

FCC TEST REPORT

Client Name : RICHTECH CREATIVE DISPLAYS LLC

Address : 4715 Cameron St Ste1, Las Vegas, Nevada 89103, USA

Product Name : Automated AI Temperature Screening System

Date : Mar. 30, 2021



Shenzhen Anbotech Compliance Laboratory Limited



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TEST REPORT

Applicant : RICHTECH CREATIVE DISPLAYS LLC

Manufacturer : RICHTECH SYSTEM LTD

Product Name : Automated AI Temperature Screening System

Model No. : V3 W

Trade Mark : N.A.

Rating(s) : Input: DC 12V, 600mA (Via adapter Input: AC 100~240V, 50/60Hz, 0.3A;
Output: DC 12V, 2A MAX)

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

Feb. 23, 2021

Date of Test

Feb. 23~Mar. 19, 2021

Prepared by



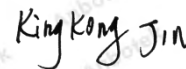
(Engineer / Ella Liang)

Reviewer



(Supervisor / Bibo Zhang)

Approved & Authorized Signer



(Manager / Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	RICHTECH CREATIVE DISPLAYS LLC
Address	:	4715 Cameron St Ste1, Las Vegas, Nevada 89103, USA
Manufacturer	:	RICHTECH SYSTEM LTD
Address	:	Room 910, Himalayan J Building, 9 Liuchao Road, Yuhuatai District, Nanjing City, Jiangsu
Factory	:	RICHTECH SYSTEM LTD
Address	:	Room 910, Himalayan J Building, 9 Liuchao Road, Yuhuatai District, Nanjing City, Jiangsu

1.2. Description of Device (EUT)

Product Name	:	Automated AI Temperature Screening System
Model No.	:	V3 W
Trade Mark	:	N.A.
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:	802.11b/ g/ n(HT20) 2412-2462MHz 802.11n(HT40) 2422-2452MHz
	Number of Channel:	11 Channels for 802.11b/ g/ n(HT20) 7 Channels for 802.11n(HT40)
	Modulation Type:	802.11b CCK; 802.11g/n OFDM
	Antenna Type:	Cylindrical Antenna
	Antenna Gain(Peak):	2.5 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	:	Model: STD-2013S Input: AC 100~240V, 50/60Hz, 0.3A Output: DC 12V, 2A MAX
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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)
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0

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

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

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
802.11n HT40	3 to 9	3, 6, 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).

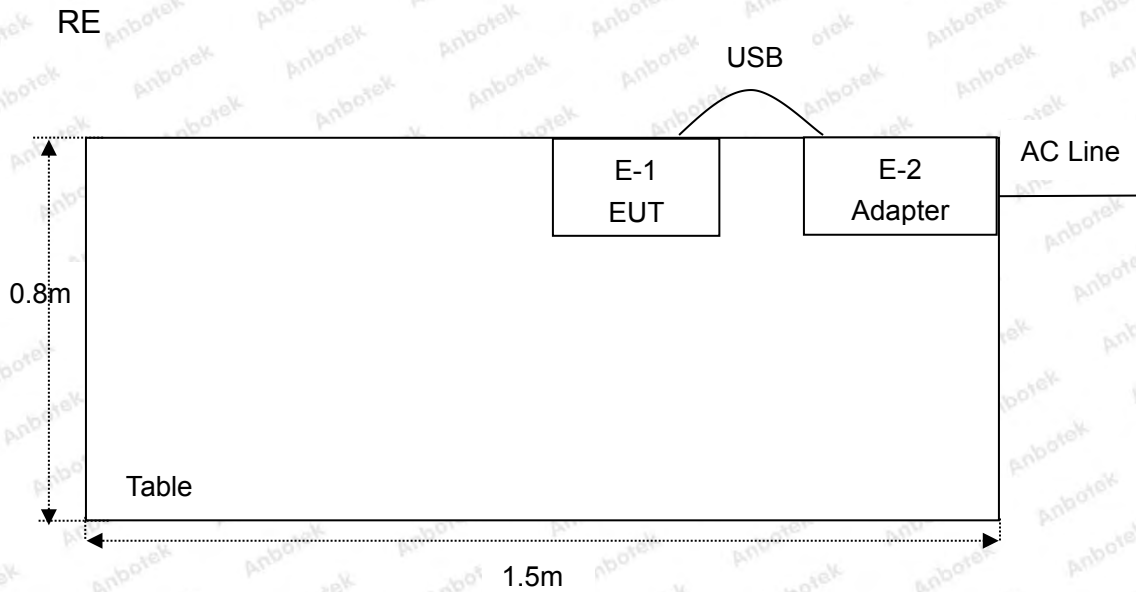
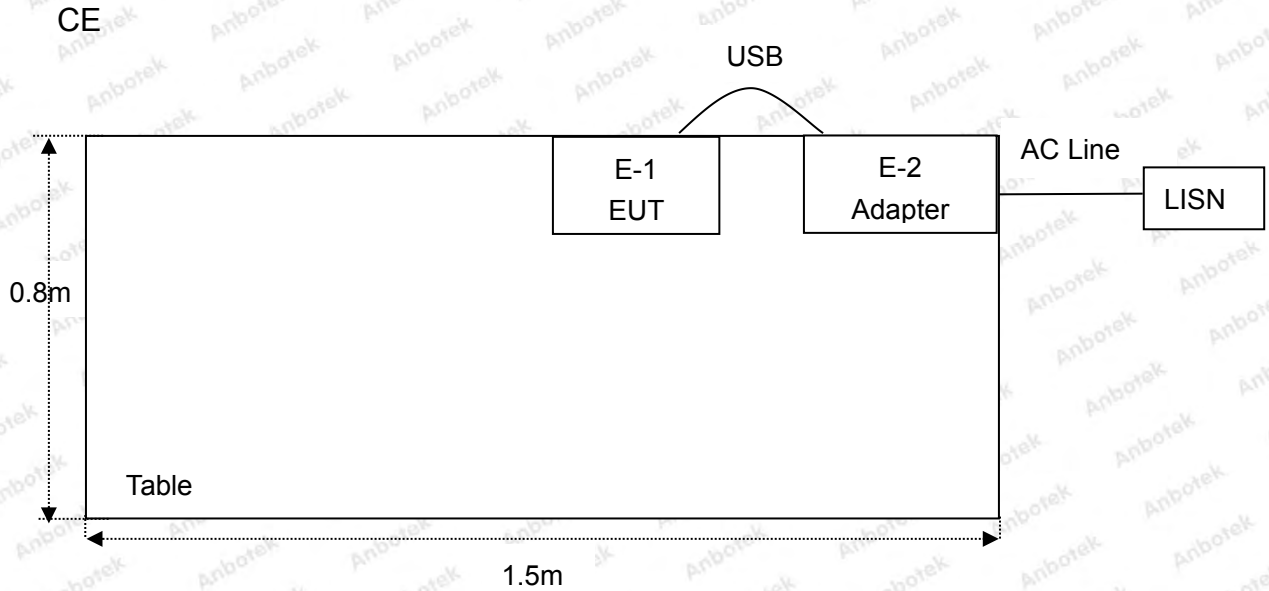
Following channel(s) was (were) selected for the final test as listed below.

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)	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



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	BK1G18G30 D	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-KHWS80 B	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 Anbotech 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, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotech 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 Anbotech 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.		



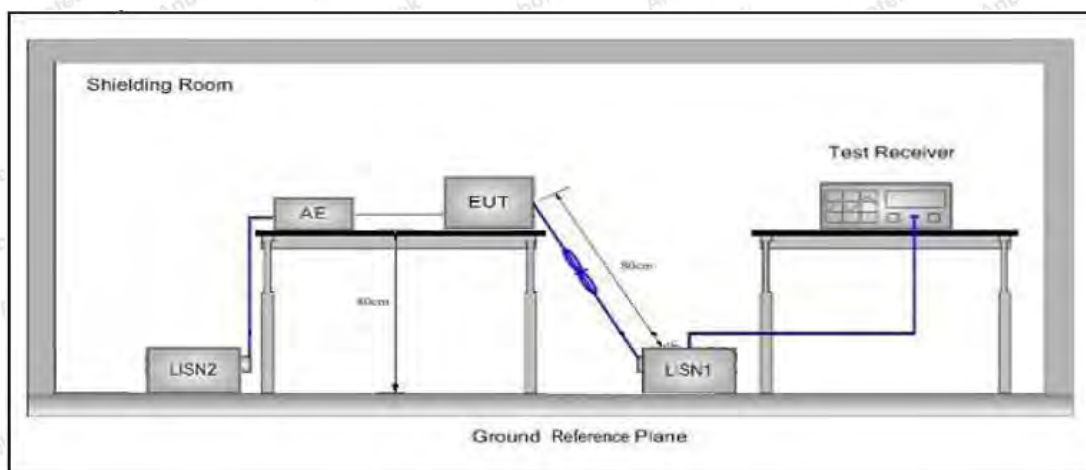
3. Conducted Emission Test

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.

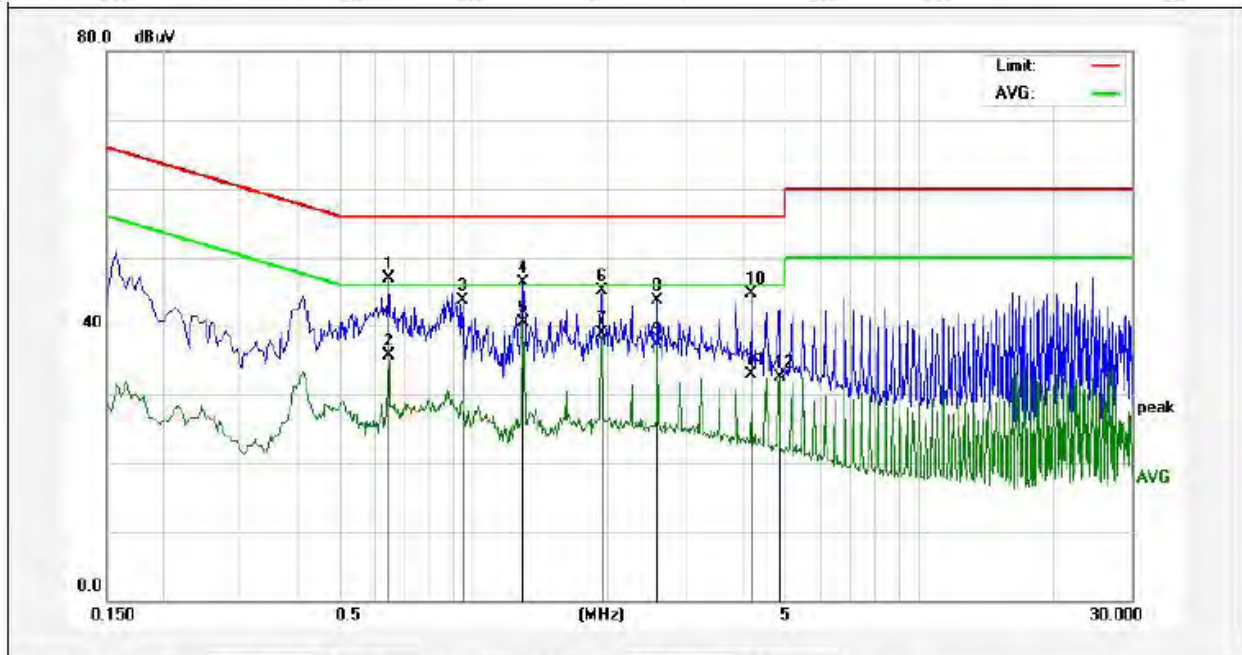
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11g CH11 which is the worst case, only the worst case is recorded in the report.

Conducted Emission Test Data

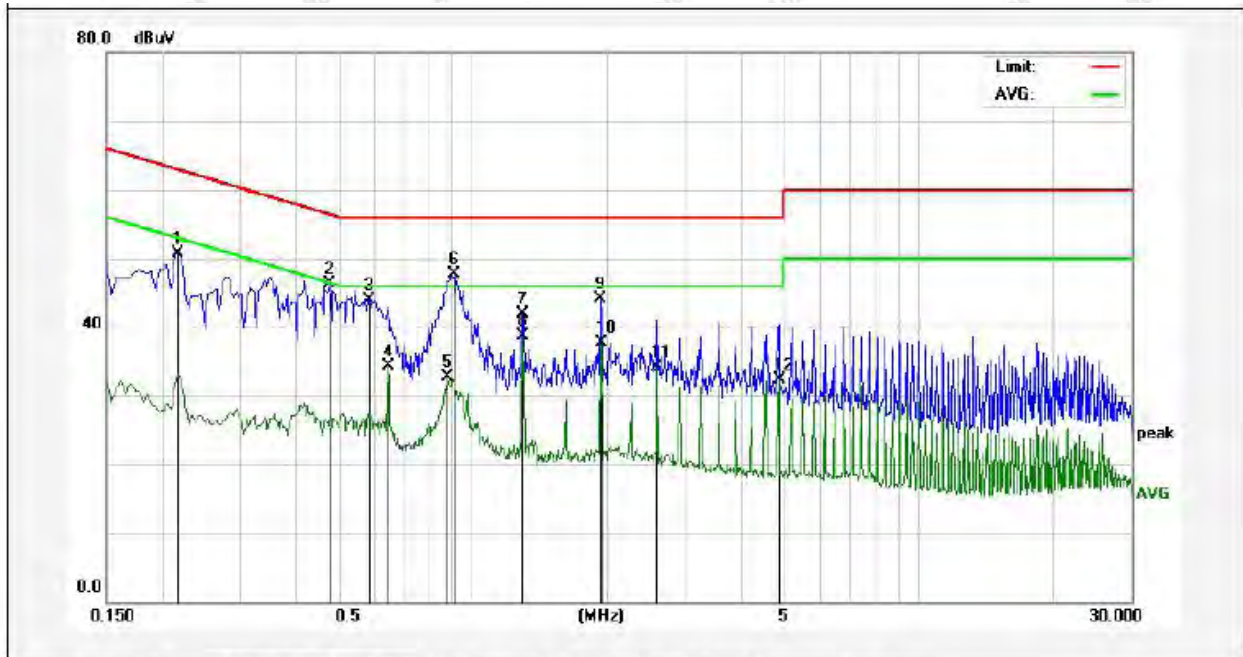
Test Site: 1# Shielded Room
 Operating Condition: 802.11g CH11
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 20.7°C Hum.: 42%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.6460	26.89	20.02	46.91	56.00	-9.09	QP	
2	0.6460	15.70	20.02	35.72	46.00	-10.28	AVG	
3	0.9460	23.56	20.11	43.67	56.00	-12.33	QP	
4	1.2940	26.18	20.13	46.31	56.00	-9.69	QP	
5	1.2940	20.45	20.13	40.58	46.00	-5.42	AVG	
6	1.9420	24.94	20.14	45.08	56.00	-10.92	QP	
7	1.9420	18.85	20.14	38.99	46.00	-7.01	AVG	
8	2.5860	23.58	20.15	43.73	56.00	-12.27	QP	
9	2.5860	17.08	20.15	37.23	46.00	-8.77	AVG	
10	4.2060	24.53	20.19	44.72	56.00	-11.28	QP	
11	4.2060	12.74	20.19	32.93	46.00	-13.07	AVG	
12	4.8500	12.24	20.20	32.44	46.00	-13.56	AVG	

Conducted Emission Test Data

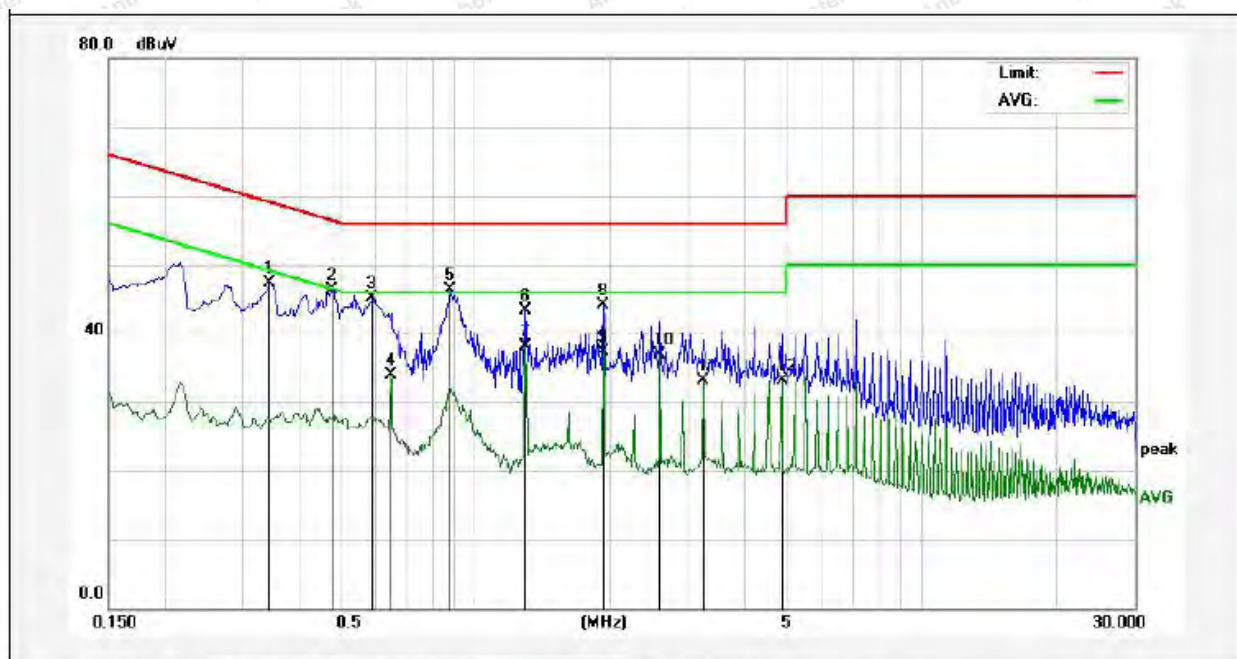
Test Site: 1# Shielded Room
Operating Condition: 802.11g CH11
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 20.7°C Hum.: 42%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2180	30.82	19.90	50.72	62.89	-12.17	QP	
2	0.4780	26.34	19.97	46.31	56.37	-10.06	QP	
3	0.5860	23.96	20.01	43.97	56.00	-12.03	QP	
4	0.6460	14.37	20.02	34.39	46.00	-11.61	AVG	
5	0.8780	12.62	20.09	32.71	46.00	-13.29	AVG	
6	0.9060	27.61	20.09	47.70	56.00	-8.30	QP	
7	1.2940	21.82	20.13	41.95	56.00	-14.05	QP	
8	1.2940	18.49	20.13	38.62	46.00	-7.38	AVG	
9	1.9380	23.99	20.14	44.13	56.00	-11.87	QP	
10	1.9420	17.49	20.14	37.63	46.00	-8.37	AVG	
11	2.5860	13.95	20.15	34.10	46.00	-11.90	AVG	
12	4.8500	12.19	20.20	32.39	46.00	-13.61	AVG	

Conducted Emission Test Data

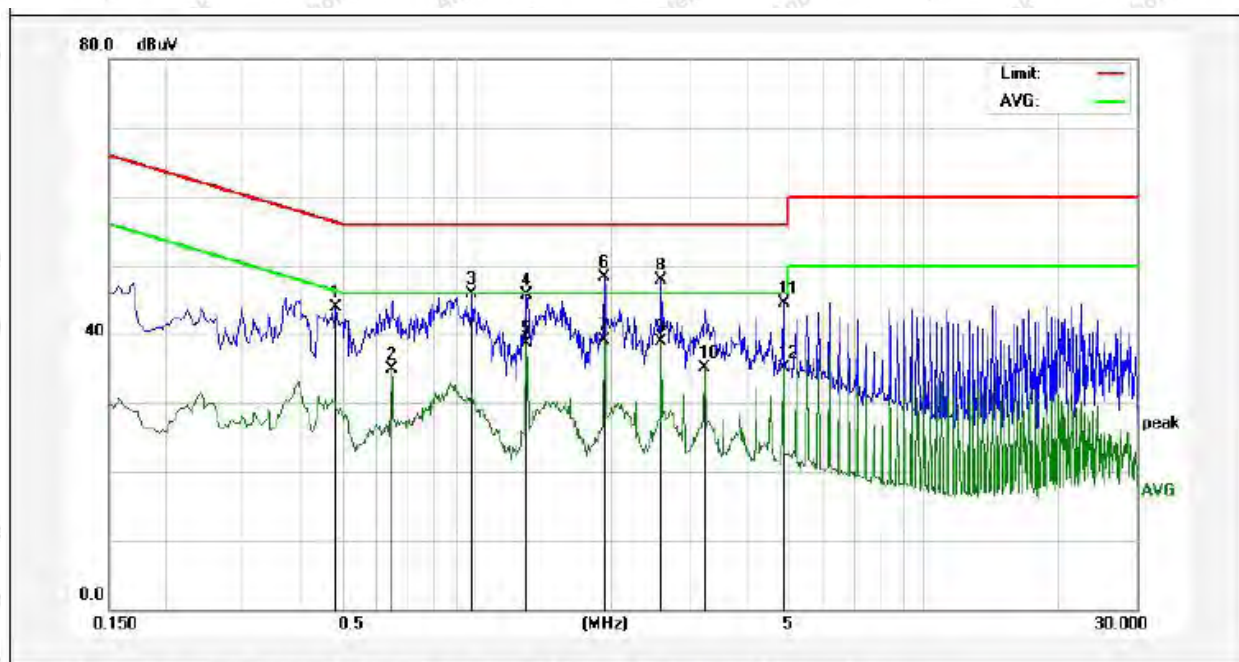
Test Site: 1# Shielded Room
 Operating Condition: 802.11g CH11
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 20.7°C Hum.: 42%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3460	27.40	19.91	47.31	59.06	-11.75	QP	
2	0.4780	26.37	19.97	46.34	56.37	-10.03	QP	
3	0.5860	25.05	20.01	45.06	56.00	-10.94	QP	
4	0.6460	13.87	20.02	33.89	46.00	-12.11	AVG	
5	0.8740	26.18	20.09	46.27	56.00	-9.73	QP	
6	1.2940	23.20	20.13	43.33	56.00	-12.67	QP	
7	1.2940	17.96	20.13	38.09	46.00	-7.91	AVG	
8	1.9380	23.99	20.14	44.13	56.00	-11.87	QP	
9	1.9380	17.14	20.14	37.28	46.00	-8.72	AVG	
10	2.5860	16.79	20.15	36.94	46.00	-9.06	AVG	
11	3.2340	12.90	20.16	33.06	46.00	-12.94	AVG	
12	4.8500	12.87	20.20	33.07	46.00	-12.93	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11g CH11
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 20.7°C Hum.: 42%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4860	23.98	19.97	43.95	56.24	-12.29	QP	
2	0.6460	14.96	20.02	34.98	46.00	-11.02	AVG	
3	0.9740	25.75	20.11	45.86	56.00	-10.14	QP	
4	1.2940	25.57	20.13	45.70	56.00	-10.30	QP	
5	1.2940	18.63	20.13	38.76	46.00	-7.24	AVG	
6	1.9380	28.26	20.14	48.40	56.00	-7.60	QP	
7	1.9380	19.05	20.14	39.19	46.00	-6.81	AVG	
8	2.5860	27.84	20.15	47.99	56.00	-8.01	QP	
9	2.5860	18.81	20.15	38.96	46.00	-7.04	AVG	
10	3.2340	14.94	20.16	35.10	46.00	-10.90	AVG	
11	4.8500	24.29	20.20	44.49	56.00	-11.51	QP	
12	4.8500	15.00	20.20	35.20	46.00	-10.80	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

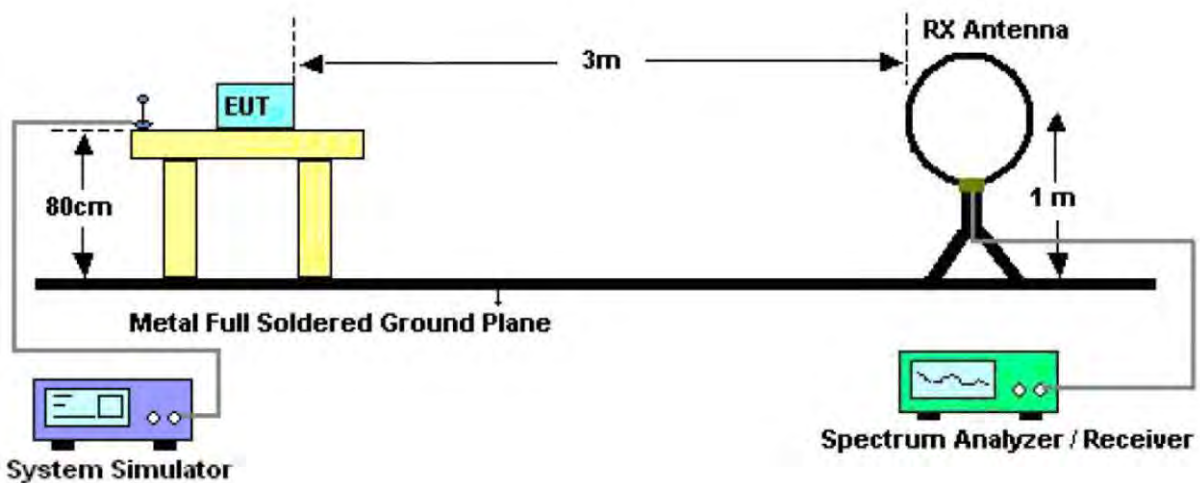


Figure 1. Below 30MHz

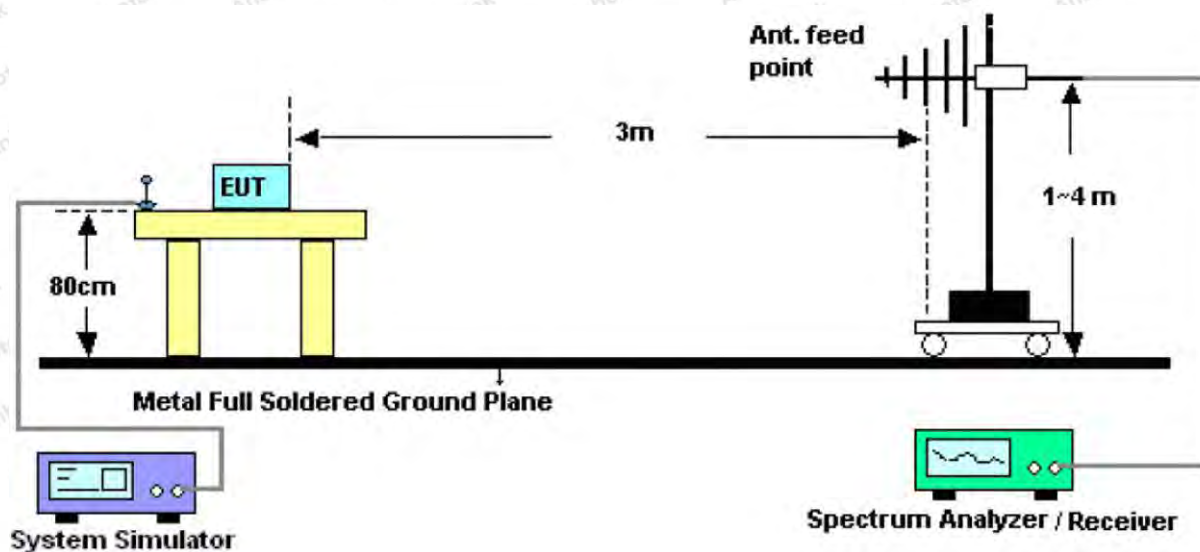


Figure 2. 30MHz to 1GHz

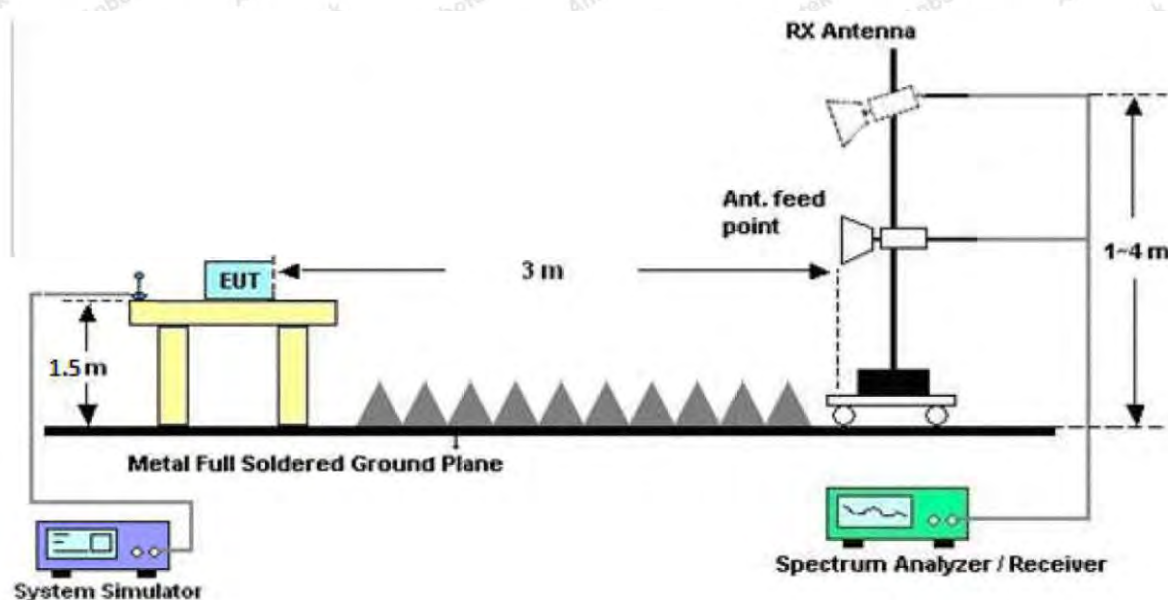


Figure 3. Above 1 GHz

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 802.11g CH11 which is the worst case, only the worst case is recorded in the report.

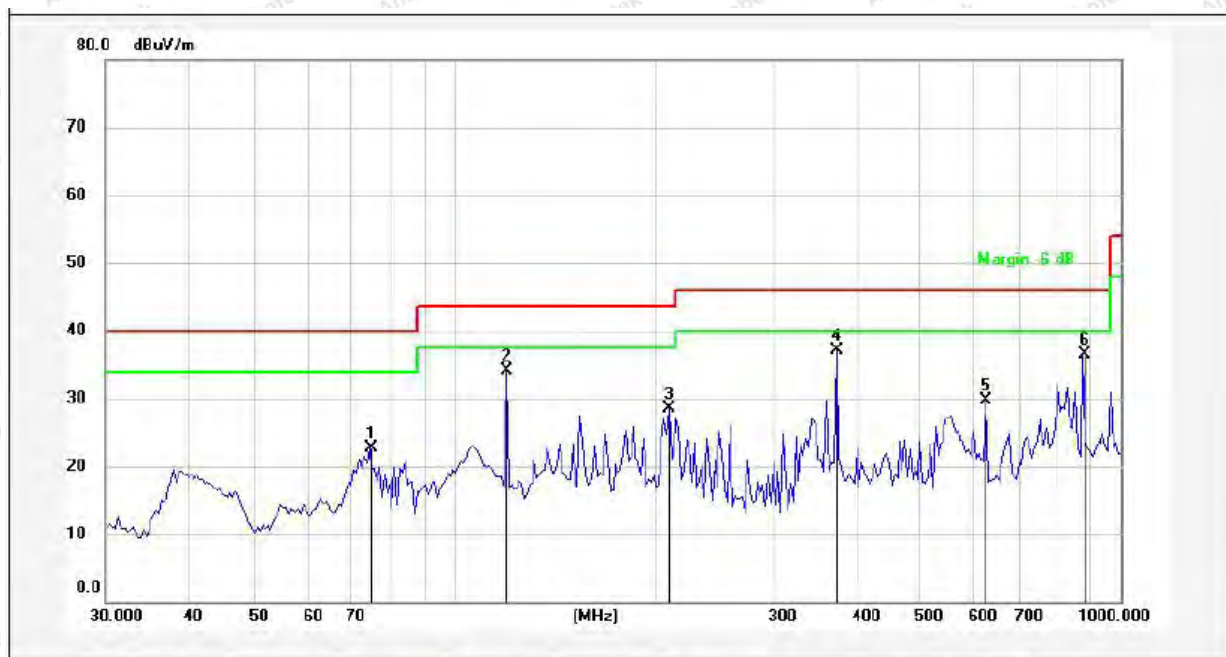


Test Results (30~1000MHz)

Test Mode: 802.11g CH11

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.1°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	74.6569	43.91	-21.16	22.75	40.00	-17.25	peak			
2	119.8556	52.39	-18.25	34.14	43.50	-9.36	peak			
3	210.0482	45.97	-17.47	28.50	43.50	-15.00	peak			
4	374.6225	52.33	-15.29	37.04	46.00	-8.96	peak			
5	628.3745	41.70	-11.90	29.80	46.00	-16.20	peak			
6	876.7829	44.42	-7.90	36.52	46.00	-9.48	peak			

Report No.: 18220WC10031301

FCC ID: 2AWS-D-V3W

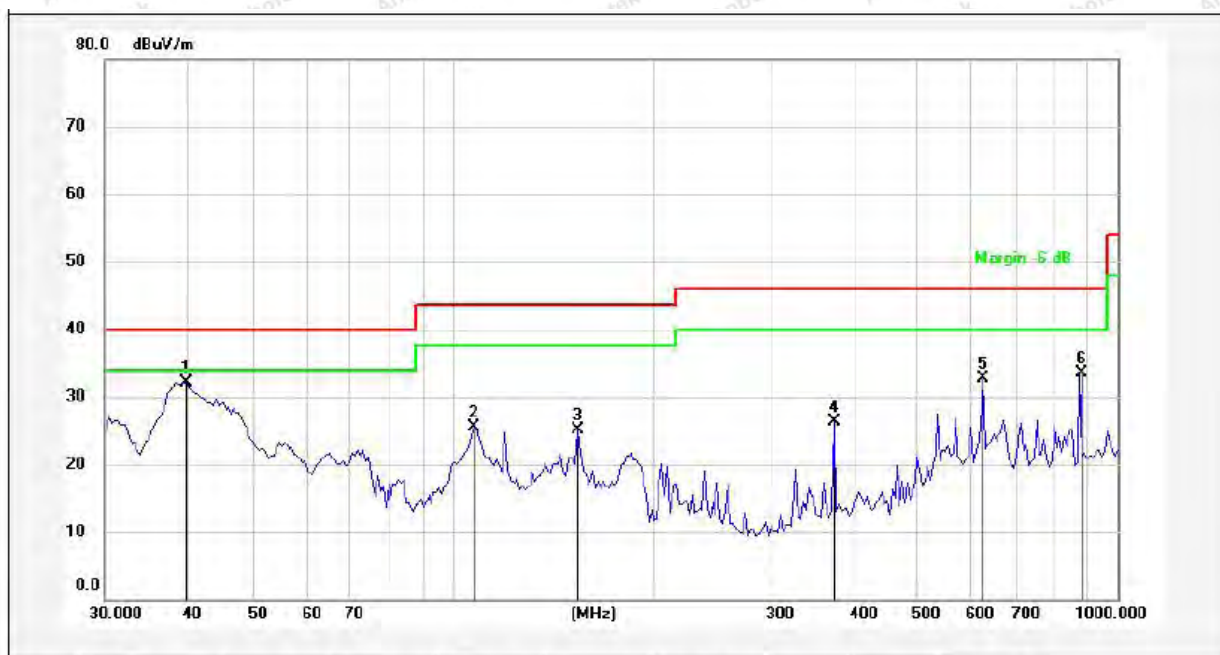
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Test Results (30~1000MHz)

Test Mode: 802.11g CH11

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.1°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.3681	47.90	-15.73	32.17	40.00	-7.83	peak			
2	107.8877	41.81	-16.37	25.44	43.50	-18.06	peak			
3	154.5493	45.18	-20.14	25.04	43.50	-18.46	peak			
4	374.6225	41.67	-15.29	26.38	46.00	-19.62	peak			
5	628.3745	44.70	-11.90	32.80	46.00	-13.20	peak			
6	876.7829	41.41	-7.90	33.51	46.00	-12.49	peak			



Test Results (Above 1000MHz)

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.
4824.00	38.96	34.13	6.61	34.09	45.61	74.00	-28.39	V
7236.00	33.38	37.14	7.74	34.51	43.75	74.00	-30.25	V
9648.00	32.11	39.35	9.26	34.80	45.92	74.00	-28.08	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4824.00	37.84	34.13	6.61	34.09	44.49	74.00	-29.51	H
7236.00	33.23	37.14	7.74	34.51	43.60	74.00	-30.40	H
9648.00	31.74	39.35	9.26	34.80	45.55	74.00	-28.45	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	28.15	34.13	6.61	34.09	34.80	54.00	-19.20	V
7236.00	22.27	37.14	7.74	34.51	32.64	54.00	-21.36	V
9648.00	22.48	39.35	9.26	34.80	36.29	54.00	-17.71	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4824.00	27.45	34.13	6.61	34.09	34.10	54.00	-19.90	H
7236.00	21.84	37.14	7.74	34.51	32.21	54.00	-21.79	H
9648.00	21.51	39.35	9.26	34.80	35.32	54.00	-18.68	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H



Test Results (Above 1000MHz)

Test Mode: 802.11g 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	38.25	34.13	6.61	34.09	44.90	74.00	-29.10	V
7311.00	33.59	37.14	7.74	34.51	43.96	74.00	-30.04	V
9748.00	33.24	39.35	9.26	34.80	47.05	74.00	-26.95	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	38.90	34.13	6.61	34.09	45.55	74.00	-28.45	H
7311.00	32.32	37.14	7.74	34.51	42.69	74.00	-31.31	H
9748.00	33.16	39.35	9.26	34.80	46.97	74.00	-27.03	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	29.19	34.13	6.61	34.09	35.84	54.00	-18.16	V
7311.00	21.93	37.14	7.74	34.51	32.30	54.00	-21.70	V
9748.00	22.51	39.35	9.26	34.80	36.32	54.00	-17.68	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	29.07	34.13	6.61	34.09	35.72	54.00	-18.28	H
7311.00	21.43	37.14	7.74	34.51	31.80	54.00	-22.20	H
9748.00	22.89	39.35	9.26	34.80	36.70	54.00	-17.30	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H



Test Results (Above 1000MHz)

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.
4924.00	42.98	34.57	6.74	34.09	50.20	74.00	-23.80	V
7386.00	33.77	37.29	7.80	34.55	44.31	74.00	-29.69	V
9848.00	36.17	39.55	9.41	34.81	50.32	74.00	-23.68	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4924.00	42.59	34.57	6.74	34.09	49.81	74.00	-24.19	H
7386.00	32.82	37.29	7.80	34.55	43.36	74.00	-30.64	H
9848.00	32.41	39.55	9.41	34.81	46.56	74.00	-27.44	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.
4904.00	33.77	34.48	6.71	34.09	40.87	54.00	-13.13	V
7356.00	23.54	37.26	7.79	34.54	34.05	54.00	-19.95	V
9808.00	24.58	39.51	9.38	34.81	38.66	54.00	-15.34	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4904.00	32.81	34.48	6.71	34.09	39.91	54.00	-14.09	H
7356.00	22.08	37.26	7.79	34.54	32.59	54.00	-21.41	H
9808.00	21.58	39.51	9.38	34.81	35.66	54.00	-18.34	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 802.11g 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.



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	49.98	29.15	3.41	34.01	48.53	74.00	-25.47	H
2400.00	58.44	29.16	3.43	34.01	57.02	74.00	-16.98	H
2390.00	51.55	29.15	3.41	34.01	50.10	74.00	-23.90	V
2400.00	59.78	29.16	3.43	34.01	58.36	74.00	-15.64	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	37.22	29.15	3.41	34.01	35.77	54.00	-18.23	H
2400.00	45.34	29.16	3.43	34.01	43.92	54.00	-10.08	H
2390.00	38.91	29.15	3.41	34.01	37.46	54.00	-16.54	V
2400.00	46.33	29.16	3.43	34.01	44.91	54.00	-9.09	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	49.92	29.28	3.53	34.03	48.70	74.00	-25.30	H
2500.00	46.28	29.30	3.56	34.03	45.11	74.00	-28.89	H
2483.50	51.84	29.28	3.53	34.03	50.62	74.00	-23.38	V
2500.00	48.48	29.30	3.56	34.03	47.31	74.00	-26.69	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	37.34	29.28	3.53	34.03	36.12	54.00	-17.88	H
2500.00	33.76	29.30	3.56	34.03	32.59	54.00	-21.41	H
2483.50	39.13	29.28	3.53	34.03	37.91	54.00	-16.09	V
2500.00	35.57	29.30	3.56	34.03	34.40	54.00	-19.60	V

Remark:

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

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 Hotline
400-003-0500
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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	50.61	27.53	5.47	33.92	49.69	74.00	-24.31	H
2400.00	59.27	27.55	5.49	29.93	62.38	74.00	-11.62	H
2390.00	52.22	27.53	5.47	33.92	51.30	74.00	-22.70	V
2400.00	60.78	27.55	5.49	29.93	63.89	74.00	-10.11	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	37.67	27.53	5.47	33.92	36.75	54.00	-17.25	H
2400.00	45.85	27.55	5.49	29.93	48.96	54.00	-5.04	H
2390.00	39.40	27.53	5.47	33.92	38.48	54.00	-15.52	V
2400.00	46.89	27.55	5.49	29.93	50.00	54.00	-4.00	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	50.82	29.28	3.53	34.03	49.60	74.00	-24.40	H
2500.00	46.98	29.30	3.56	34.03	45.81	74.00	-28.19	H
2483.50	52.86	29.28	3.53	34.03	51.64	74.00	-22.36	V
2500.00	49.29	29.30	3.56	34.03	48.12	74.00	-25.88	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	37.87	29.28	3.53	34.03	36.65	54.00	-17.35	H
2500.00	34.18	29.30	3.56	34.03	33.01	54.00	-20.99	H
2483.50	39.73	29.28	3.53	34.03	38.51	54.00	-15.49	V
2500.00	36.02	29.30	3.56	34.03	34.85	54.00	-19.15	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	50.42	27.53	5.47	33.92	49.50	74.00	-24.50	H
2400.00	59.02	27.55	5.49	29.93	62.13	74.00	-11.87	H
2390.00	52.01	27.53	5.47	33.92	51.09	74.00	-22.91	V
2400.00	60.48	27.55	5.49	29.93	63.59	74.00	-10.41	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	37.53	27.53	5.47	33.92	36.61	54.00	-17.39	H
2400.00	45.69	27.55	5.49	29.93	48.80	54.00	-5.20	H
2390.00	39.25	27.53	5.47	33.92	38.33	54.00	-15.67	V
2400.00	46.72	27.55	5.49	29.93	49.83	54.00	-4.17	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	50.55	29.28	3.53	34.03	49.33	74.00	-24.67	H
2500.00	46.77	29.30	3.56	34.03	45.60	74.00	-28.40	H
2483.50	52.55	29.28	3.53	34.03	51.33	74.00	-22.67	V
2500.00	49.05	29.30	3.56	34.03	47.88	74.00	-26.12	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	37.71	29.28	3.53	34.03	36.49	54.00	-17.51	H
2500.00	34.05	29.30	3.56	34.03	32.88	54.00	-21.12	H
2483.50	39.55	29.28	3.53	34.03	38.33	54.00	-15.67	V
2500.00	35.88	29.30	3.56	34.03	34.71	54.00	-19.29	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	49.20	27.53	5.47	33.92	48.28	74.00	-25.72	H
2400.00	57.39	27.55	5.49	29.93	60.50	74.00	-13.50	H
2390.00	50.71	27.53	5.47	33.92	49.79	74.00	-24.21	V
2400.00	58.53	27.55	5.49	29.93	61.64	74.00	-12.36	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.
2390.00	36.67	27.53	5.47	33.92	35.75	54.00	-18.25	H
2400.00	44.69	27.55	5.49	29.93	47.80	54.00	-6.20	H
2390.00	38.29	27.53	5.47	33.92	37.37	54.00	-16.63	V
2400.00	45.63	27.55	5.49	29.93	48.74	54.00	-5.26	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	48.80	29.28	3.53	34.03	47.58	74.00	-26.42	H
2500.00	45.42	29.30	3.56	34.03	44.25	74.00	-29.75	H
2483.50	50.56	29.28	3.53	34.03	49.34	74.00	-24.66	V
2500.00	47.46	29.30	3.56	34.03	46.29	74.00	-27.71	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	36.66	29.28	3.53	34.03	35.44	54.00	-18.56	H
2500.00	33.23	29.30	3.56	34.03	32.06	54.00	-21.94	H
2483.50	38.39	29.28	3.53	34.03	37.17	54.00	-16.83	V
2500.00	35.01	29.30	3.56	34.03	33.84	54.00	-20.16	V

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

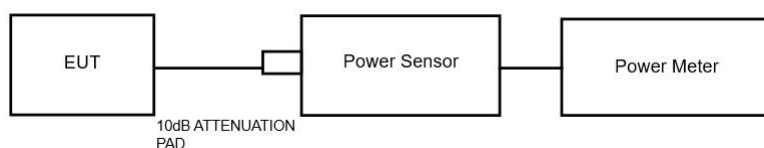


5. Maximum Peak Output Power Test

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 Voltage	:	AC 120V, 60Hz for adapter
Test Result	:	PASS

Test Mode	:	CH Low ~ CH High
Temperature	:	23.6℃
Humidity	:	54%RH



Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (PK) (dBm)	Limit dBm	Results
TX 802.11b Mode				
CH01	2412	12.54	30	PASS
CH06	2437	13.71	30	PASS
CH11	2462	13.33	30	PASS
TX 802.11g Mode				
CH01	2412	13.88	30	PASS
CH06	2437	14.64	30	PASS
CH11	2462	14.80	30	PASS
TX 802.11n(20) Mode				
CH01	2412	13.61	30	PASS
CH06	2437	14.44	30	PASS
CH11	2462	14.10	30	PASS
TX 802.11n(40) Mode				
CH03	2422	14.76	30	PASS
CH06	2437	14.35	30	PASS
CH09	2452	14.57	30	PASS

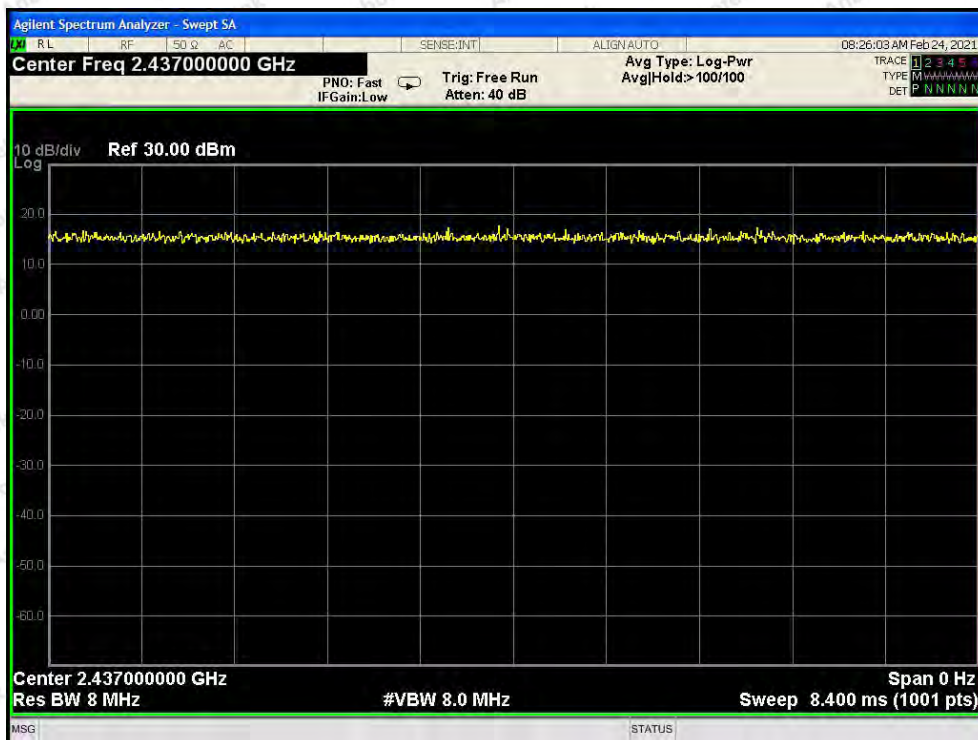
Note: For power test the duty cycle more then 98% in continuous transmitting mode.

Please see the plot of next page

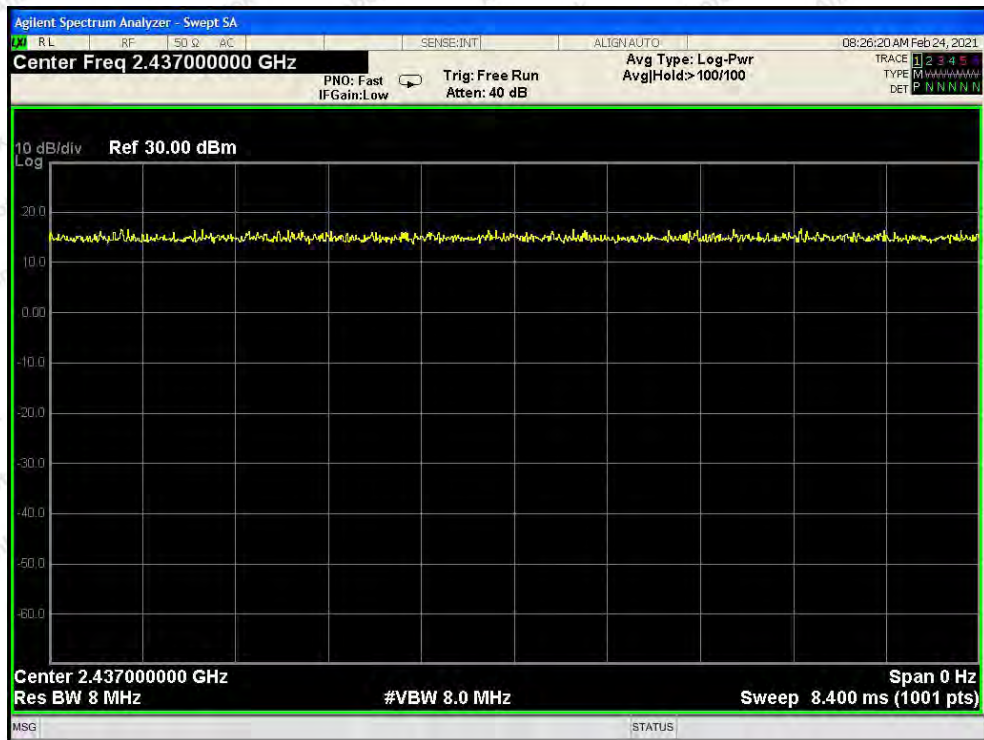
Duty Cycle



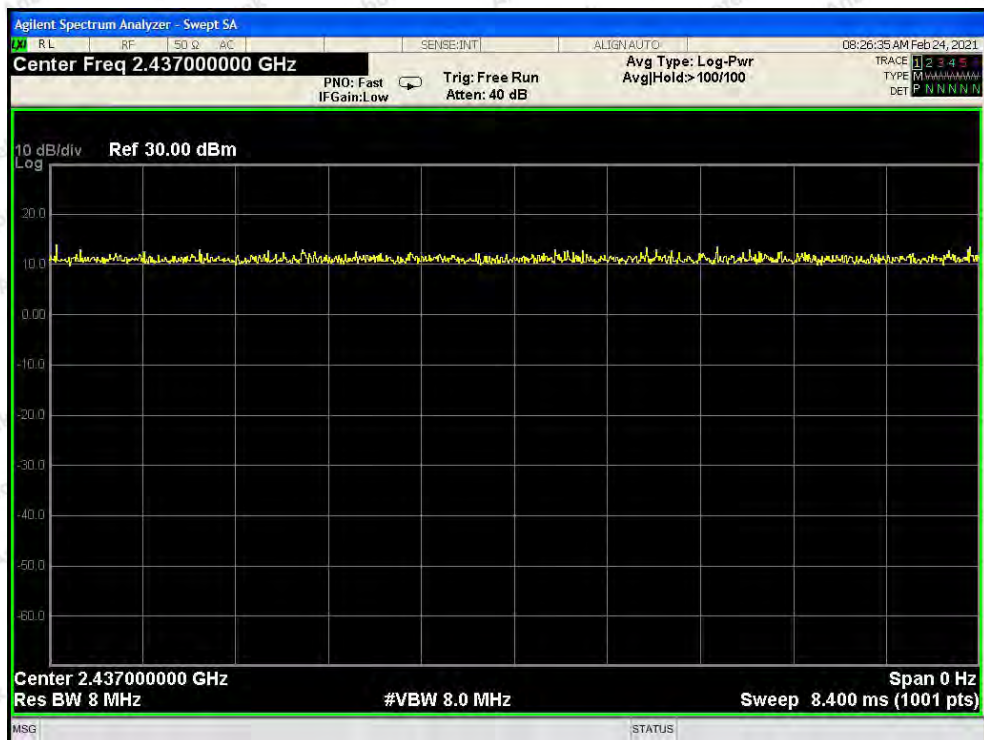
802.11b mode



802.11g mode



802.11n(HT20) mode



802.11n(HT40) mode

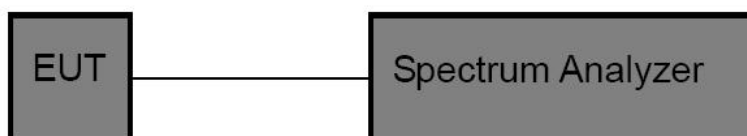


6. 6DB Occupy Bandwidth Test

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*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 : AC 120V, 60Hz for adapter

Test Result : PASS

Test Mode : CH Low ~ CH High

Temperature : 23.6℃

Humidity : 54%RH



Mode	Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
802.11b	Low	2412	10.040	>500	PASS
	Middle	2437	9.575		PASS
	High	2462	9.125		PASS
802.11g	Low	2412	15.13	>500	PASS
	Middle	2437	15.08		PASS
	High	2462	15.16		PASS
802.11n20	Low	2412	15.16	>500	PASS
	Middle	2437	15.15		PASS
	High	2462	15.97		PASS
802.11n40	Low	2422	35.22	>500	PASS
	Middle	2437	35.42		PASS
	High	2452	35.44		PASS





802.11b mode : Lowest



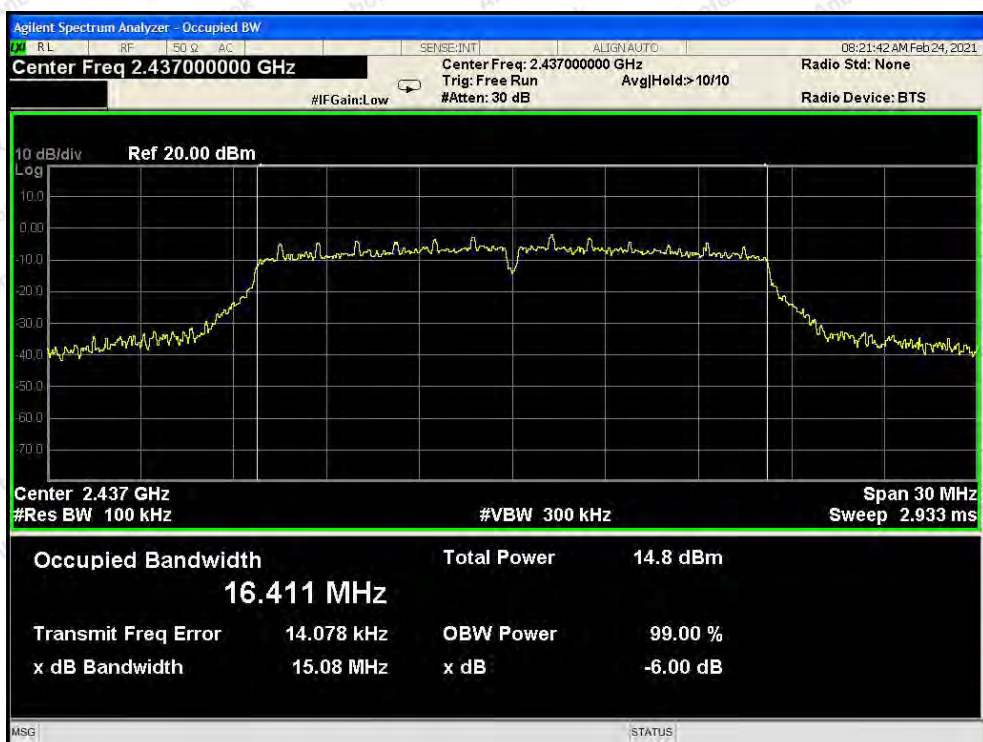
802.11b mode : Middle



802.11b mode : Highest



802.11g mode : Lowest



802.11g mode : Middle



802.11g mode : Highest



802.11n20 mode : Lowest

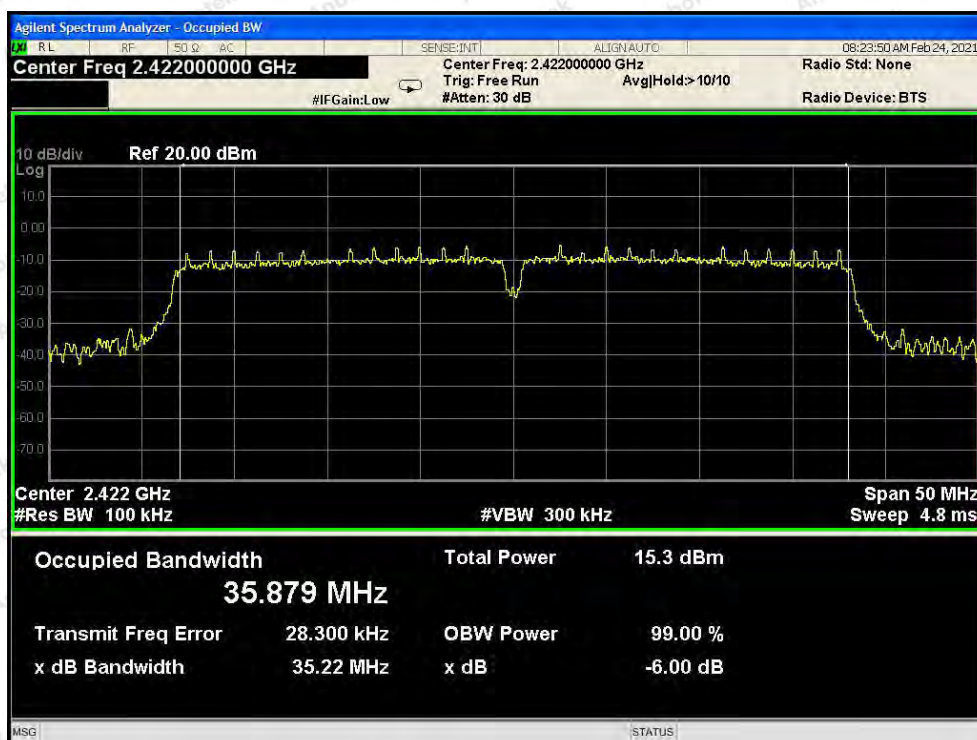


802.11n20 mode : Middle





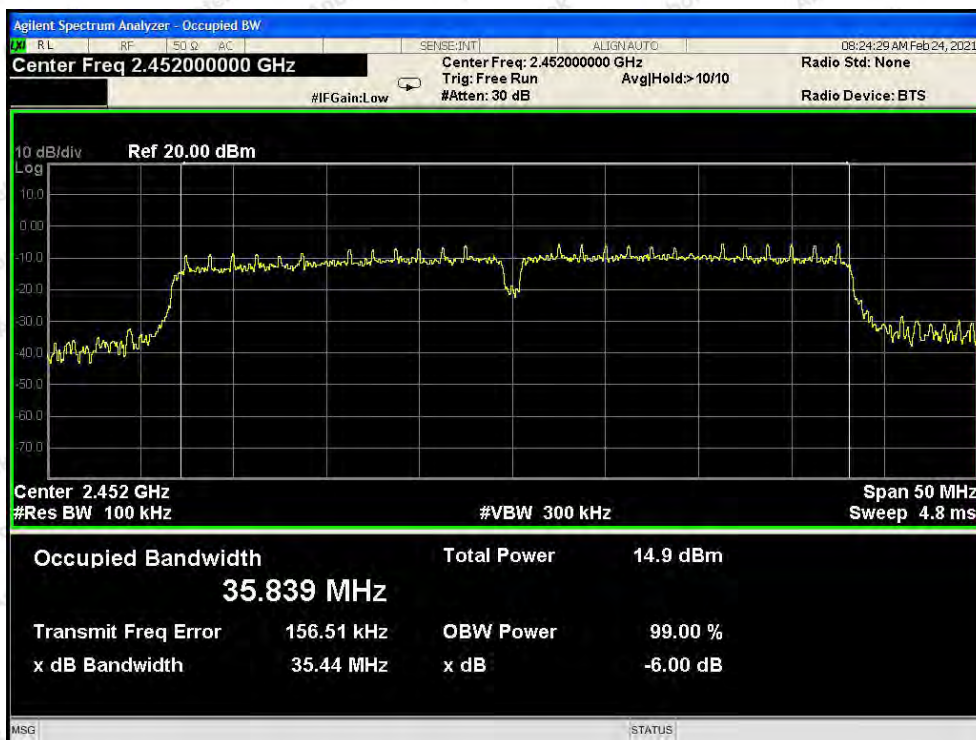
802.11n20 mode : Highest



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
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 = 1.5xDTSS 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 Voltage : AC 120V, 60Hz for adapter
 Test Result : PASS

Test Mode : CH Low ~ CH High
 Temperature : 23.6℃
 Humidity : 54%RH

Mode	Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
802.11b	Low	2412	-11.193	8.00	PASS
	Middle	2437	-11.974	8.00	PASS
	High	2462	-9.611	8.00	PASS
802.11g	Low	2412	-18.454	8.00	PASS
	Middle	2437	-15.864	8.00	PASS
	High	2462	-16.579	8.00	PASS
802.11n20	Low	2412	-18.500	8.00	PASS
	Middle	2437	-16.517	8.00	PASS
	High	2462	-17.045	8.00	PASS
802.11n40	Low	2422	-21.147	8.00	PASS
	Middle	2437	-20.916	8.00	PASS
	High	2452	-19.784	8.00	PASS



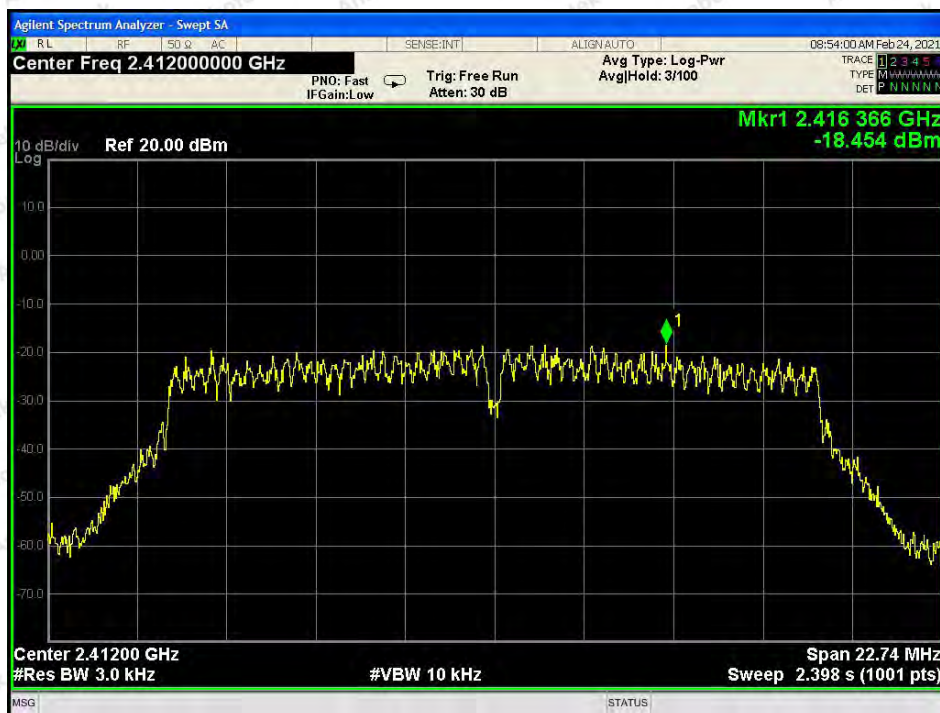
802.11b mode : Lowest



802.11b mode : Middle



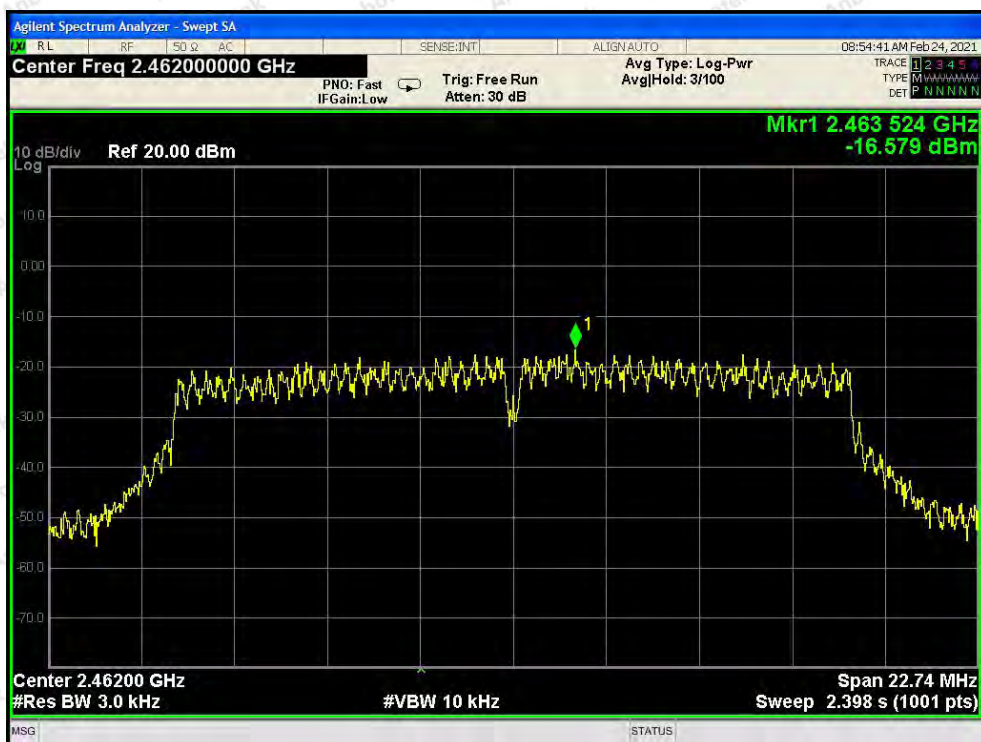
802.11b mode : Highest



802.11g mode : Lowest



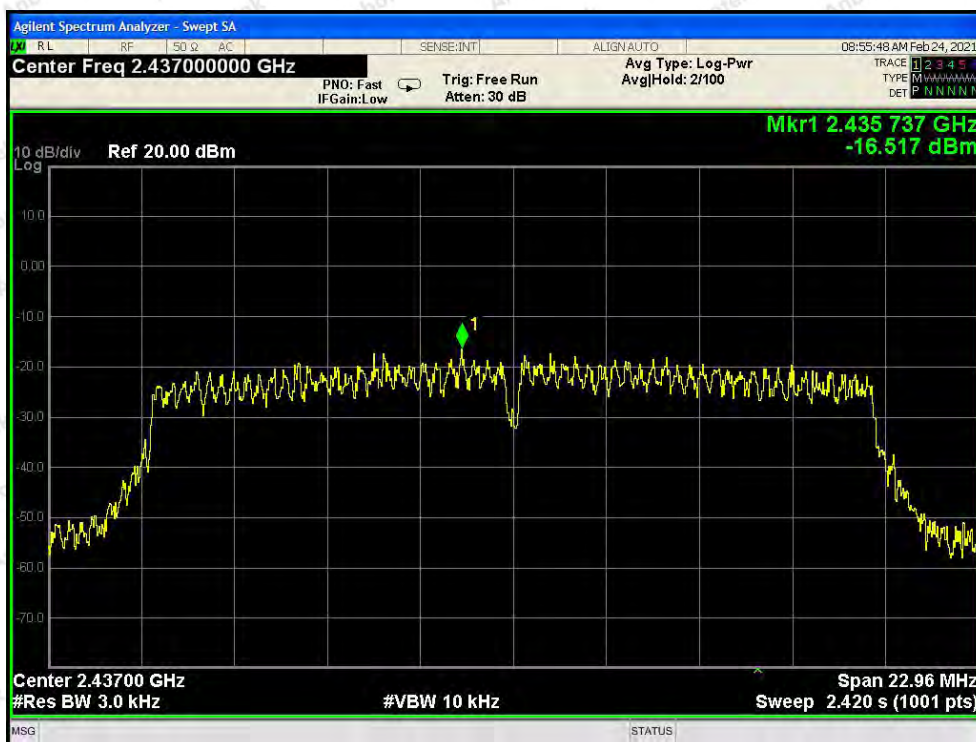
802.11g mode : Middle



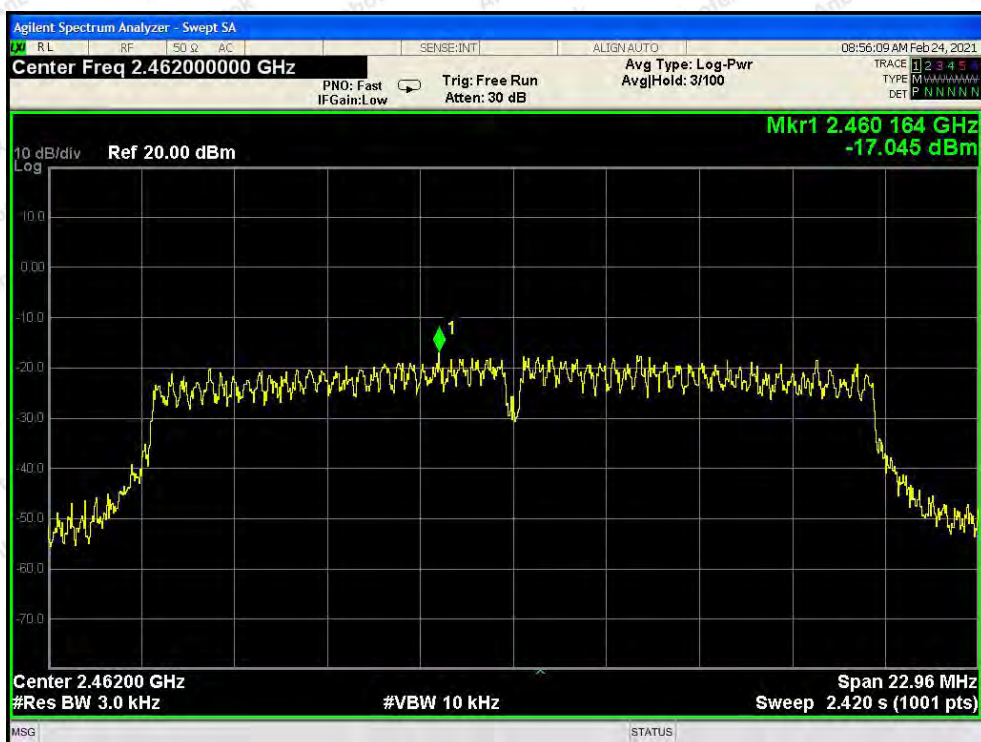
802.11g mode : Highest



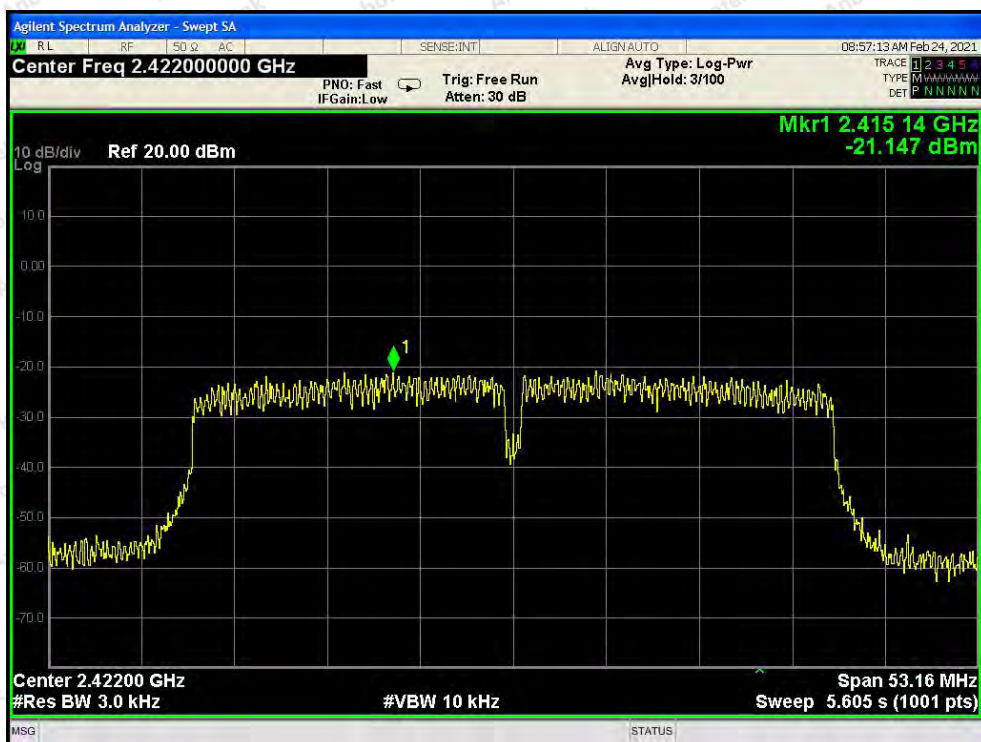
802.11n20 mode : Lowest



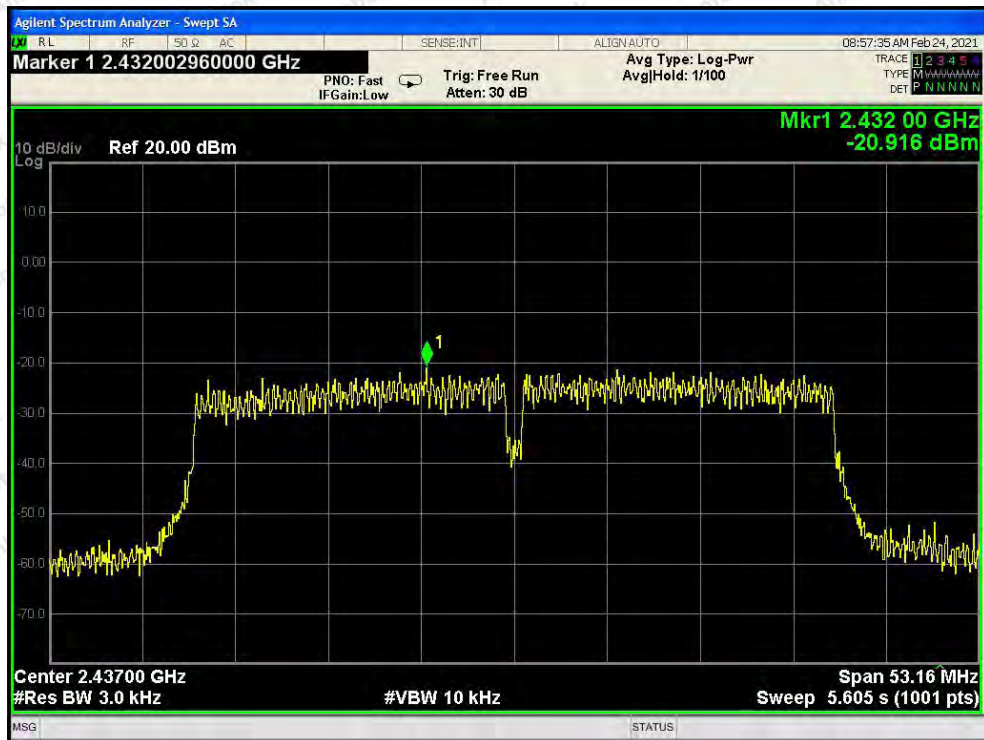
802.11n20 mode : Middle



802.11n20 mode : Highest



802.11n40 mode : Lowest



802.11n40 mode : Middle



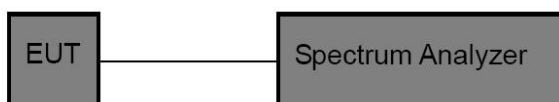
802.11n40 mode : Highest

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	: AC 120V, 60Hz for adapter
Test Result	: PASS

Test Mode	: CH Low ~ CH High
Temperature	: 23.6℃
Humidity	: 54%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



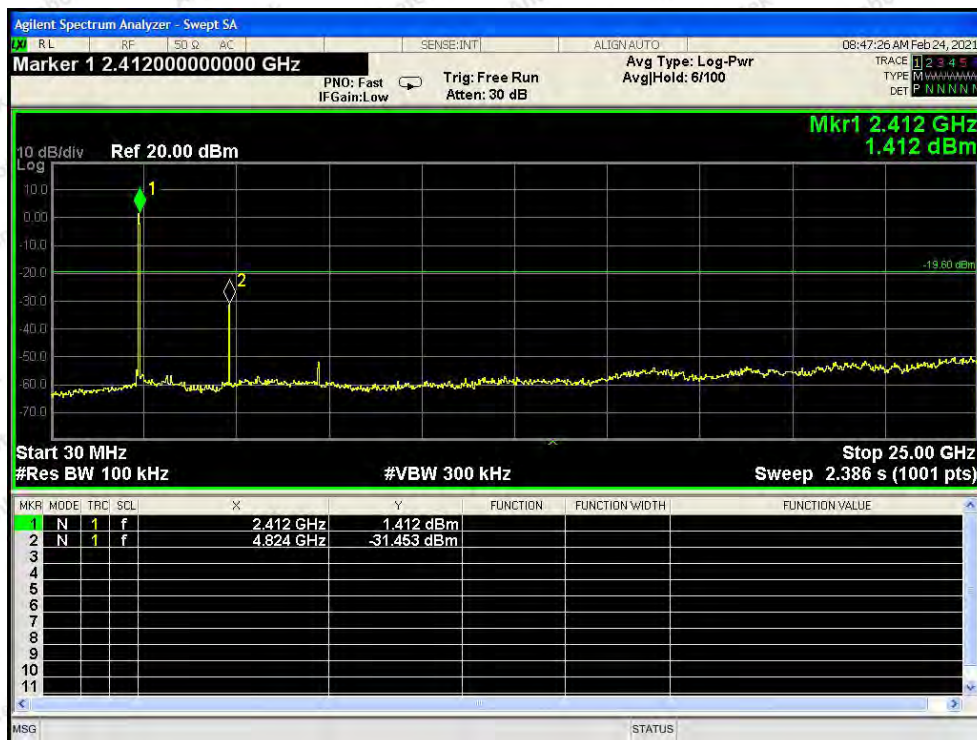
802.11n40 mode : Lowest



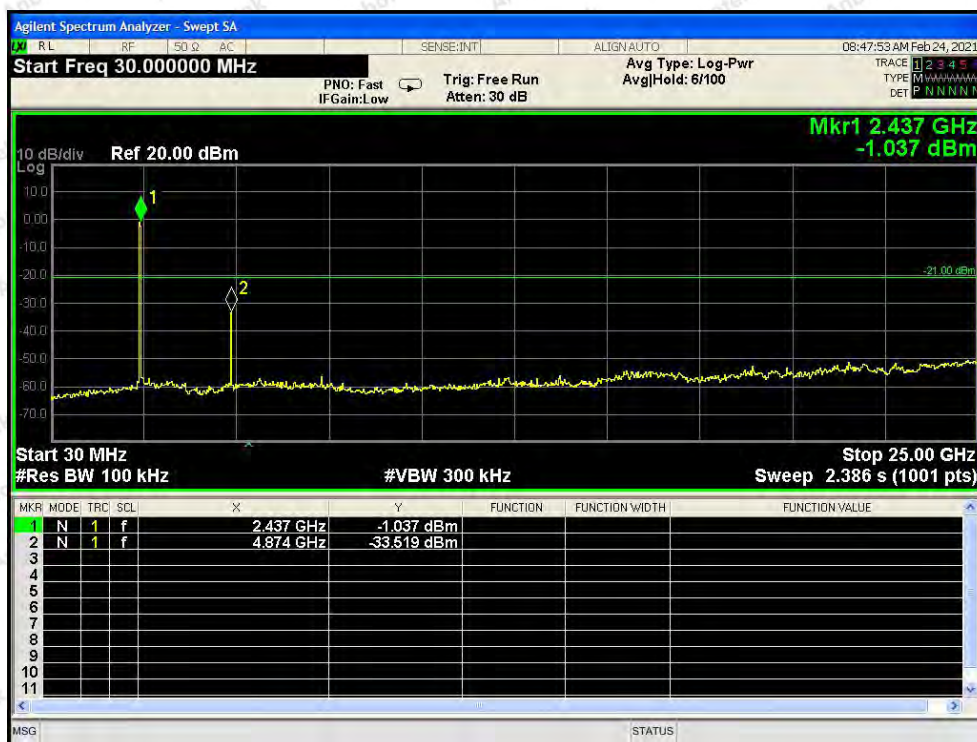
802.11n40 mode : Highest



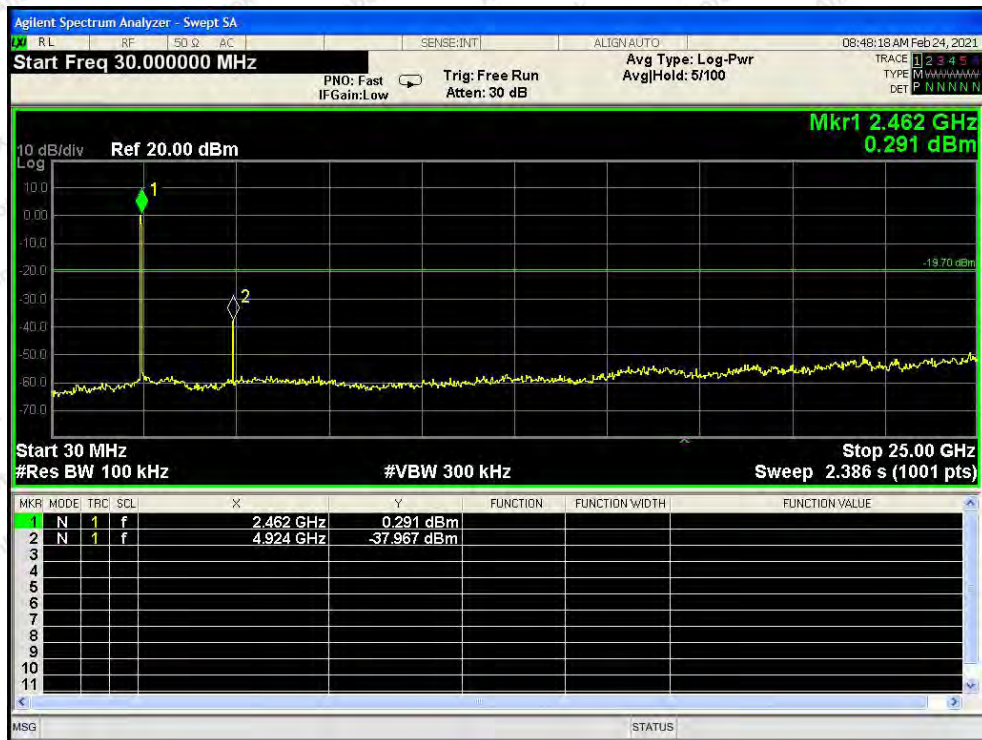
Conducted Emission Method



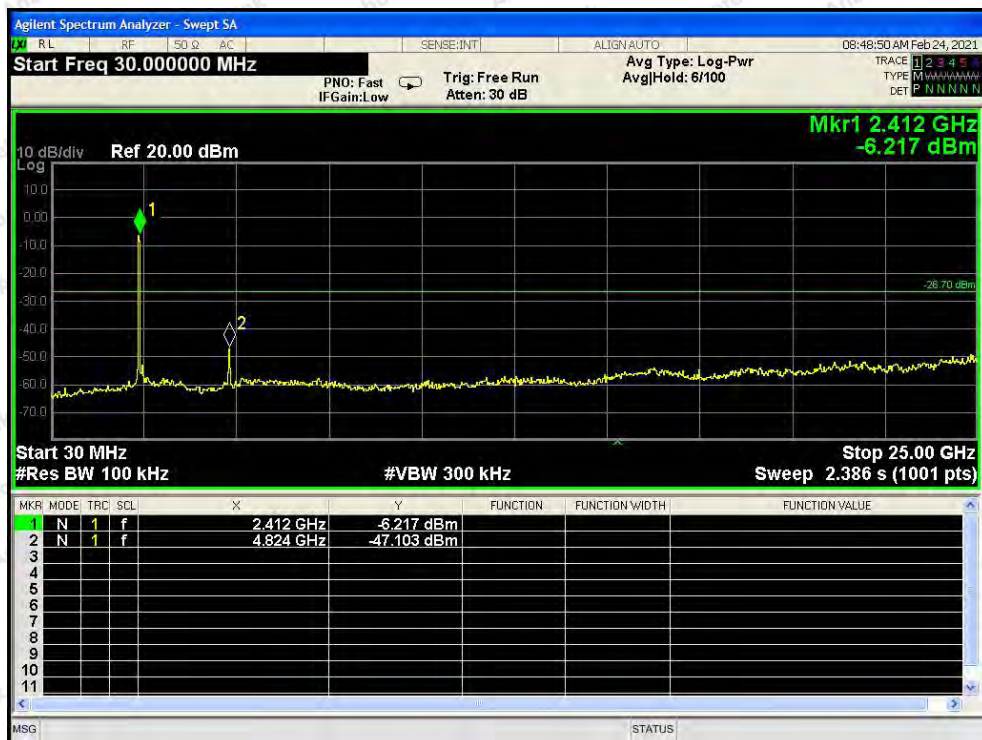
802.11b mode : Lowest



802.11b mode : Middle

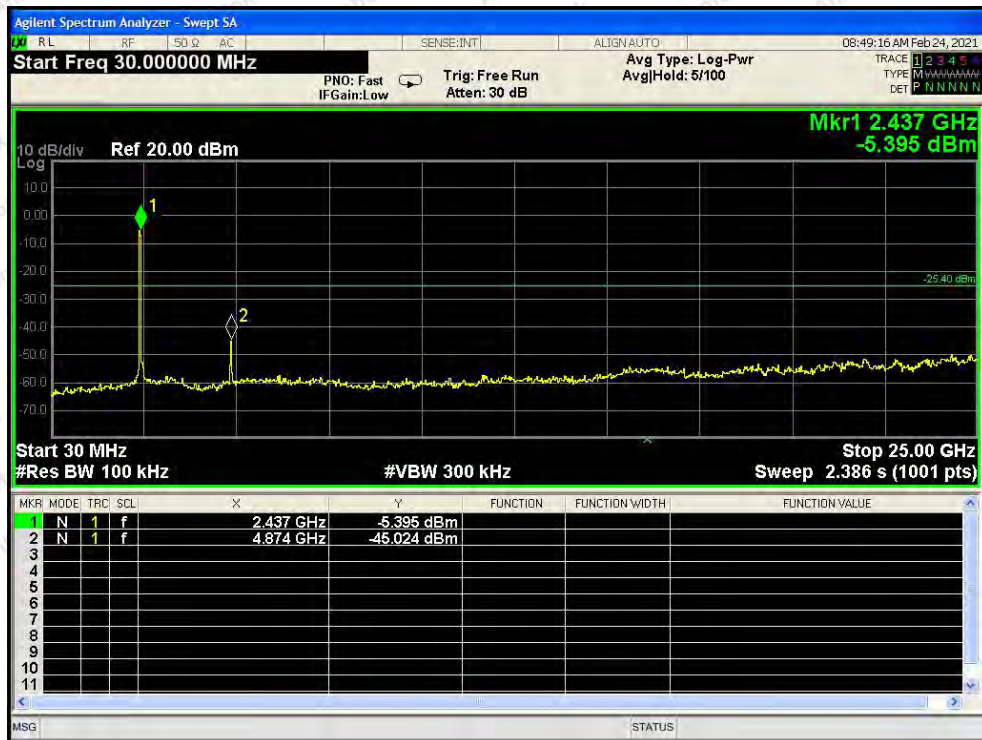


802.11b mode : Highest

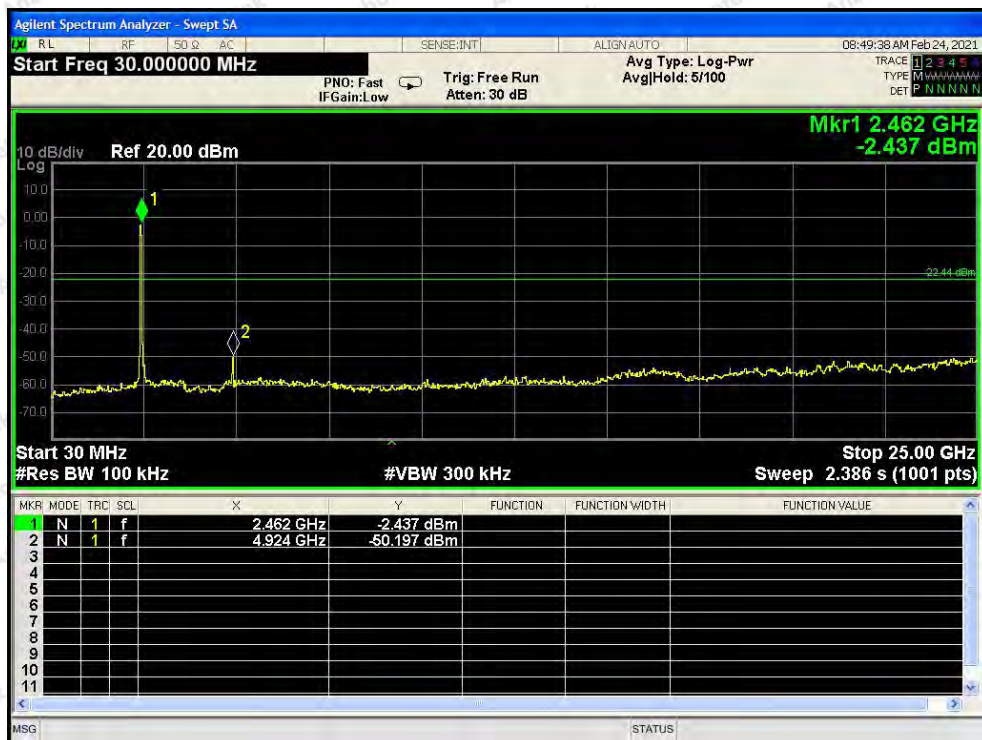


802.11g mode : Lowest



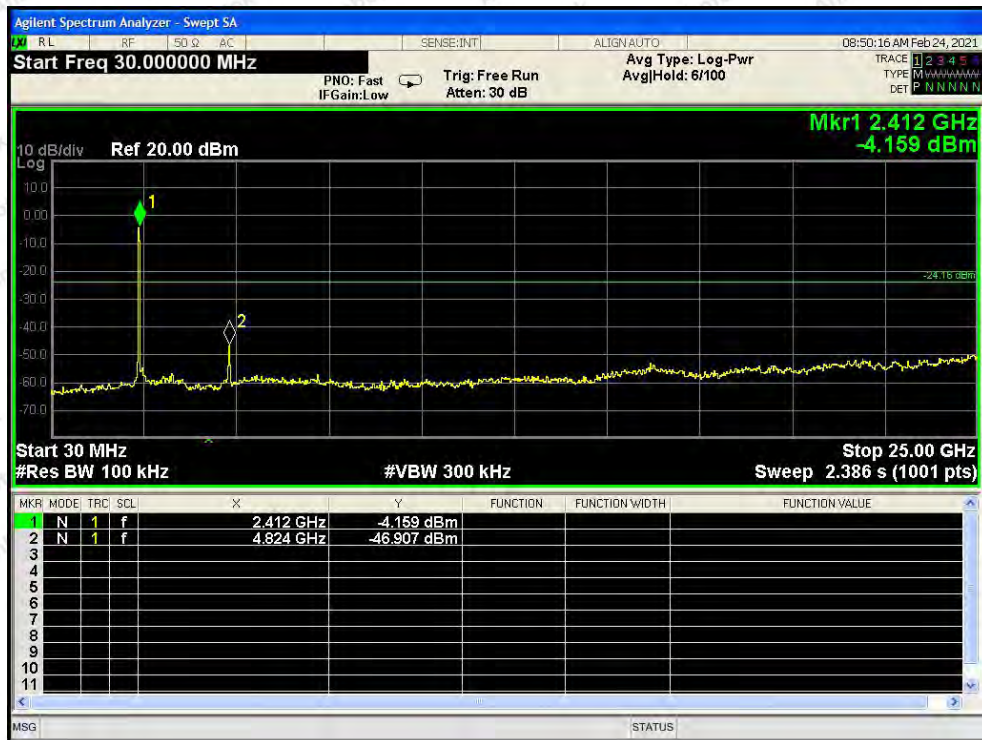


802.11g mode : Middle

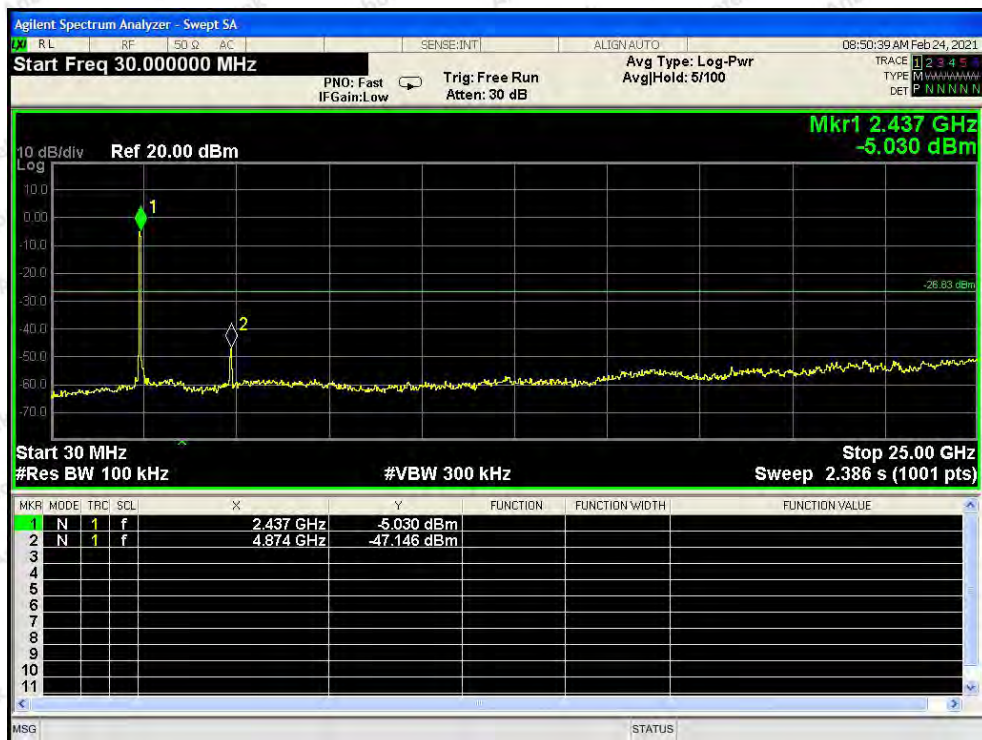


802.11g mode : Highest



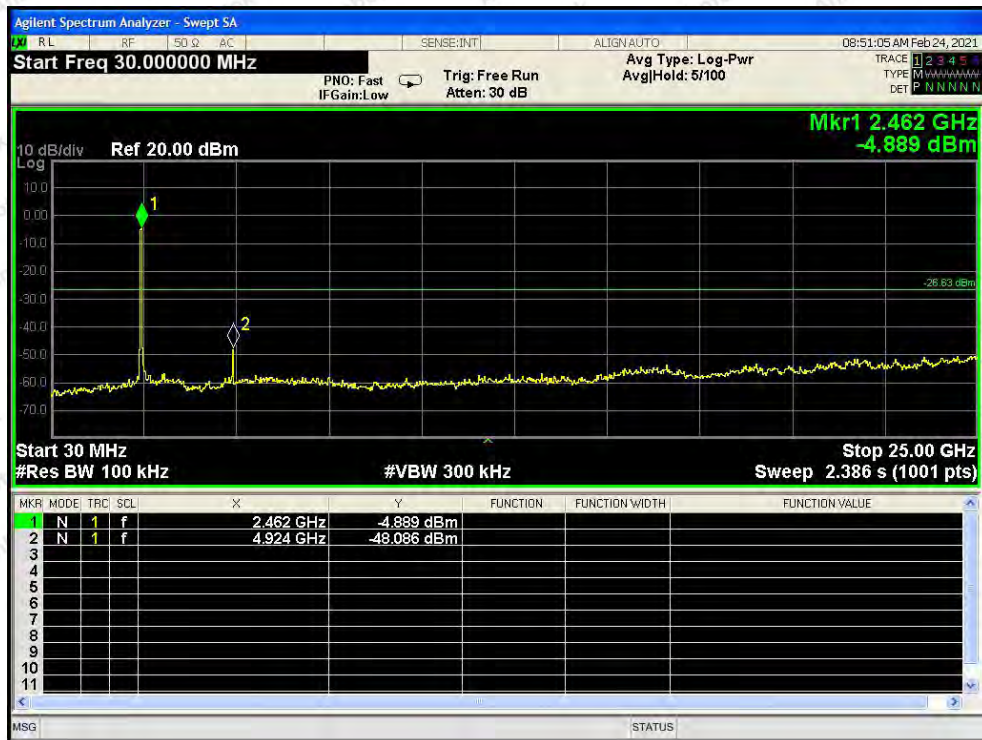


802.11n20 mode : Lowest

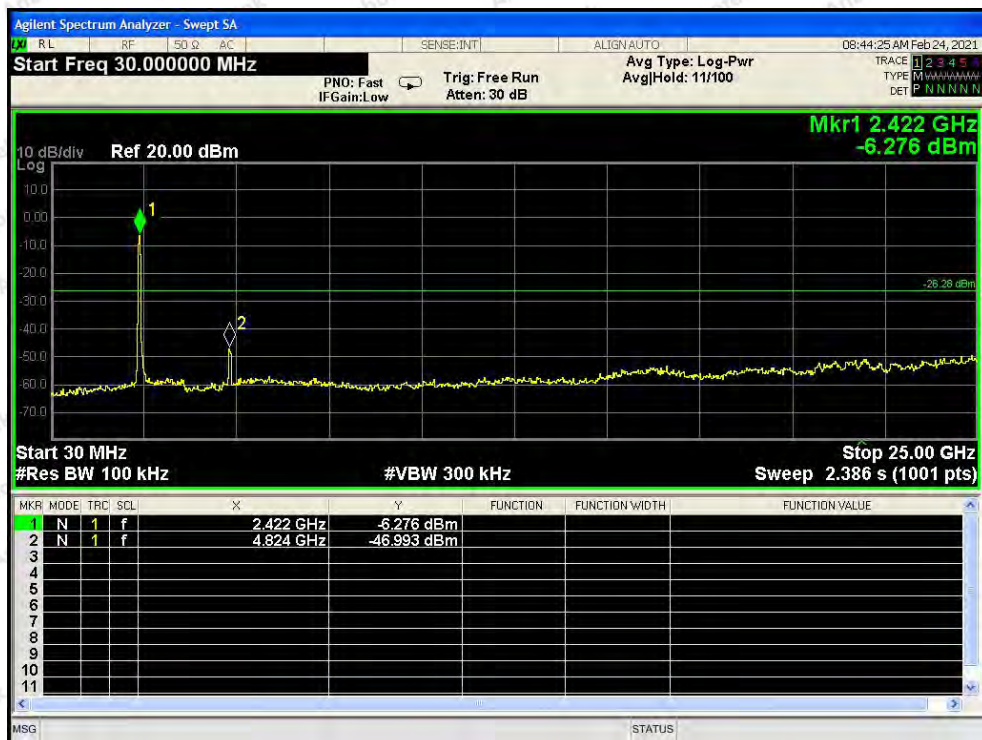


802.11n20 mode : Middle



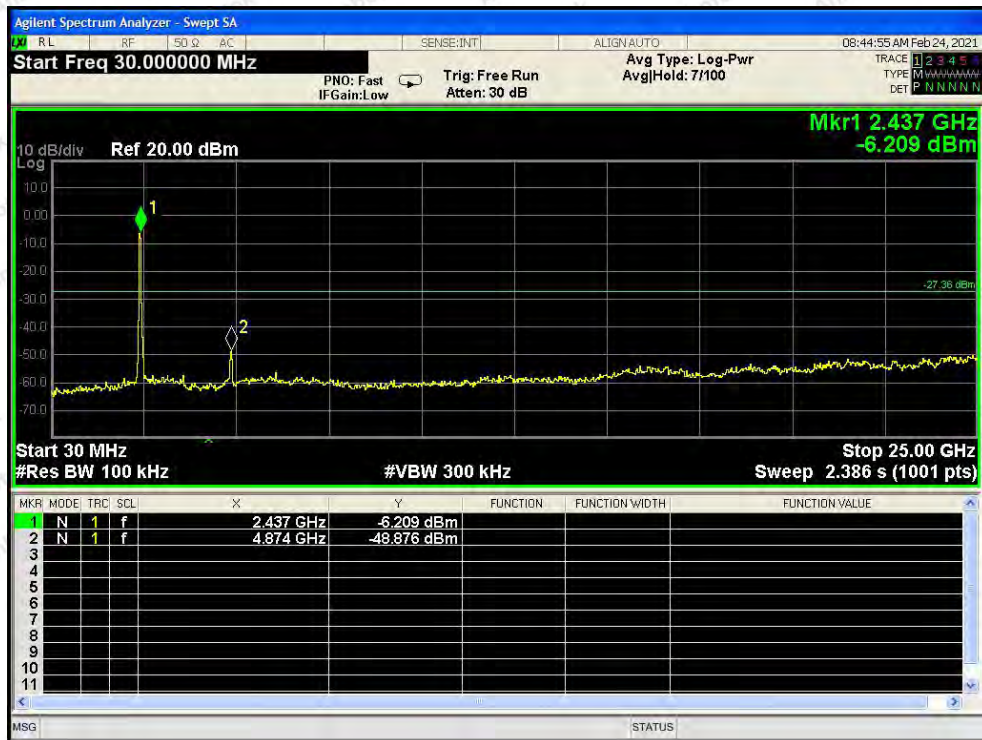


802.11n20 mode : Highest

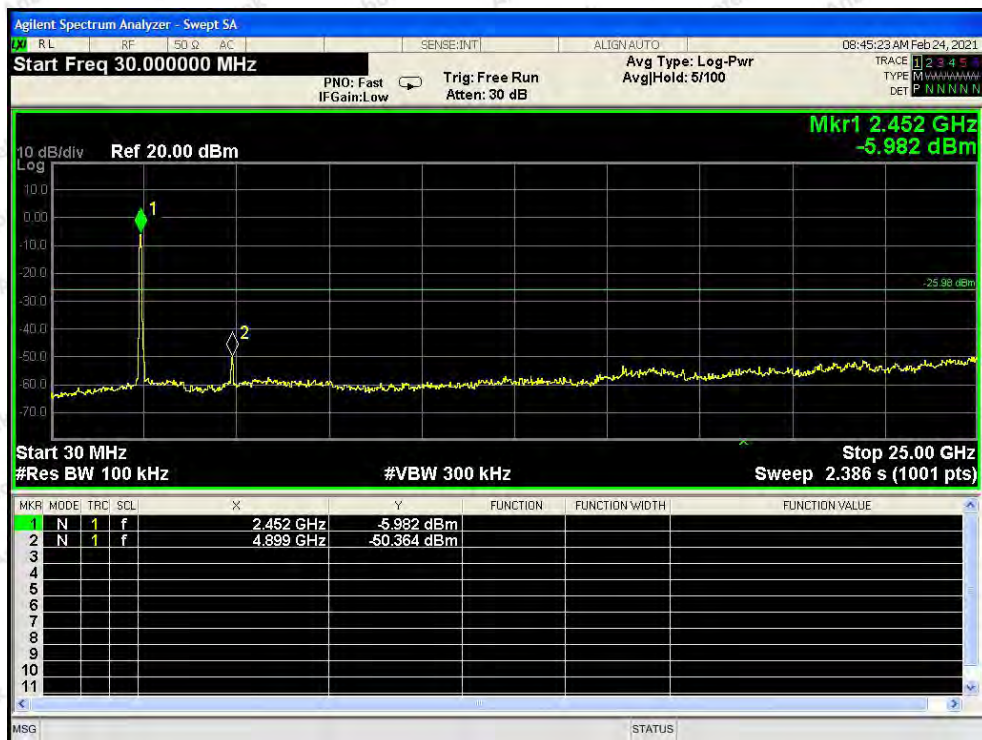


802.11n40 mode : Lowest





802.11n40 mode : Middle



802.11n40 mode : Highest



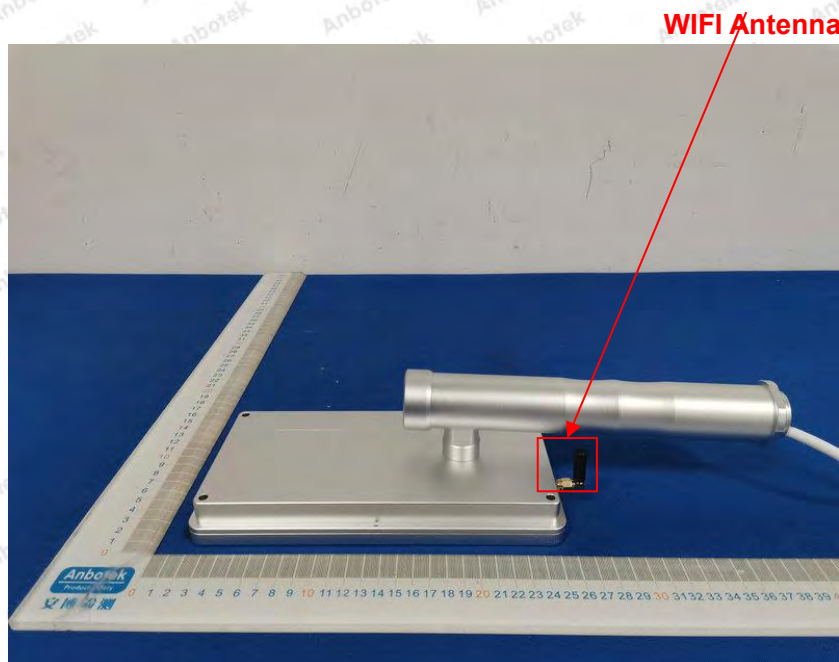
9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	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 Cylindrical Antenna which permanently attached, and the best case gain of the antenna is 2.5 dBi It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

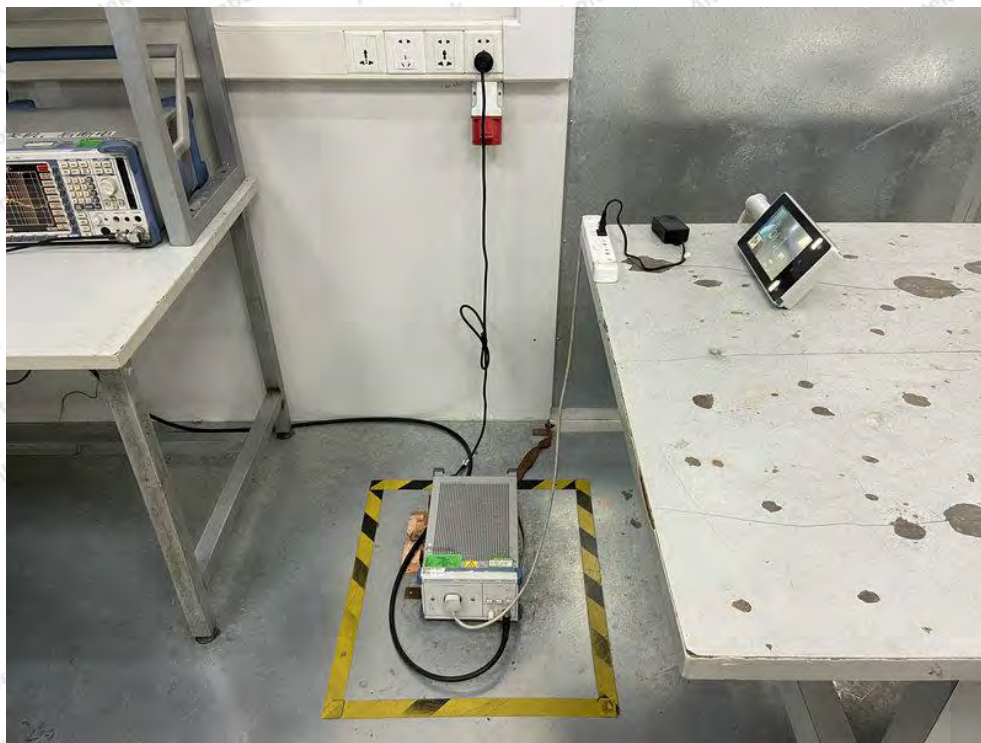
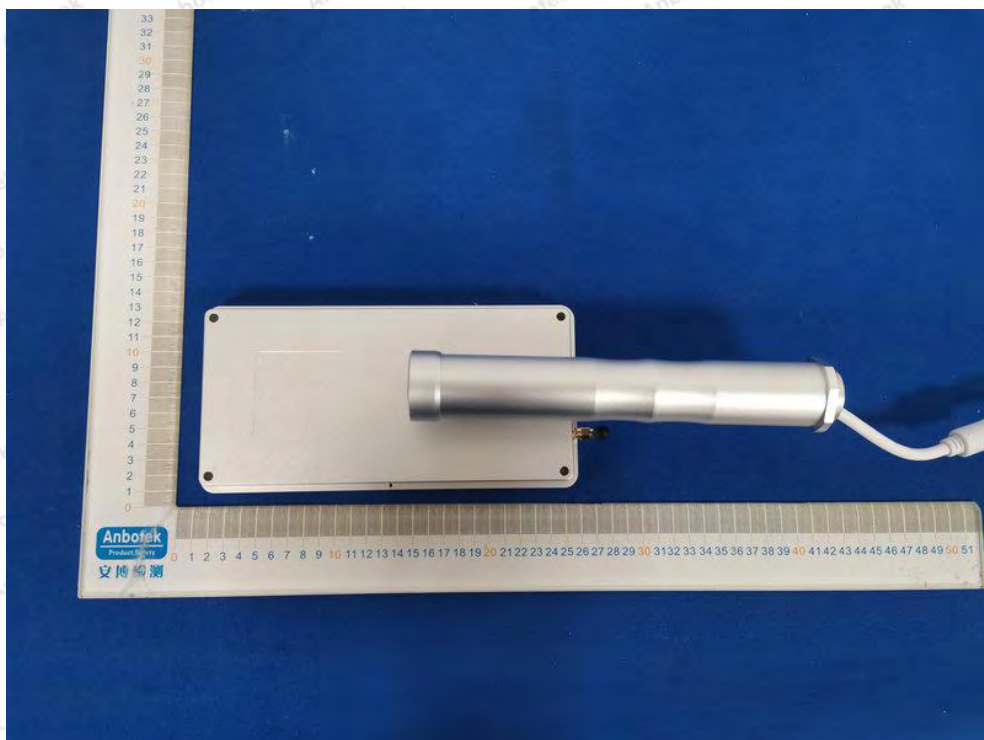
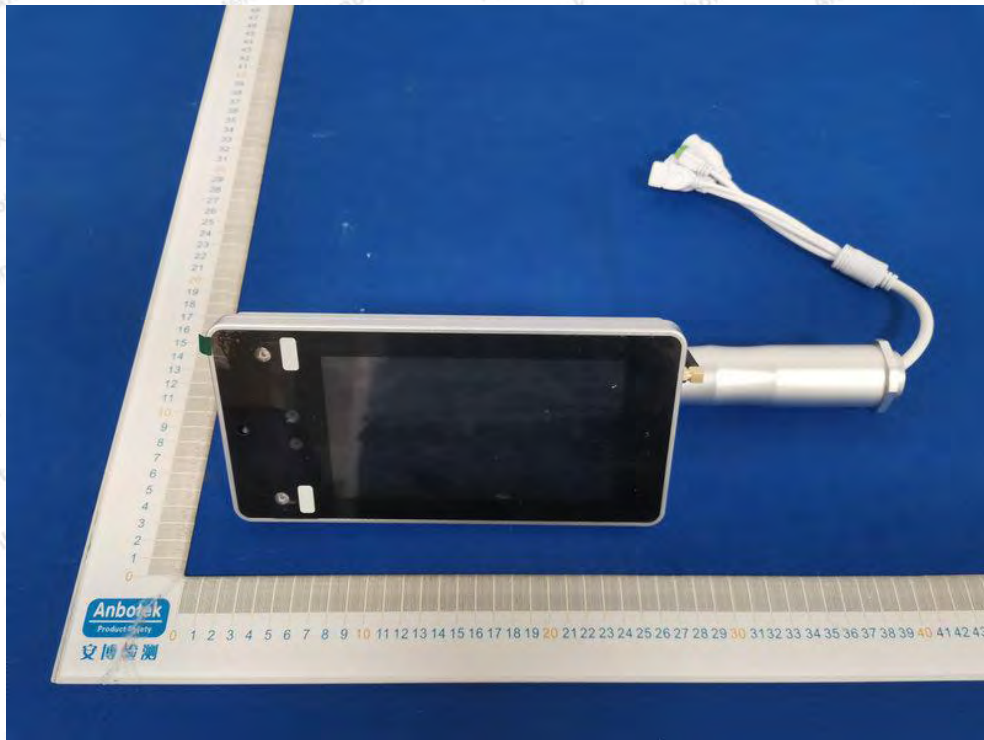


Photo of Radiation Emission Test

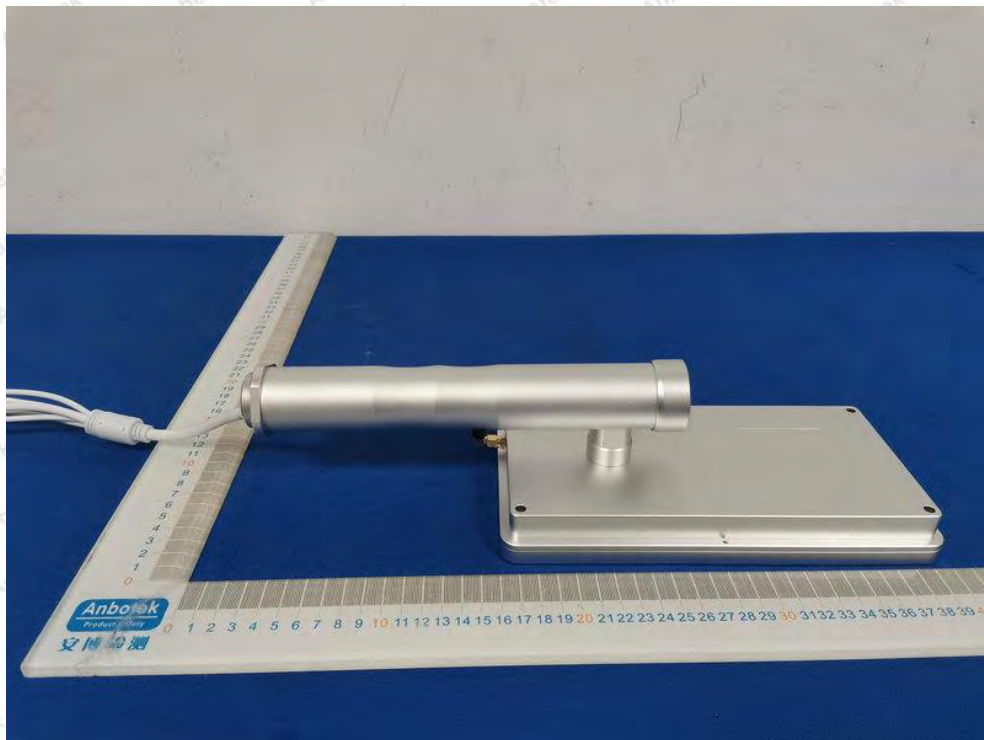
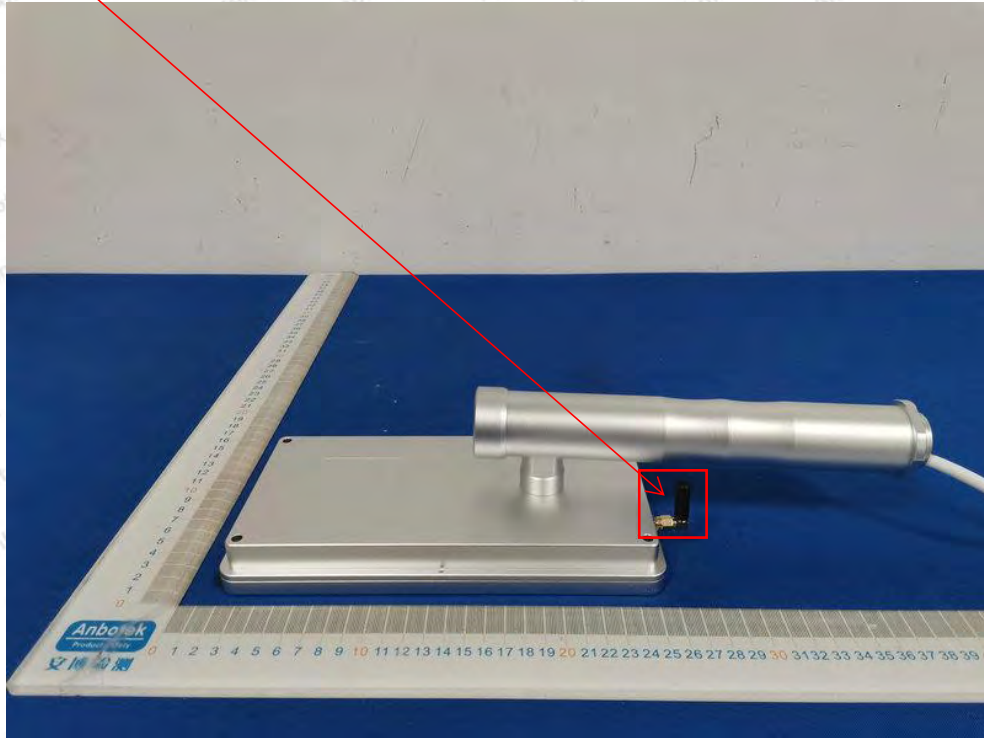


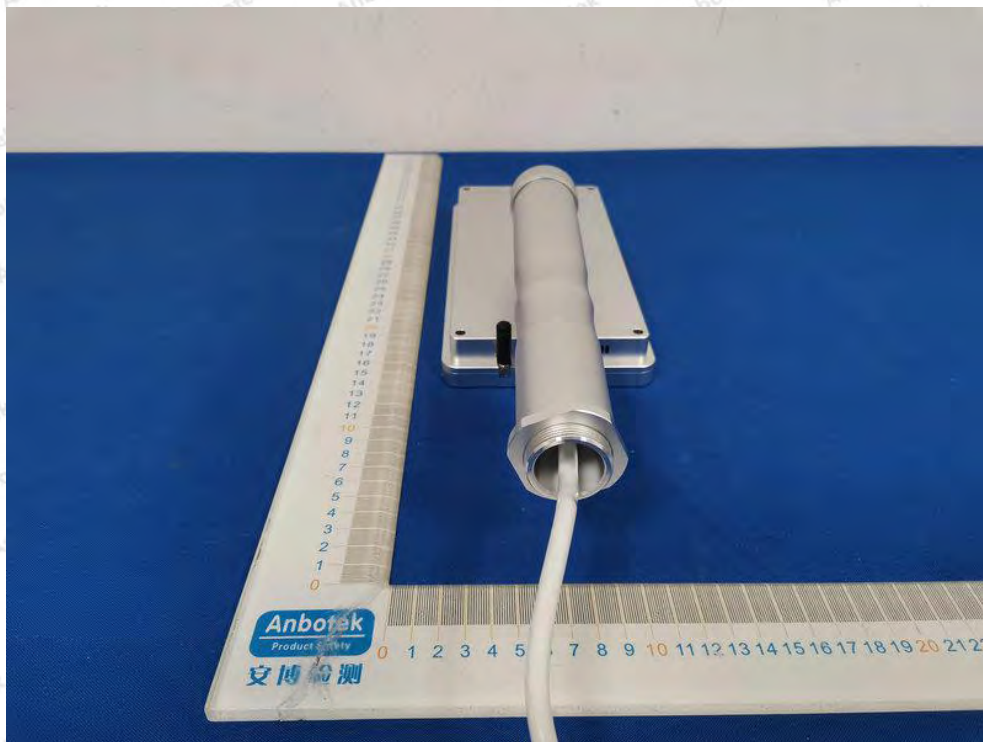


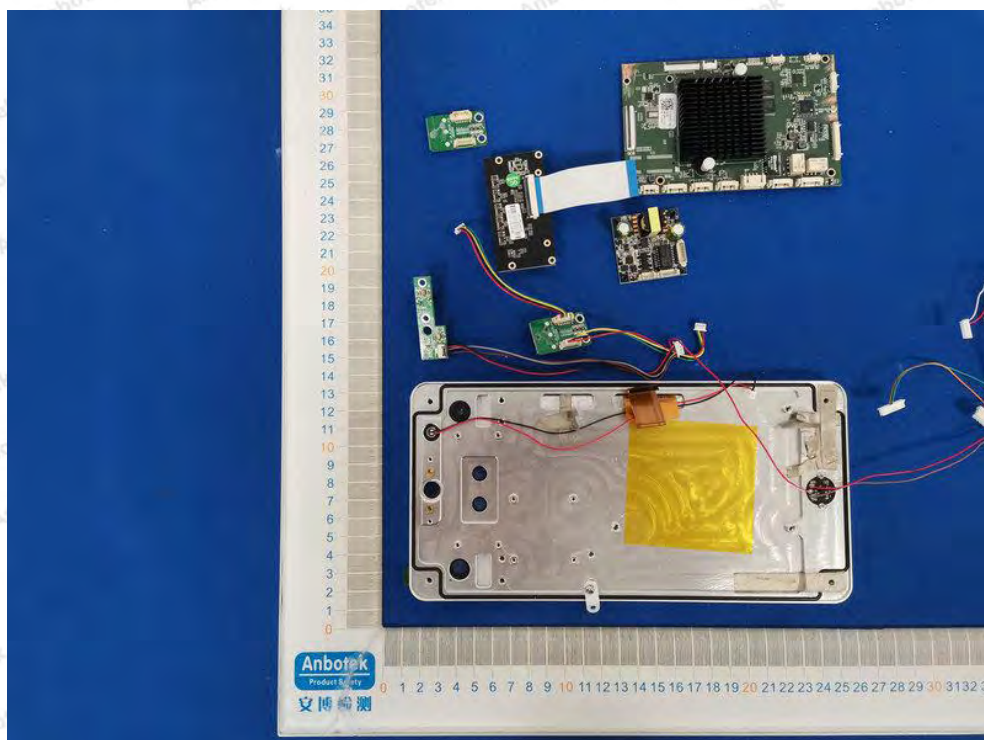
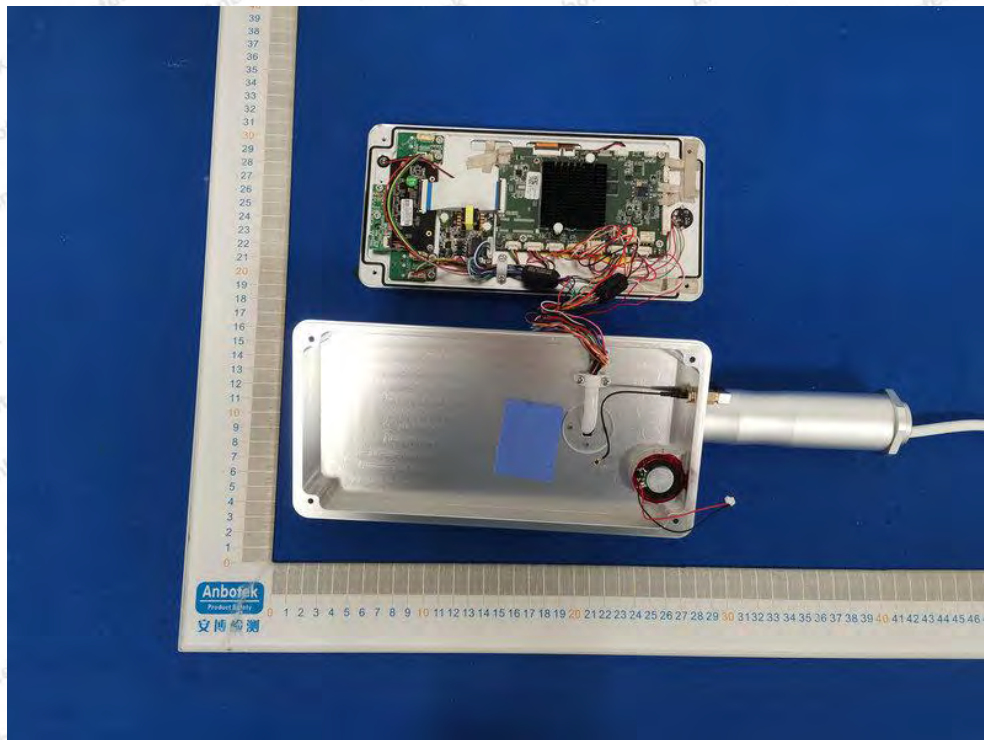
APPENDIX II -- EXTERNAL PHOTOGRAPH

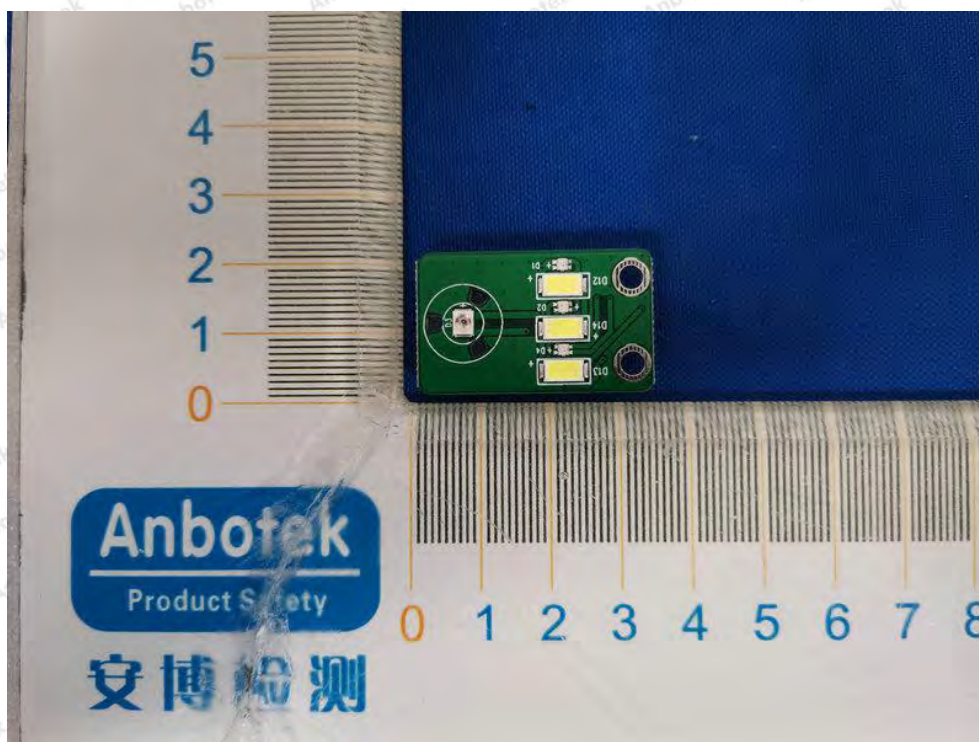
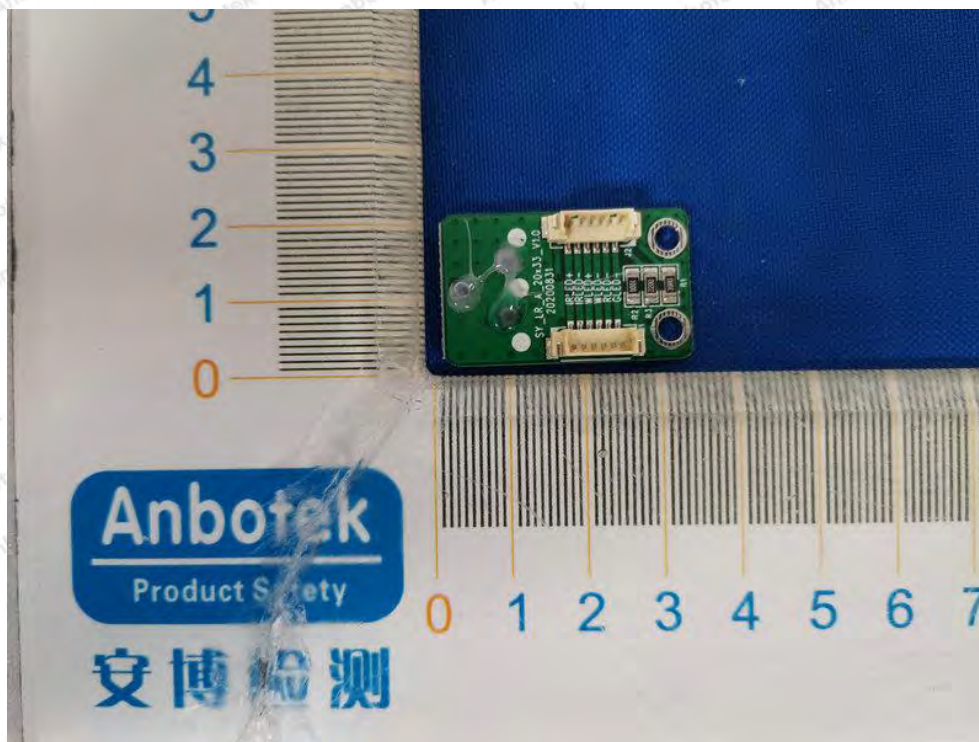


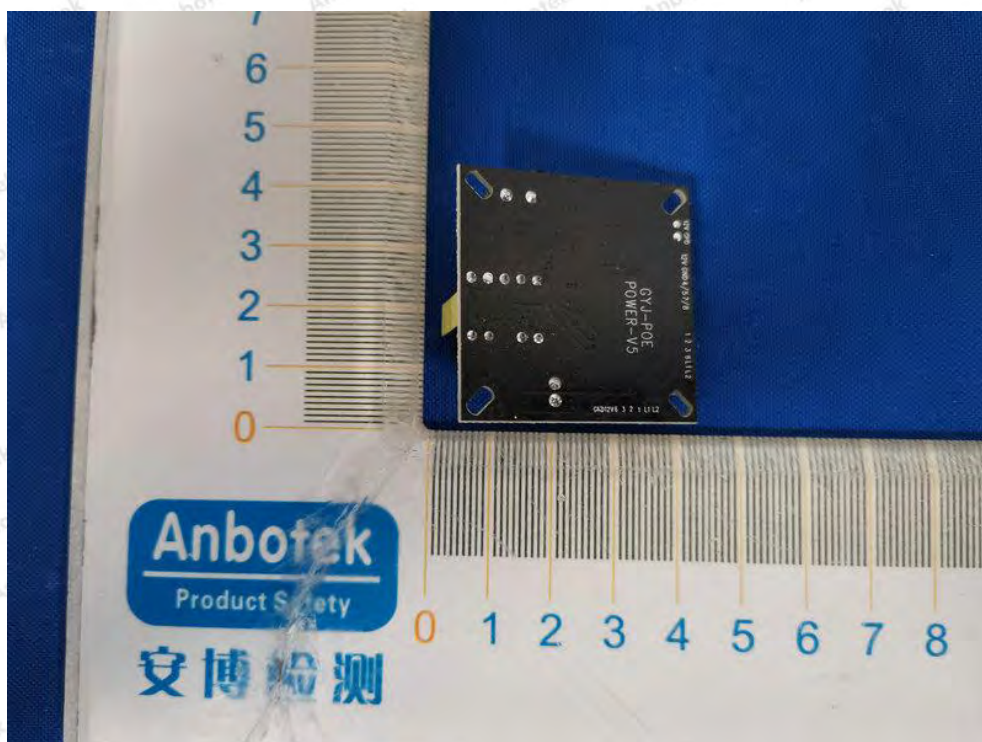
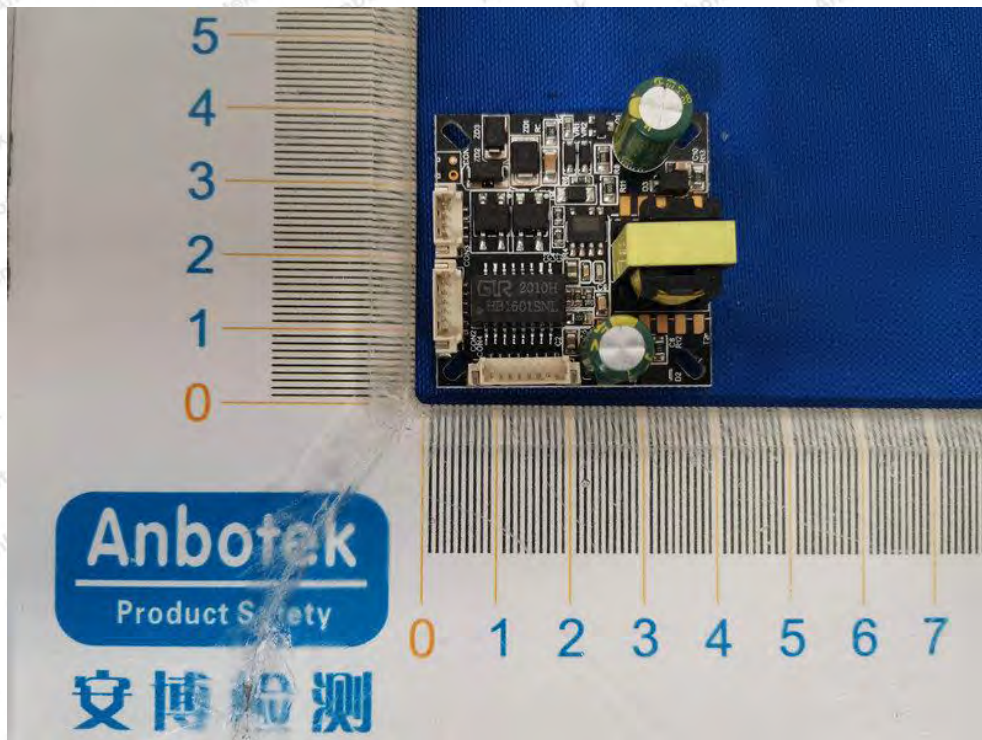
WiFi ANT

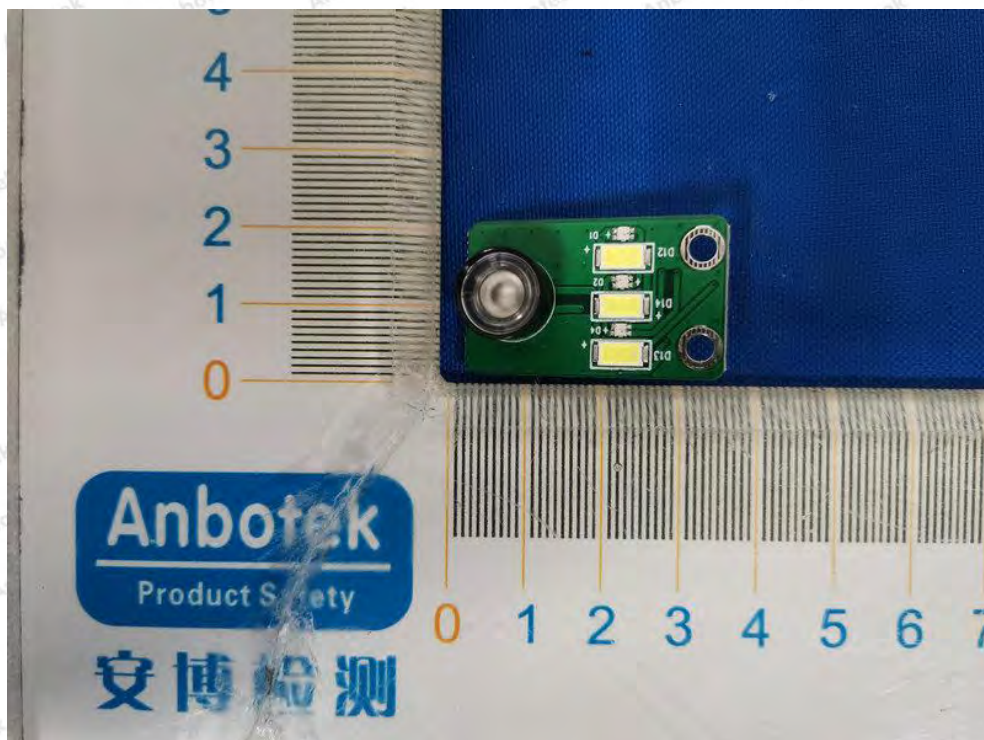
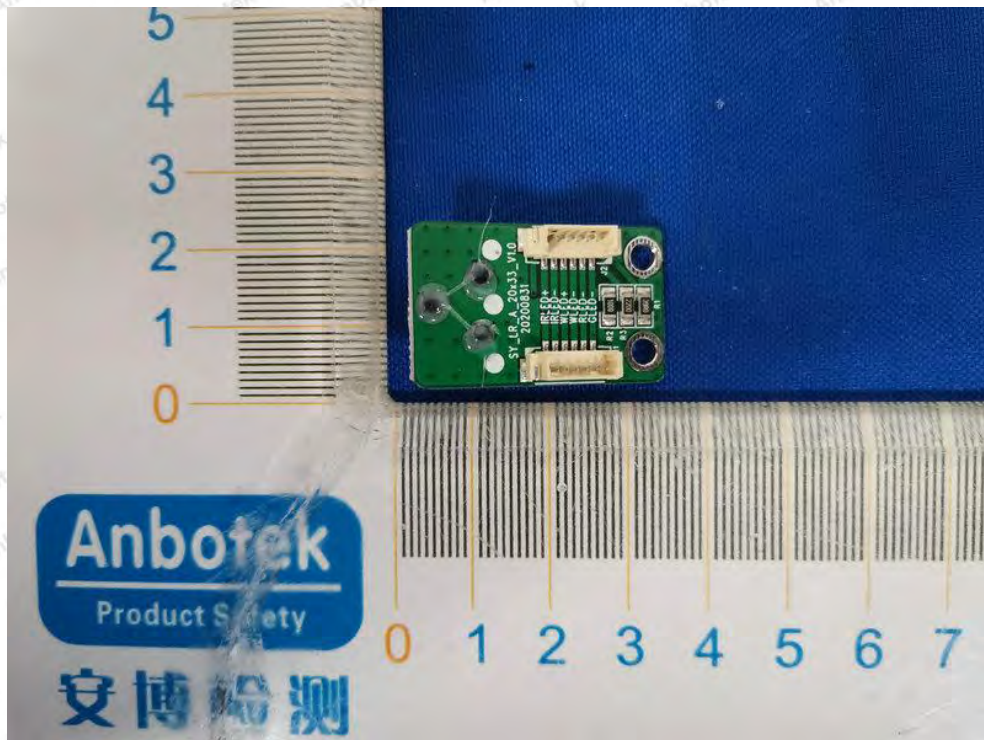


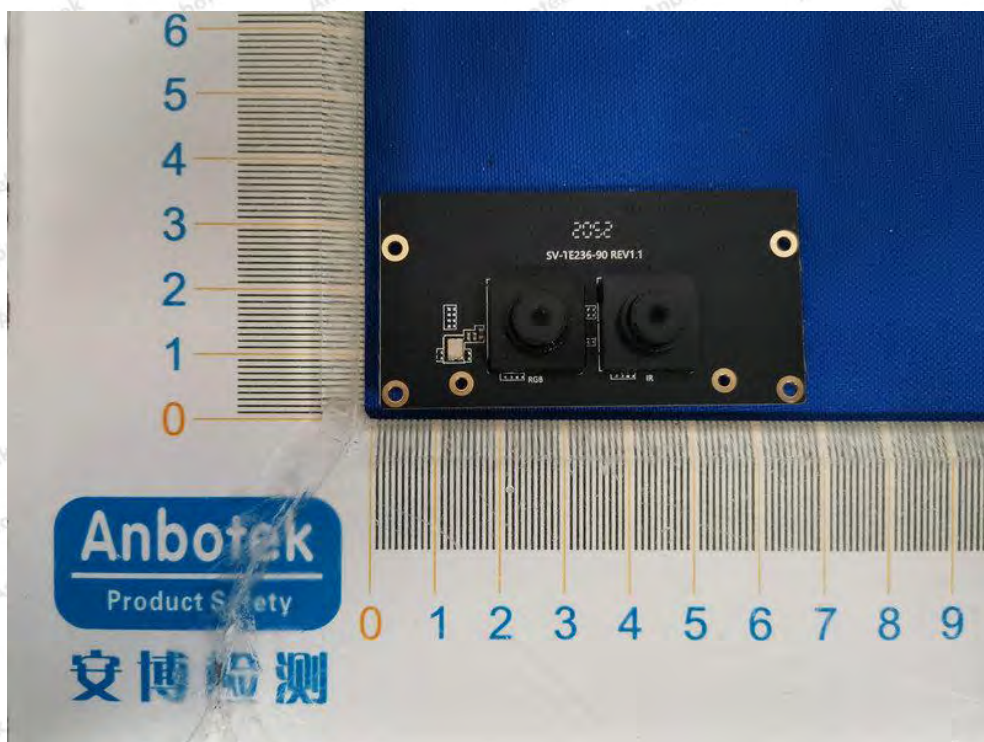
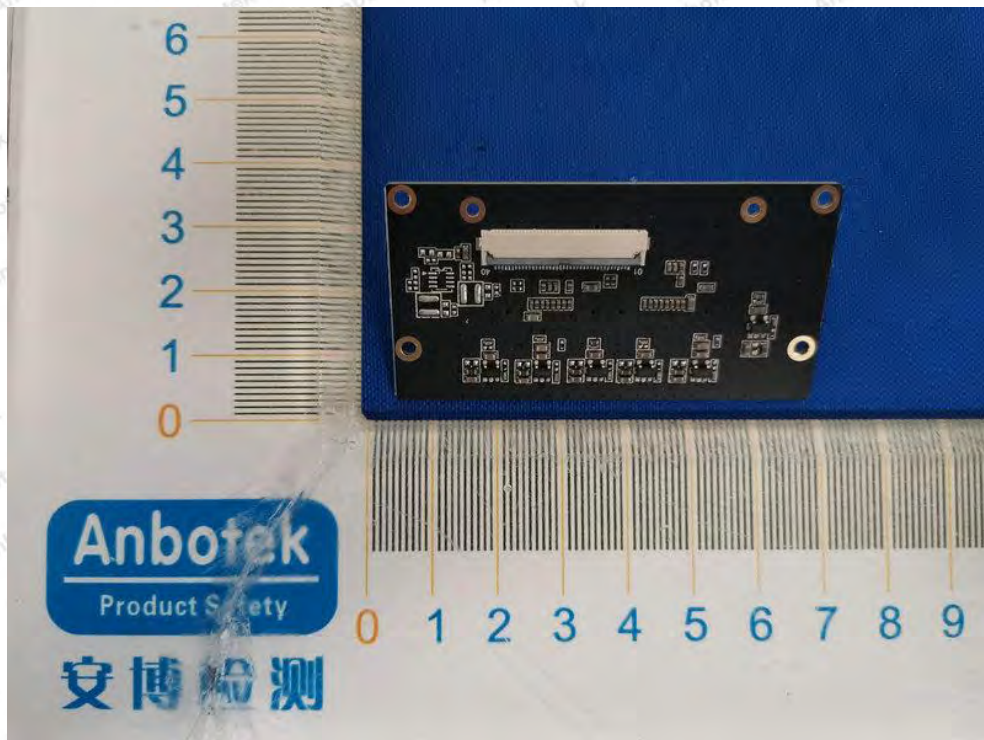


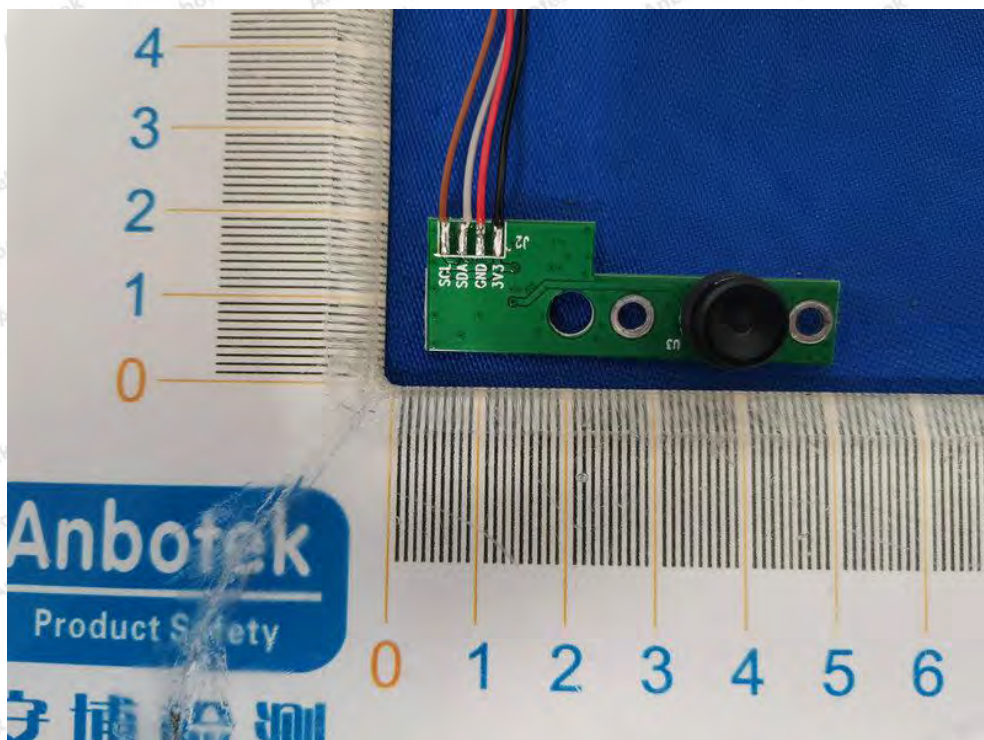
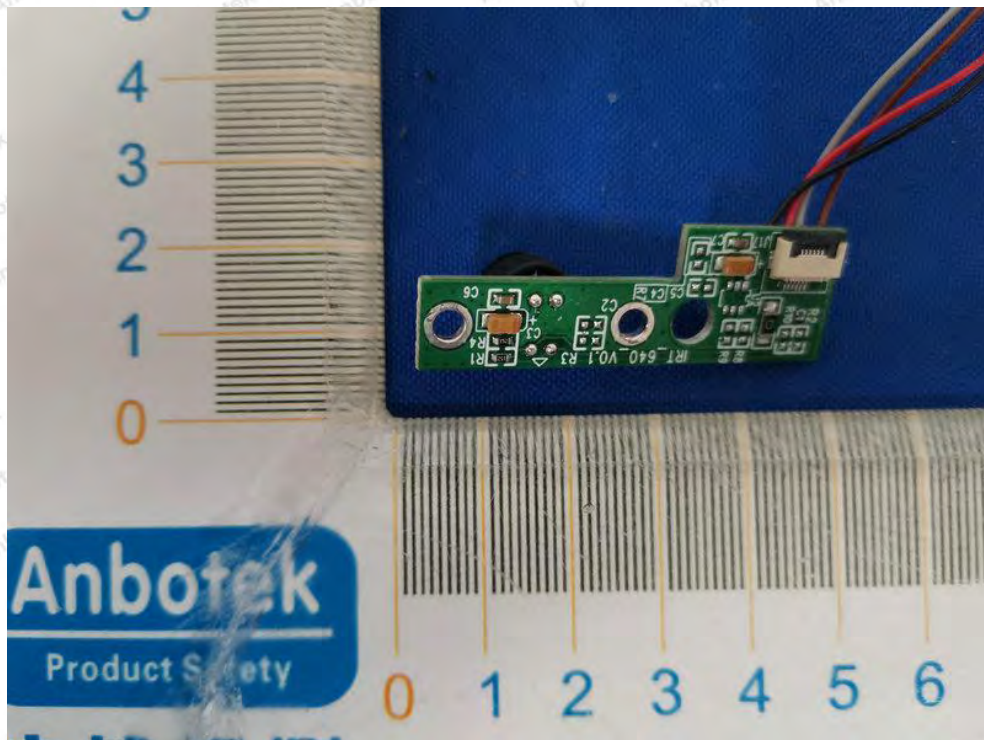
APPENDIX III -- INTERNAL PHOTOGRAPH

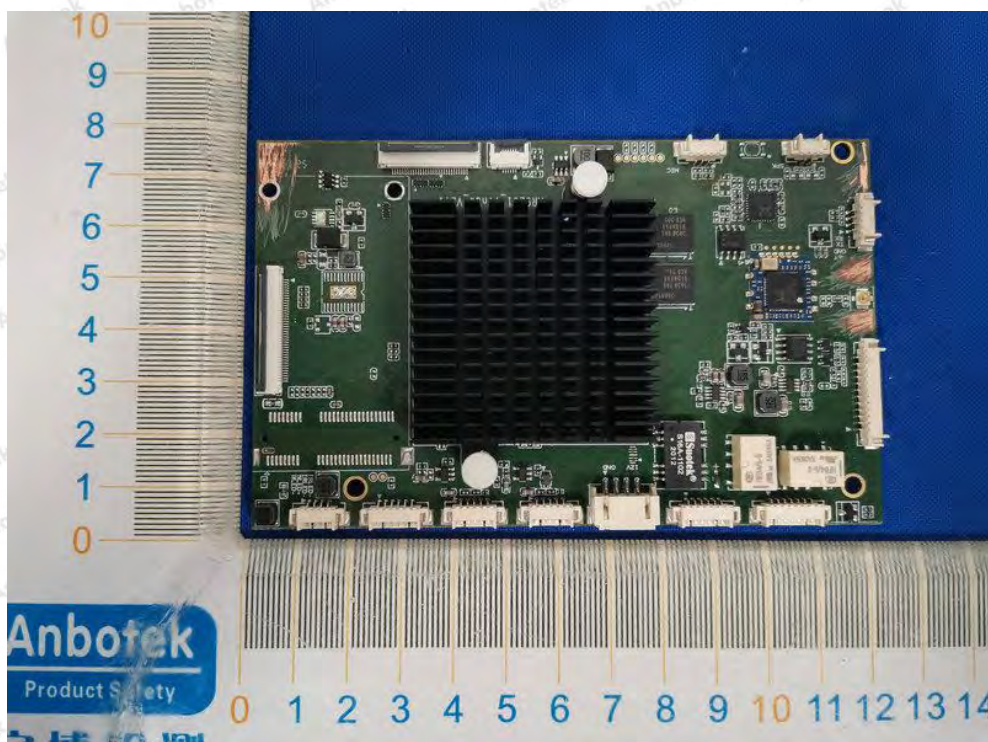
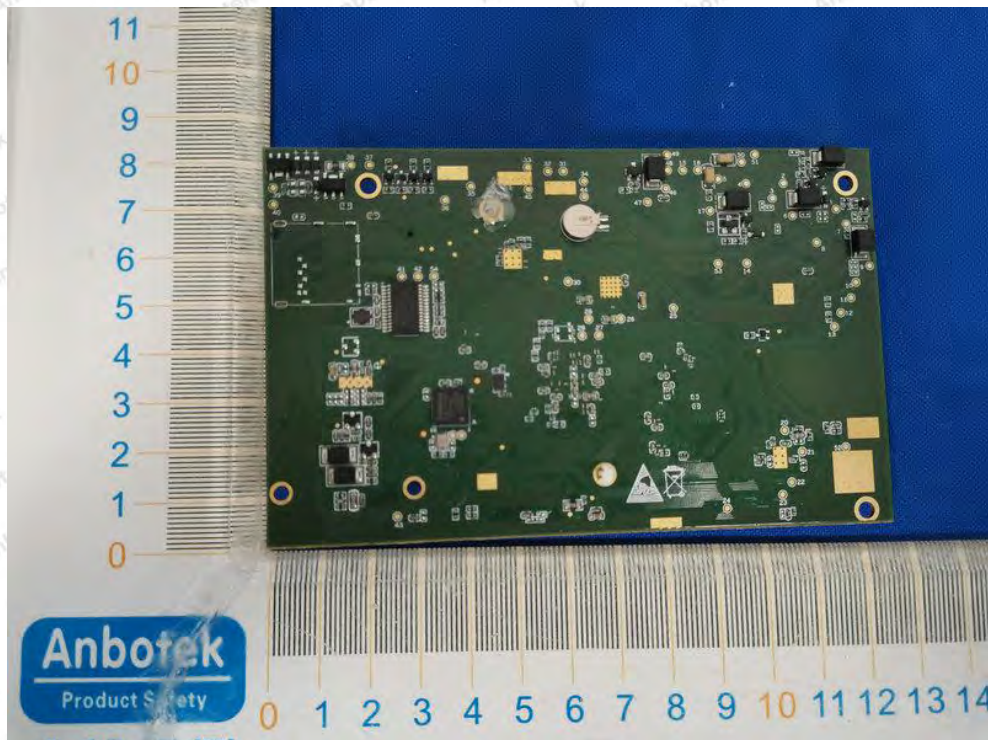


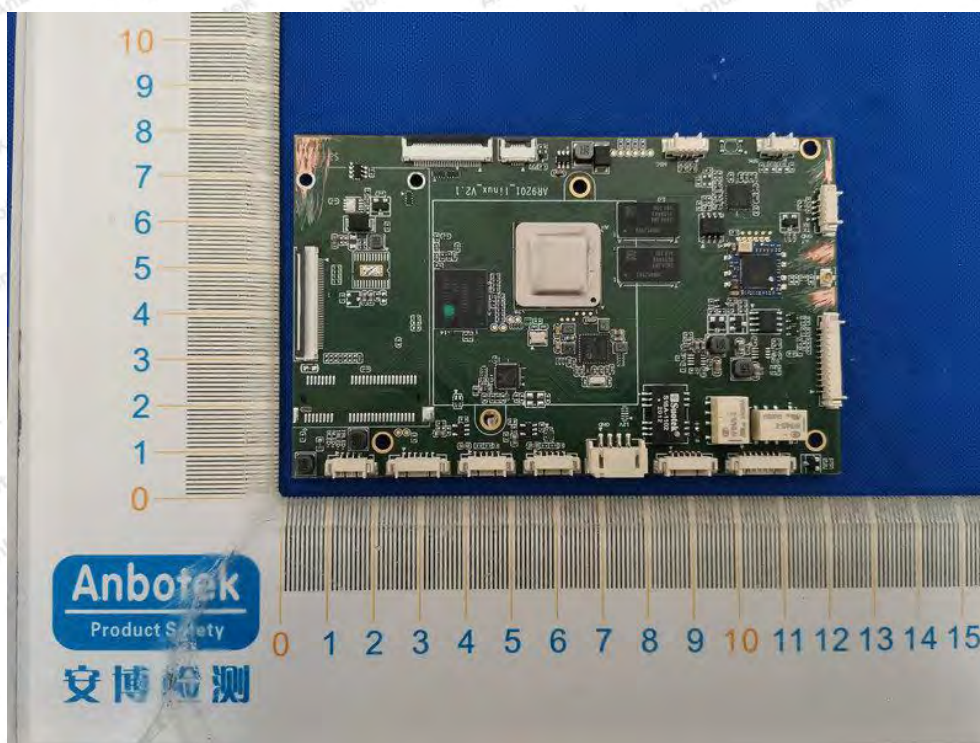












----- End of Report -----

