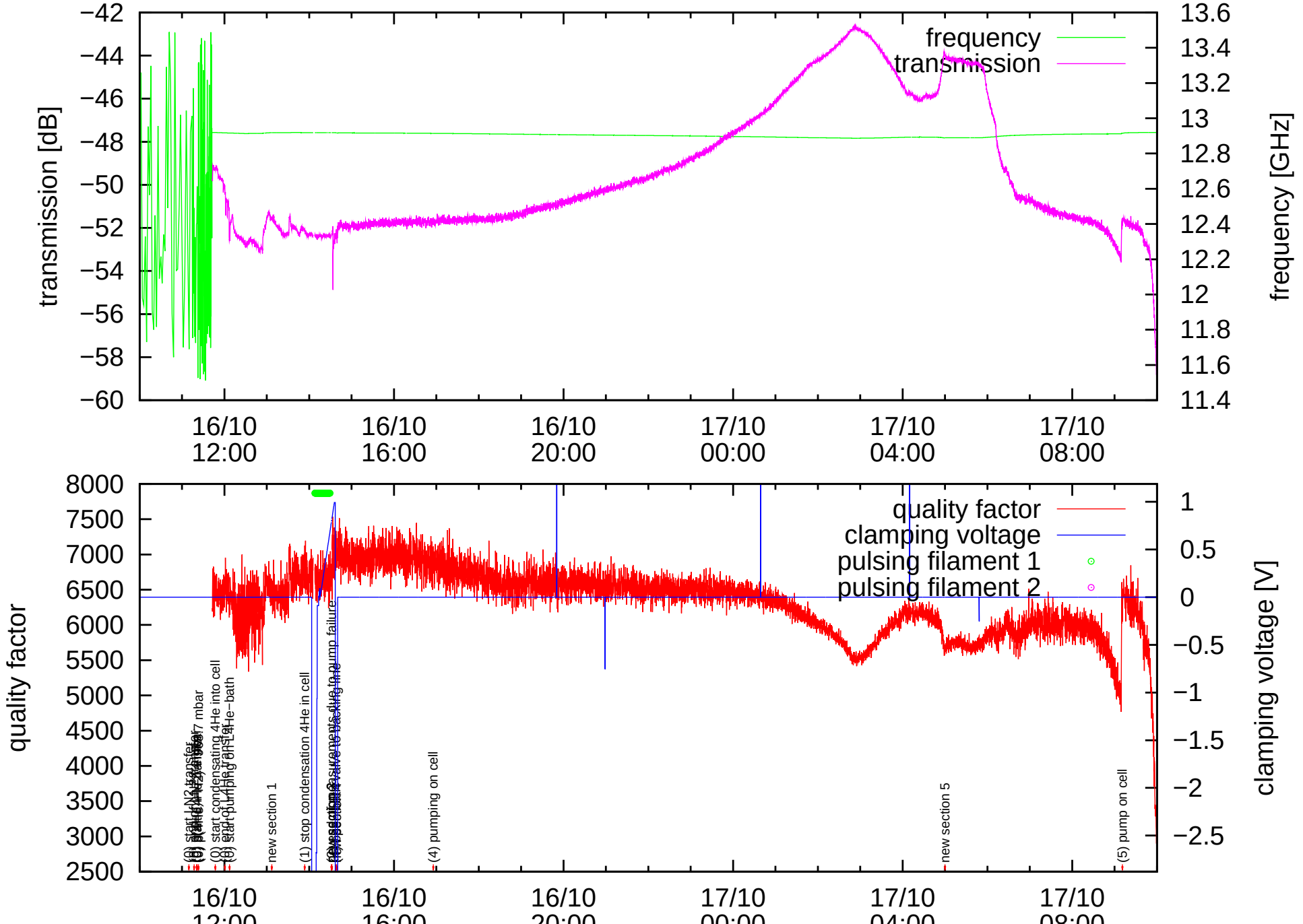
frequency
transmission
transmission [dB]
frequency [GHz]
−42
−44
−46
−48
−50
−52
−54
−56
−58
−60
13.6
13.4
13.2
13
12.8
12.6
12.4
12.2
12
11.8
11.6
11.4
16/10 12:00
16/10 16:00
16/10 20:00
17/10 00:00
17/10 04:00
17/10 08:00
quality factor
clamping voltage
pulsing filament 1
pulsing filament 2
quality factor
clamping voltage [V]
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
(9) start condensating 4He into cell
new section 1
(1) stop condensation 4He in cell
(4) pumping on cell
new section 5
(5) pump on cell
16/10 12:00
16/10 16:00
16/10 20:00
17/10 00:00
17/10 04:00
17/10 08:00