793
85 44 371
86 44 832
87 43 911
88 42 847
89 41 683
90 41 858
91 41 834
92 40 748
93 40 640
94 37 804
95 37 719
96 36 873
97 36 770
98 36 1100
99 35 837
100 35 603
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

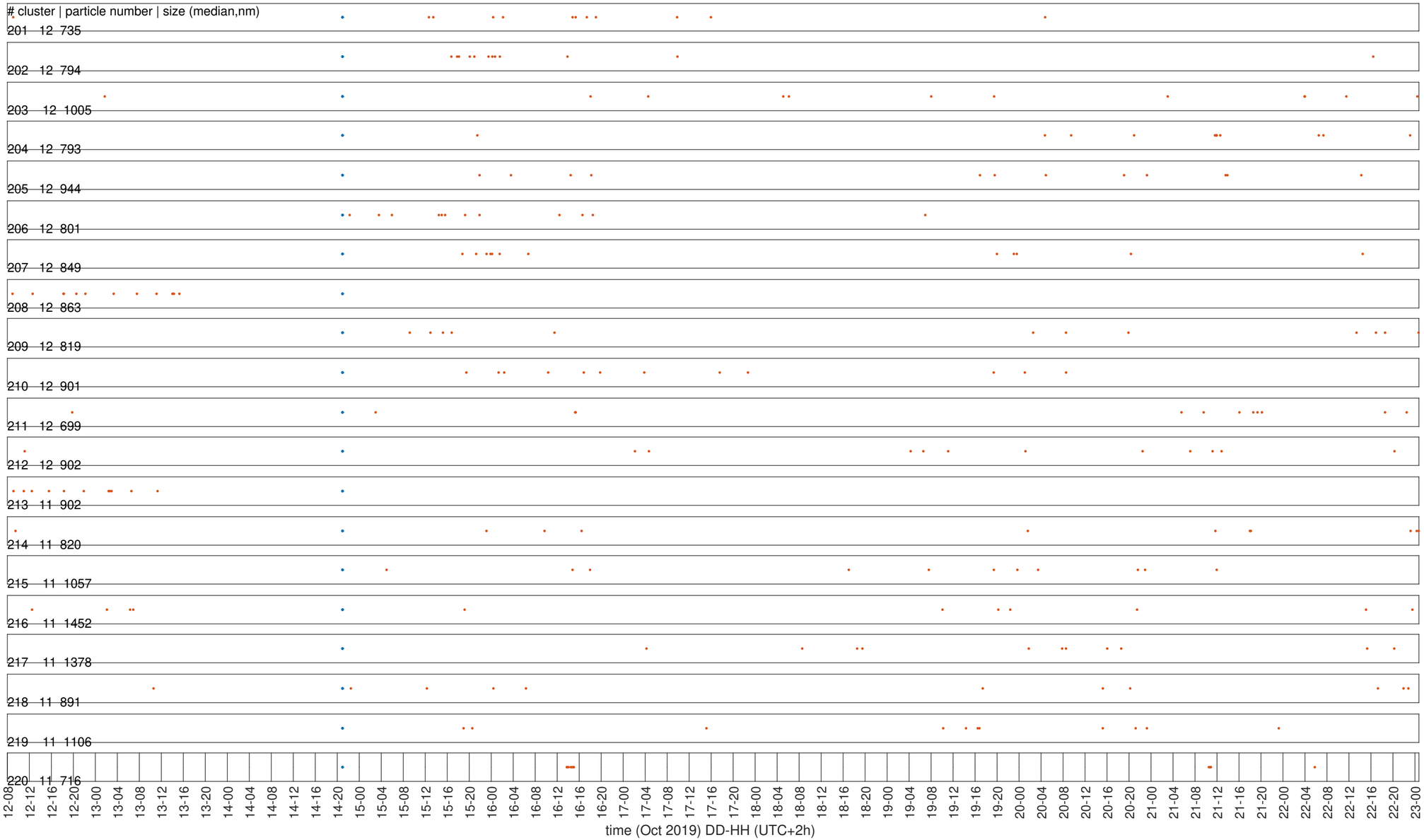

cluster | particle number | size (median,nm)
101 35 832
102 34 1160
103 34 885
104 33 877
105 32 791
106 31 863
107 31 741
108 30 613
109 29 1060
110 29 863
111 29 725
112 28 937
113 28 1586
114 28 617
115 28 659
116 28 1197
117 28 926
118 28 635
119 27 1254
120 27 1134
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

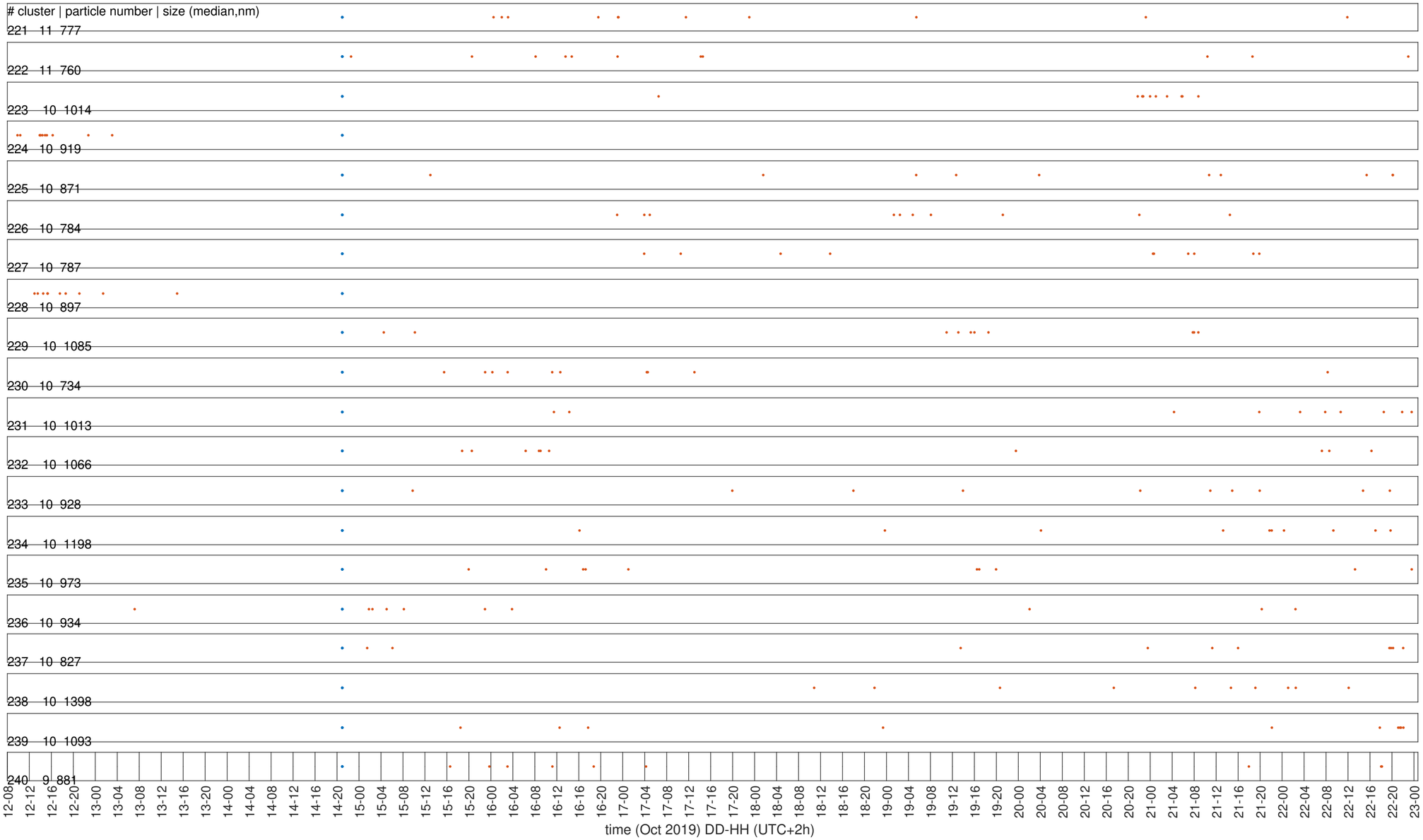

cluster | particle number | size (median,nm)
121 27 989
122 27 1138
123 26 844
124 26 731
125 25 816
126 25 1021
127 25 926
128 24 1063
129 24 1058
130 24 900
131 24 930
132 23 847
133 23 1347
134 23 905
135 22 728
136 22 904
137 22 907
138 22 1085
139 21 986
140 21 1079
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

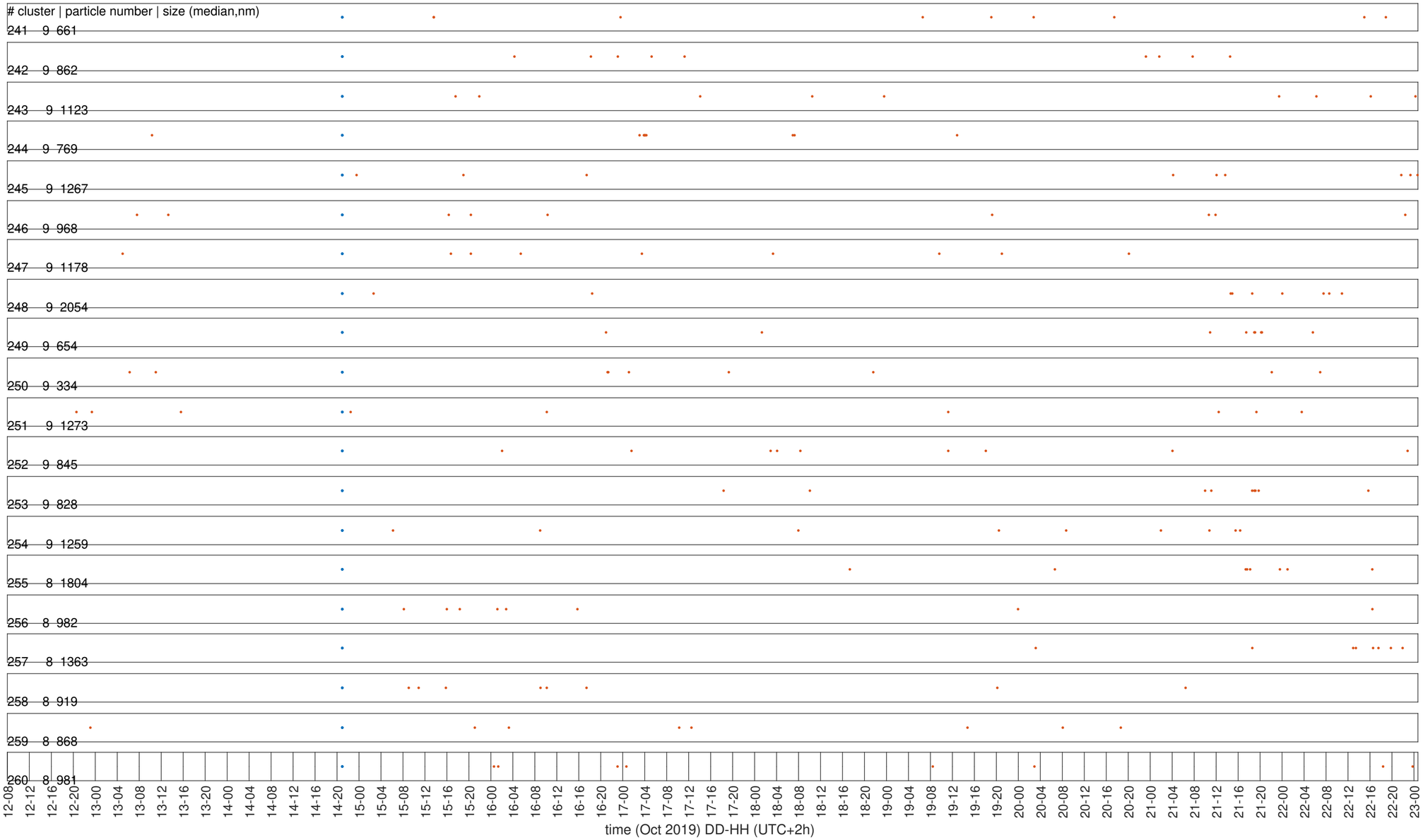

cluster | particle number | size (median,nm)
141 21 787
142 21 956
143 21 842
144 21 1063
145 20 854
146 20 847
147 20 1109
148 20 910
149 19 849
150 19 780
151 19 933
152 19 922
153 19 899
154 19 970
155 19 767
156 18 878
157 18 831
158 18 783
159 18 886
160 18 794
12-08
12-12
12-16
12-20
13-00
13-04
13-08
13-12
13-16
13-20
14-00
14-04
14-08
14-12
14-16
14-20
15-00
15-04
15-08
15-12
15-16
15-20
16-00
16-04
16-08
16-12
16-16
16-20
17-00
17-04
17-08
17-12
17-16
17-20
18-00
18-04
18-08
18-12
18-16
18-20
19-00
19-04
19-08
19-12
19-16
19-20
20-00
20-04
20-08
20-12
20-16
20-20
21-00
21-04
21-08
21-12
21-16
21-20
22-00
22-04
22-08
22-12
22-16
22-20
23-00
time (Oct 2019) DD-HH (UTC+2h)

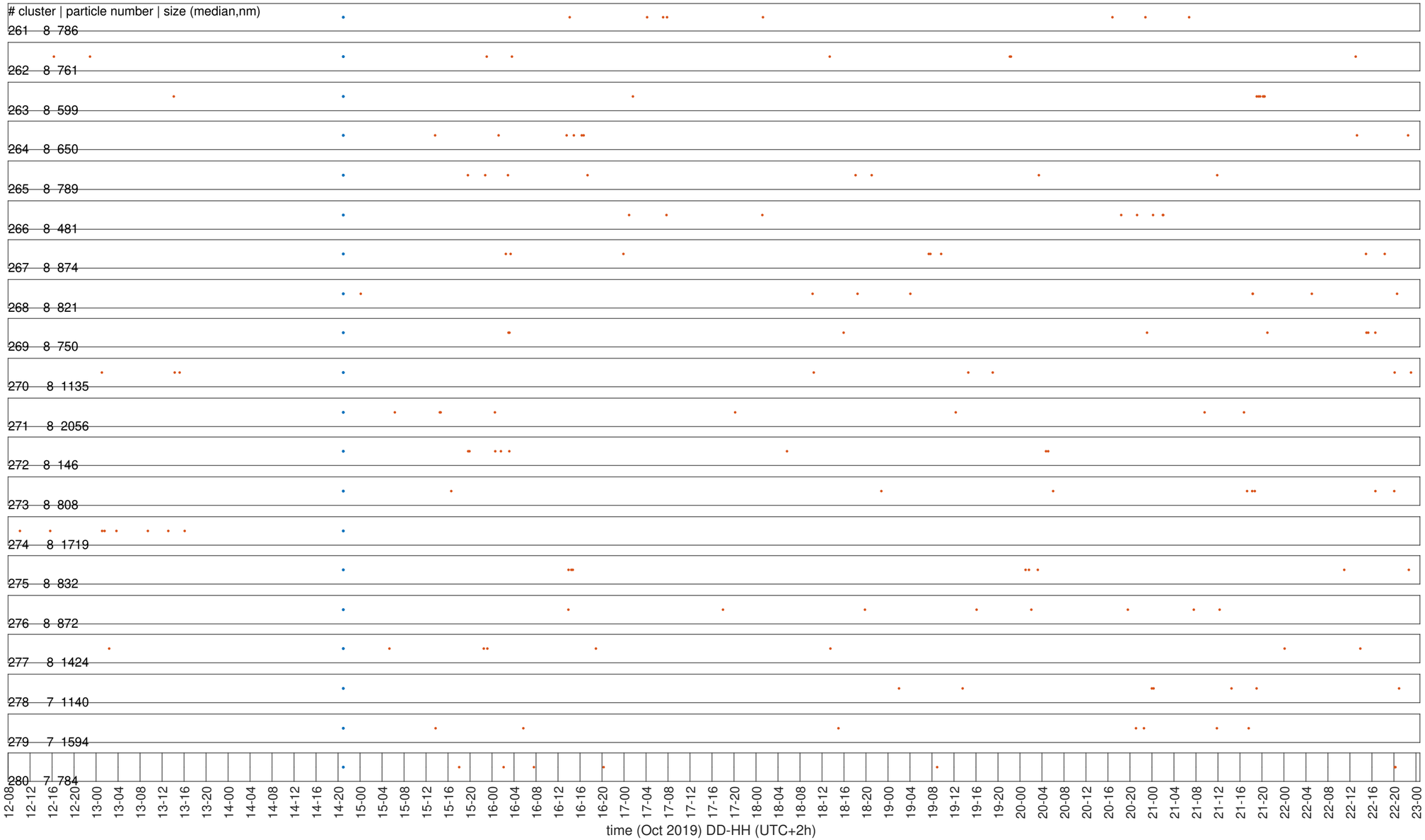

cluster | particle number | size (median,nm)
161 17 1066
162 17 1304
163 17 774
164 17 1705
165 17 639
166 17 803
167 16 817
168 16 875
169 16 1341
170 16 793
171 16 921
172 16 803
173 16 927
174 16 704
175 15 580
176 15 418
177 15 737
178 15 706
179 15 984
180 14 520
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)

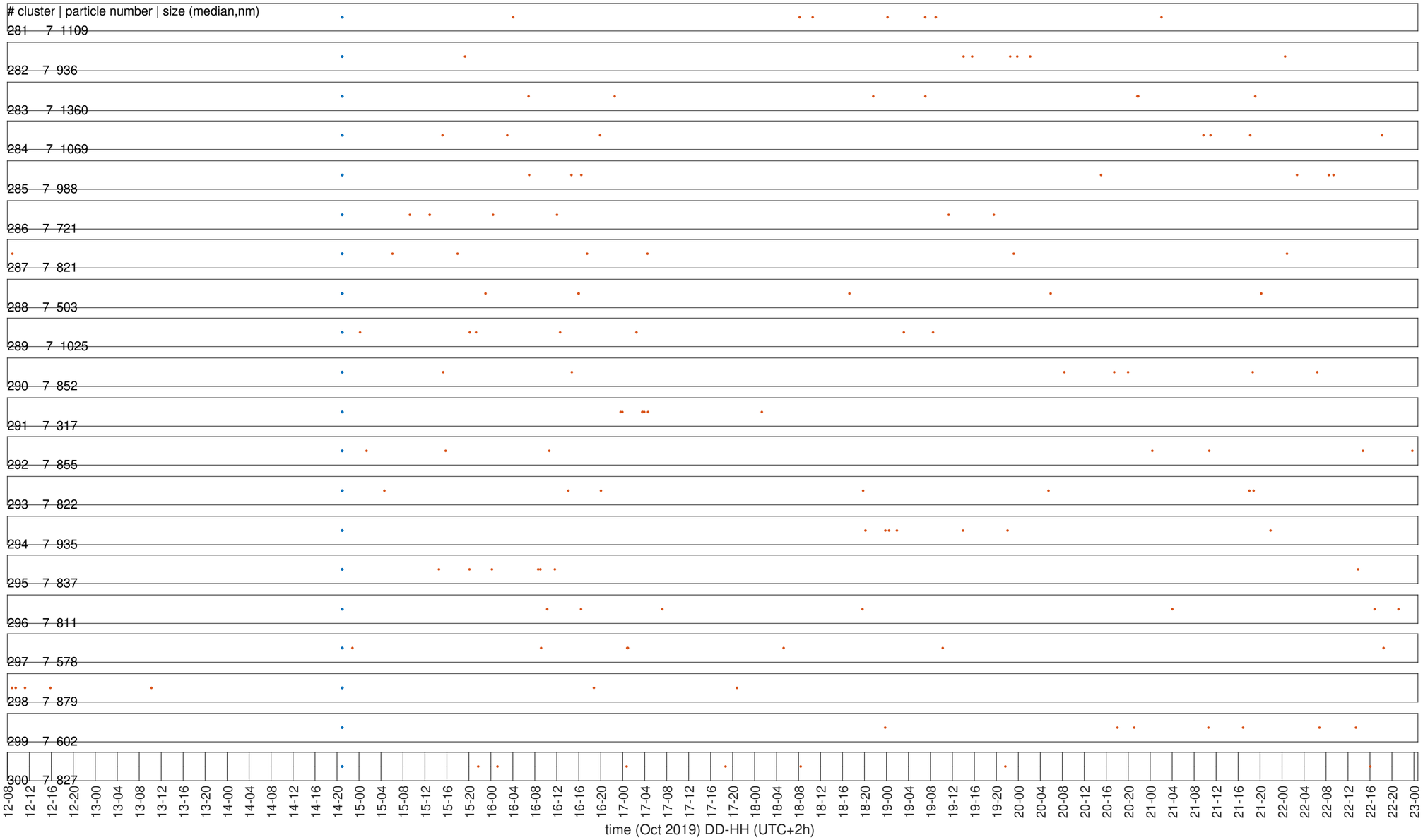

cluster | particle number | size (median,nm)
181 14 705
182 14 743
183 14 989
184 14 1466
185 14 950
186 14 820
187 14 889
188 14 628
189 14 800
190 13 1044
191 13 380
192 13 843
193 13 960
194 13 814
195 13 962
196 13 925
197 13 857
198 12 761
199 12 968
200 12 824
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)
201 12 735
202 12 794
203 12 1005
204 12 793
205 12 944
206 12 801
207 12 849
208 12 863
209 12 819
210 12 901
211 12 699
212 12 902
213 11 902
214 11 820
215 11 1057
216 11 1452
217 11 1378
218 11 891
219 11 1106
220 11 716
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)
221 11 777
222 11 760
223 10 1014
224 10 919
225 10 871
226 10 784
227 10 787
228 10 897
229 10 1085
230 10 734
231 10 1013
232 10 1066
233 10 928
234 10 1198
235 10 973
236 10 934
237 10 827
238 10 1398
239 10 1093
240 9 881
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)
241 9 661
242 9 862
243 9 1123
244 9 769
245 9 1267
246 9 968
247 9 1178
248 9 2054
249 9 654
250 9 334
251 9 1273
252 9 845
253 9 828
254 9 1259
255 8 1804
256 8 982
257 8 1363
258 8 919
259 8 868
260 8 981
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)
261 8 786
262 8 761
263 8 599
264 8 650
265 8 789
266 8 481
267 8 874
268 8 821
269 8 750
270 8 1135
271 8 2056
272 8 146
273 8 808
274 8 1719
275 8 832
276 8 872
277 8 1424
278 7 1140
279 7 1594
280 7 784
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)


cluster | particle number | size (median,nm)
281 7 1109
282 7 936
283 7 1360
284 7 1069
285 7 988
286 7 721
287 7 821
288 7 503
289 7 1025
290 7 852
291 7 317
292 7 855
293 7 822
294 7 935
295 7 837
296 7 811
297 7 578
298 7 879
299 7 602
300 7 827
12-08 12-12 12-16 12-20 13-00 13-04 13-08 13-12 13-16 13-20 14-00 14-04 14-08 14-12 14-16 14-20 15-00 15-04 15-08 15-12 15-16 15-20 16-00 16-04 16-08 16-12 16-16 16-20 17-00 17-04 17-08 17-12 17-16 17-20 18-00 18-04 18-08 18-12 18-16 18-20 19-00 19-04 19-08 19-12 19-16 19-20 20-00 20-04 20-08 20-12 20-16 20-20 21-00 21-04 21-08 21-12 21-16 21-20 22-00 22-04 22-08 22-12 22-16 22-20 23-00
time (Oct 2019) DD-HH (UTC+2h)