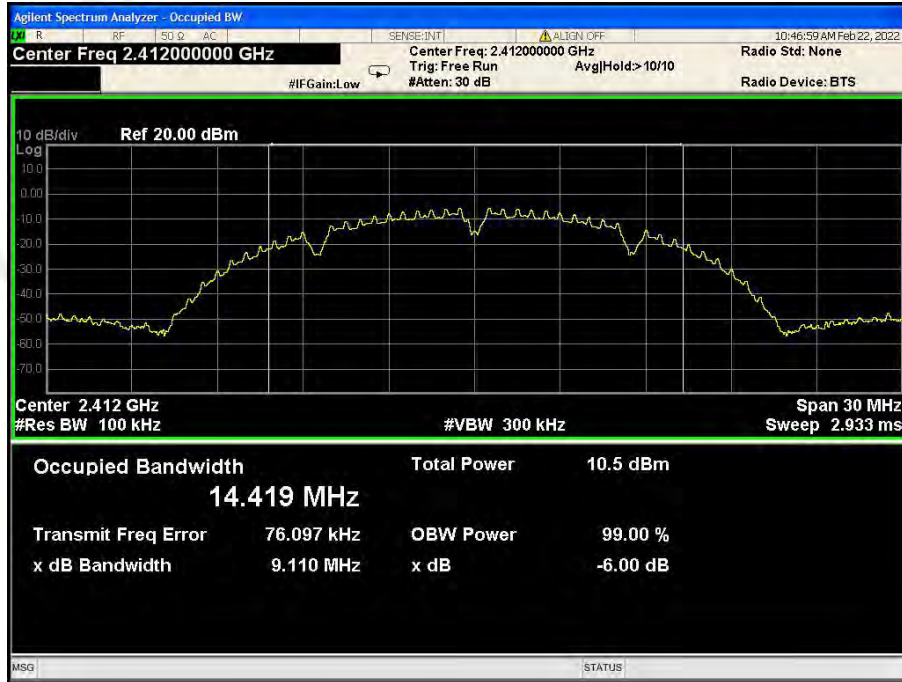


TX 802.11b Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	9.110	≥ 500	PASS
2437	9.107	≥ 500	PASS
2462	9.096	≥ 500	PASS

CH01: 2412MHz



CH06: 2437MHz

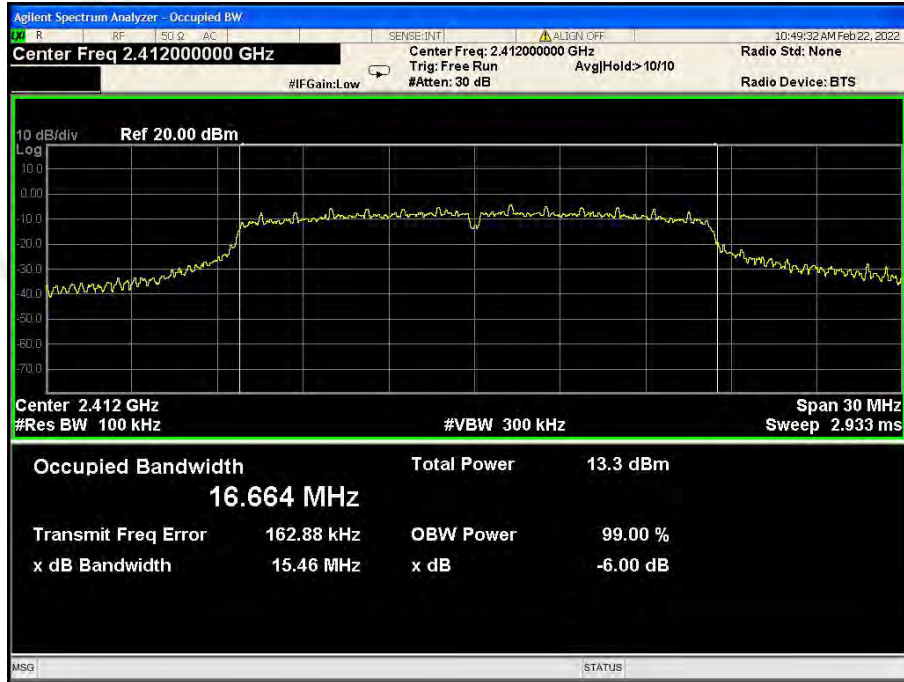


CH11: 2462MHz

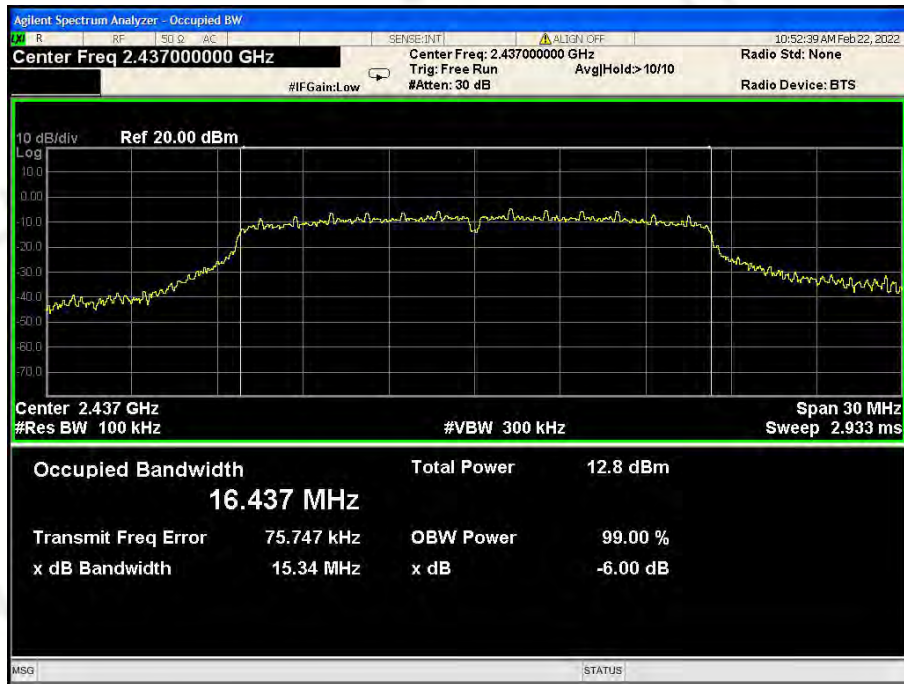


TX 802.11g Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.46	>=500	PASS
2437	15.34	>=500	PASS
2462	15.33	>=500	PASS

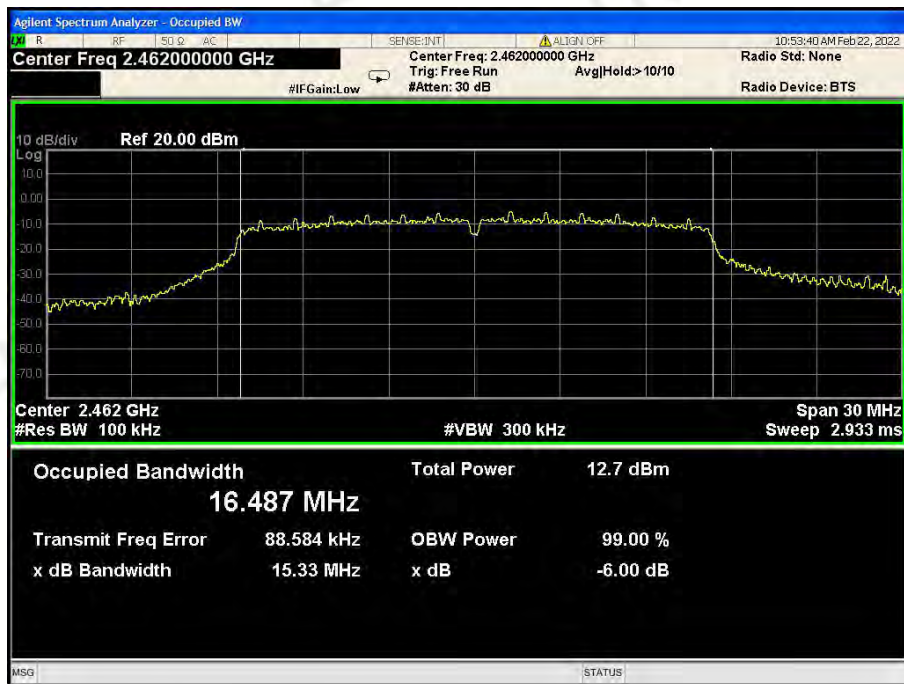
CH01: 2412MHz



CH06: 2437MHz

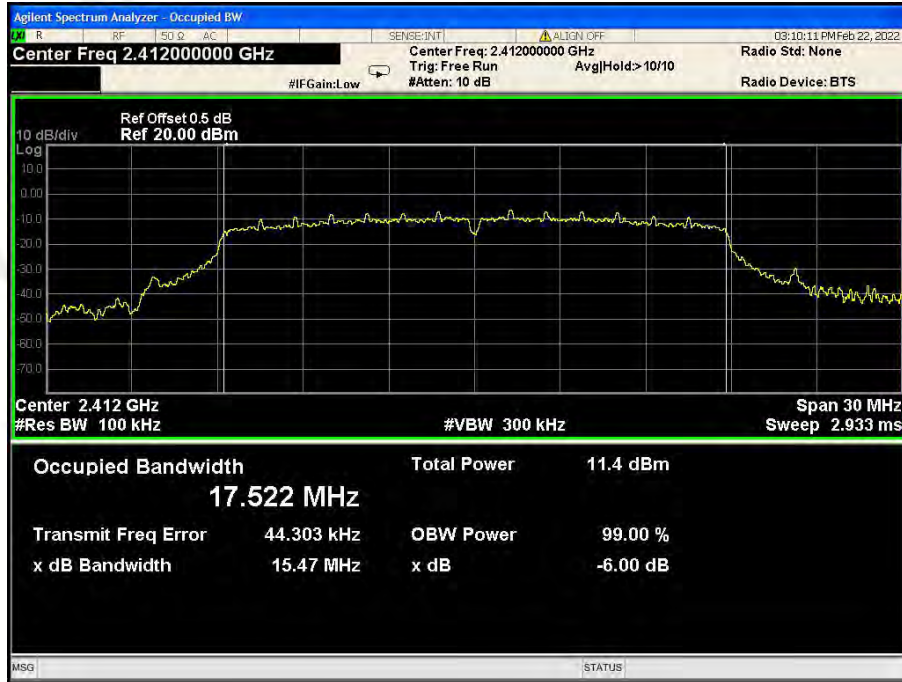


CH11: 2462MHz

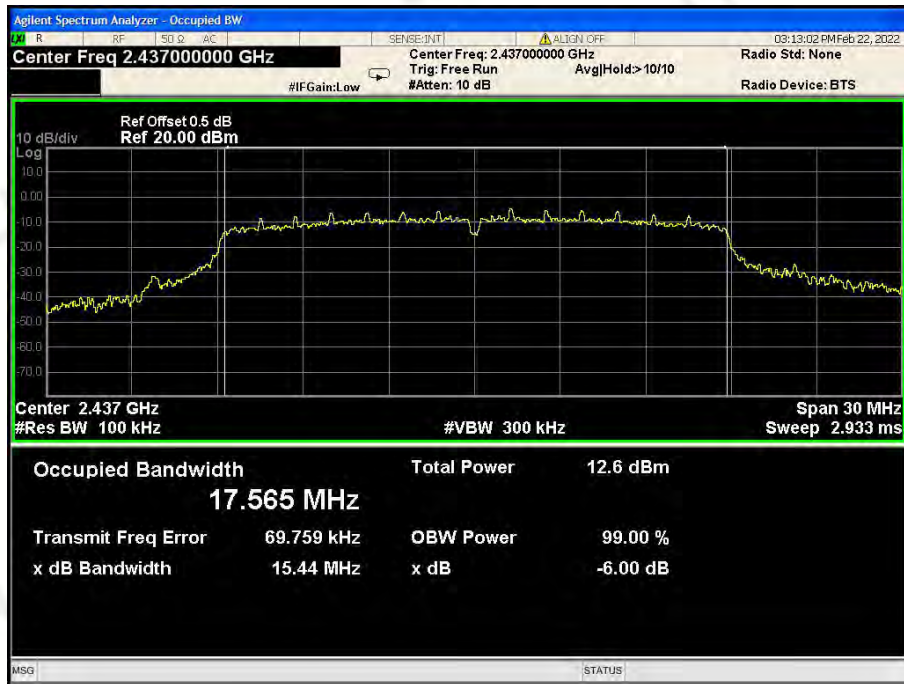


TX 802.11n/HT20 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	15.47	>=500	PASS
2437	15.44	>=500	PASS
2462	15.34	>=500	PASS

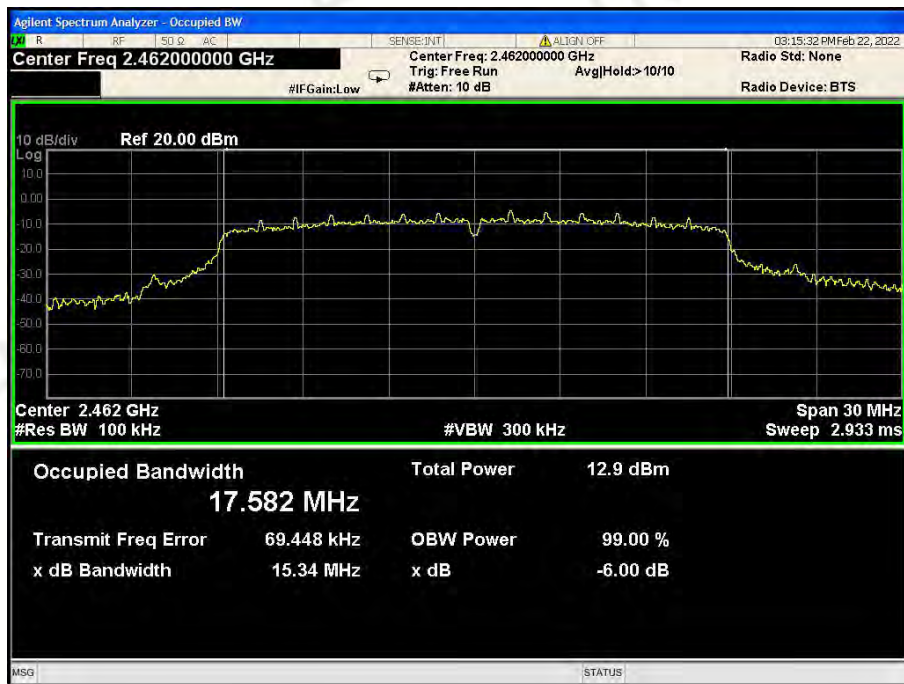
CH01: 2412MHz



CH06: 2437MHz

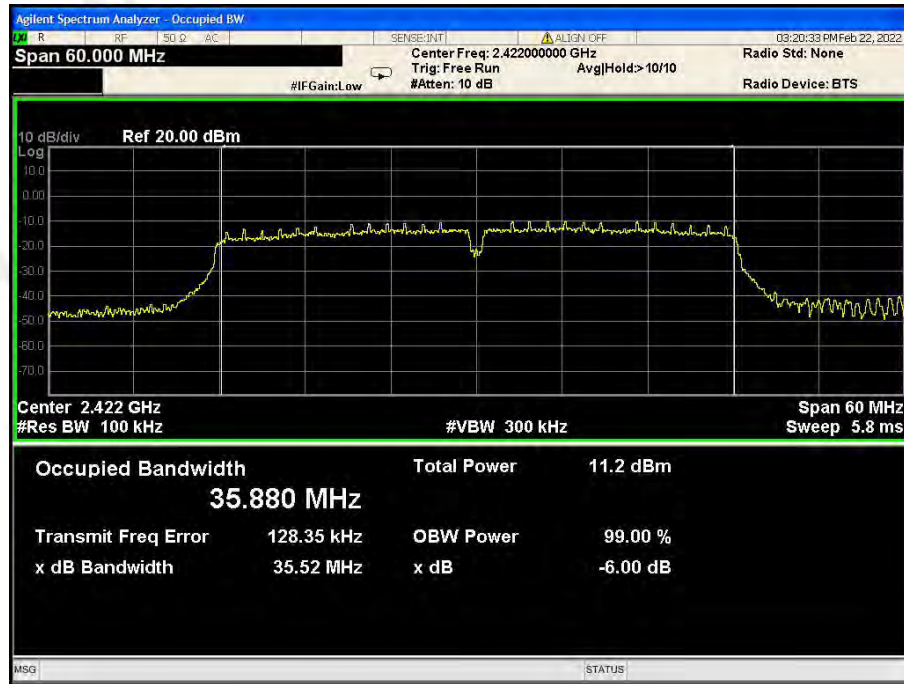


CH11: 2462MHz

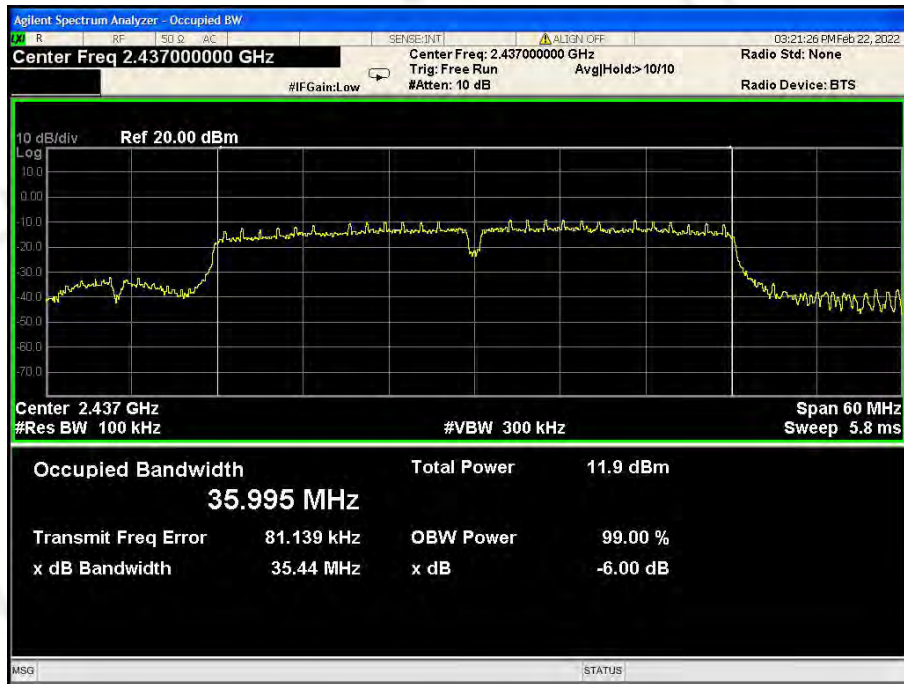


TX 802.11n/HT40 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2422	35.52	≥ 500	PASS
2437	35.44	≥ 500	PASS
2452	35.33	≥ 500	PASS

CH03: 2422MHz



CH06: 2437MHz



CH09: 2452MHz



6 POWER SPECTRAL DENSITY

6.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW=3kHz, VBW=10kHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 EQUIPMENT USED

Same as Radiated Emission Measurement.

6.4 TEST RESULT

PASS

TX 802.11b Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.530	8	PASS
2437	-9.813	8	PASS
2462	-10.631	8	PASS

CH01: 2412MHz



CH06: 2437MHz

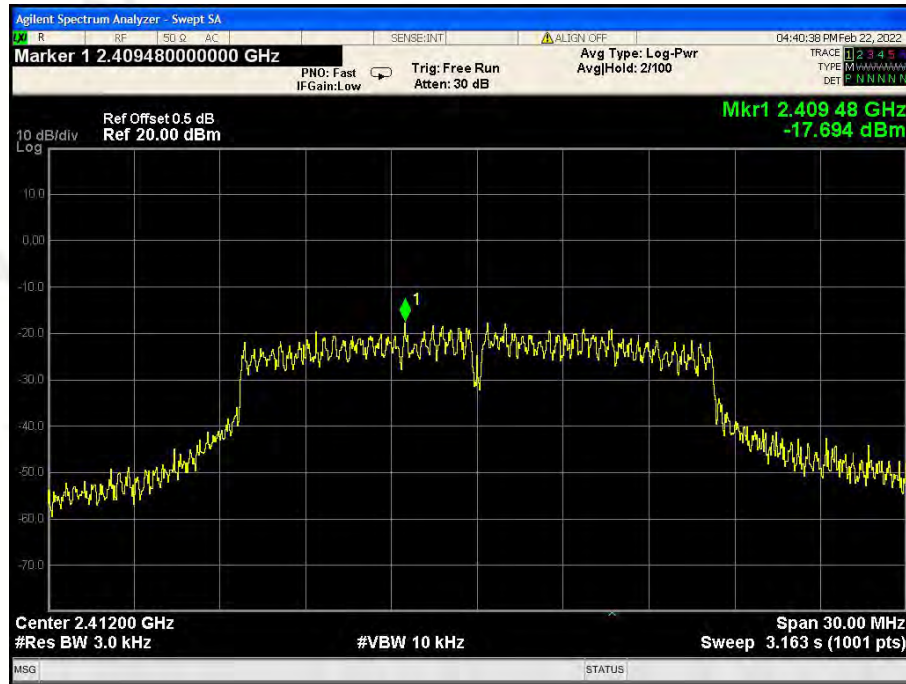


CH11: 2462MHz

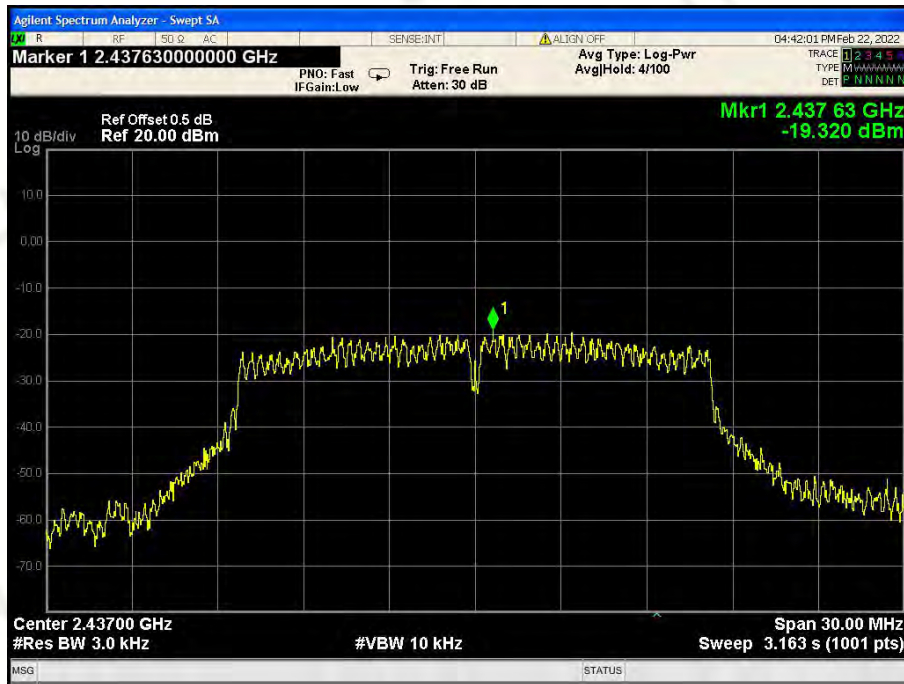


TX 802.11g Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-17.694	8	PASS
2437	-19.320	8	PASS
2462	-19.138	8	PASS

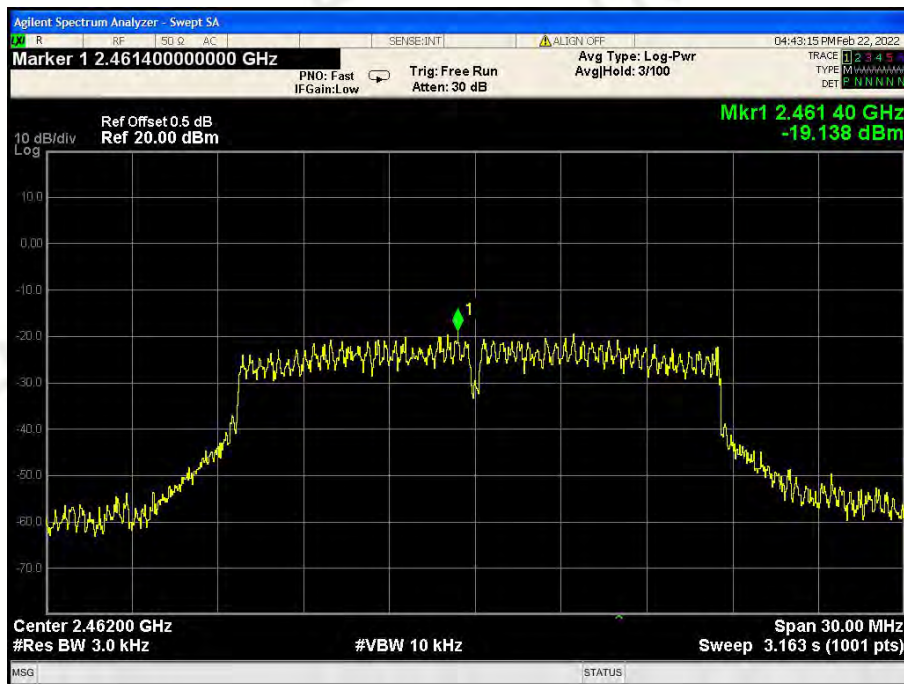
CH01: 2412MHz



CH06: 2437MHz

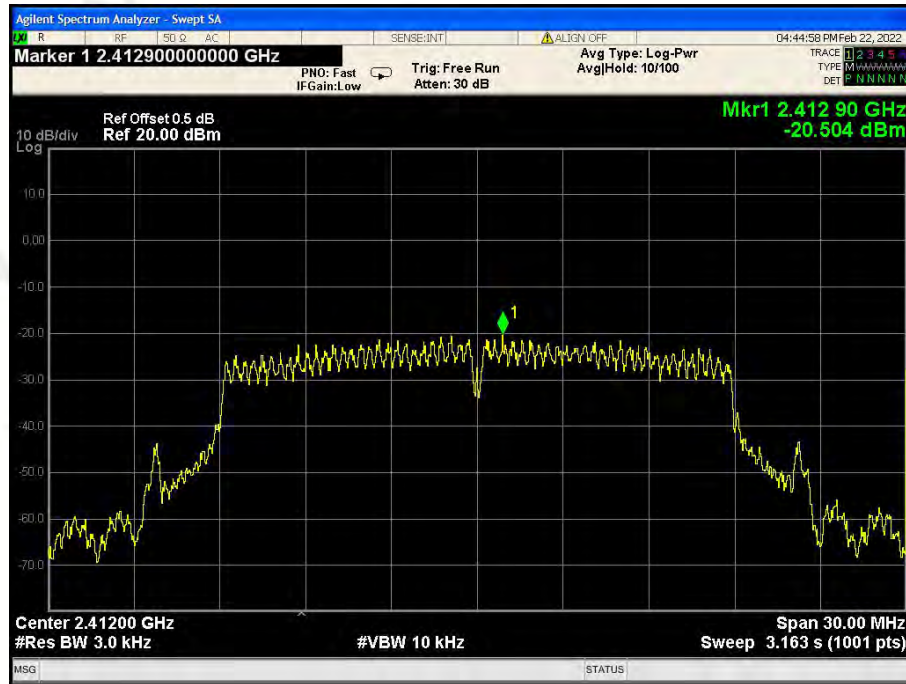


CH11: 2462MHz

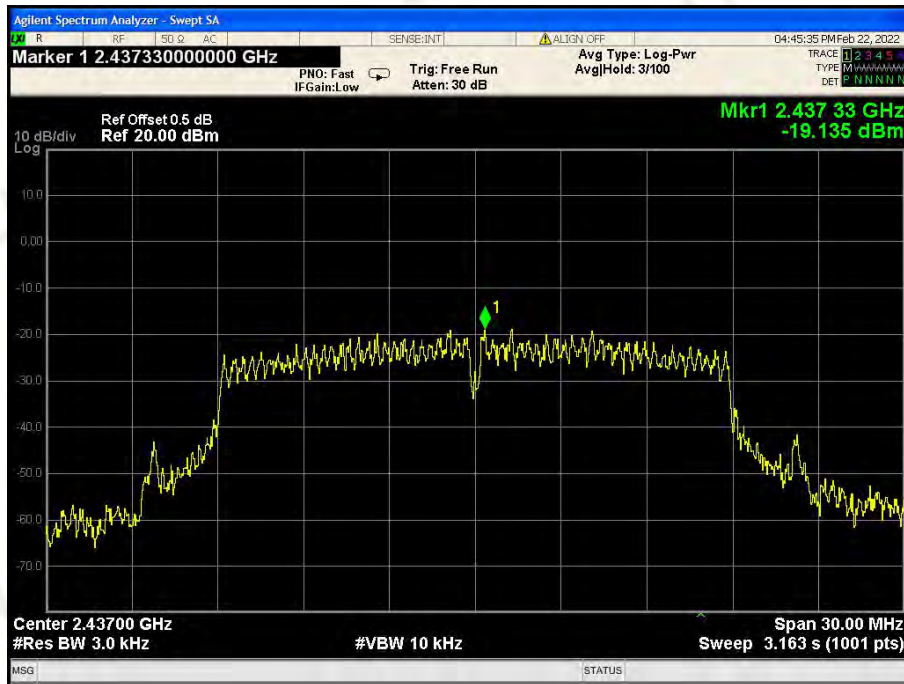


TX 802.11n/HT20 Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-20.504	8	PASS
2437	-19.135	8	PASS
2462	-16.515	8	PASS

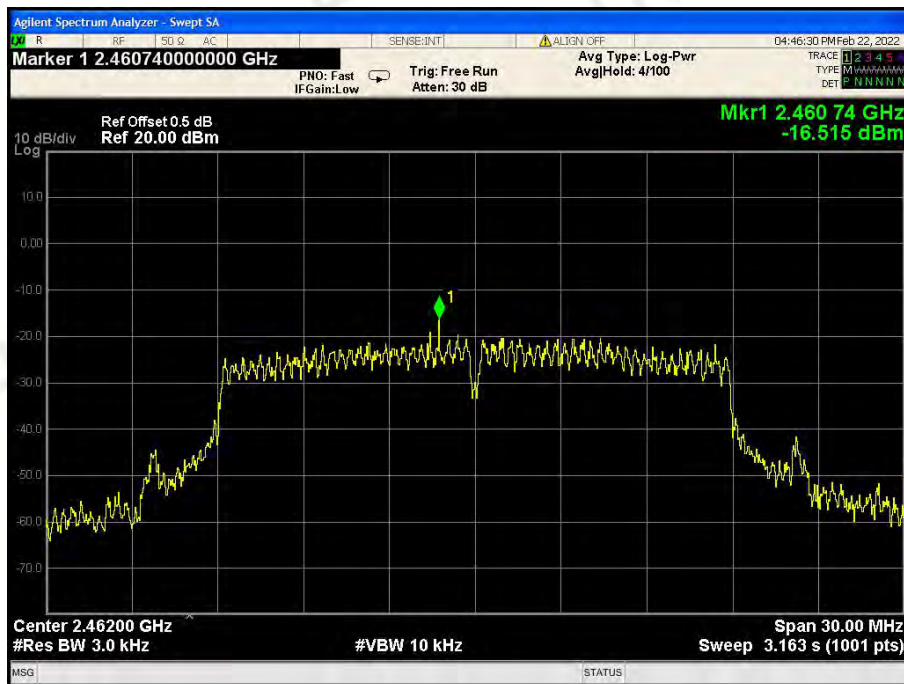
CH01: 2412MHz



CH06: 2437MHz

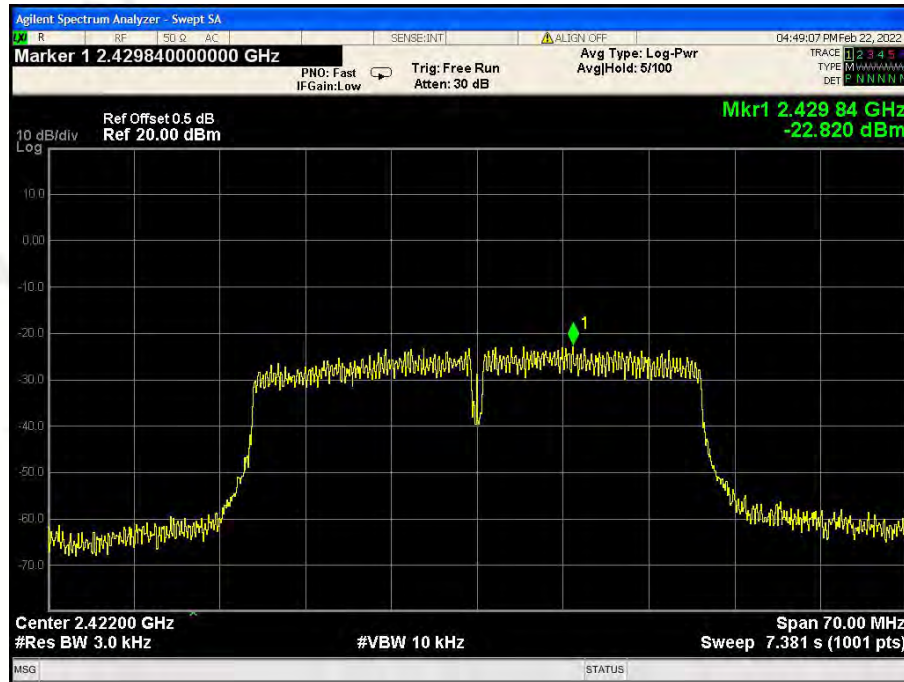


CH11: 2462MHz

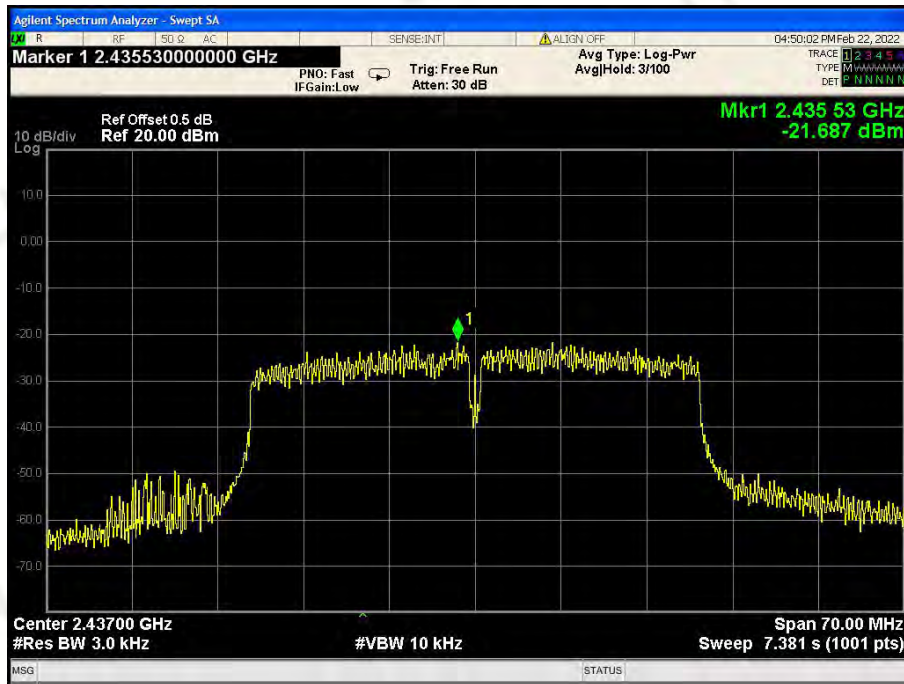


TX 802.11n/HT40 Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-22.820	8	PASS
2437	-21.687	8	PASS
2452	-19.918	8	PASS

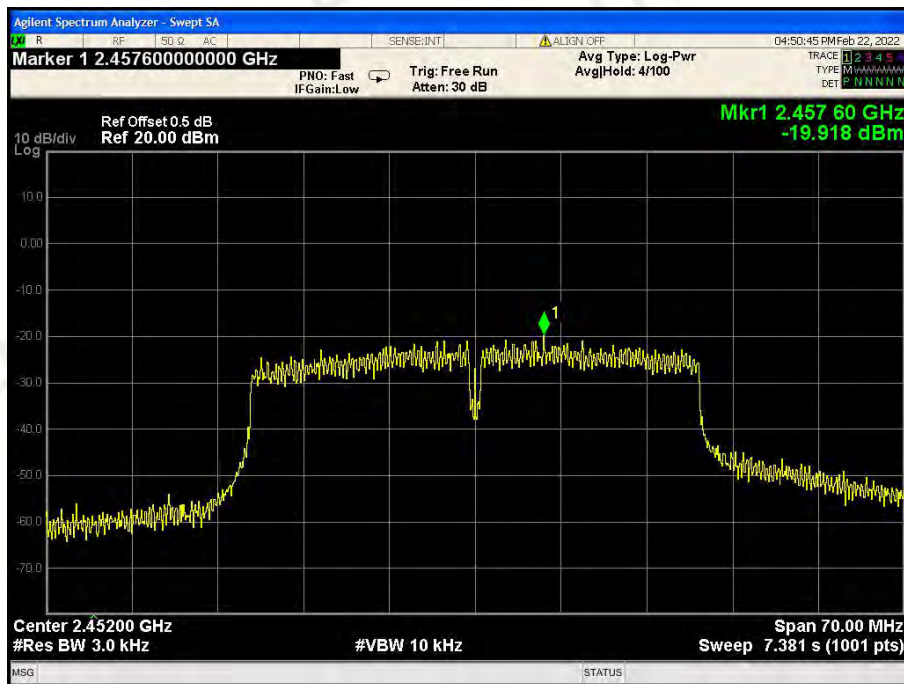
CH03: 2422MHz



CH06: 2437MHz



CH09: 2452MHz



7 PEAK OUTPUT POWER

7.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The EUT was directly connected to the Power meter.

7.3 EQUIPMENT USED

Same as Radiated Emission Measurement.

7.4 TEST RESULT

PASS

Test Mode	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	LIMIT (dBm)
802.11b	2412	12.75	30
	2437	12.69	30
	2462	12.71	30
802.11g	2412	12.33	30
	2437	12.27	30
	2462	12.28	30
802.11n/HT20	2412	11.56	30
	2437	11.47	30
	2462	11.55	30
802.11n/HT40	2422	10.78	30
	2437	10.69	30
	2452	10.62	30

8 OUT OF BAND EMISSIONS

8.1 TEST LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.2 TEST SETUP



8.3 TEST PROCEDURE

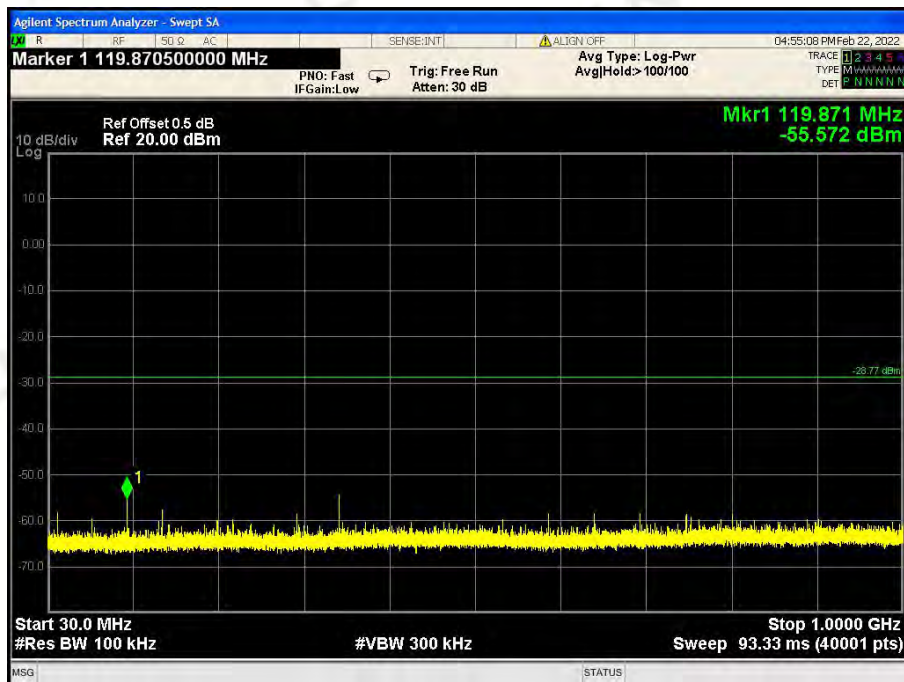
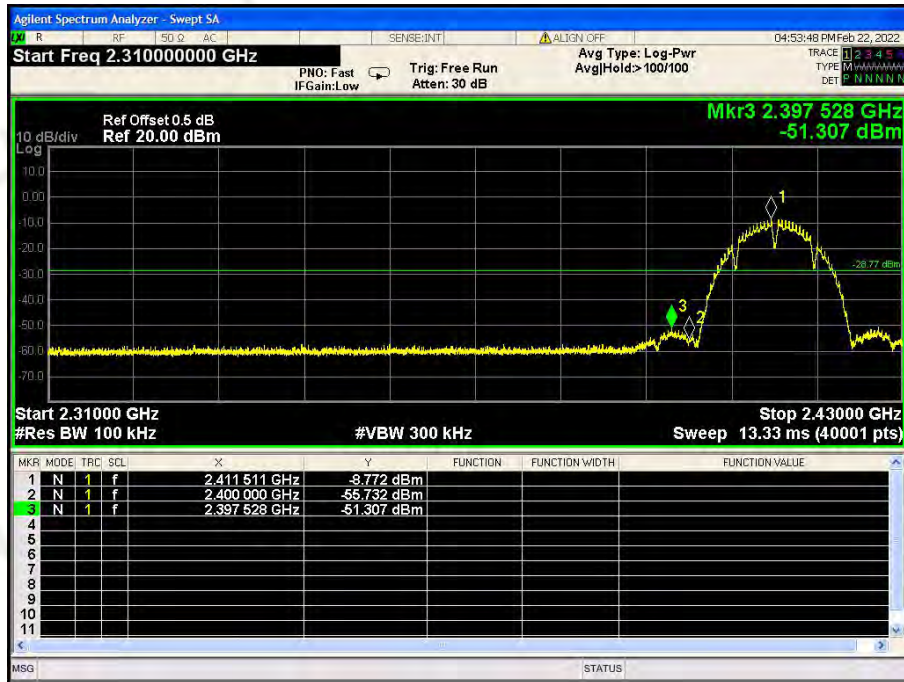
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as TX operation and connect directly to the spectrum analyzer.
3. Based on FCC Part15 C Section 15.247: RBW=100kHz, VBW=300kHz.
4. Set detected by the spectrum analyzer with peak detector.

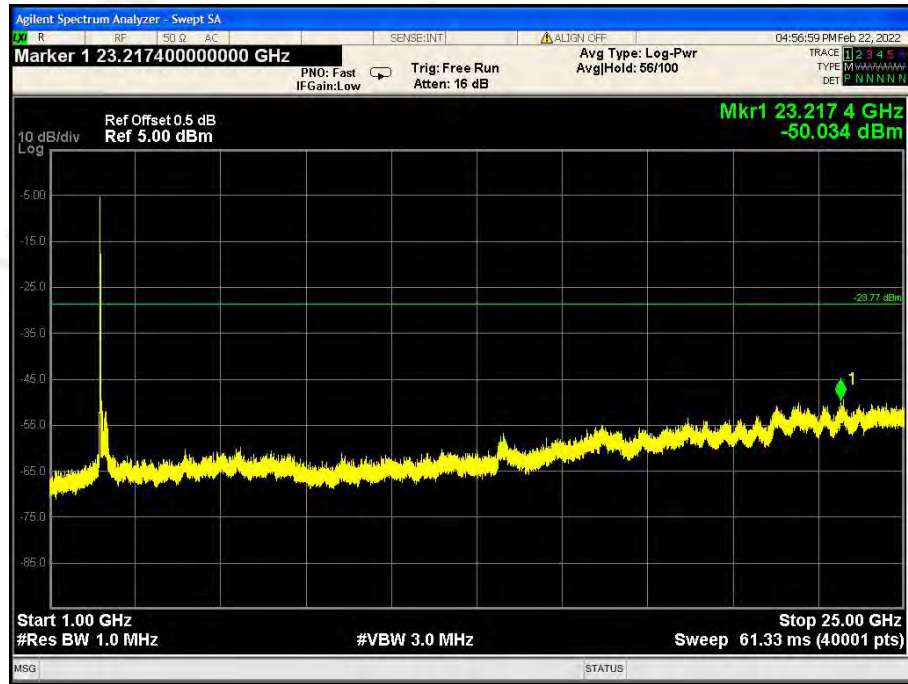
8.4 TEST RESULT

PASS

TX 802.11b Mode:

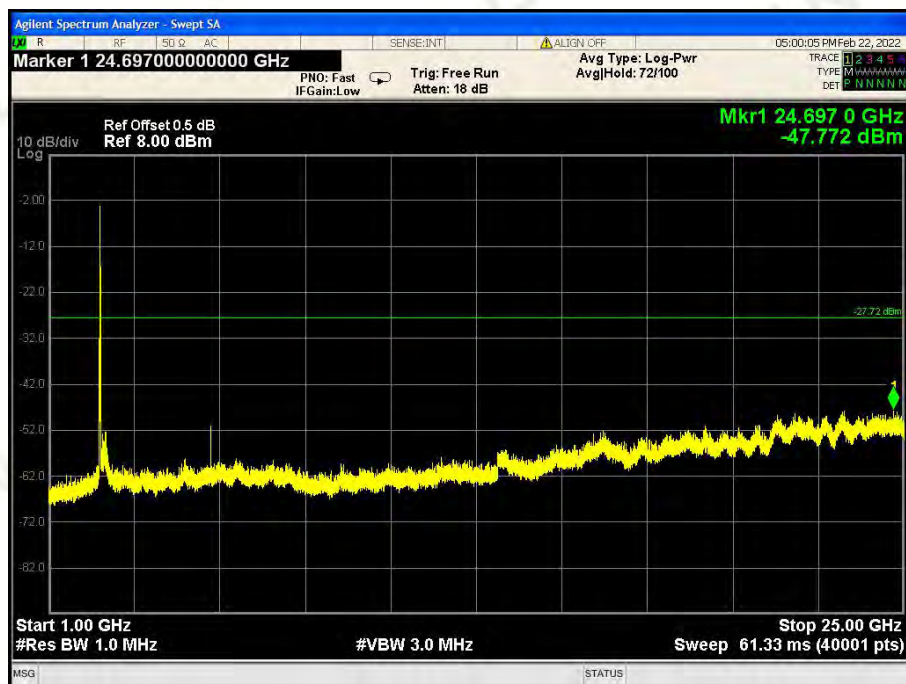
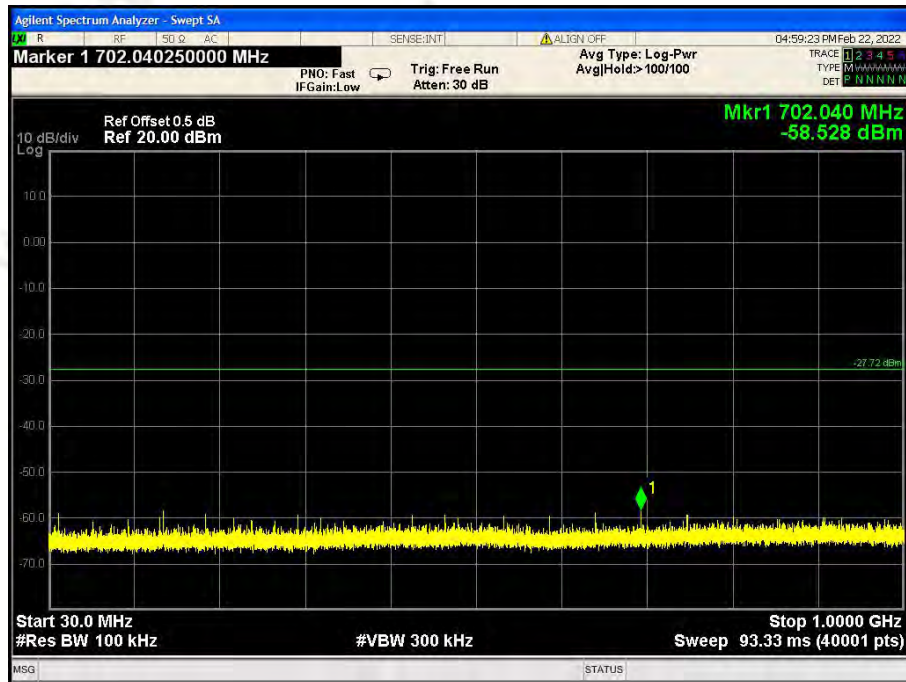
CH01: 2412MHz



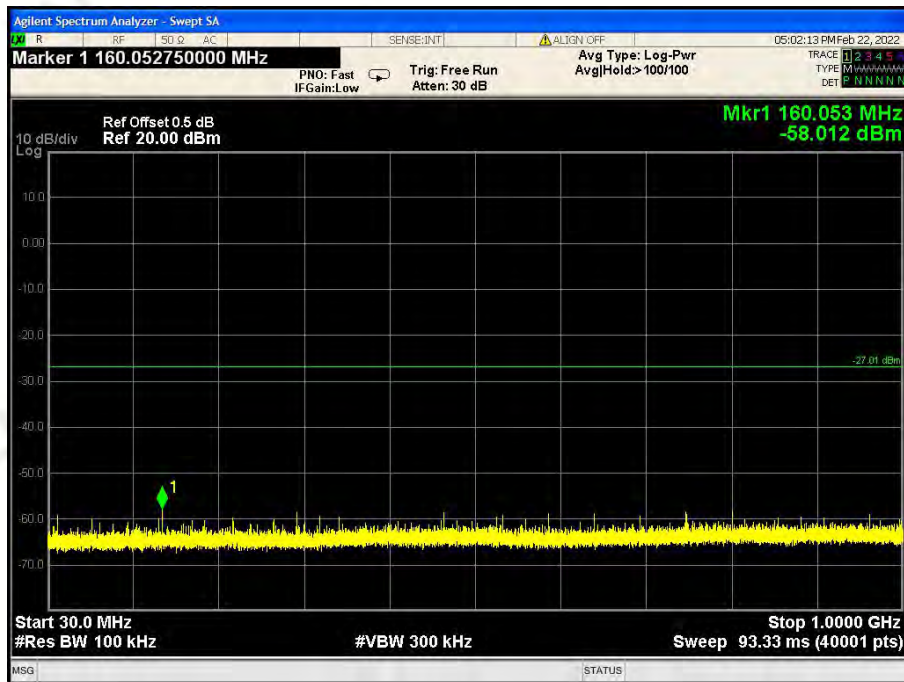


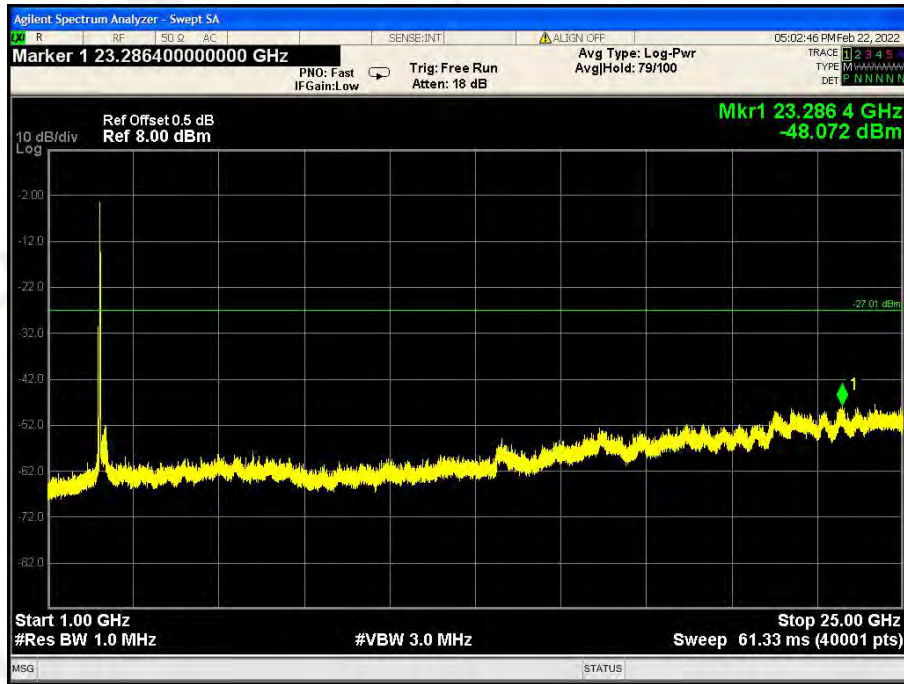
CH06: 2437MHz





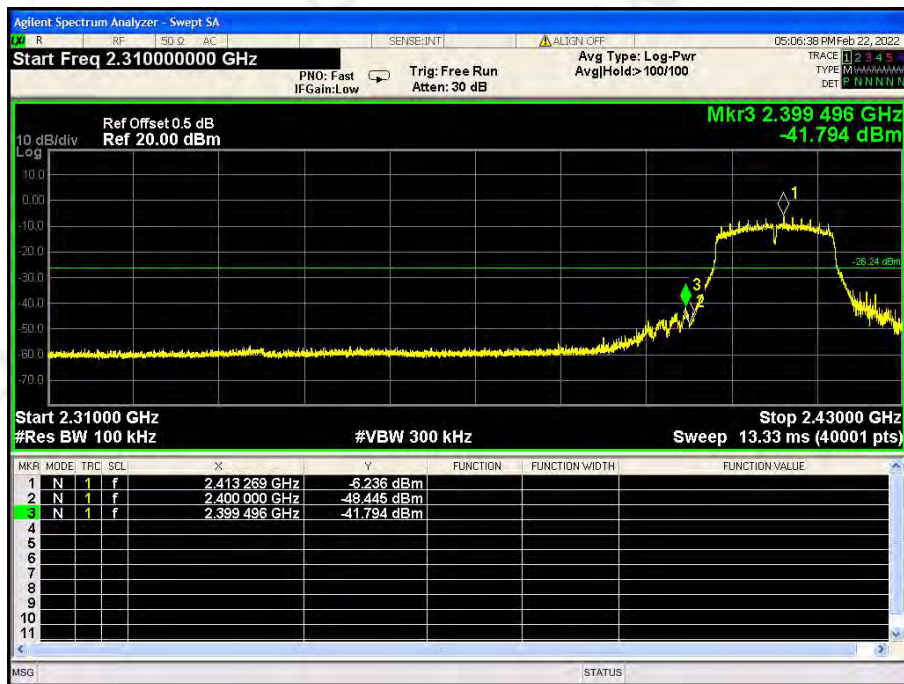
CH11: 2462MHz

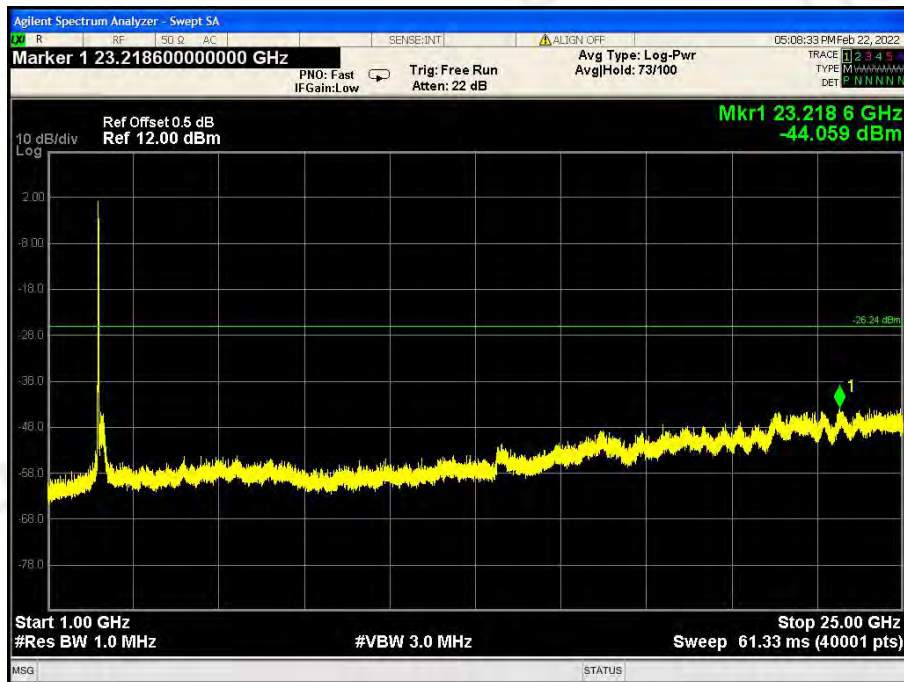
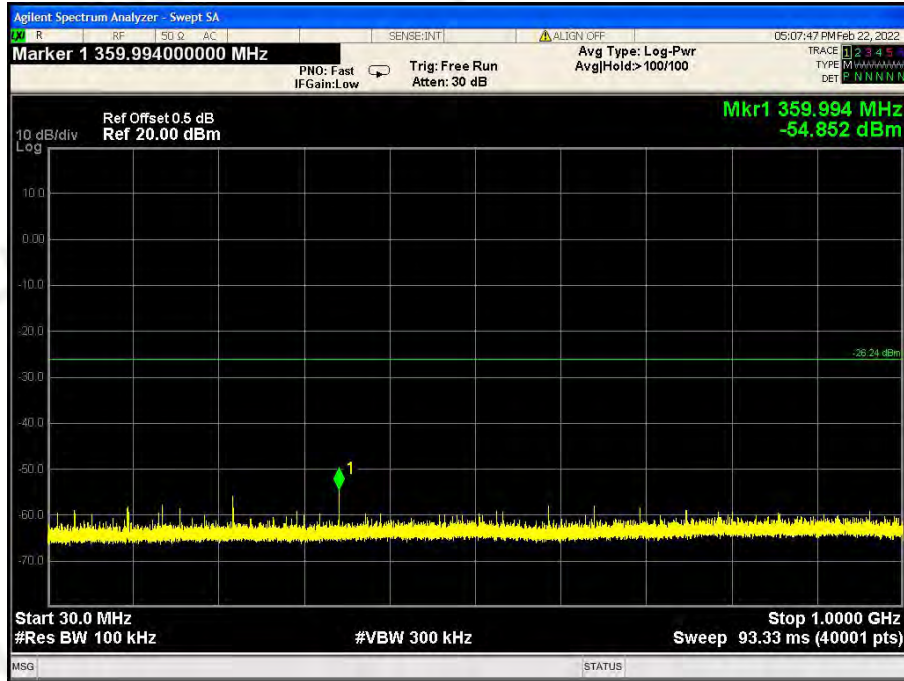




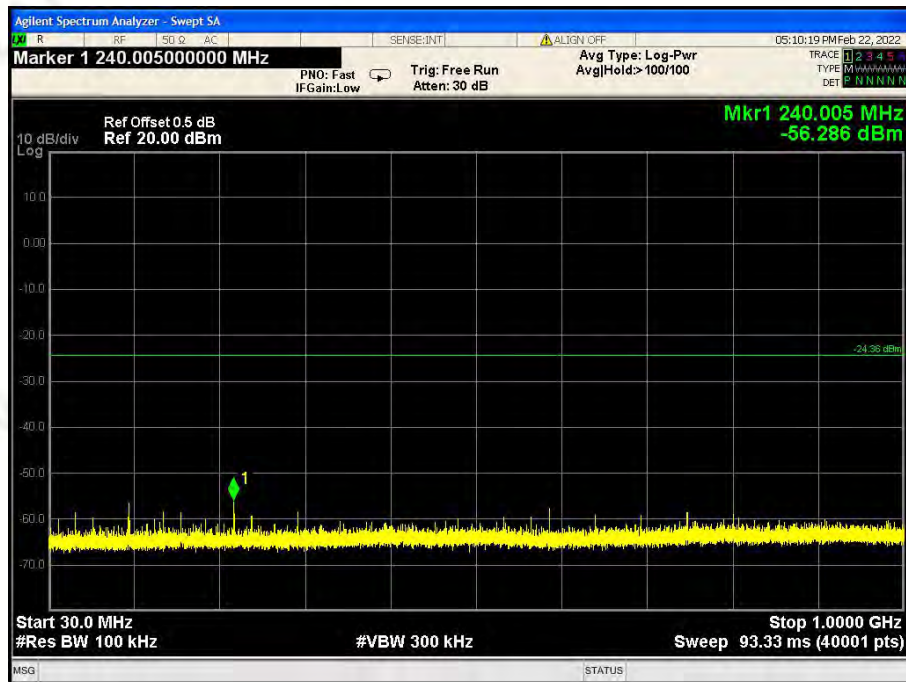
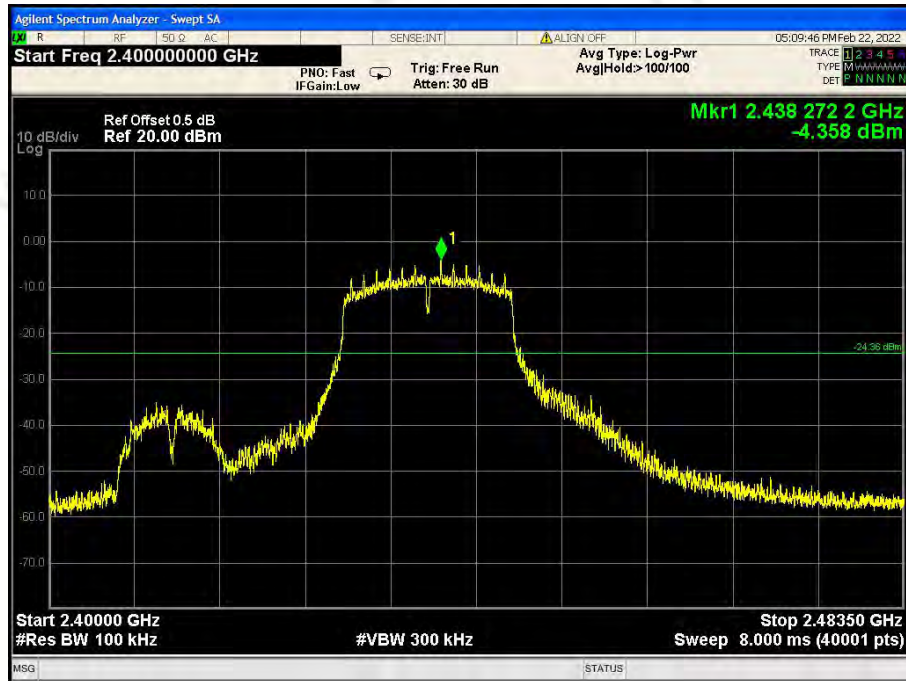
TX 802.11g Mode:

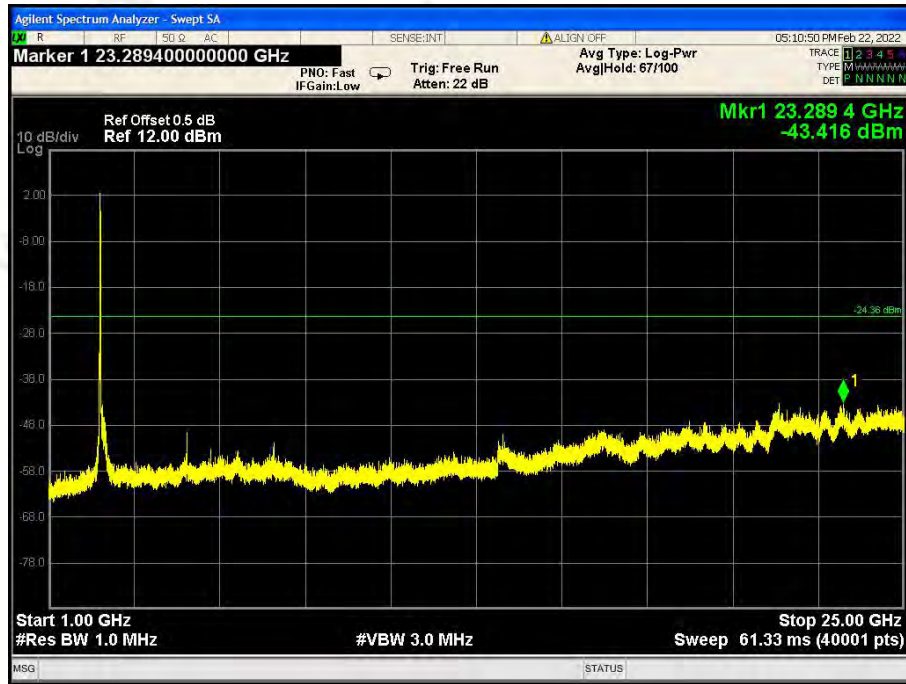
CH01: 2412MHz





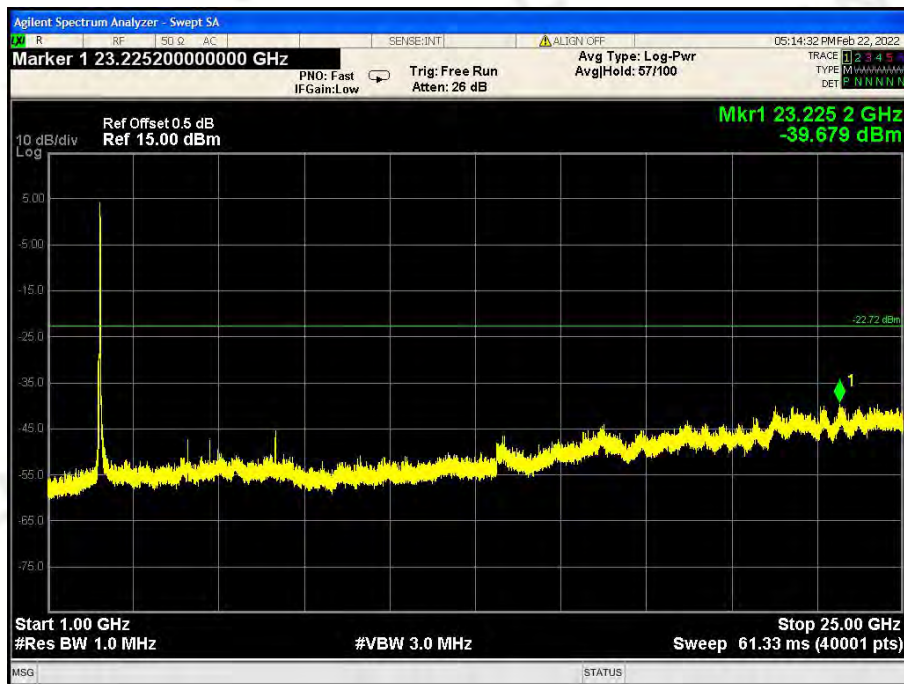
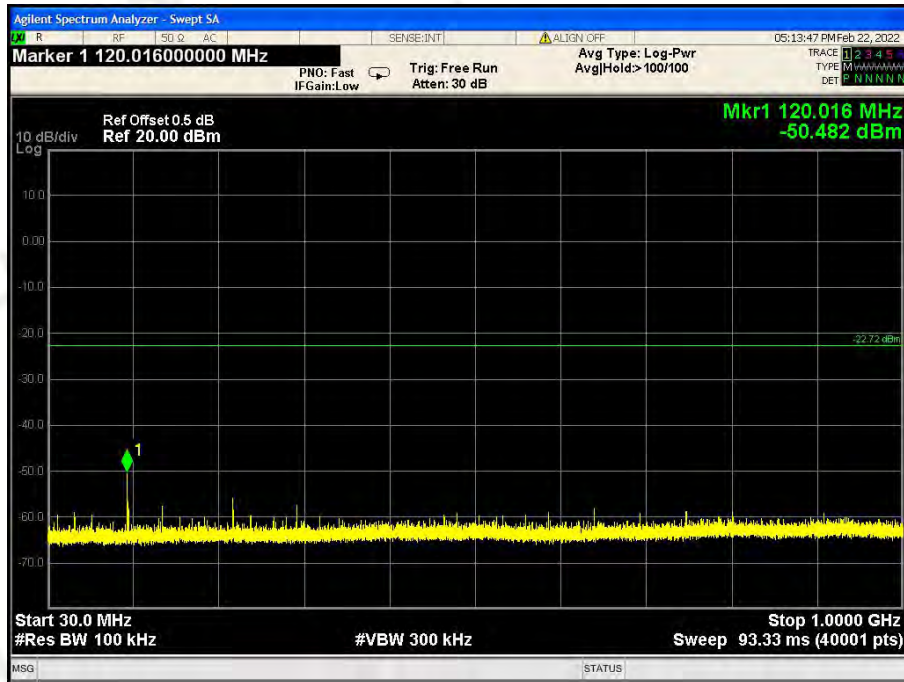
CH06: 2437MHz





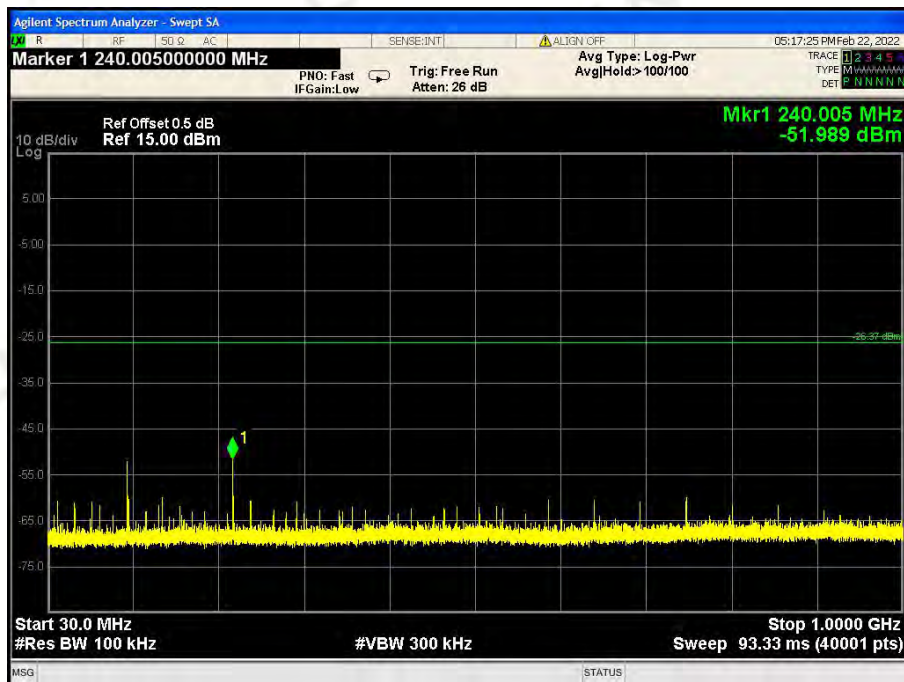
CH11: 2462MHz

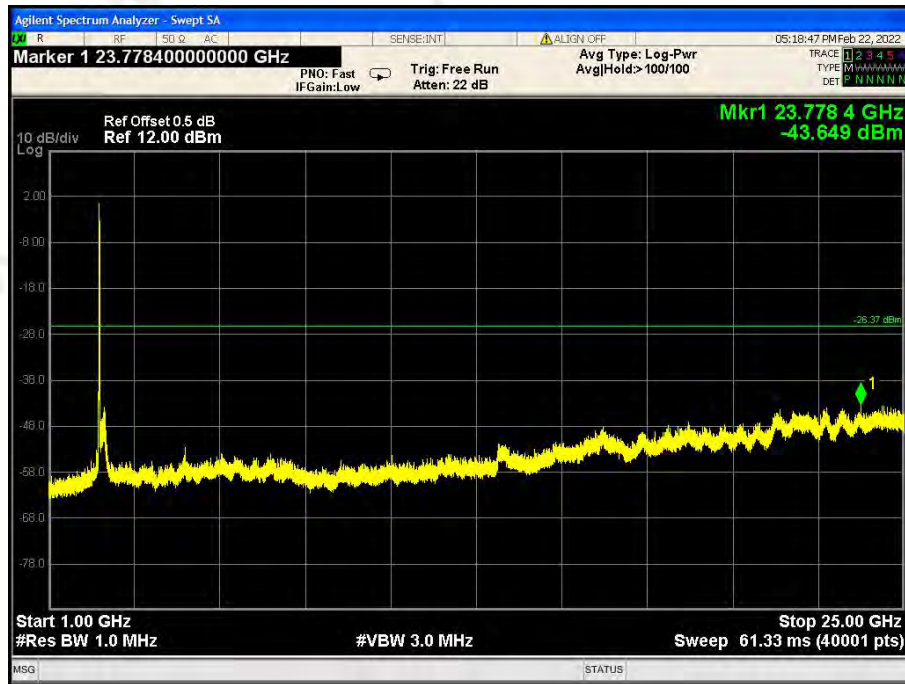




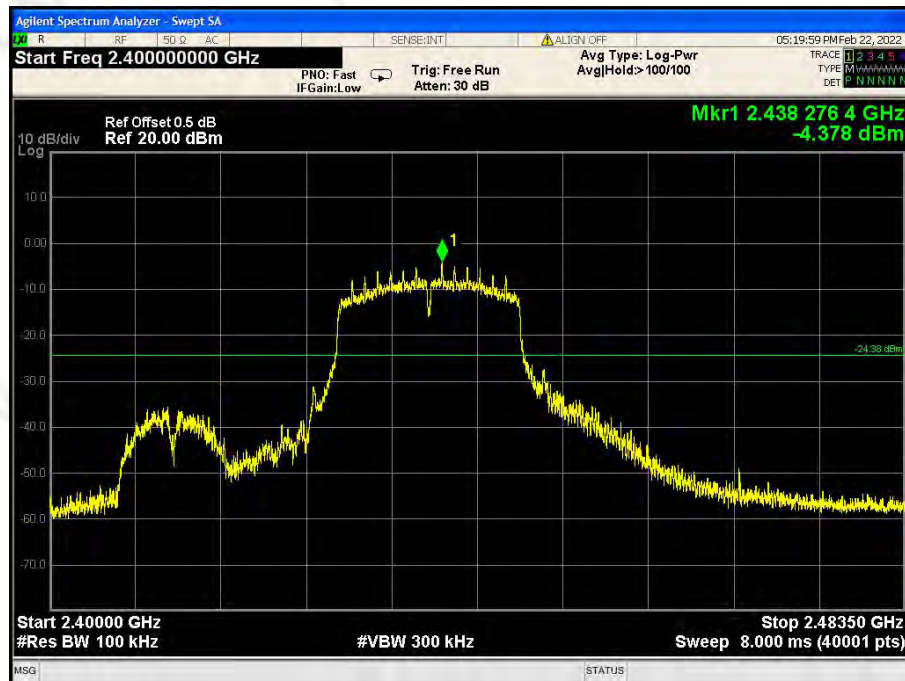
TX 802.11n/HT20 Mode:

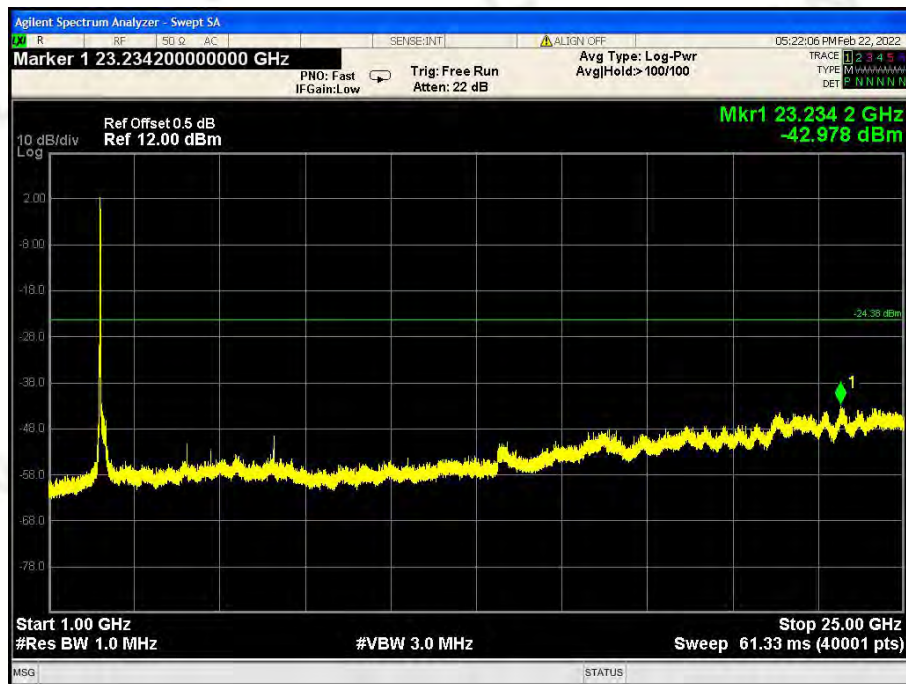
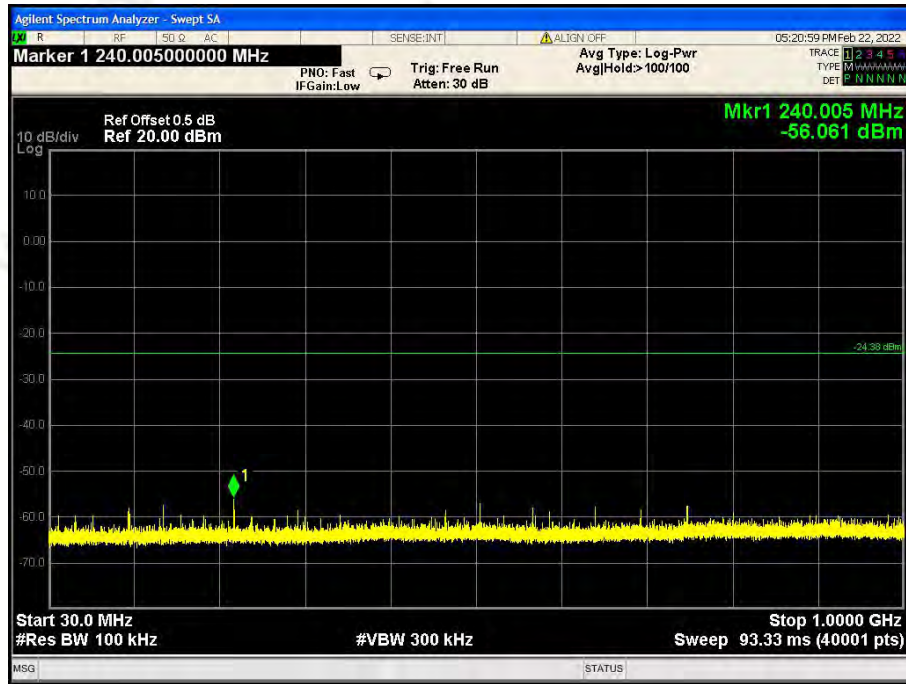
CH01: 2412MHz



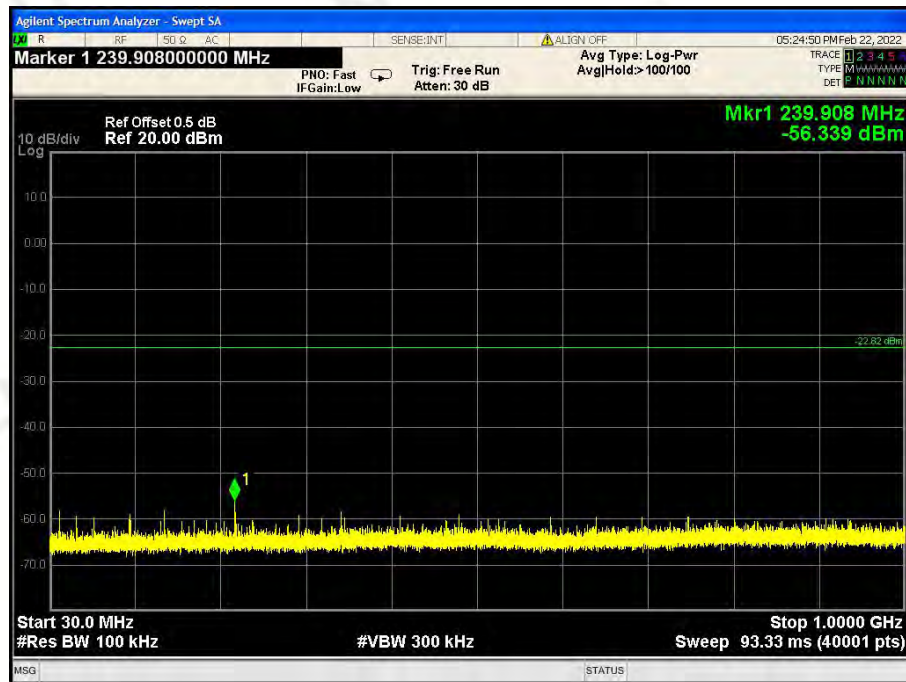


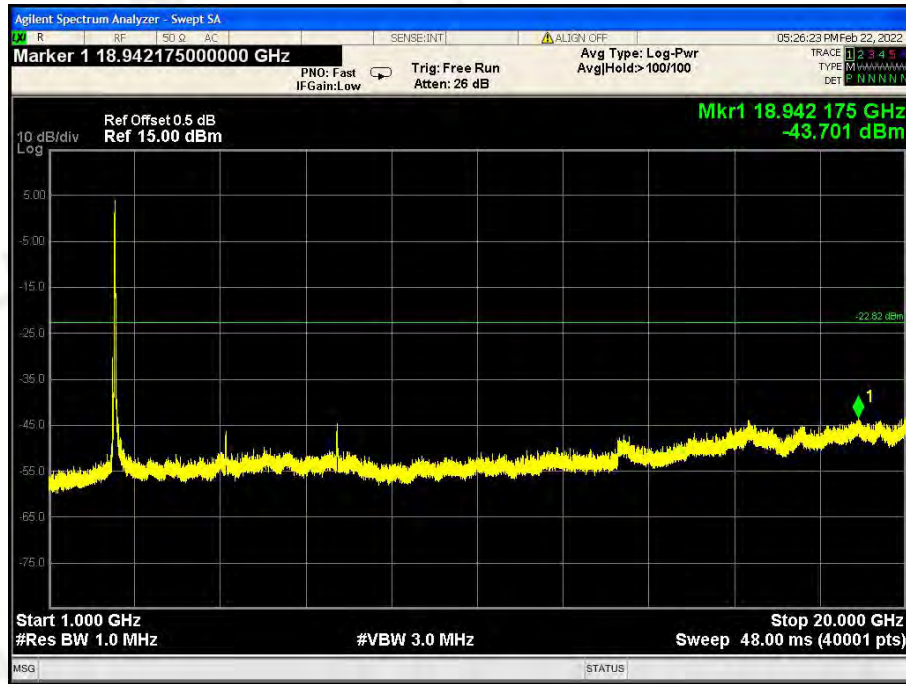
CH06: 2437MHz





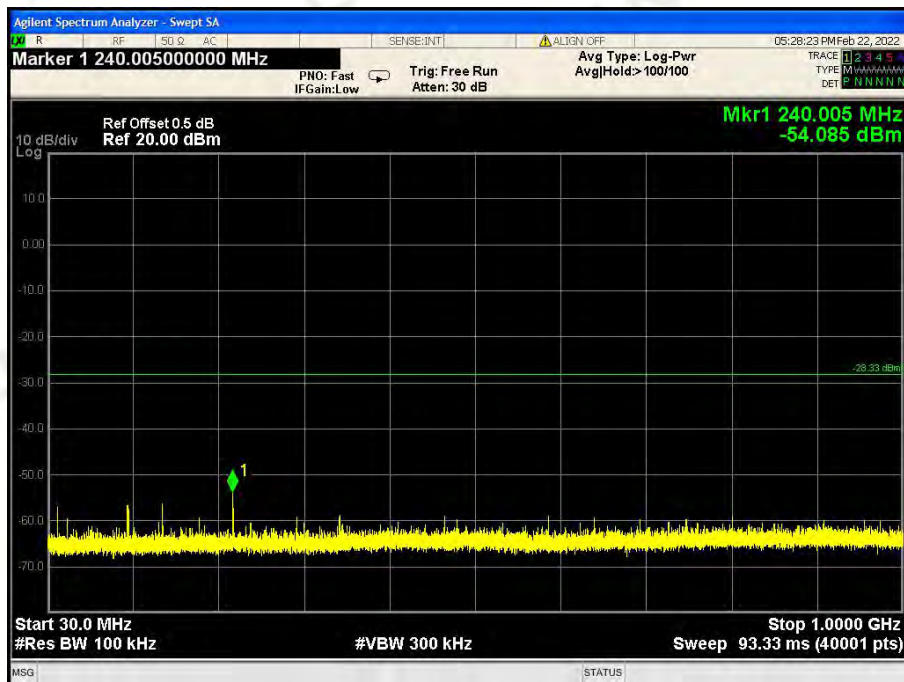
CH11: 2462MHz

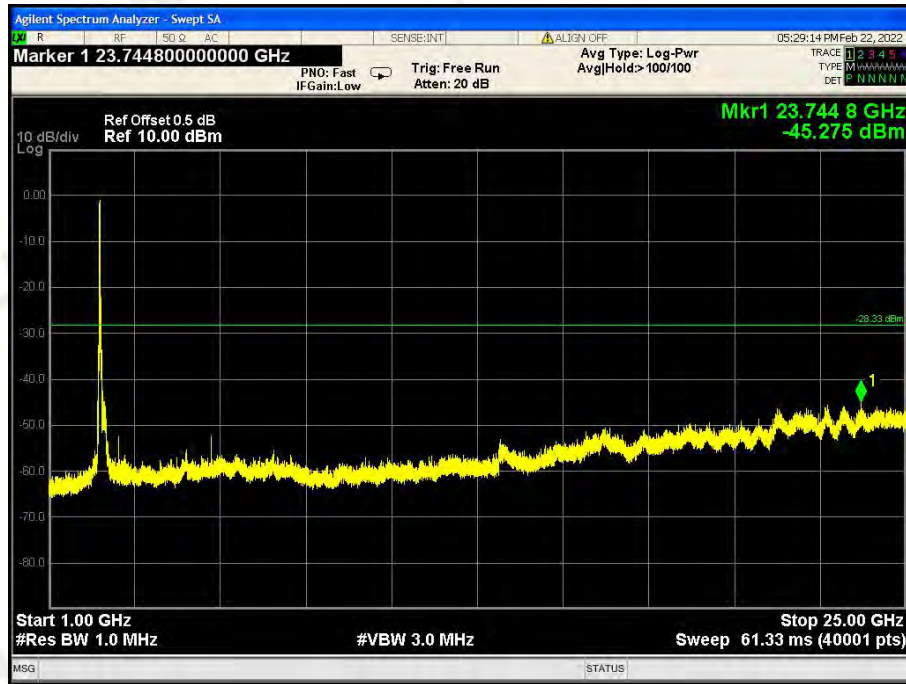




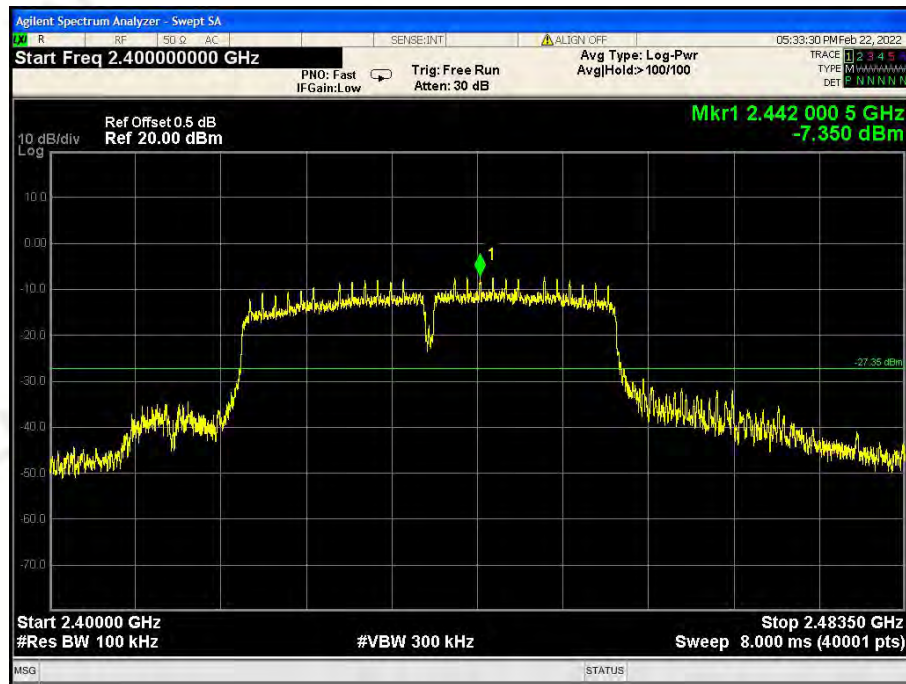
TX 802.11n/HT40 Mode:

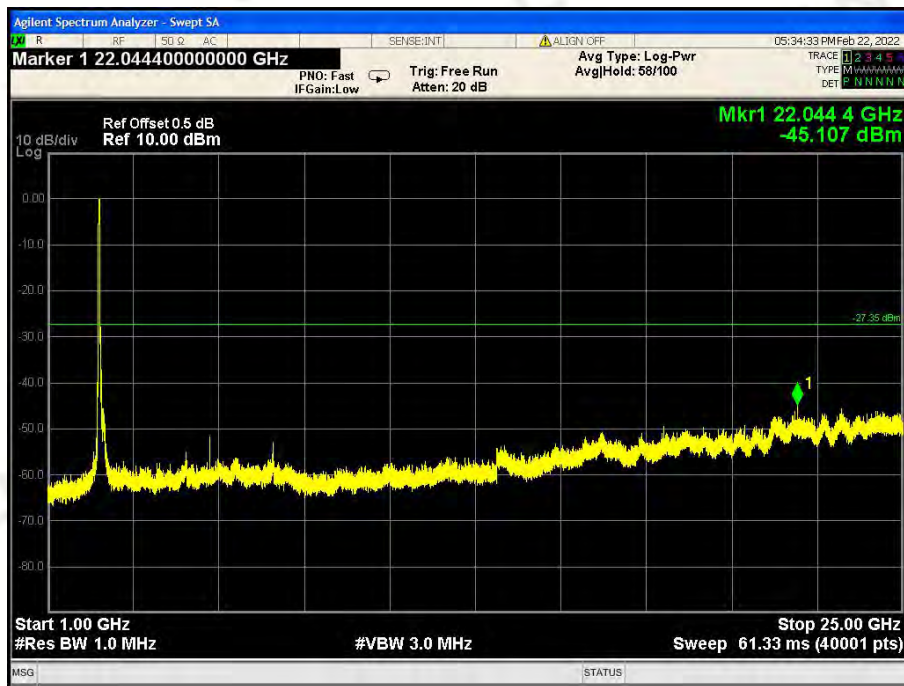
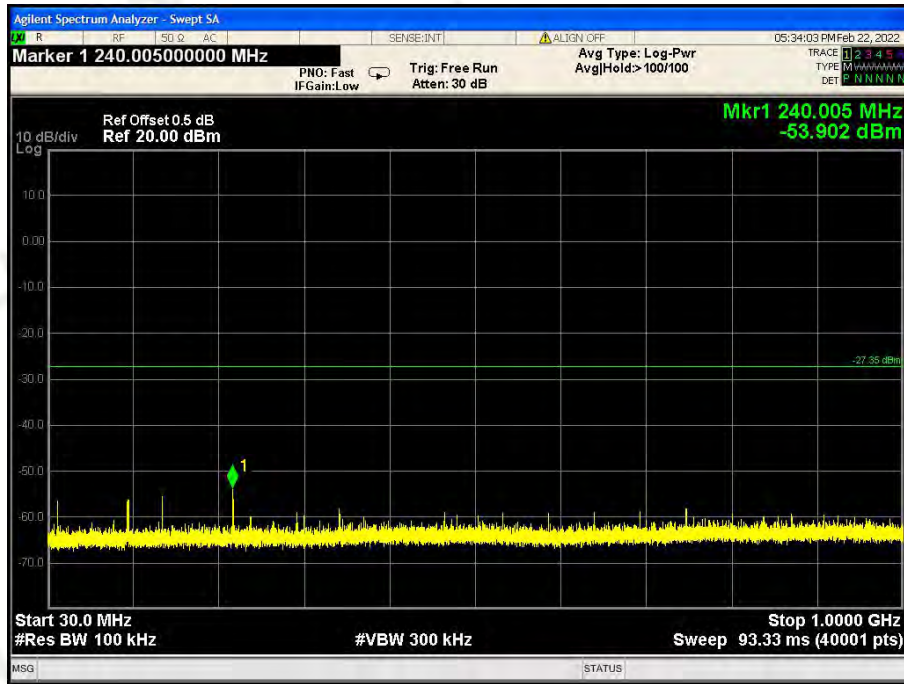
CH03: 2422MHz



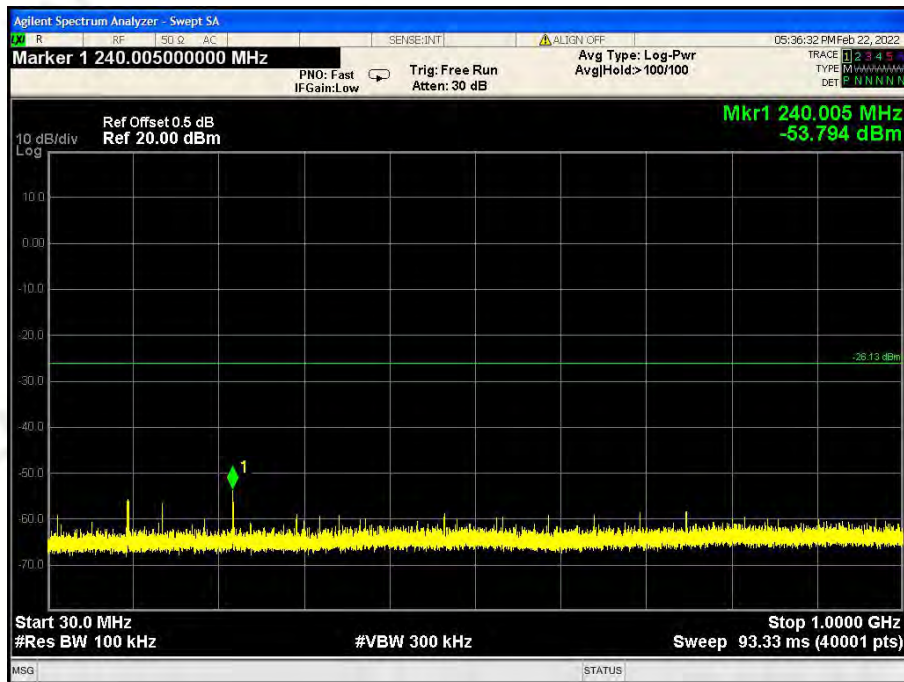


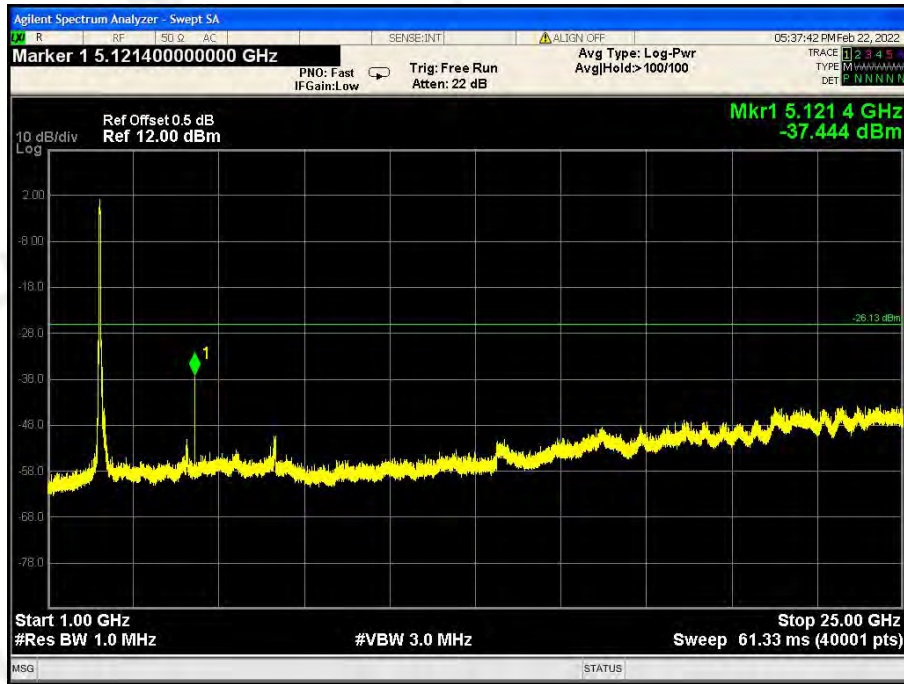
CH06: 2437MHz





CH09: 2452MHz





9 ANTENNA REQUIREMENT

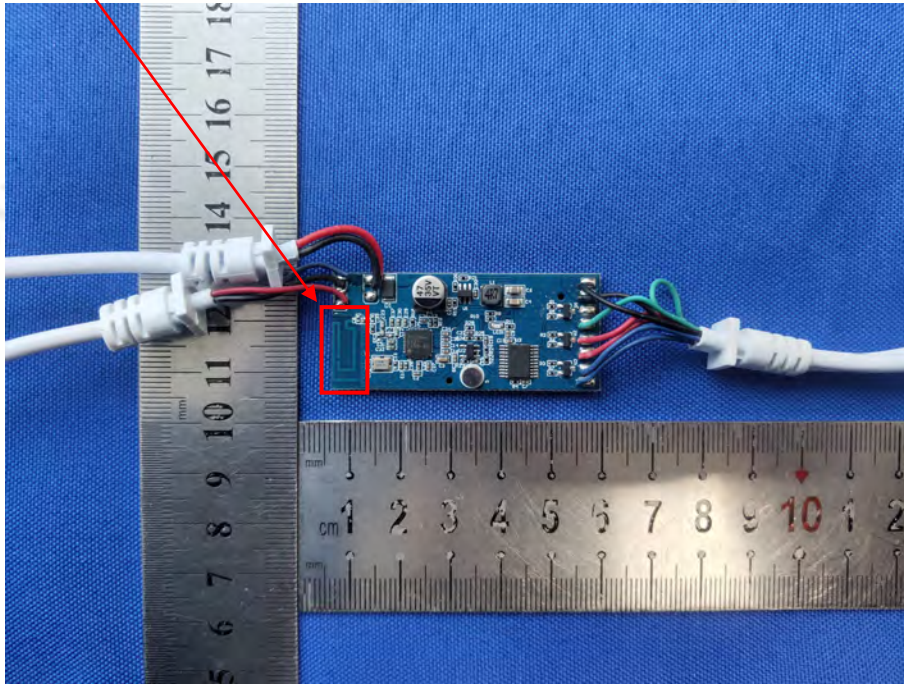
Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA:

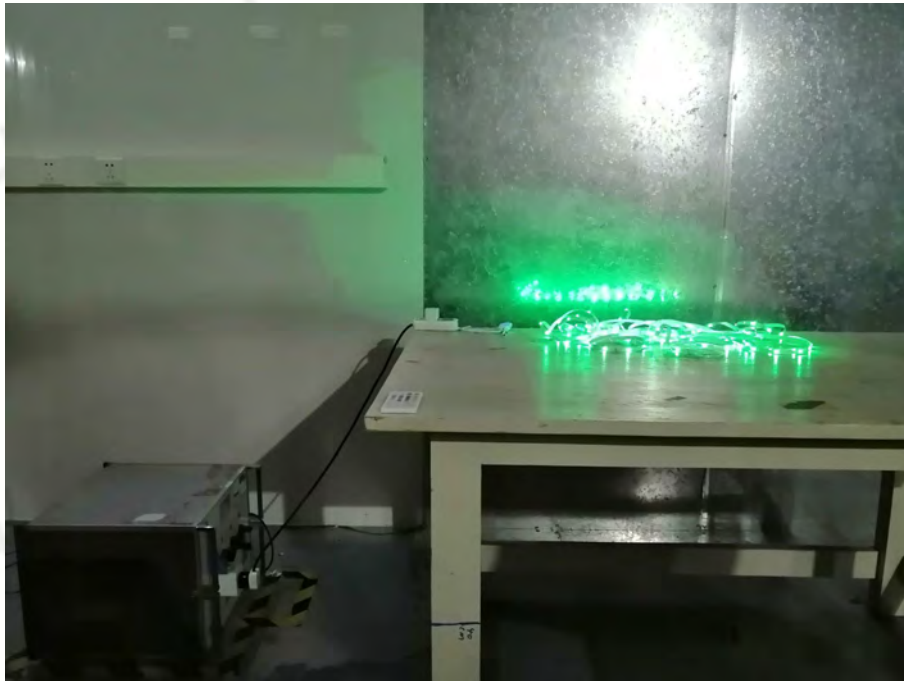


10 PHOTO OF TEST

10.1 RADIATED EMISSION



10.2 CONDUCTED EMISSION



End of Report