FCC TEST REPORT

Client Name	:	HUDWAY LLC
Address	:	21020 Pacific City Circle #2103 Huntington Beach CA, USA, 92648
Product Name	:	HUDWAY DRIVE
Date	:	Apr. 02, 2021

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
www.anbotek.com

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TEST REPORT

Applicant	:	HUDWAY LLC
Manufacturer	:	HUDWAY LLC
Product Name	:	HUDWAY DRIVE
Model No.	:	HD - 0419-001
Trade Mark	:	HUDWAY
Rating(s)	:	Input: DC 5-17V (1.5A)
Test Standard(s)	**:**	**FCC Part15 Subpart C, Section 15.247**
Test Method(s)	**:**	**ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05r02**

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 Receipt	Dec. 31, 2020
Date of Test	Dec. 31, 2020~Mar.15, 2021
Prepared by	Yilia Zhong (Engineer / Yilia Zhong)
Reviewer	Bibo Zhang (Supervisor / Bibo Zhang)
Approved & Authorized Signer	Kingkong Jin (Manager / Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	HUDWAY LLC
Address	:	21020 Pacific City Circle #2103 Huntington Beach CA, USA, 92648
Manufacturer	:	HUDWAY LLC
Address	:	21020 Pacific City Circle #2103 Huntington Beach CA, USA, 92648
Factory	:	H & W International Electronics (HK) Limited
Address	:	43 Building, Cuigang Industrial 5 Area, Fuyong Town, Bao'an District, SZ 518125 China

1.2. Description of Device (EUT)

Product Name	:	HUDWAY DRIVE	
Model No.	:	HD – 0419-001	
Trade Mark	:	HUDWAY	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	WiFi 2.4G: 802.11b/ g/ n(HT20) 2412-2462MHz BLE 1: 2402-2480MHz BLE 2: 2402-2480MHz WiFi 5.1G: 5180MHz~5240MHz
		Number of Channel:	WiFi 2.4G: 11 Channels for 802.11b/ g/ n(HT20) BLE 1: 40 Channels BLE 2: 40 Channels WiFi 5.1G: 4 Channels for 802.11a 4 Channels for 802.11n(HT20) 4 Channels for 802.11ac(HT20) 2 Channels for 802.11n(HT40) 2 Channels for 802.11ac(HT40) 1 Channels for 802.11ac(HT80)
		Modulation Type:	WiFi 2.4G: 802.11b CCK; 802.11g/n OFDM BLE 1: GFSK BLE 2: GFSK WiFi 5.1G: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
		Antenna Type:	Ceramic Antenna

		Antenna Gain(Peak):	WiFi 2.4G: 2 dBi BLE 1: 4.67 dBi BLE 2: 4.67 dBi WiFi 5.1G: 2 dBi
Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.2)This report is for Wifi 2.4G module.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: A2023 Input: AC 100-240V 0.7A 50-60Hz USB1 Output: DC 5V 2.4A USB1 Output: DC 5V 2.4A

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)
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

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

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

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

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, 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

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.

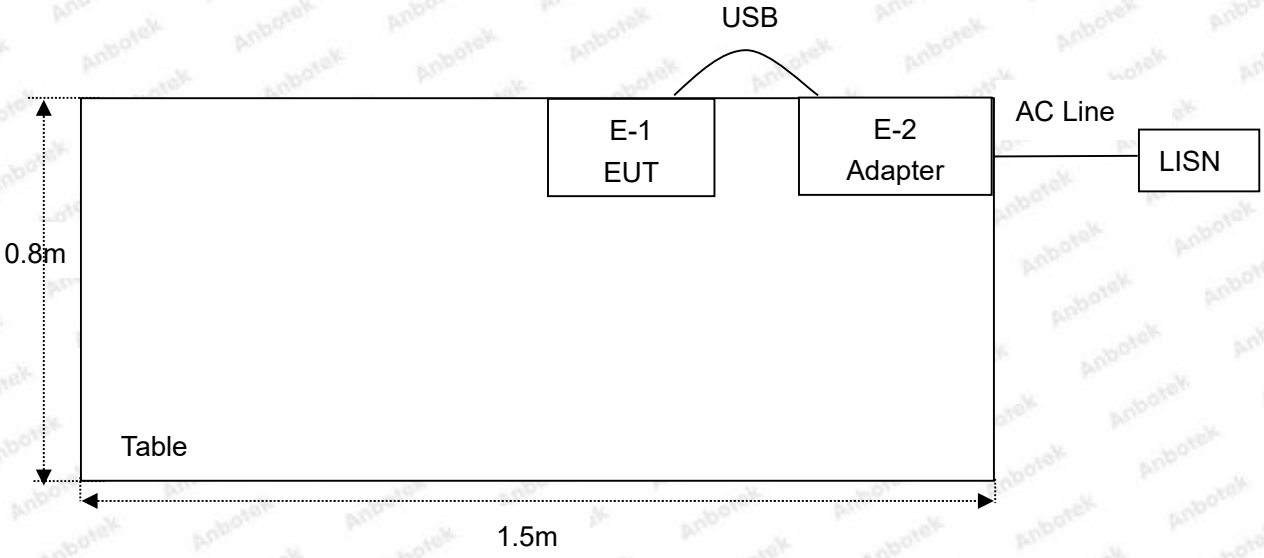
Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	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		

1.6. Description Of Test Setup

CE



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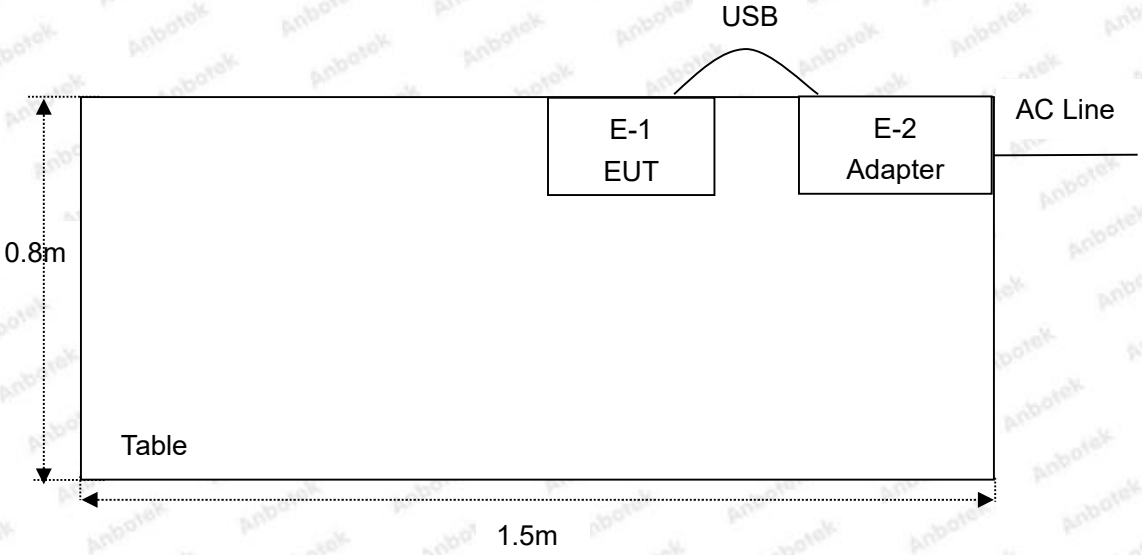


1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 26, 2020	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

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 registed 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, September 30, 2020.

ISED-Registration No.: 8058A

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, September 30, 2020.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

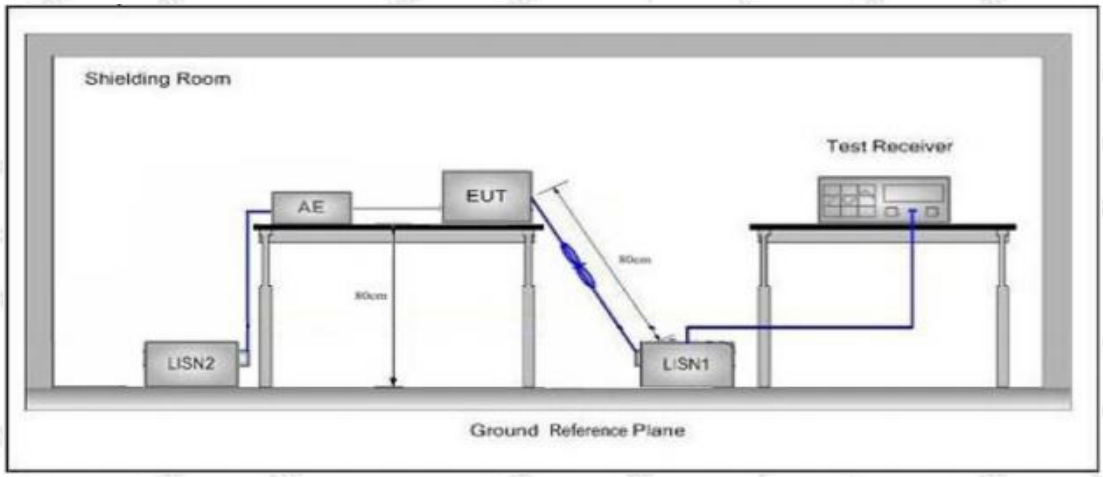
Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: “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.

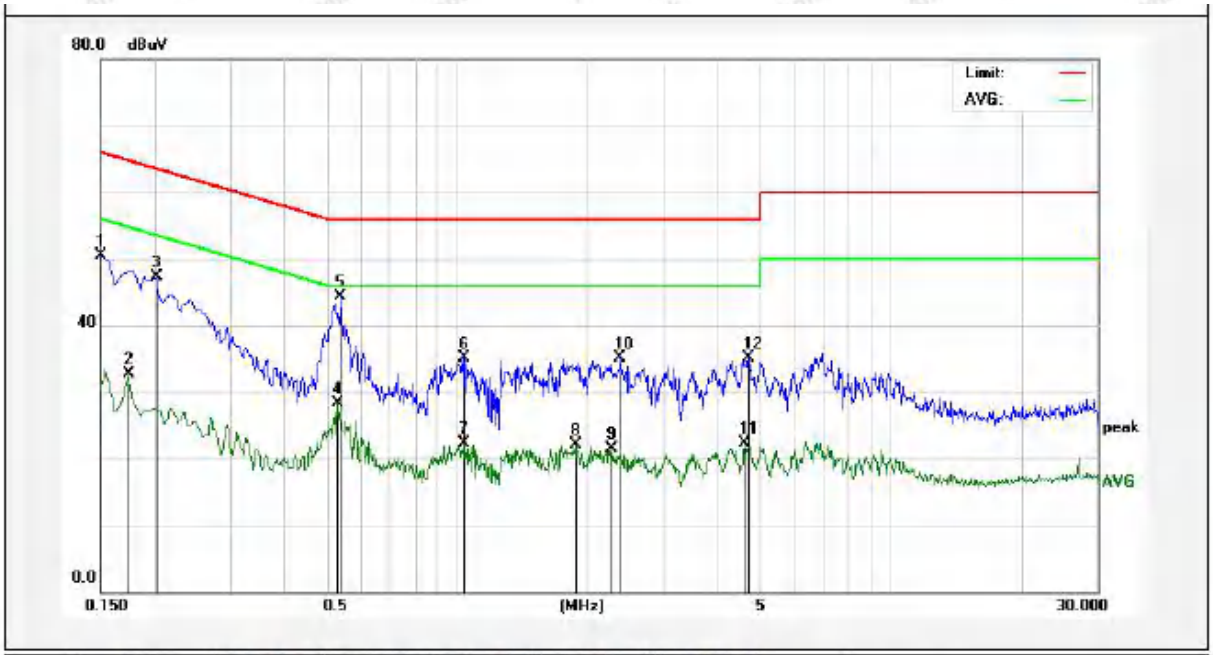
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11n HT20 CH01 which is the worst case, only the worst case is recorded in the report.

Conducted Emission Test Data

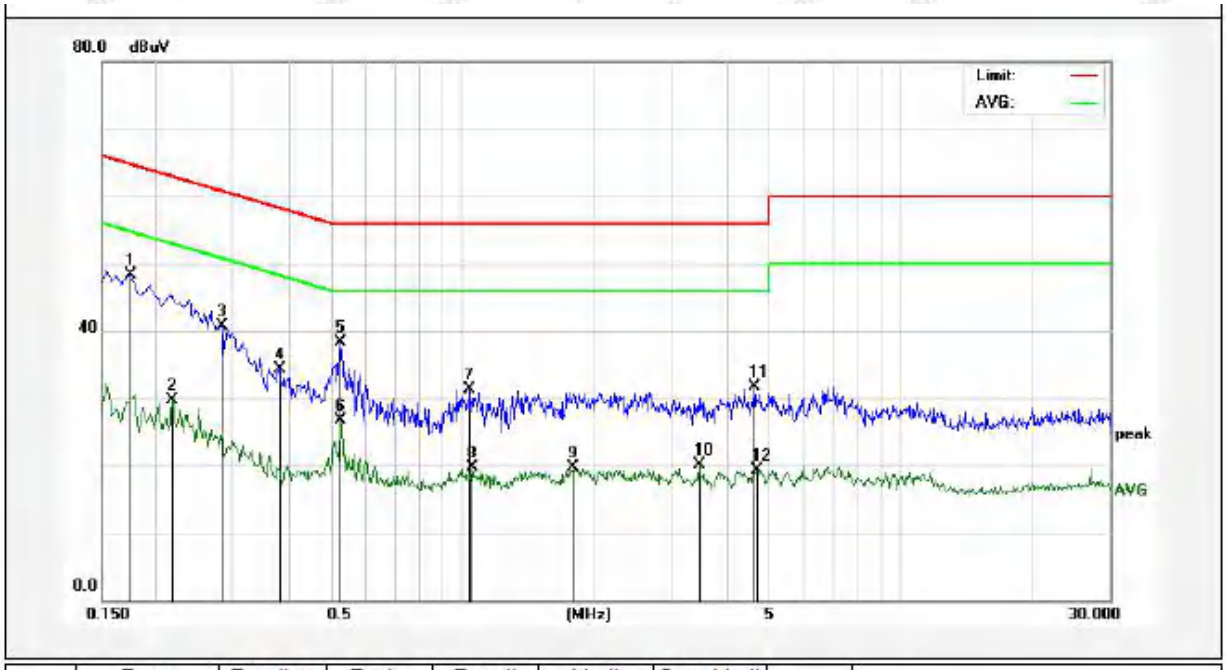
Test Site:	1# Shielded Room
Operating Condition:	802.11n HT20 CH01
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
	Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	30.53	19.90	50.43	66.00	-15.57	QP	
2	0.1740	12.82	19.90	32.72	54.76	-22.04	AVG	
3	0.2020	27.48	19.90	47.38	63.52	-16.14	QP	
4	0.5299	8.36	19.99	28.35	46.00	-17.65	AVG	
5	0.5380	24.29	19.99	44.28	56.00	-11.72	QP	
6	1.0420	15.04	20.12	35.16	56.00	-20.84	QP	
7	1.0420	2.16	20.12	22.28	46.00	-23.72	AVG	
8	1.8820	1.87	20.14	22.01	46.00	-23.99	AVG	
9	2.2620	1.45	20.15	21.60	46.00	-24.40	AVG	
10	2.3740	15.00	20.15	35.15	56.00	-20.85	QP	
11	4.6219	2.11	20.20	22.31	46.00	-23.69	AVG	
12	4.7059	14.87	20.20	35.07	56.00	-20.93	QP	

Conducted Emission Test Data

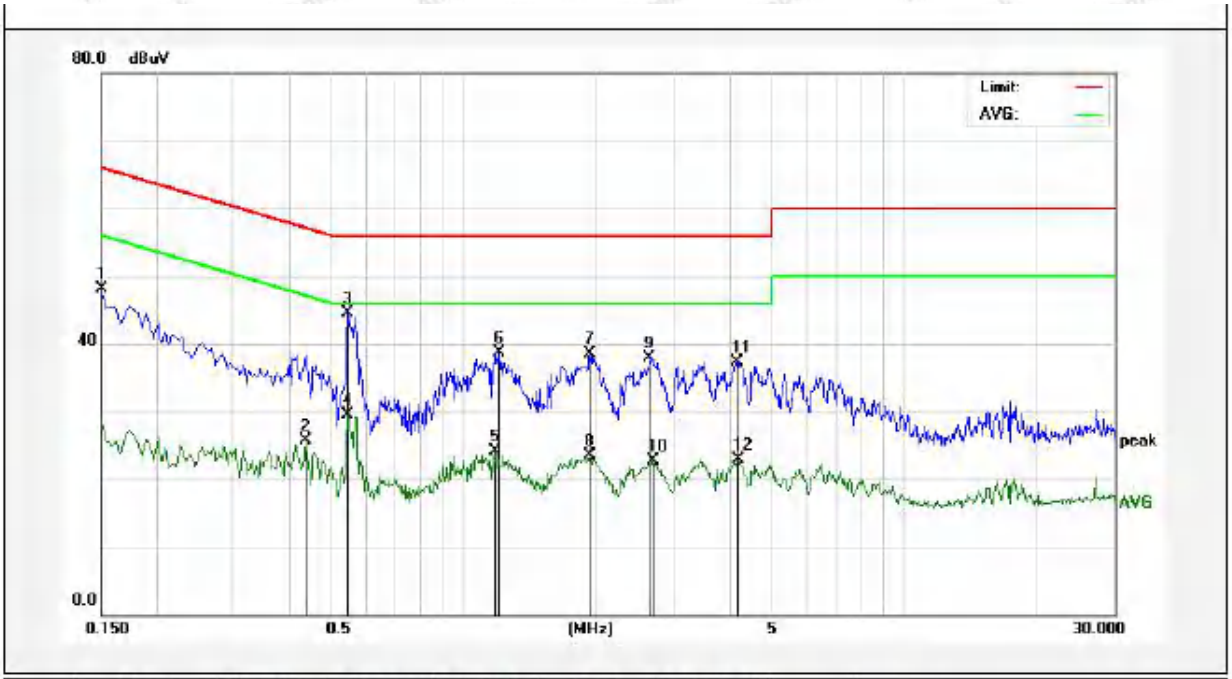
Test Site:	1# Shielded Room
Operating Condition:	802.11n HT20 CH01
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Neutral Line
	Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1740	28.50	19.90	48.40	64.76	-16.36	QP	
2	0.2180	9.84	19.90	29.74	52.89	-23.15	AVG	
3	0.2819	20.76	19.89	40.65	60.76	-20.11	QP	
4	0.3820	14.40	19.93	34.33	58.23	-23.90	QP	
5	0.5260	18.25	19.99	38.24	56.00	-17.76	QP	
6	0.5260	6.77	19.99	26.76	46.00	-19.24	AVG	
7	1.0420	11.21	20.12	31.33	56.00	-24.67	QP	
8	1.0500	-0.48	20.12	19.64	46.00	-26.36	AVG	
9	1.7820	-0.51	20.14	19.63	46.00	-26.37	AVG	
10	3.4540	-0.15	20.17	20.02	46.00	-25.98	AVG	
11	4.6379	11.58	20.20	31.78	56.00	-24.22	QP	
12	4.7099	-0.88	20.20	19.32	46.00	-26.68	AVG	

Conducted Emission Test Data

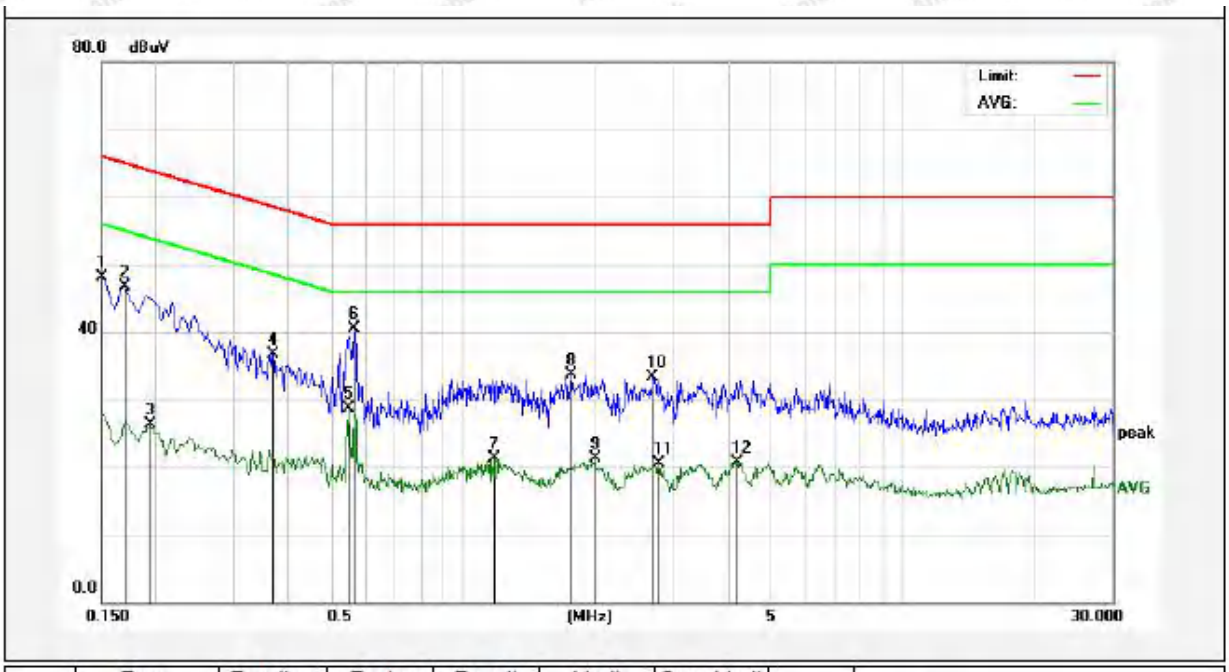
Test Site:	1# Shielded Room
Operating Condition:	802.11n HT20 CH01
Test Specification:	AC 240V, 60Hz for adapter
Comment:	Live Line
	Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	28.18	19.90	48.08	65.99	-17.91	QP	
2	0.4380	5.74	19.95	25.69	47.10	-21.41	AVG	
3	0.5460	24.51	19.99	44.50	56.00	-11.50	QP	
4	0.5460	9.56	19.99	29.55	46.00	-16.45	AVG	
5	1.1820	3.90	20.12	24.02	46.00	-21.98	AVG	
6	1.2059	18.67	20.12	38.79	56.00	-17.21	QP	
7	1.9340	18.36	20.14	38.50	56.00	-17.50	QP	
8	1.9340	3.34	20.14	23.48	46.00	-22.52	AVG	
9	2.6460	17.69	20.15	37.84	56.00	-18.16	QP	
10	2.6860	2.54	20.15	22.69	46.00	-23.31	AVG	
11	4.1779	17.11	20.18	37.29	56.00	-18.71	QP	
12	4.1979	2.65	20.19	22.84	46.00	-23.16	AVG	

Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	802.11n HT20 CH01
Test Specification:	AC 240V, 60Hz for adapter
Comment:	Neutral Line
	Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	28.24	19.90	48.14	66.00	-17.86	QP	
2	0.1700	26.80	19.90	46.70	64.96	-18.26	QP	
3	0.1940	6.43	19.90	26.33	53.86	-27.53	AVG	
4	0.3700	16.82	19.92	36.74	58.50	-21.76	QP	
5	0.5500	8.74	19.99	28.73	46.00	-17.27	AVG	
6	0.5660	20.42	20.00	40.42	56.00	-15.58	QP	
7	1.1740	1.21	20.12	21.33	46.00	-24.67	AVG	
8	1.7620	13.60	20.14	33.74	56.00	-22.26	QP	
9	1.9940	1.14	20.14	21.28	46.00	-24.72	AVG	
10	2.6980	13.19	20.15	33.34	56.00	-22.66	QP	
11	2.7940	0.44	20.16	20.60	46.00	-25.40	AVG	
12	4.1859	0.62	20.18	20.80	46.00	-25.20	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
	Above 1000MHz	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

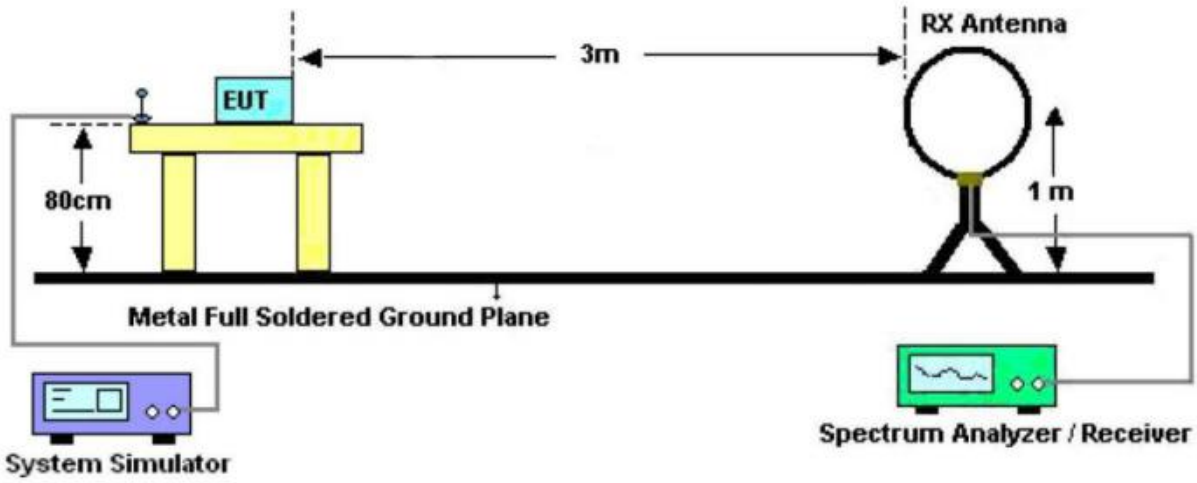


Figure 1. Below 30MHz

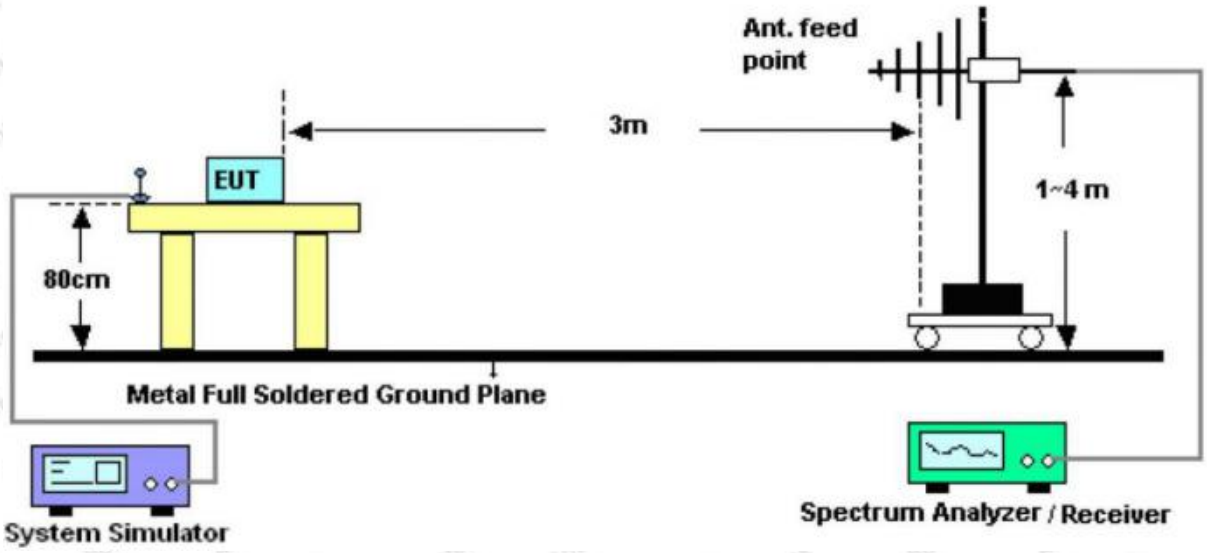


Figure 2. 30MHz to 1GHz

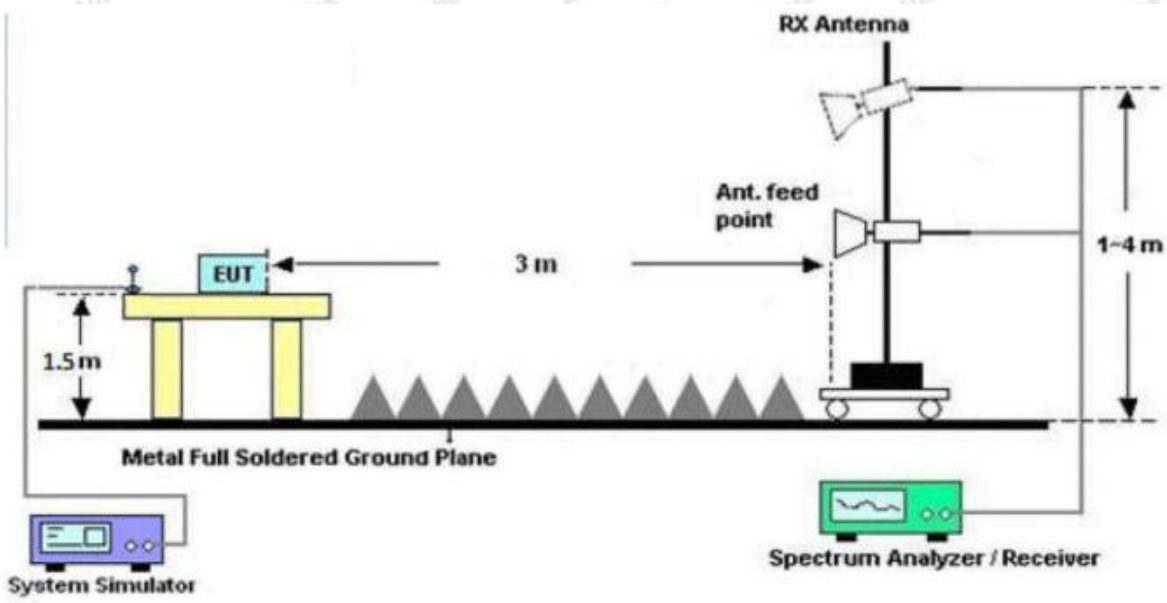


Figure 3. Above 1 GHz

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.

During the test, pre-scan all modes, and found the 802.11n HT10 CH01 which is the worst case, only the worst case is recorded in the report.

Test Results (30~1000MHz)

Test Mode: 802.11n HT20 CH01

Polarization: Horizontal

Temp.(℃)/Hum.(%RH): 23.7℃/51%RH

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	44.82	-18.95	25.87	40.00	-14.13	QP	100	137	
2	76.5121	44.63	-23.72	20.91	40.00	-19.09	QP	100	136	
3	167.8243	58.31	-21.79	36.52	43.50	-6.98	QP	100	179	
4	186.4409	58.56	-21.79	36.77	43.50	-6.73	QP	100	123	
5	300.3672	48.66	-18.51	30.15	46.00	-15.85	QP	100	164	
6	360.4476	45.49	-14.76	30.73	46.00	-15.27	QP	100	352	

Test Results (30~1000MHz)

Test Mode: 802.11n HT20 CH01

Polarization: Vertical

Temp.(℃)/Hum.(%RH): 23.7℃/51%RH

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.3992	46.80	-17.94	28.86	40.00	-11.14	QP	100	230	
2	75.9773	53.66	-22.21	31.45	40.00	-8.55	QP	100	312	
3	81.2117	54.25	-21.20	33.05	40.00	-6.95	QP	100	123	
4	168.4138	53.79	-18.56	35.23	43.50	-8.27	QP	100	152	
5	180.0165	51.61	-17.76	33.85	43.50	-9.65	QP	100	146	
6	190.4050	48.40	-16.80	31.60	43.50	-11.90	QP	100	191	

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 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	37.89	34.13	6.61	34.09	44.54	74.00	-29.46	V
7236.00	32.70	37.14	7.74	34.51	43.07	74.00	-30.93	V
9648.00	31.63	39.35	9.26	34.80	45.44	74.00	-28.56	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4824.00	36.93	34.13	6.61	34.09	43.58	74.00	-30.42	H
7236.00	32.64	37.14	7.74	34.51	43.01	74.00	-30.99	H
9648.00	31.29	39.35	9.26	34.80	45.10	74.00	-28.90	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	27.16	34.13	6.61	34.09	33.81	54.00	-20.19	V
7236.00	21.62	37.14	7.74	34.51	31.99	54.00	-22.01	V
9648.00	22.02	39.35	9.26	34.80	35.83	54.00	-18.17	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4824.00	26.59	34.13	6.61	34.09	33.24	54.00	-20.76	H
7236.00	21.26	37.14	7.74	34.51	31.63	54.00	-22.37	H
9648.00	21.07	39.35	9.26	34.80	34.88	54.00	-19.12	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
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Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 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	37.36	34.13	6.61	34.09	44.01	74.00	-29.99	V
7311.00	33.03	37.14	7.74	34.51	43.40	74.00	-30.60	V
9748.00	32.83	39.35	9.26	34.80	46.64	74.00	-27.36	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	38.15	34.13	6.61	34.09	44.80	74.00	-29.20	H
7311.00	31.83	37.14	7.74	34.51	42.20	74.00	-31.80	H
9748.00	32.79	39.35	9.26	34.80	46.60	74.00	-27.40	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	28.37	34.13	6.61	34.09	35.02	54.00	-18.98	V
7311.00	21.39	37.14	7.74	34.51	31.76	54.00	-22.24	V
9748.00	22.12	39.35	9.26	34.80	35.93	54.00	-18.07	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	28.36	34.13	6.61	34.09	35.01	54.00	-18.99	H
7311.00	20.95	37.14	7.74	34.51	31.32	54.00	-22.68	H
9748.00	22.54	39.35	9.26	34.80	36.35	54.00	-17.65	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 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	41.45	34.57	6.74	34.09	48.67	74.00	-25.33	V
7386.00	32.80	37.29	7.80	34.55	43.34	74.00	-30.66	V
9848.00	35.48	39.55	9.41	34.81	49.63	74.00	-24.37	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4924.00	41.29	34.57	6.74	34.09	48.51	74.00	-25.49	H
7386.00	31.97	37.29	7.80	34.55	42.51	74.00	-31.49	H
9848.00	31.77	39.55	9.41	34.81	45.92	74.00	-28.08	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	32.63	34.57	6.74	34.09	39.85	54.00	-14.15	V
7386.00	22.79	37.29	7.80	34.55	33.33	54.00	-20.67	V
9848.00	24.04	39.55	9.41	34.81	38.19	54.00	-15.81	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4924.00	31.83	34.57	6.74	34.09	39.05	54.00	-14.95	H
7386.00	21.42	37.29	7.80	34.55	31.96	54.00	-22.04	H
9848.00	21.08	39.55	9.41	34.81	35.23	54.00	-18.77	H
12310.00	*					54.00		H
14772.00	*					54.00		H
17234.00	*					54.00		H

Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20N),n(HT40N) mode, and found the 802.11n HT20 mode is worse case , the report only record this mode.
2. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
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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	51.68	29.15	3.41	34.01	50.23	74.00	-23.77	H
2400.00	60.70	29.16	3.43	34.01	59.28	74.00	-14.72	H
2390.00	53.36	29.15	3.41	34.01	51.91	74.00	-22.09	V
2400.00	62.50	29.16	3.43	34.01	61.08	74.00	-12.92	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	38.43	29.15	3.41	34.01	36.98	54.00	-17.02	H
2400.00	46.73	29.16	3.43	34.01	45.31	54.00	-8.69	H
2390.00	40.25	29.15	3.41	34.01	38.80	54.00	-15.20	V
2400.00	47.85	29.16	3.43	34.01	46.43	54.00	-7.57	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	52.34	29.28	3.53	34.03	51.12	74.00	-22.88	H
2500.00	48.16	29.30	3.56	34.03	46.99	74.00	-27.01	H
2483.50	54.61	29.28	3.53	34.03	53.39	74.00	-20.61	V
2500.00	50.68	29.30	3.56	34.03	49.51	74.00	-24.49	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	38.80	29.28	3.53	34.03	37.58	54.00	-16.42	H
2500.00	34.89	29.30	3.56	34.03	33.72	54.00	-20.28	H
2483.50	40.75	29.28	3.53	34.03	39.53	54.00	-14.47	V
2500.00	36.78	29.30	3.56	34.03	35.61	54.00	-18.39	V

Remark:

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

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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	51.00	27.53	5.47	33.92	50.08	74.00	-23.92	H
2400.00	59.79	27.55	5.49	29.93	62.90	74.00	-11.10	H
2390.00	52.63	27.53	5.47	33.92	51.71	74.00	-22.29	V
2400.00	61.41	27.55	5.49	29.93	64.52	74.00	-9.48	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.
2390.00	37.94	27.53	5.47	33.92	37.02	54.00	-16.98	H
2400.00	46.17	27.55	5.49	29.93	49.28	54.00	-4.72	H
2390.00	39.71	27.53	5.47	33.92	38.79	54.00	-15.21	V
2400.00	47.24	27.55	5.49	29.93	50.35	54.00	-3.65	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	51.37	29.28	3.53	34.03	50.15	74.00	-23.85	H
2500.00	47.41	29.30	3.56	34.03	46.24	74.00	-27.76	H
2483.50	53.50	29.28	3.53	34.03	52.28	74.00	-21.72	V
2500.00	49.80	29.30	3.56	34.03	48.63	74.00	-25.37	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	38.21	29.28	3.53	34.03	36.99	54.00	-17.01	H
2500.00	34.44	29.30	3.56	34.03	33.27	54.00	-20.73	H
2483.50	40.10	29.28	3.53	34.03	38.88	54.00	-15.12	V
2500.00	36.29	29.30	3.56	34.03	35.12	54.00	-18.88	V

Remark:

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

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Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
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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	50.24	27.53	5.47	33.92	49.32	74.00	-24.68	H
2400.00	58.78	27.55	5.49	29.93	61.89	74.00	-12.11	H
2390.00	51.82	27.53	5.47	33.92	50.90	74.00	-23.10	V
2400.00	60.19	27.55	5.49	29.93	63.30	74.00	-10.70	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	37.41	27.53	5.47	33.92	36.49	54.00	-17.51	H
2400.00	45.55	27.55	5.49	29.93	48.66	54.00	-5.34	H
2390.00	39.11	27.53	5.47	33.92	38.19	54.00	-15.81	V
2400.00	46.56	27.55	5.49	29.93	49.67	54.00	-4.33	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	50.29	29.28	3.53	34.03	49.07	74.00	-24.93	H
2500.00	46.57	29.30	3.56	34.03	45.40	74.00	-28.60	H
2483.50	52.26	29.28	3.53	34.03	51.04	74.00	-22.96	V
2500.00	48.81	29.30	3.56	34.03	47.64	74.00	-26.36	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	37.56	29.28	3.53	34.03	36.34	54.00	-17.66	H
2500.00	33.93	29.30	3.56	34.03	32.76	54.00	-21.24	H
2483.50	39.38	29.28	3.53	34.03	38.16	54.00	-15.84	V
2500.00	35.75	29.30	3.56	34.03	34.58	54.00	-19.42	V

Remark:

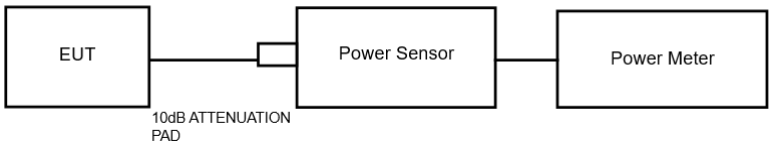
1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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	:	AC 120V, 60Hz for adapter	Temperature	:	23.3℃
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	14.61	30	PASS
CH06	2437	14.44	30	PASS
CH11	2462	14.26	30	PASS
TX 802.11g Mode				
CH01	2412	16.35	30	PASS
CH06	2437	16.16	30	PASS
CH11	2462	16.15	30	PASS
TX 802.11n(20) Mode				
CH01	2412	**16.44**	30	PASS
CH06	2437	15.54	30	PASS
CH11	2462	15.65	30	PASS

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

Please see the plot of next page

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Hotline 400-003-0500
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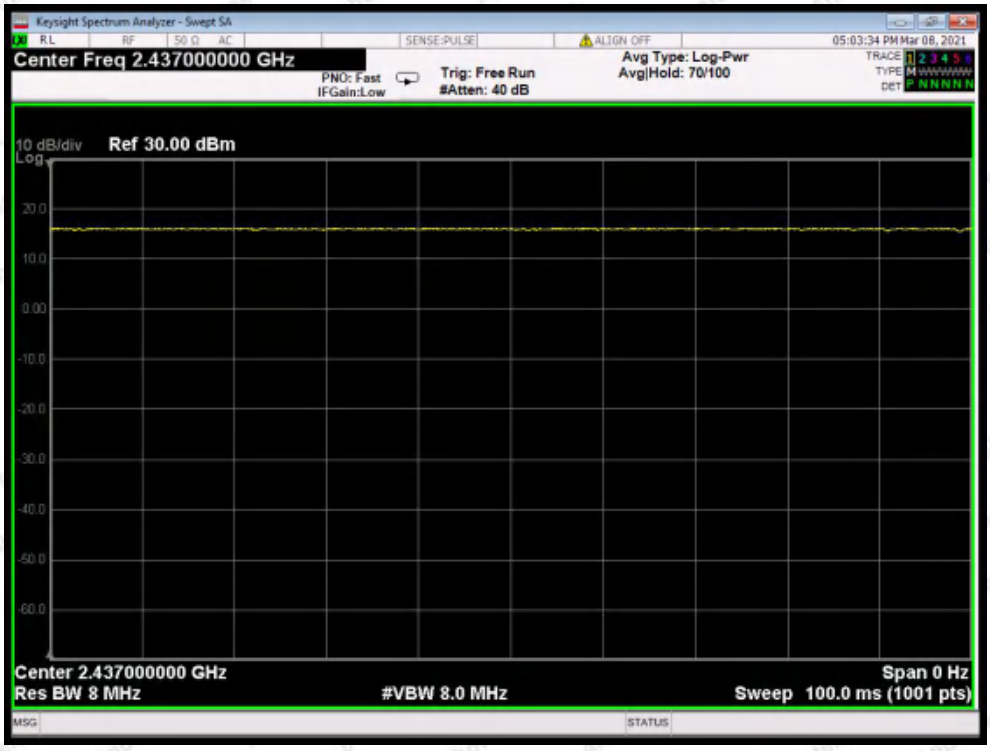
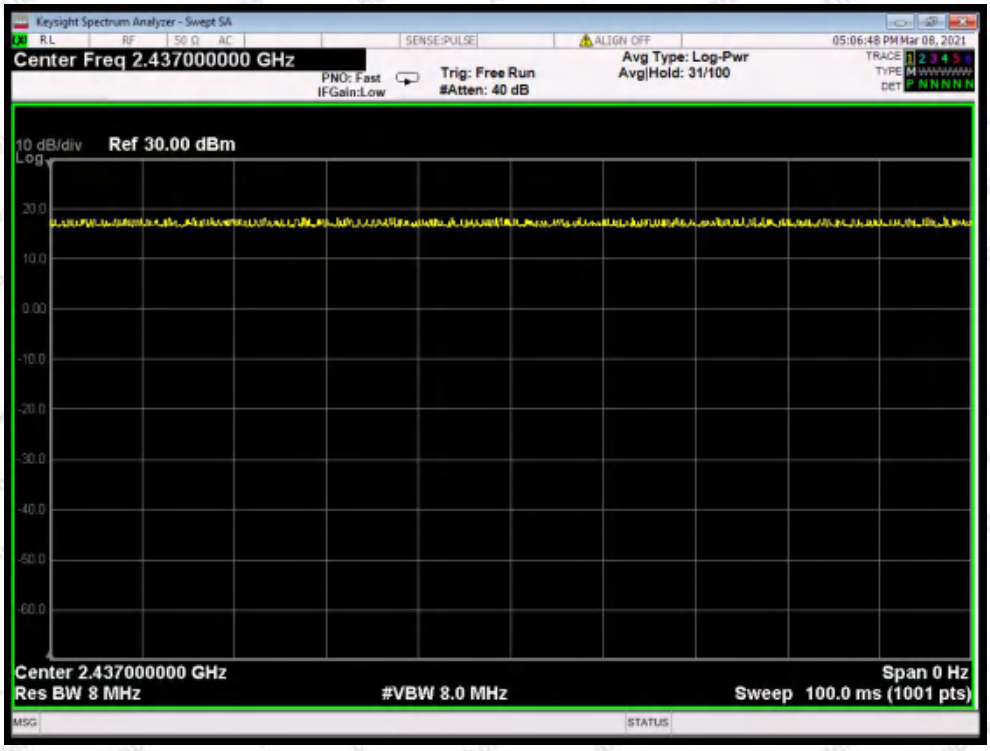
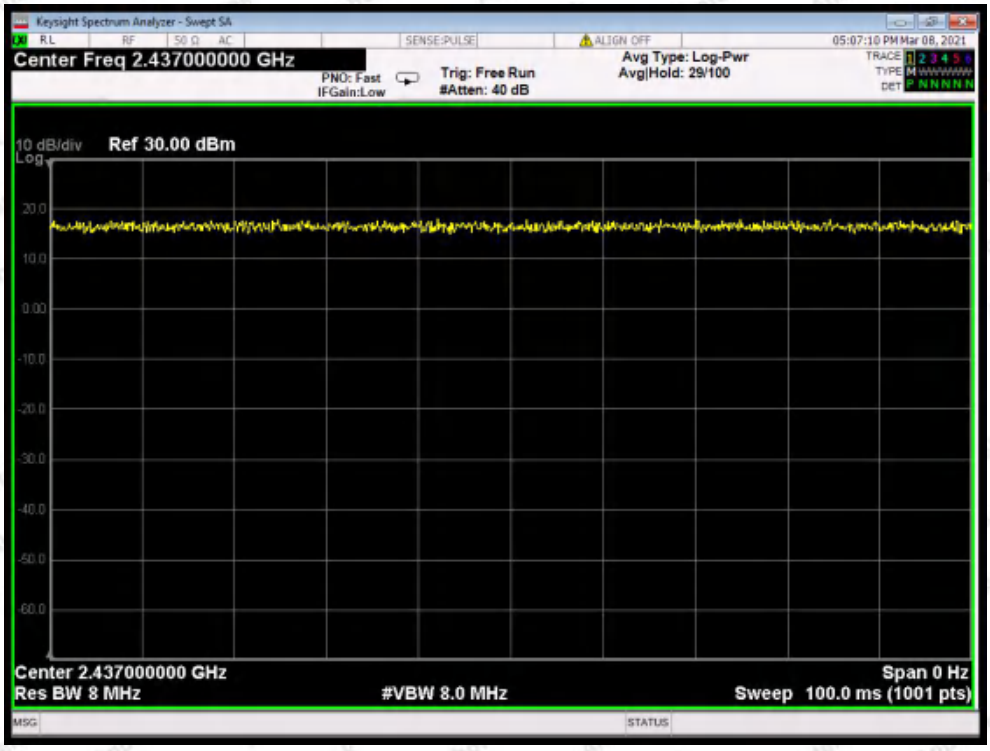
Duty Cycle



802.11b mode



802.11g mode



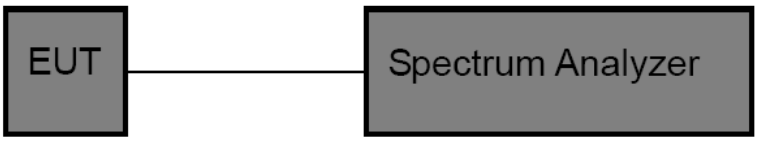
802.11n(HT20) mode

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≥3*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 Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	23.3℃
Test Result	:	PASS	Humidity	:	55%RH

Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
802.11b	Low	2412	8.112	>500	PASS
	Middle	2437	8.112		PASS
	High	2462	8.096		PASS
802.11g	Low	2412	15.19	>500	PASS
	Middle	2437	16.31		PASS
	High	2462	15.43		PASS
802.11n20	Low	2412	15.21	>500	PASS
	Middle	2437	17.31		PASS
	High	2462	15.20		PASS

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Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
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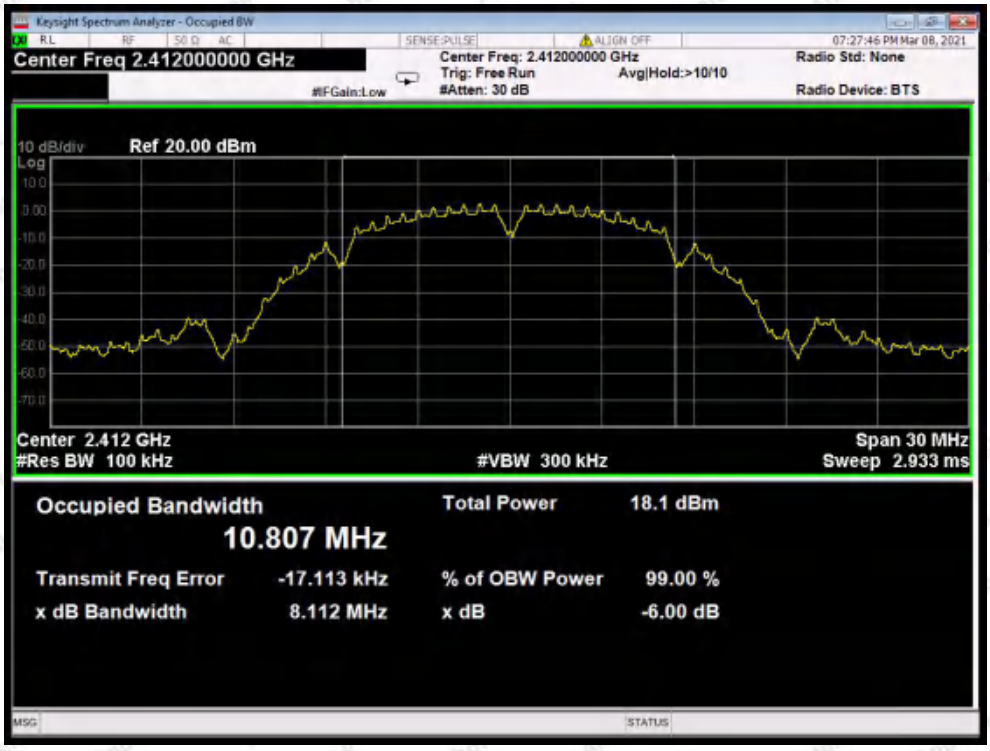
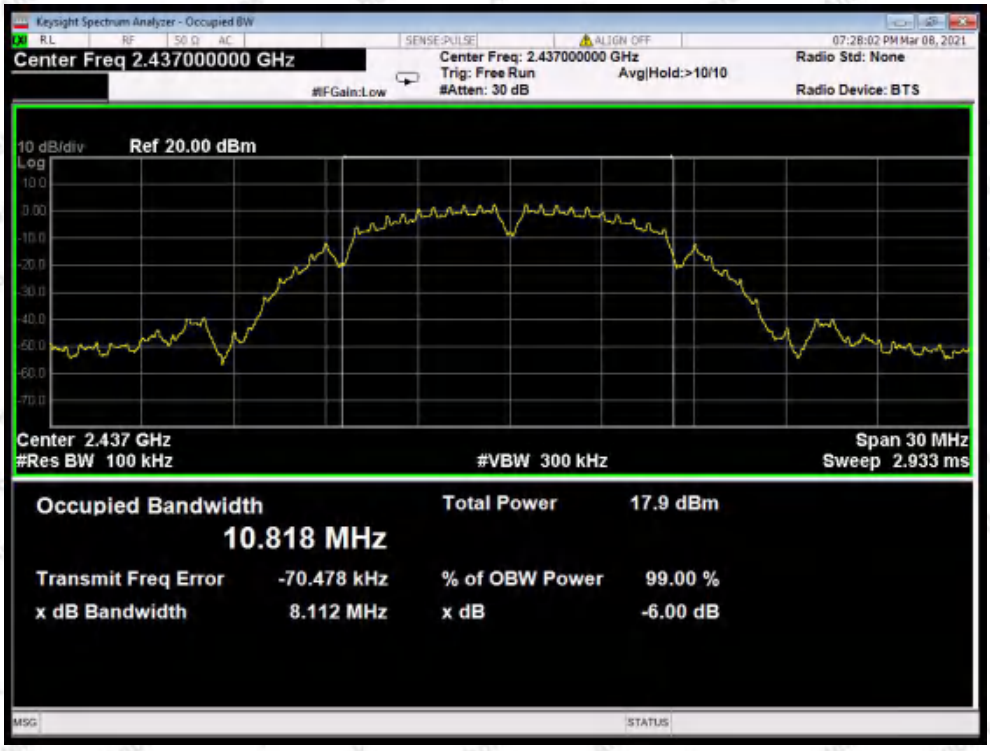
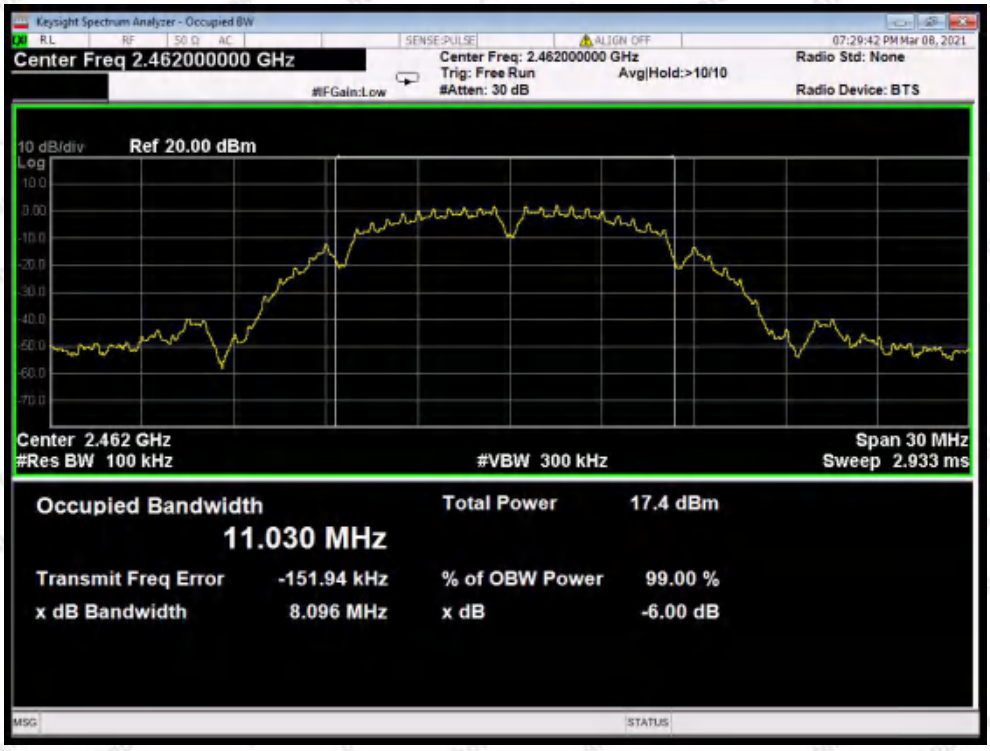


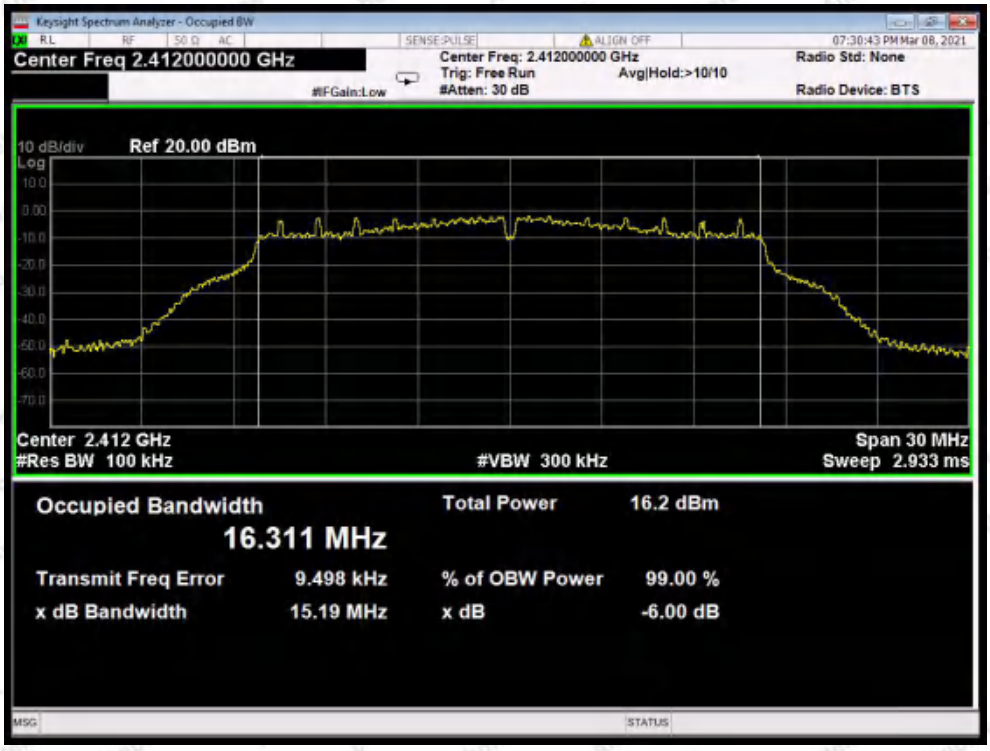
802.11b mode : Lowest



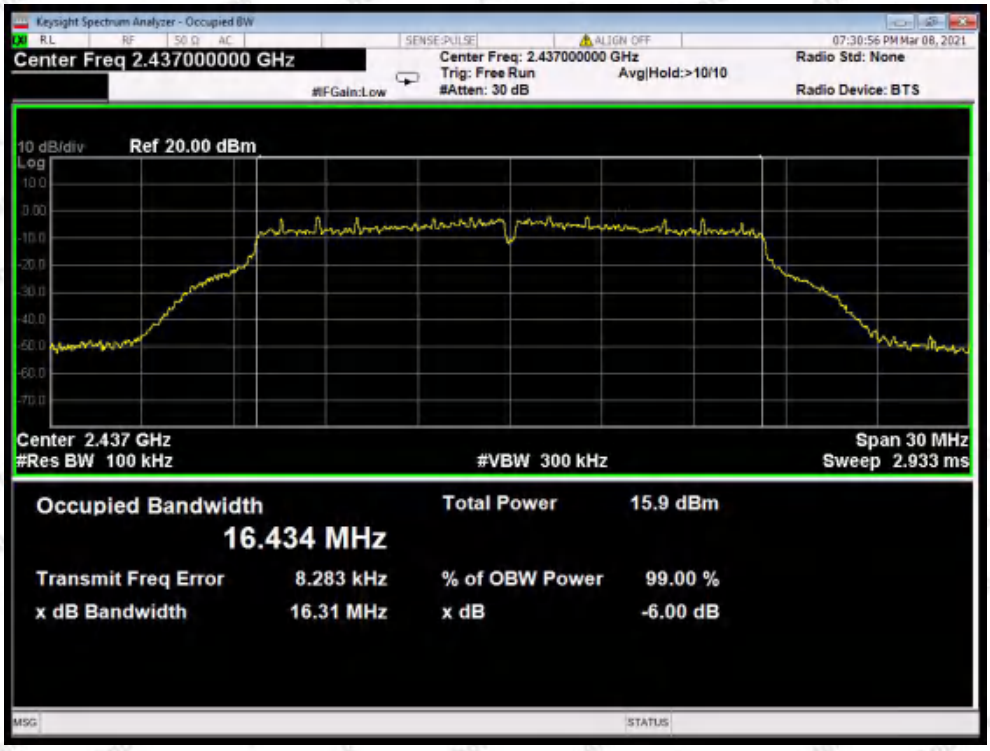
802.11b mode : Middle



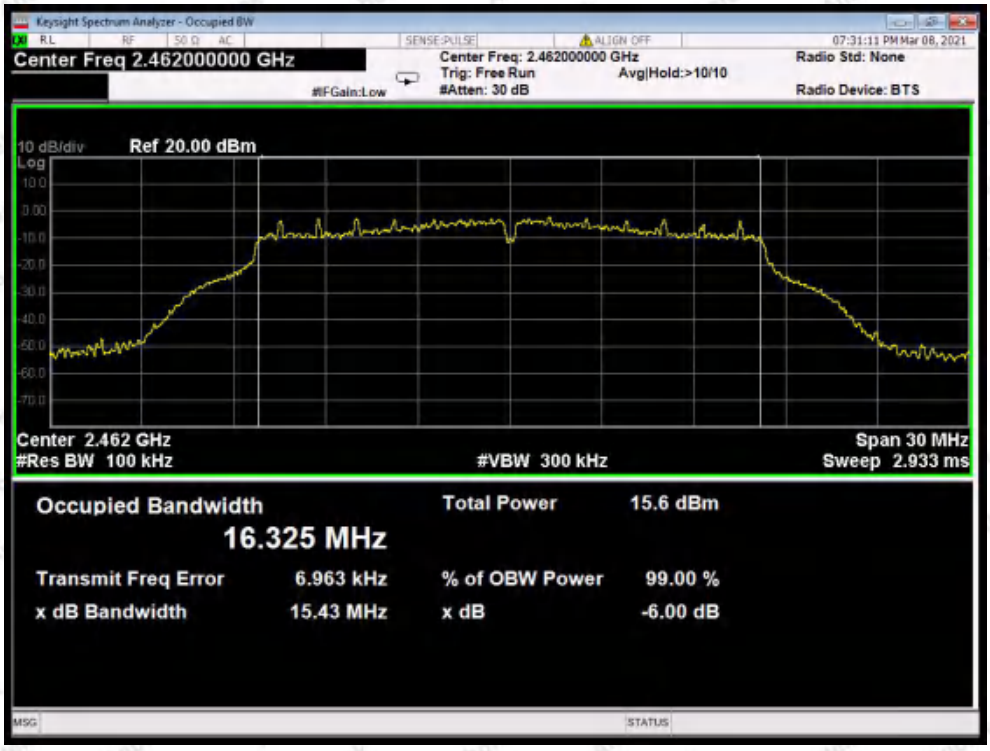
802.11b mode : Highest



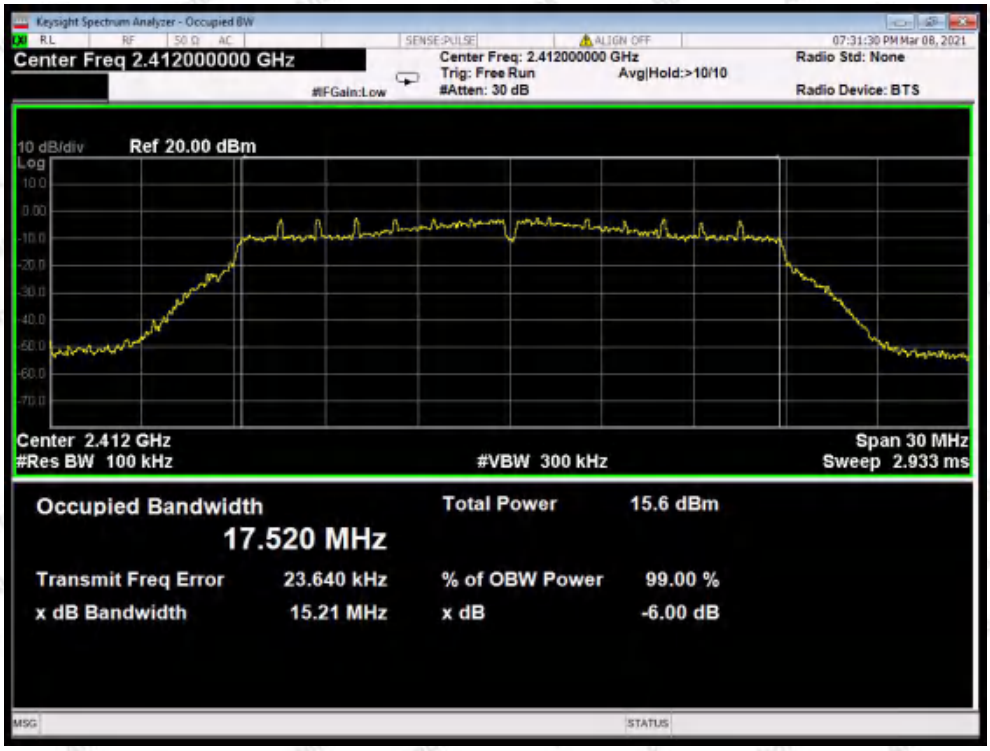
802.11g mode : Lowest



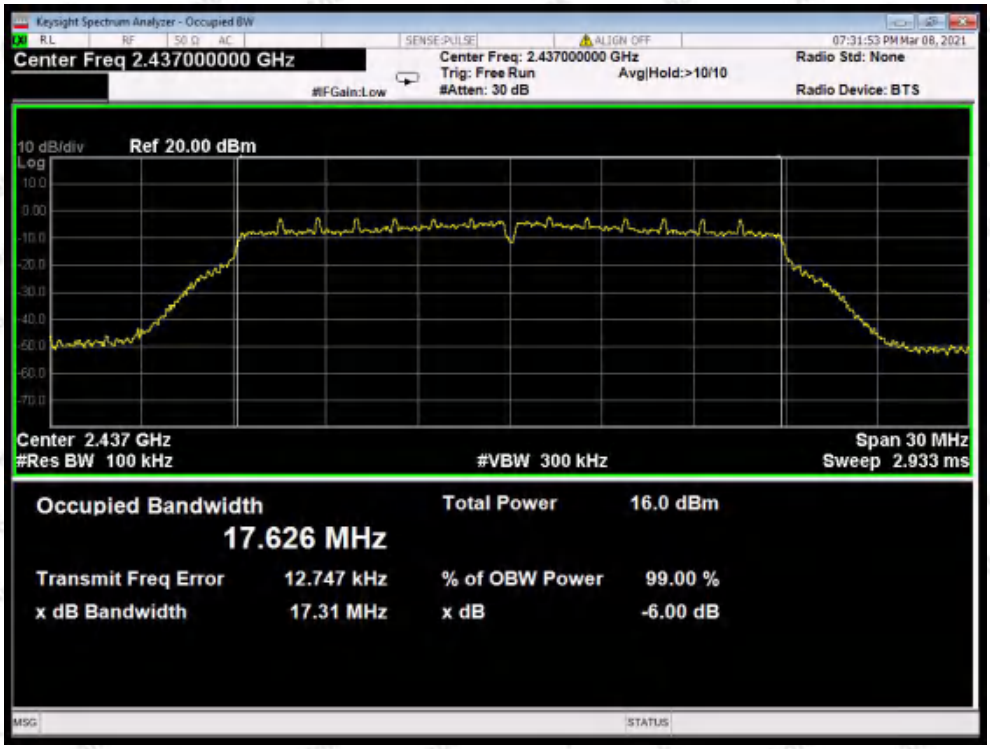
802.11g mode : Middle



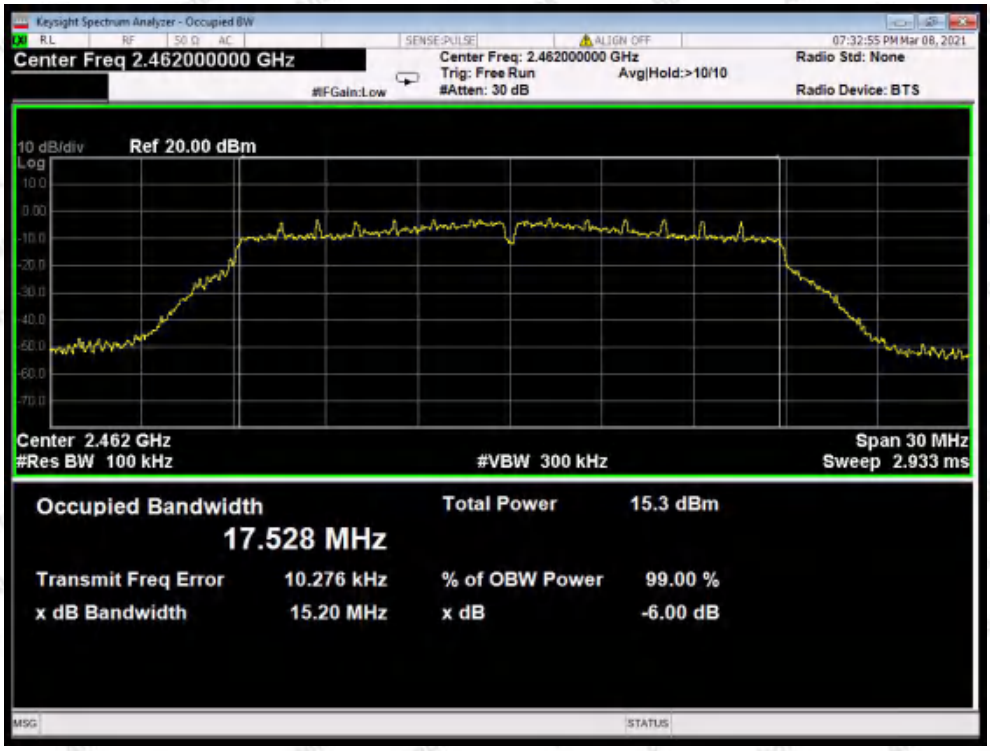
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



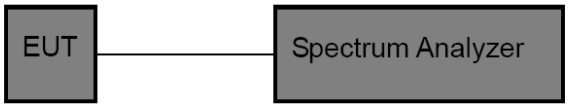
802.11n20 mode : Highest

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section
Test Limit	8dBm/3KHz

7.2. Test Setup



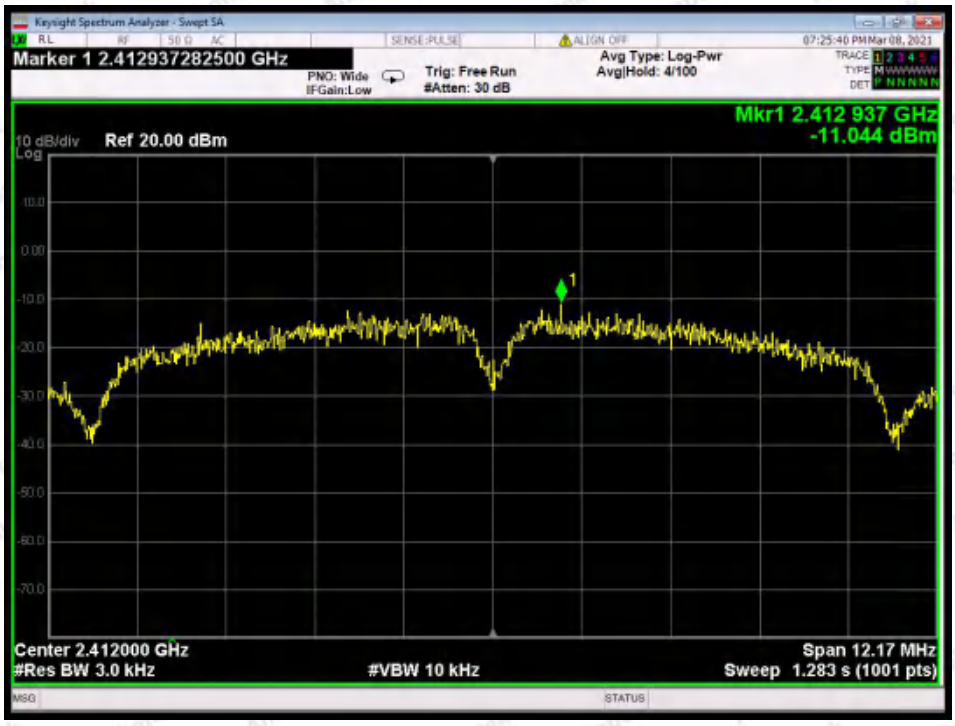
7.3. Test Procedure

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.

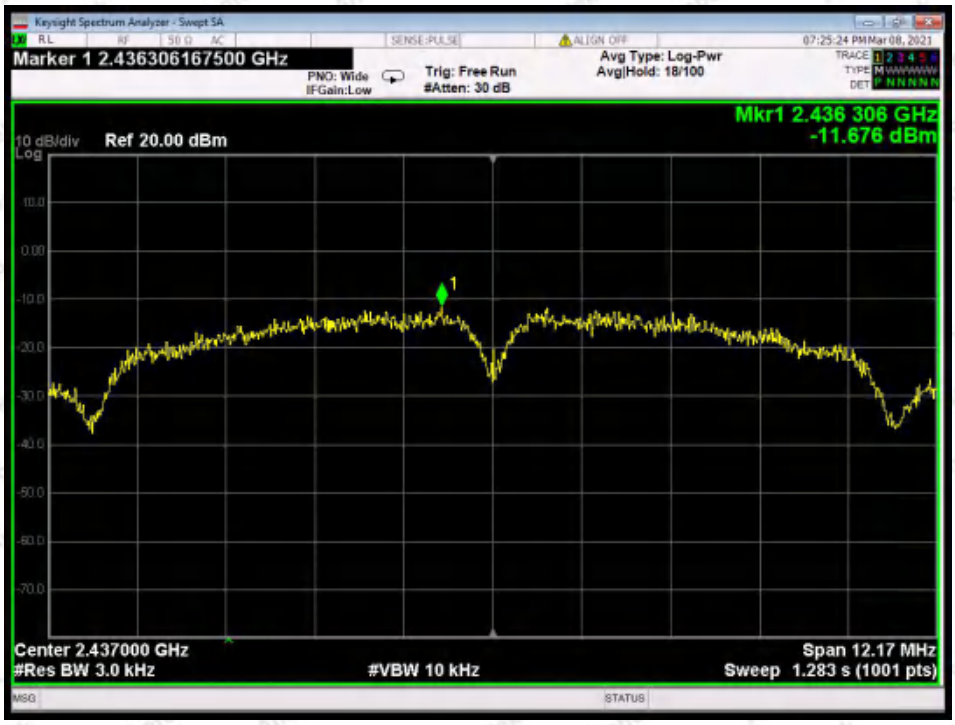
7.4. Test Data

Test Item	:	Power Spectral Density	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	23.3℃
Test Result	:	PASS	Humidity	:	55%RH

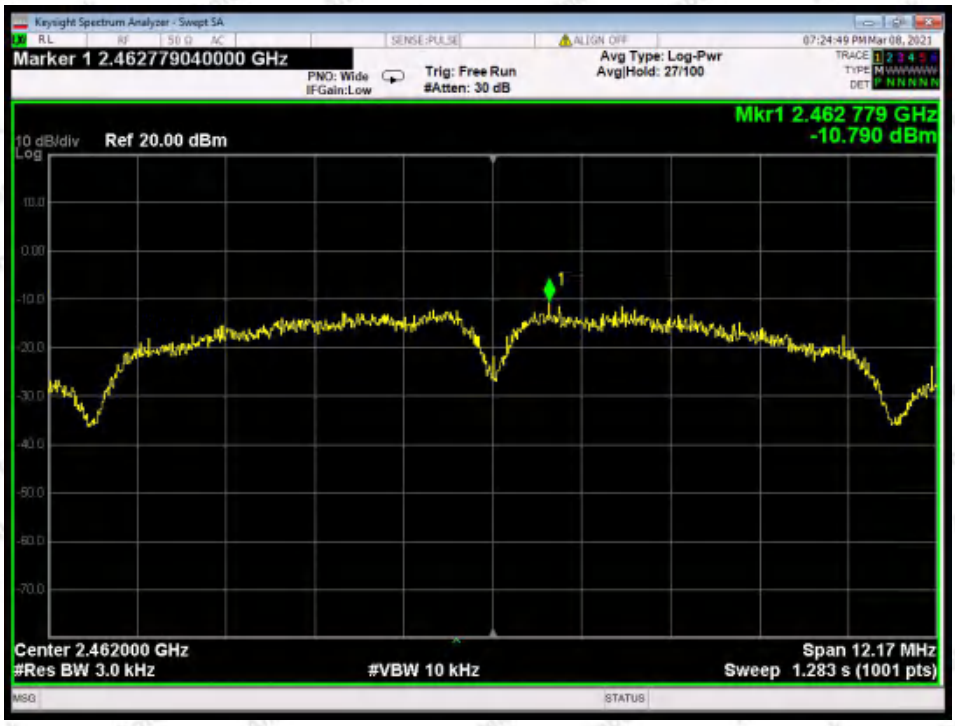
Mode	Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
802.11b	Low	2412	-11.044	8.00	PASS
	Middle	2437	-17.676	8.00	PASS
	High	2462	-10.790	8.00	PASS
802.11g	Low	2412	-14.653	8.00	PASS
	Middle	2437	-15.322	8.00	PASS
	High	2462	-14.502	8.00	PASS
802.11n20	Low	2412	-14.209	8.00	PASS
	Middle	2437	-16.392	8.00	PASS
	High	2462	-15.136	8.00	PASS



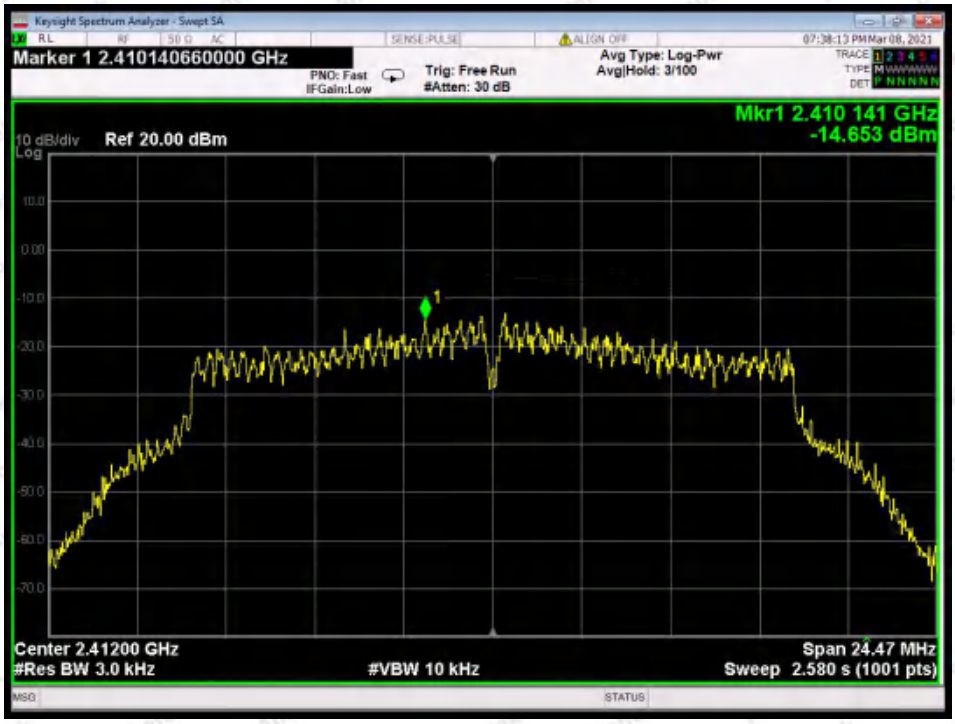
802.11b mode : Lowest



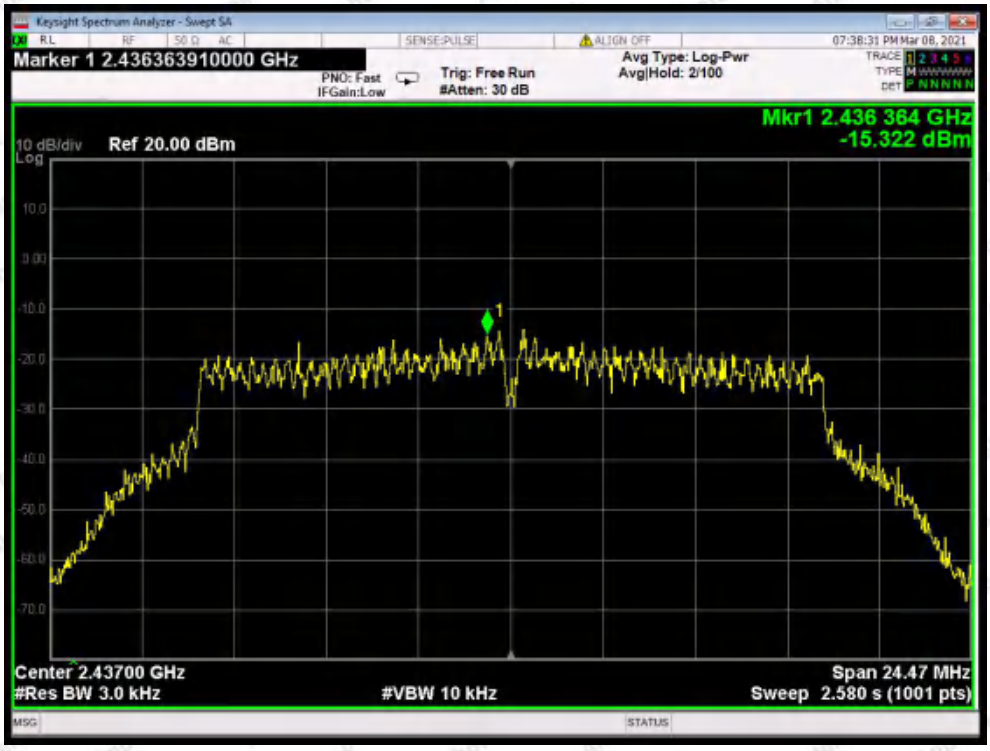
802.11b mode : Middle



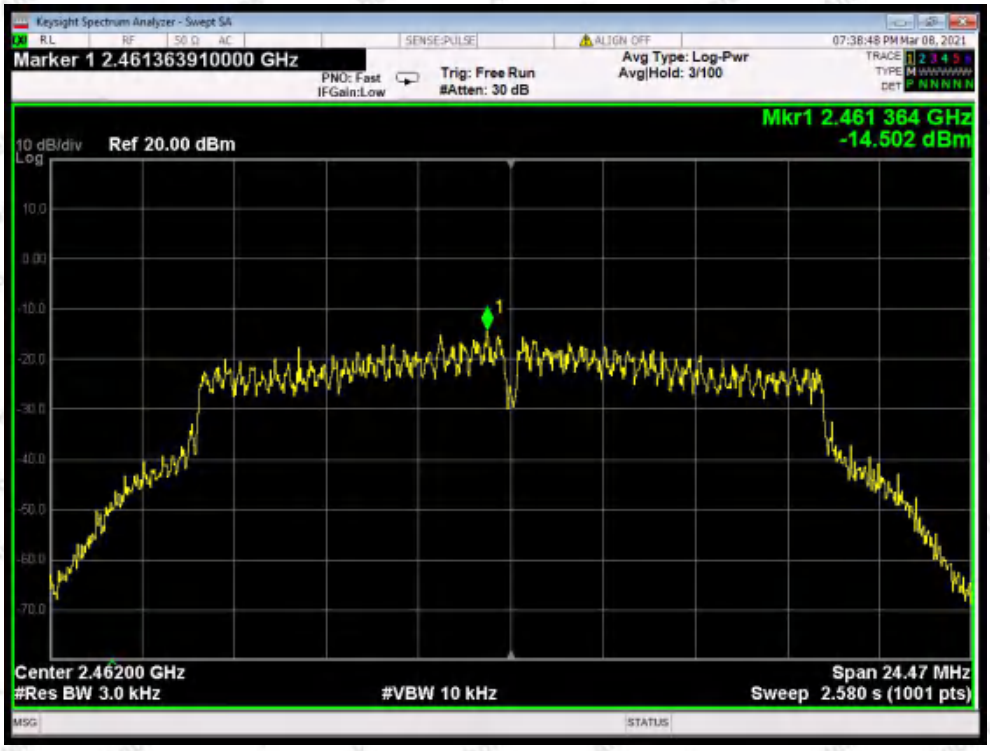
802.11b mode : Highest



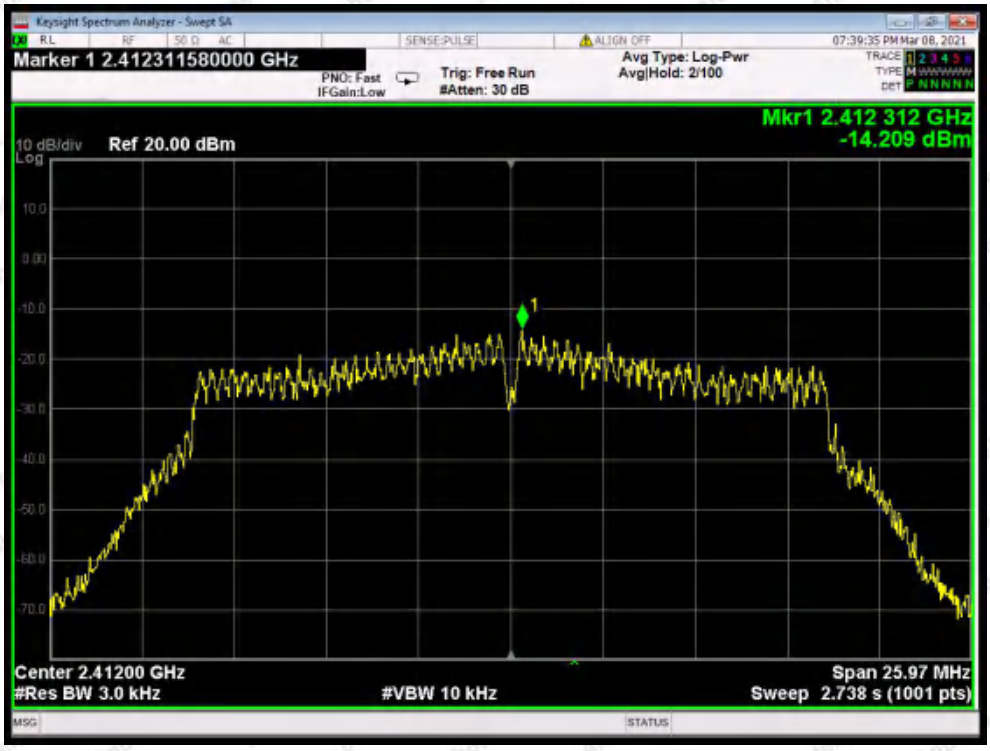
802.11g mode : Lowest



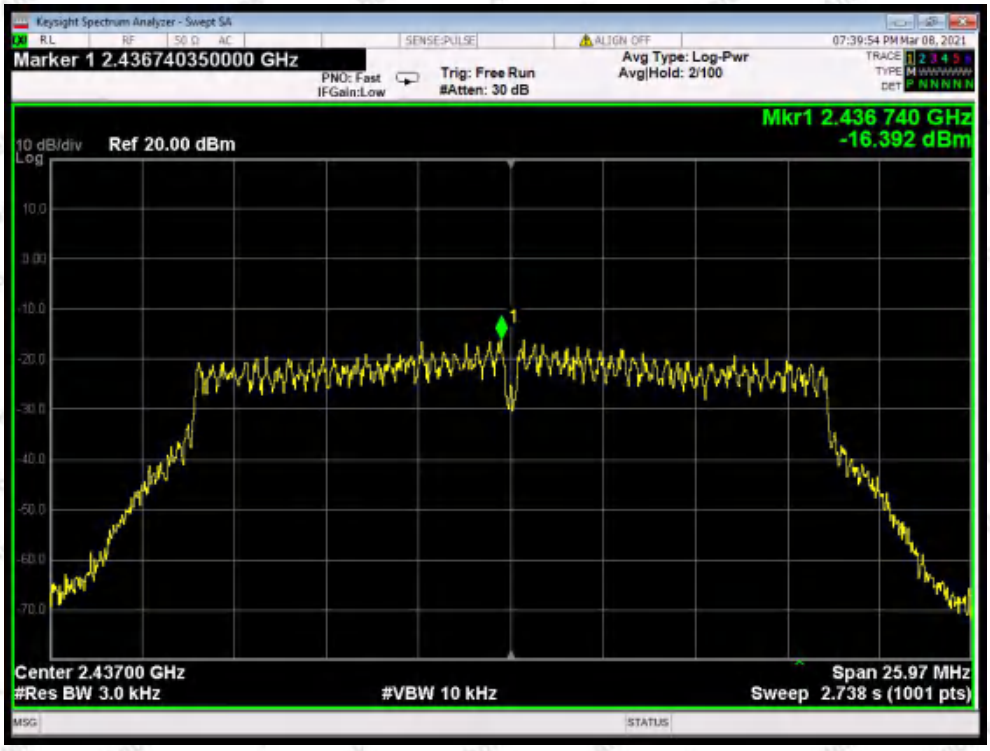
802.11g mode : Middle



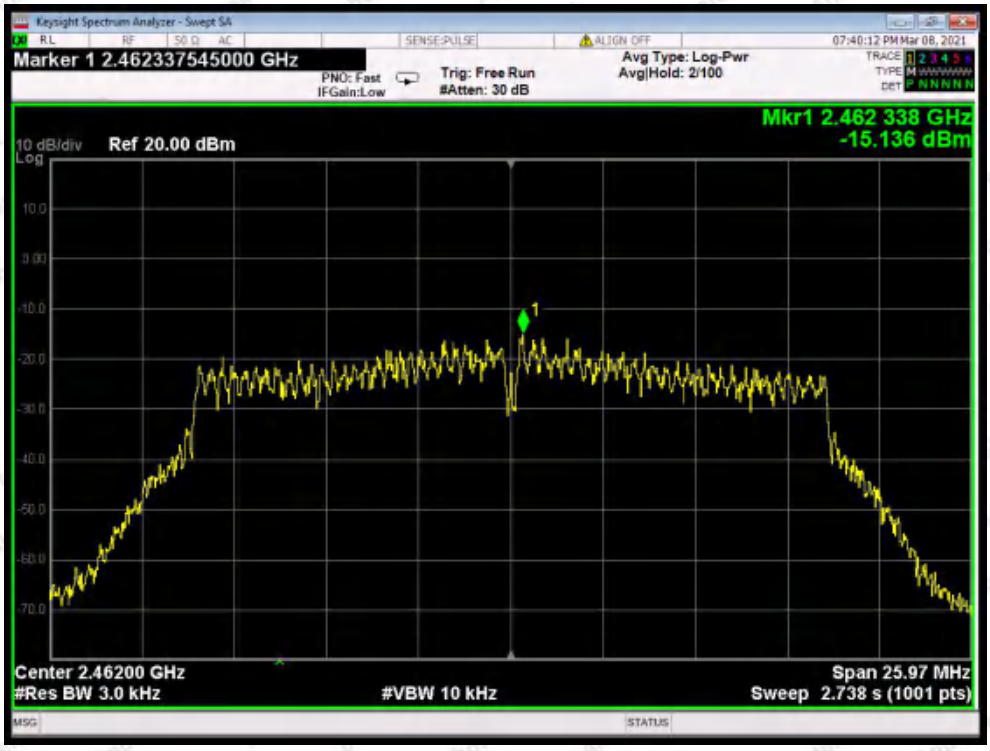
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



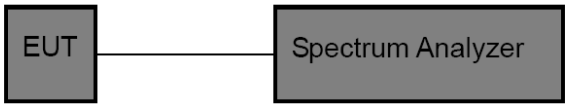
802.11n20 mode : Highest

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 in 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 in15.209(a).

8.2. Test Setup



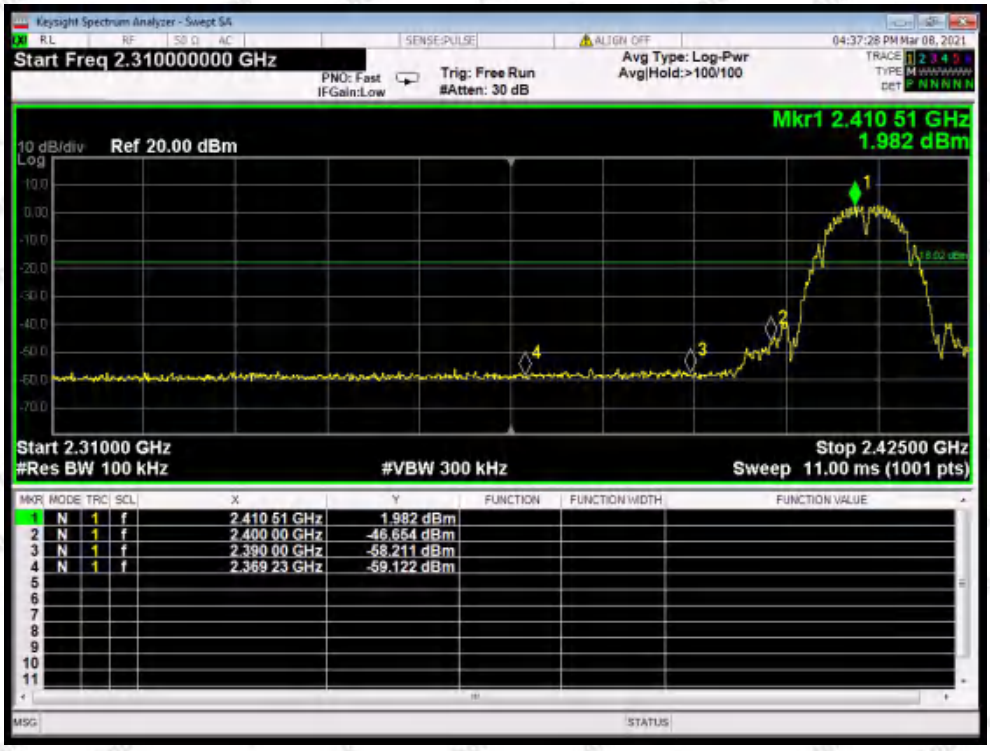
8.3. Test Procedure

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 Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	23.3℃
Test Result	:	PASS	Humidity	:	55%RH



802.11b mode : Lowest

802.11b mode : Highest

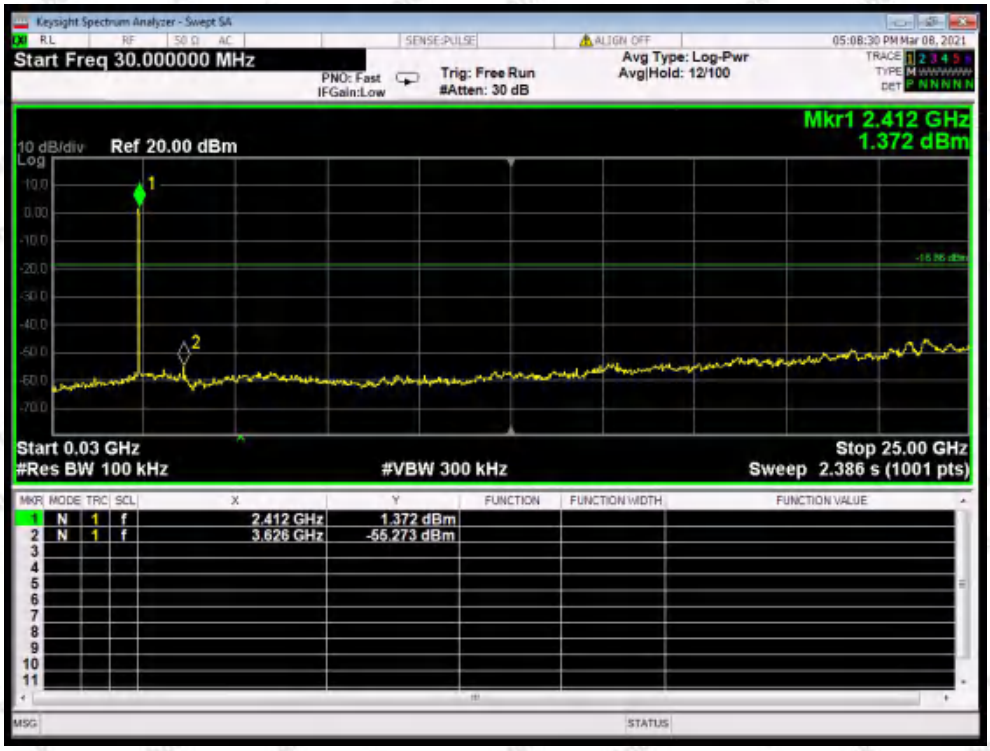
802.11g mode : Lowest

802.11g mode : Highest

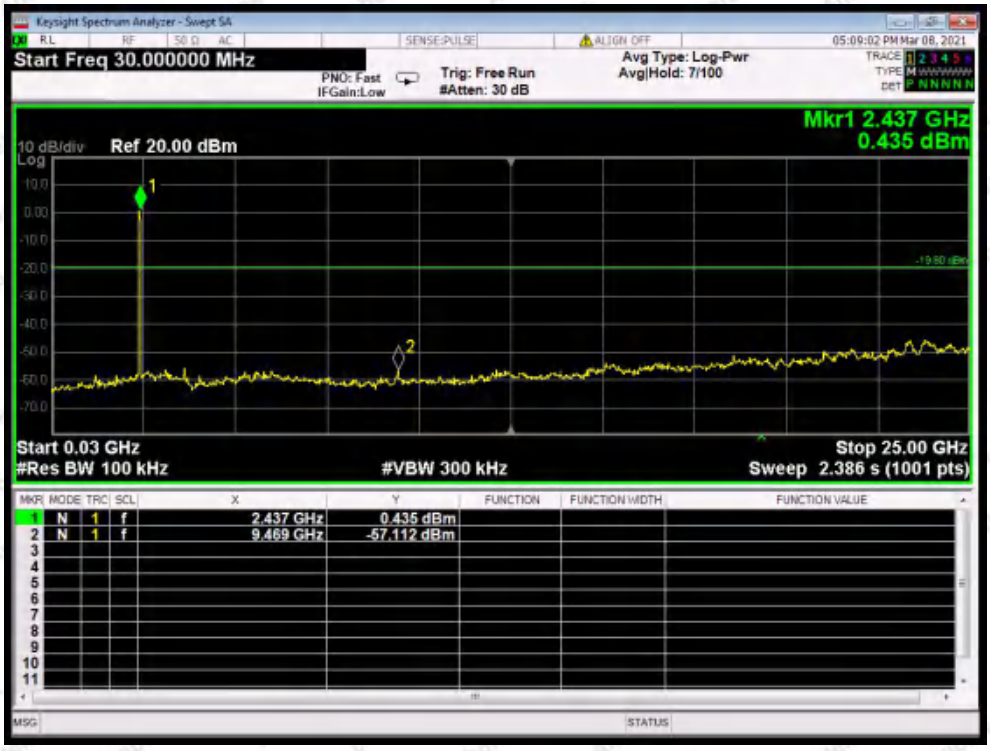
802.11n20 mode : Lowest

802.11n20 mode : Highest

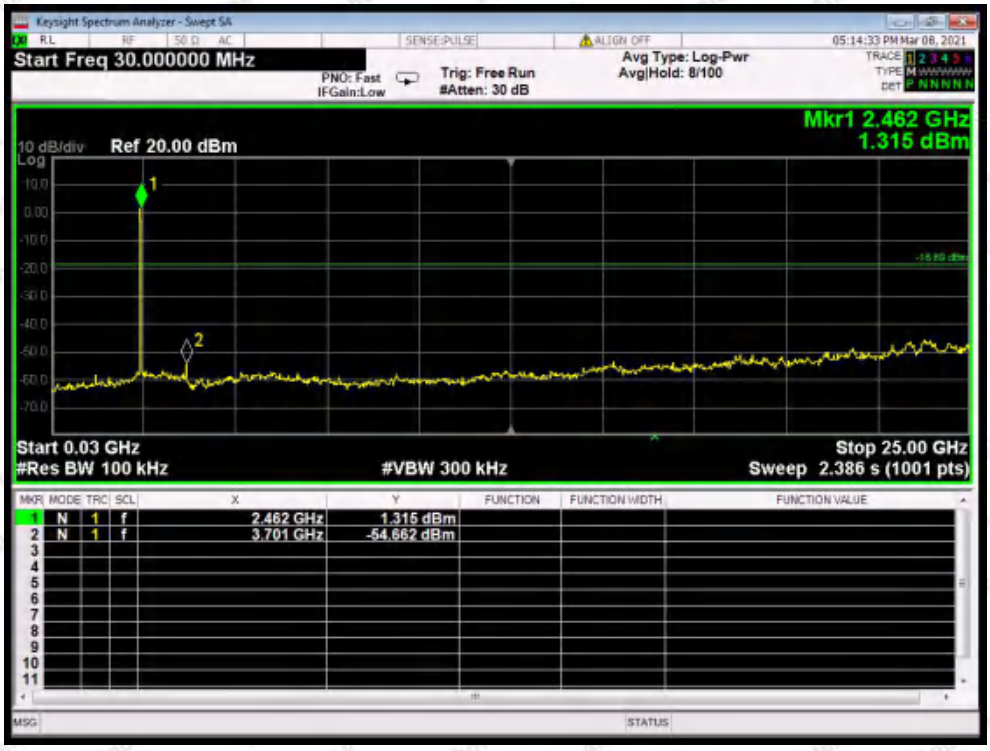
Conducted Emission Method



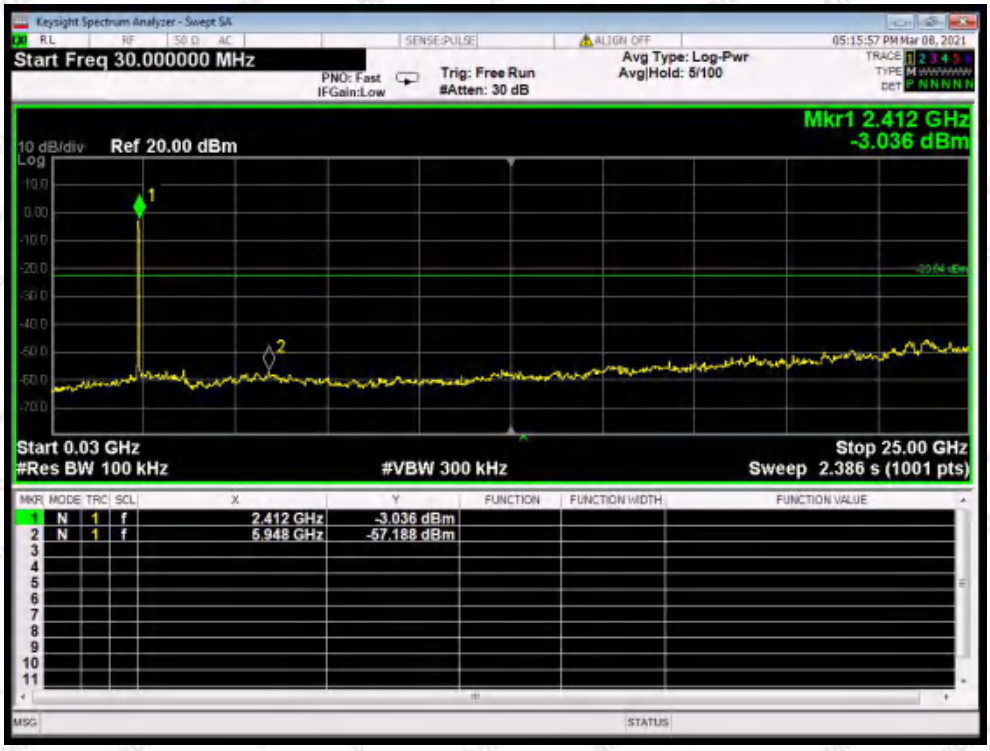
802.11b mode : Lowest



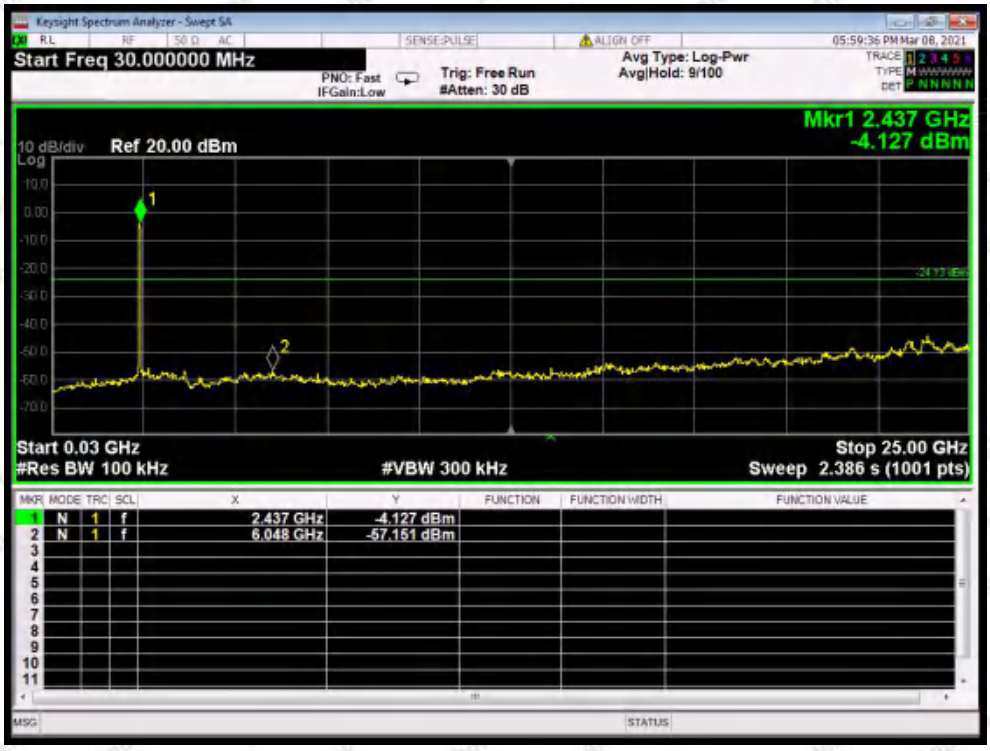
802.11b mode : Middle



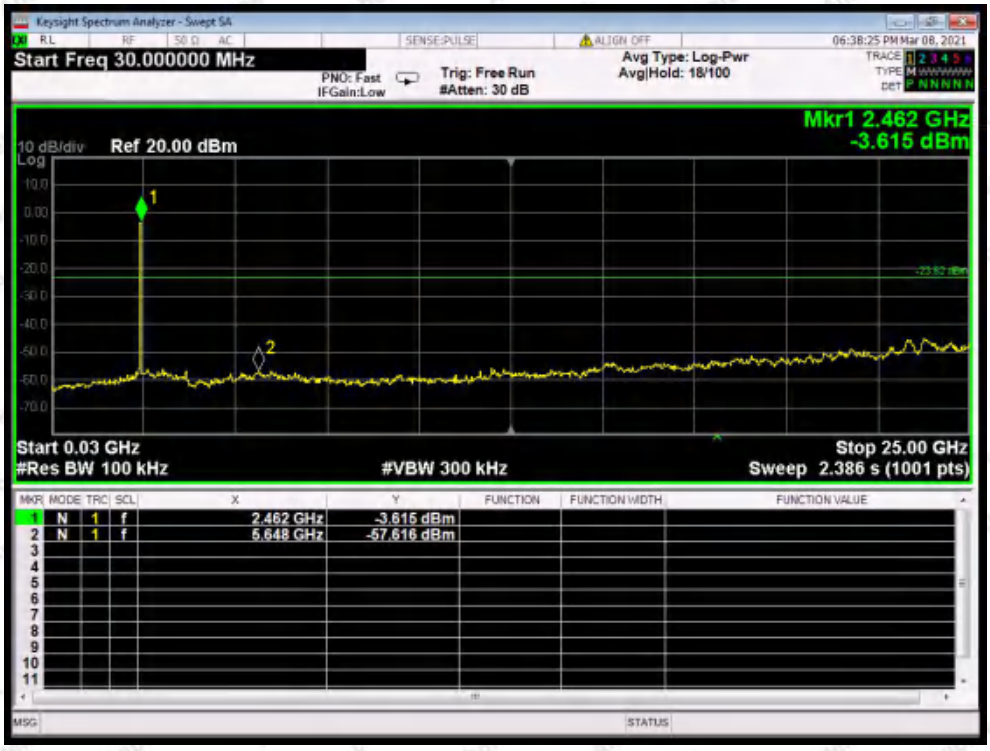
802.11b mode : Highest



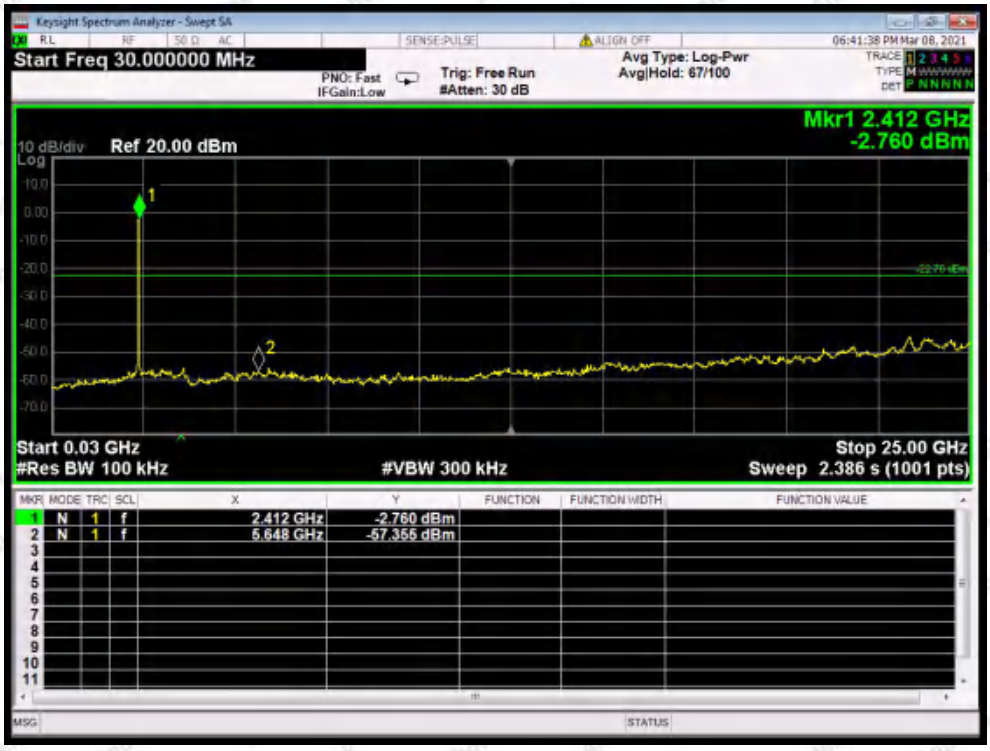
802.11g mode : Lowest



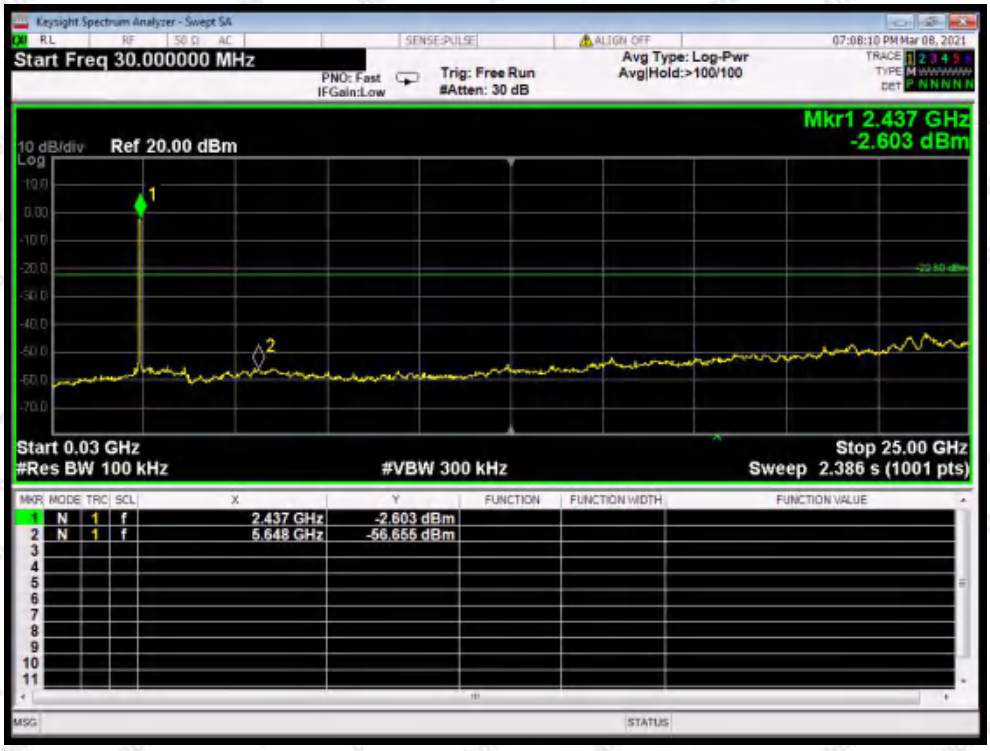
802.11g mode : Middle



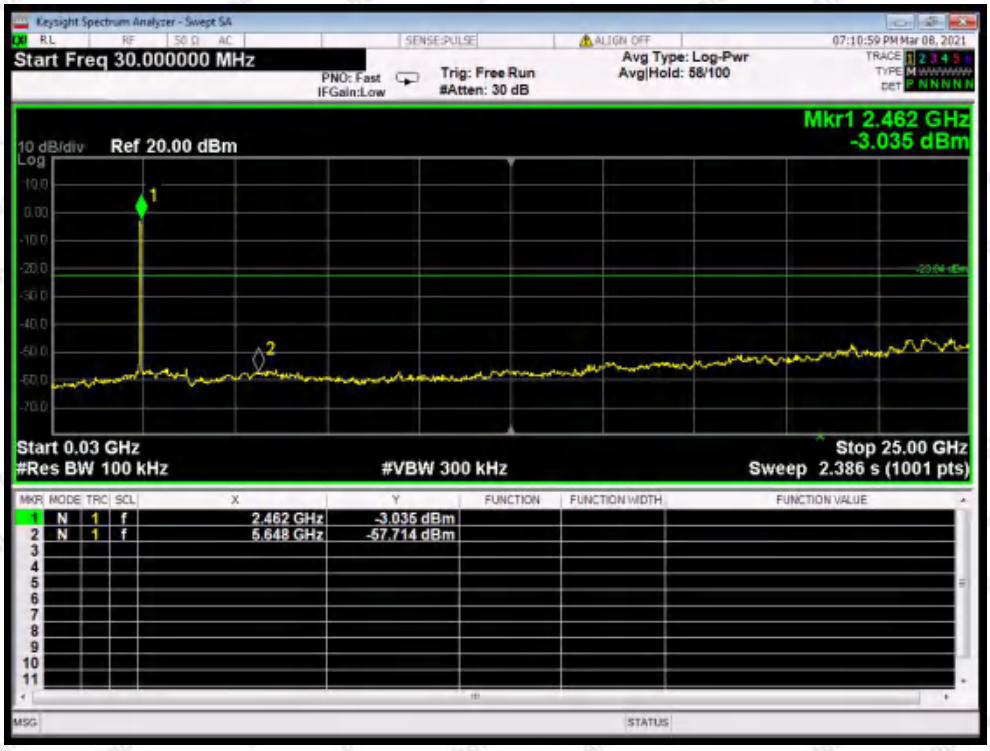
802.11g mode : Highest



802.11n20 mode : Lowest



802.11n20 mode : Middle



802.11n20 mode : Highest

9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	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. 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.

9.2. Antenna Connected Construction

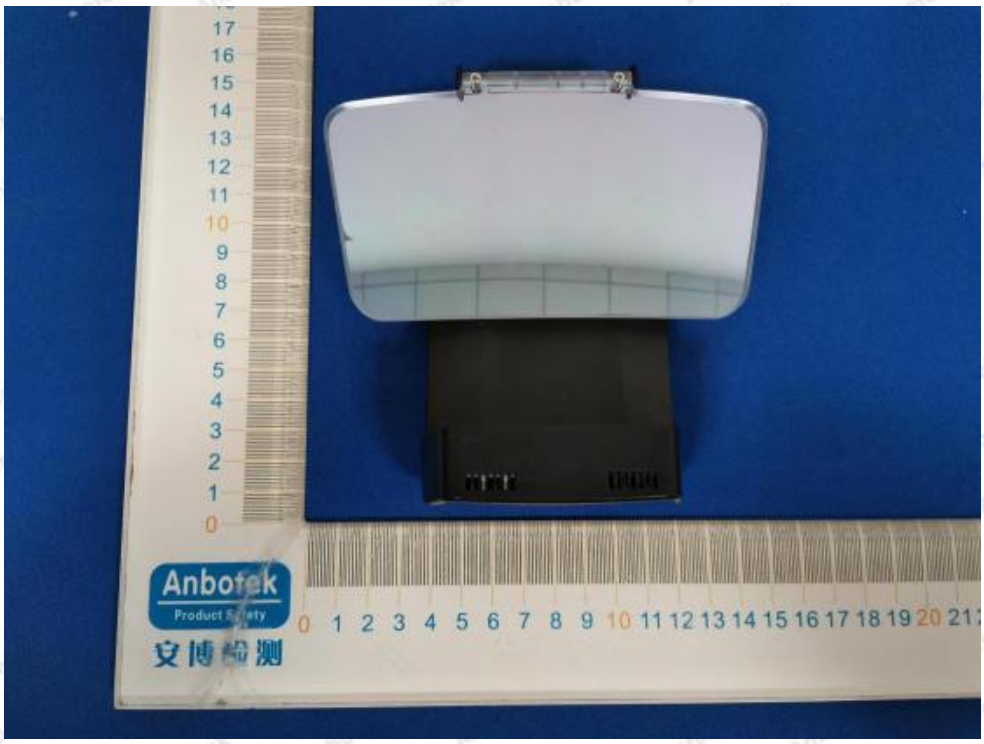
The antenna is a Ceramic Antenna which permanently attached, and the best case gain of the antenna is 2 dBi It complies with the standard requirement.

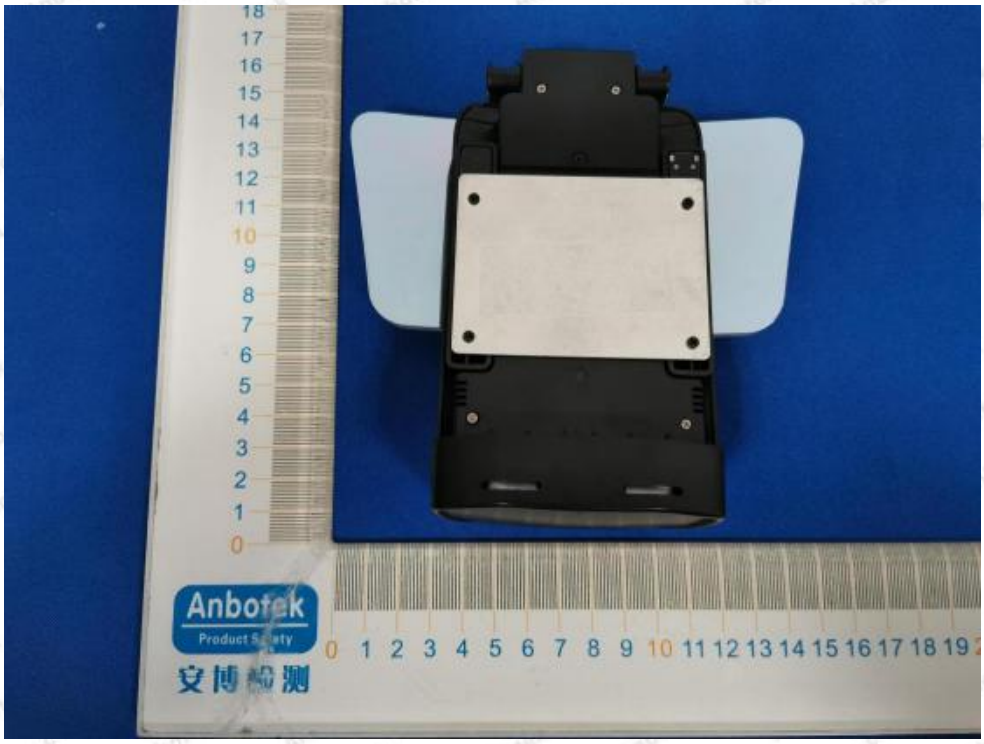
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

Photo of Radiation Emission Test

APPENDIX II -- EXTERNAL PHOTOGRAPH





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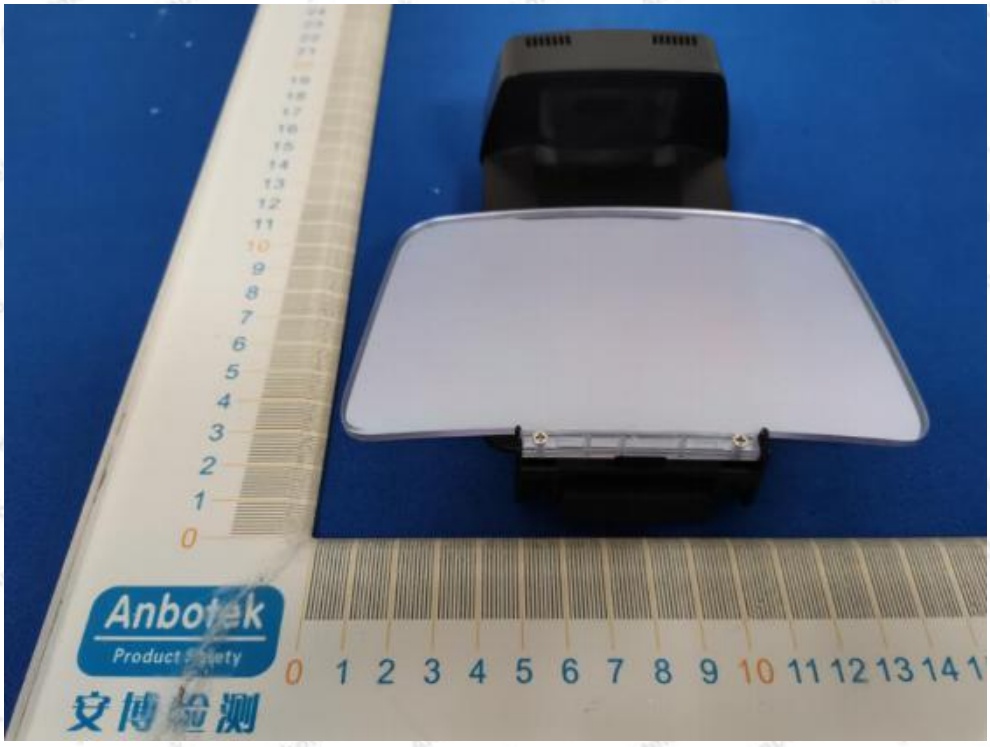
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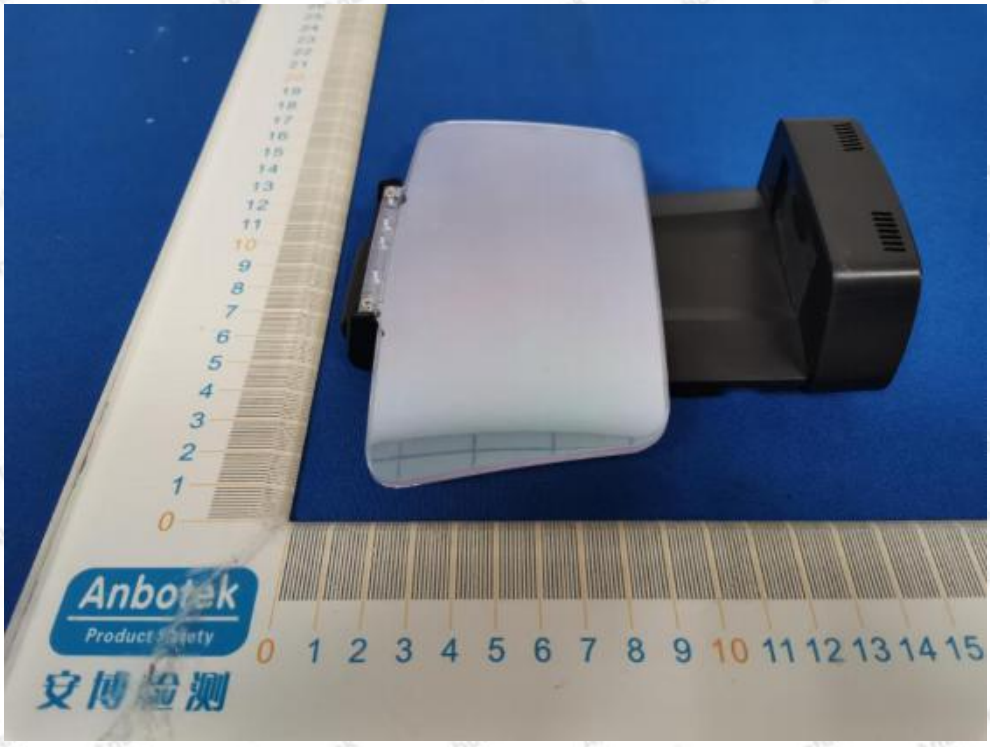
安博检测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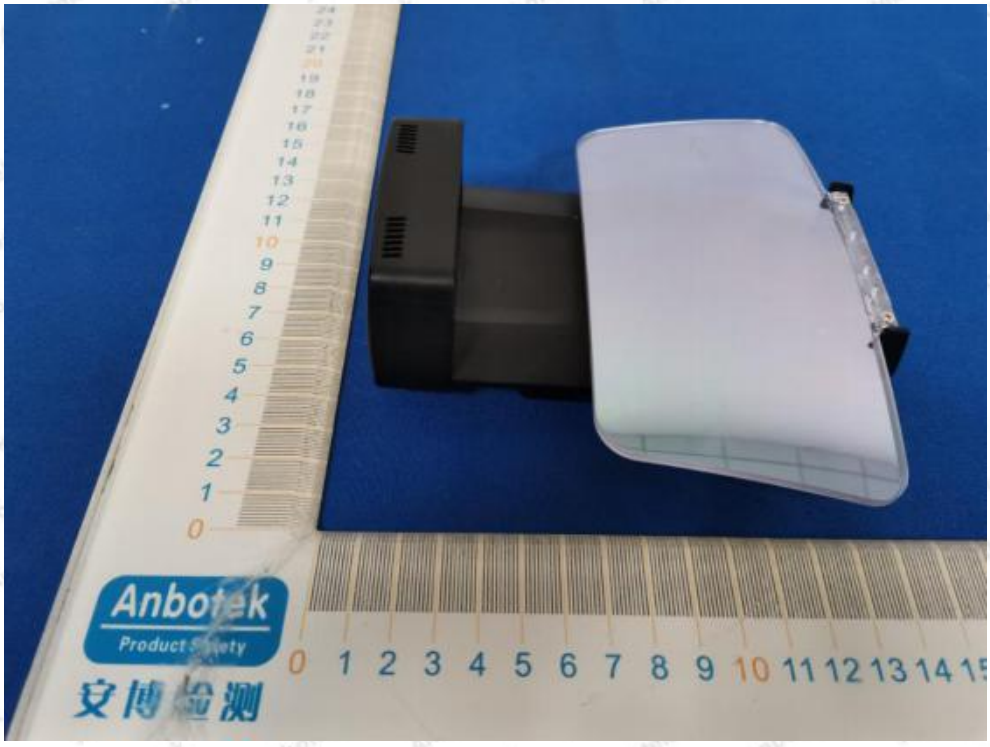
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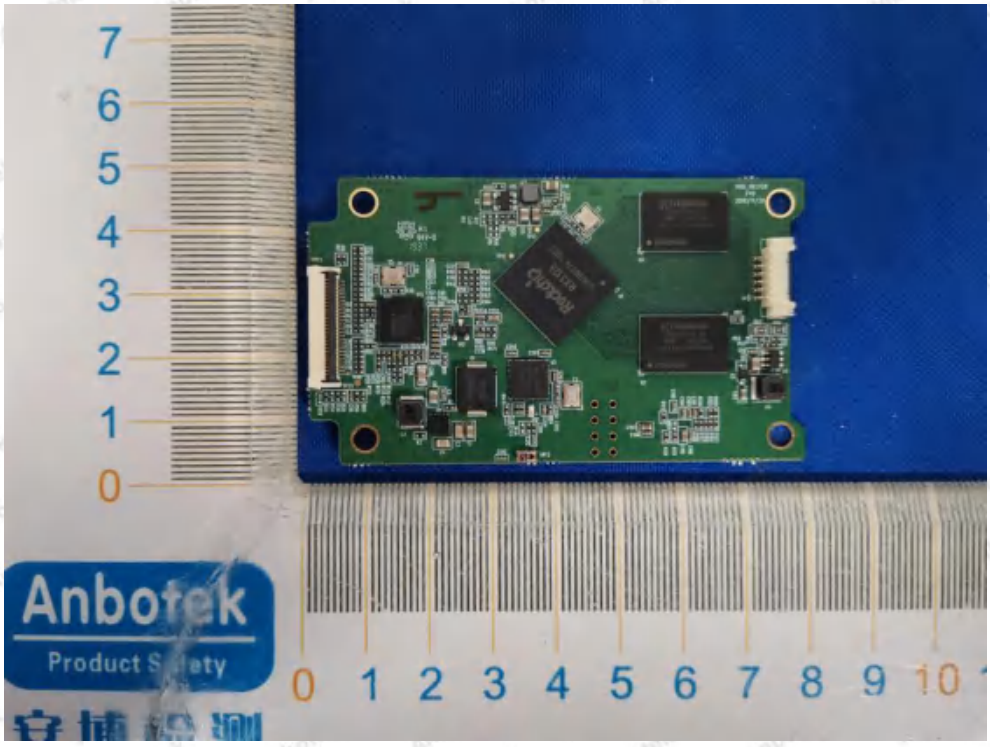
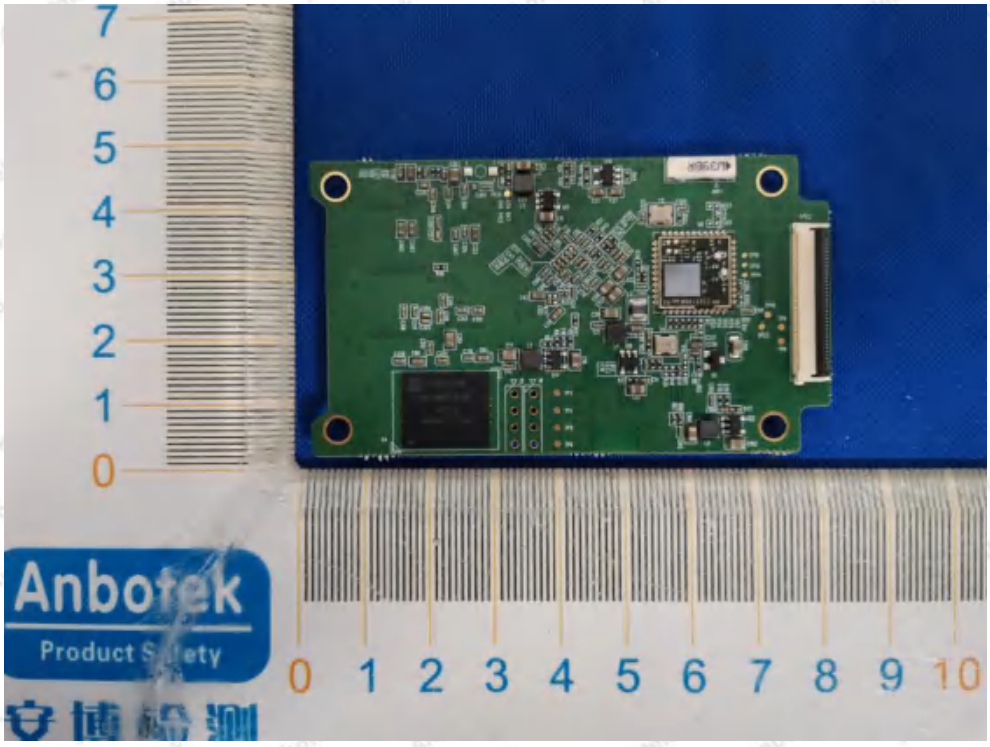
APPENDIX III -- INTERNAL PHOTOGRAPH





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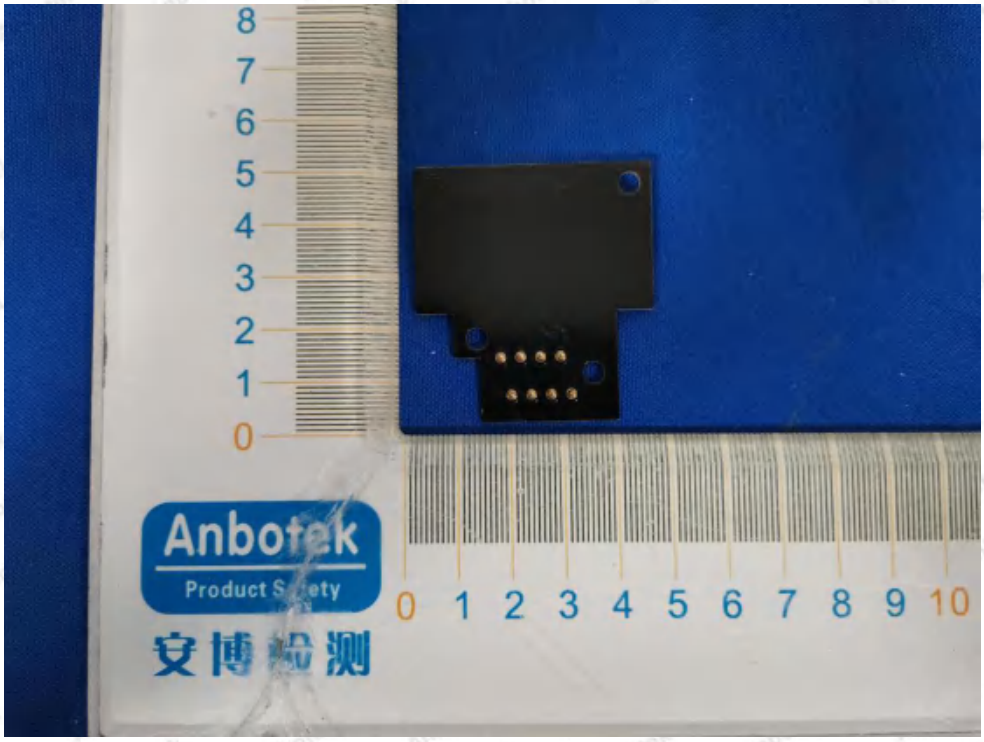
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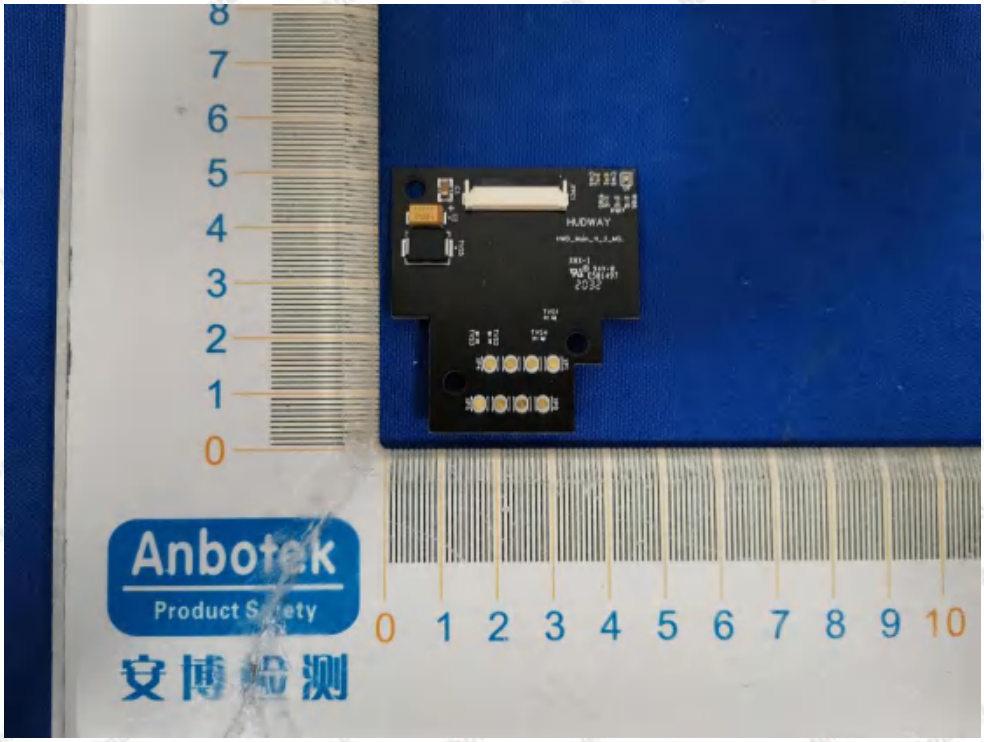
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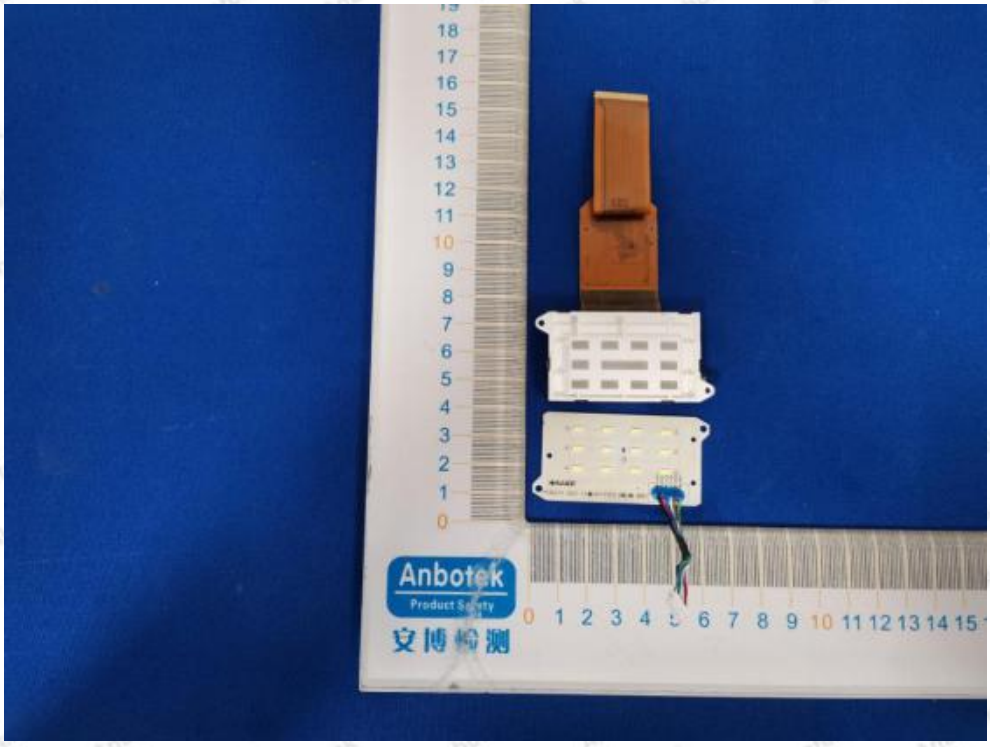
Anbotek
安博检测



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