



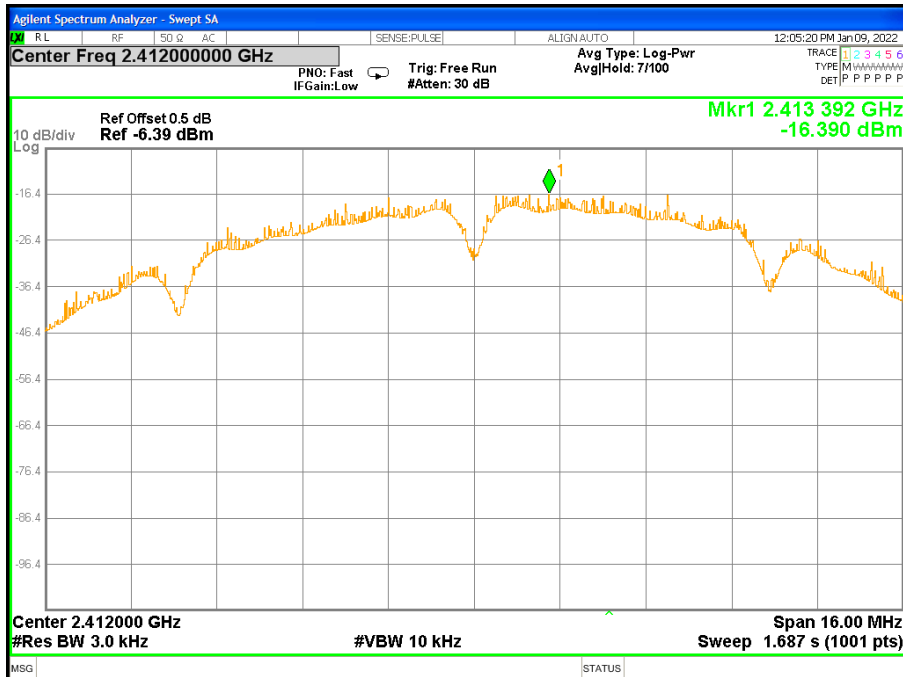
5.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Test Mode:	TX b/g/n20/n40 Mode

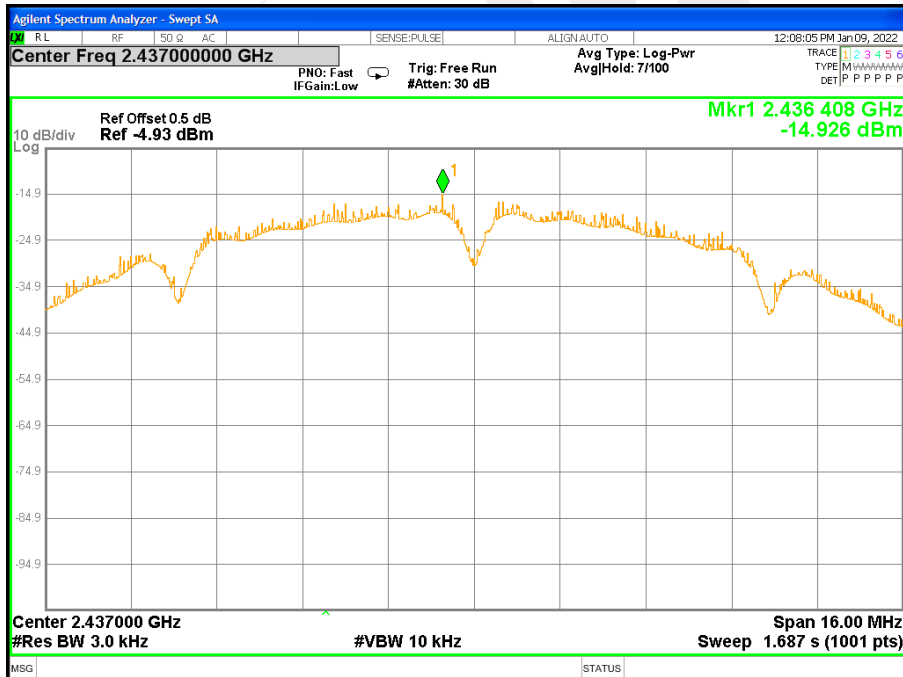
Modulation	Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
802.11b	2412	-16.390	8	Pass
	2437	-14.926	8	Pass
	2462	-15.058	8	Pass
802.11g	2412	-23.922	8	Pass
	2437	-24.331	8	Pass
	2462	-21.218	8	Pass
802.11n(HT20)	2412	-24.739	8	Pass
	2437	-25.326	8	Pass
	2462	-24.278	8	Pass
802.11n(HT40)	2422	-24.847	8	Pass
	2437	-26.260	8	Pass
	2452	-26.434	8	Pass



802.11b TX CH01

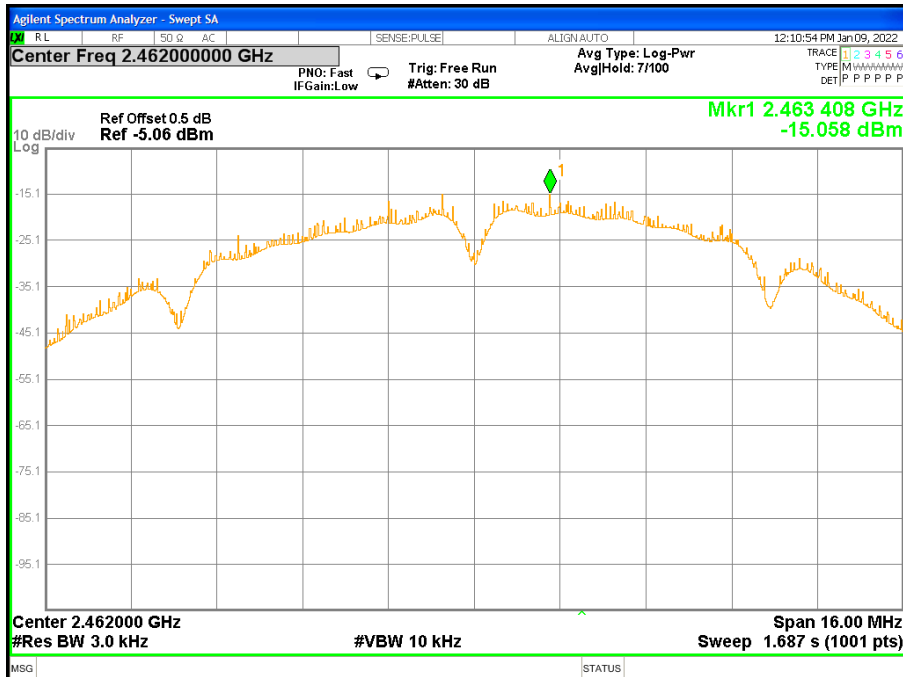


802.11b TX CH06

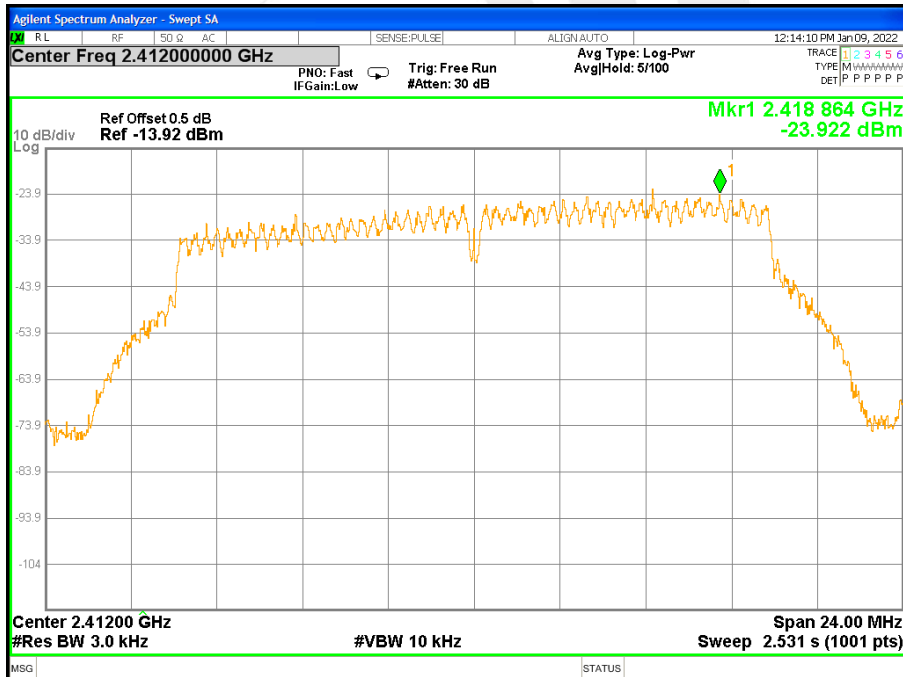




802.11b TX CH11

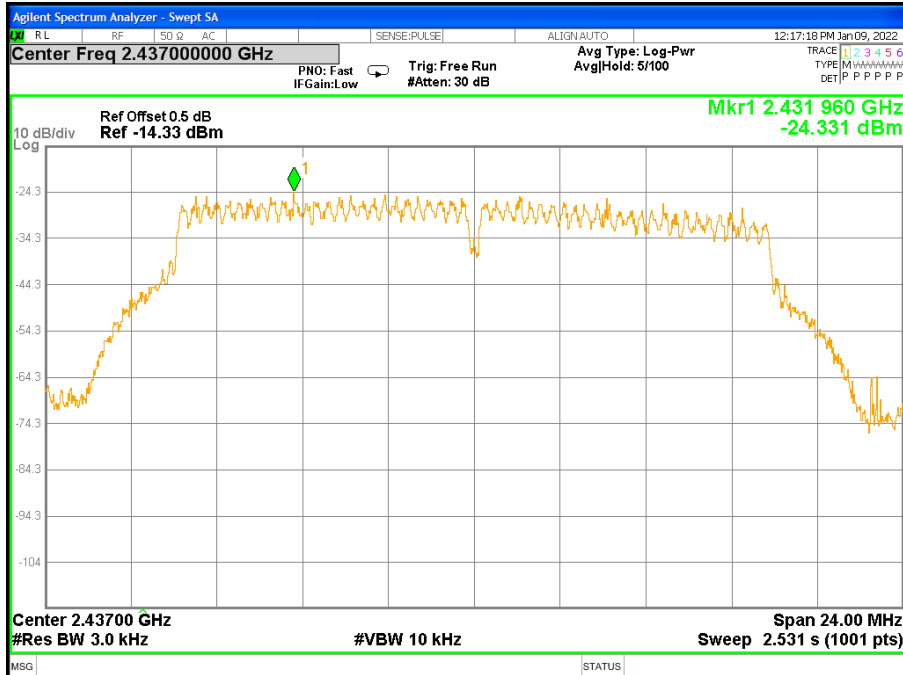


802.11g TX CH01

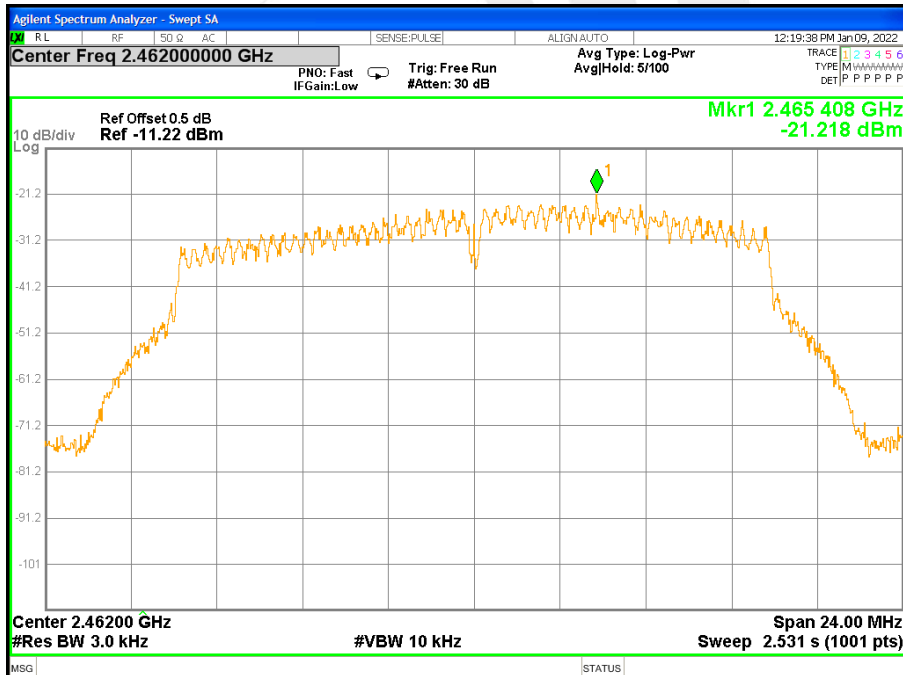




802.11g TX CH06

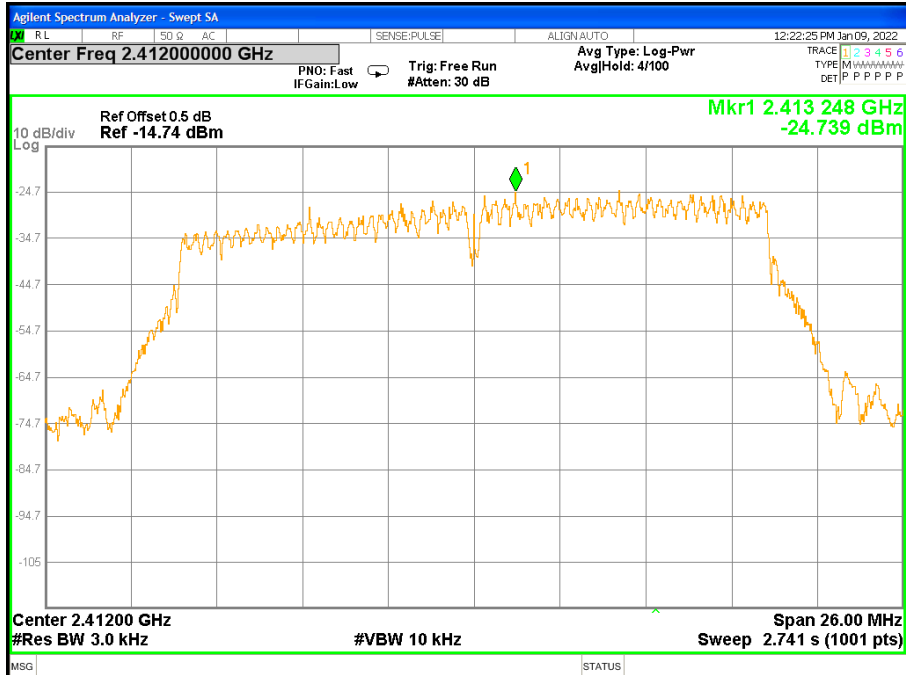


802.11g TX CH11

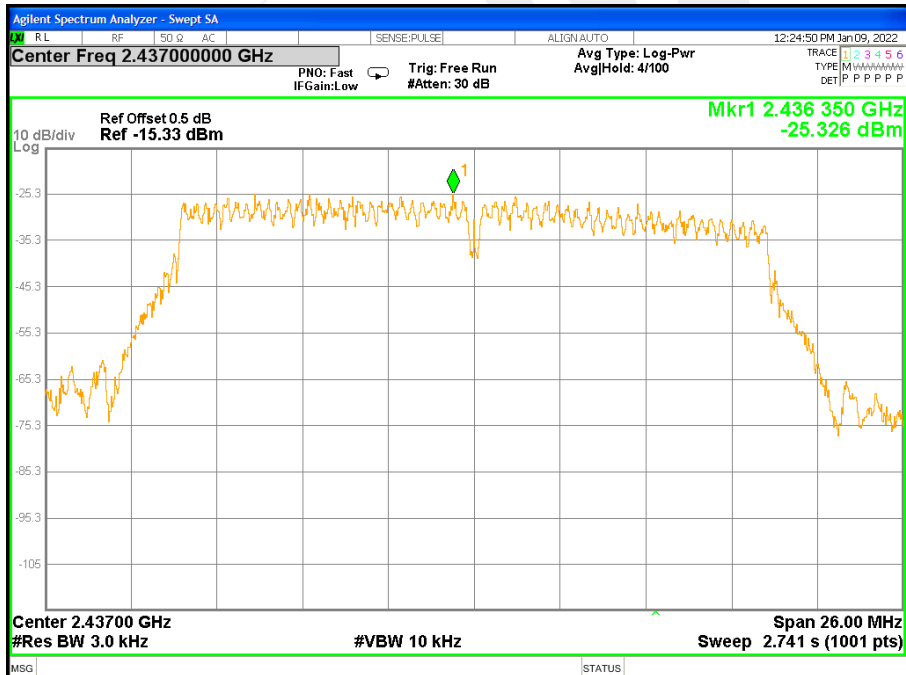




802.11n(HT20) TX CH01

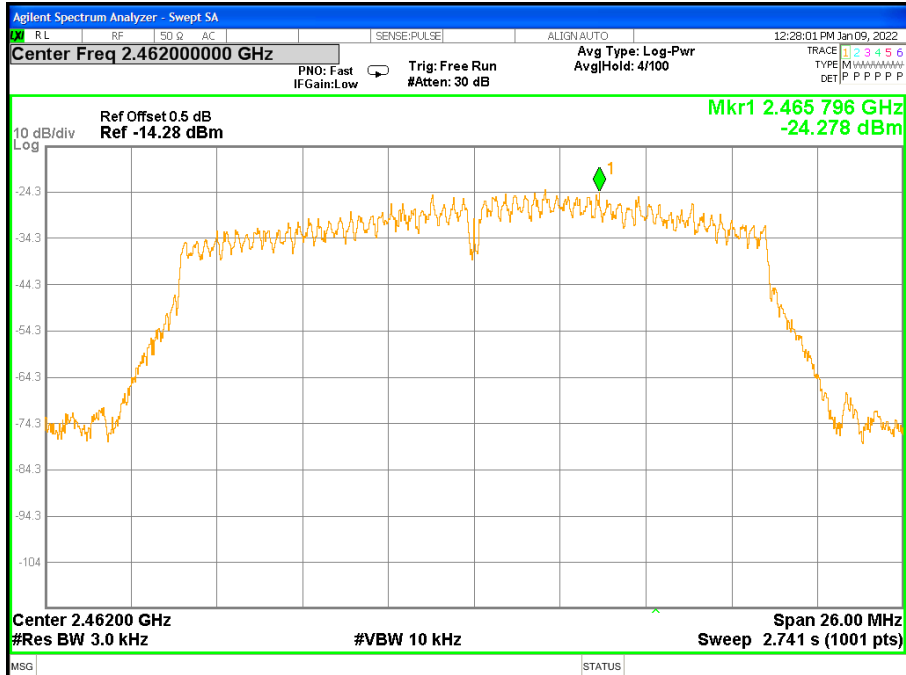


802.11n(HT20) TX CH06

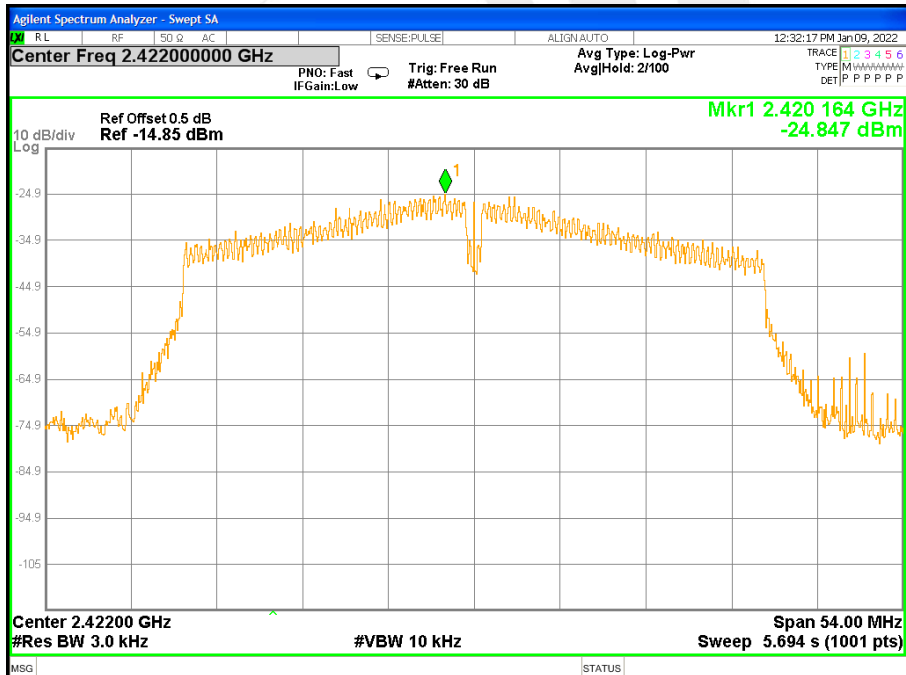




802.11n(HT20) TX CH11

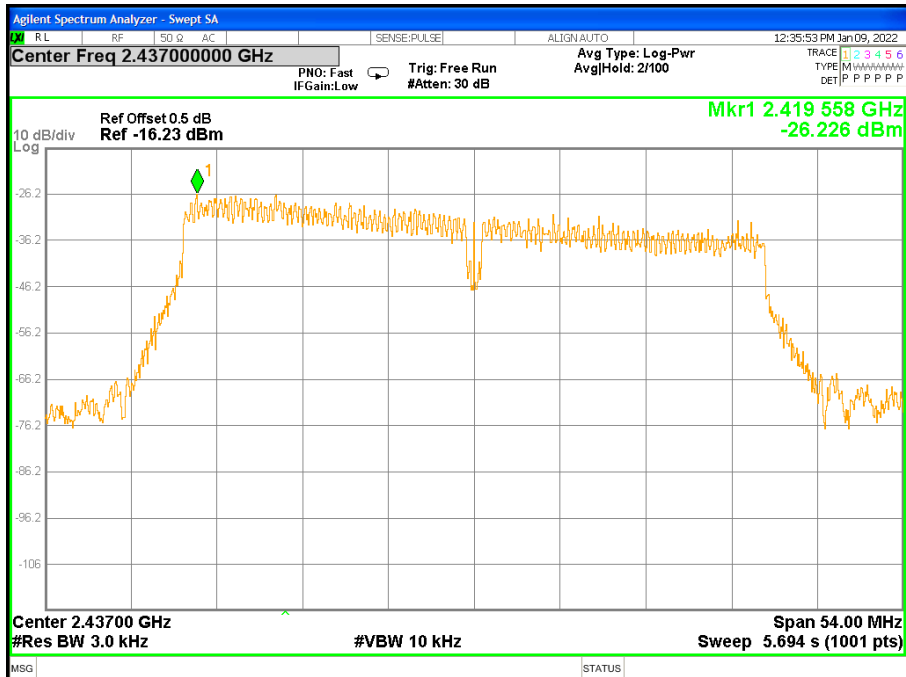


802.11n(HT40) TX CH03

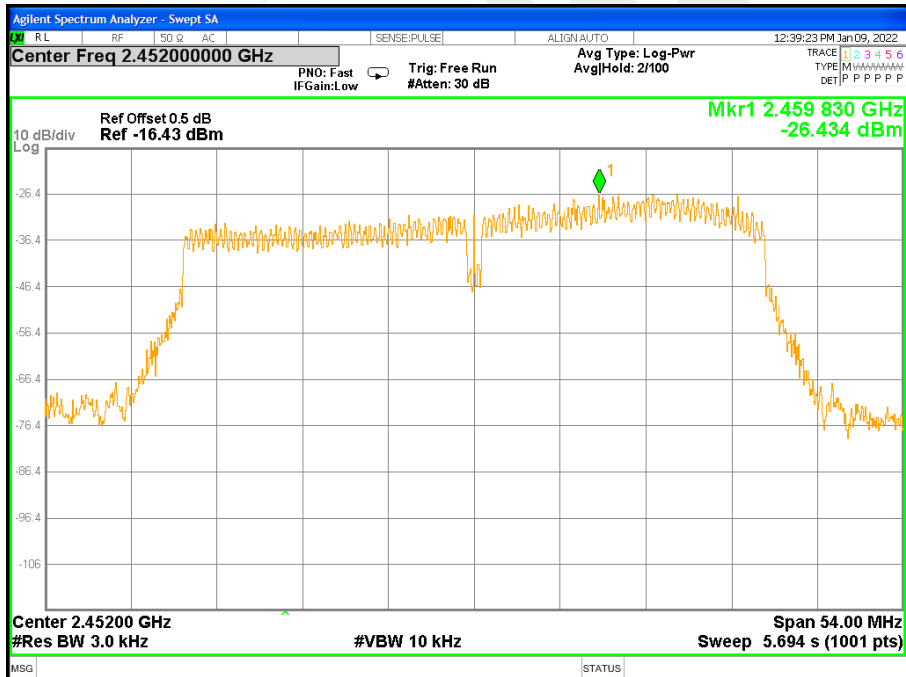




802.11n(HT40) TX CH06



802.11n(HT40) TX CH09



6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.



6.6 TEST RESULTS

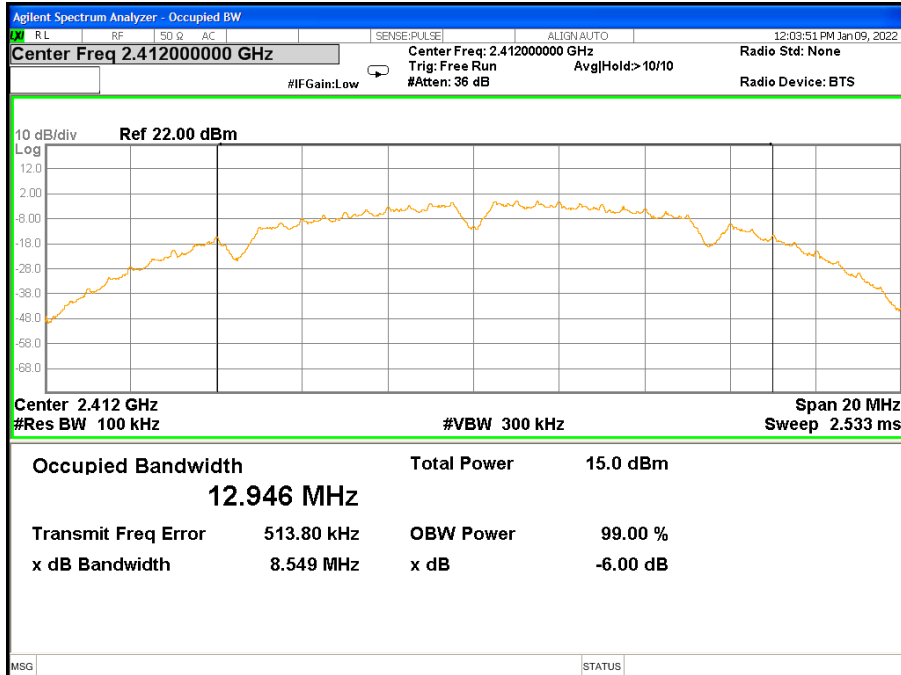
Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Test Mode:	TX b/g/n20/n40 Mode

Remark: PEAK DETECTOR IS USED

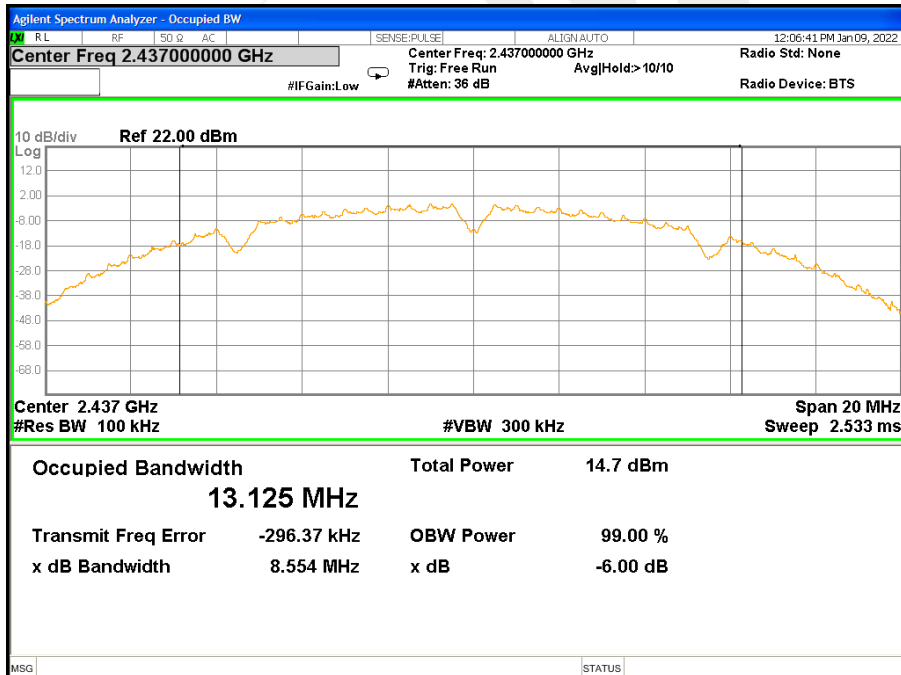
Modulation	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11b	2412	8.549	500	Pass
	2437	8.554	500	Pass
	2462	7.558	500	Pass
802.11g	2412	14.48	500	Pass
	2437	15.74	500	Pass
	2462	11.33	500	Pass
802.11n(HT20)	2412	15.08	500	Pass
	2437	16.35	500	Pass
	2462	12.56	500	Pass
802.11n(HT40)	2422	15.06	500	Pass
	2437	21.92	500	Pass
	2452	22.59	500	Pass



802.11b TX CH 01

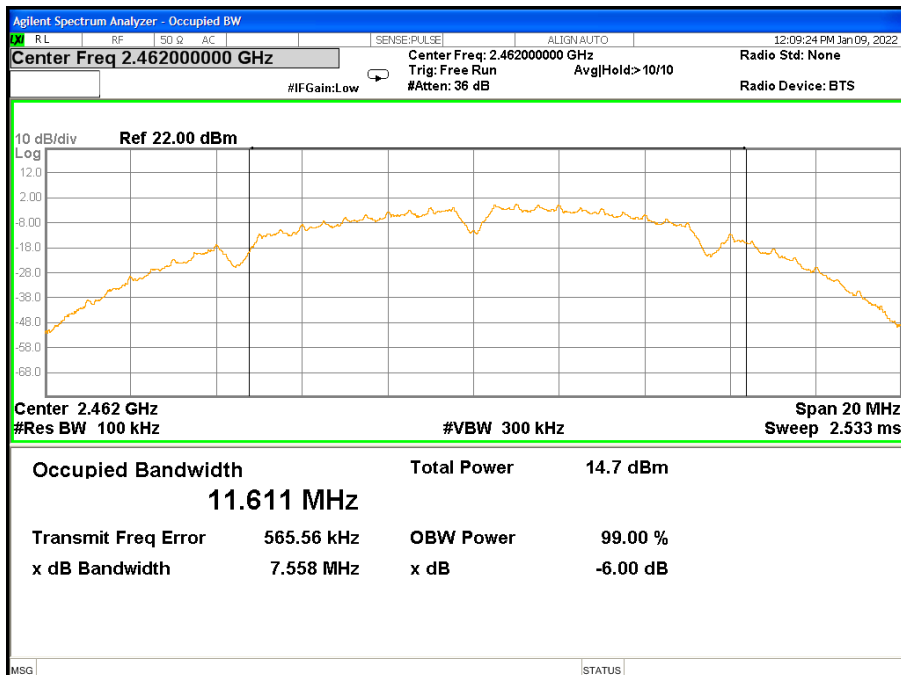


802.11b TX CH 06

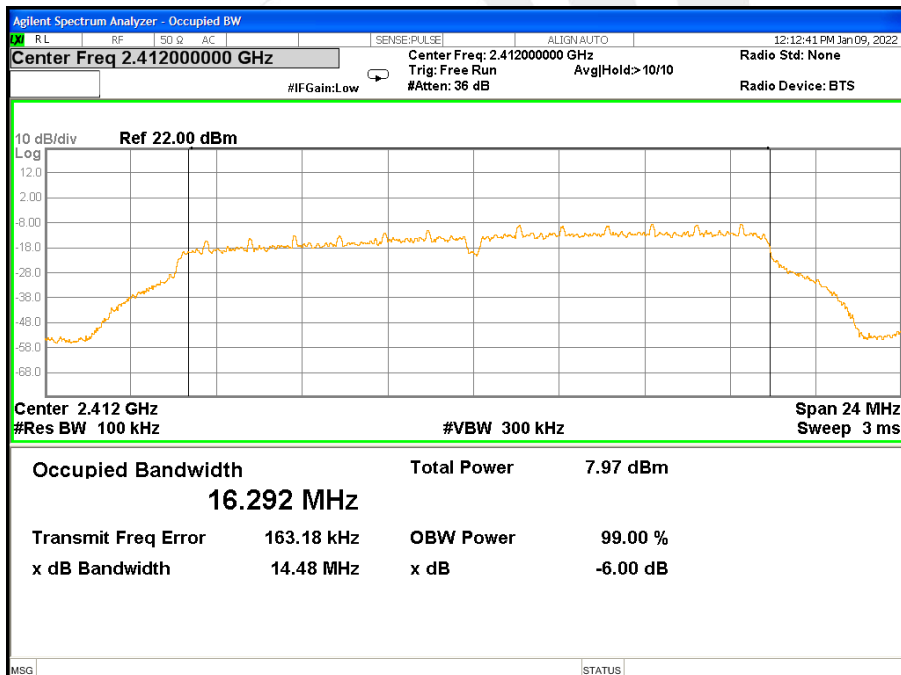




802.11b TX CH 11

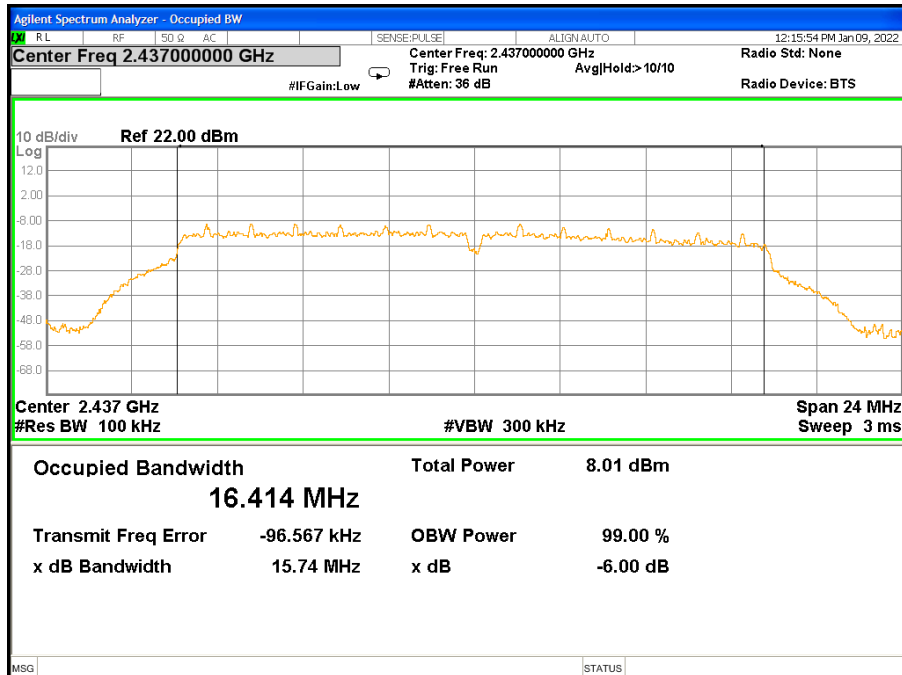


802.11g TX CH 01

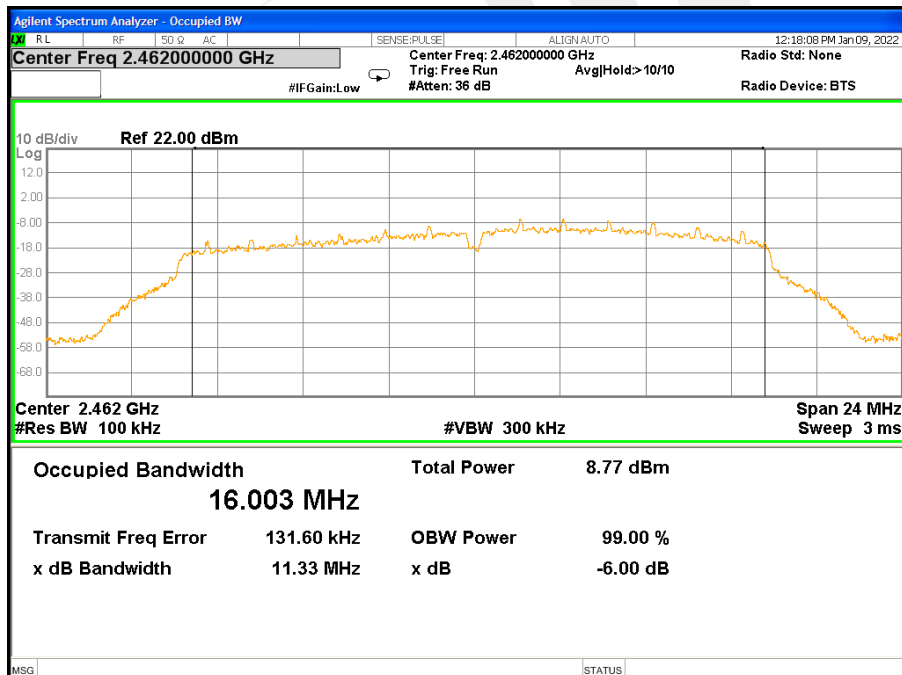




802.11g TX CH 06

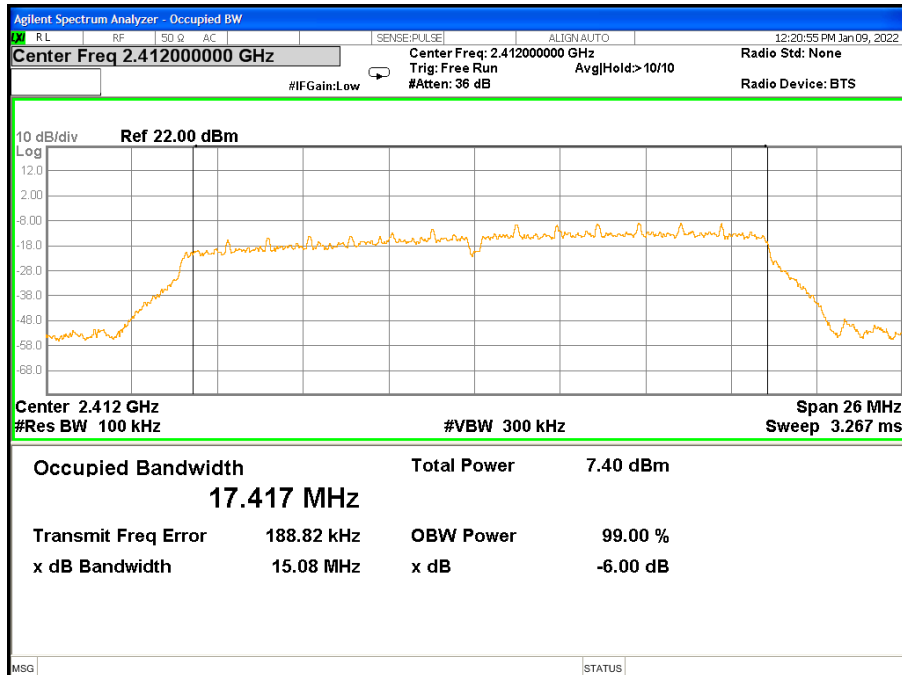


802.11g TX CH 11

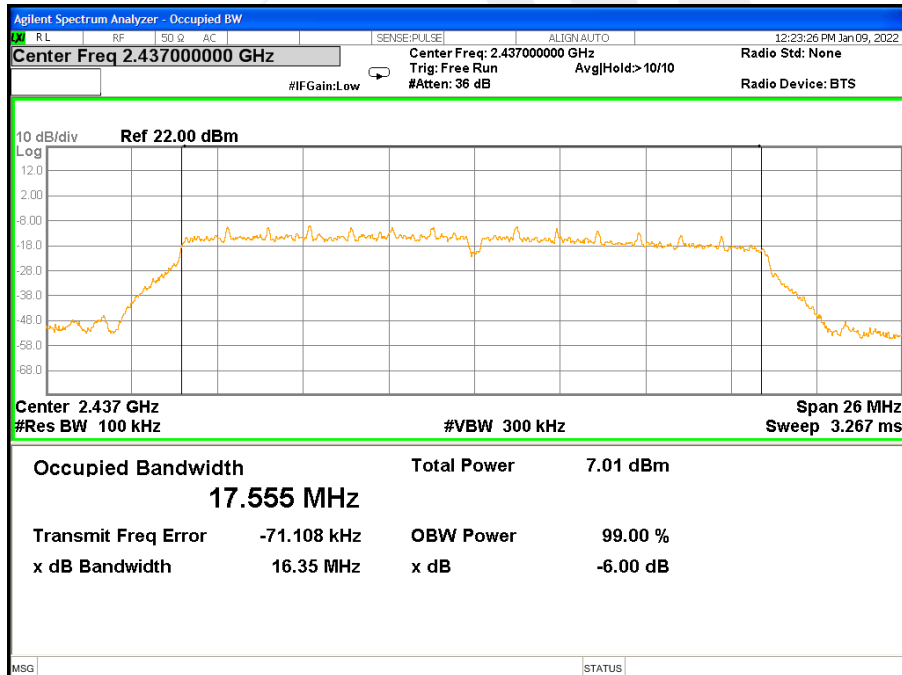




802.11n(HT20) TX CH 01

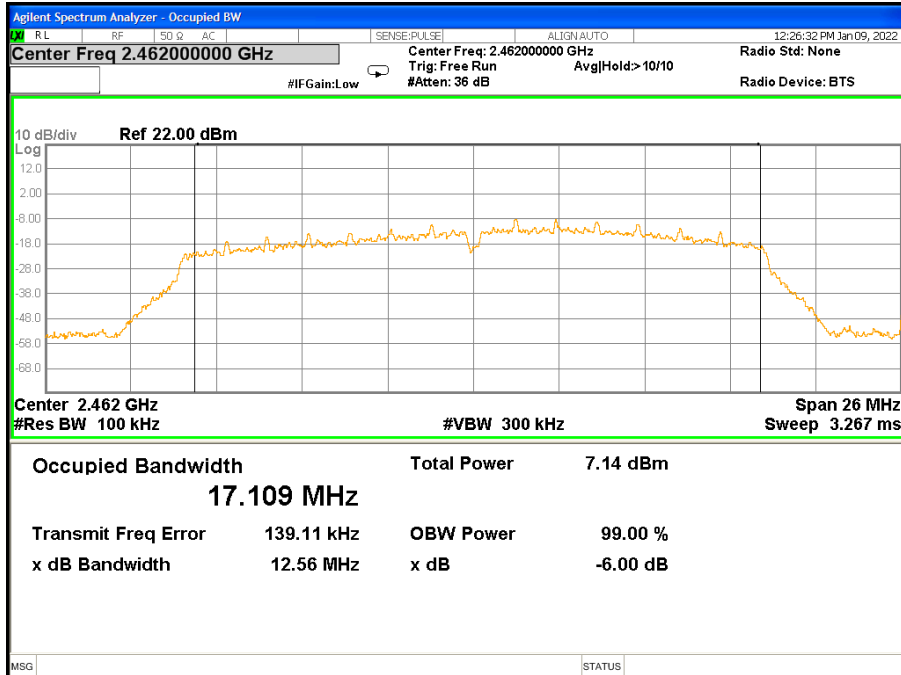


802.11n(HT20) TX CH 06

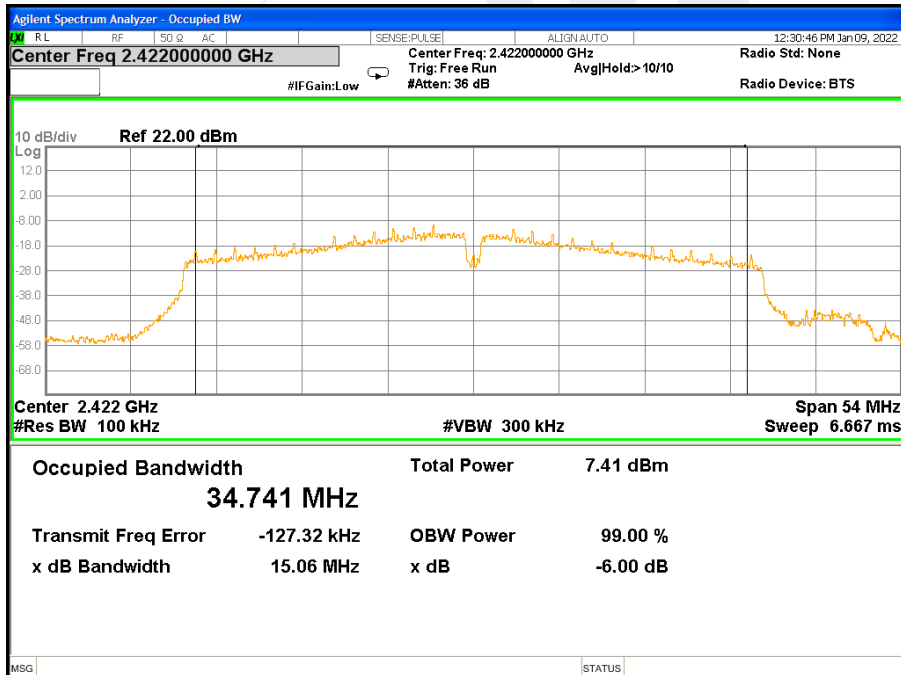




802.11n(HT20) TX CH 11

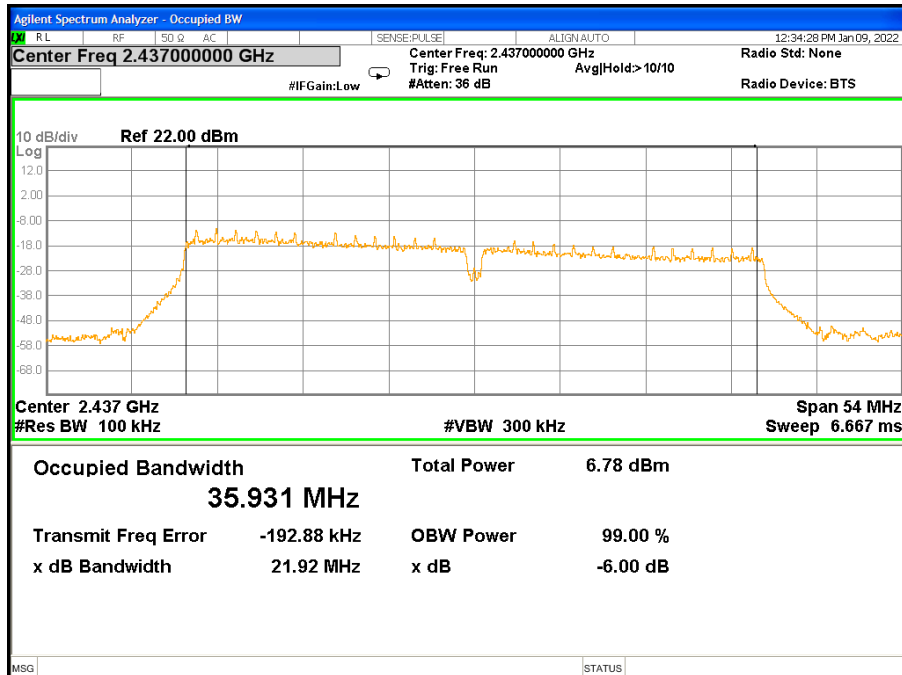


802.11n(HT40) TX CH 03

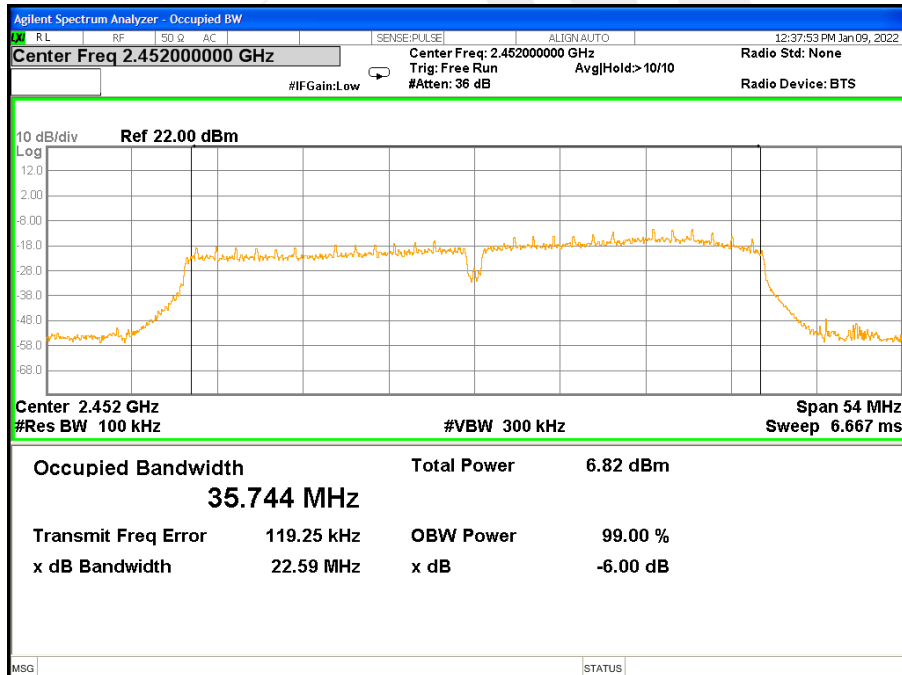




802.11n(HT40) TX CH 06



802.11n(HT40) TX CH 09





7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

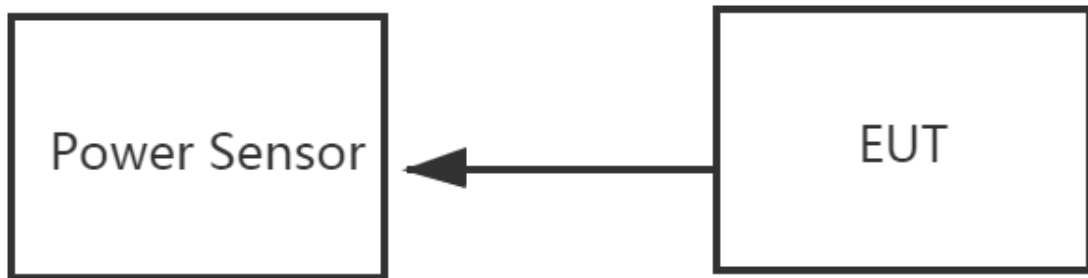
PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.





7.6 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.85V		

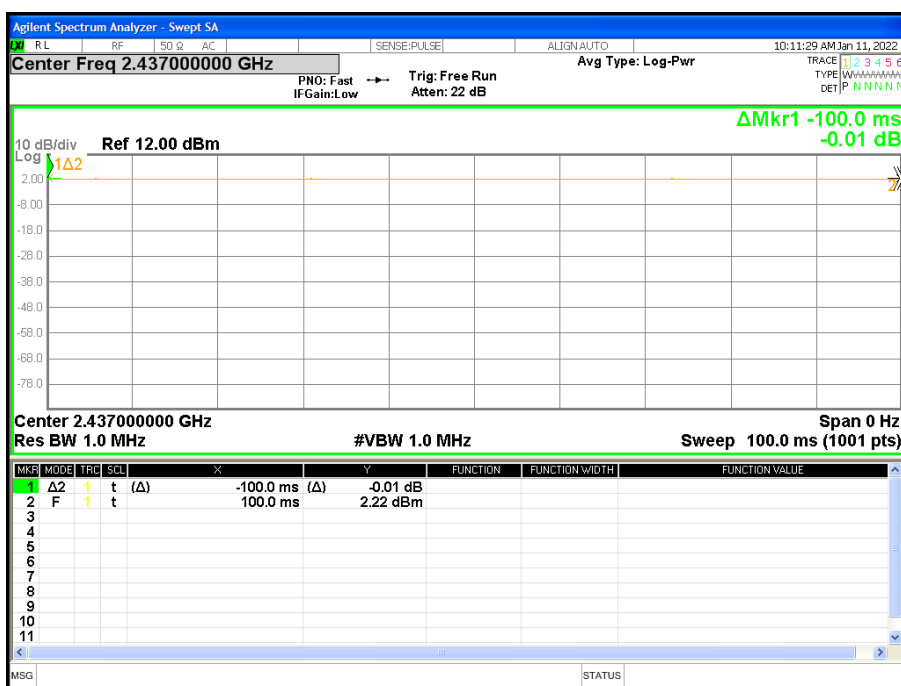
Modulation	Frequency (MHz)	Peak Output Power (dBm)	Average Reading Power (dBm)	Duty Cycle Factor (dB)	Final Average Output Power (dBm)	Limit (dBm)
802.11b	2412	11.42	9.22	0.00	9.22	30
	2437	11.17	8.77	0.00	8.77	30
	2462	11.40	8.90	0.00	8.90	30
802.11g	2412	12.08	2.19	0.07	2.26	30
	2437	11.98	1.98	0.07	2.05	30
	2462	12.81	2.25	0.07	2.32	30
802.11n(HT20)	2412	12.67	1.39	0.09	1.48	30
	2437	12.93	1.12	0.09	1.21	30
	2462	12.66	1.07	0.09	1.16	30
802.11n(HT40)	2422	11.12	1.69	0.19	1.88	30
	2437	11.65	0.89	0.19	1.09	30
	2452	11.90	0.72	0.19	0.91	30



Duty cycle

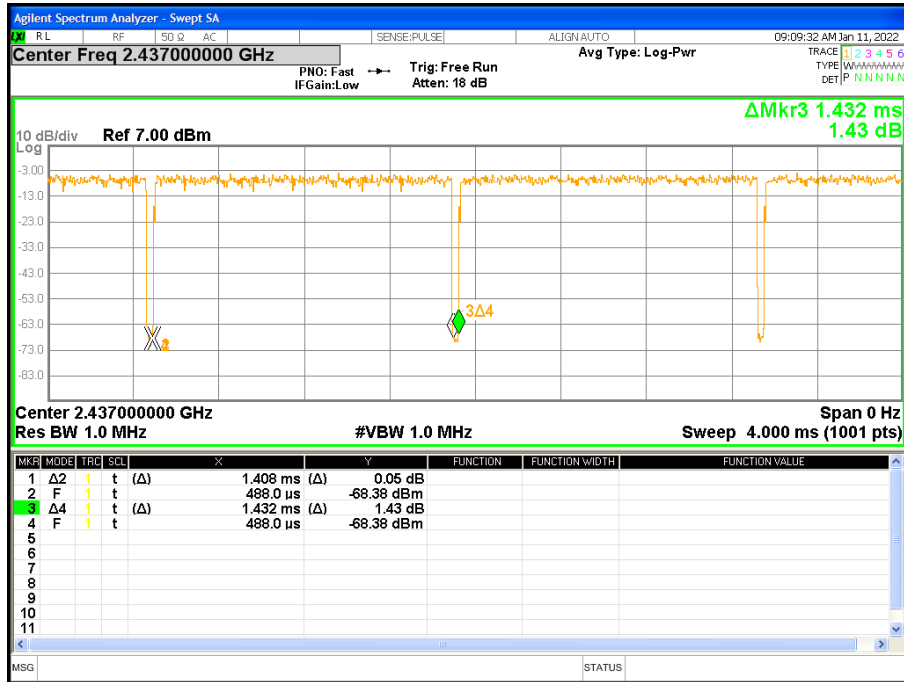
Modulation	Frequency (MHz)	TOn (ms)	TP (ms)	Duty cycle (%)	Duty Cycle Factor (dB)
802.11b	2437	100.0000	100.0000	100.00%	0.00
802.11g	2437	1.4080	1.4320	98.32%	0.07
802.11n(HT20)	2437	1.3080	1.3360	97.90%	0.09
802.11n(HT40)	2437	0.6560	0.6860	95.63%	0.19

802.11b



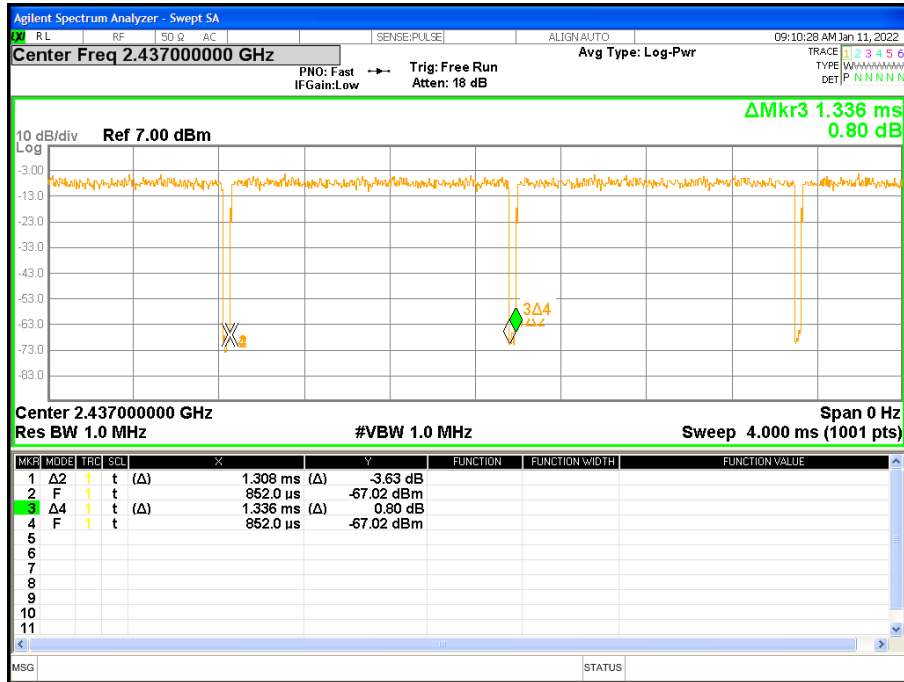


802.11g





802.11n(HT20)



802.11n(HT40)





8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****

