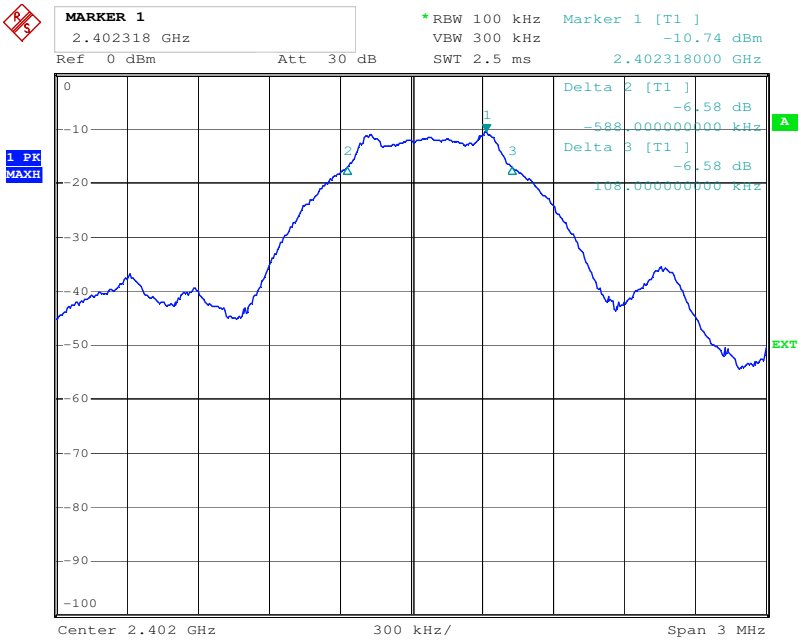
# Appendix 1

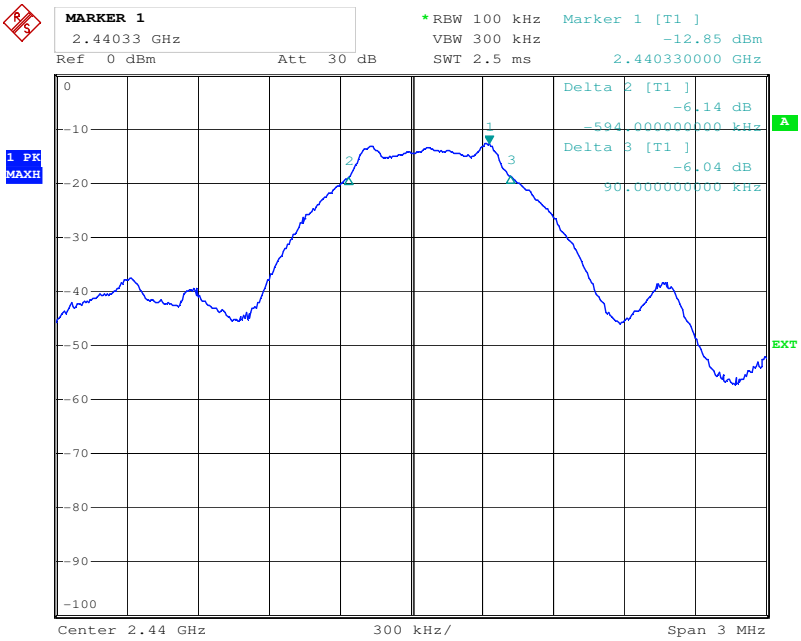
# Test Results

# 6 dB Bandwidth Measurement

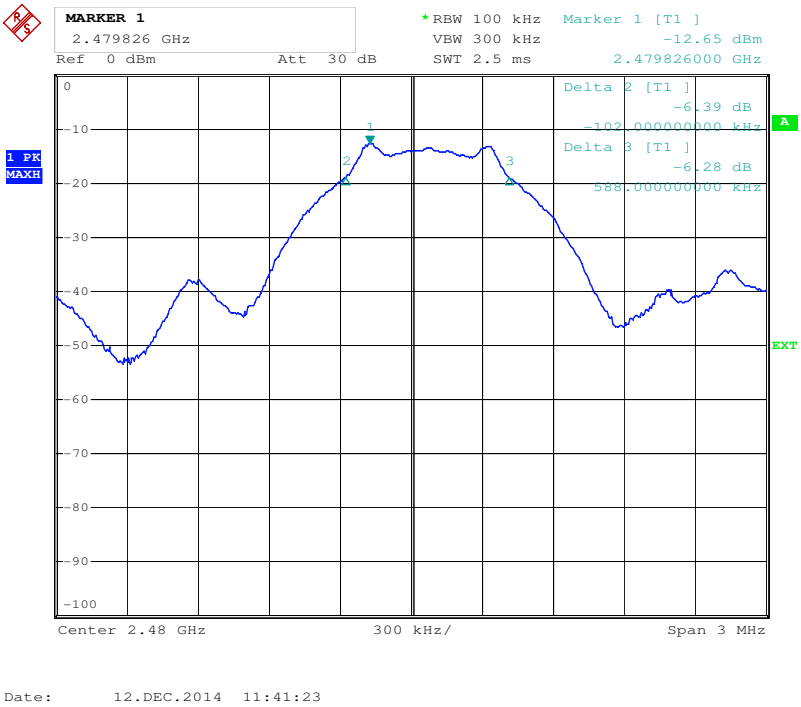
Tx frequency: 2402MHz




Tx frequency: 2440MHz



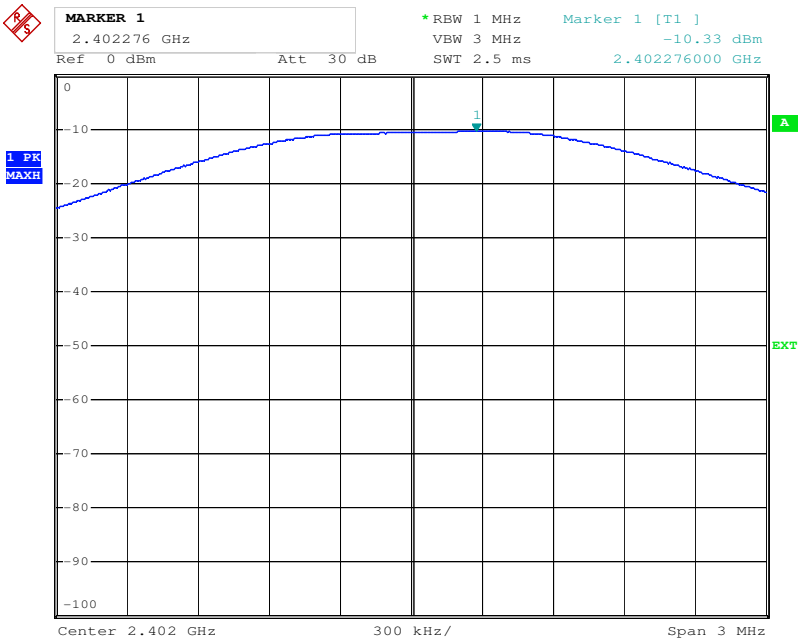
Tx frequency: 2480MHz



# Peak Output Power

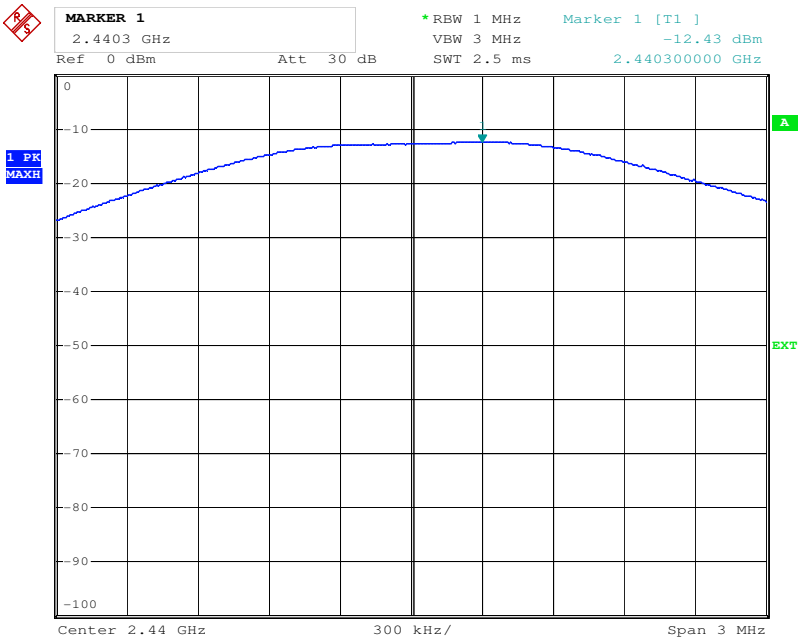
## BLE Mode

Tx frequency: 2402MHz



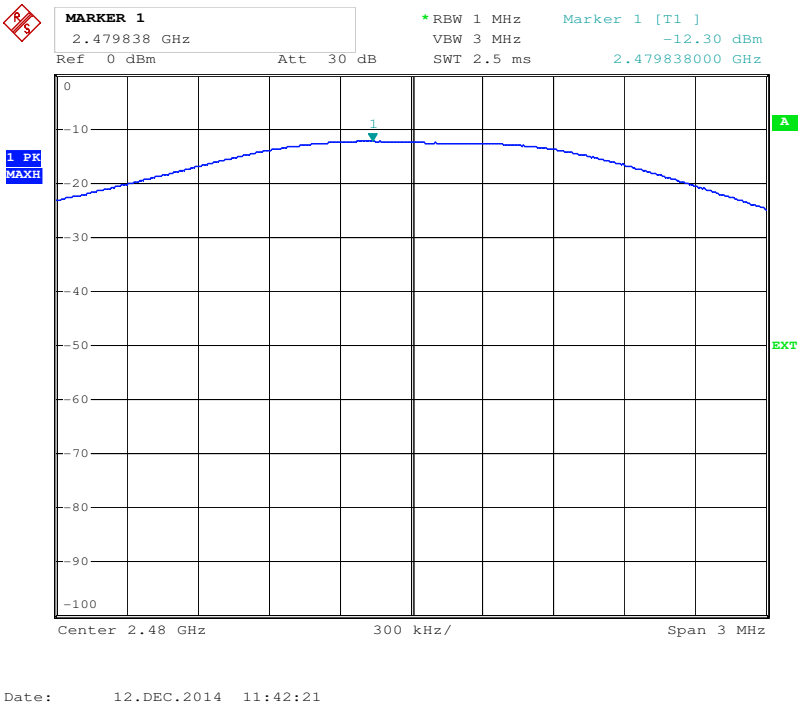

Date: 12.DEC.2014 11:43:54

Tx frequency: 2440MHz




Date: 12.DEC.2014 11:43:12

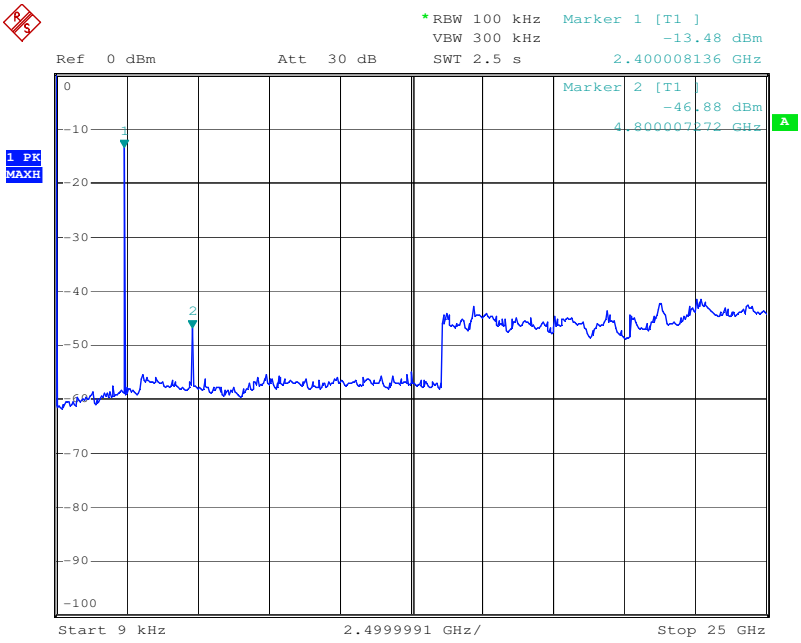
Tx frequency: 2480MHz



# Spurious Conducted Emissions

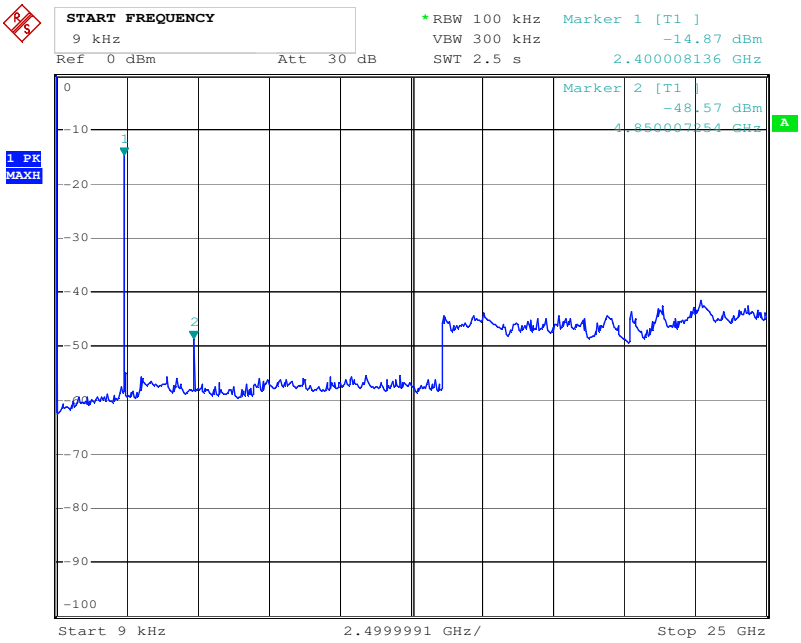
## BLE mode

Tx frequency: 2402MHz



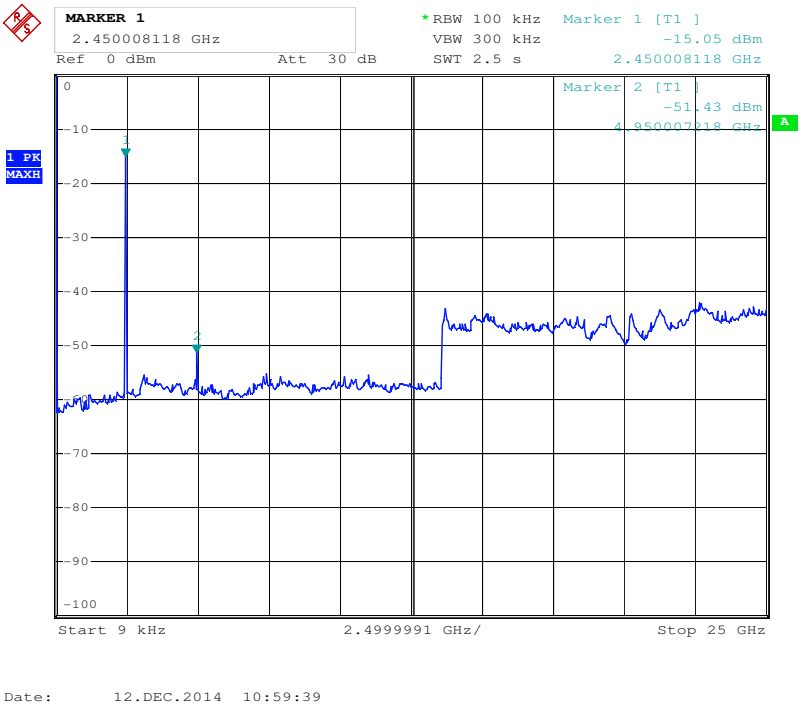

Date: 12.DEC.2014 10:56:47

Tx frequency: 2440MHz




Date: 12.DEC.2014 10:58:24

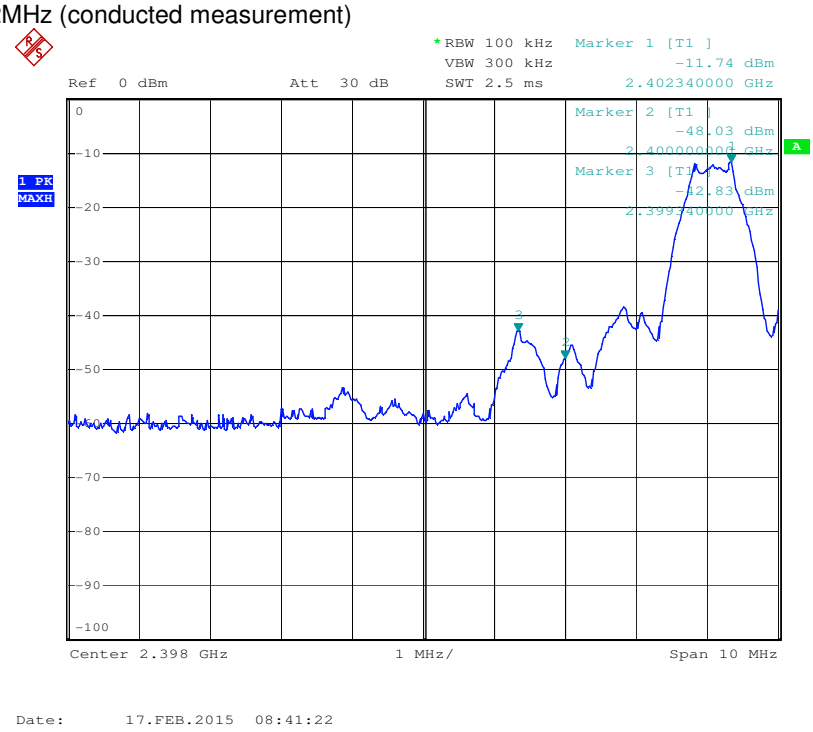
Tx frequency: 2480MHz



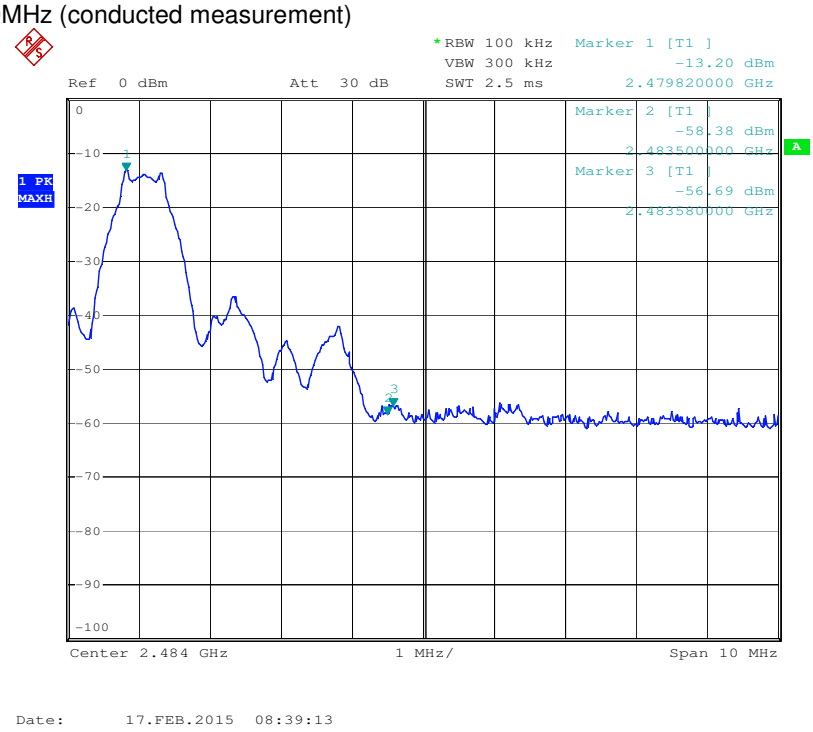
# Band Edge Compliance

## BLE mode

Tx frequency: 2402MHz (conducted measurement)



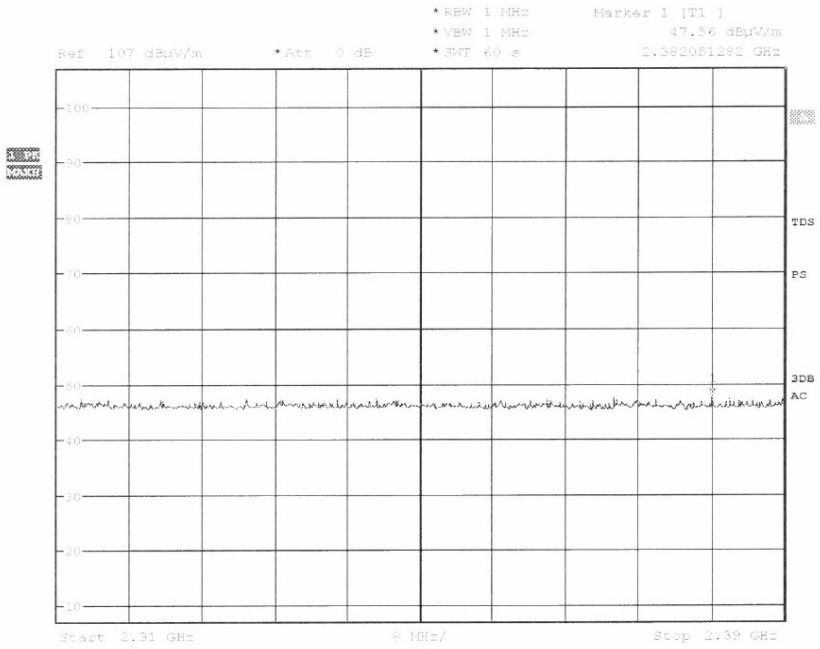

Tx frequency: 2480MHz (conducted measurement)



# Restricted Bands Next to The Band Edge

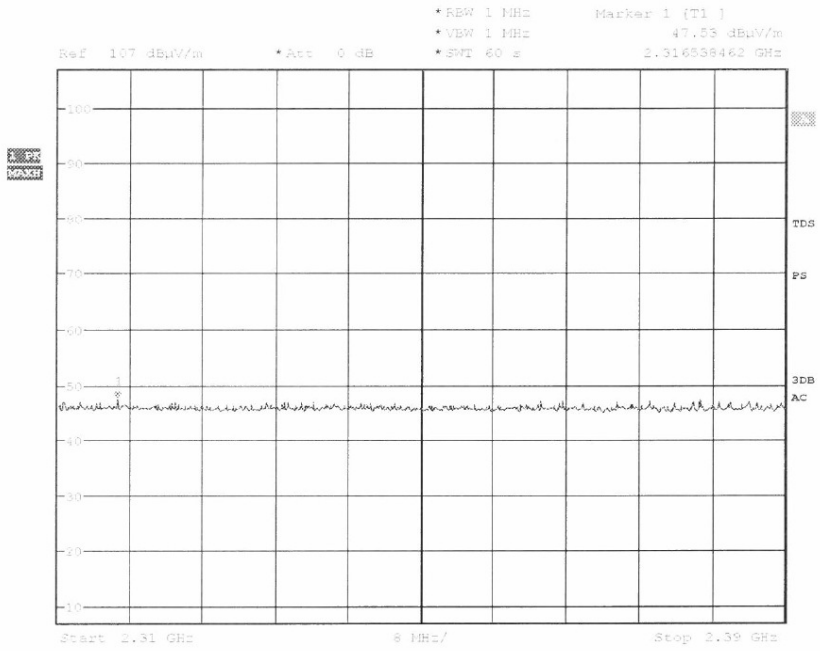
**BLE mode**

Tx frequency: 2402MHz (radiated measurement)




BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2404) CH.0/ VERT.
Date: 20.NOV.2014 16:56:33

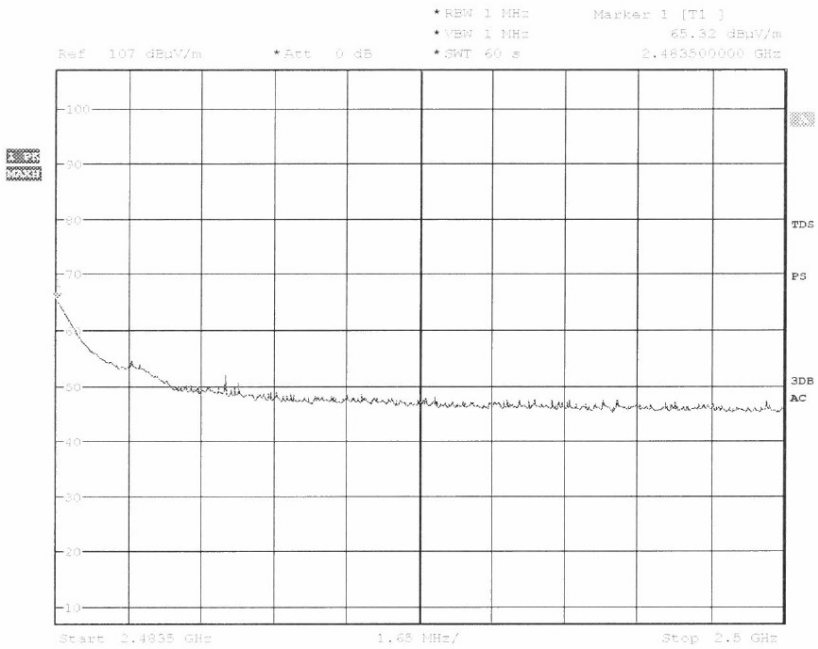
Vertical Polarization




BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2404) CH.0/ HORI.
Date: 20.NOV.2014 16:54:22

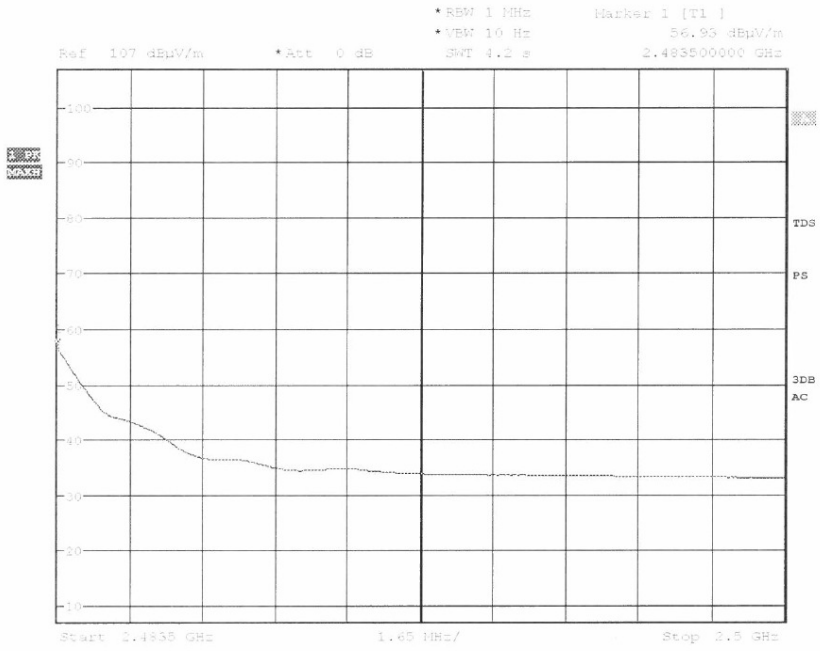
Horizontal Polarization

Tx frequency: 2480MHz (radiated measurement)




BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2480) CH.39/ VERT
Date: 20.NOV.2014 17:23:51

Vertical Polarization

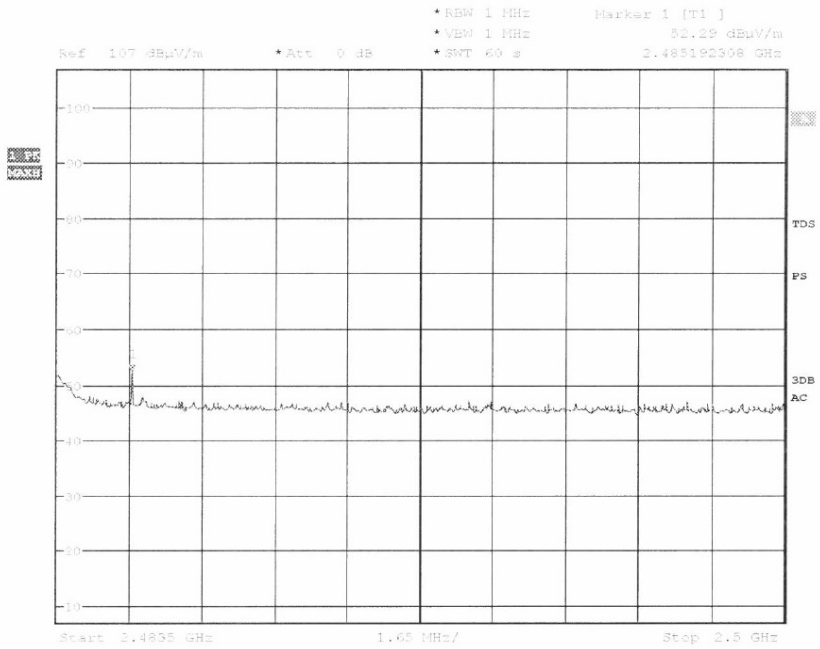



BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2480) CH.39/ VERT
Date: 20.NOV.2014 17:24:01

Vertical Polarization

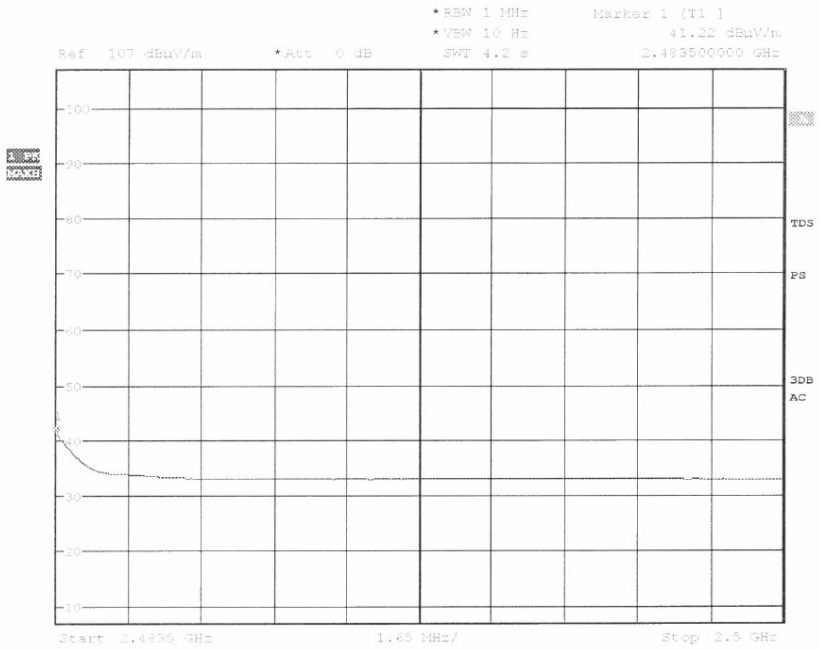
By using Marker-delta method, the reading of bandedge 2480MHz transmitting is
-56.69 – (-13.20) = -43.49dB down from the fundamental 2480MHz.

The field strength of fundamental 2480MHz measured at 3 meters in radiated emission vertical is 90.76 dBµV/m.
Hence the field strength at bandedge = 90.76 – 43.49 = 47.27 dBµV/m, which can meet the requirement of
54 dBµV/m at bandedge measured at 3 meters.




BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2480) CH.39/ HORI
Date: 20.NOV.2014 17:44:33

Horizontal Polarization

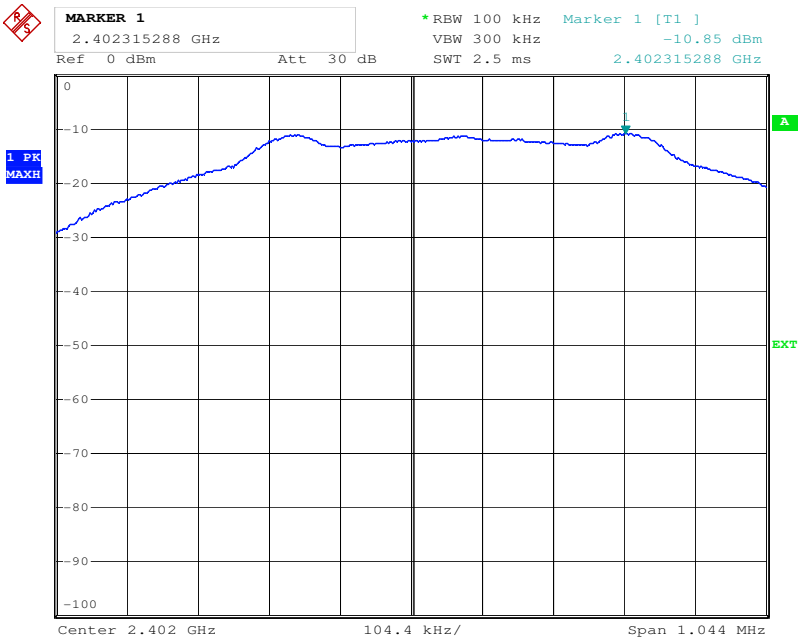



BLUEKEY/ BLUETOOTH REMOTE/ POWERLOUVRE/ TX(2480) CH.39/ HORI
Date: 20.NOV.2014 17:44:48

Horizontal Polarization

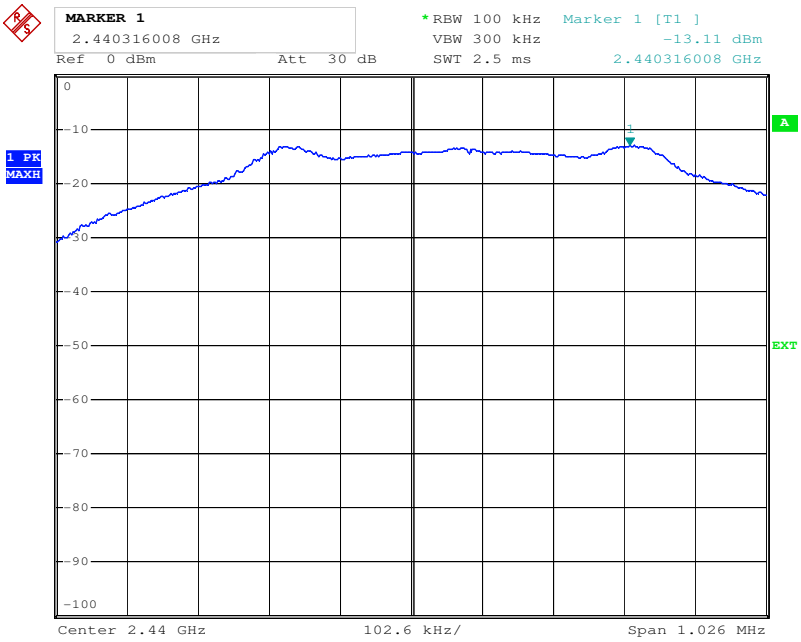
# Power Spectral Density

Tx frequency: 2402MHz



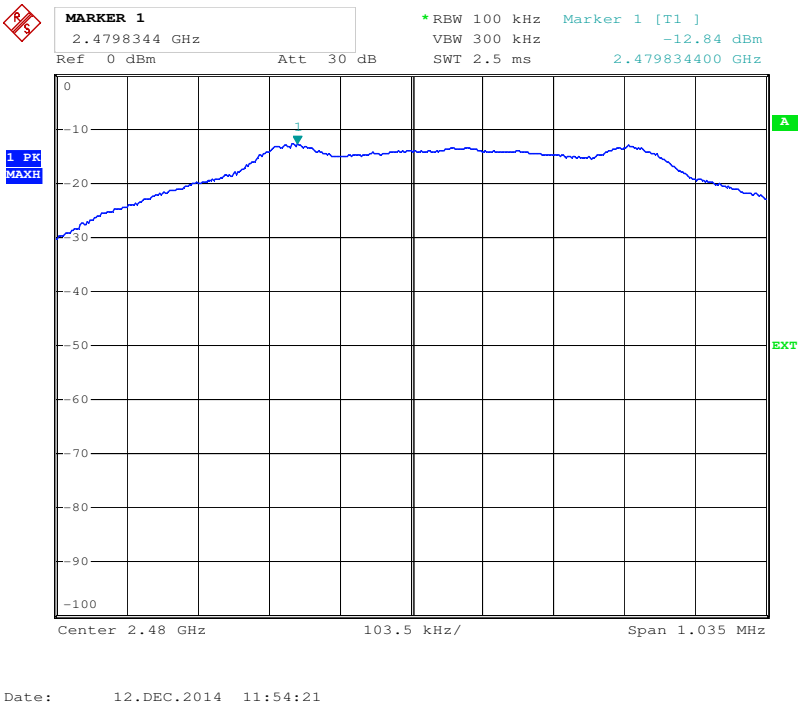

Date: 12.DEC.2014 11:52:18

Tx frequency: 2440MHz



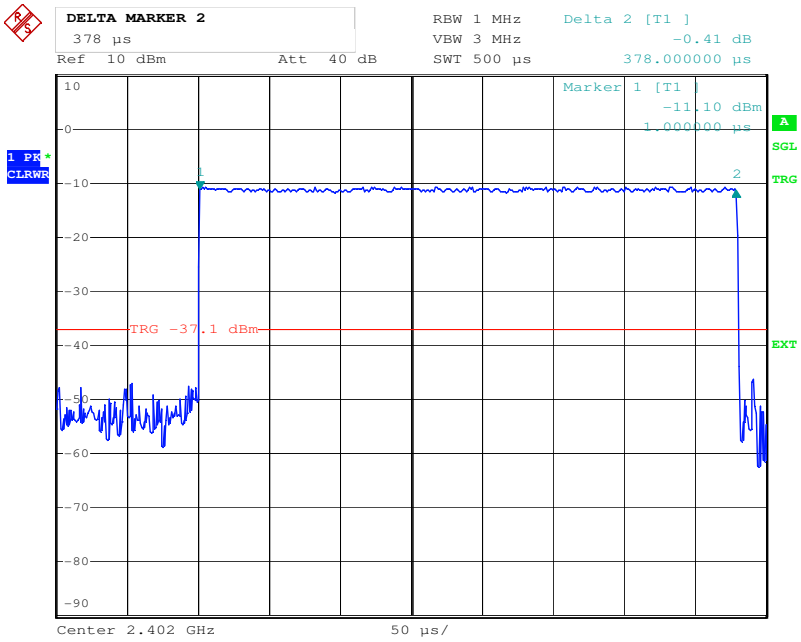

Date: 12.DEC.2014 11:53:22

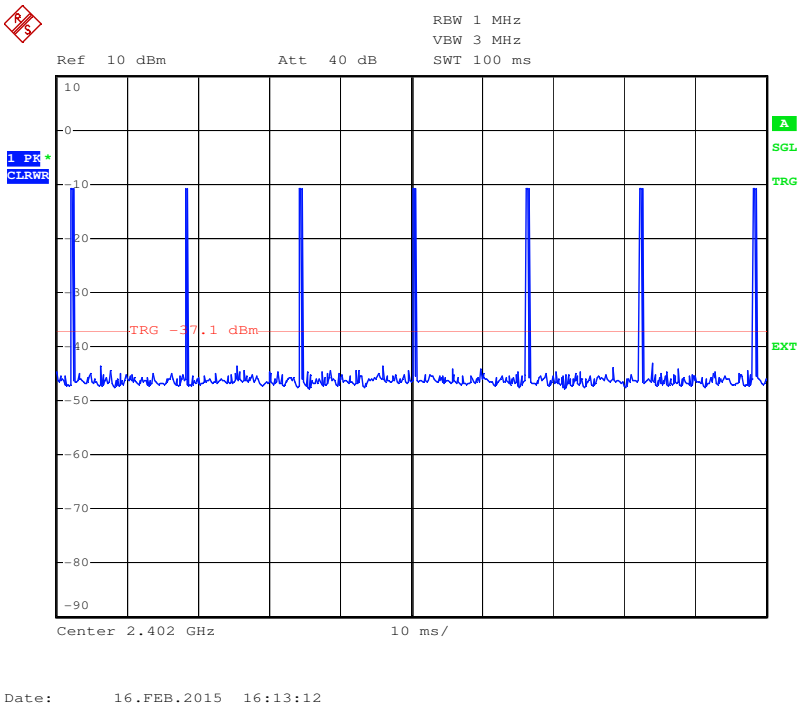
Tx frequency: 2480MHz



# Duty cycle correction factor

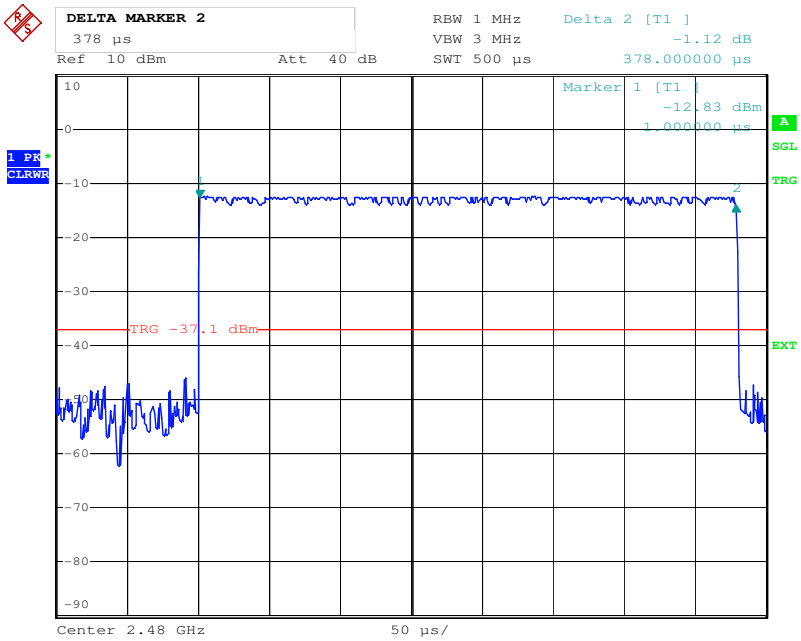
Tx mode: transmission burst in channel 2402MHz



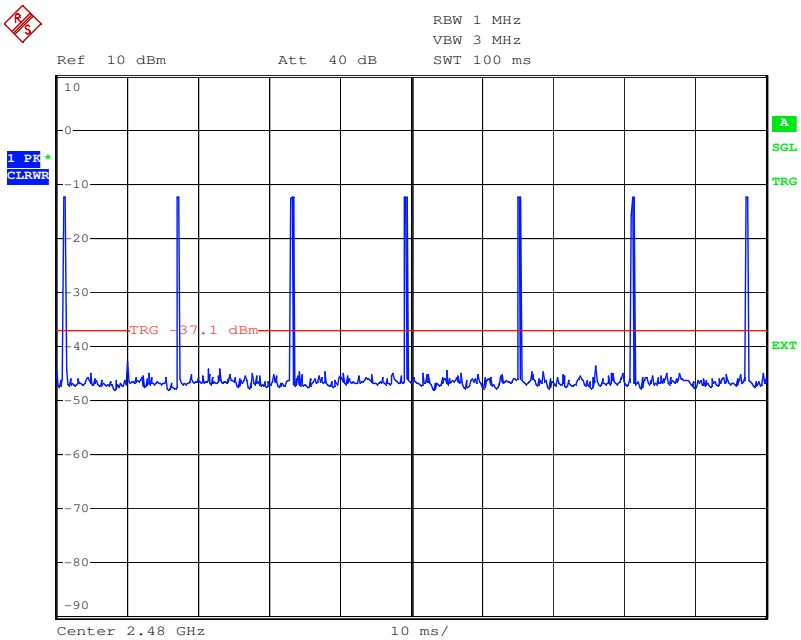




There are 7 pulses were found in 100ms time.

Tx mode: transmission burst in channel 2480MHz




Date: 16.FEB.2015 16:18:20




Date: 16.FEB.2015 16:20:23

There are 7 pulses were found in 100ms time.