

FCC TEST REPORT

For

DDPai Technology Co., Ltd

DDPai

Model No.: mini3

Prepared For	:	DDPai Technology Co., Ltd
Address	:	Floor 12, Yihua Finance Building, Nanshan Software Industry park, Xuefu Rd, Nanshan District, Shenzhen, China
Prepared By	:	Shenzhen Anbotek Compliance Laboratory Limited
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Report Number	:	R0217100027W
Date of Test	:	Oct. 17~Nov. 06, 2017
Date of Report	:	Nov. 06, 2017

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TEST REPORT

Applicant : DDPai Technology Co., Ltd
Manufacturer : DDPai Technology Co., Ltd
Product Name : DDPai
Model No. : mini3
Trade Mark : ddpai
Rating(s) : Input DC 5V 2A

Test Standard(s) : FCC Part15 Subpart C 2016, Section 15.247

Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v04

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : : Oct. 17~Nov. 06, 2017

Prepared by :



Winkey Wang

(Tested Engineer / Winkey Wang)

Reviewer :

Tangcy. T.

(Project Manager / Tangcy. T)

Approved & Authorized Signer :

Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	DDPai Technology Co., Ltd
Address	:	Floor 12, Yihua Finance Building, Nanshan Software Industry park, Xuefu Rd, Nanshan District, Shenzhen, China
Manufacturer	:	DDPai Technology Co., Ltd
Address	:	Floor 12, Yihua Finance Building, Nanshan Software Industry park, Xuefu Rd, Nanshan District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	DDPai
Model No.	:	mini3
Trade Mark	:	ddpai
Test Power Supply	:	DC 5V
Product Description	Operation Frequency:	WiFi 2.4G 802.11b/ g/ n(HT20) 2412-2462MHz WiFi 2.4G 802.11n(HT40) 2422-2452MHz
	Number of Channel:	WiFi 2.4G: 11 Channels for 802.11b/ g/ n(HT20) WiFi 2.4G: 7 Channels for 802.11n(HT40)
	Modulation Type:	WiFi 2.4G: 802.11b CCK; 802.11g/n OFDM
	Antenna Type:	FPCB Antenna
	Antenna Gain(Peak):	0.7 dBi
Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Adapter	:	N.A.
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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1	CCK	DBPSK	1.0

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n HT40	3 to 9	3, 6, 9	OFDM	BPSK	13.5

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

EUT configure mode	Test Mode
-	Keeping TX mode

BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5
802.11n HT40	3 to 9	3, 9	OFDM	BPSK	13.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n HT40	3 to 9	3,6, 9	OFDM	BPSK	13.5

1.5. List of channels

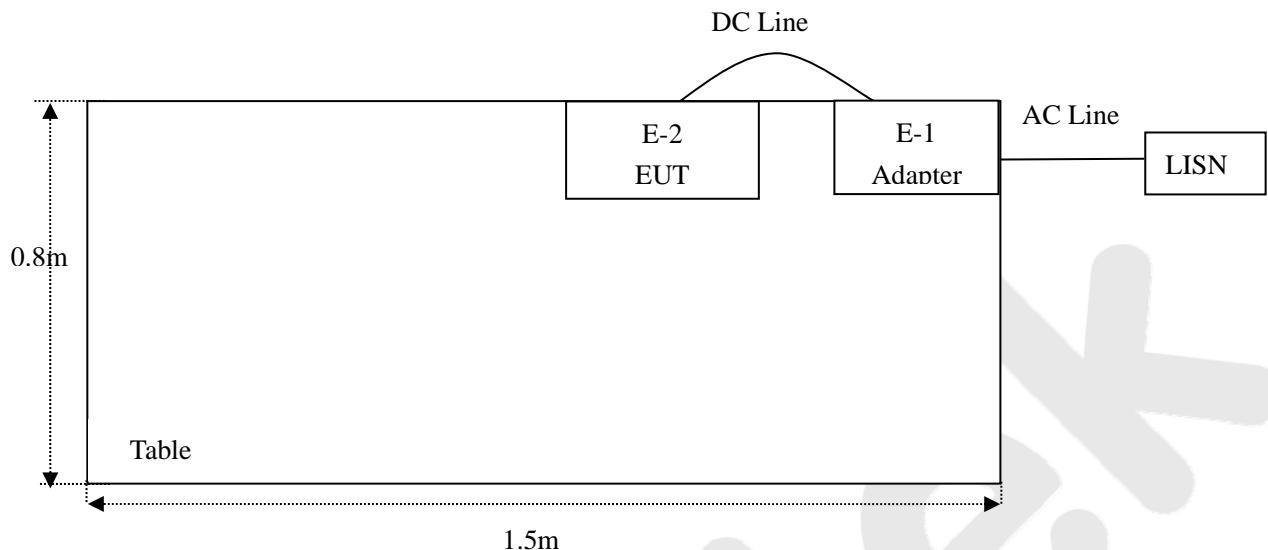
Channel	Freq. (MHz)						
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Note:

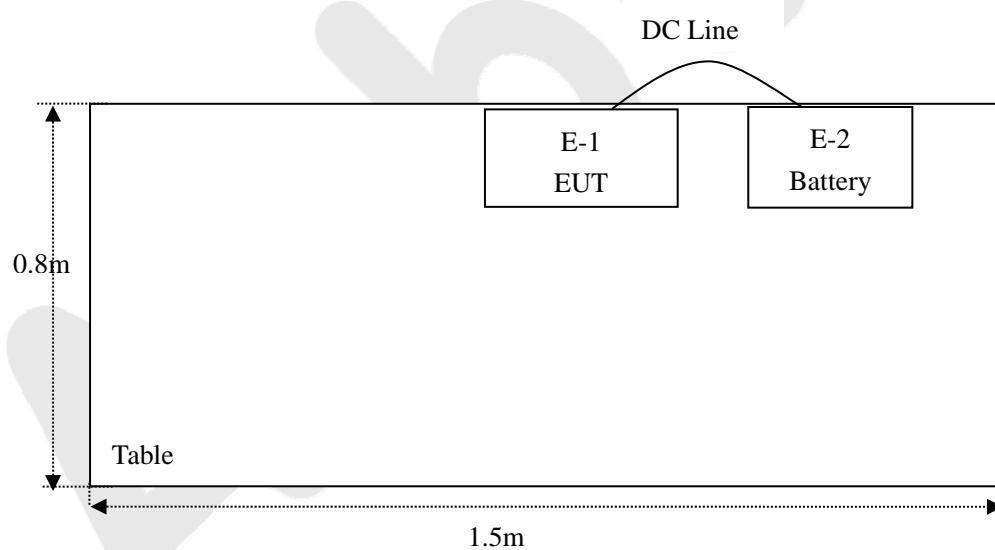
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT built-in battery-powered, fully-charged battery use of the test battery.

1.6. Description Of Test Setup

CE



RE



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	May 27, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	May 27, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 27, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	May 27, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	May 27, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	May 27, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	May 27, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	May 31, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 31, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Apr. 03, 2017	1 Year
11.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	May 27, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	May 27, 2017	1 Year
13.	Pre-amplifier	SKET Electronic	BK1G40G50A	KD25352	May 27, 2017	1 Year
14.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	May 27, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	May 27, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	May 27, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	May 27, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	May 27, 2017	1 Year
20.	DC Power supply	IVYTECH	IV6003	1601D6030007	May 26, 2017	1 Year
21.	TEMP&HUMI PROGRAMMABLE CHAMBER	Sertep	ZJ-HWHS80B	ZJ-17042804	Mar. 03, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 4.1 dB (Horizontal)
		Ur = 4.3 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4dB

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

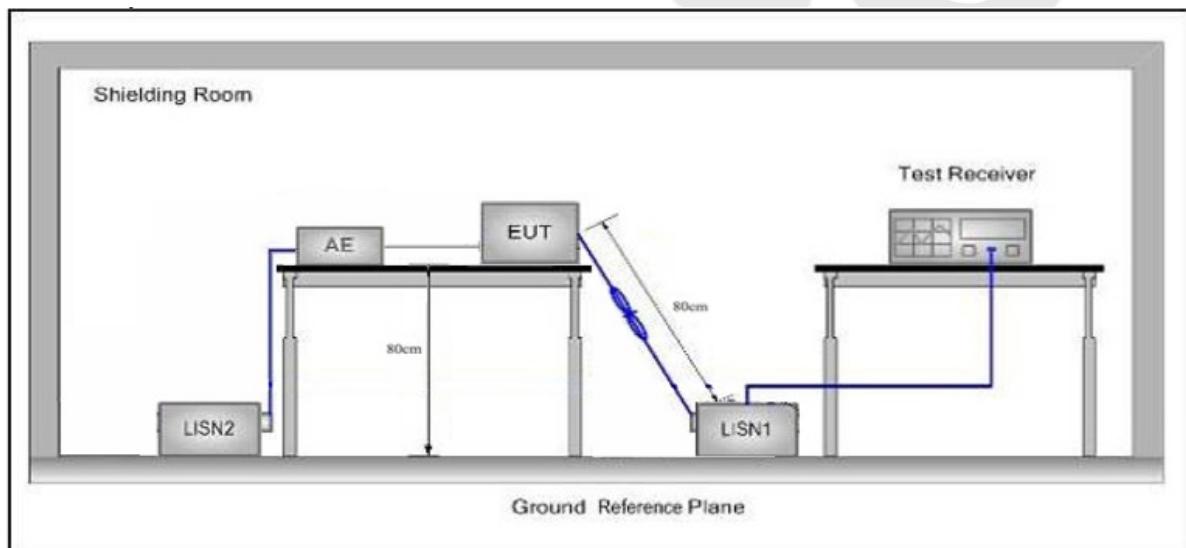
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

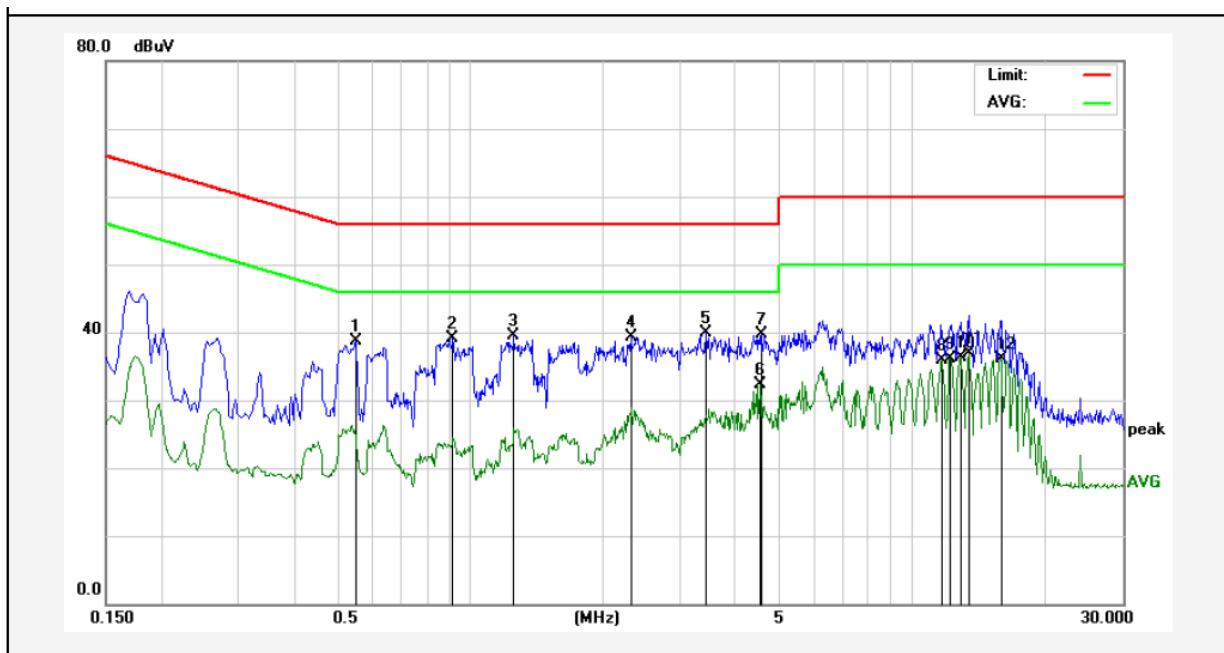
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

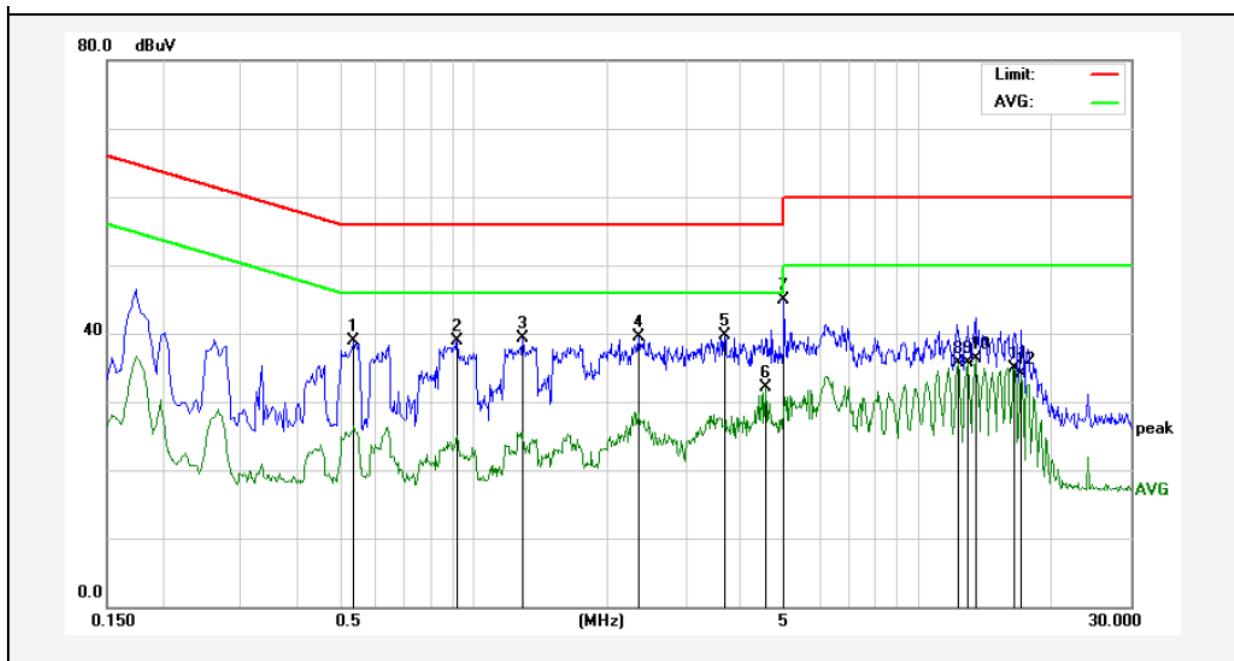
Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: DC 5V
 Comment: Live Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5540	18.67	20.00	38.67	56.00	-17.33	QP	
2	0.9180	18.91	20.10	39.01	56.00	-16.99	QP	
3	1.2579	19.30	20.13	39.43	56.00	-16.57	QP	
4	2.3179	19.11	20.15	39.26	56.00	-16.74	QP	
5	3.4260	19.82	20.17	39.99	56.00	-16.01	QP	
6	4.5340	12.10	20.19	32.29	46.00	-13.71	AVG	
7	4.5820	19.50	20.20	39.70	56.00	-16.30	QP	
8	11.6899	15.62	20.31	35.93	50.00	-14.07	AVG	
9	12.1660	15.84	20.31	36.15	50.00	-13.85	AVG	
10	12.9300	16.06	20.29	36.35	50.00	-13.65	AVG	
11	13.4540	16.68	20.28	36.96	50.00	-13.04	AVG	
12	15.8420	15.90	20.27	36.17	50.00	-13.83	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Keeping TX mode
 Test Specification: DC 5V
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5380	18.82	19.99	38.81	56.00	-17.19	QP	
2	0.9220	18.86	20.10	38.96	56.00	-17.04	QP	
3	1.2900	19.10	20.13	39.23	56.00	-16.77	QP	
4	2.3580	19.36	20.15	39.51	56.00	-16.49	QP	
5	3.6660	19.49	20.17	39.66	56.00	-16.34	QP	
6	4.5340	11.86	20.19	32.05	46.00	-13.95	AVG	
7	4.9899	24.72	20.21	44.93	56.00	-11.07	QP	
8	12.3100	15.47	20.30	35.77	50.00	-14.23	AVG	
9	12.9300	15.51	20.29	35.80	50.00	-14.20	AVG	
10	13.4540	16.02	20.28	36.30	50.00	-13.70	AVG	
11	16.3660	14.63	20.28	34.91	50.00	-15.09	AVG	
12	17.0340	13.87	20.29	34.16	50.00	-15.84	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	1GHz~25GHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

- (1)The lower limit shall apply at the transition frequency.
(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

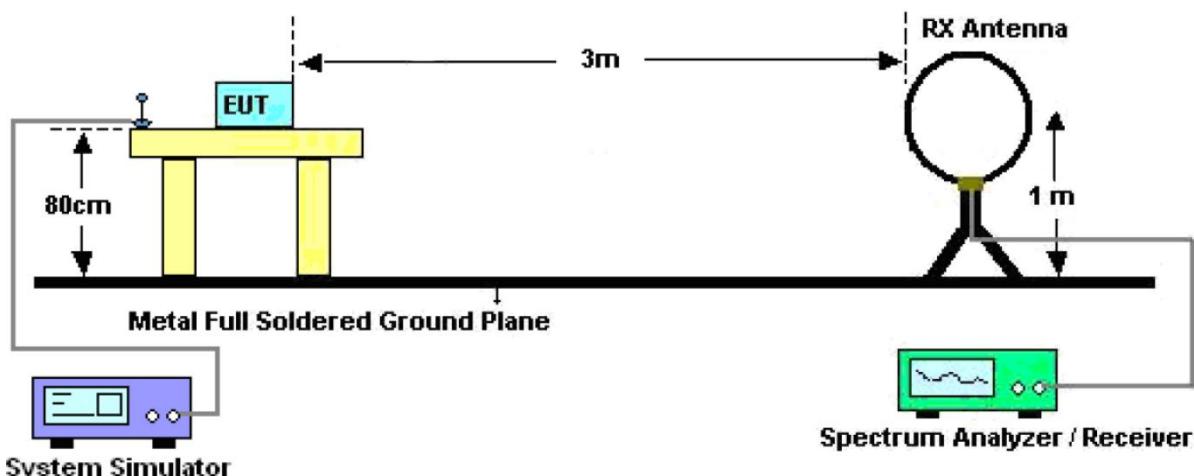


Figure 1. Below 30MHz

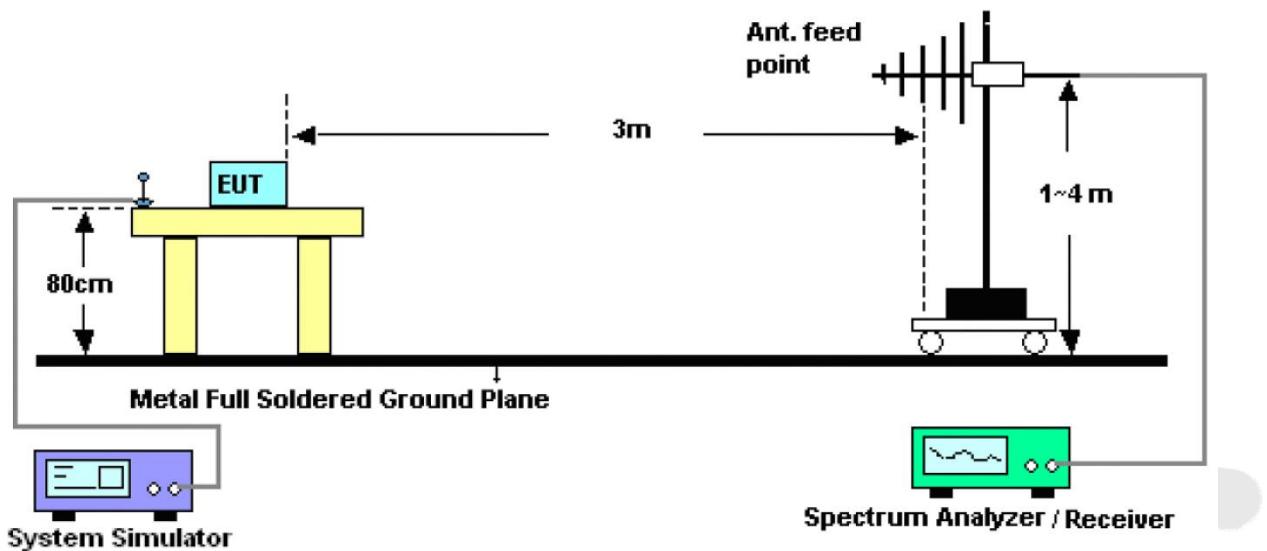


Figure 2. 30MHz to 1GHz

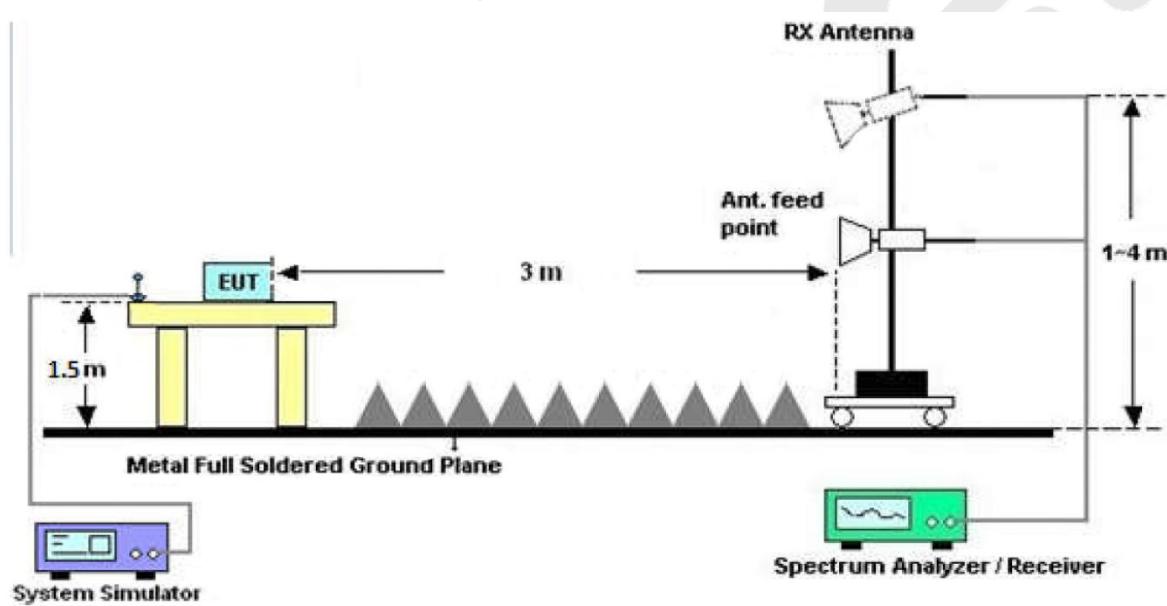


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying

aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

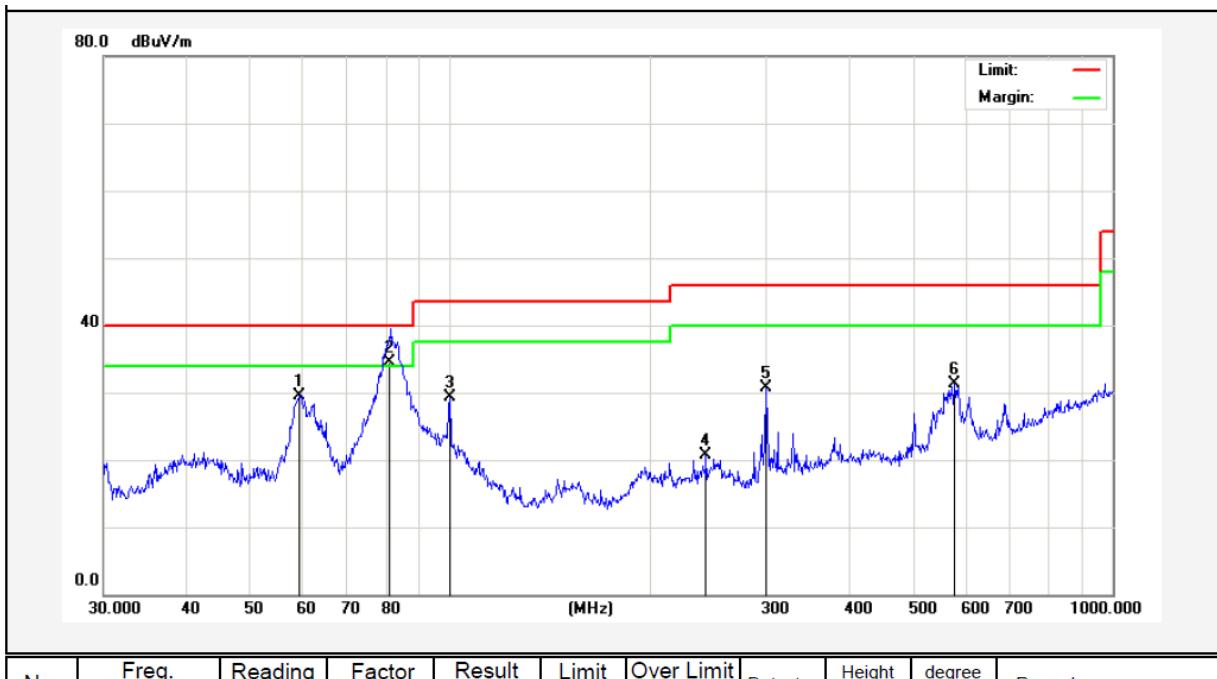
PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Test Results (30~1000MHz)

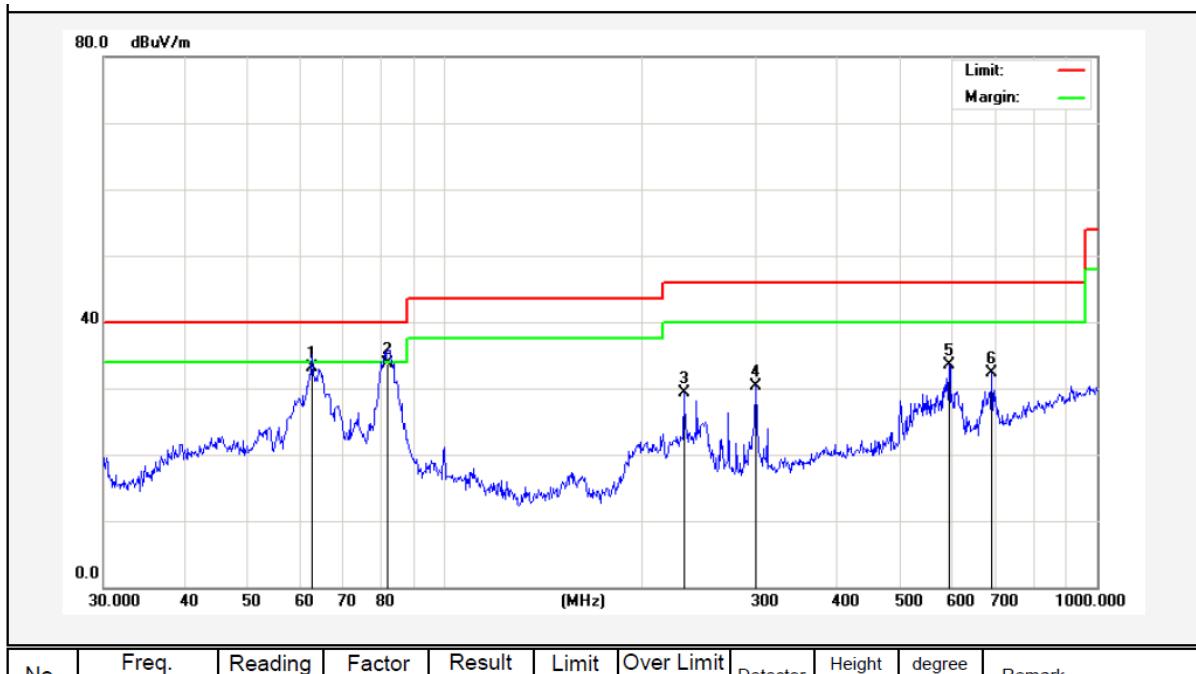
Job No.:	0217100027W	Temp.(°C)/Hum.(%RH):	24.3°C/55%RH
Standard:	FCC PART 15C	Power Source:	DC 5V
Test Mode:	TX Mode	Polarization:	Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	59.2325	44.83	-15.32	29.51	40.00	-10.49	QP	300	14	
2	81.1970	56.19	-21.59	34.60	40.00	-5.40	QP	300	79	
3	99.8777	50.16	-20.78	29.38	43.50	-14.12	QP	300	124	
4	243.3772	38.92	-18.24	20.68	46.00	-25.32	QP	300	165	
5	300.3672	48.38	-17.65	30.73	46.00	-15.27	QP	300	199	
6	576.6443	42.45	-11.17	31.28	46.00	-14.72	QP	300	234	

Test Results (30~1000MHz)

Job No.:	0217100027W	Temp.(°C)/Hum.(%RH):	24.3°C/55%RH
Standard:	FCC PART 15C	Power Source:	DC 5V
Test Mode:	TX Mode	Polarization:	Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	62.6507	49.66	-16.50	33.16	40.00	-6.84	QP	300	14	
2	81.7833	53.10	-19.39	33.71	40.00	-6.29	QP	300	54	
3	232.5318	43.79	-14.47	29.32	46.00	-16.68	QP	300	114	
4	300.3672	45.09	-14.69	30.40	46.00	-15.60	QP	300	162	
5	593.0497	42.91	-9.36	33.55	46.00	-12.45	QP	300	197	
6	689.5644	40.93	-8.56	32.37	46.00	-13.63	QP	300	212	

Test Results (1GHz-25GHz)

Test Mode: 802.11b Mode				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	40.47	34.13	6.61	34.09	47.12	74.00	-26.88	V
7236.00	34.33	37.14	7.74	34.51	44.70	74.00	-29.30	V
9648.00	32.79	39.35	9.26	34.80	46.60	74.00	-27.40	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4824.00	39.11	34.13	6.61	34.09	45.76	74.00	-28.24	H
7236.00	34.06	37.14	7.74	34.51	44.43	74.00	-29.57	H
9648.00	32.37	39.35	9.26	34.80	46.18	74.00	-27.82	H
12060.00	*					74.00		H
14472.00	*					74.00		H
16884.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	29.54	34.13	6.61	34.09	36.19	54.00	-17.81	V
7236.00	23.19	37.14	7.74	34.51	33.56	54.00	-20.44	V
9648.00	23.14	39.35	9.26	34.80	36.95	54.00	-17.05	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4824.00	28.64	34.13	6.61	34.09	35.29	54.00	-18.71	H
7236.00	22.64	37.14	7.74	34.51	33.01	54.00	-20.99	H
9648.00	22.11	39.35	9.26	34.80	35.92	54.00	-18.08	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H

Test Results (1GHz-25GHz)

Test Mode: 802.11b Mode				Test channel: Middle				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	39.50	34.35	6.67	34.09	46.43	74.00	-27.57	V
7311.00	34.38	37.21	7.77	34.53	44.83	74.00	-29.17	V
9748.00	33.80	39.45	9.33	34.80	47.78	74.00	-26.22	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	39.95	34.35	6.67	34.09	46.88	74.00	-27.12	H
7311.00	33.01	37.21	7.77	34.53	43.46	74.00	-30.54	H
9748.00	33.68	39.45	9.33	34.80	47.66	74.00	-26.34	H
12185.00	*					74.00		H
14622.00	*					74.00		H
17059.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	30.34	34.35	6.67	34.09	37.27	54.00	-16.73	V
7311.00	22.69	37.21	7.77	34.53	33.14	54.00	-20.86	V
9748.00	23.05	39.45	9.33	34.80	37.03	54.00	-16.97	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	30.06	34.35	6.67	34.09	36.99	54.00	-17.01	H
7311.00	22.10	37.21	7.77	34.53	32.55	54.00	-21.45	H
9748.00	23.40	39.45	9.33	34.80	37.38	54.00	-16.62	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H

Test Results (1GHz-25GHz)

Test Mode: 802.11b Mode				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	45.13	34.57	6.74	34.09	52.35	74.00	-21.65	V
7386.00	35.12	37.29	7.80	34.55	45.66	74.00	-28.34	V
9848.00	37.14	39.55	9.41	34.81	51.29	74.00	-22.71	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4924.00	44.40	34.57	6.74	34.09	51.62	74.00	-22.38	H
7386.00	34.00	37.29	7.80	34.55	44.54	74.00	-29.46	H
9848.00	33.30	39.55	9.41	34.81	47.45	74.00	-26.55	H
12310.00	*					74.00		H
14772.00	*					74.00		H
17234.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4924.00	36.03	34.57	6.74	34.09	43.25	54.00	-10.75	V
7386.00	25.03	37.29	7.80	34.55	35.57	54.00	-18.43	V
9848.00	25.64	39.55	9.41	34.81	39.79	54.00	-14.21	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4924.00	34.75	34.57	6.74	34.09	41.97	54.00	-12.03	H
7386.00	23.39	37.29	7.80	34.55	33.93	54.00	-20.07	H
9848.00	22.56	39.55	9.41	34.81	36.71	54.00	-17.29	H
12310.00	*					54.00		H
14772.00	*					54.00		H
17234.00	*					54.00		H

Remark:

- During the test, pre-scan the 802.11b,g,n(HT20N),n(HT40N) mode, and found the 802.11b mode is worse case , the report only record this mode.
- Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Band Edge:

Test Mode: 802.11b Mode				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	52.50	29.15	3.41	34.01	51.05	74.00	-22.95	H
2400.00	61.80	29.16	3.43	34.01	60.38	74.00	-13.62	H
2390.00	54.24	29.15	3.41	34.01	52.79	74.00	-21.21	V
2400.00	63.82	29.16	3.43	34.01	62.40	74.00	-11.60	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	39.02	29.15	3.41	34.01	37.57	54.00	-16.43	H
2400.00	47.40	29.16	3.43	34.01	45.98	54.00	-8.02	H
2390.00	40.90	29.15	3.41	34.01	39.45	54.00	-14.55	V
2400.00	48.59	29.16	3.43	34.01	47.17	54.00	-6.83	V

Test Mode: 802.11b Mode				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	53.52	29.28	3.53	34.03	52.30	74.00	-21.70	H
2500.00	49.08	29.30	3.56	34.03	47.91	74.00	-26.09	H
2483.50	55.95	29.28	3.53	34.03	54.73	74.00	-19.27	V
2500.00	51.75	29.30	3.56	34.03	50.58	74.00	-23.42	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	39.51	29.28	3.53	34.03	38.29	54.00	-15.71	H
2500.00	35.45	29.30	3.56	34.03	34.28	54.00	-19.72	H
2483.50	41.53	29.28	3.53	34.03	40.31	54.00	-13.69	V
2500.00	37.36	29.30	3.56	34.03	36.19	54.00	-17.81	V

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

Radiated Band Edge:

Test Mode: 802.11g Mode				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.33	27.53	5.47	33.92	50.41	74.00	-23.59	H
2400.00	60.24	27.55	5.49	29.93	63.35	74.00	-10.65	H
2390.00	52.99	27.53	5.47	33.92	52.07	74.00	-21.93	V
2400.00	61.95	27.55	5.49	29.93	65.06	74.00	-8.94	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.19	27.53	5.47	33.92	37.27	54.00	-16.73	H
2400.00	46.45	27.55	5.49	29.93	49.56	54.00	-4.44	H
2390.00	39.98	27.53	5.47	33.92	39.06	54.00	-14.94	V
2400.00	47.55	27.55	5.49	29.93	50.66	54.00	-3.34	V

Test Mode: 802.11g Mode				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.85	29.28	3.53	34.03	50.63	74.00	-23.37	H
2500.00	47.78	29.30	3.56	34.03	46.61	74.00	-27.39	H
2483.50	54.05	29.28	3.53	34.03	52.83	74.00	-21.17	V
2500.00	50.23	29.30	3.56	34.03	49.06	74.00	-24.94	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.50	29.28	3.53	34.03	37.28	54.00	-16.72	H
2500.00	34.66	29.30	3.56	34.03	33.49	54.00	-20.51	H
2483.50	40.42	29.28	3.53	34.03	39.20	54.00	-14.80	V
2500.00	36.53	29.30	3.56	34.03	35.36	54.00	-18.64	V

Remark:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

Radiated Band Edge:

Test Mode: 802.11n20 Mode				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	50.91	27.53	5.47	33.92	49.99	74.00	-24.01	H
2400.00	59.67	27.55	5.49	29.93	62.78	74.00	-11.22	H
2390.00	52.54	27.53	5.47	33.92	51.62	74.00	-22.38	V
2400.00	61.27	27.55	5.49	29.93	64.38	74.00	-9.62	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	37.88	27.53	5.47	33.92	36.96	54.00	-17.04	H
2400.00	46.10	27.55	5.49	29.93	49.21	54.00	-4.79	H
2390.00	39.64	27.53	5.47	33.92	38.72	54.00	-15.28	V
2400.00	47.17	27.55	5.49	29.93	50.28	54.00	-3.72	V

Test Mode: 802.11n20 Mode				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.25	29.28	3.53	34.03	50.03	74.00	-23.97	H
2500.00	47.31	29.30	3.56	34.03	46.14	74.00	-27.86	H
2483.50	53.36	29.28	3.53	34.03	52.14	74.00	-21.86	V
2500.00	49.68	29.30	3.56	34.03	48.51	74.00	-25.49	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.14	29.28	3.53	34.03	36.92	54.00	-17.08	H
2500.00	34.38	29.30	3.56	34.03	33.21	54.00	-20.79	H
2483.50	40.02	29.28	3.53	34.03	38.80	54.00	-15.20	V
2500.00	36.23	29.30	3.56	34.03	35.06	54.00	-18.94	V

Remark:

1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

Radiated Band Edge:

Test Mode: 802.11n40 Mode				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	50.14	27.53	5.47	33.92	49.22	74.00	-24.78	H
2400.00	58.65	27.55	5.49	29.93	61.76	74.00	-12.24	H
2390.00	51.72	27.53	5.47	33.92	50.80	74.00	-23.20	V
2400.00	60.04	27.55	5.49	29.93	63.15	74.00	-10.85	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	37.34	27.53	5.47	33.92	36.42	54.00	-17.58	H
2400.00	45.47	27.55	5.49	29.93	48.58	54.00	-5.42	H
2390.00	39.04	27.53	5.47	33.92	38.12	54.00	-15.88	V
2400.00	46.48	27.55	5.49	29.93	49.59	54.00	-4.41	V

Test Mode: 802.11n40 Mode				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	50.16	29.28	3.53	34.03	48.94	74.00	-25.06	H
2500.00	46.46	29.30	3.56	34.03	45.29	74.00	-28.71	H
2483.50	52.11	29.28	3.53	34.03	50.89	74.00	-23.11	V
2500.00	48.69	29.30	3.56	34.03	47.52	74.00	-26.48	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	37.48	29.28	3.53	34.03	36.26	54.00	-17.74	H
2500.00	33.87	29.30	3.56	34.03	32.70	54.00	-21.30	H
2483.50	39.29	29.28	3.53	34.03	38.07	54.00	-15.93	V
2500.00	35.69	29.30	3.56	34.03	34.52	54.00	-19.48	V

Remark:

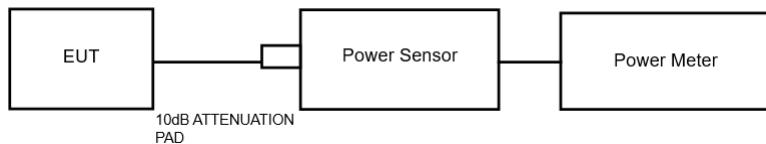
1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	30dBm

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

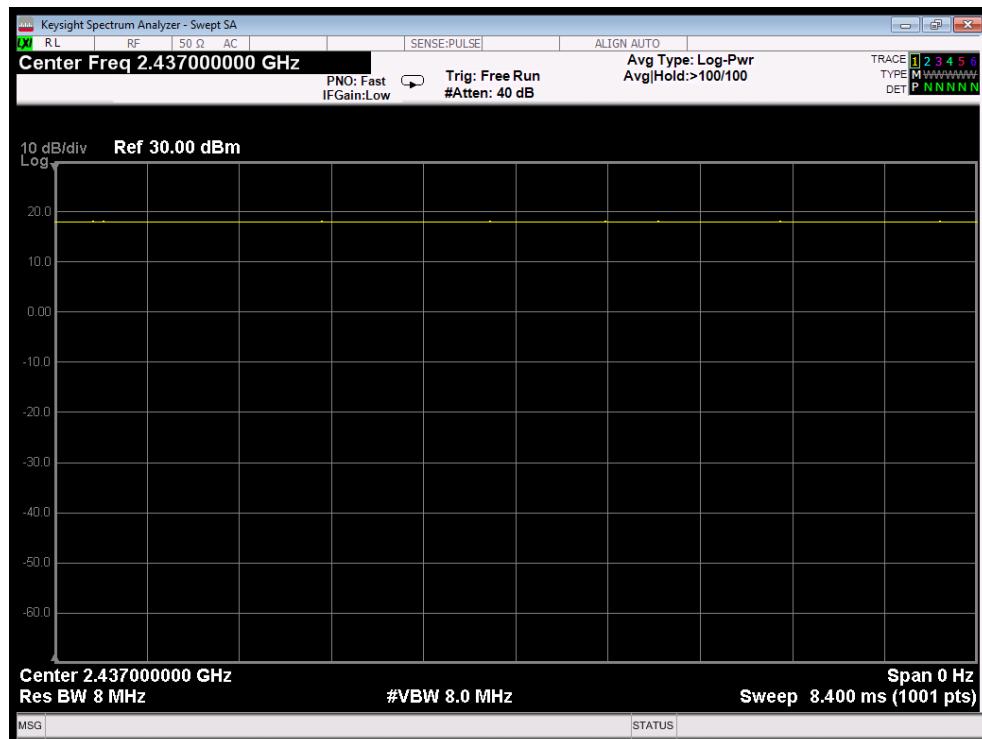
Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 5V	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (PK) (dBm)	Limit dBm	Results
TX 802.11b Mode				
CH01	2412	18.89	30	PASS
CH06	2437	18.47	30	PASS
CH11	2462	18.51	30	PASS
TX 802.11g Mode				
CH01	2412	16.08	30	PASS
CH06	2437	16.45	30	PASS
CH11	2462	17.03	30	PASS
TX 802.11n(20) Mode				
CH01	2412	15.57	30	PASS
CH06	2437	15.80	30	PASS
CH11	2462	15.22	30	PASS
TX 802.11n(40) Mode				
CH03	2422	14.83	30	PASS
CH06	2437	14.71	30	PASS
CH09	2452	15.15	30	PASS

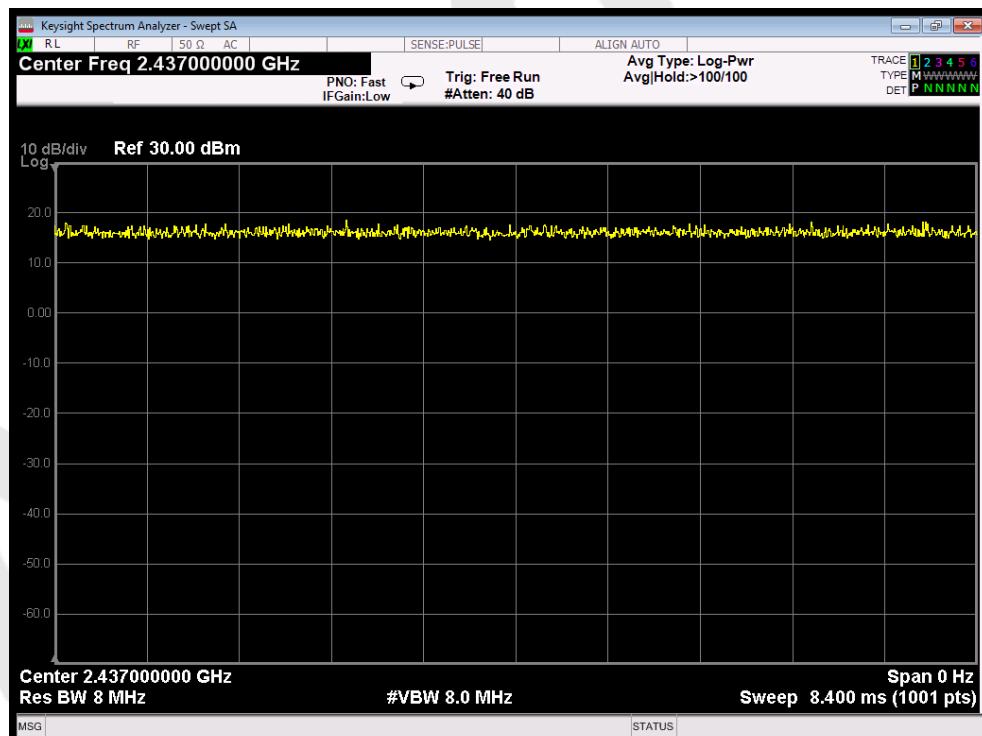
Note: For power test the duty cycle is 100% in continuous transmitting mode.

Please see the plot of next page

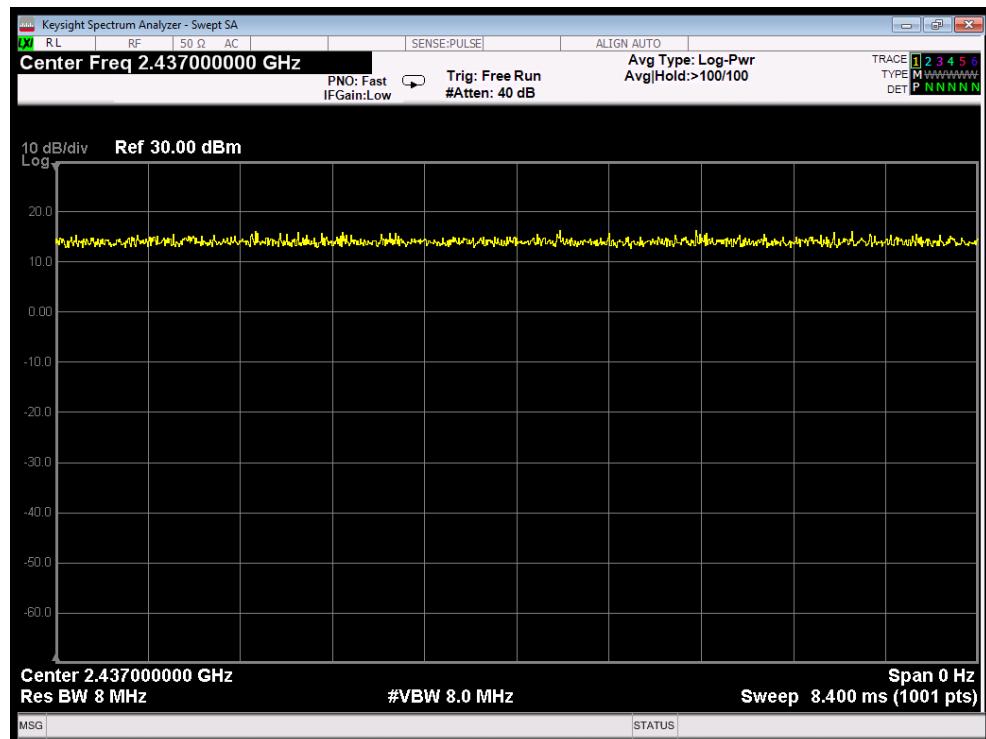
Duty Cycle



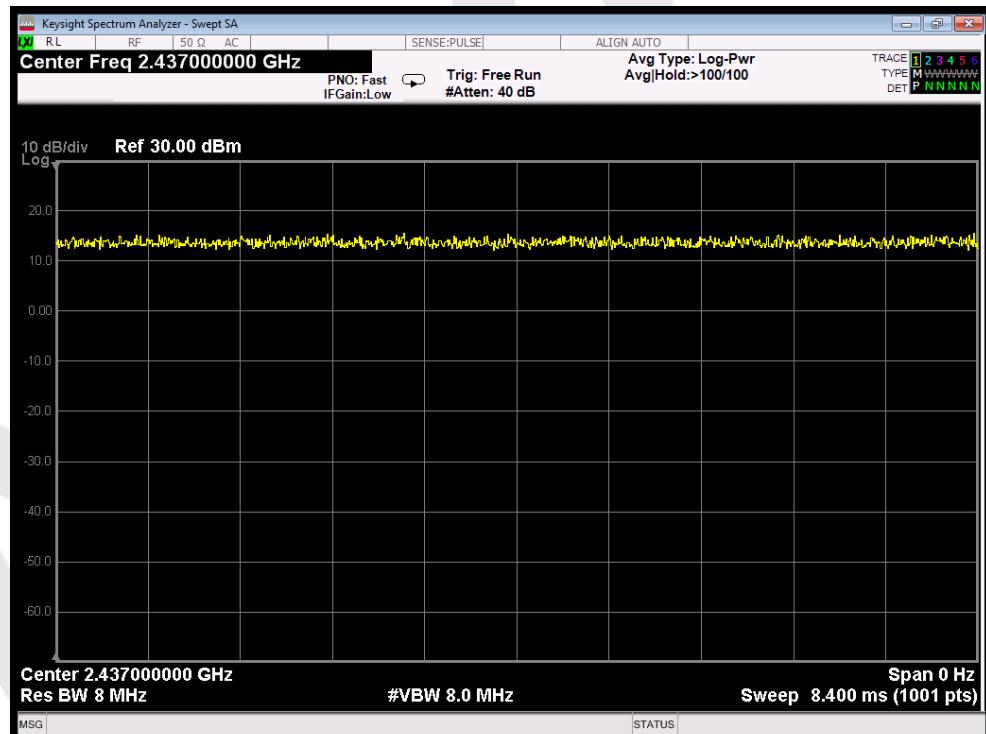
802.11b mode



802.11g mode



802.11n(HT20) mode



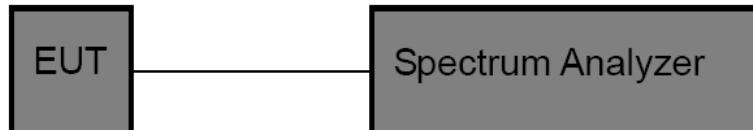
802.11n(HT40) mode

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	>500kHz

6.2. Test Setup



6.3. Test Procedure

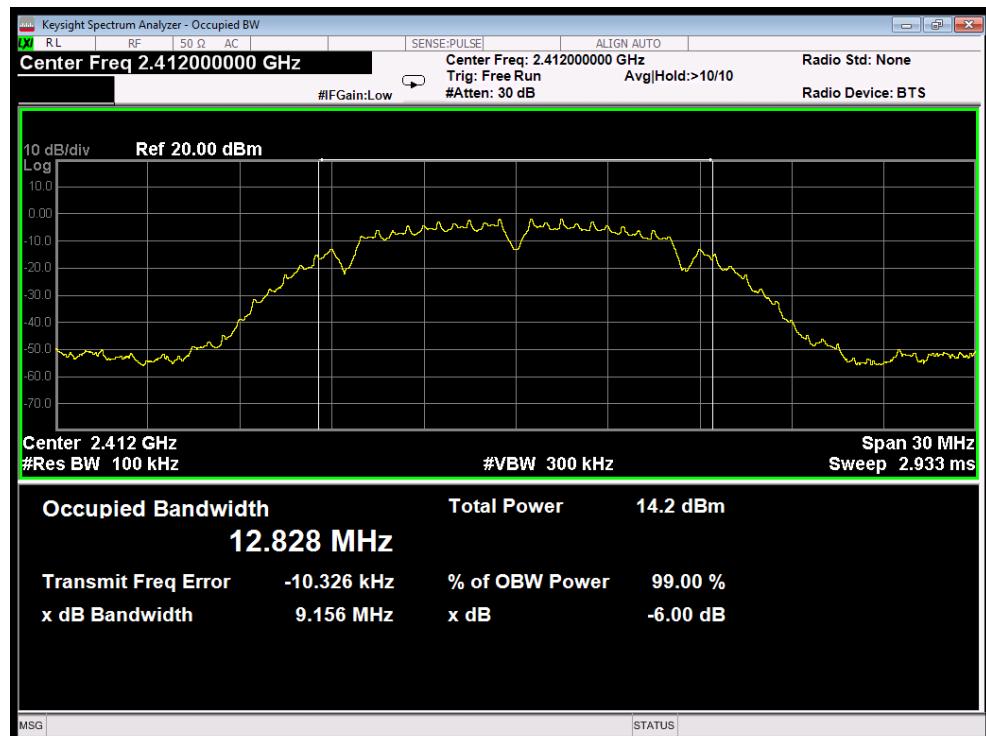
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 100kHz, VBW $\geq 3 \times$ RBW = 300kHz,
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

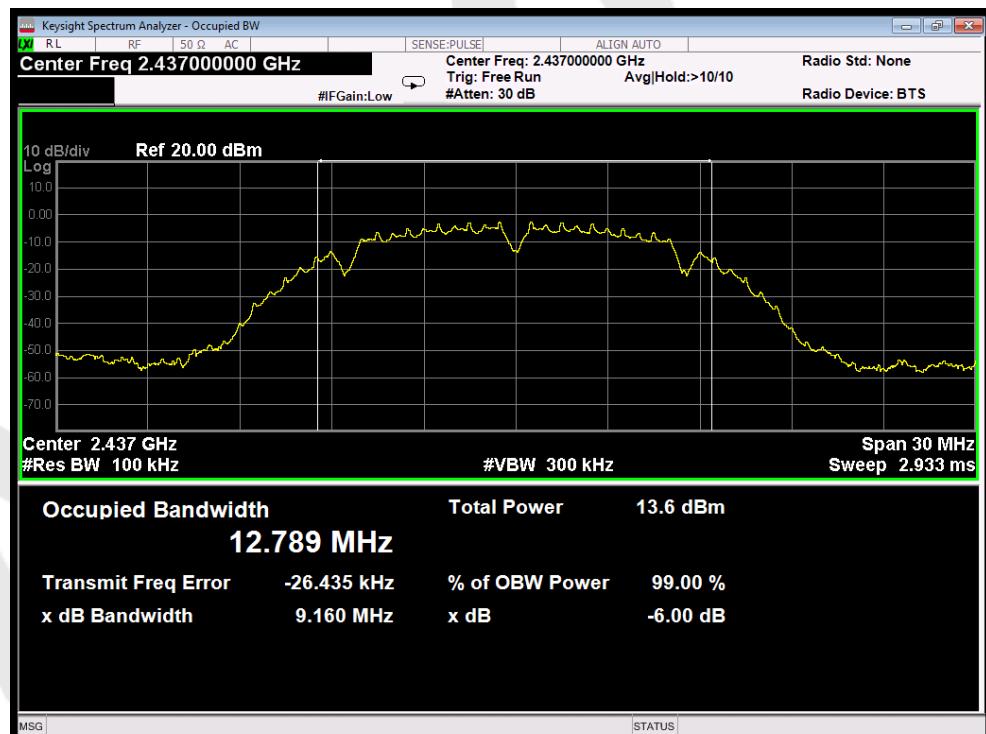
Test Item	:	6dB Bandwidth
Test Voltage	:	DC 5V
Test Result	:	PASS

Test Mode	:	CH Low ~ CH High
Temperature	:	24°C
Humidity	:	55%RH

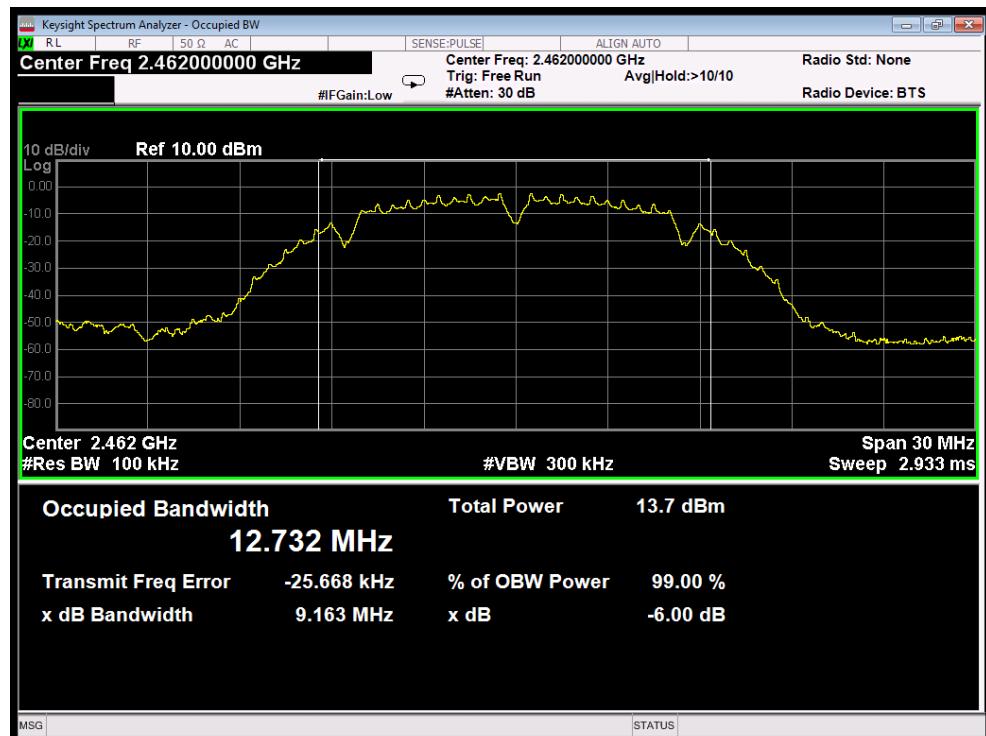
Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
802.11b	Low	2412	9.156	>500	PASS
	Middle	2437	9.160		PASS
	High	2462	9.163		PASS
802.11g	Low	2412	15.17	>500	PASS
	Middle	2437	15.15		PASS
	High	2462	15.47		PASS
802.11n20	Low	2412	15.15	>500	PASS
	Middle	2437	15.14		PASS
	High	2462	15.86		PASS
802.11n40	Low	2422	35.16	>500	PASS
	Middle	2437	35.12		PASS
	High	2452	35.16		PASS



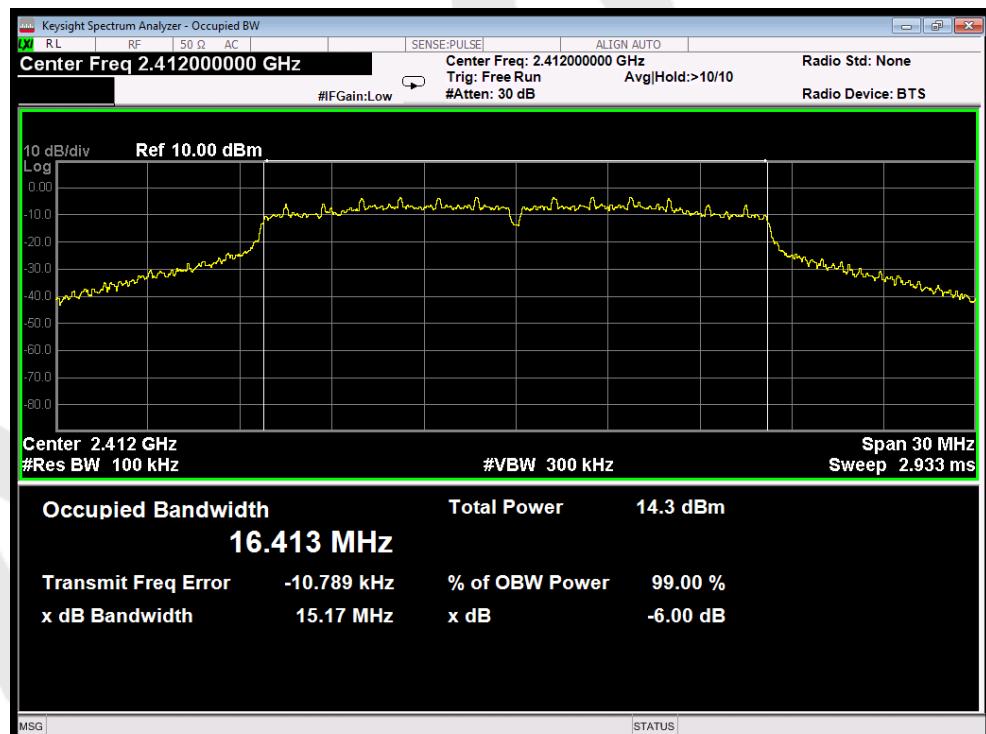
802.11b mode : Lowest



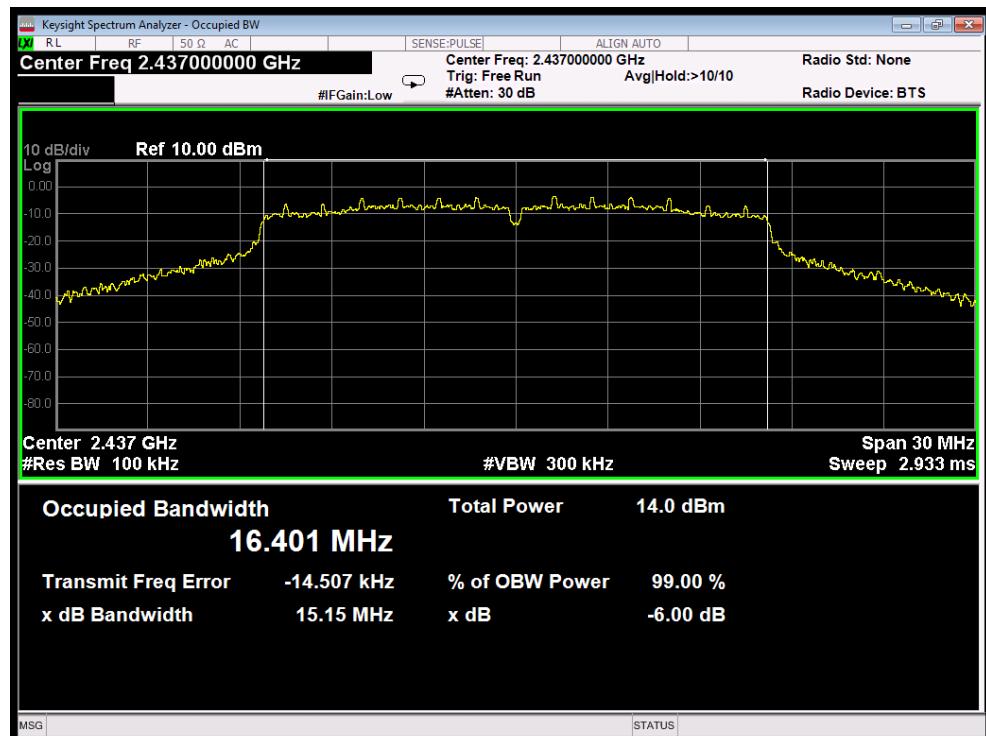
802.11b mode : Middle



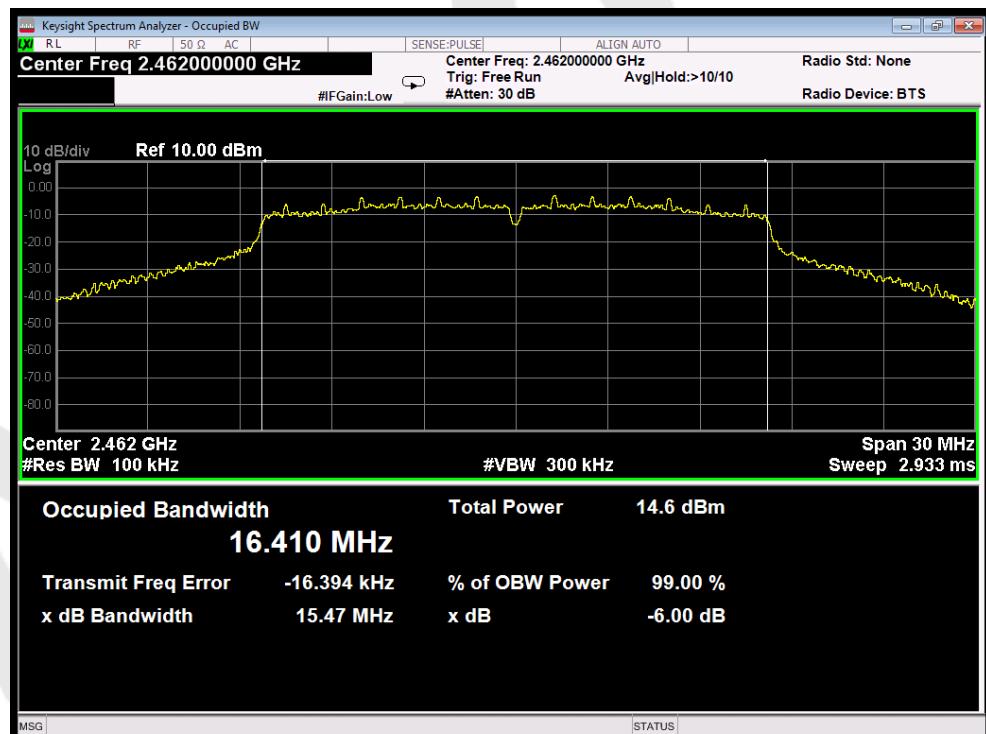
802.11b mode : Highest



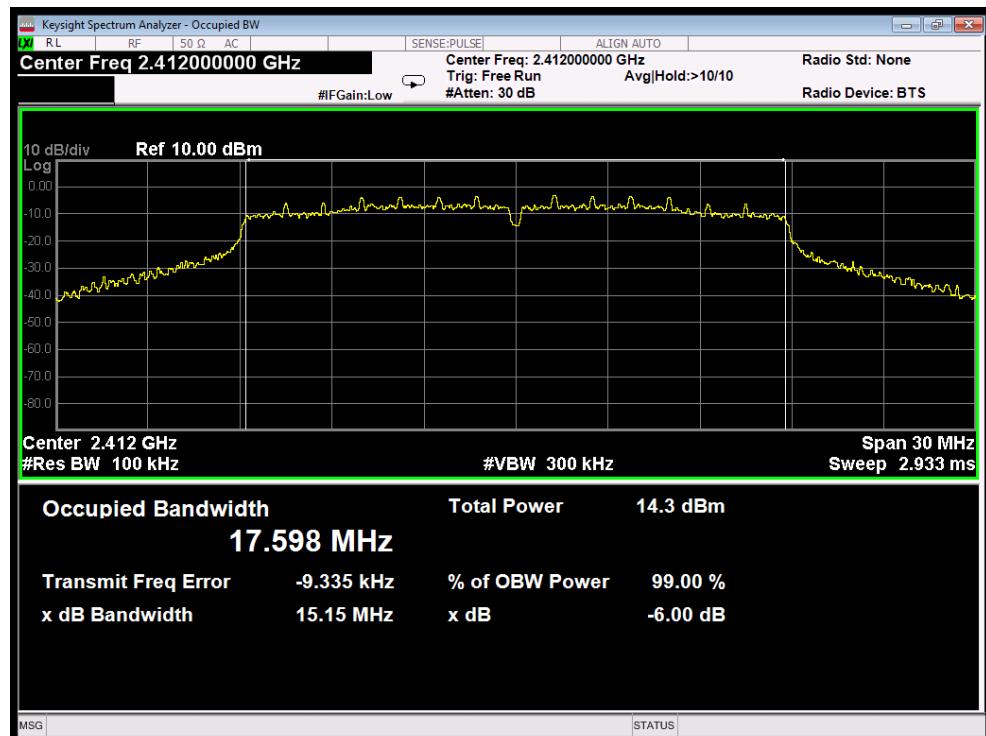
802.11g mode : Lowest



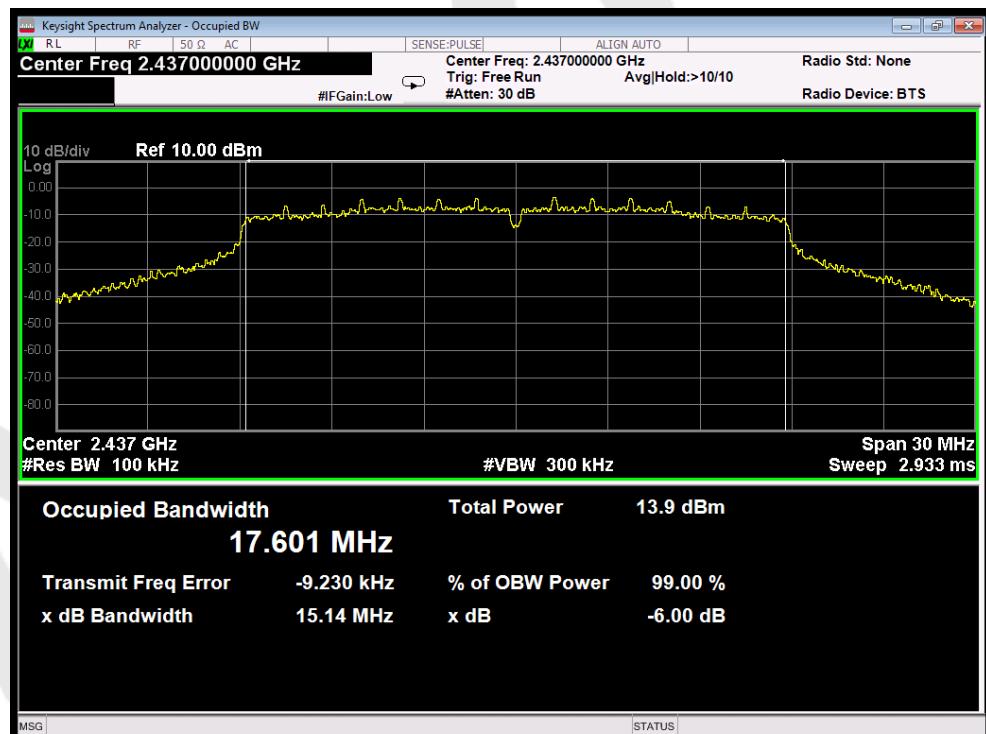
802.11g mode : Middle



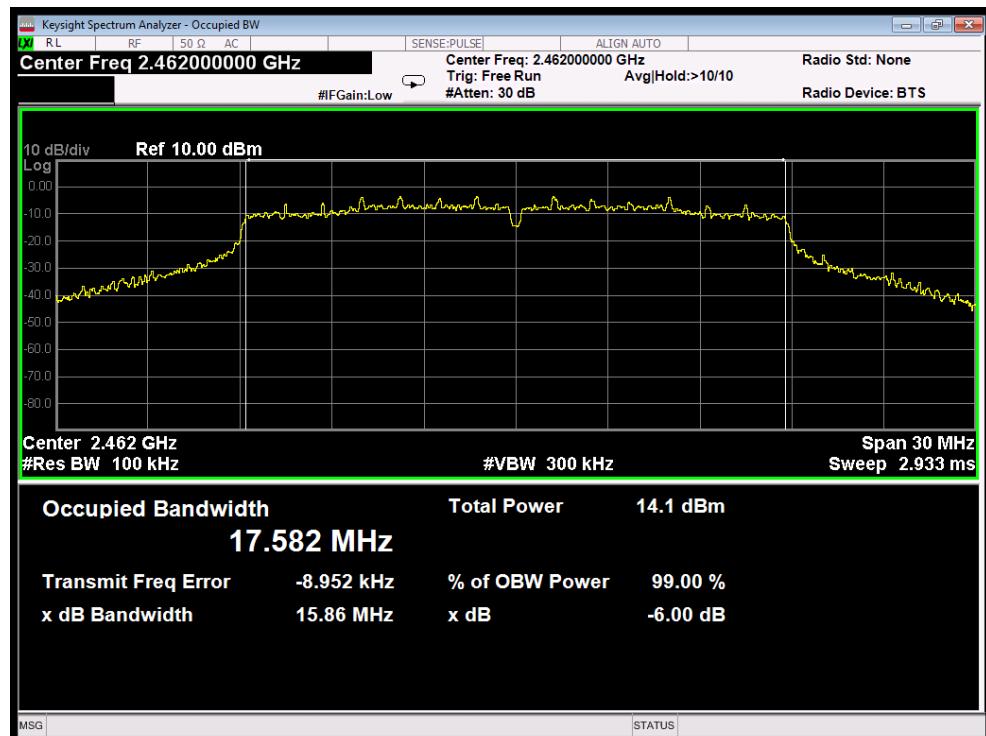
802.11g mode : Highest



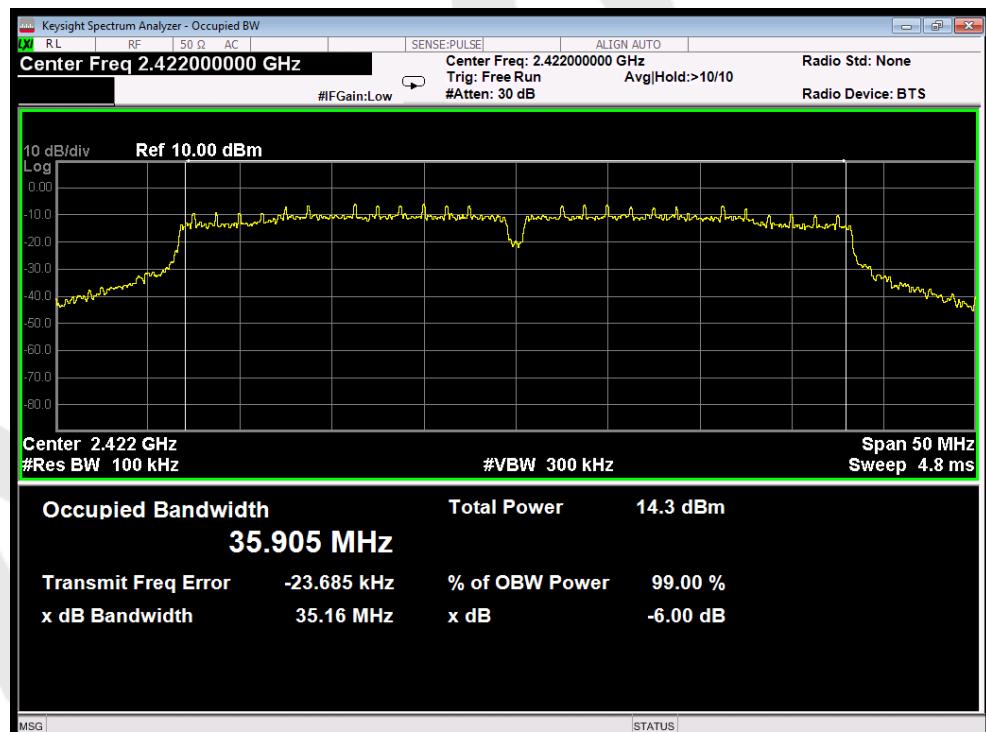
802.11n20 mode : Lowest



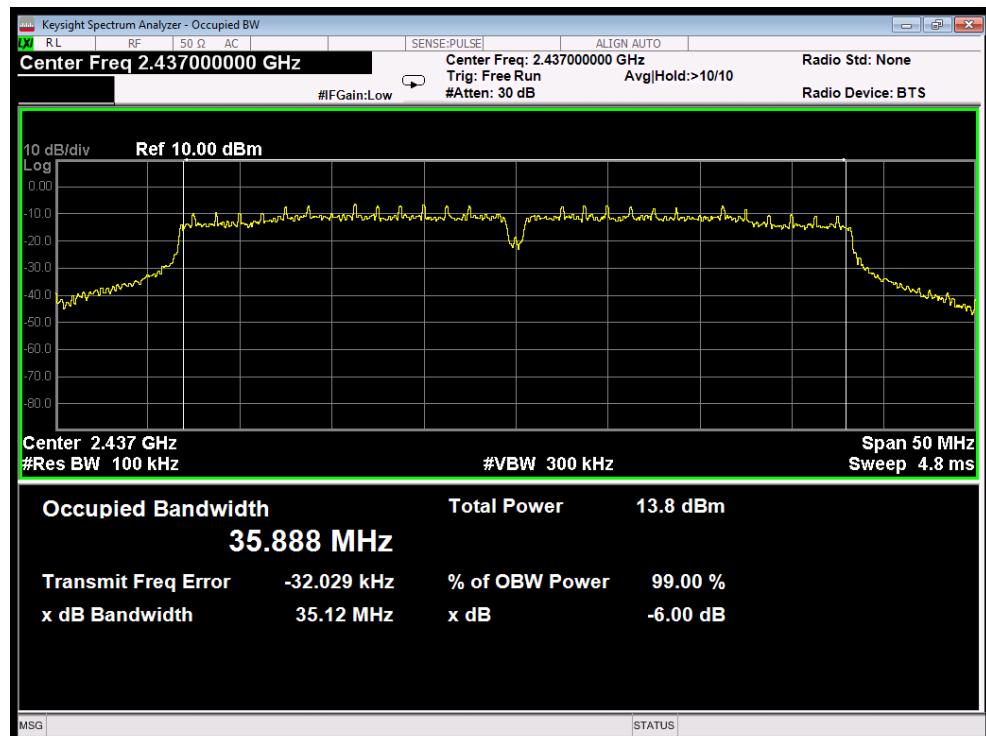
802.11n20 mode : Middle



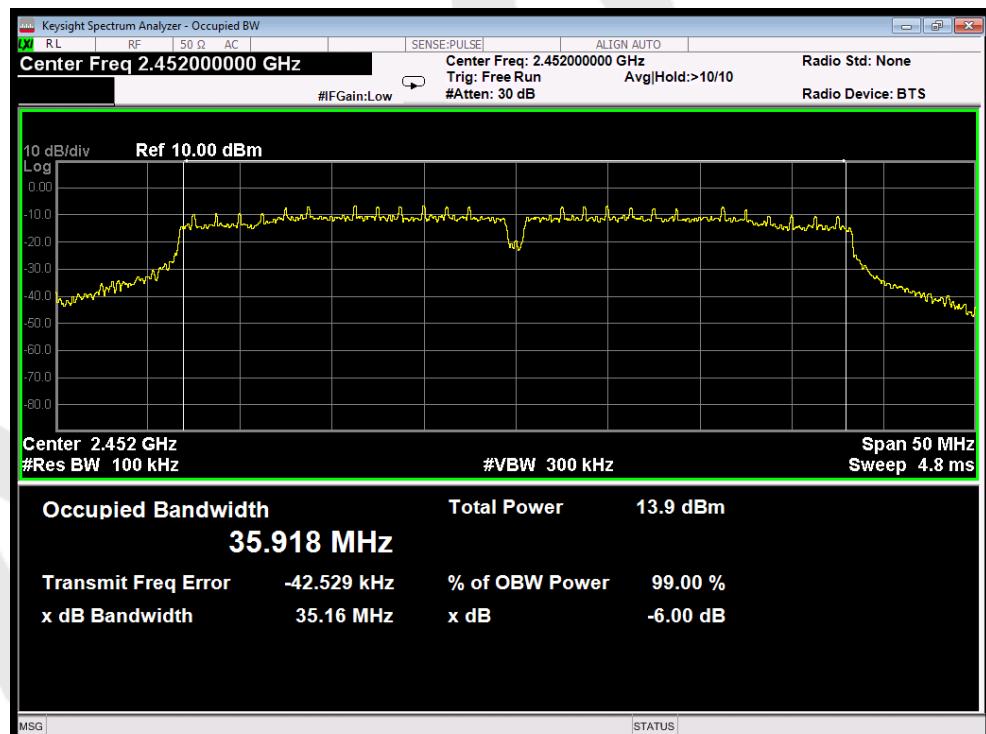
802.11n20 mode : Highest



802.11n40 mode : Lowest



802.11n40 mode : Middle



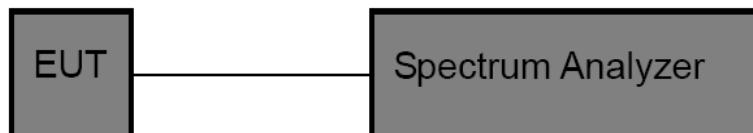
802.11n40 mode : Highest

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (e)
Test Limit	8dBm/3KHz

7.2. Test Setup



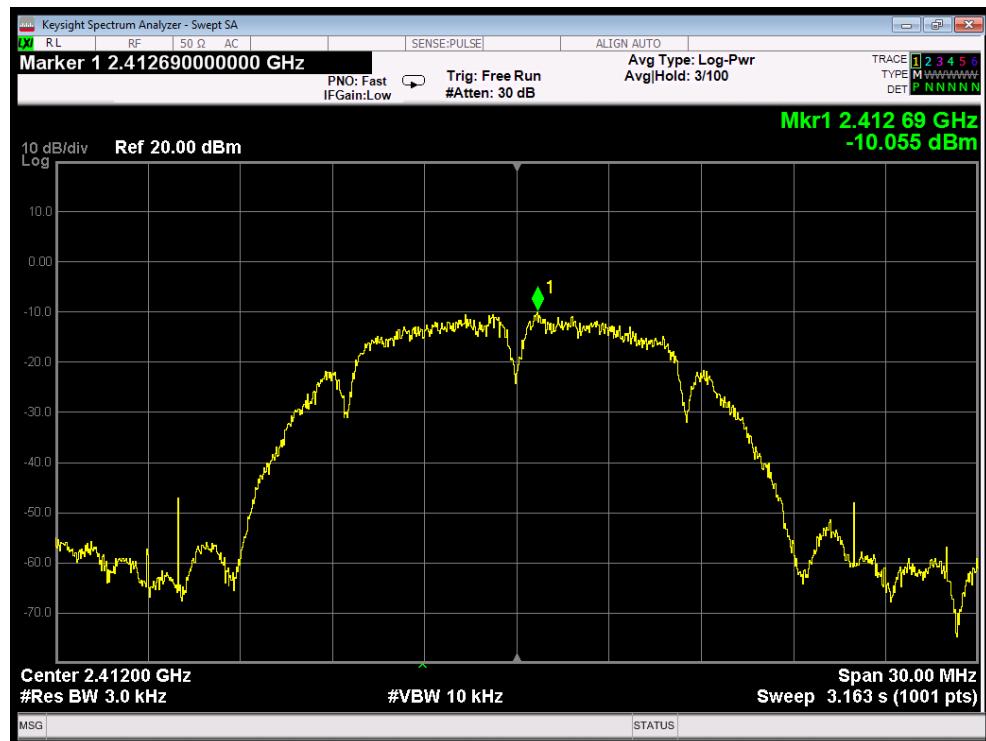
7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

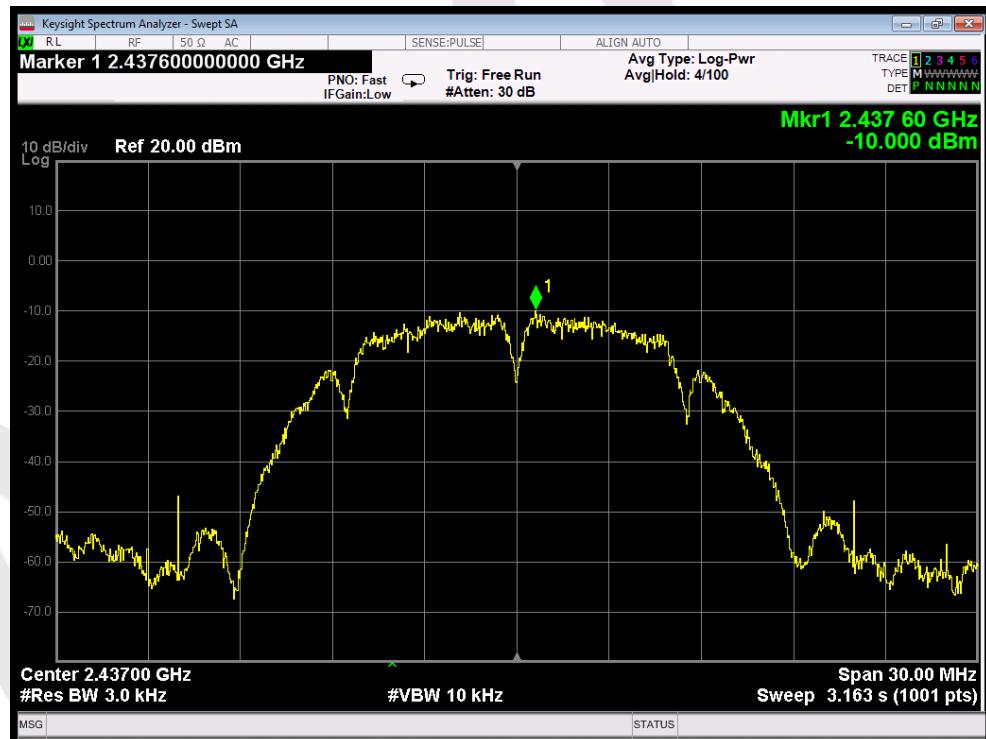
7.4. Test Data

Test Item	:	Power Spectral Density	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 5V	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

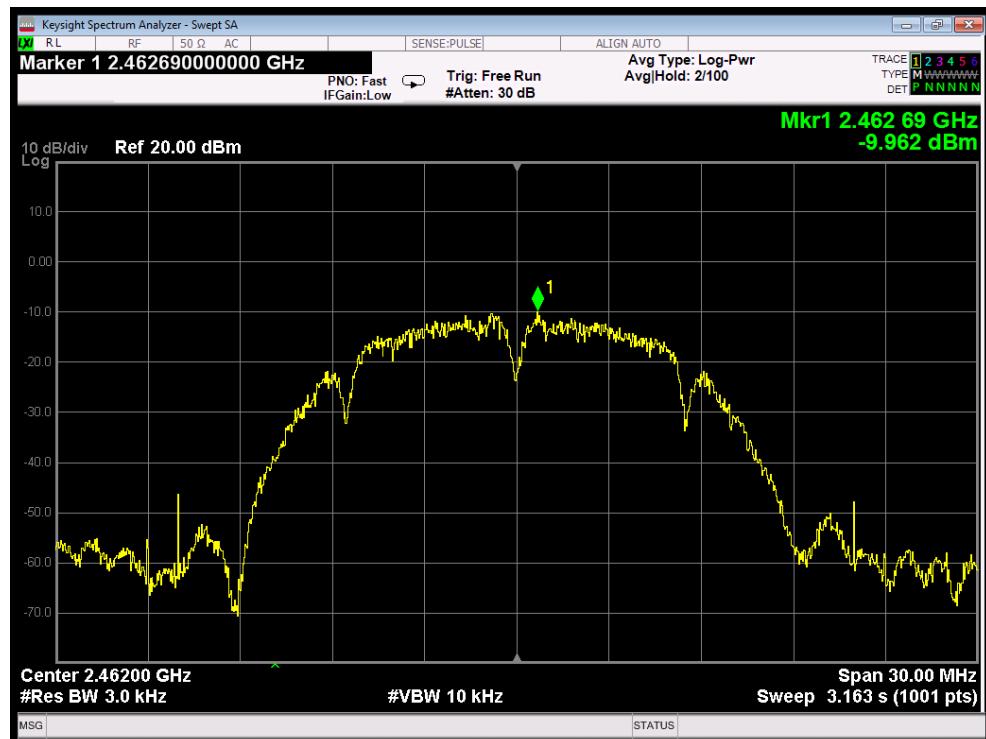
Mode	Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
802.11b	Low	2412	-10.055	8.00	PASS
	Middle	2437	-10.000	8.00	PASS
	High	2462	-9.962	8.00	PASS
802.11g	Low	2412	-15.810	8.00	PASS
	Middle	2437	-15.818	8.00	PASS
	High	2462	-14.814	8.00	PASS
802.11n20	Low	2412	-16.248	8.00	PASS
	Middle	2437	-17.168	8.00	PASS
	High	2462	-16.249	8.00	PASS
802.11n40	Low	2422	-20.338	8.00	PASS
	Middle	2437	-19.894	8.00	PASS
	High	2452	-19.579	8.00	PASS



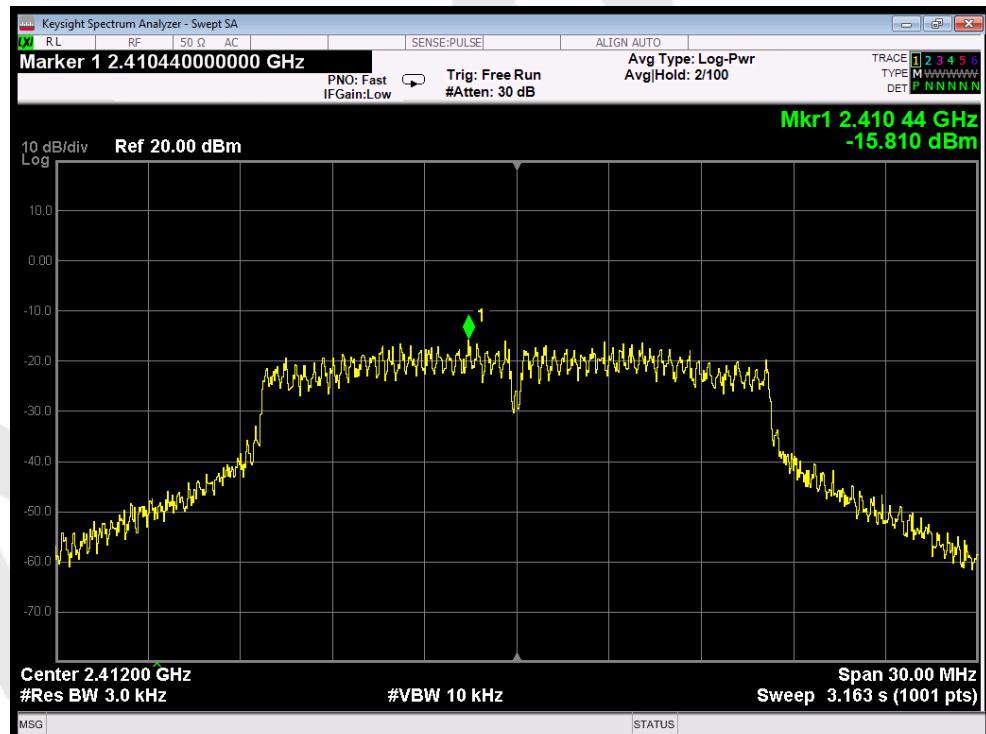
802.11b mode : Lowest



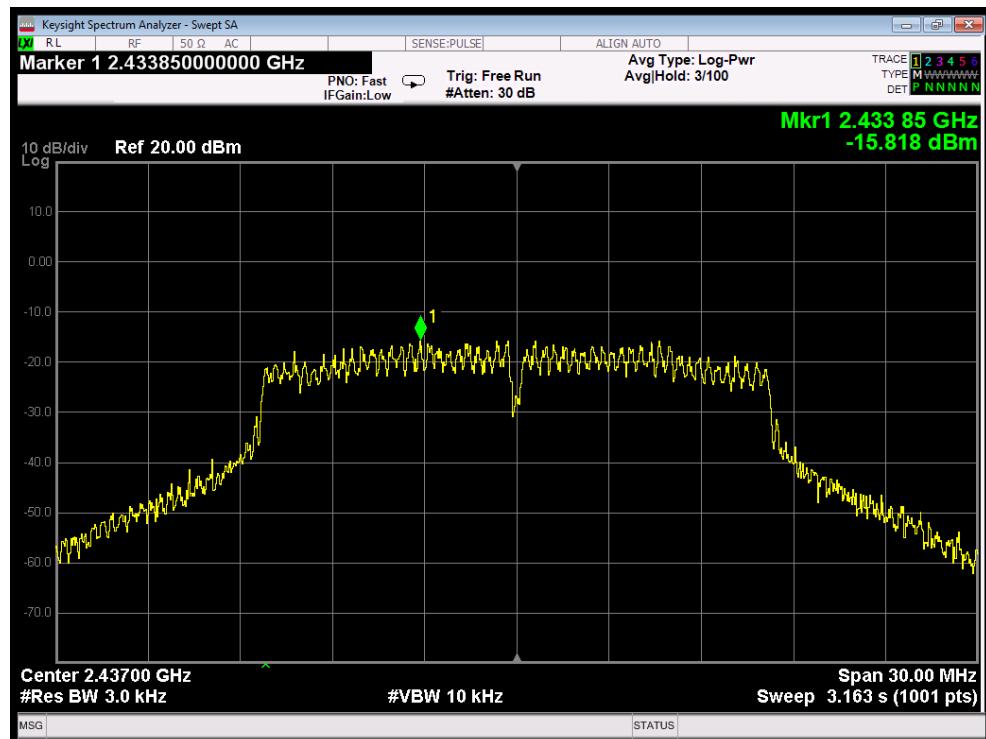
802.11b mode : Middle



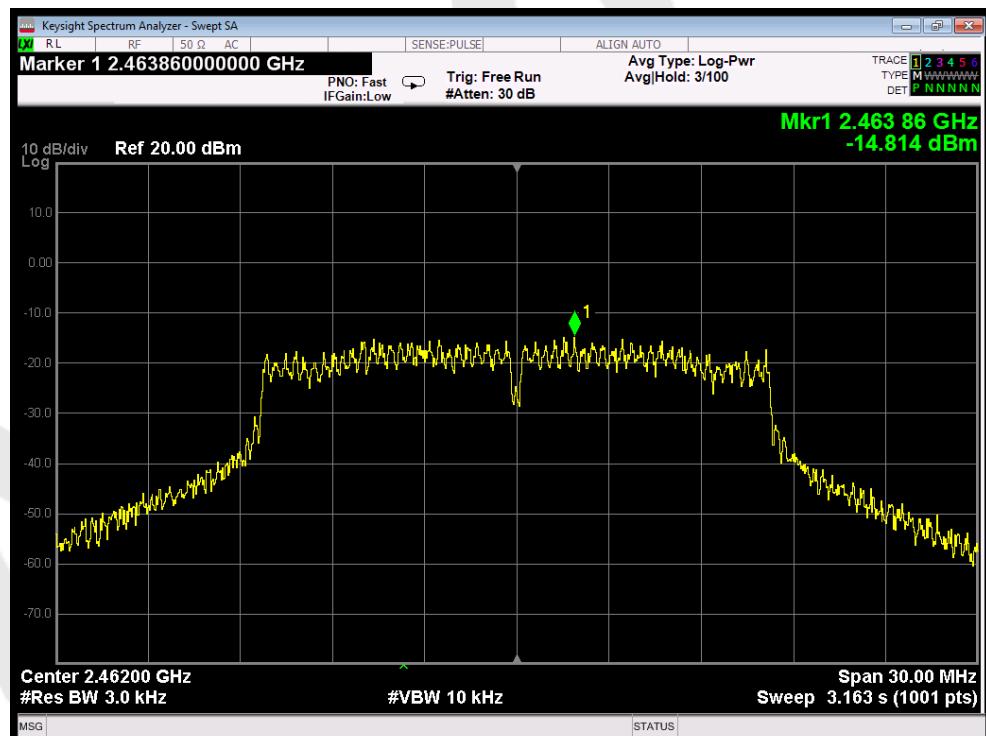
802.11b mode : Highest



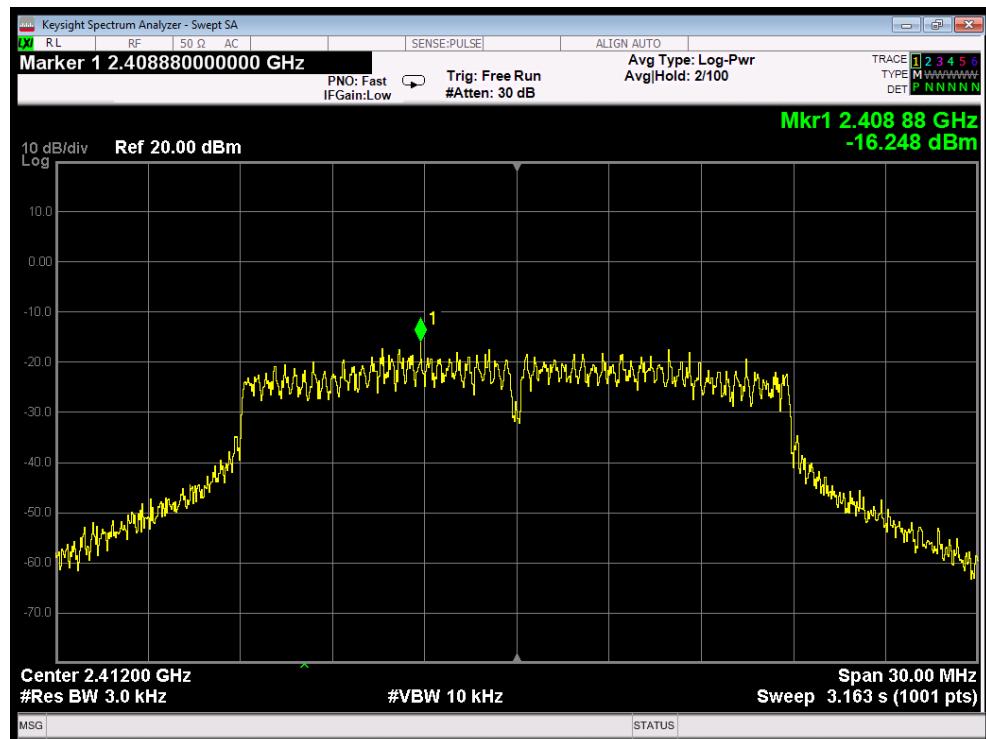
802.11g mode : Lowest



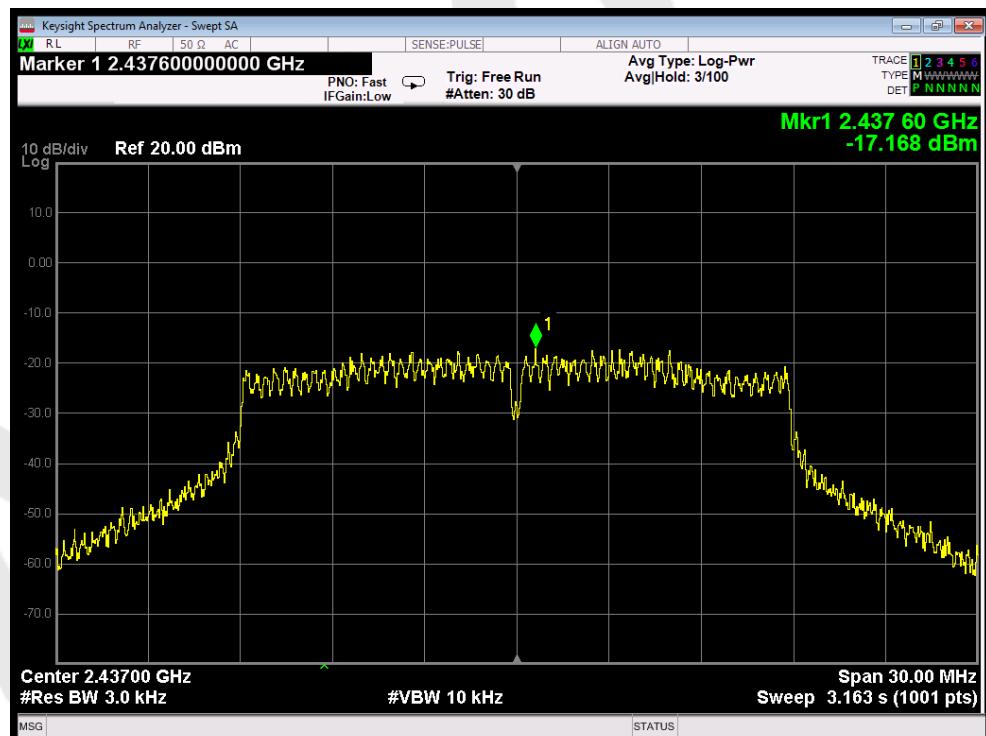
802.11g mode : Middle



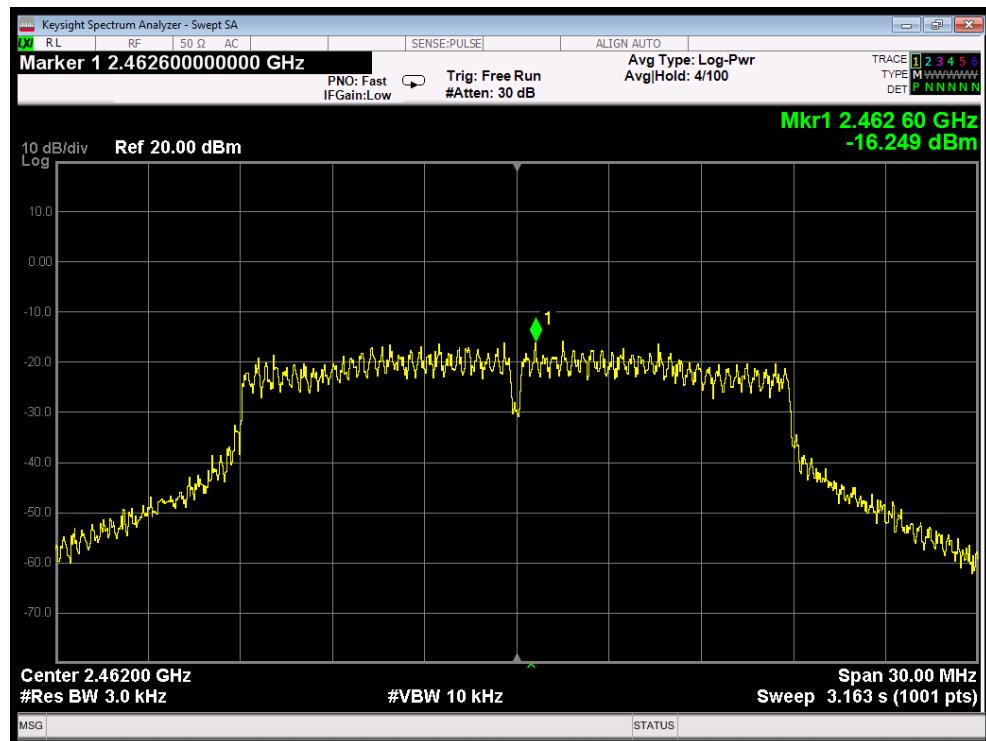
802.11g mode : Highest



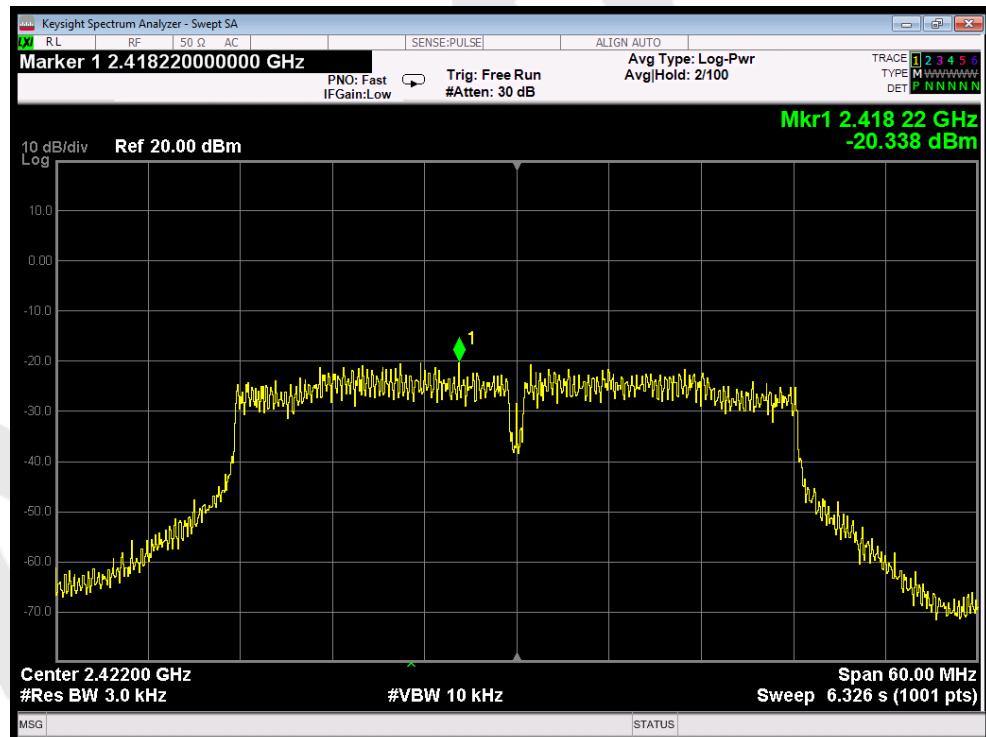
802.11n20 mode : Lowest



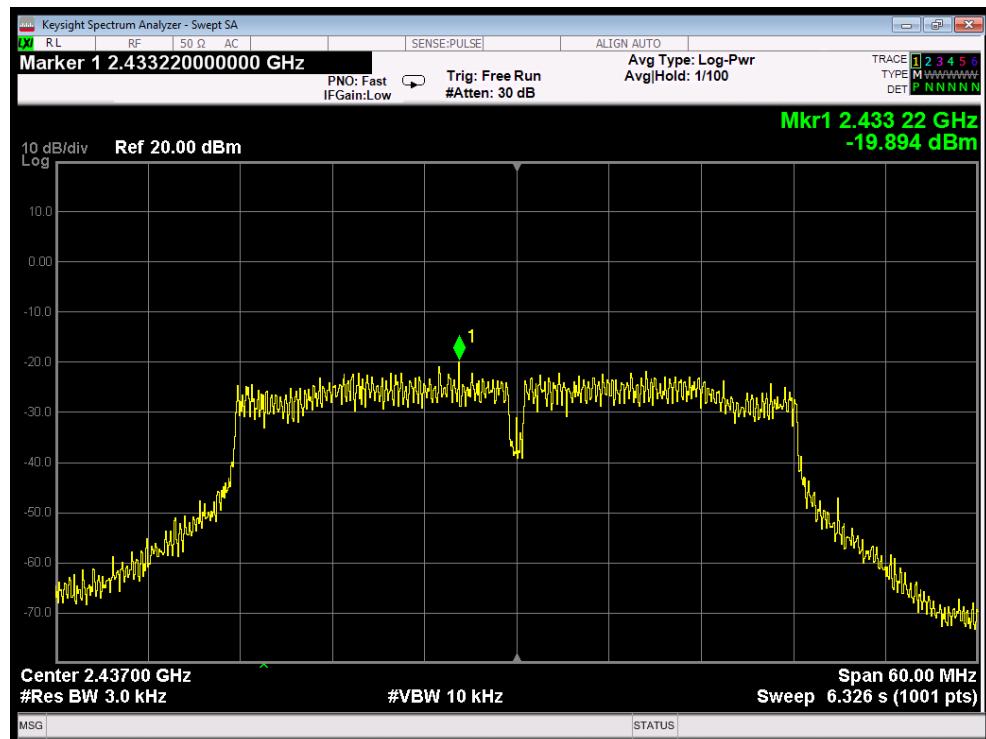
802.11n20 mode : Middle



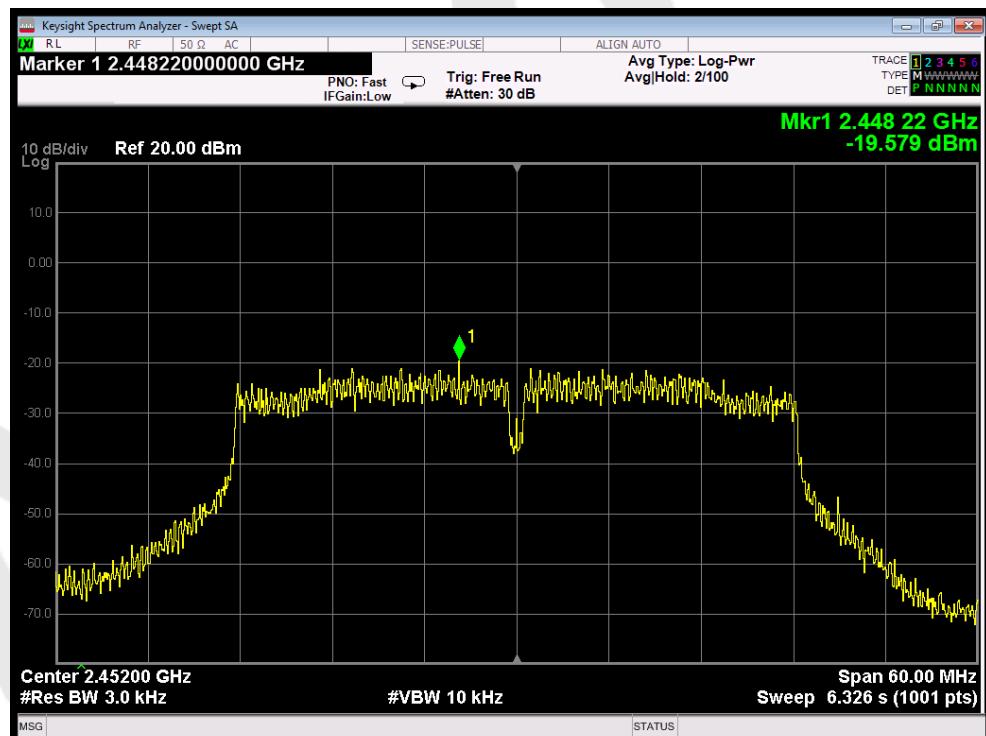
802.11n20 mode : Highest



802.11n40 mode : Lowest



802.11n40 mode : Middle



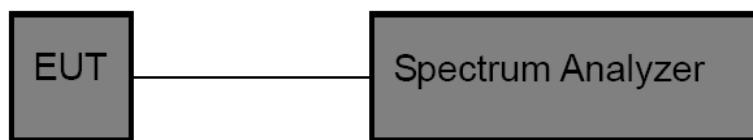
802.11n40 mode : Highest

8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

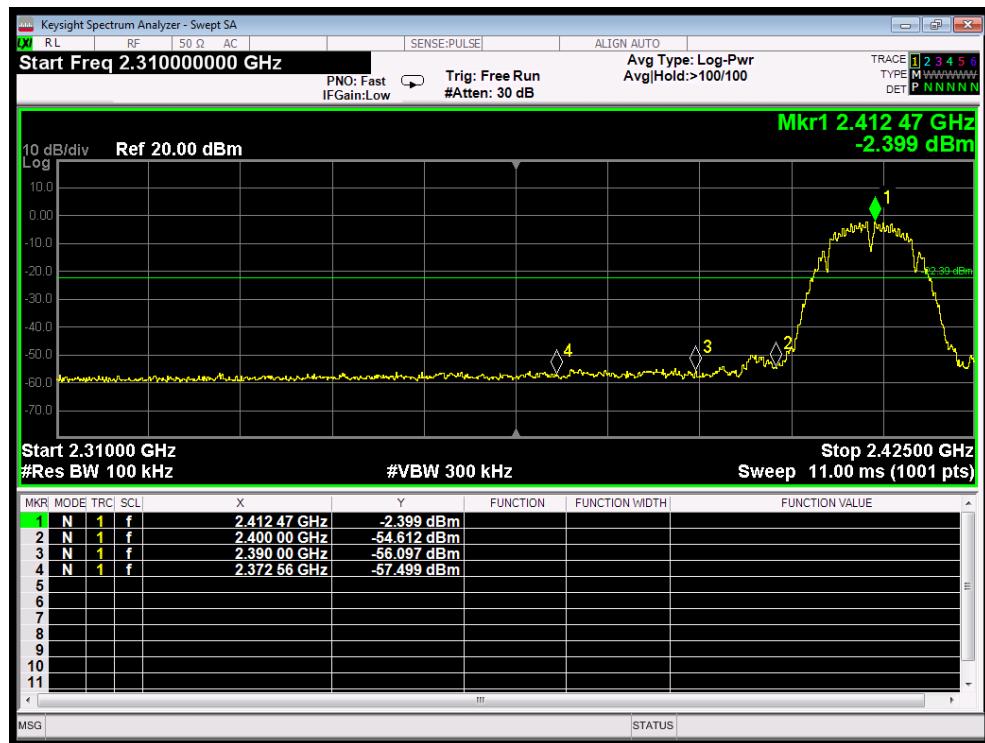
1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

8.4. Test Data

Test Item	:	Band edge
Test Voltage	:	DC 5V
Test Result	:	PASS

Test Mode	:	CH Low ~ CH High
Temperature	:	24°C
Humidity	:	55%RH

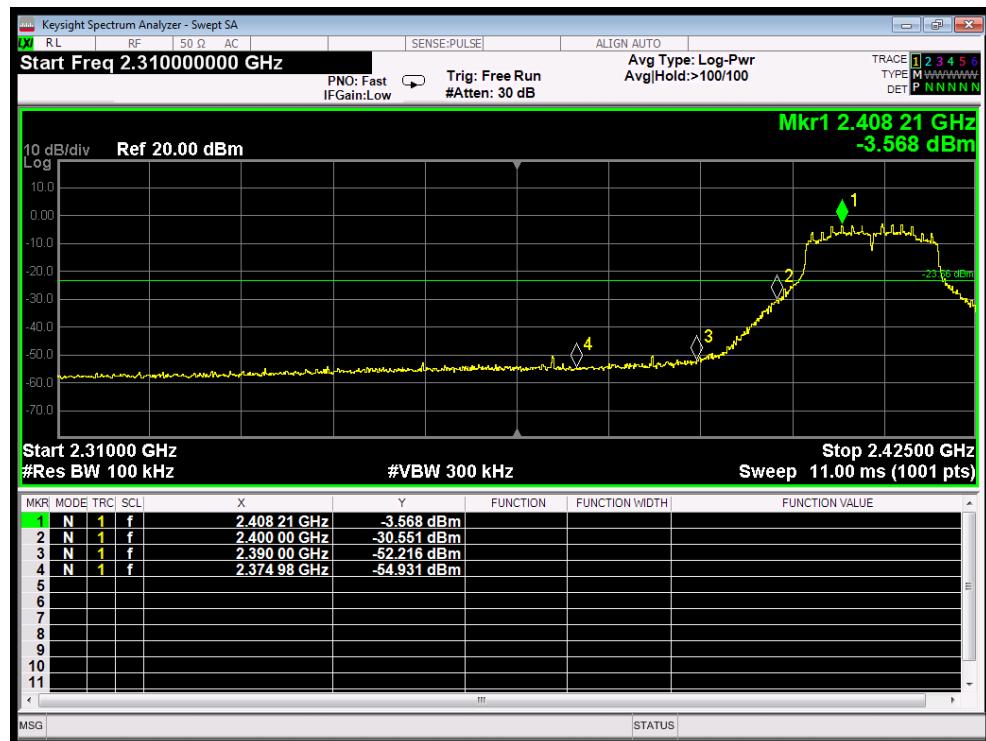
Mode	Frequency Band (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Results
802.11b	2412	52.213	>20	PASS
	2462	55.226	>20	PASS
802.11g	2412	26.983	>20	PASS
	2462	50.775	>20	PASS
802.11n20	2412	27.088	>20	PASS
	2462	50.594	>20	PASS
802.11n40	2422	31.161	>20	PASS
	2452	46.296	>20	PASS



802.11b mode : Lowest



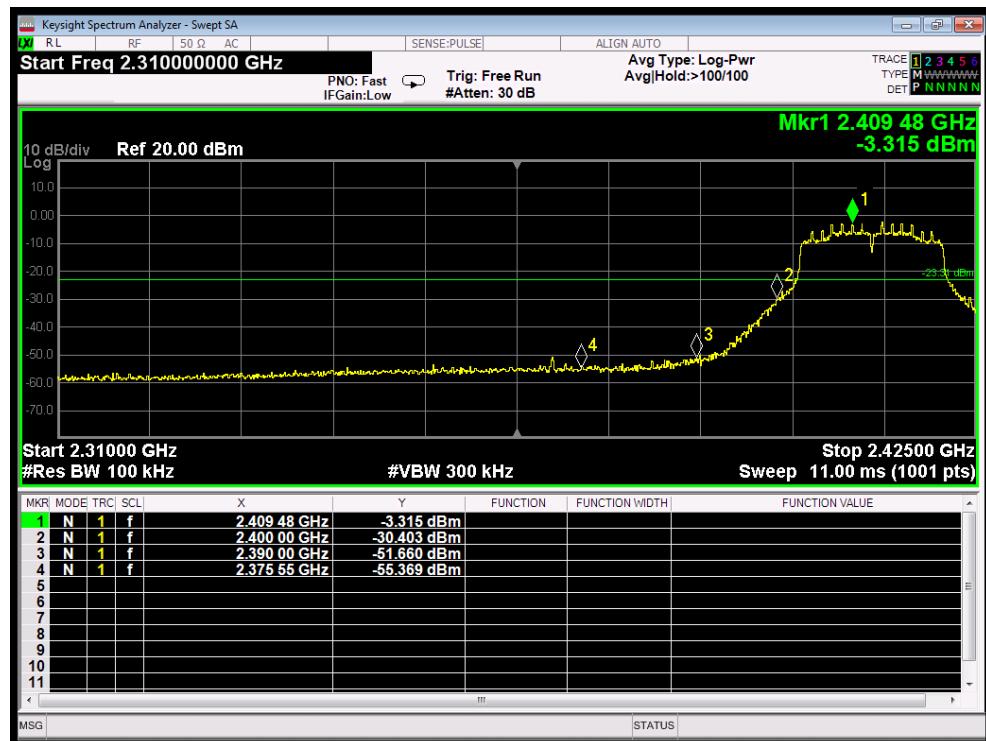
802.11b mode : Highest



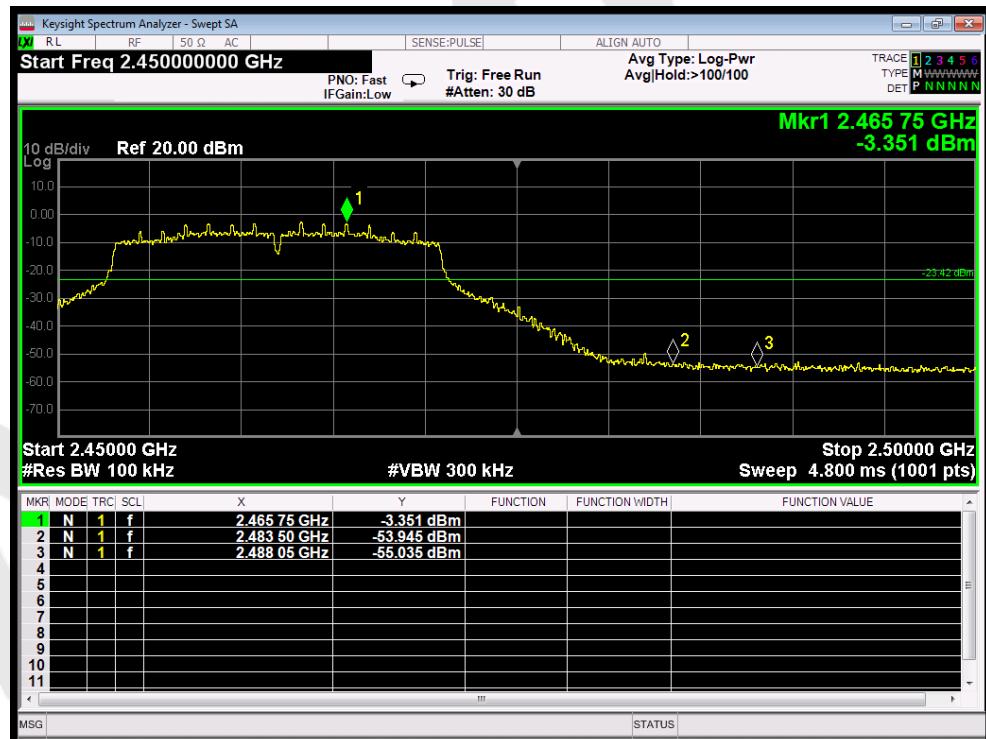
802.11g mode : Lowest



802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Highest

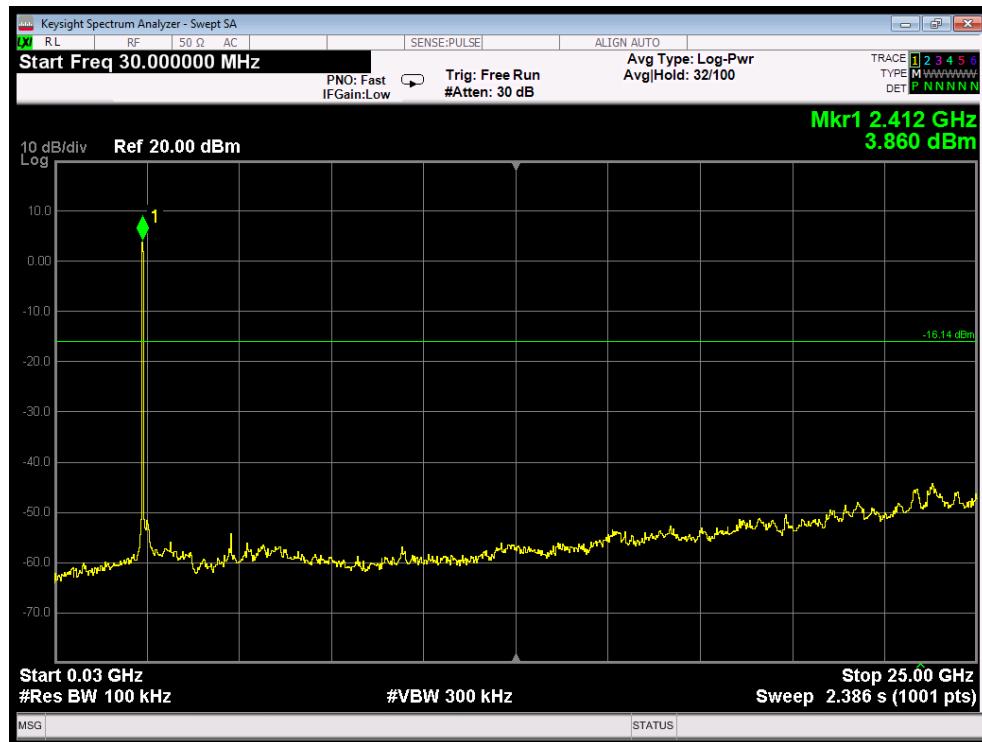


802.11n40 mode : Lowest

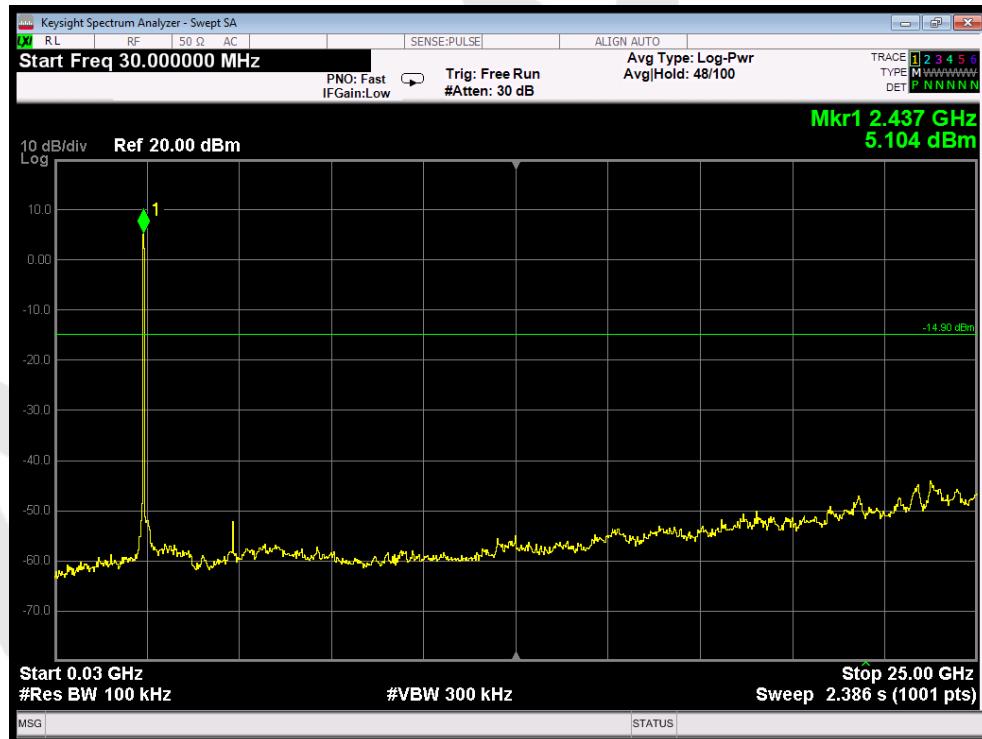


802.11n40 mode : Highest

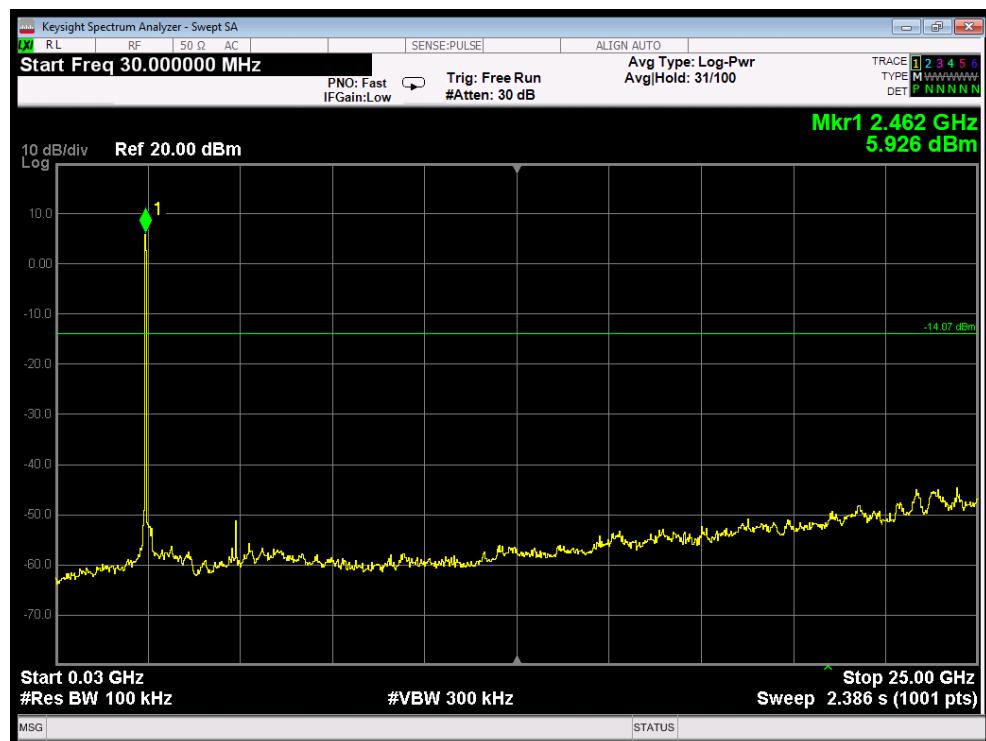
Conducted Emission Method



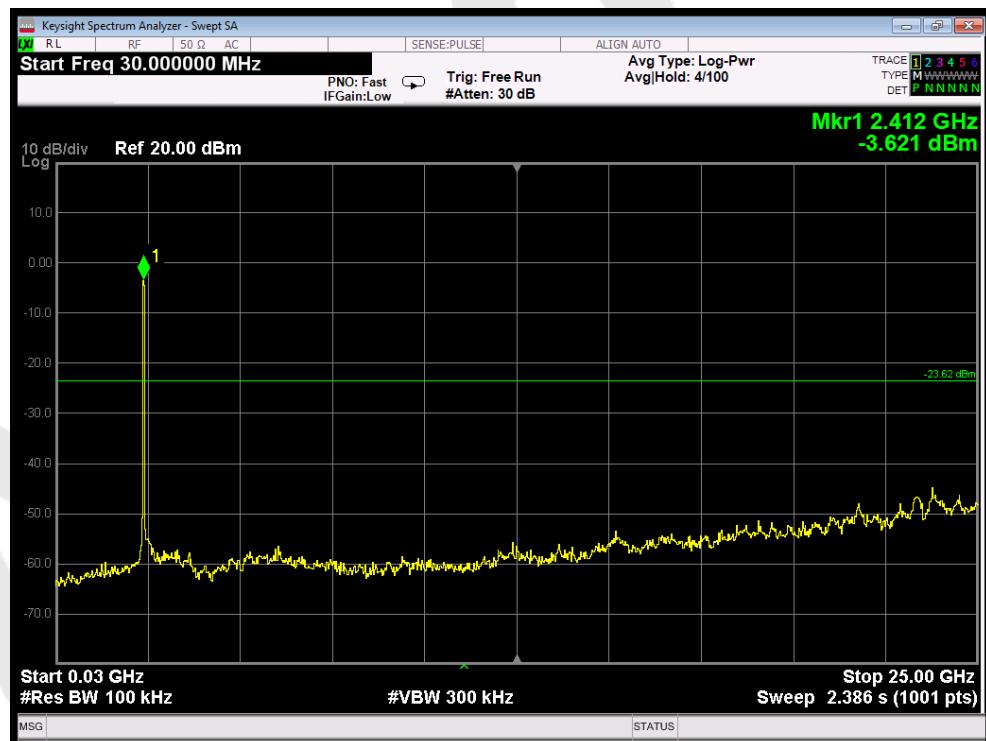
802.11b mode : Lowest



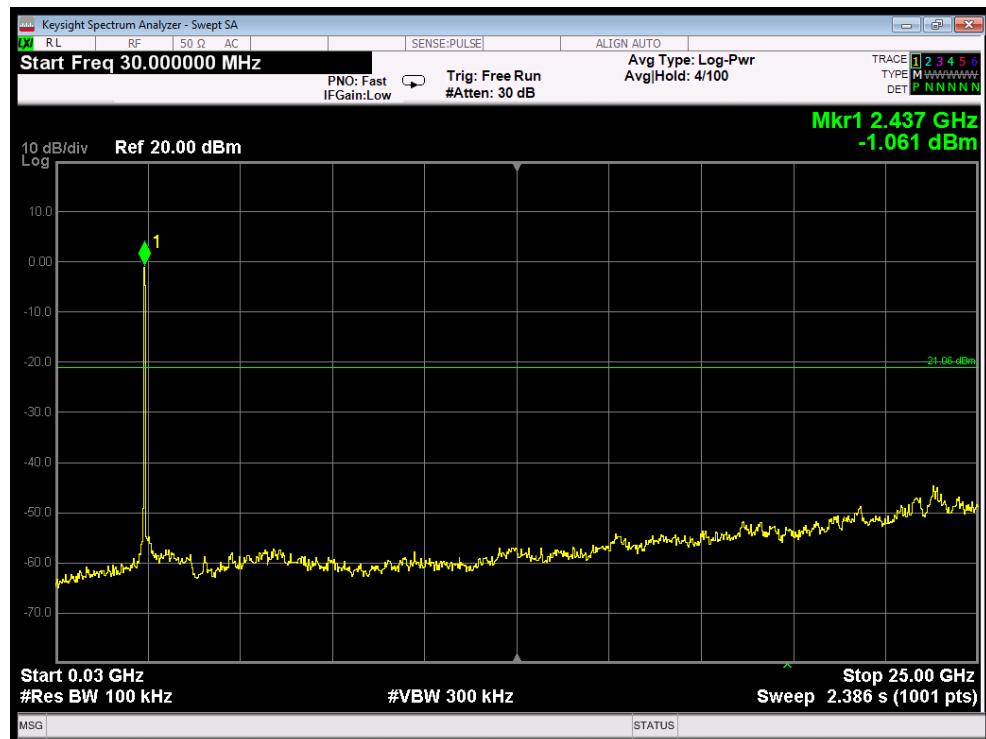
802.11b mode : Middle



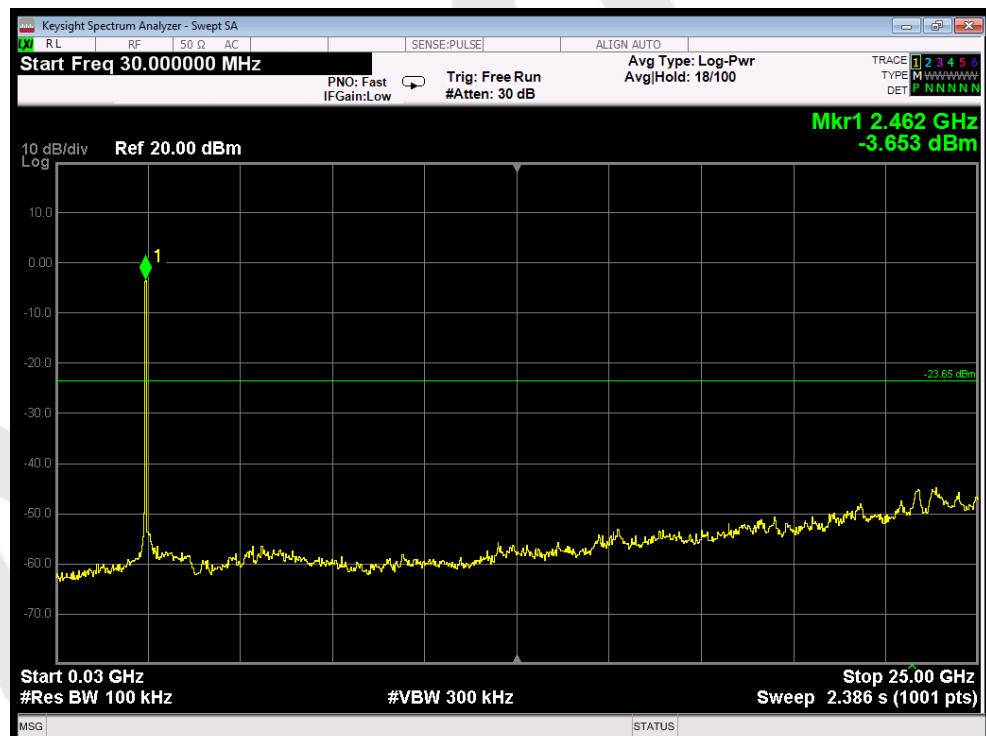
802.11b mode : Highest



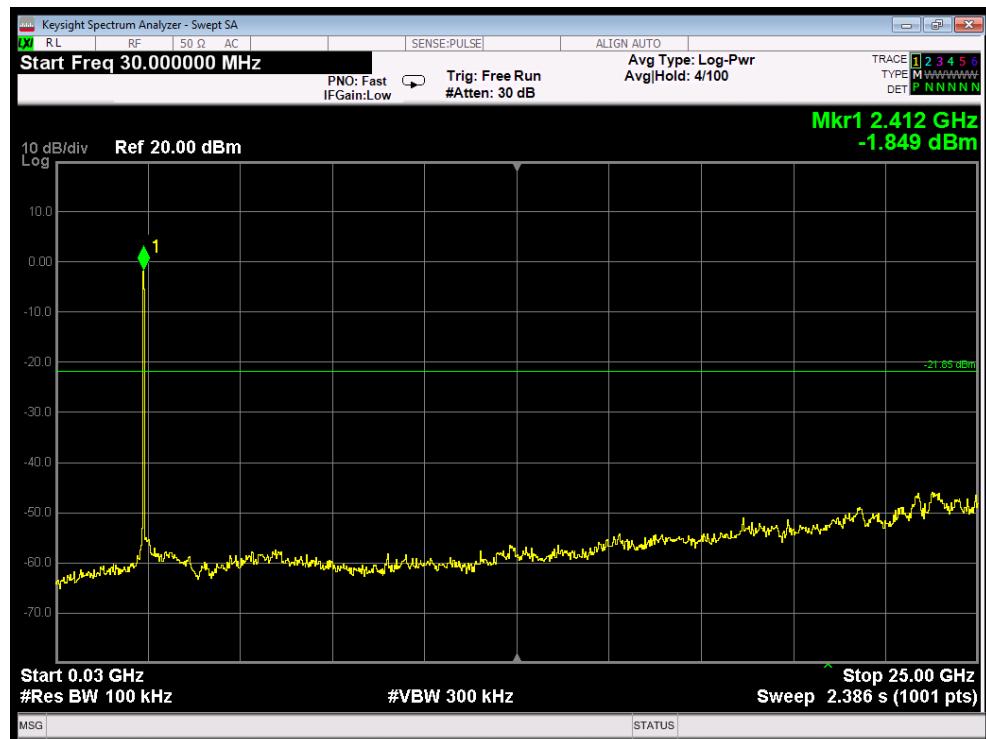
802.11g mode : Lowest



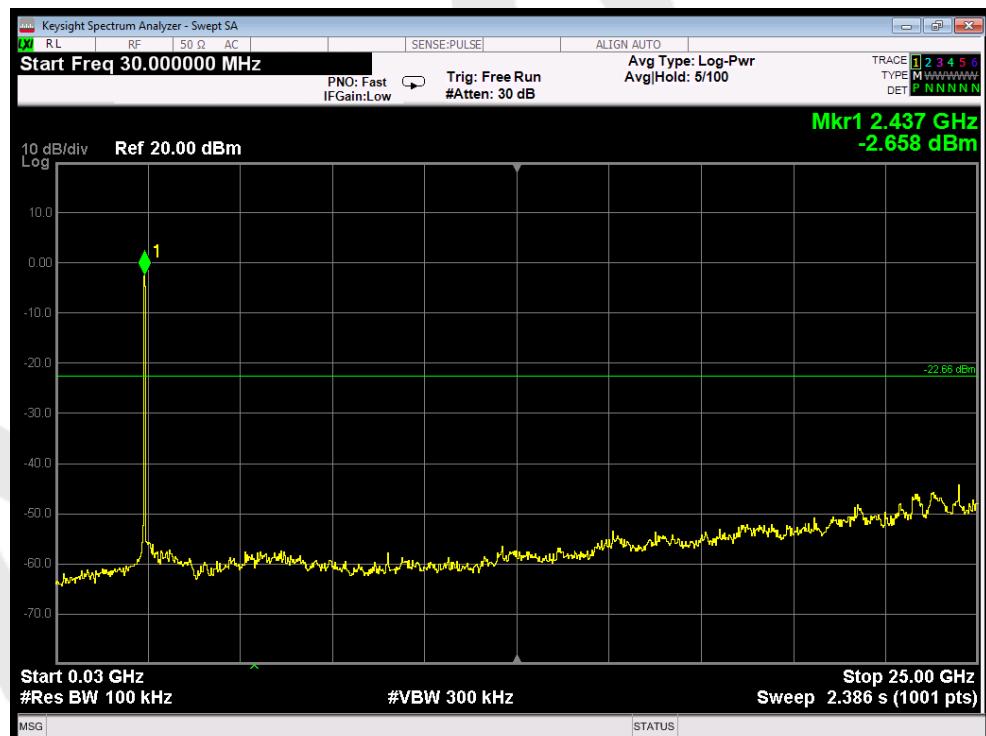
802.11g mode : Middle



802.11g mode : Highest



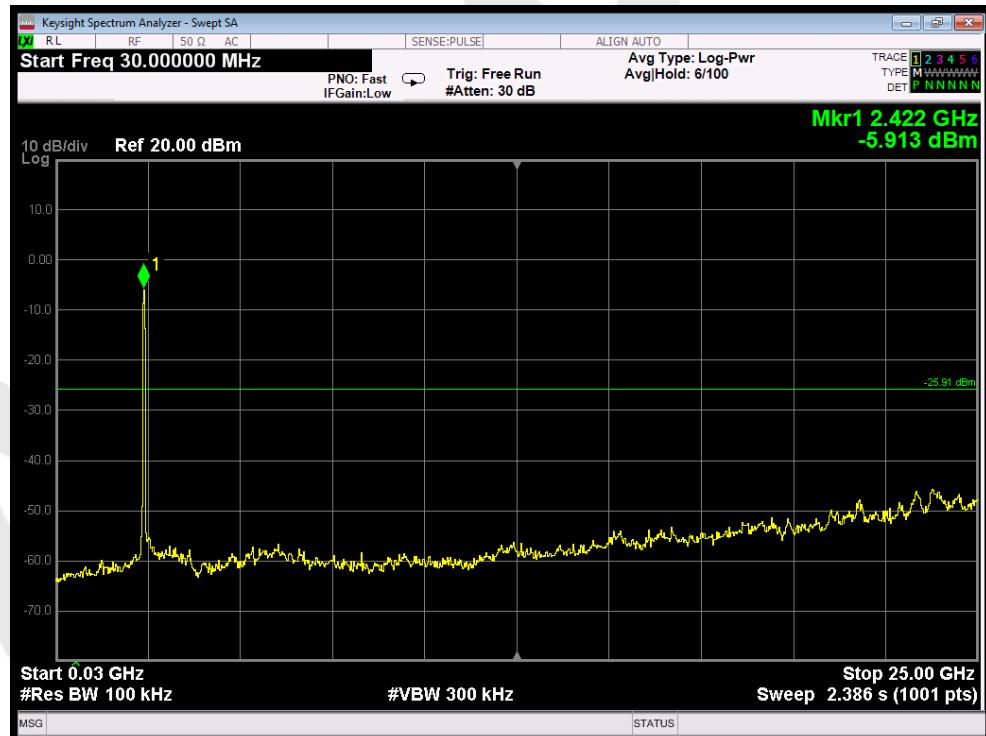
802.11n20 mode : Lowest



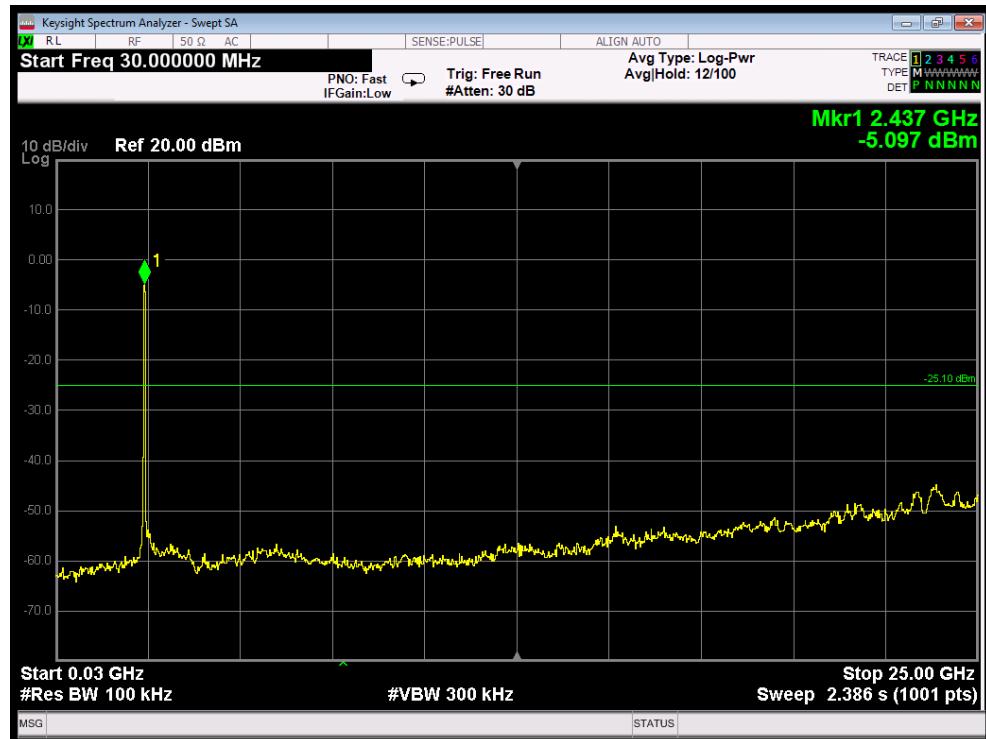
802.11n20 mode : Middle



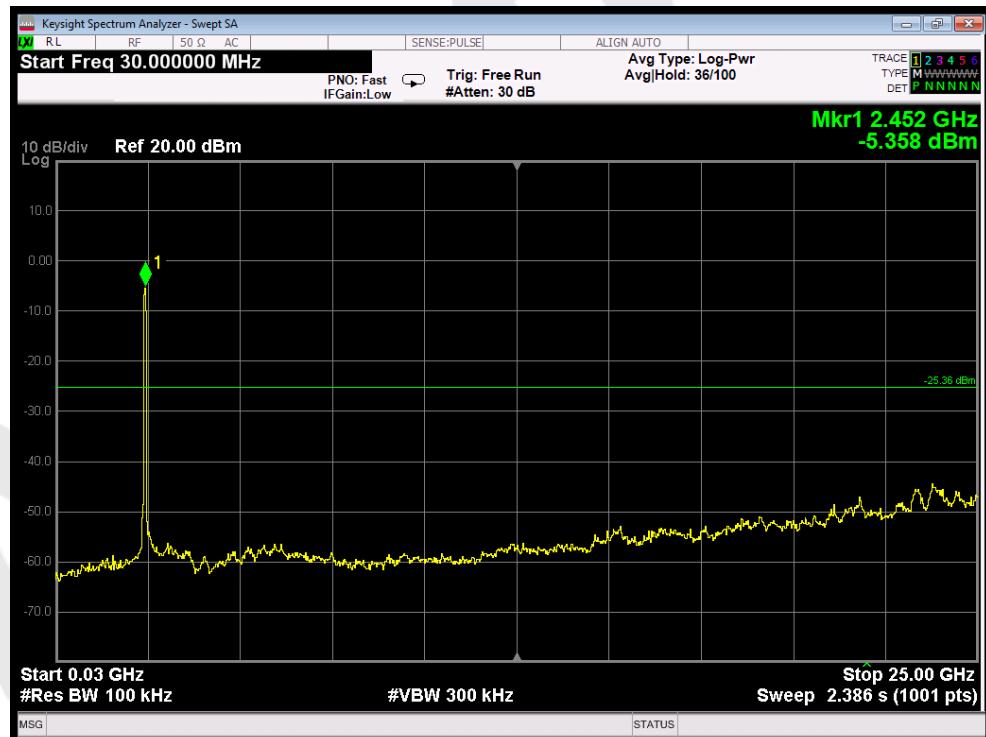
802.11n20 mode : Highest



802.11n40 mode : Lowest



802.11n40 mode : Middle



802.11n40 mode : Highest

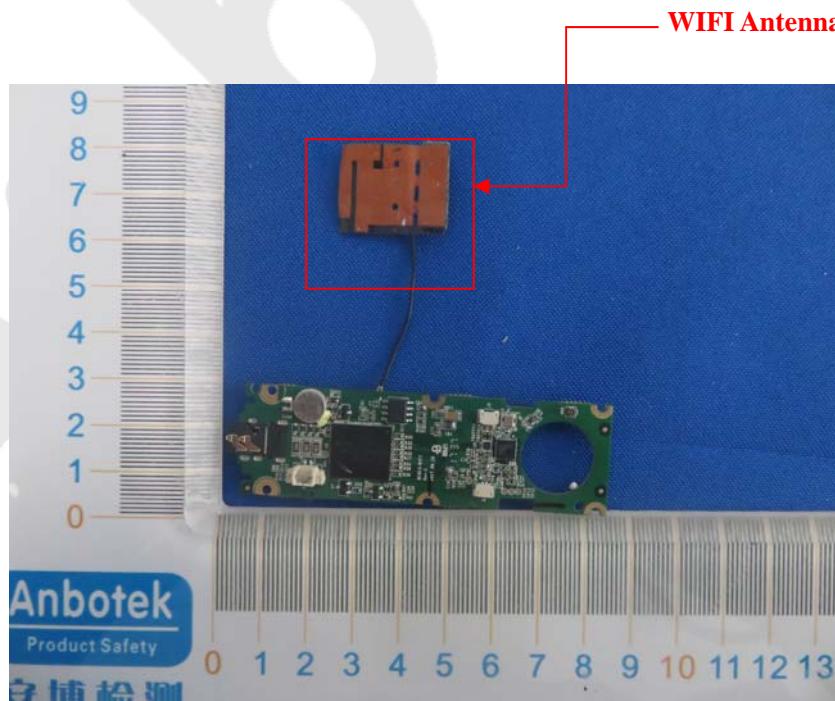
9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	<p>1) 15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

9.2. Antenna Connected Construction

The WIFI antenna is a FPCB Antenna which permanently attached, and the best case gain of the antenna is 0.7 dBi. It complies with the standard requirement.

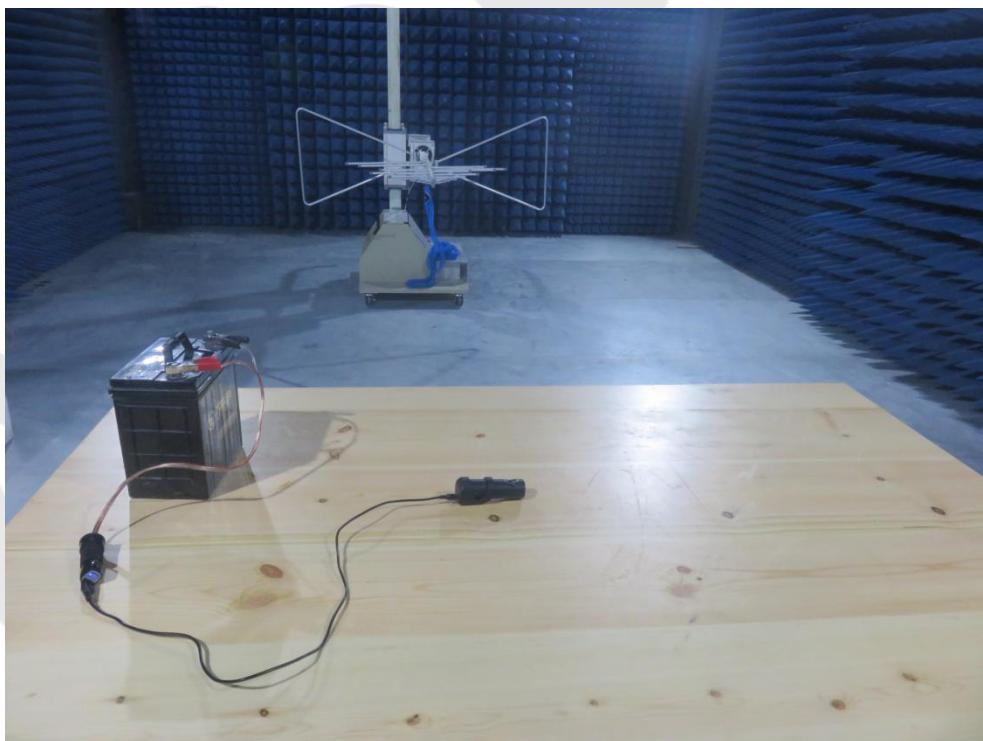


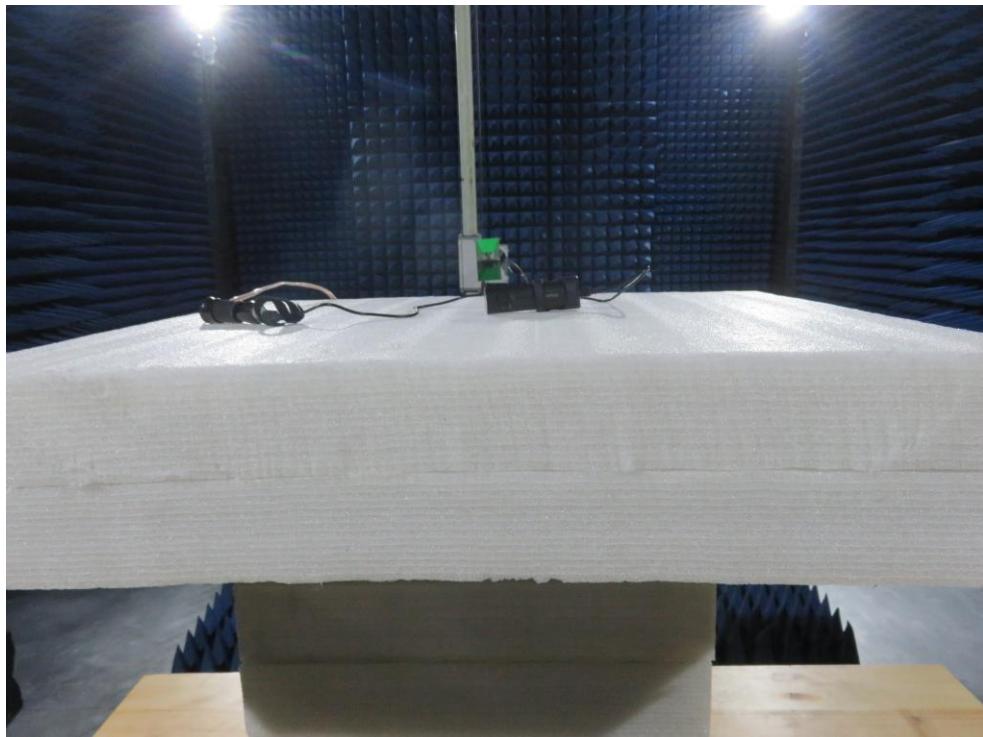
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test

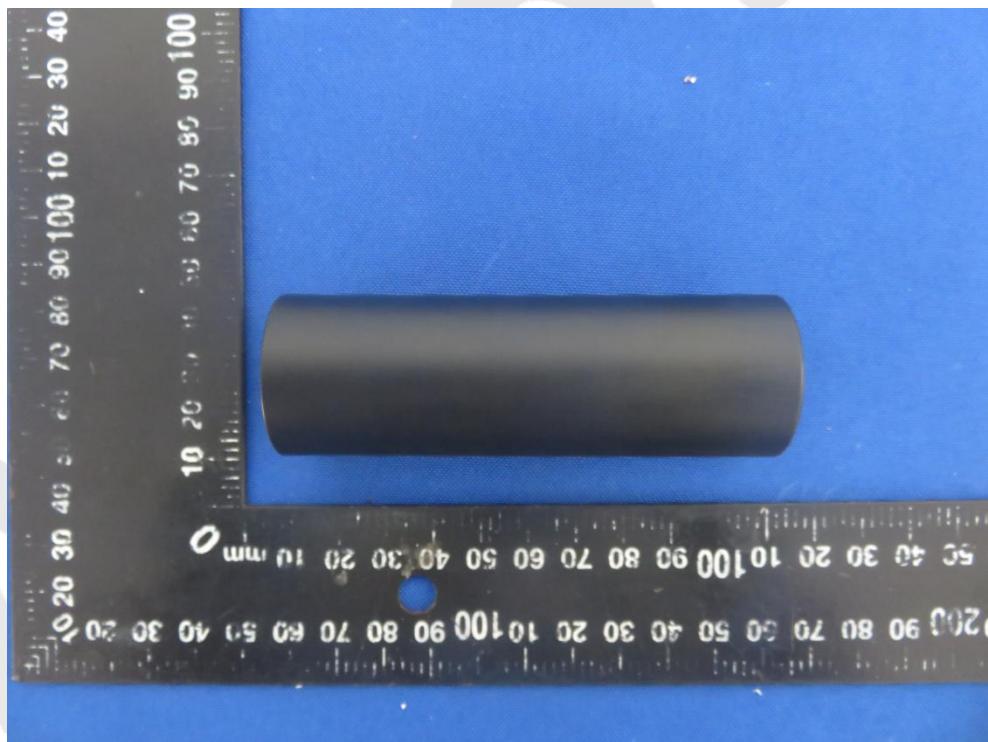


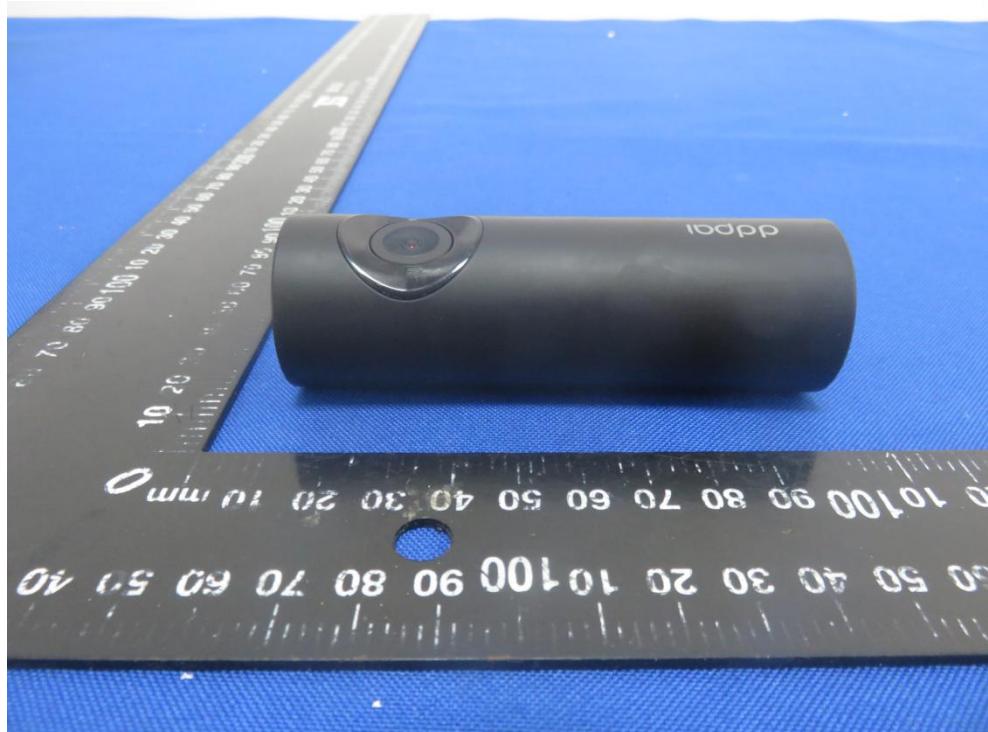


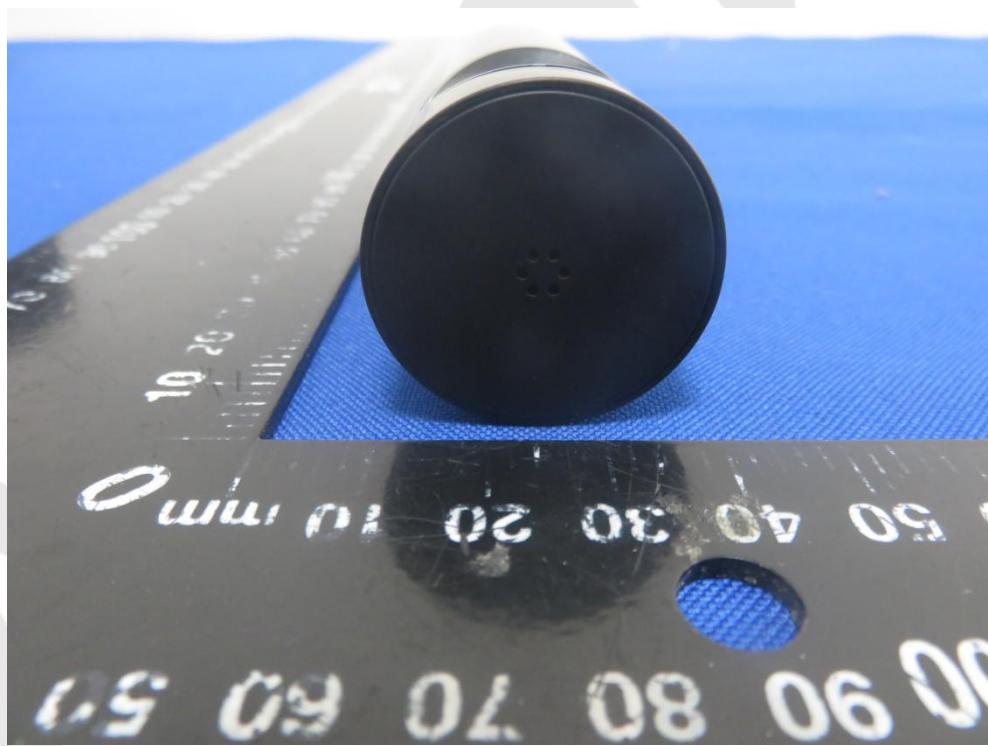
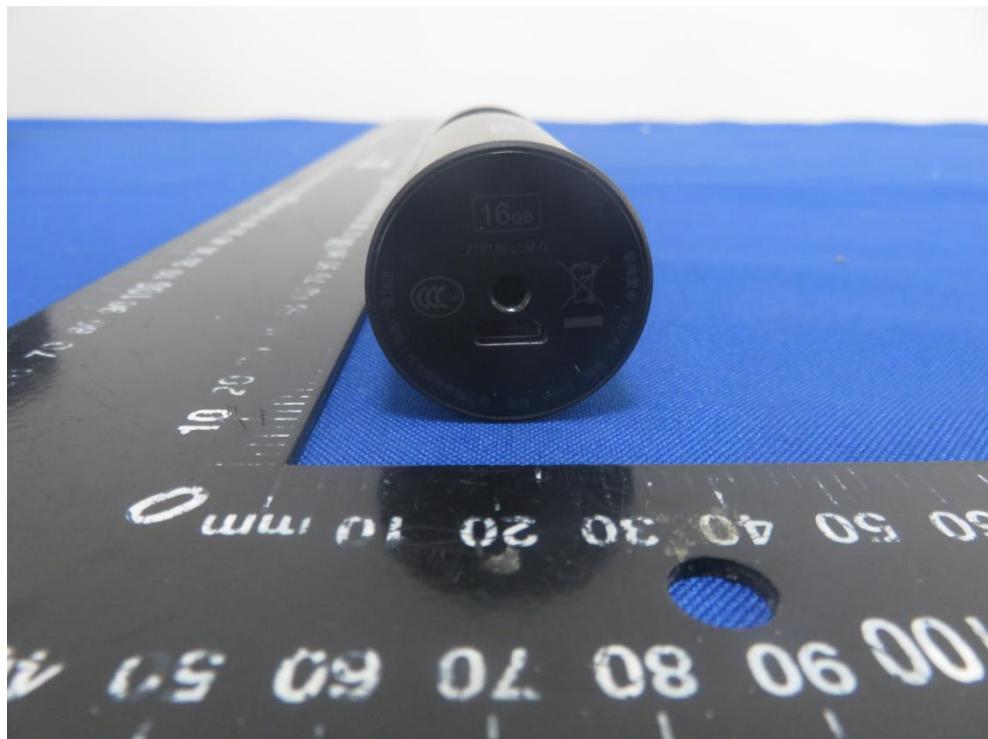
Anbotek

APPENDIX II -- EXTERNAL PHOTOGRAPH









APPENDIX III -- INTERNAL PHOTOGRAPH

