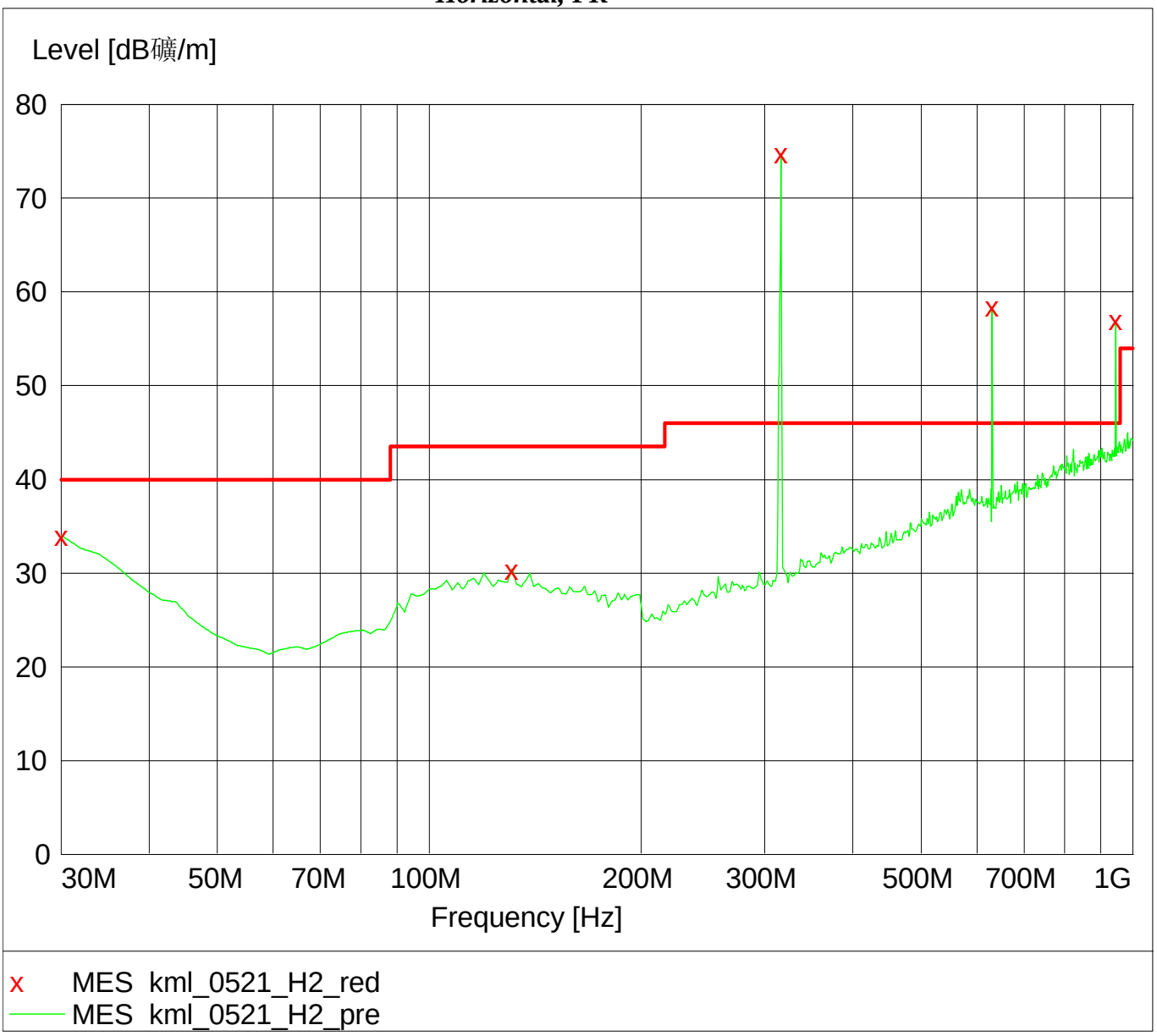
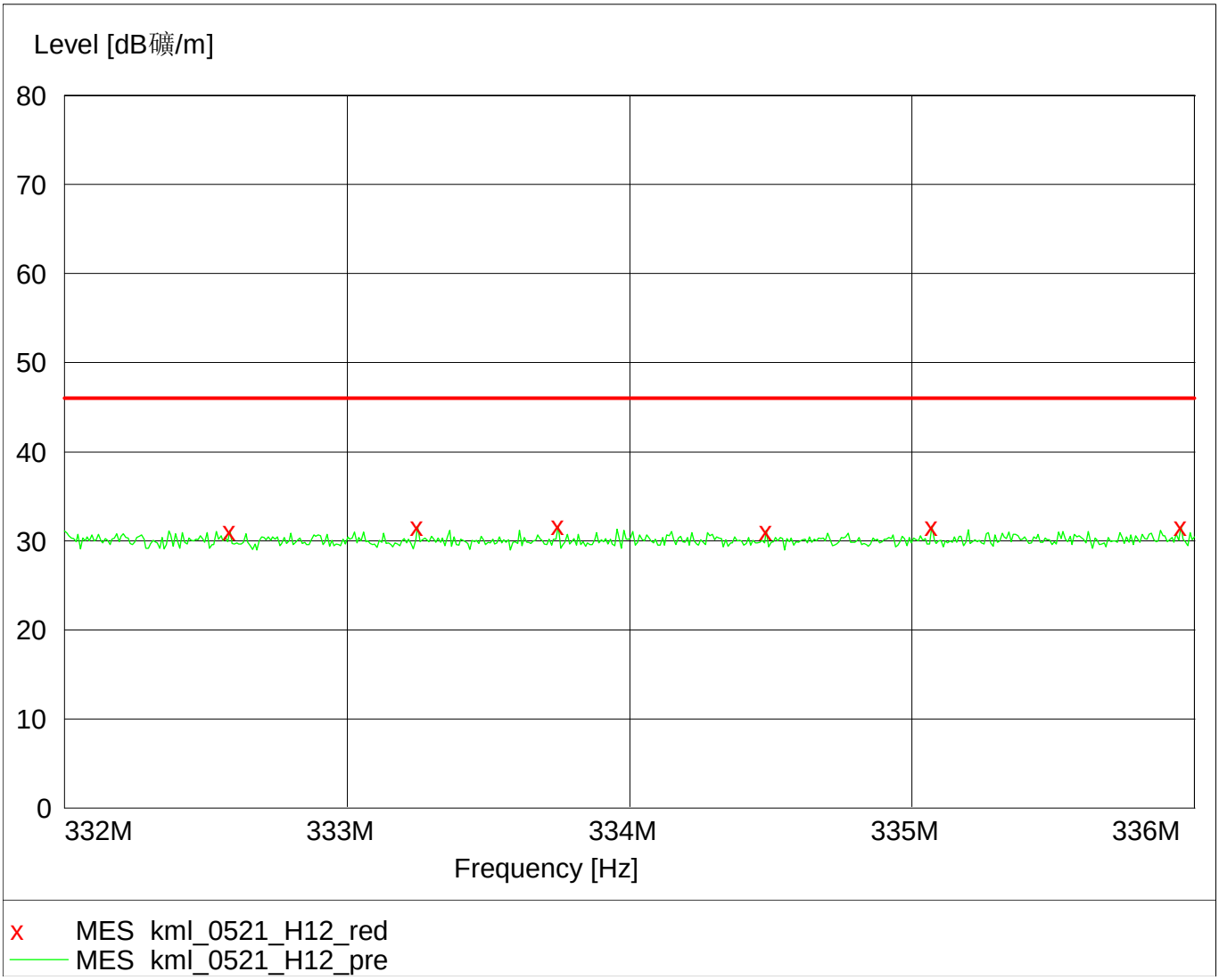
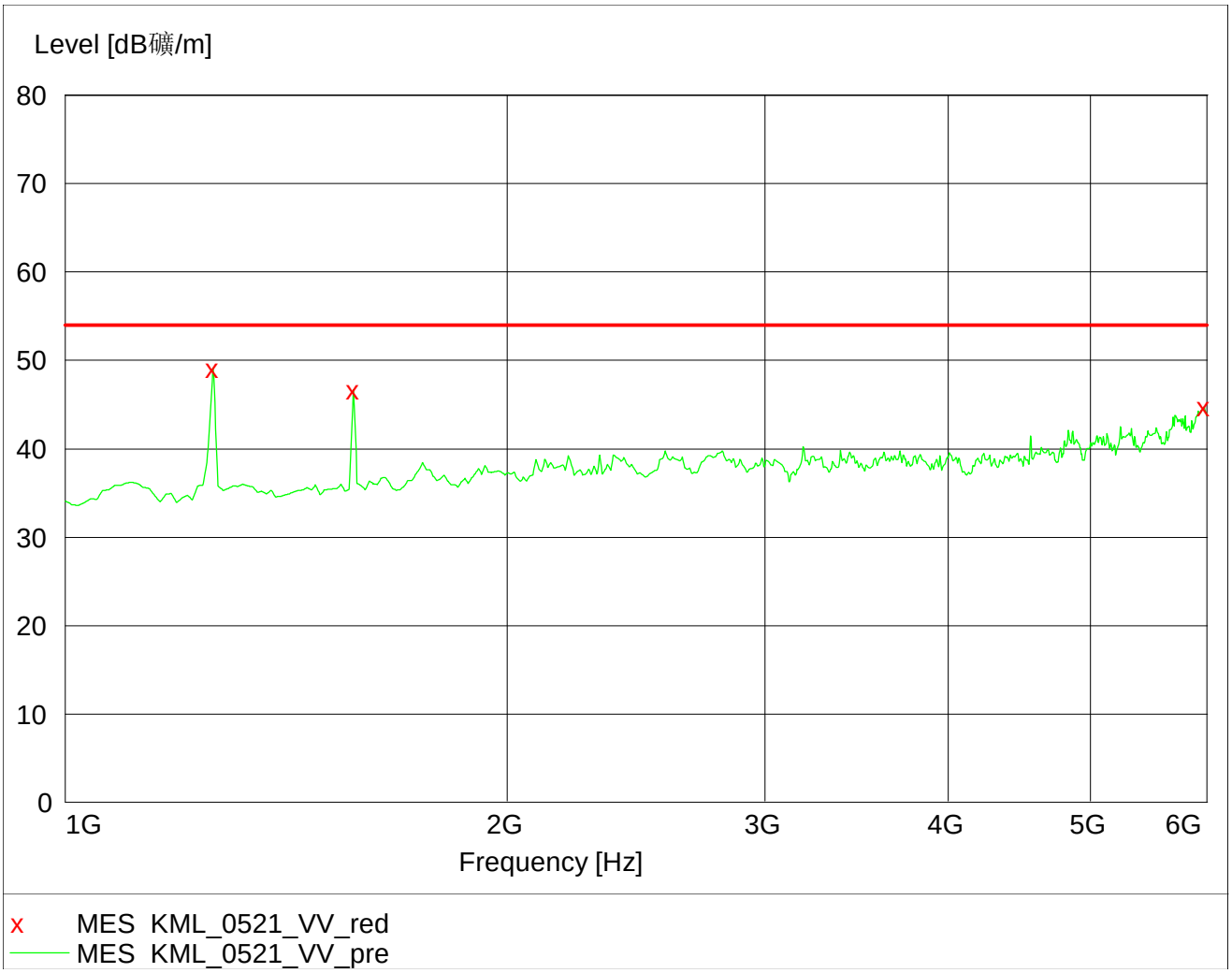
Test Data

1. Fundamental & Spurious Emission & Restrict band radiated emission

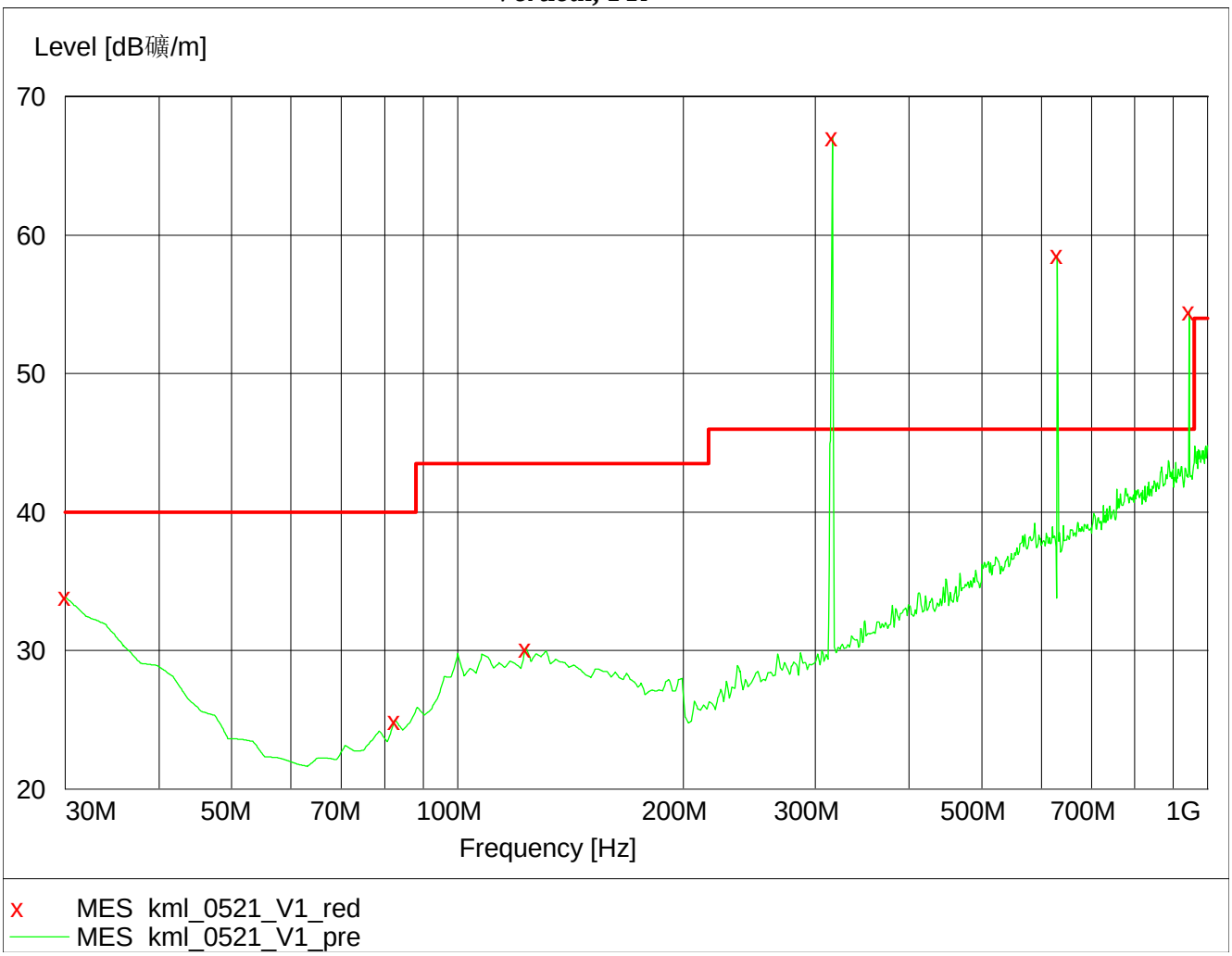
Horizontal, PK

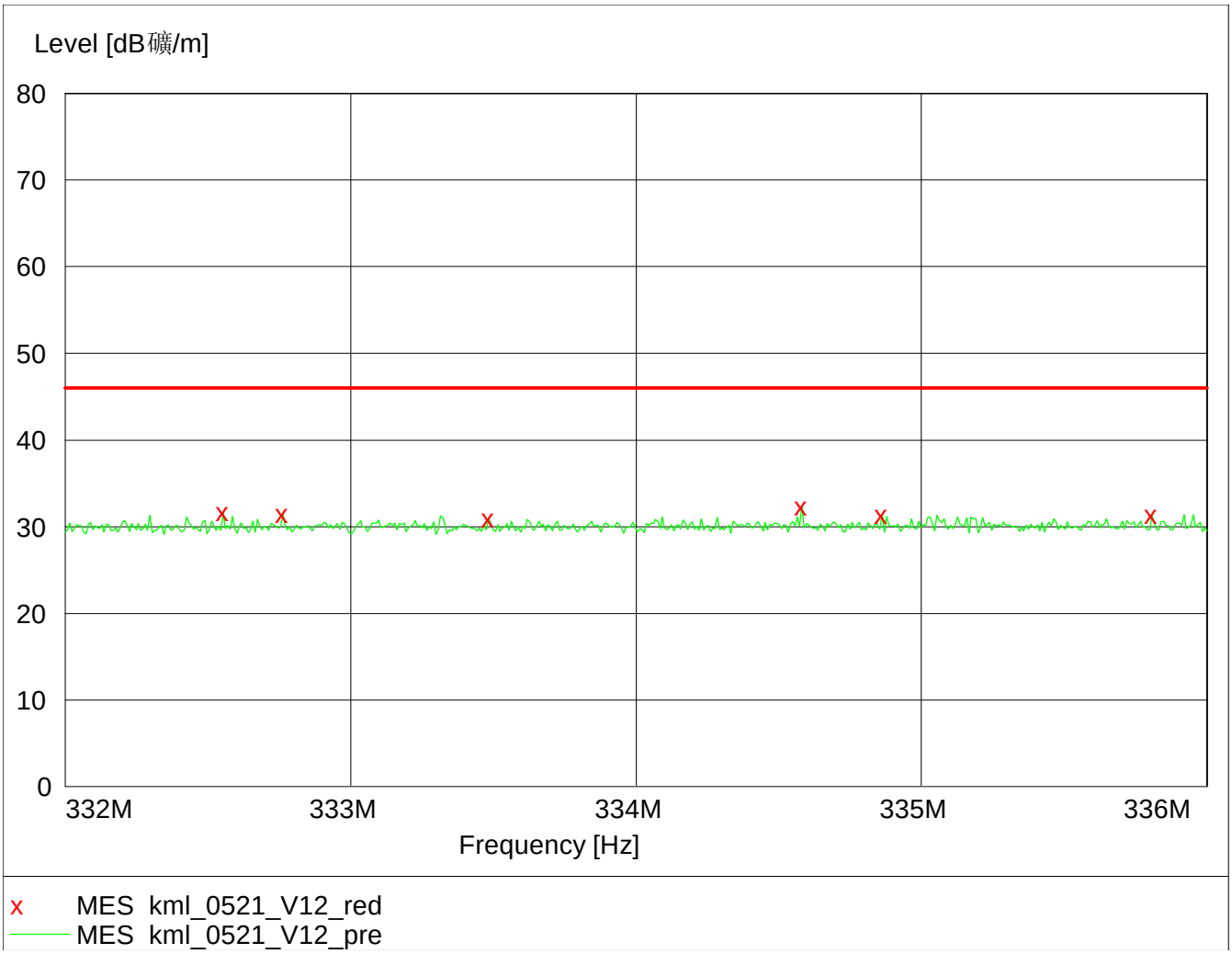


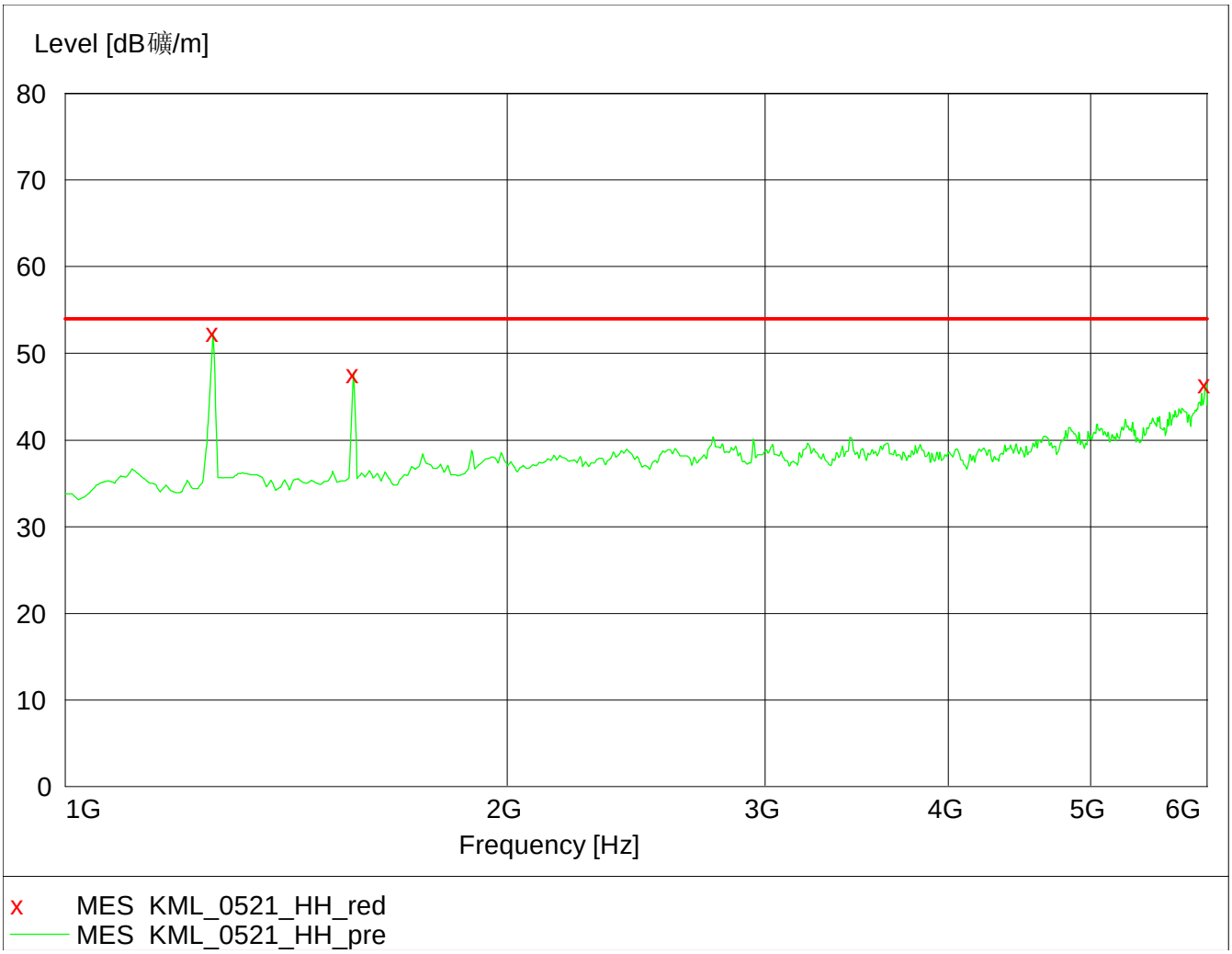

Level [dBµV/m]
80
70
60
50
40
30
20
10
0
332M
333M
334M
335M
336M
Frequency [Hz]
x MES kml_0521_H12_red
MES kml_0521_H12_pre


Level [dB礦/m]
80
70
60
50
40
30
20
10
0
1G
2G
3G
4G
5G
6G
Frequency [Hz]
x MES KML_0521_VV_red
MES KML_0521_VV_pre

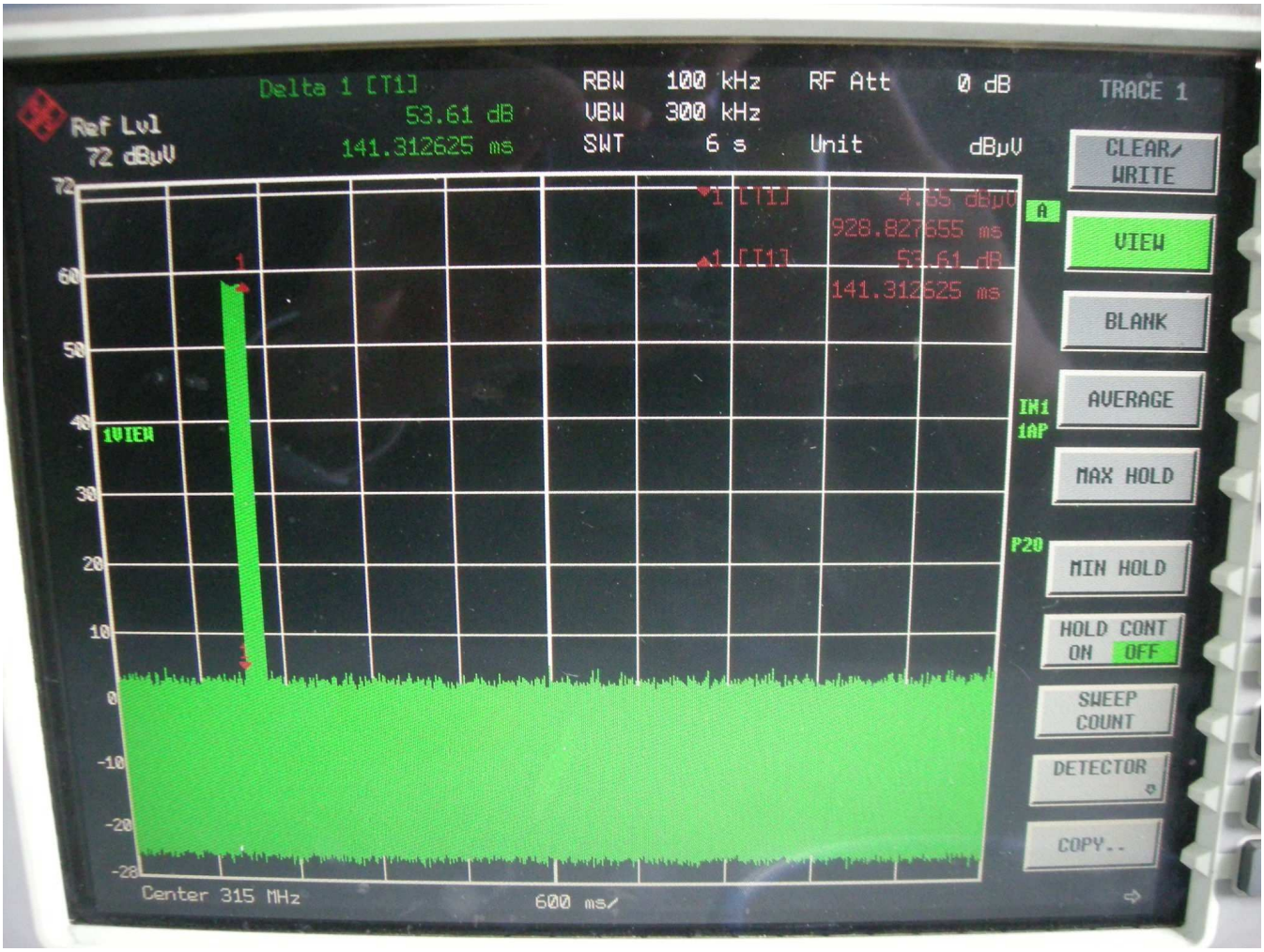
Vertical, PK


Level [dBµV/m]
70
60
50
40
30
20
30M
50M
70M
100M
200M
300M
500M
700M
1G
Frequency [Hz]
x MES kml_0521_V1_red
MES kml_0521_V1_pre


Level [dB礦/m]
80
70
60
50
40
30
20
10
0
332M
333M
334M
335M
336M
Frequency [Hz]
x MES kml_0521_V12_red
MES kml_0521_V12_pre

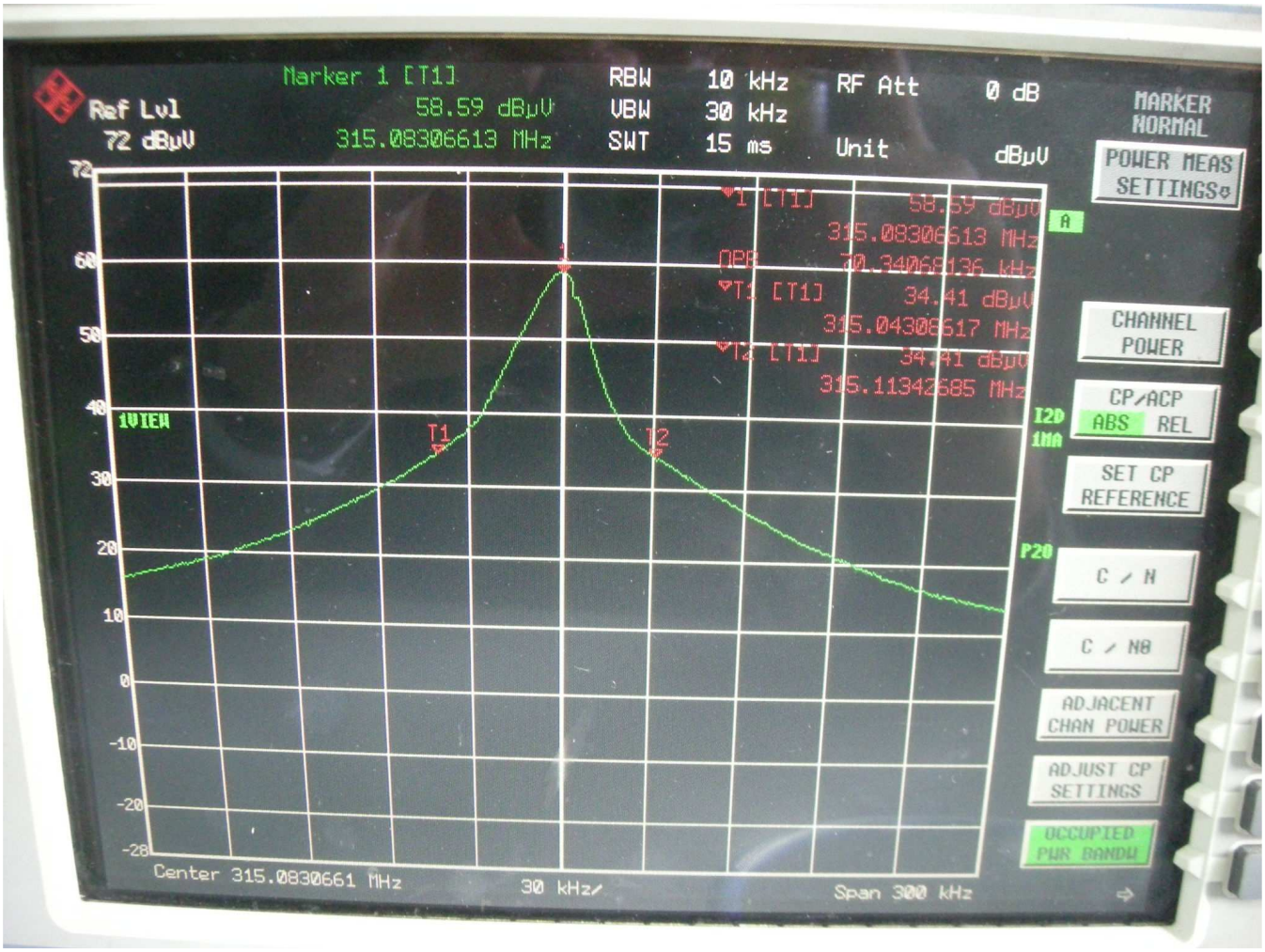

Level [dB礦/m]
80
70
60
50
40
30
20
10
0
1G
2G
3G
4G
5G
6G
Frequency [Hz]
x MES KML_0521_HH_red
MES KML_0521_HH_pre

2. Deactivating time



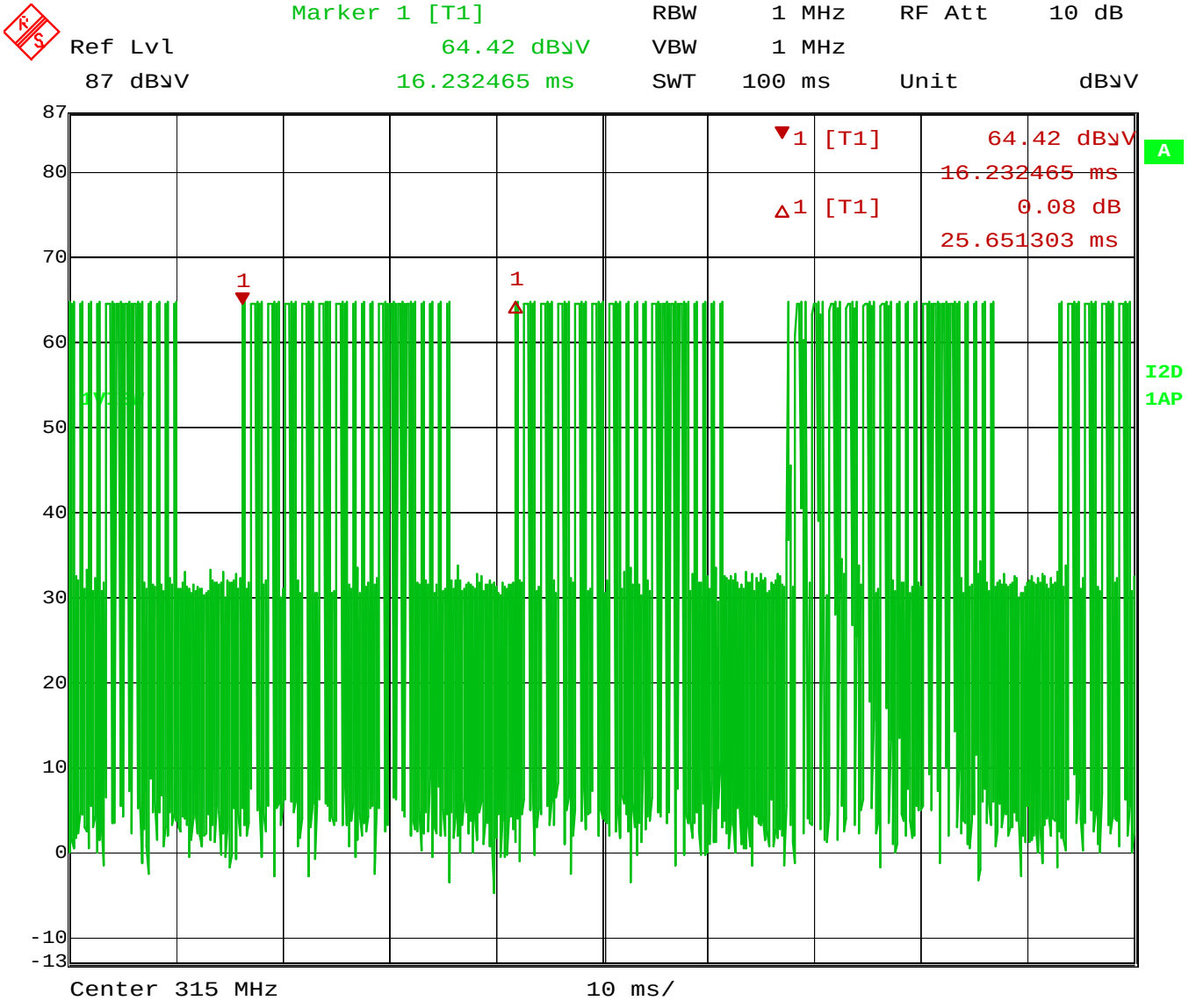
3. Emission Bandwidth

4. Occupied Bandwidth

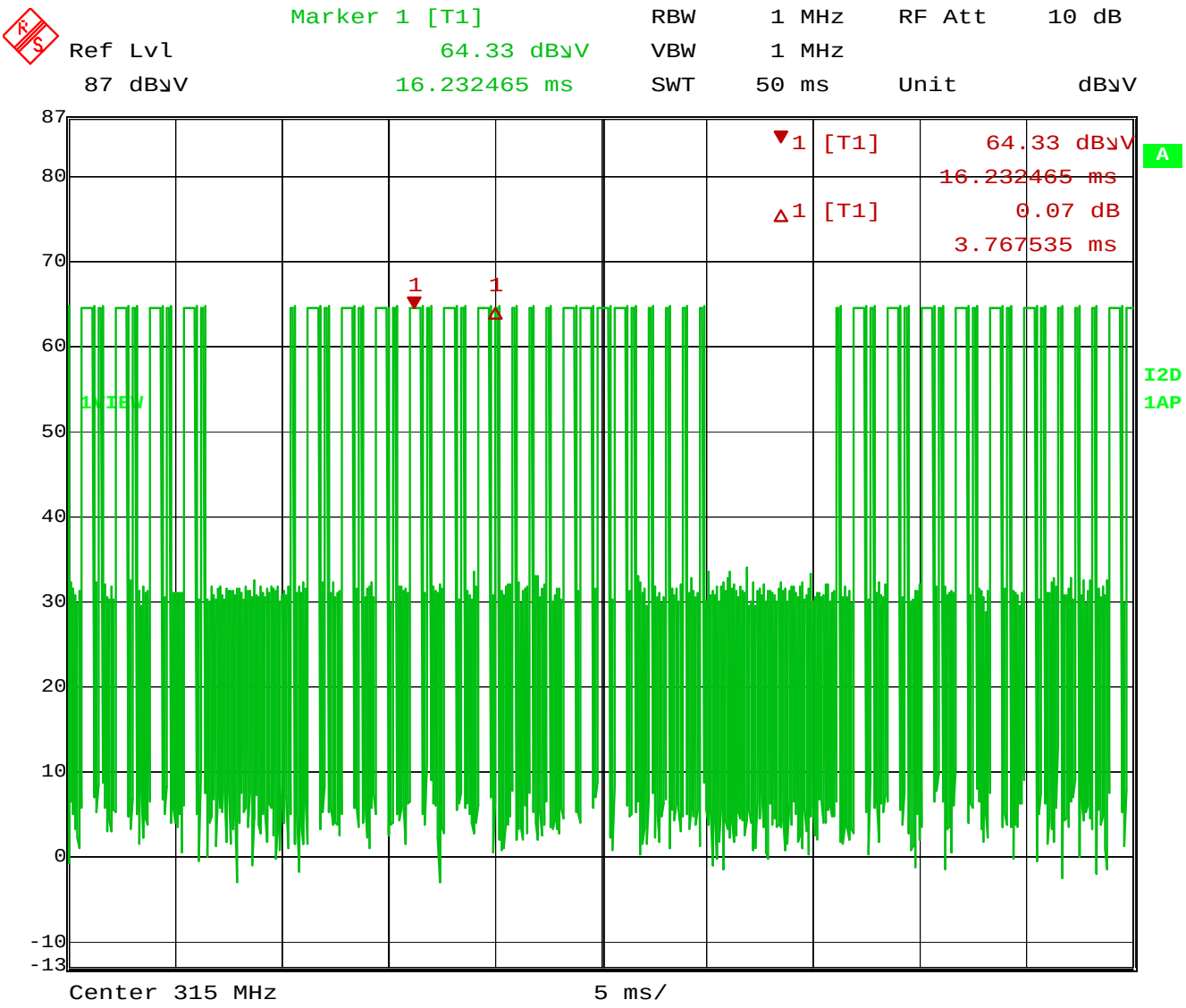


5. Duty Cycle

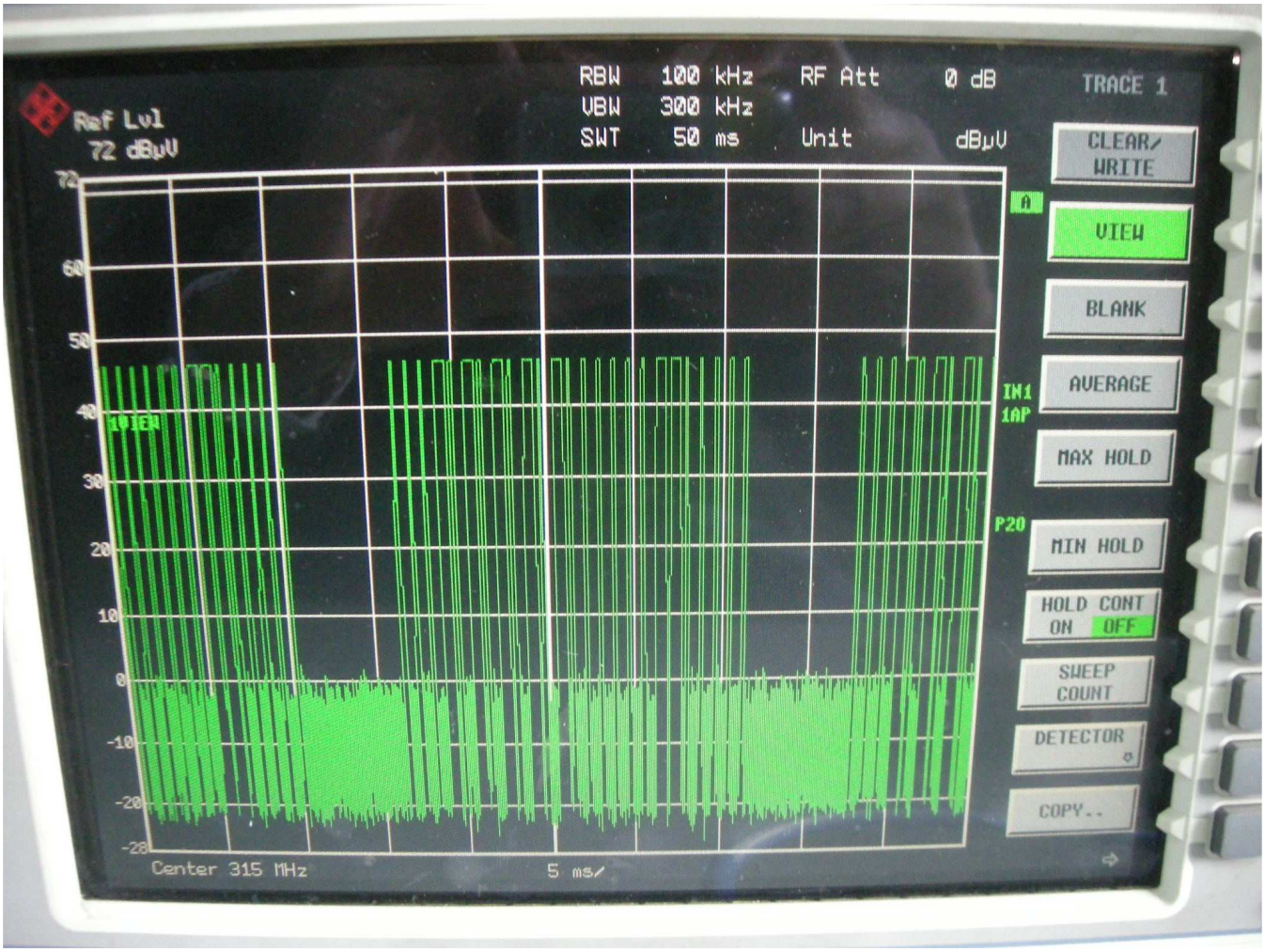
Pulse Train of “On” key



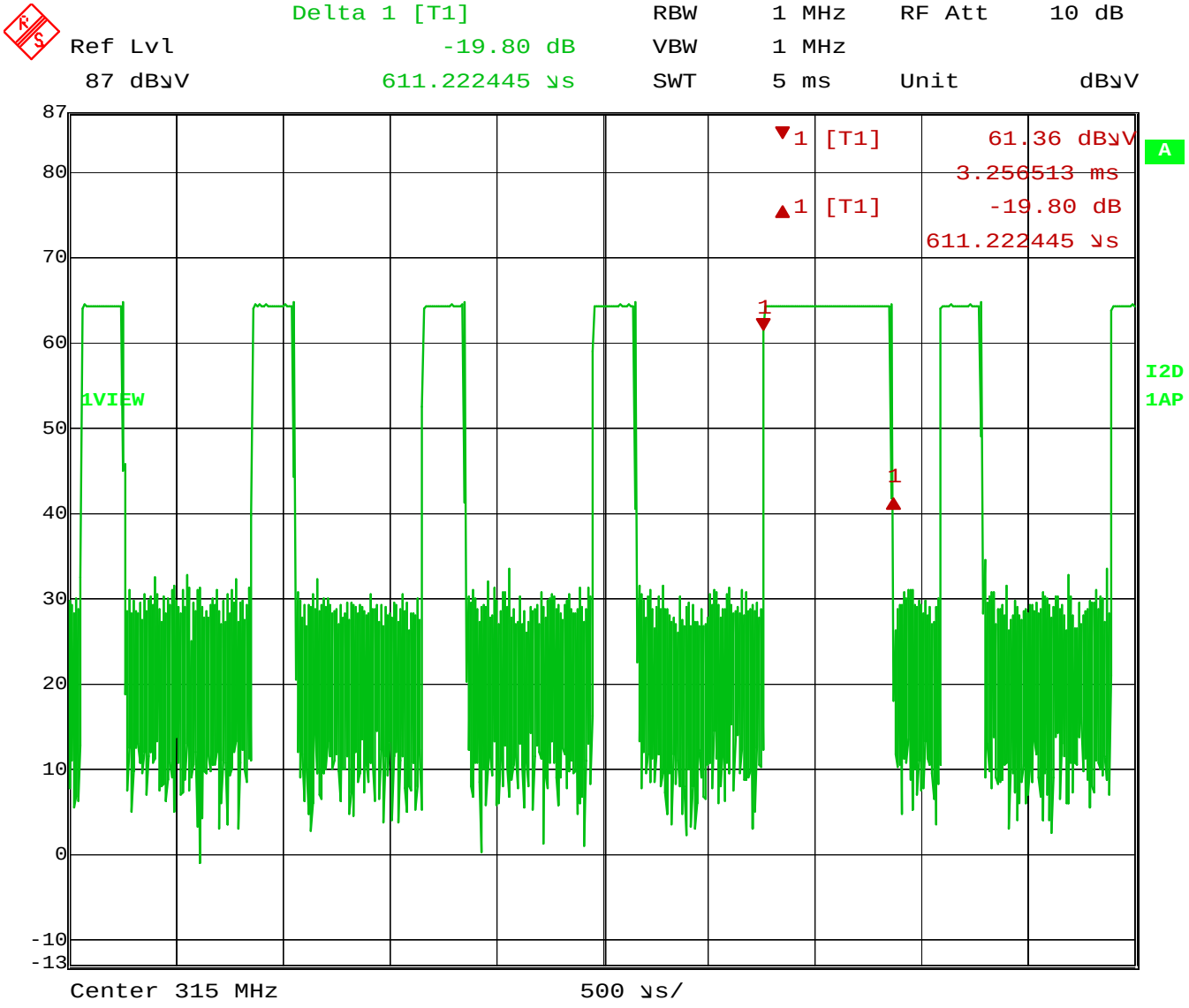
Date: 6.MAY.2010 21:48:03


Marker 1 [T1]
RBW 1 MHz
RF Att 10 dB
Ref Lvl
64.33 dBµV
VBW 1 MHz
87 dBµV
16.232465 ms
SWT 50 ms
Unit dBµV
1 [T1]
64.33 dBµV
16.232465 ms
Δ1 [T1]
0.07 dB
3.767535 ms
A
I2D
1AP
1VIEW
87
80
70
60
50
40
30
20
10
0
-10
-13
Center 315 MHz
5 ms/
Date: 6.MAY.2010 21:49:03

Pulse Train of “Off” key

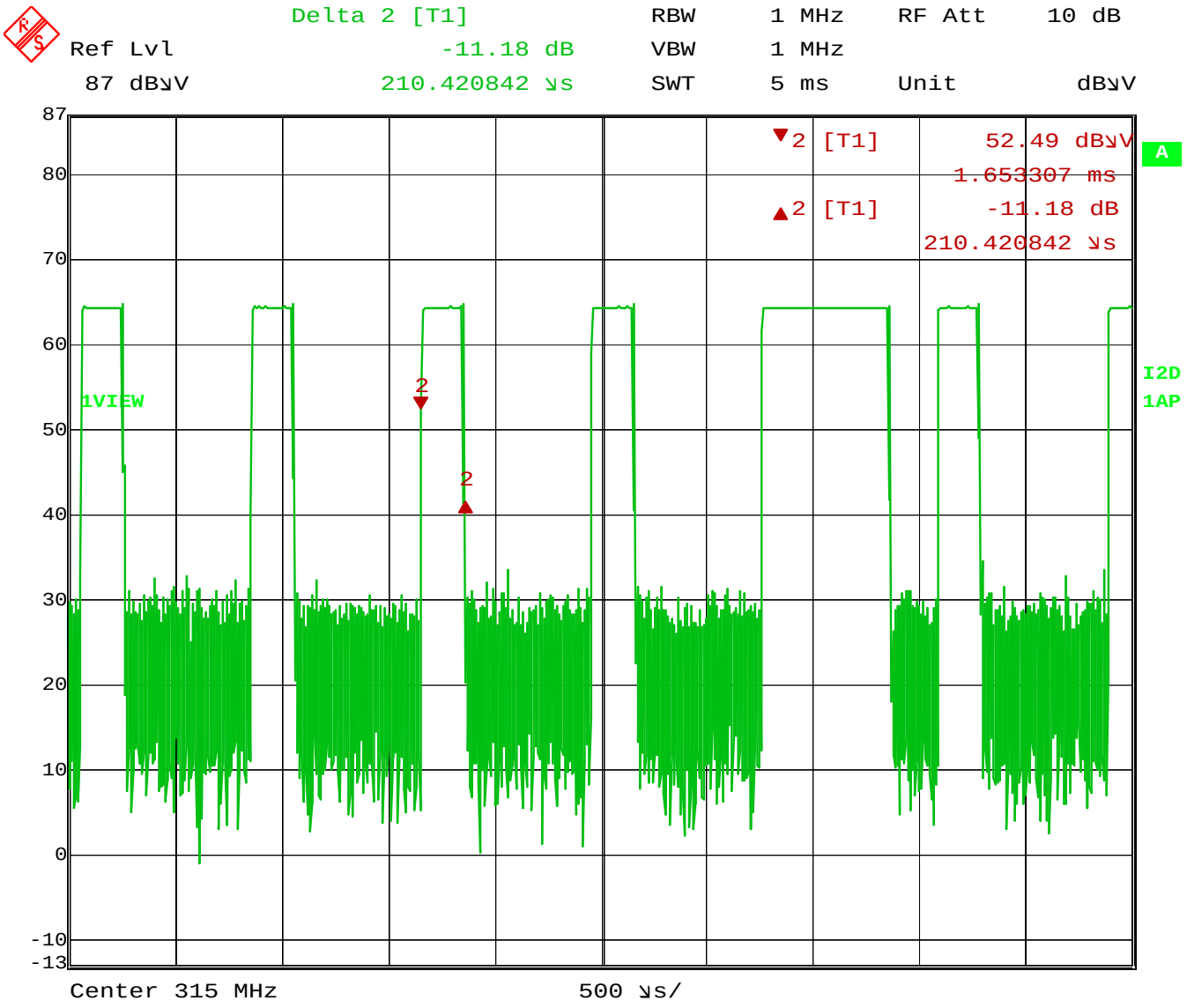

RBW 100 kHz
VBW 300 kHz
SWT 50 ms
RF Att 0 dB
Unit dBµV
TRACE 1
Ref Lvl
72 dBµV
72
60
50
40
30
20
10
0
-10
-20
-28
1MIEW
Center 315 MHz
5 ms/
CLEAR/ WRITE
VIEW
BLANK
AVERAGE
IM1
1AP
MAX HOLD
P20
MIN HOLD
HOLD CONT
ON OFF
SWEEP COUNT
DETECTOR
COPY..

Long Pulse



Date: 6.MAY.2010 21:50:43

Short Pulse



The Duty cycle of “on” key = (10 * 0.61 + 15 * 0.21) / 25.65 = 0.361
The Duty cycle of “off” key = (7 * 0.61 + 18 * 0.21) / 26.25 = 0.307

As a result, the duty cycle of 0.36 is taken into calculation.