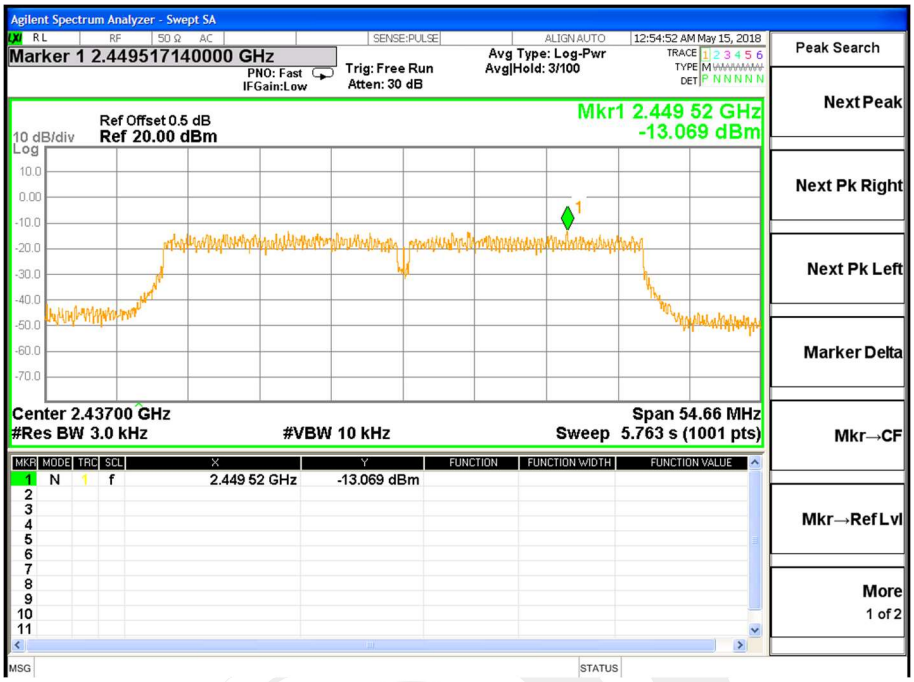
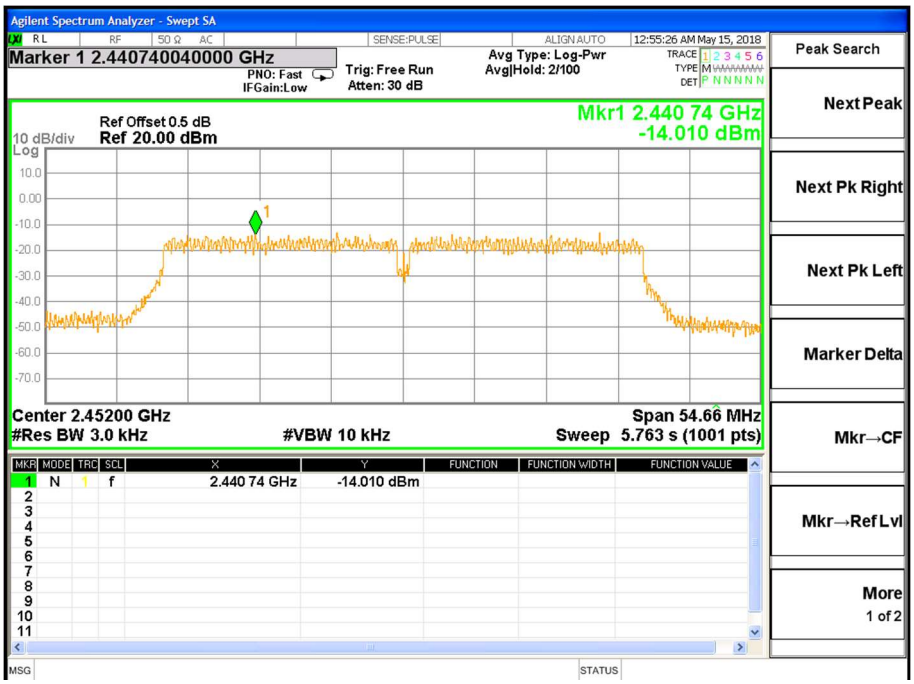
TX CH06



TX CH09



6 BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2 & RSS-Gen Issue 5				
Section	**Test Item**	**Limit**	**Frequency Range (MHz)**	**Result**
15.247(a)(2) RSS-247 Clause 5.2(b)	6dB Bandwidth	≥ 500KHz	2400-2483.5	PASS
RSS-Gen Clause 6.6	99% Bandwidth	-	2400-2483.5	PASS

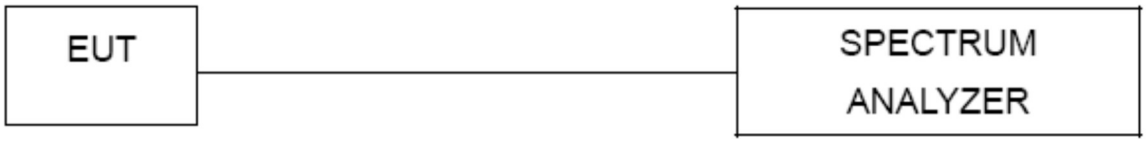
6.2 TEST PROCEDURE

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≥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

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

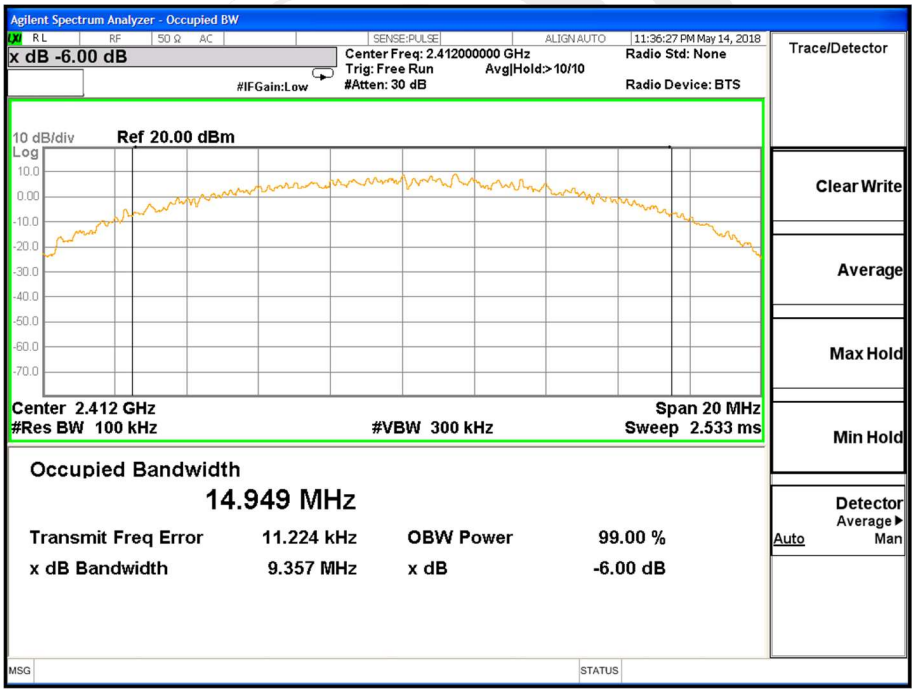
6.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX b Mode /CH01, CH06, CH11

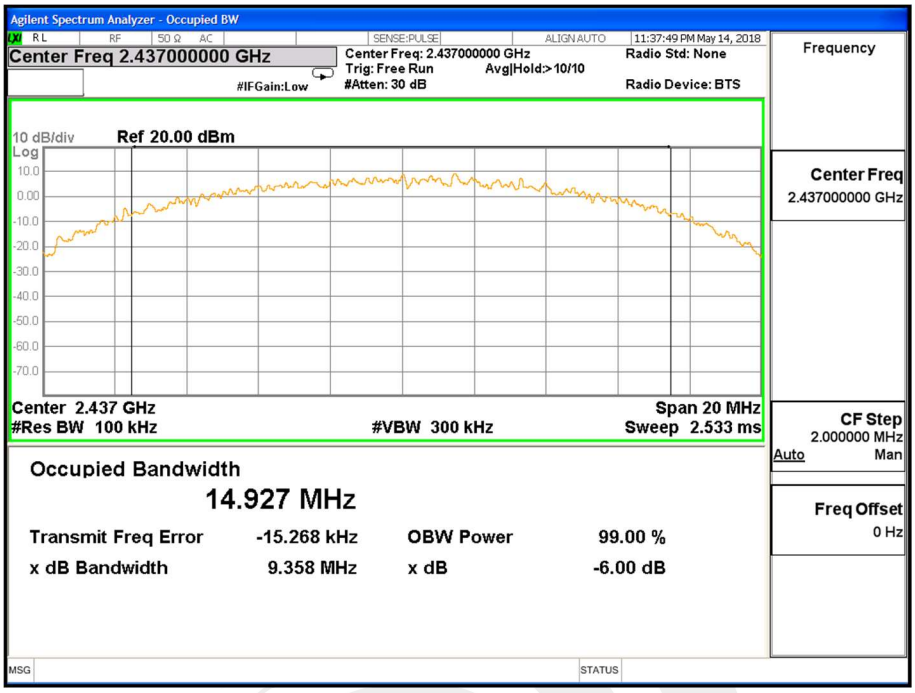
Remark: PEAK DETECTOR IS USED

Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	Result
b mode (1 Mbps)	2412.00	9.36	14.95	≥ 0.50	PASS
	2437.00	9.36	14.93	≥ 0.50	PASS
	2462.00	9.36	14.90	≥ 0.50	PASS

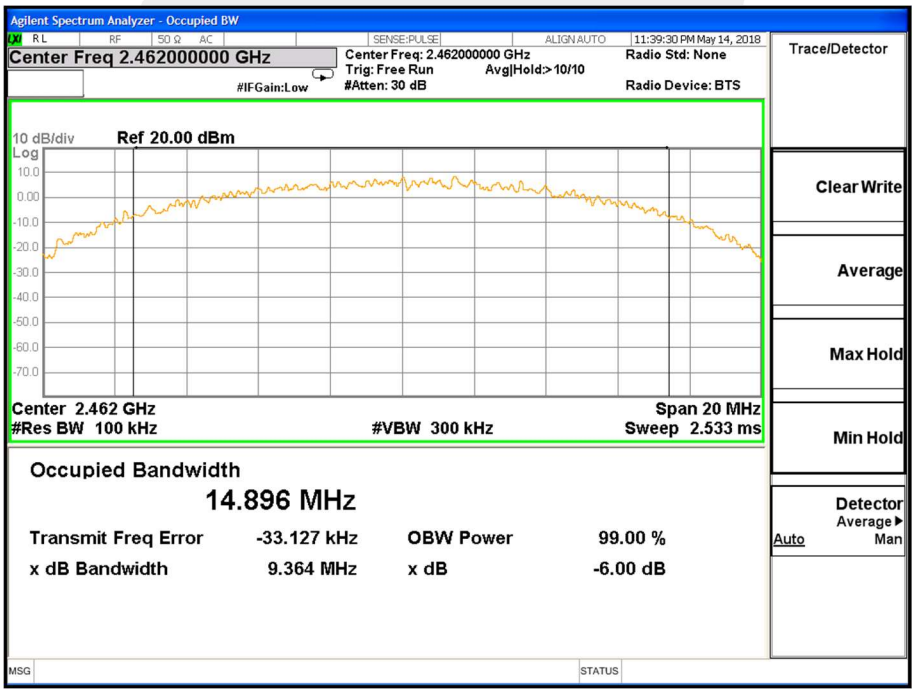
TX CH 01



TX CH 06



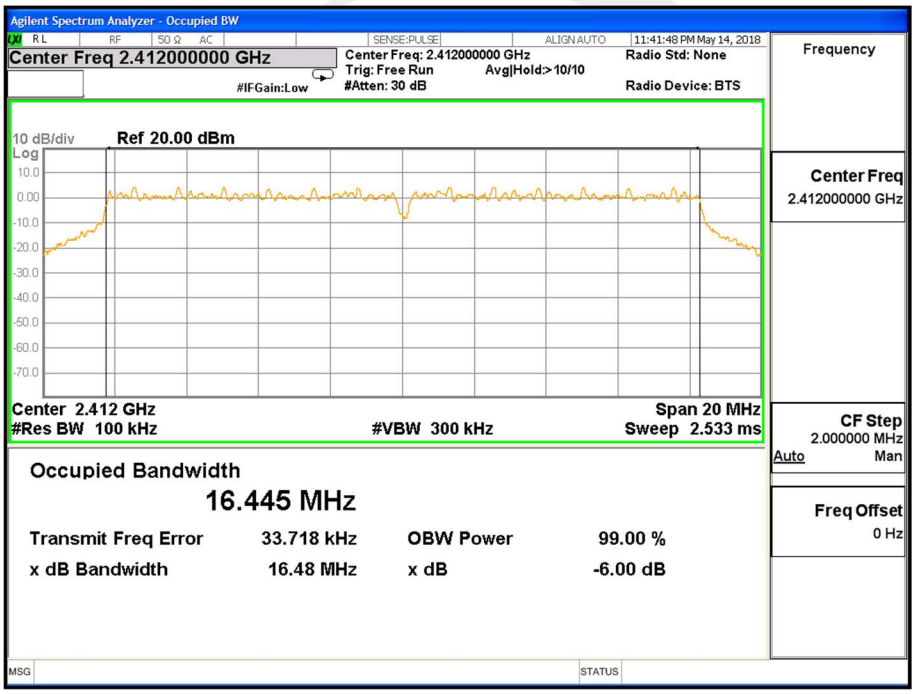
TX CH 11



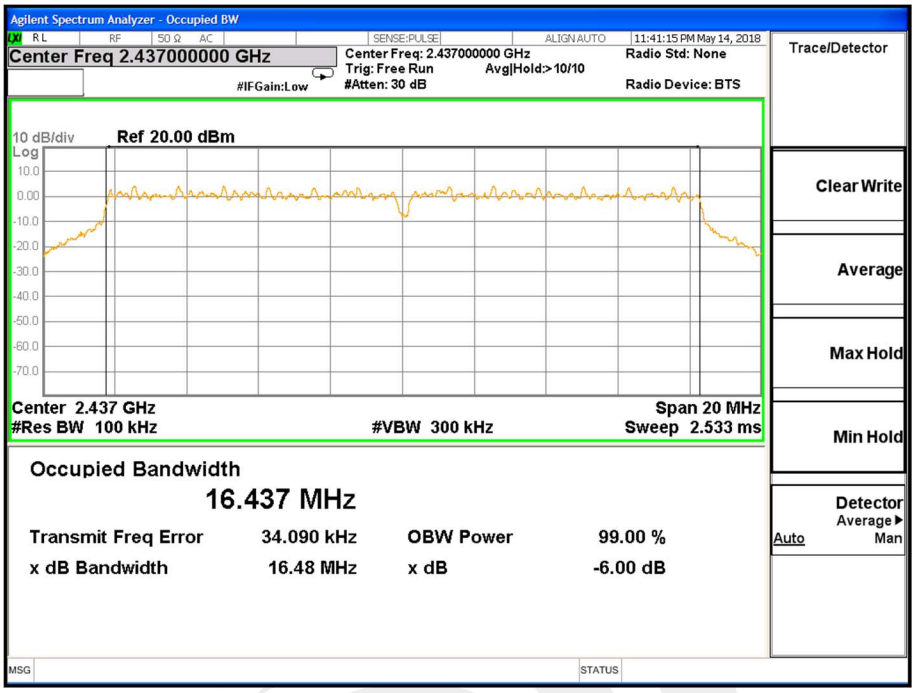
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX g Mode /CH01, CH06, CH11

Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	Result
g mode (6 Mbps)	2412.00	16.48	16.45	≥ 0.50	PASS
	2437.00	16.48	16.44	≥ 0.50	PASS
	2462.00	16.48	16.44	≥ 0.50	PASS

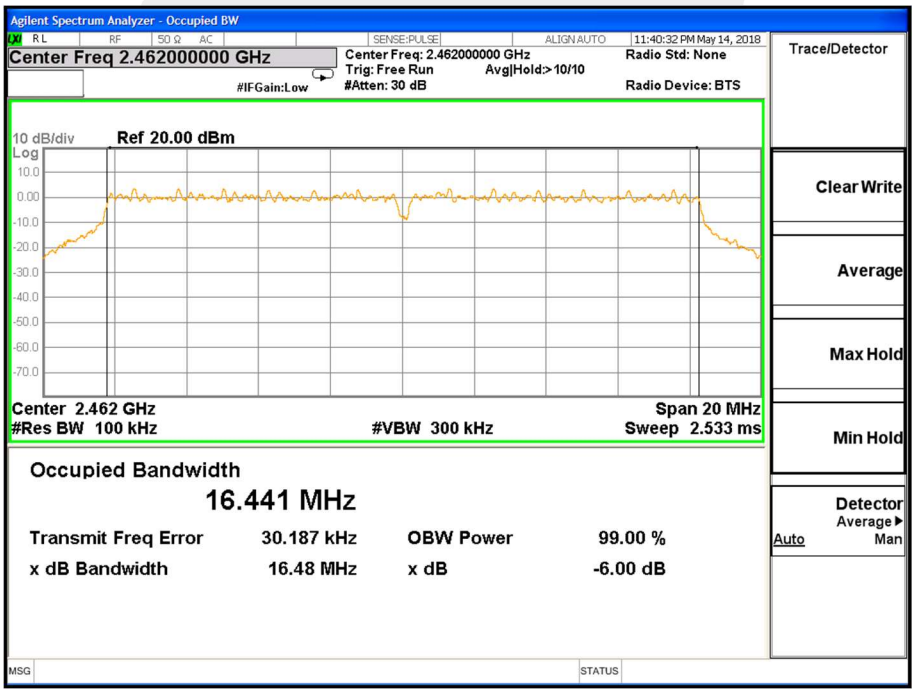
TX CH 01



TX CH 06



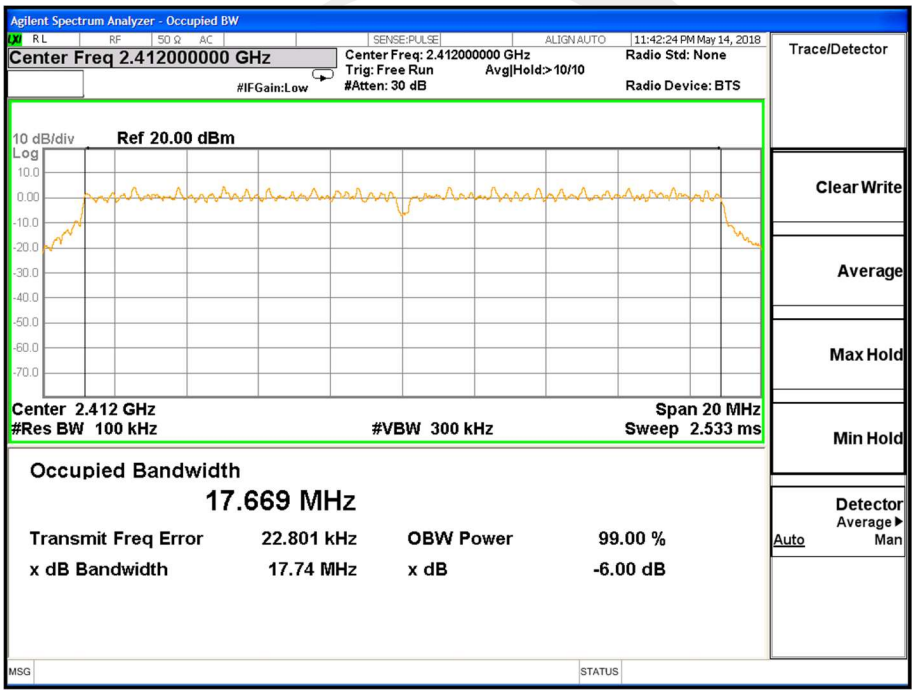
TX CH 11



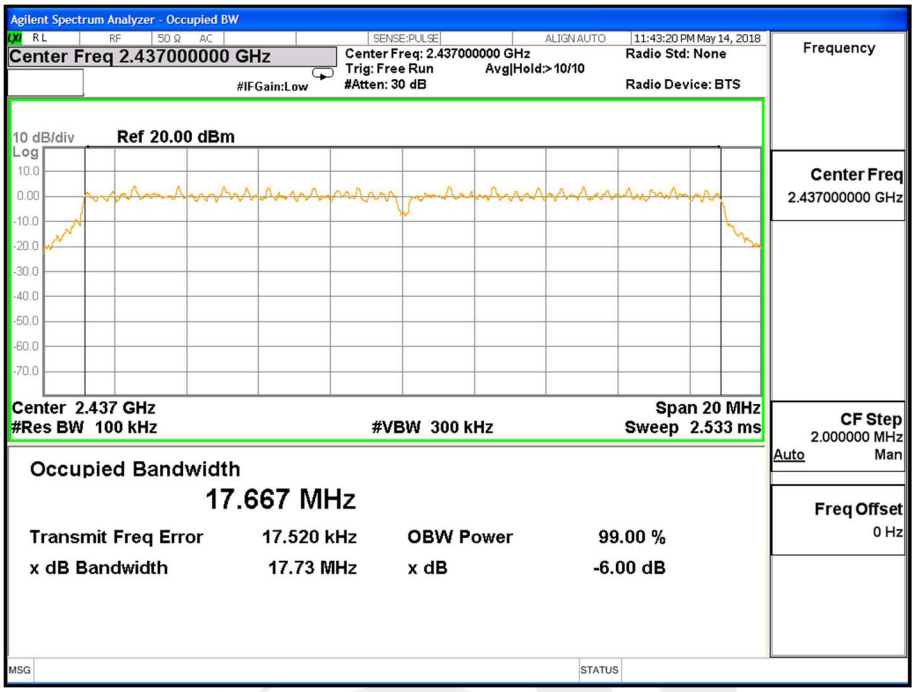
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	Result
n(HT20) mode (MCS0)	2412.00	17.74	17.67	≥ 0.50	PASS
	2437.00	17.73	17.67	≥ 0.50	PASS
	2462.00	17.76	17.67	≥ 0.50	PASS

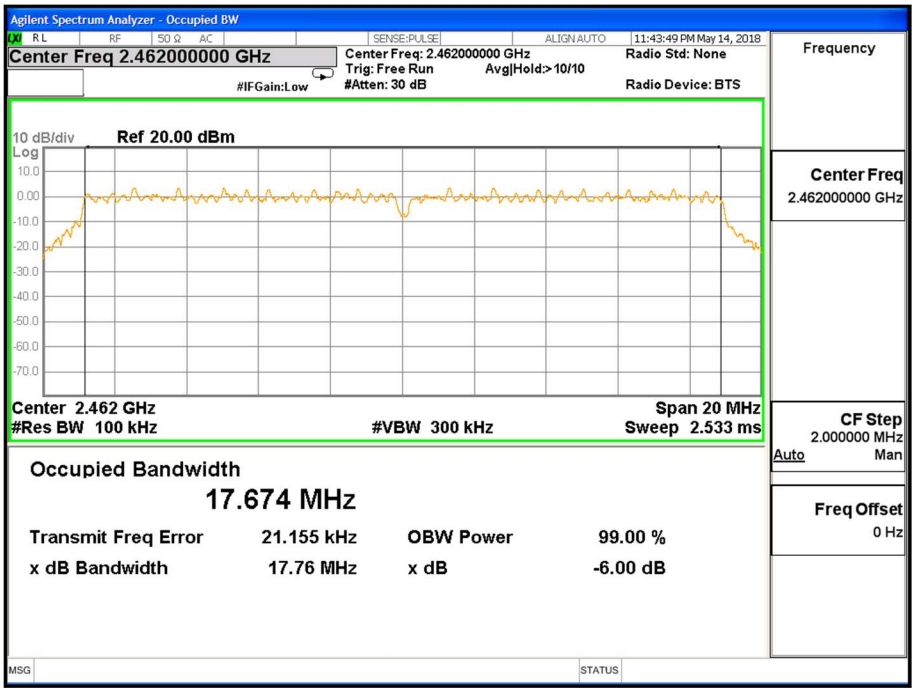
TX CH 01



TX CH 06



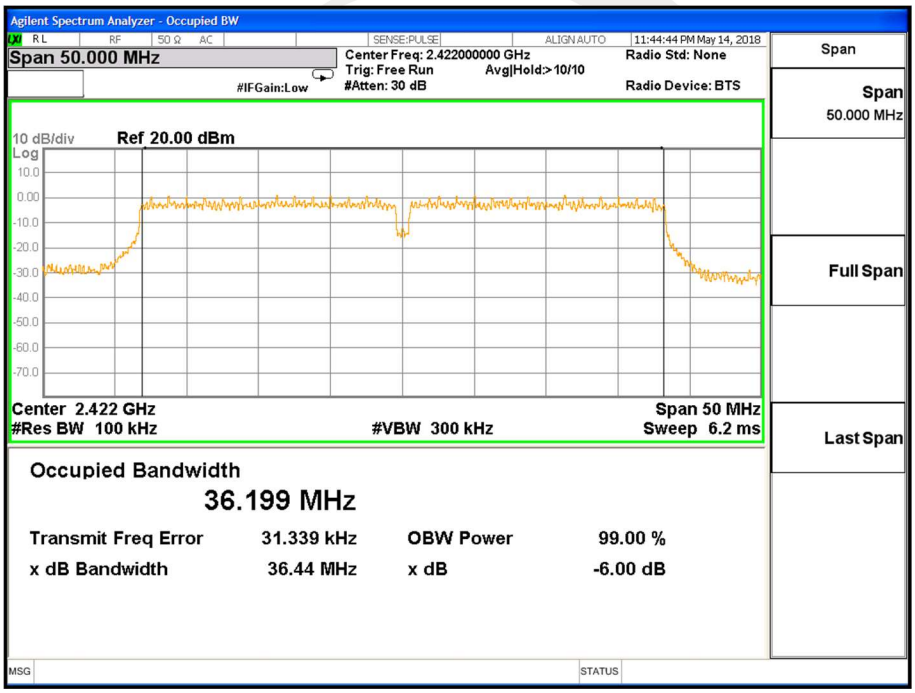
TX CH 11



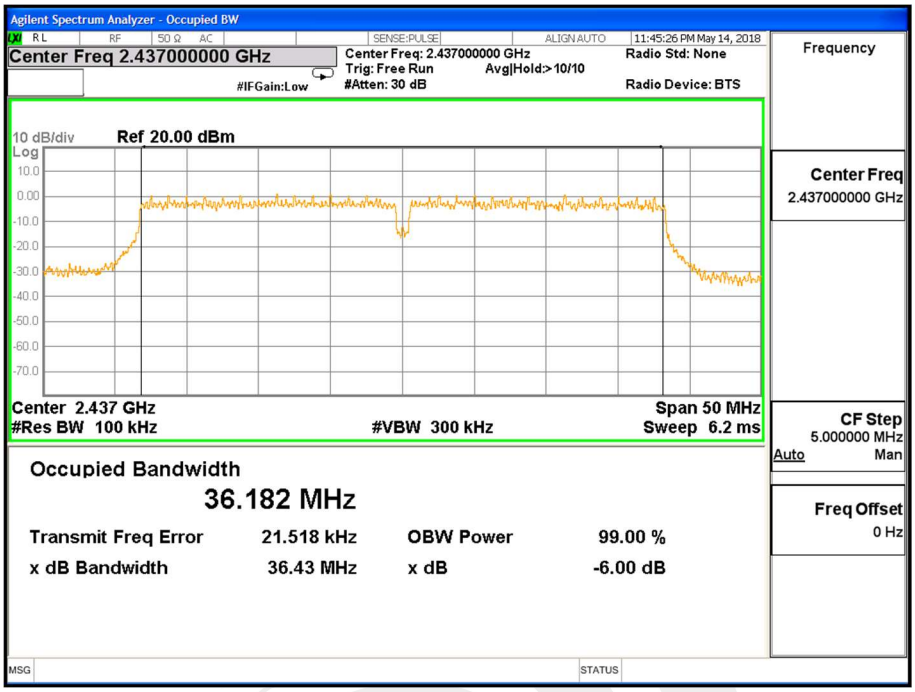
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	Result
n(HT40) mode (MCS0)	2422.00	36.44	36.20	≥ 0.50	PASS
	2437.00	36.43	36.18	≥ 0.50	PASS
	2452.00	36.44	36.18	≥ 0.50	PASS

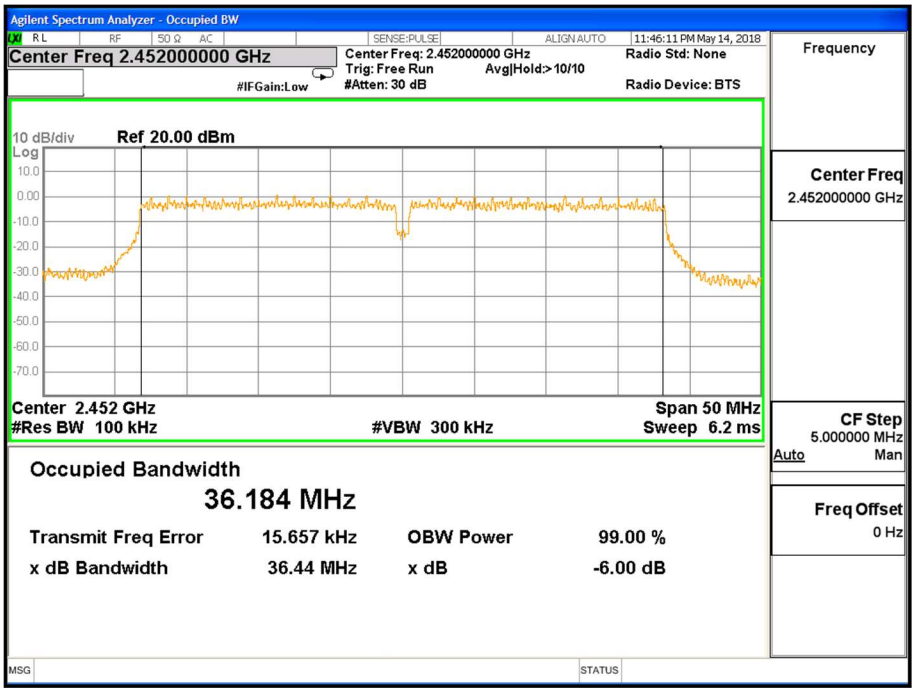
TX CH 03



TX CH 06



TX CH 09



7 PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 Clause 5.4(d)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Meter

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Temperature：	25 ℃	Relative Humidity：	60%
Test Voltage ：	DC 3.8V		

TX 802.11 b mode (1 Mbps)				
Test Channel	Frequency (MHz)	Conducted Output Power		Limit (dBm)
		Peak(dBm)	AVG(dBm)	
CH01	2412.00	19.06	18.64	30.00
CH06	2437.00	18.52	18.10	30.00
CH11	2462.00	18.28	17.86	30.00

TX 802.11 g mode (6 Mbps)				
Test Channel	Frequency (MHz)	Conducted Output Power		Limit (dBm)
		Peak(dBm)	AVG(dBm)	
CH01	2412.00	16.78	16.66	30.00
CH06	2437.00	16.31	16.21	30.00
CH11	2462.00	16.00	15.90	30.00

TX 802.11 n(HT20) mode (MCS0)				
Test Channel	Frequency (MHz)	Conducted Output Power		Limit (dBm)
		Peak(dBm)	AVG(dBm)	
CH01	2412.00	16.82	16.45	30.00
CH06	2437.00	16.45	16.08	30.00
CH11	2462.00	16.44	16.07	30.00

TX 802.11 n(HT40) mode (MCS0)				
Test Channel	Frequency (MHz)	Conducted Output Power		Limit (dBm)
		Peak(dBm)	AVG(dBm)	
CH03	2422.00	16.99	16.75	30.00
CH06	2437.00	16.84	16.60	30.00
CH09	2452.00	16.52	16.28	30.00

Note:
1) The cable loss and antenna gain are taken into account in results.
2) Antenna gain(G): 0 dBi

8 ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

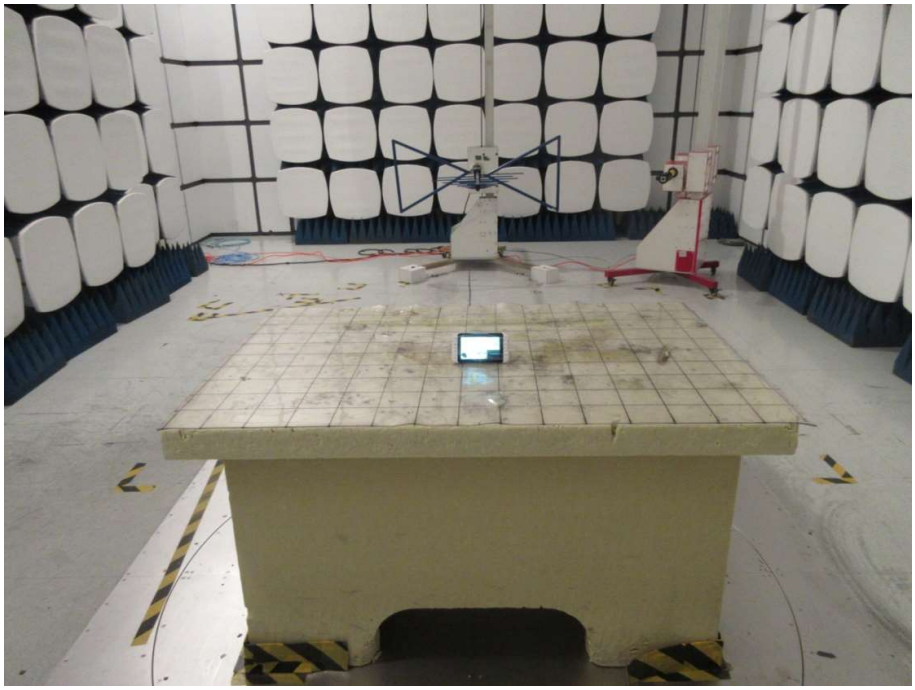
15.203 and RSS-Gen Issue 5 requirement: For intentional device, according to 15.203 and RSS-Gen Issue 5: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

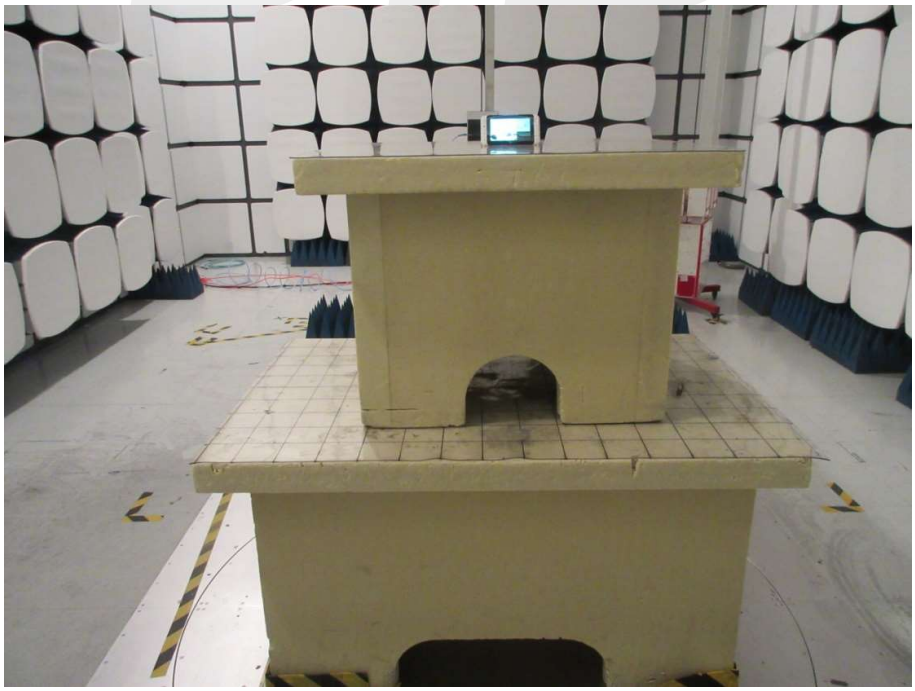
The EUT antenna is Integral Antenna. It comply with the standard requirement.

9 APPENDIX - PHOTOS OF TEST SETUP

Radiated SPURIOUS EMISSION SET-UP PHOTOS, 30MHz ~ 1GHz

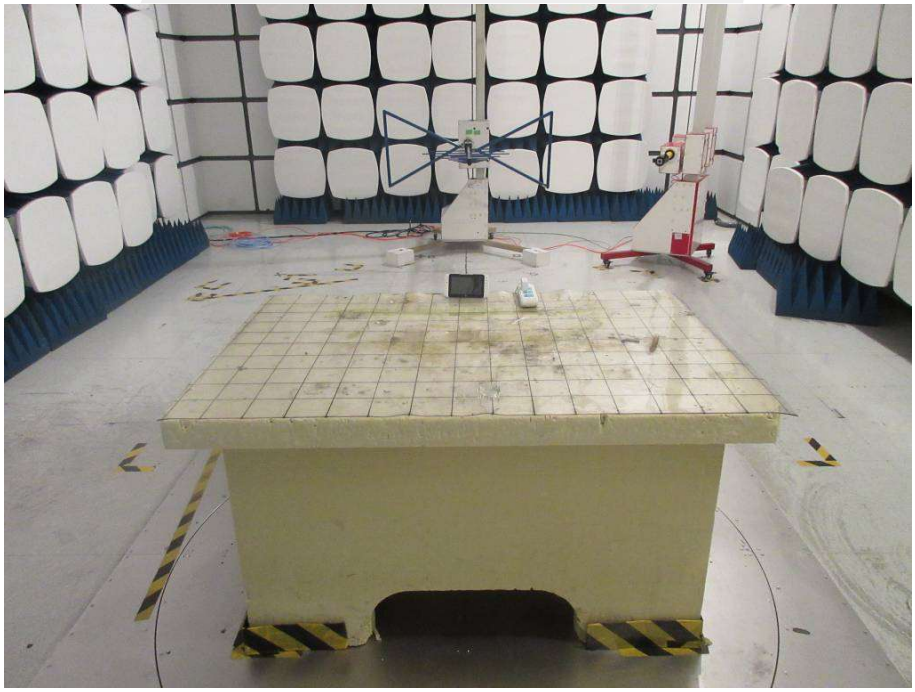


Radiated SPURIOUS EMISSION SET-UP PHOTOS, 1GHz ~ 18GHz

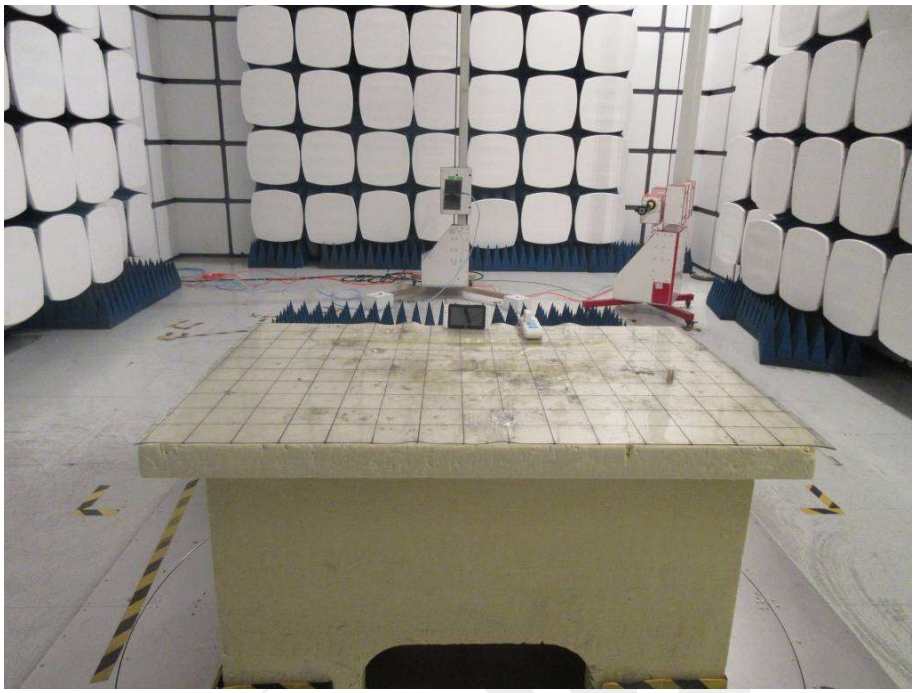


CONDUCTED EMISSION SET-UP PHOTOS

RADIATED EMISSION SET-UP PHOTOS, 30MHz ~ 1GHz



RADIATED EMISSION SET-UP PHOTOS, 1GHz ~ 6GHz



※※※※※END OF THE REPORT※※※※※

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