

Annex E - 15.209

[Naming Convention]

Channel (Low, Mid, High)_Frequency (MHz)_ Bandwidth (10MHz)_Measurement (15.209)_Frequency Range (Upper Band Edge, Lower Band Edge)_Type (Peak, Avg)_Port (1, 2)

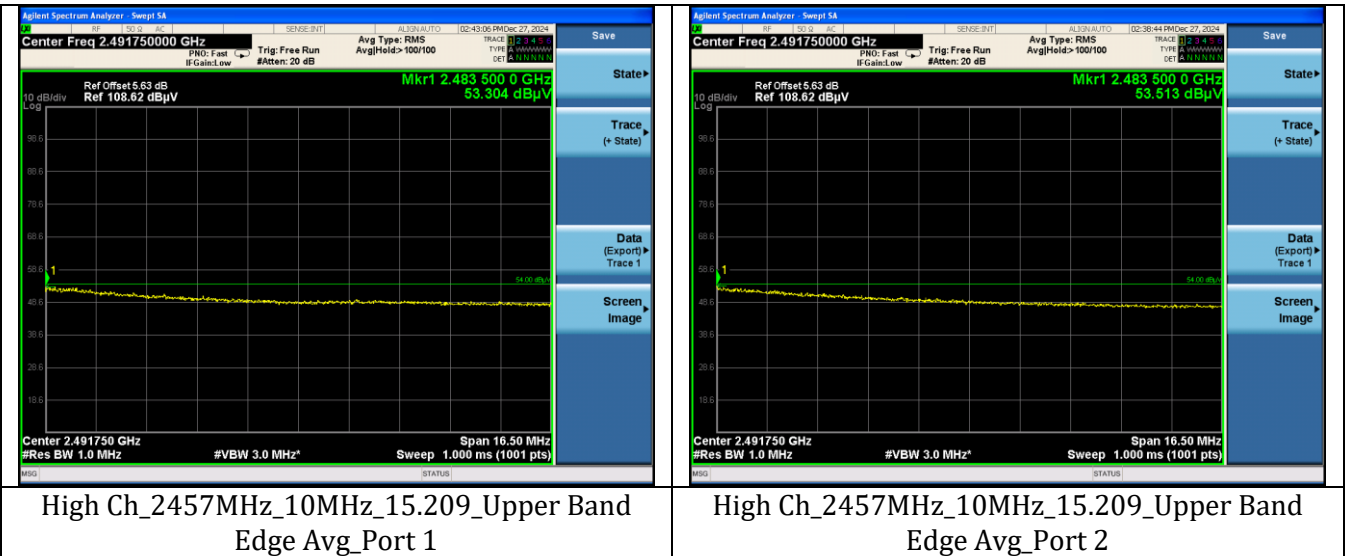
Note: 15.209 band edge tests for 20 MHz bandwidth were performed radiated, while 10 MHz bandwidth were performed conducted in lieu of radiated.

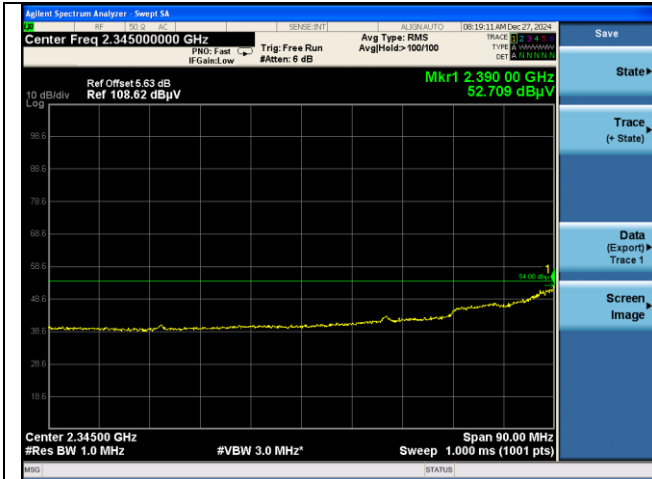
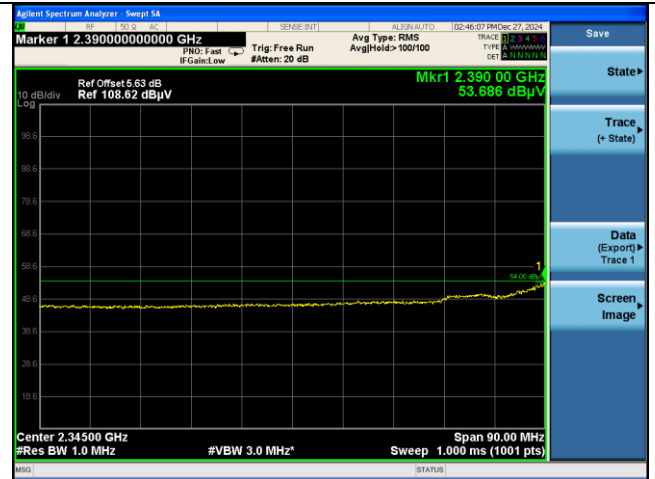
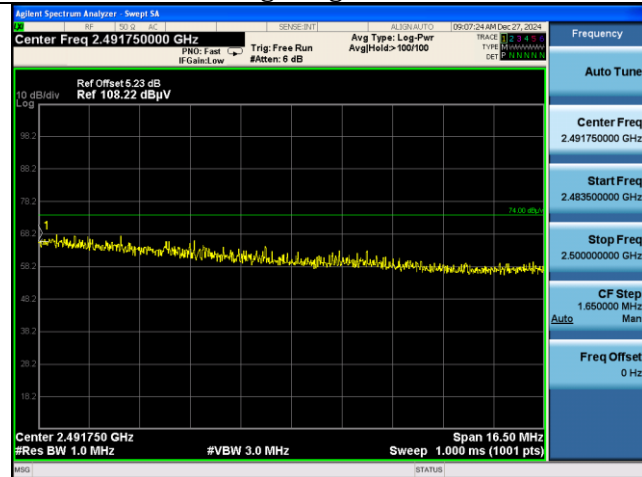
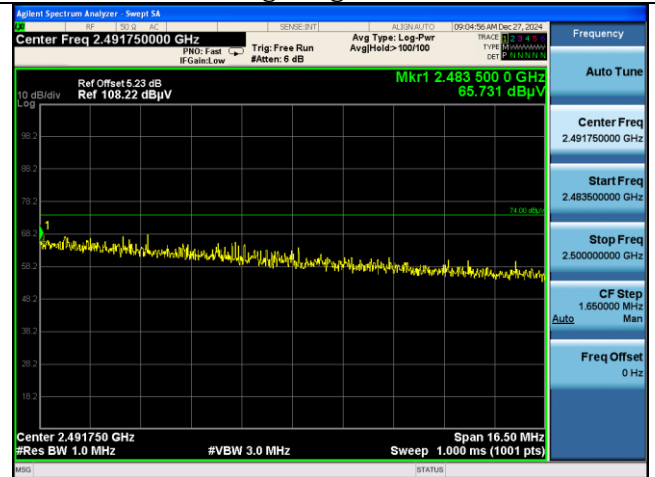
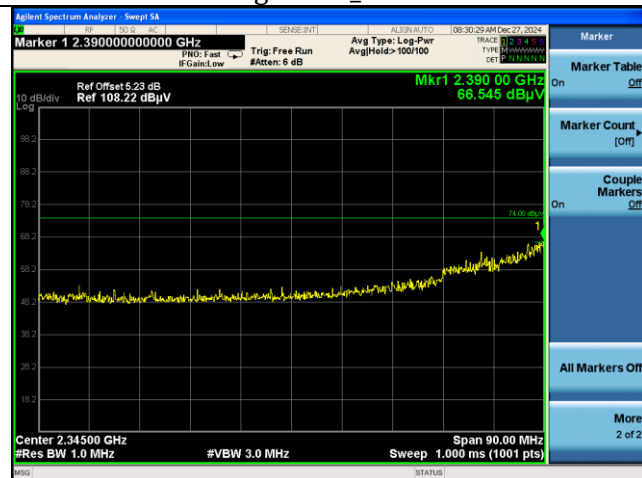
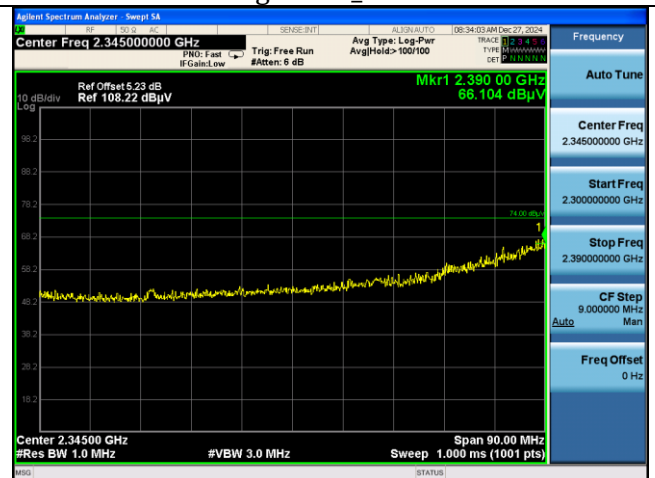
Note: 15.209 conducted measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The following formula applies to conducted measurements only and was used in making such conversions:

Above 1GHz: $E[dBuV/m] = EIRP[dbm] - 20 \log(d[m]) + 104.77$, where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 $E[dBuV/m] = EIRP[dbm] + 95.2$, for d = 3 m. Straight conversion between $E[dBuV/m]$ and $EIRP[dbm] = 107$. Thus offset for dBuV/m at 3meters is $95.2-107+antenna\ gain$. Additional $10*\log(\text{Number of antennas}[2])$ added to consider MIMO operation

Note: additional factors added to offset to consider attenuator + cable loss.

Note: DCCF already considered into offset for average measurements.



Low Ch_2416MHz_10MHz_15.209_Lower Band
Edge Avg_Port 1Low Ch_2416MHz_10MHz_15.209_Lower Band
Edge Avg_Port 2High Ch_2457MHz_10MHz_15.209_Upper Band
Edge Peak_Port 1High Ch_2457MHz_10MHz_15.209_Upper Band
Edge Peak_Port 2Low Ch_2416MHz_10MHz_15.209_Lower Band
Edge Peak_Port 1Low Ch_2416MHz_10MHz_15.209_Lower Band
Edge Peak_Port 2

