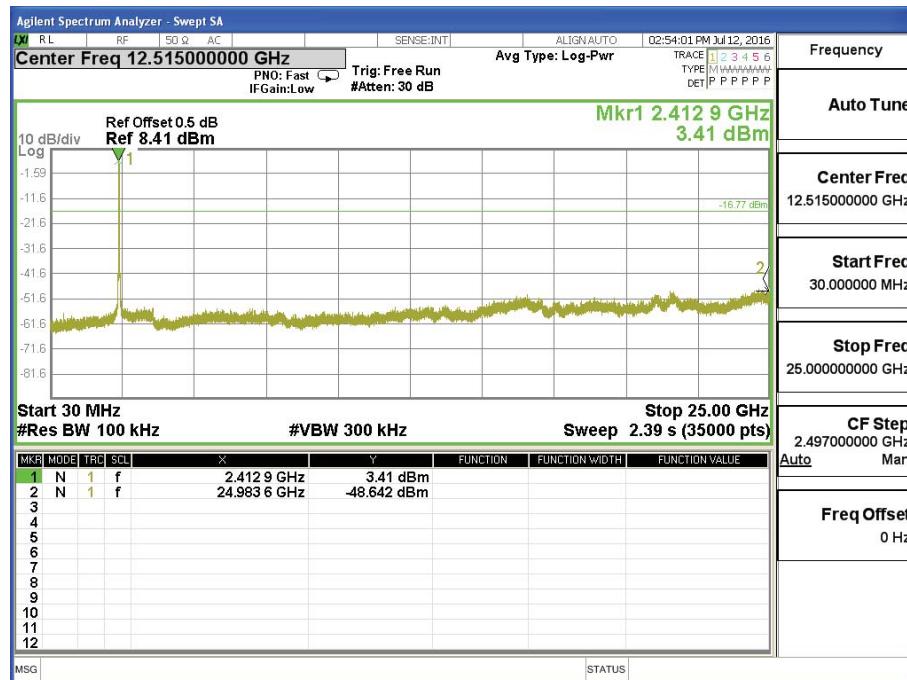


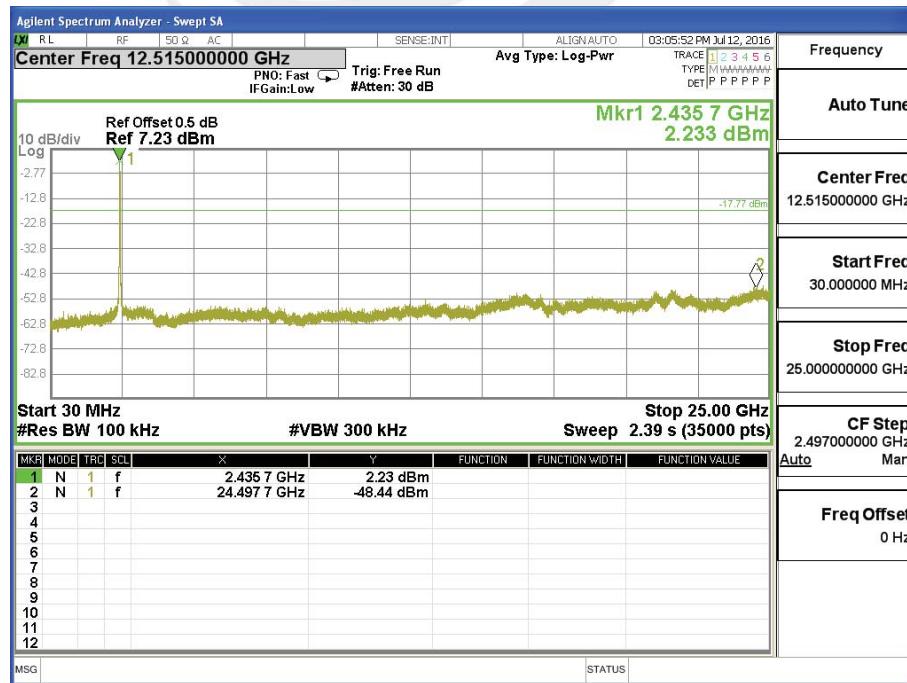


Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

CH 01

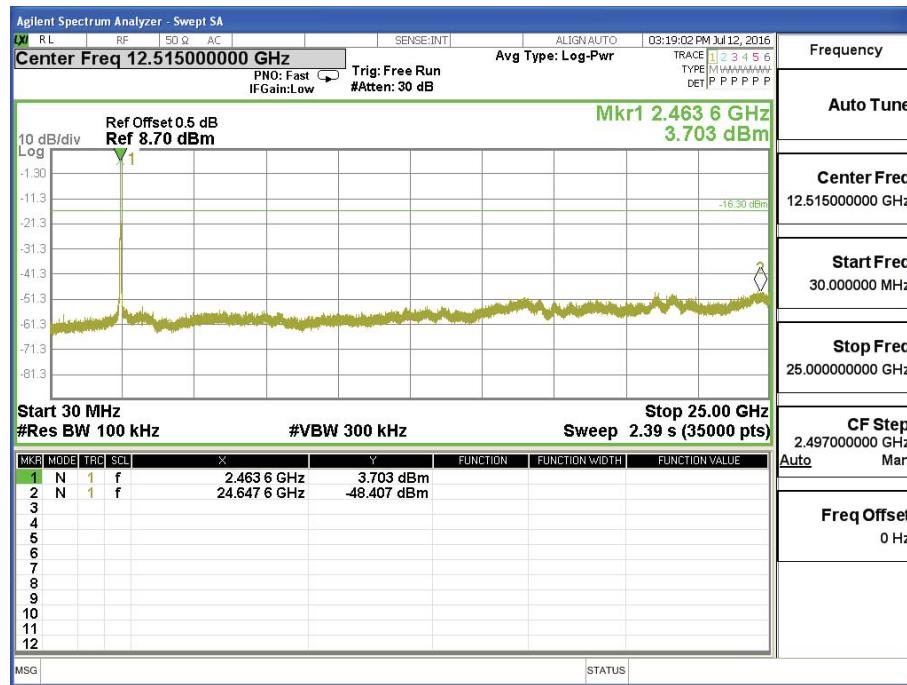


CH 06





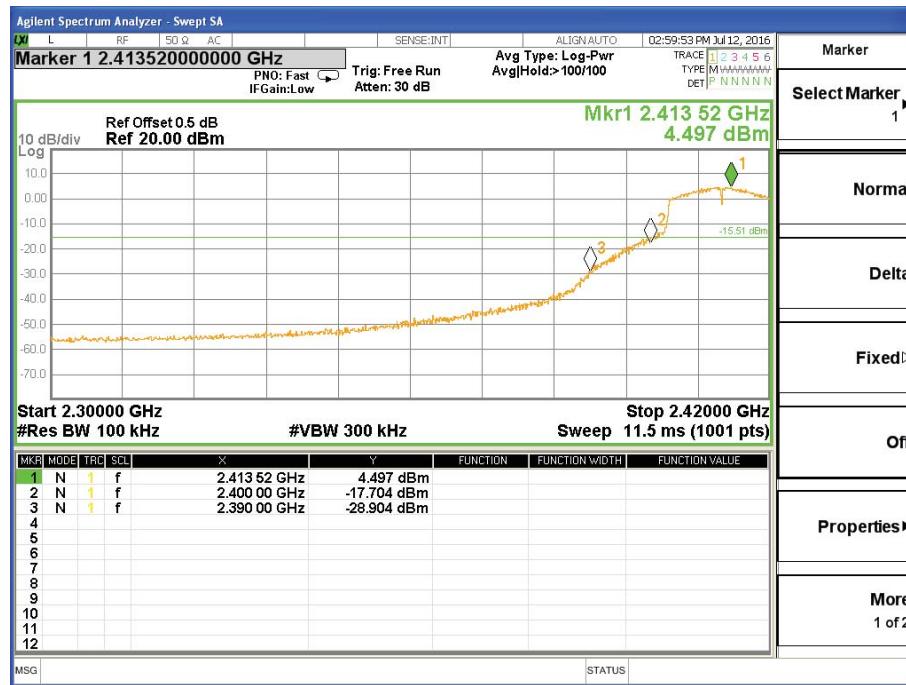
CH 11



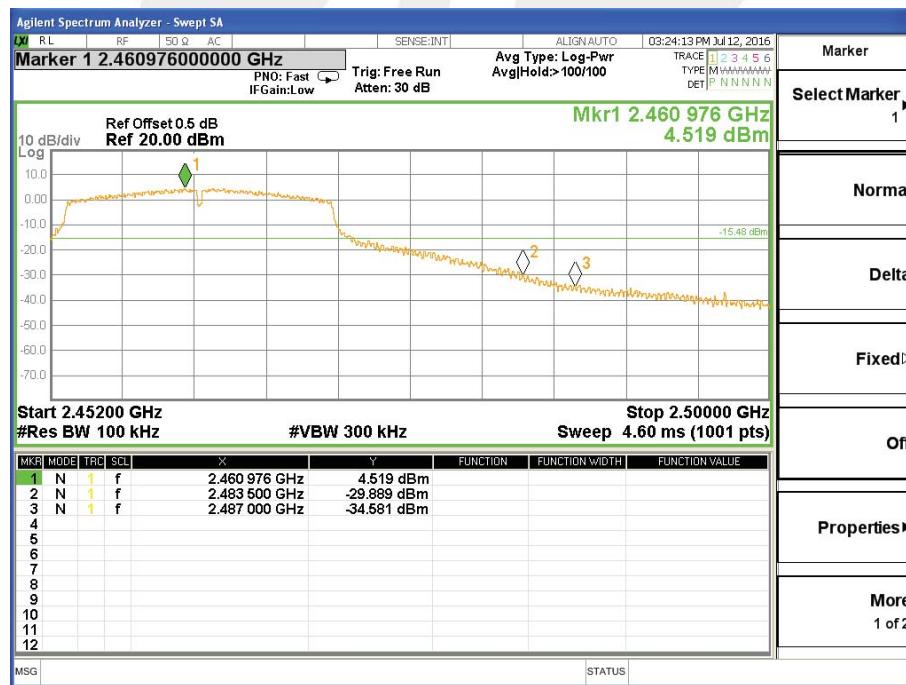


Band edge

CH 01



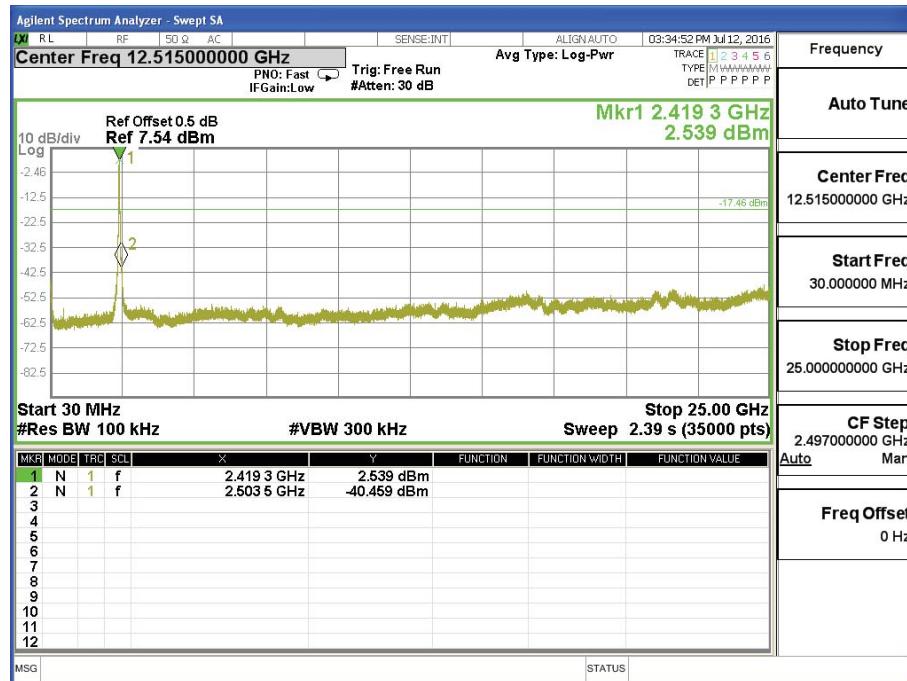
CH 11





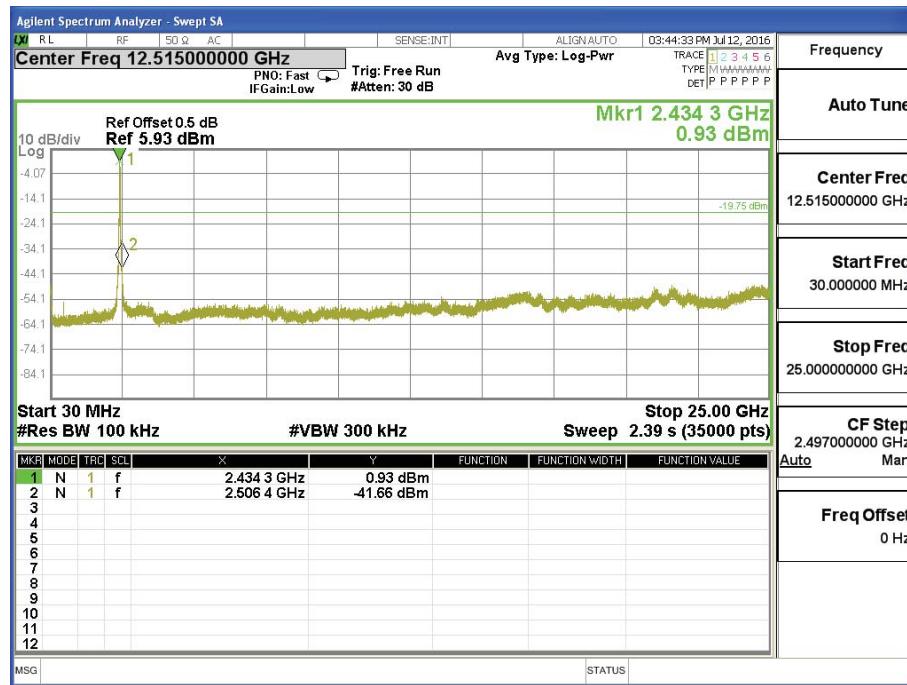
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

CH 03

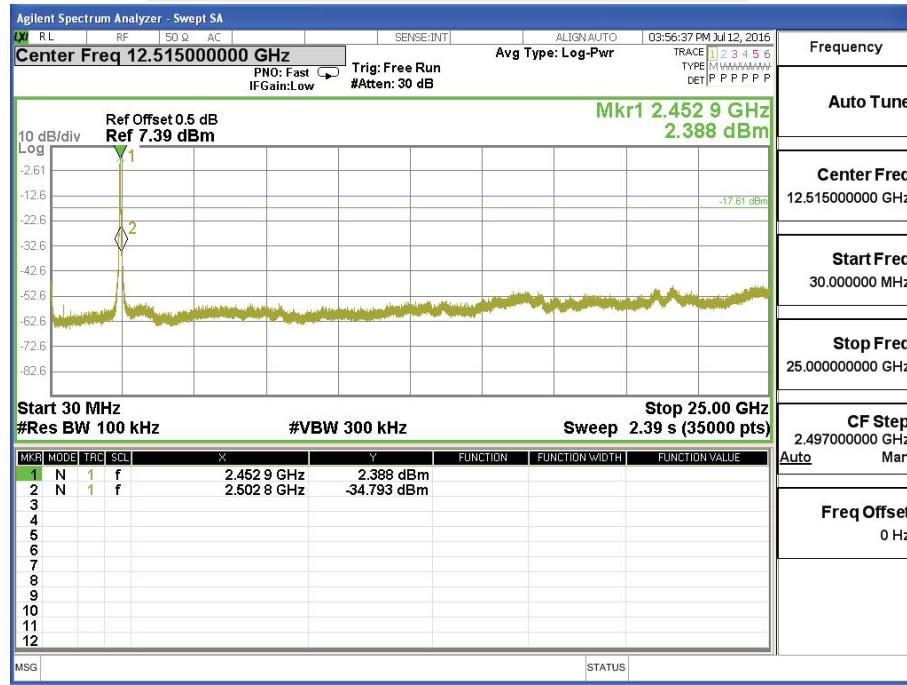




CH06



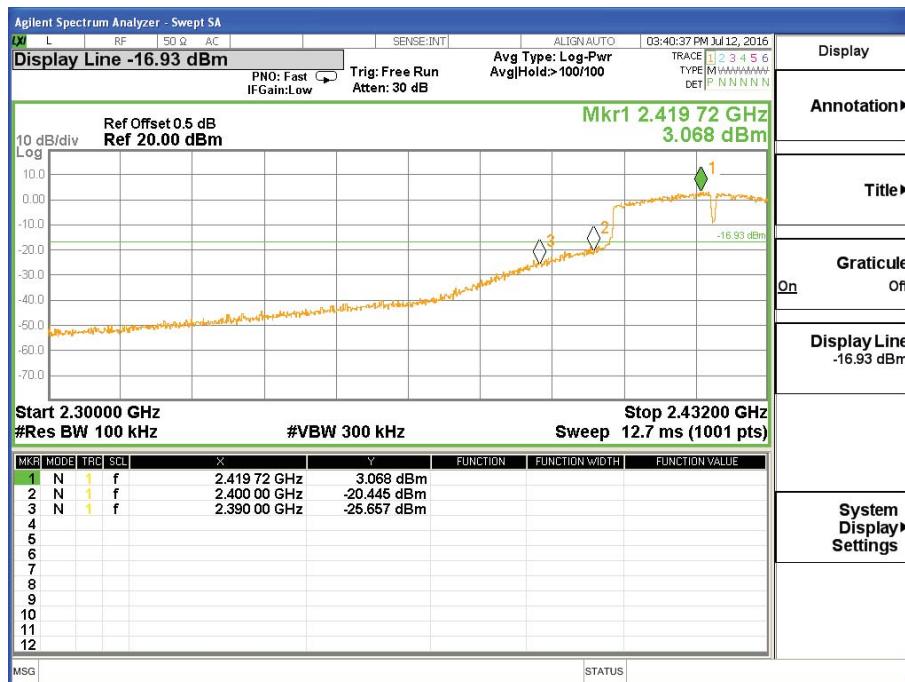
CH09





Band edge

CH03



CH 09





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	$\leq 8 \text{ dBm}$ (RBW $\geq 3\text{KHz}$)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 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.



5.6 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

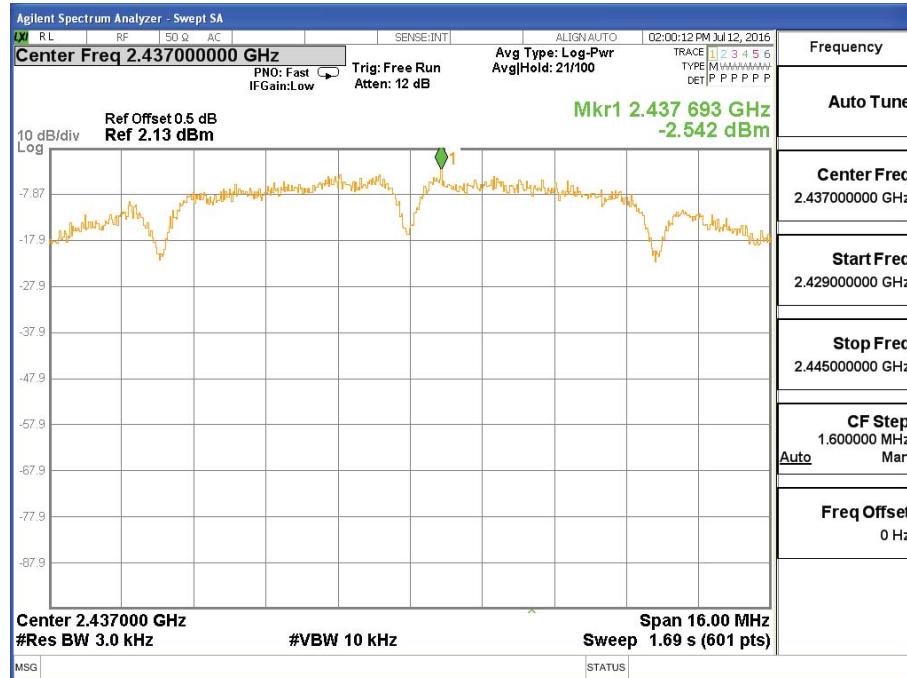
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-4.553	≤8	PASS
2437 MHz	-2.542	≤8	PASS
2462 MHz	-2.125	≤8	PASS

TX CH01





TX CH06



TX CH11

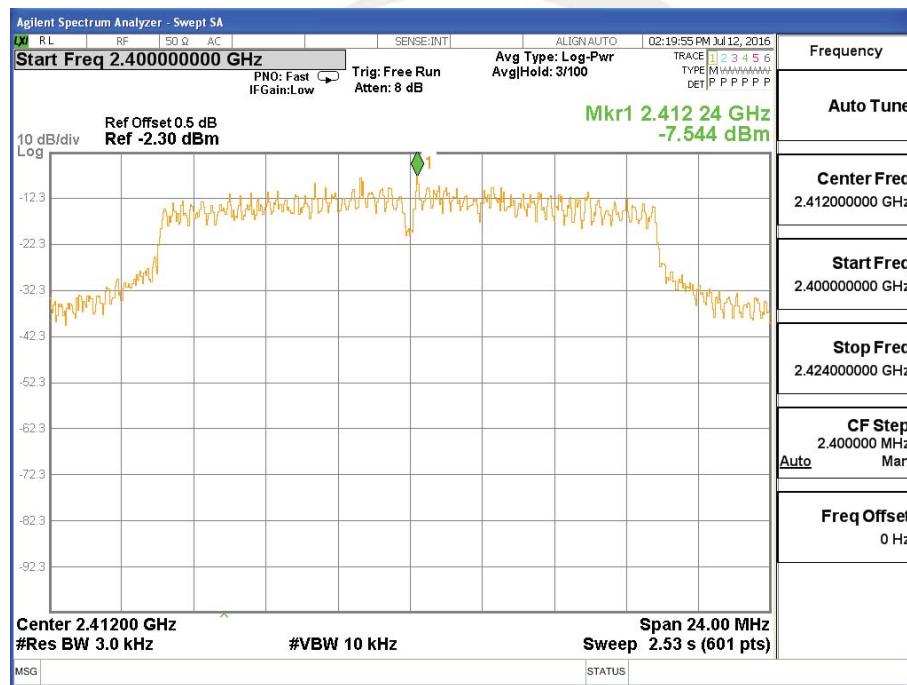




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

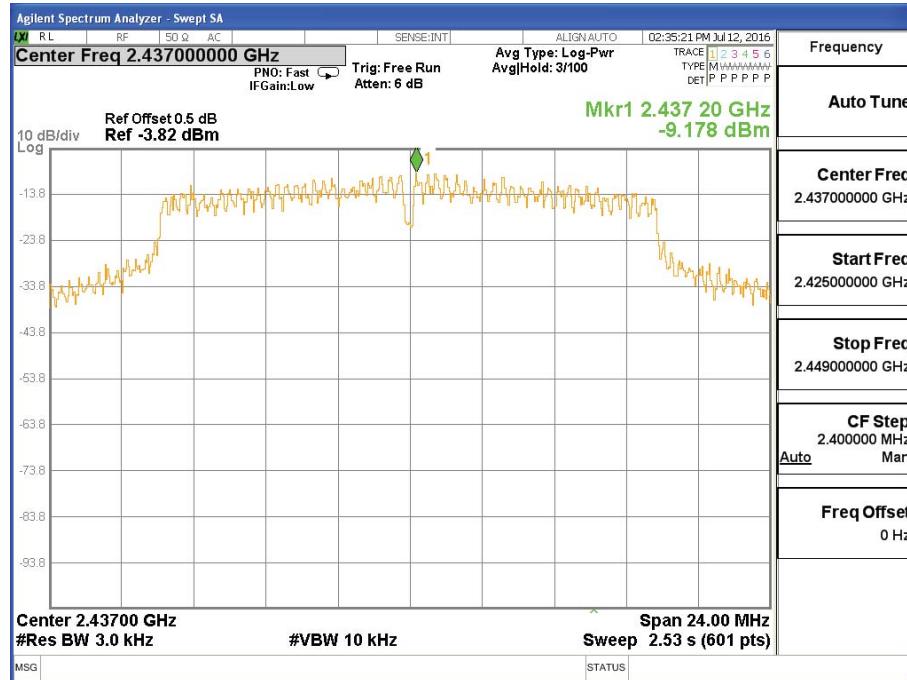
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-7.544	≤8	PASS
2437 MHz	-9.178	≤8	PASS
2462 MHz	-12.087	≤8	PASS

TX CH01

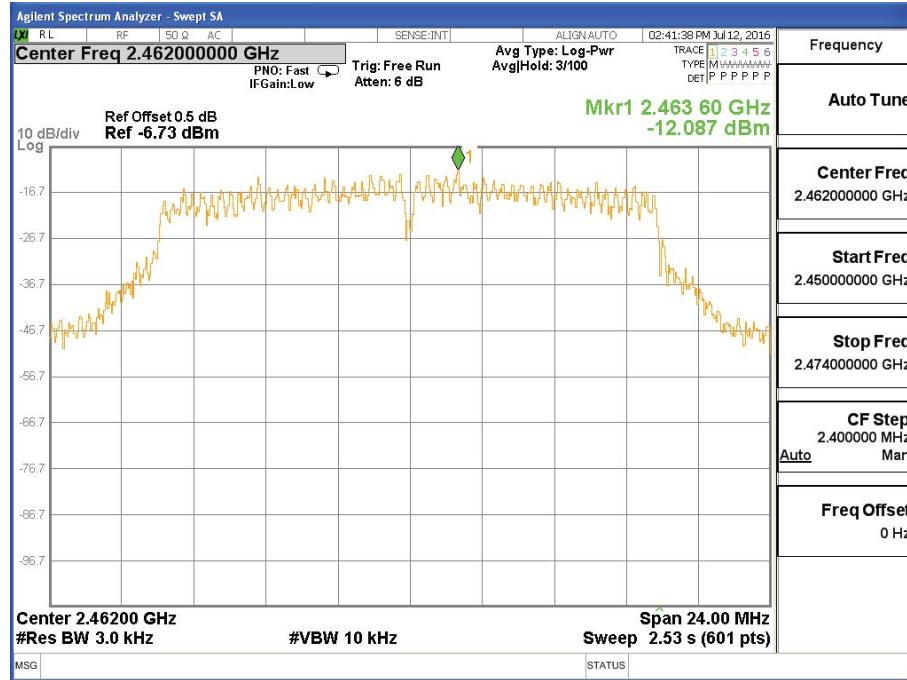




TX CH06



TX CH11

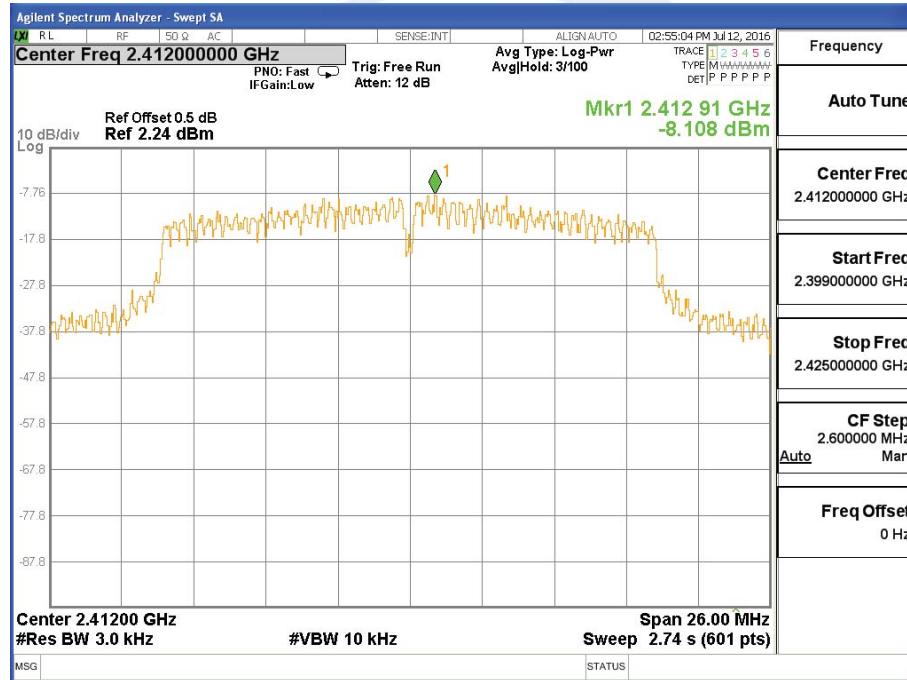




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

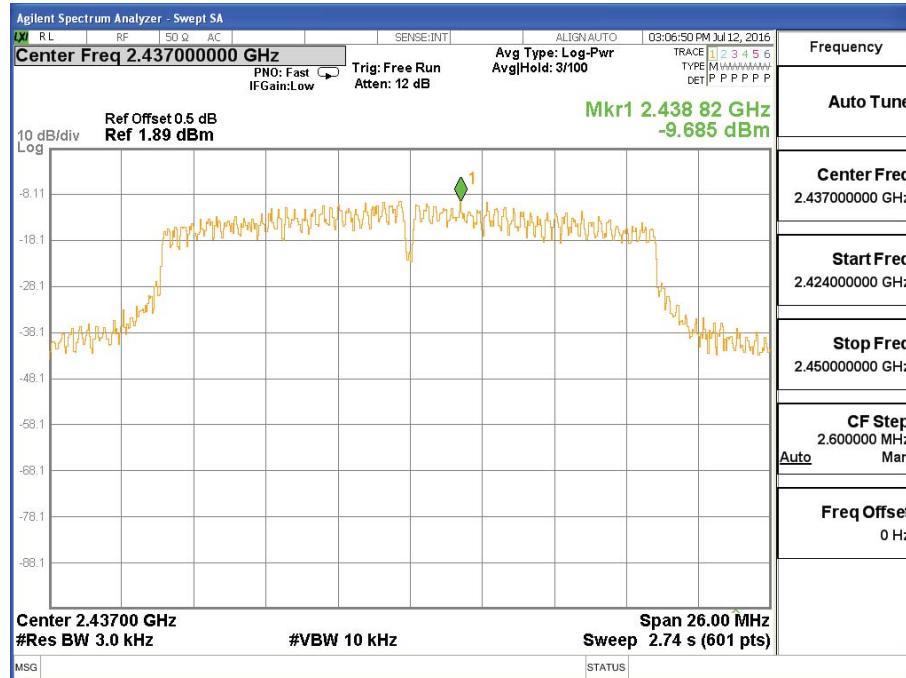
Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-8.108	≤8	PASS
2437 MHz	-9.685	≤8	PASS
2462 MHz	-8.674	≤8	PASS

TX CH01

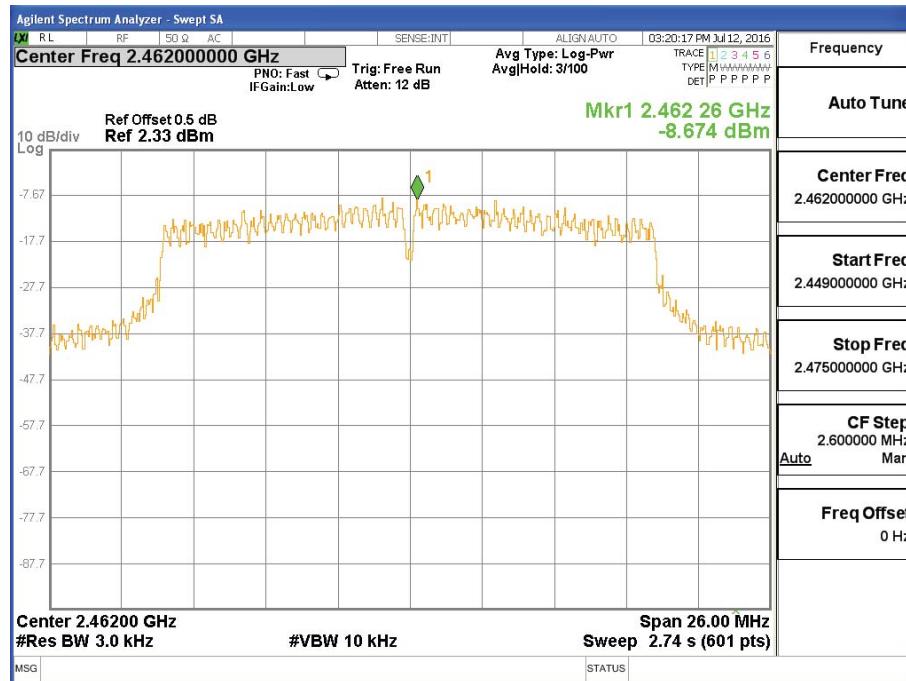




TX CH06



TX CH11





Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

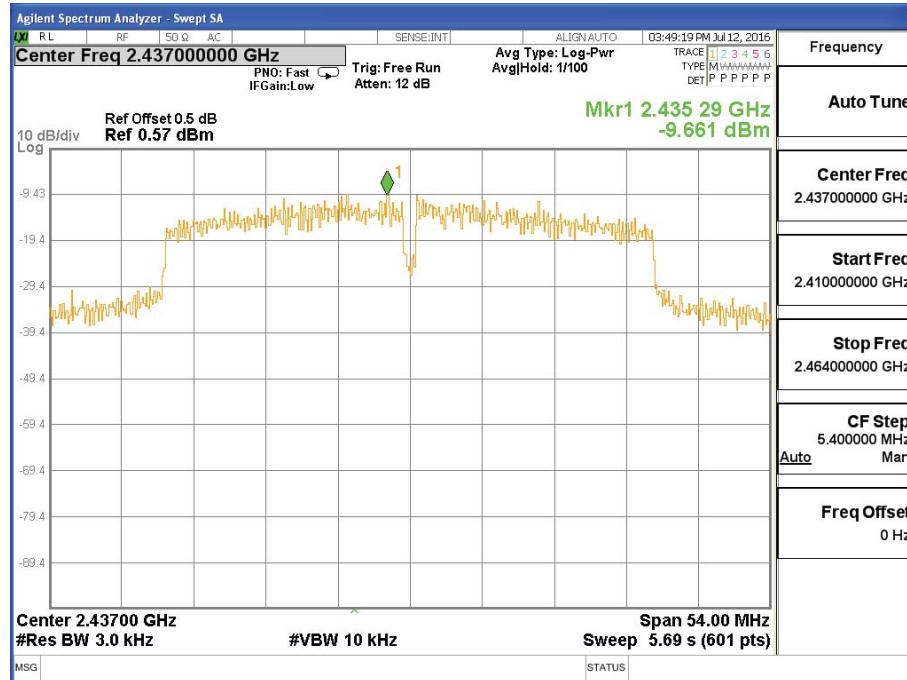
Frequency	Power Density (dBm/3kHz)	Limit(dBm)	Result
2422 MHz	-10.324	≤8	PASS
2437 MHz	-9.661	≤8	PASS
2452 MHz	-10.398	≤8	PASS

TX CH03

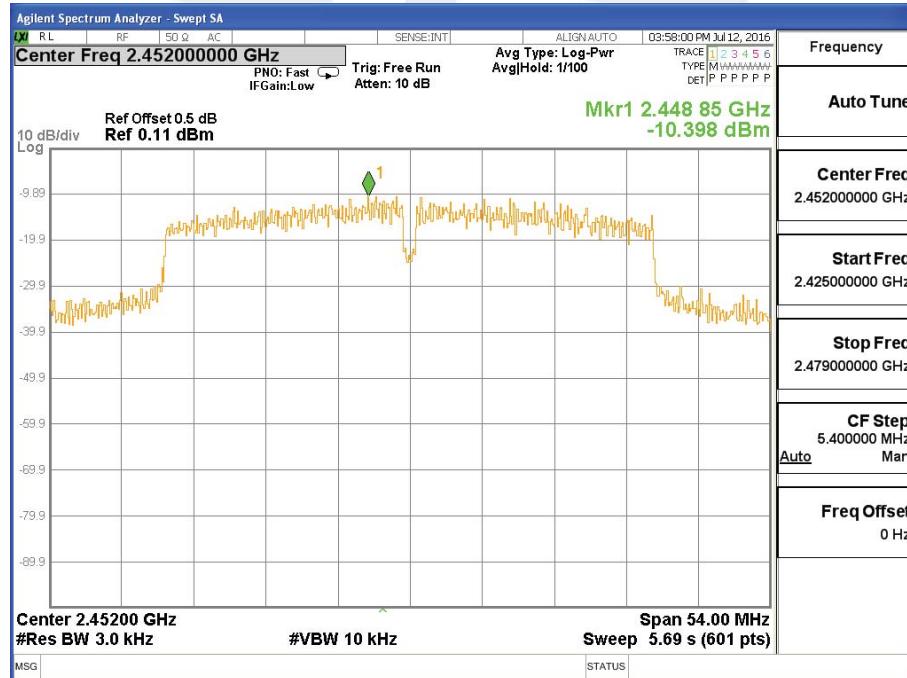




TX CH06



TX CH09





6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,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

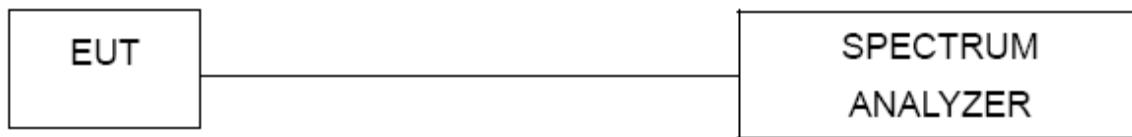
6.2 TEST PROCEDURE

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 \geq 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.



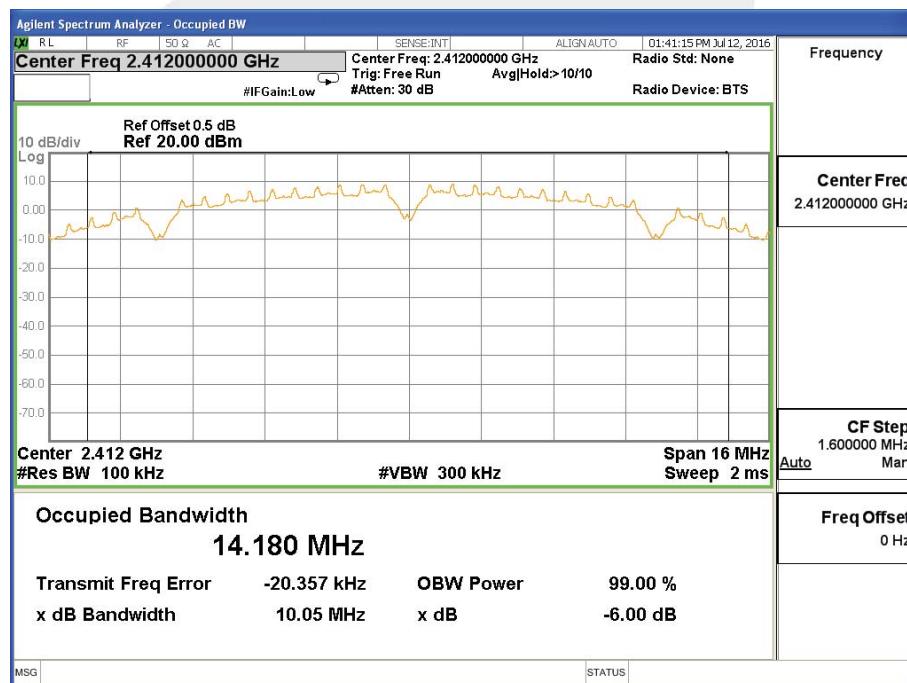
6.6 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Remark: PEAK DETECTOR IS USED

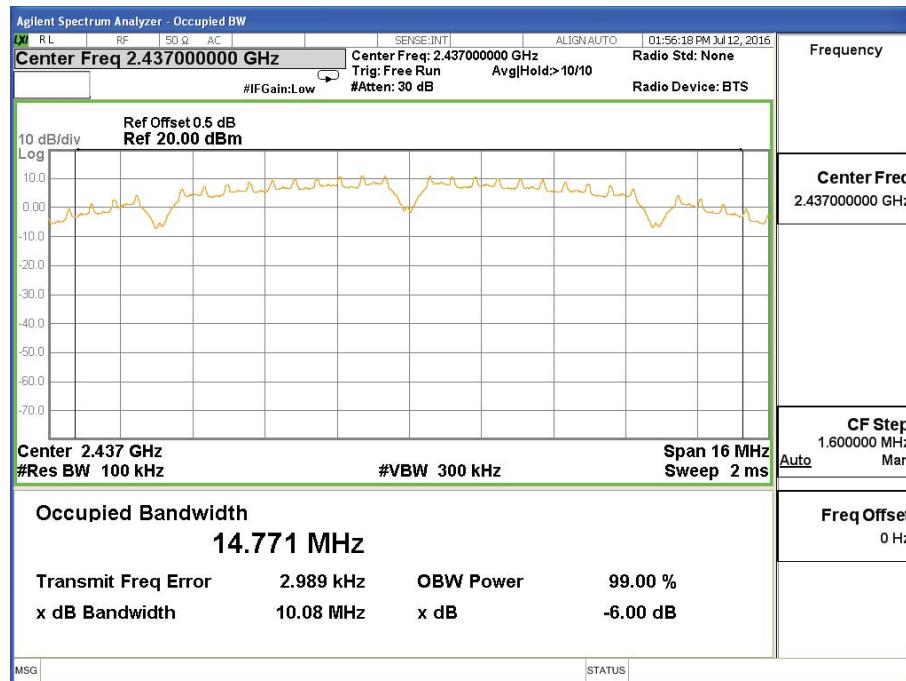
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.05	≥500KHz	PASS
2437 MHz	10.08	≥500KHz	PASS
2462 MHz	10.06	≥500KHz	PASS

TX CH 01

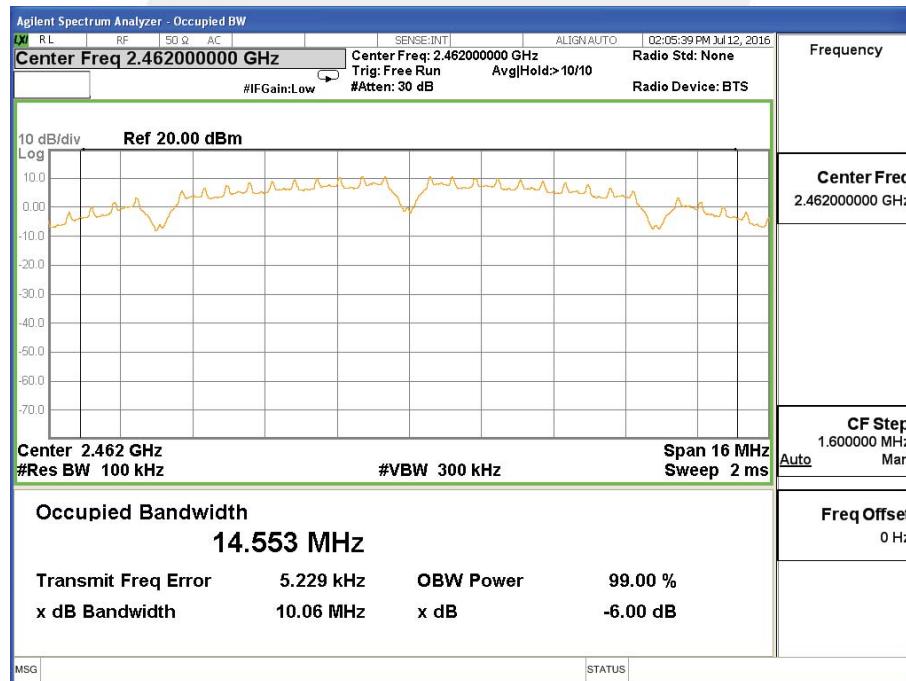




TX CH 06



TX CH 11

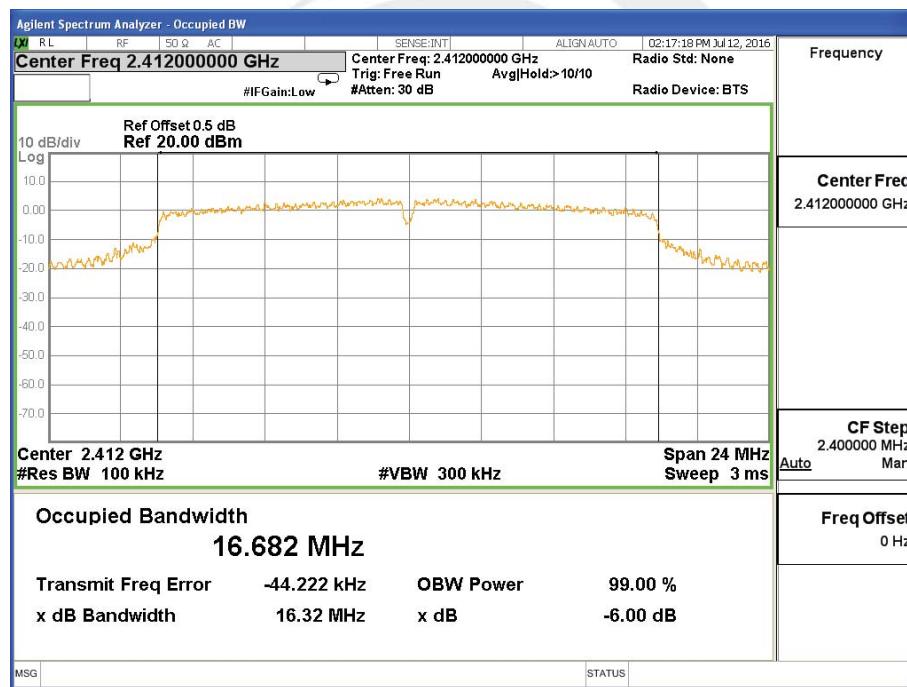




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

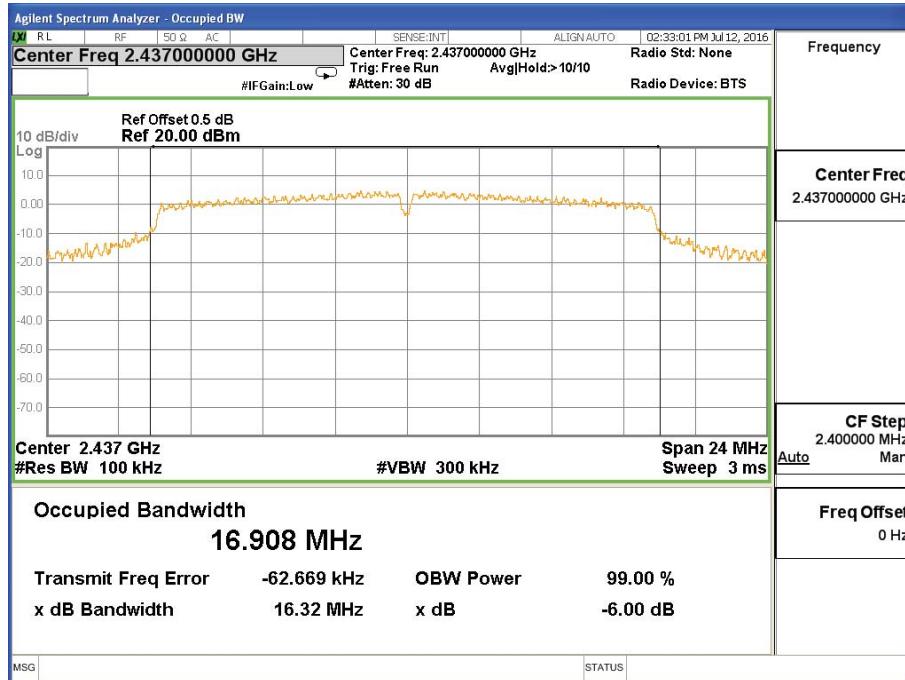
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.32	≥500KHz	PASS
2437 MHz	16.32	≥500KHz	PASS
2462 MHz	15.10	≥500KHz	PASS

TX CH 01

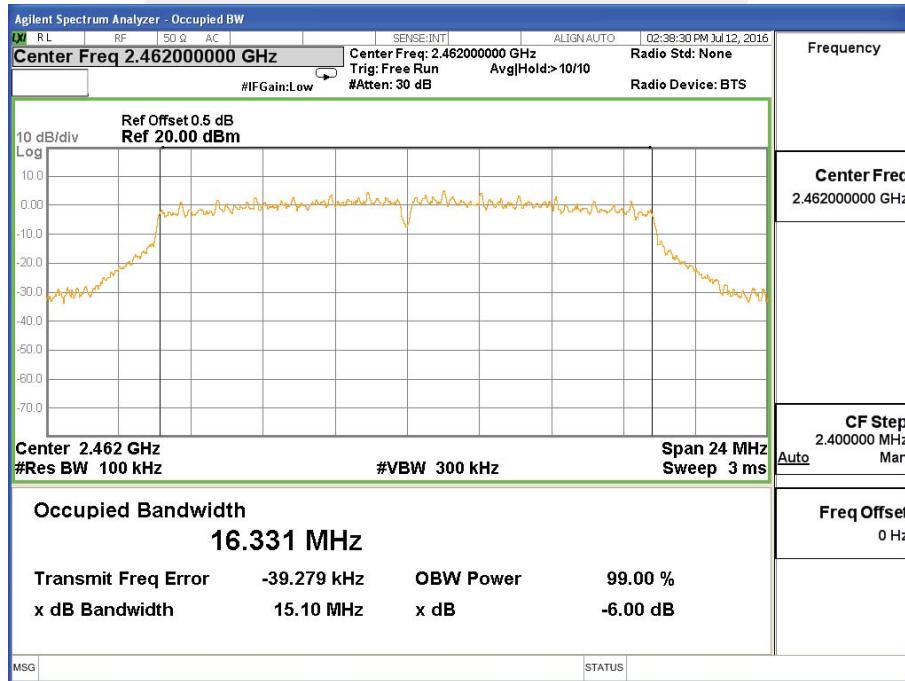




TX CH 06



TX CH 11

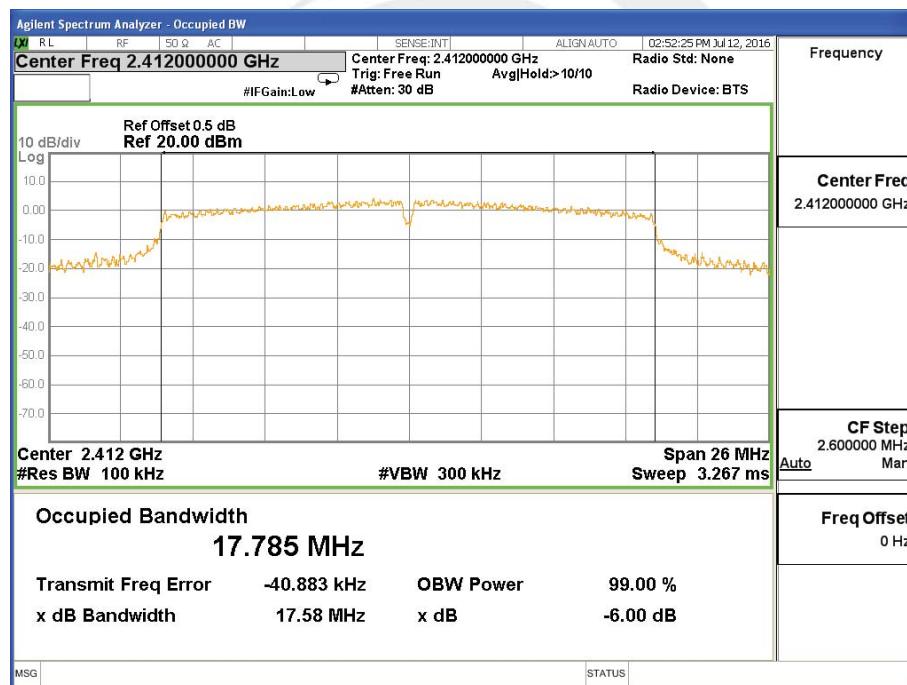




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

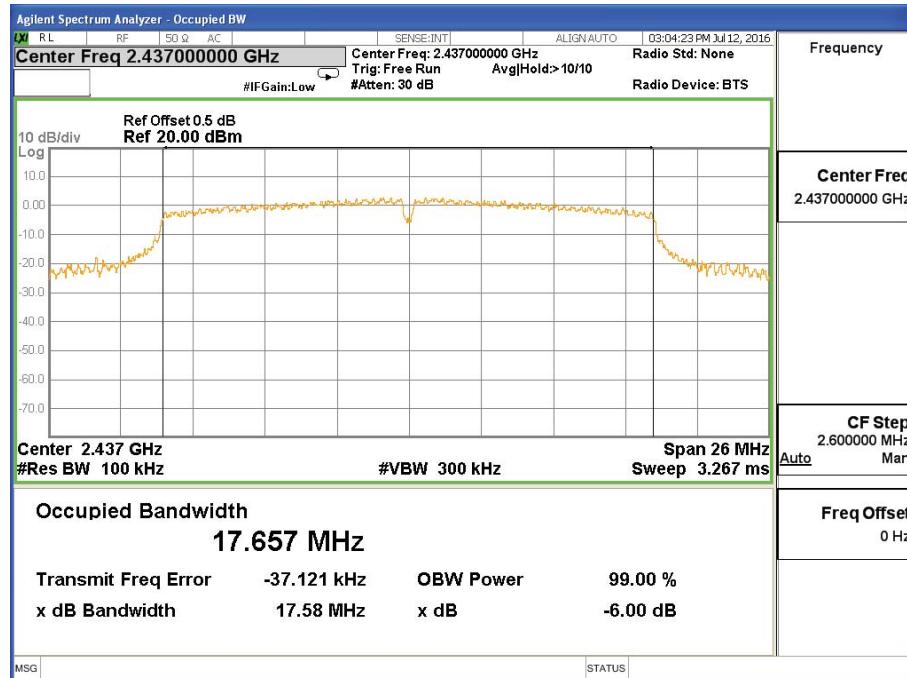
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.58	≥500KHz	PASS
2437 MHz	17.58	≥500KHz	PASS
2462 MHz	17.57	≥500KHz	PASS

TX CH 01

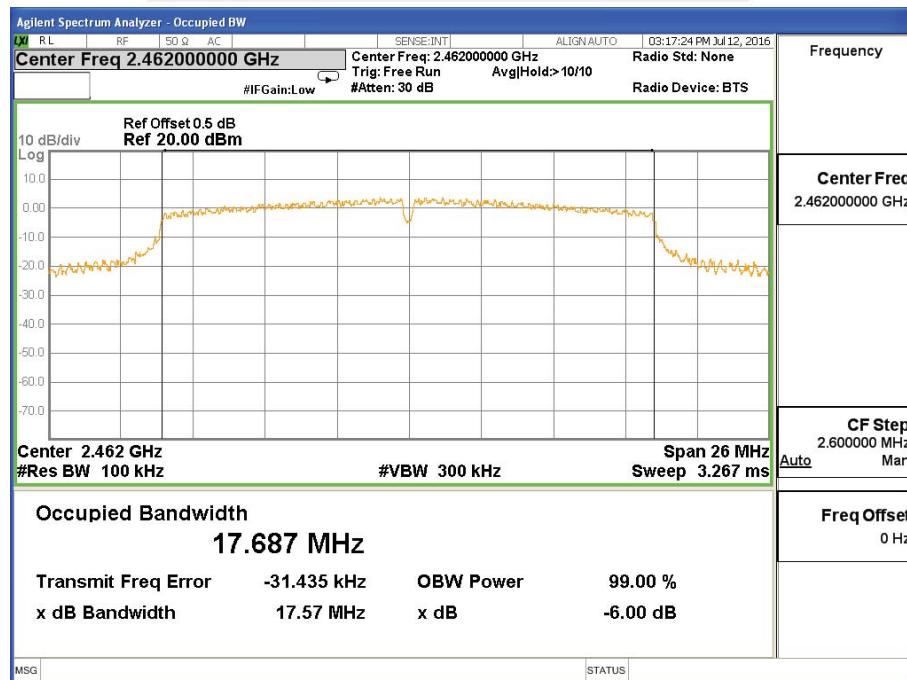




TX CH 06



TX CH 11

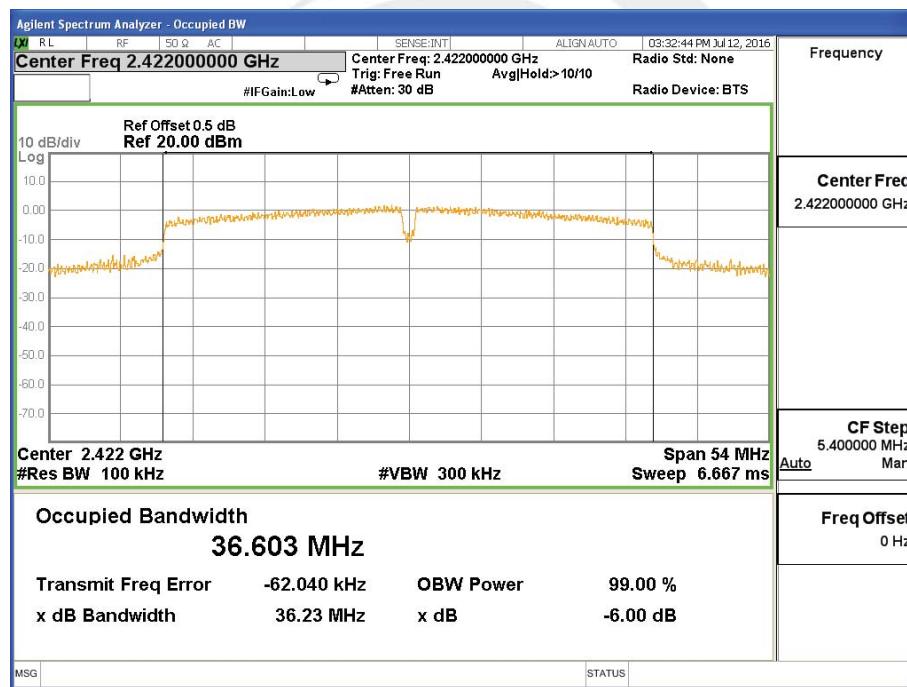




Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

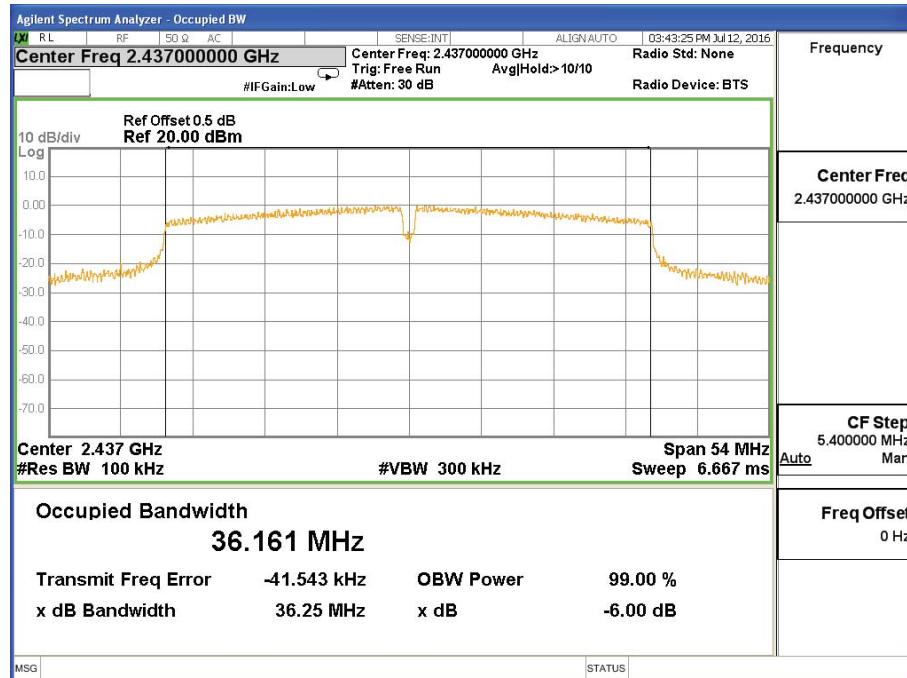
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	36.23	≥500KHz	PASS
2437 MHz	36.25	≥500KHz	PASS
2452 MHz	36.27	≥500KHz	PASS

TX CH 03

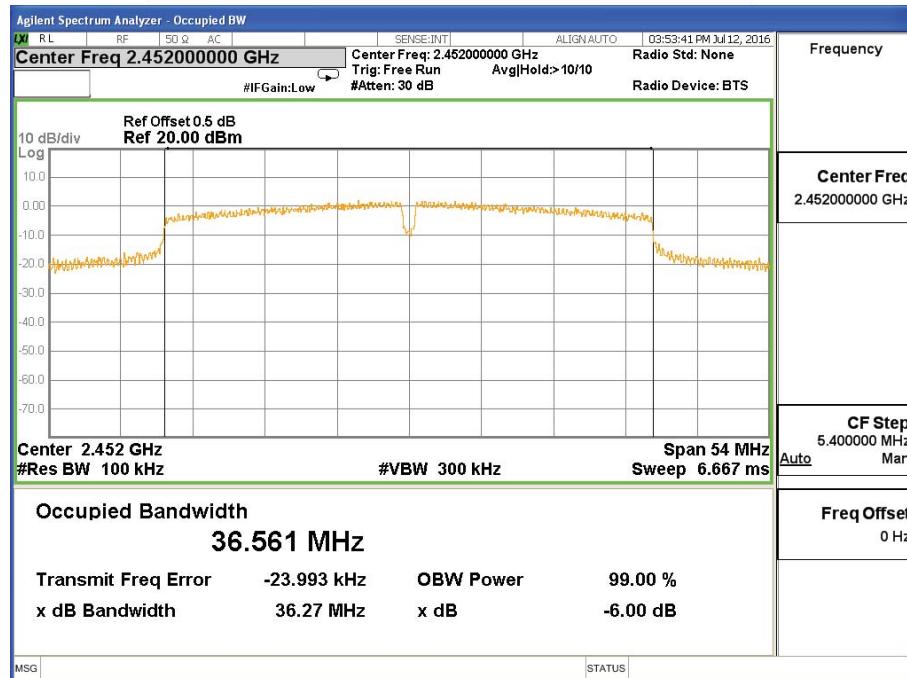




TX CH 06



TX CH 09





7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
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

- The EUT was directly connected to the Power Sensor&PC

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 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz

TX 802.11b Mode			
Test Channel	Frequency	Conducted Output Power	LIMIT
	(MHz)	Peak(dBm)	dBm
CH01	2412	13.57	30
CH06	2437	13.36	30
CH11	2462	13.52	30

TX 802.11g Mode			
Test Channel	Frequency	Conducted Output Power	LIMIT
	(MHz)	Peak(dBm)	dBm
CH01	2412	11.96	30
CH06	2437	11.86	30
CH11	2462	11.88	30

TX 802.11n20 Mode			
Test Channel	Frequency	Conducted Output Power	LIMIT
	(MHz)	Peak(dBm)	dBm
CH01	2412	11.89	30
CH06	2437	11.87	30
CH11	2462	11.91	30

TX 802.11n40 Mode			
Test Channel	Frequency	Conducted Output Power	LIMIT
	(MHz)	Peak(dBm)	dBm
CH03	2422	10.96	30
CH06	2437	10.58	30
CH09	2452	10.34	30



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

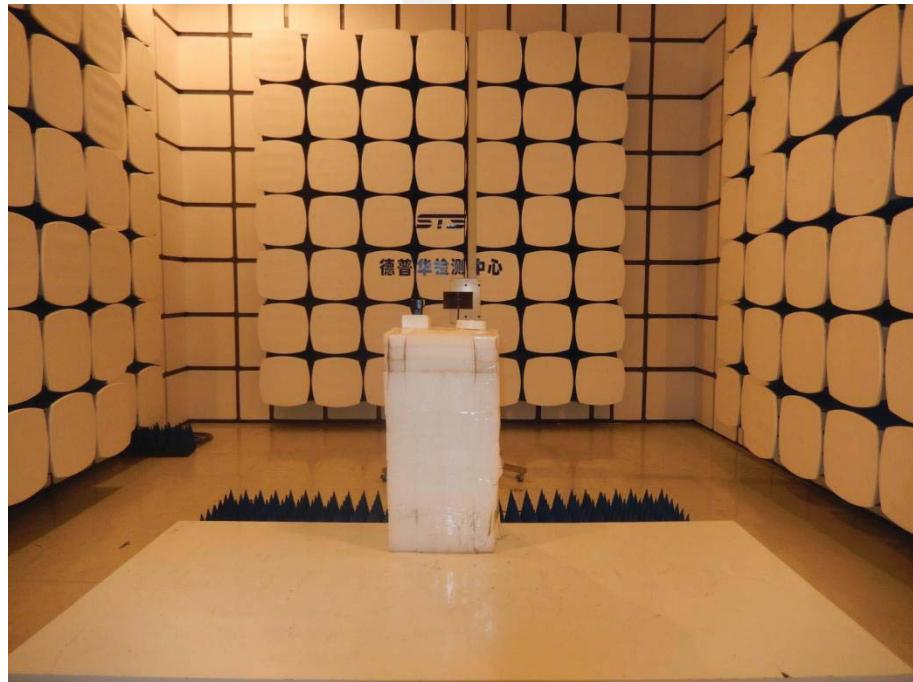
The EUT antenna is PCB Antenna. It comply with the standard requirement.





APPENDIX I - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos





APPENDIX II-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Photo 1

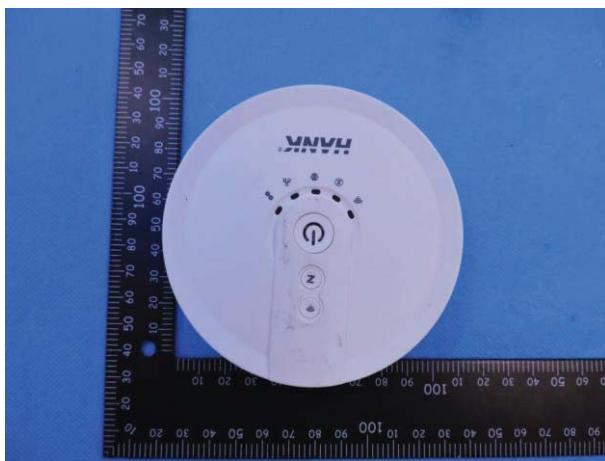


Photo 2



Photo 3

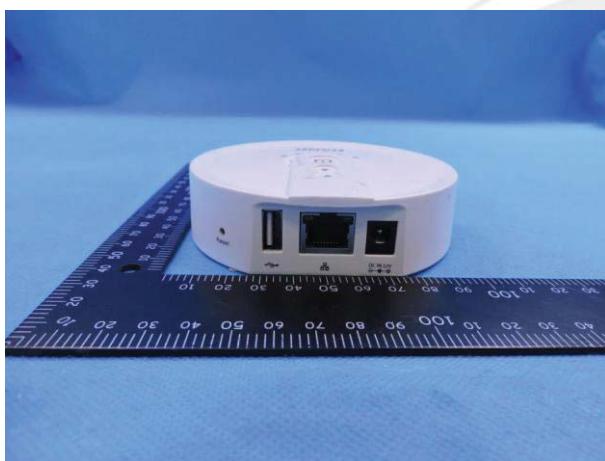


Photo 4

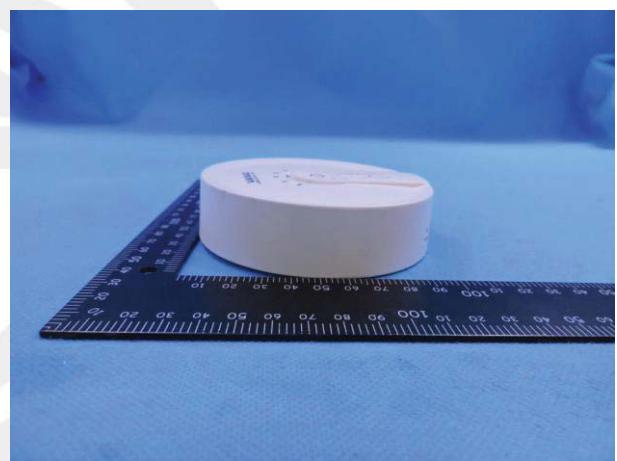


Photo 5

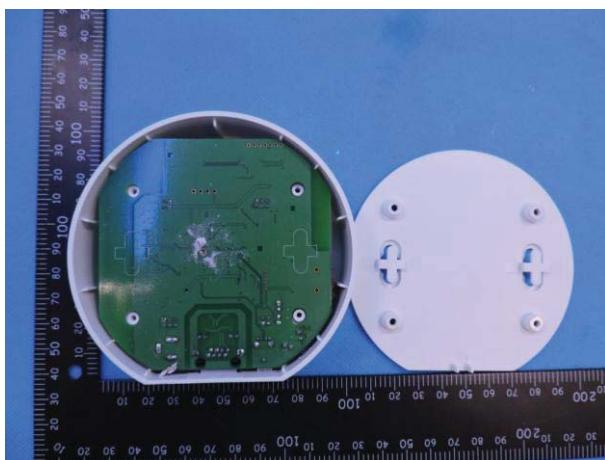


Photo 6

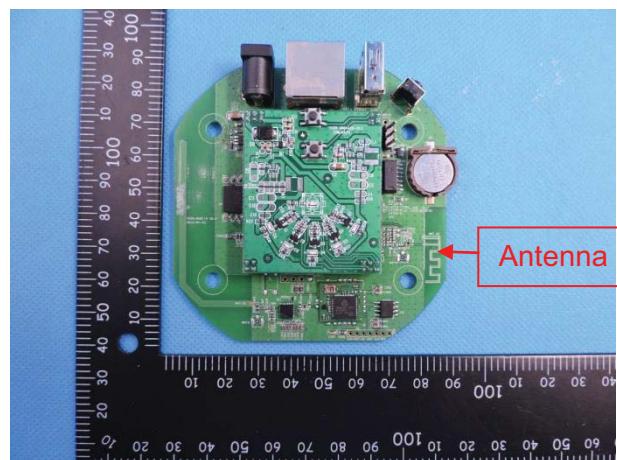




Photo 7

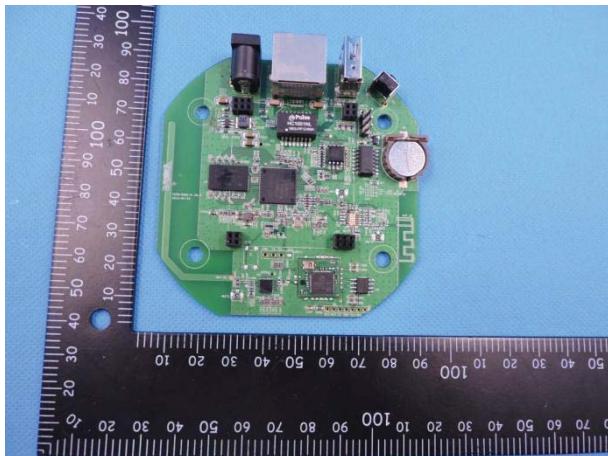


Photo 8

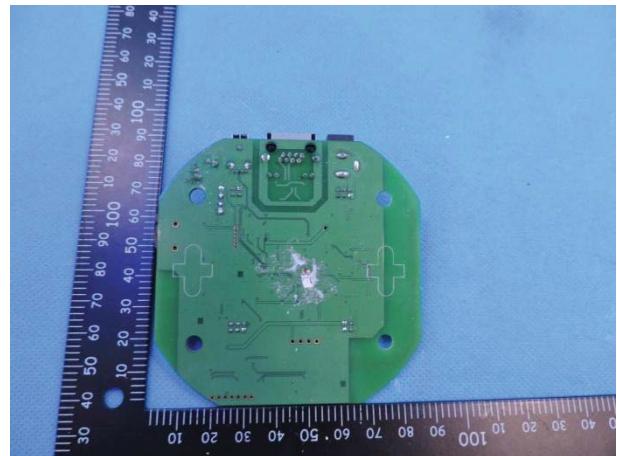


Photo 9

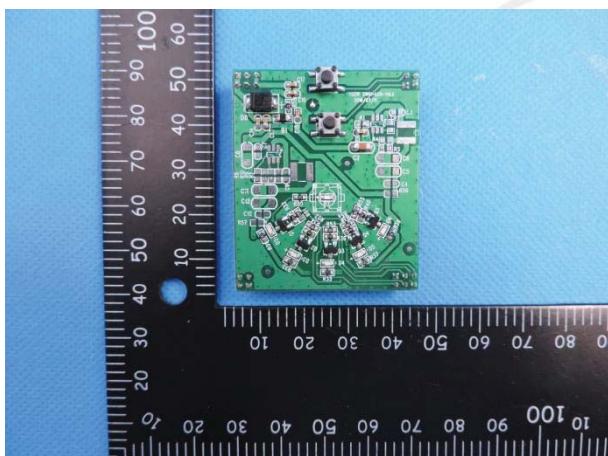


Photo 10

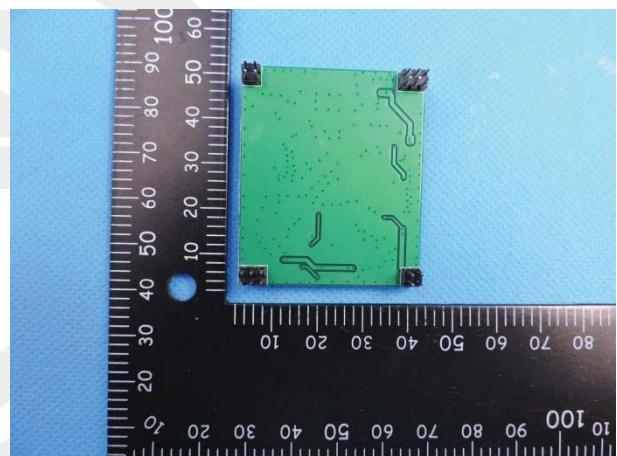


Photo 11



Photo 12





Photo 13

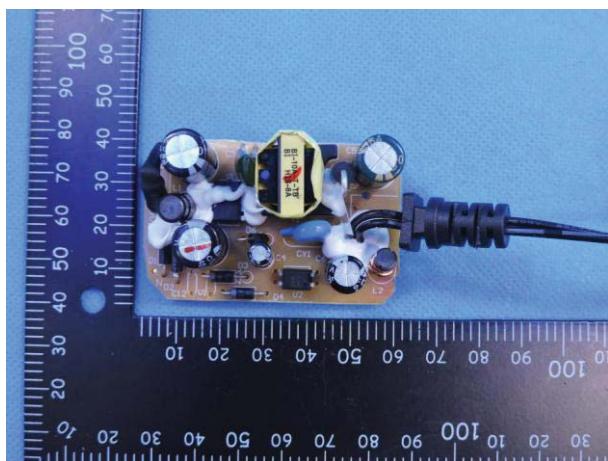


Photo 14

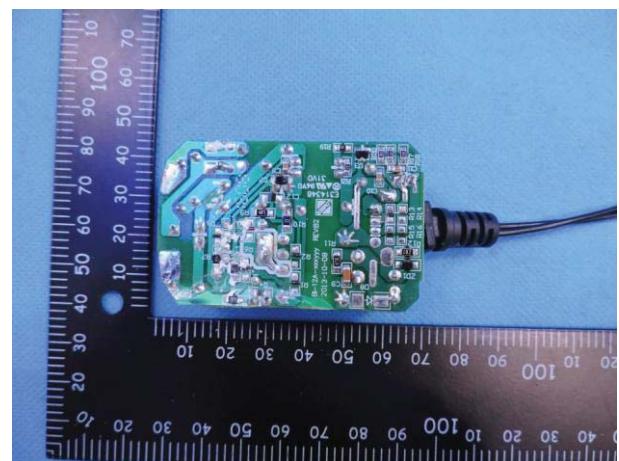


Photo 15

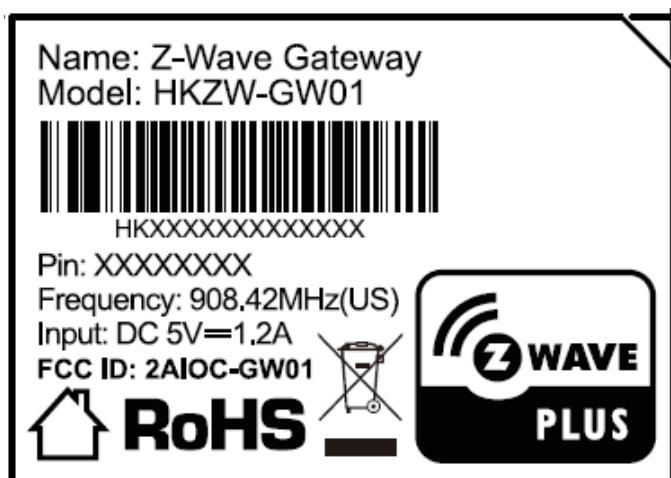


Photo 16

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