FCC TEST REPORT

Client Name	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Product Name	:	Floodlight Cam E 2K
Date	:	Jan. 30, 2021

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	Anker Innovations Limited
Manufacturer	:	Anker Innovations Limited
Product Name	:	Floodlight Cam E 2K
Model No.	:	T8422
Trade Mark	:	eufy SECURITY
Rating(s)	:	Input: AC100-240V, 0.35A MAX, 50/60Hz
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. 15, 2020
Date of Test	Dec. 15, 2020~Jan. 26, 2021

Prepared by

(Engineer / Yilia Zhong)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Kingkong Jin)

1. General Information

1.2. Description of Device (EUT)

Product Name	:	Floodlight Cam E 2K	
Model No.	:	T8422	
Trade Mark	:	eufy SECURITY	
Test Power Supply	:	AC 120V, 60Hz / AC 240V, 60Hz	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	WIFI: 802.11b/ g/ n(HT20): 2412-2462MHz BLE: 2402-2480MHz
		Number of Channel:	11 Channels for 802.11b/ g/ n(HT20) 40 Channels for BLE
		Modulation Type:	802.11b CCK; 802.11g/n OFDM GFSK for BLE
		Antenna Type:	WIFI & BLE: PIFA Antenna
		Antenna Gain(Peak):	WIFI/BLE: 2.6 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 2.4G WIFI only.			

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.3. Auxiliary Equipment Used During Test

N/A		

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, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5

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.

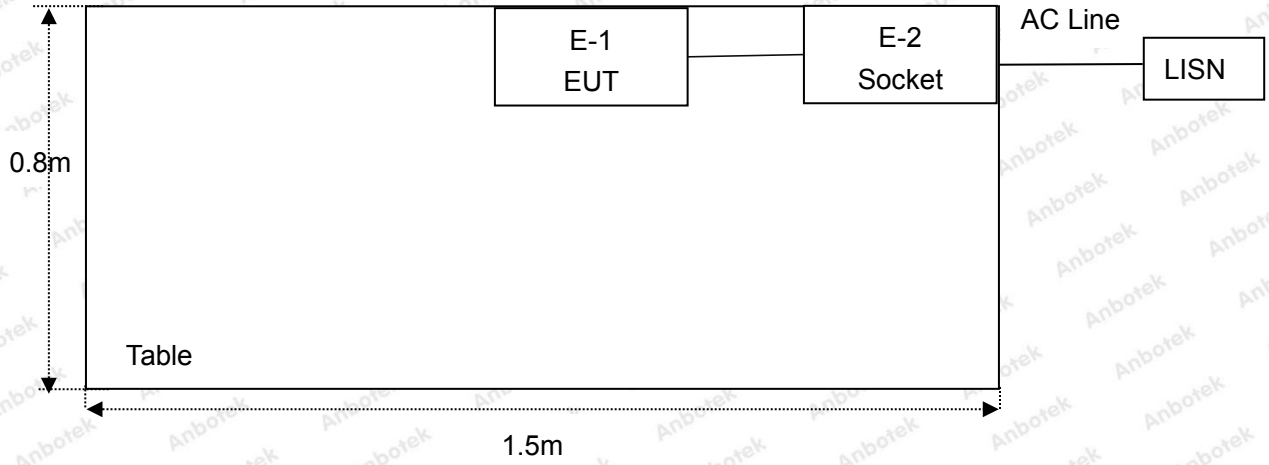
Mode	Available Channel	Test Channel	Modulation Tech.	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	CCK	DBPSK	1.0
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

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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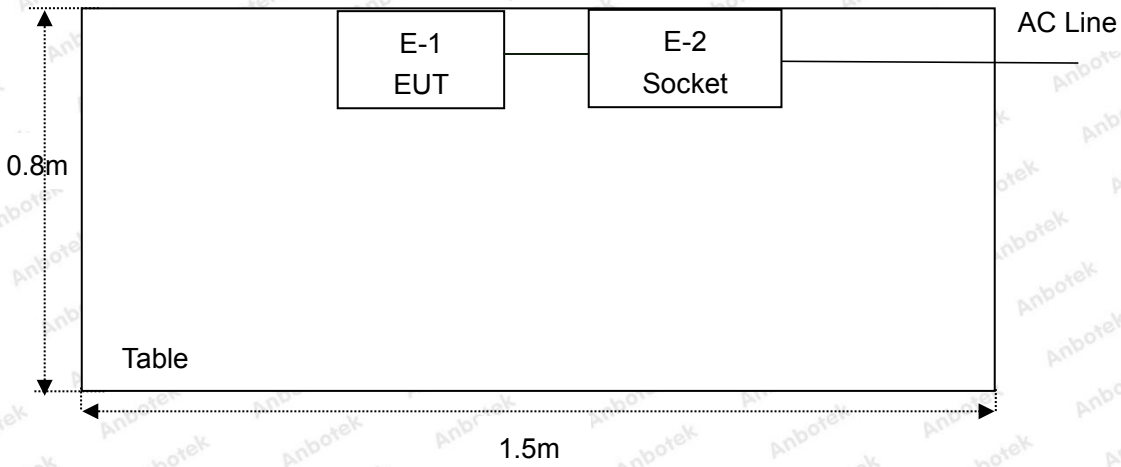


1.7. Test Equipment List

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	ESPI3	101604	Oct. 26, 2020	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
4.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
5.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 26, 2020	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
9.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 02, 2020	2 Year
10.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
12.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 26, 2020	1 Year
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
17.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
18.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
19.	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
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
Remark: “N/A” is an abbreviation for Not Applicable.		

This is a Class II application of the device, the difference between the original device and current one described as following:

(1) Changing the appearance.

(2) Changing the model name to “T8422”.

(3) Changing the Product Name to “Floodlight Cam E 2K”..

(4) Changing a few parts of the Power driver board.

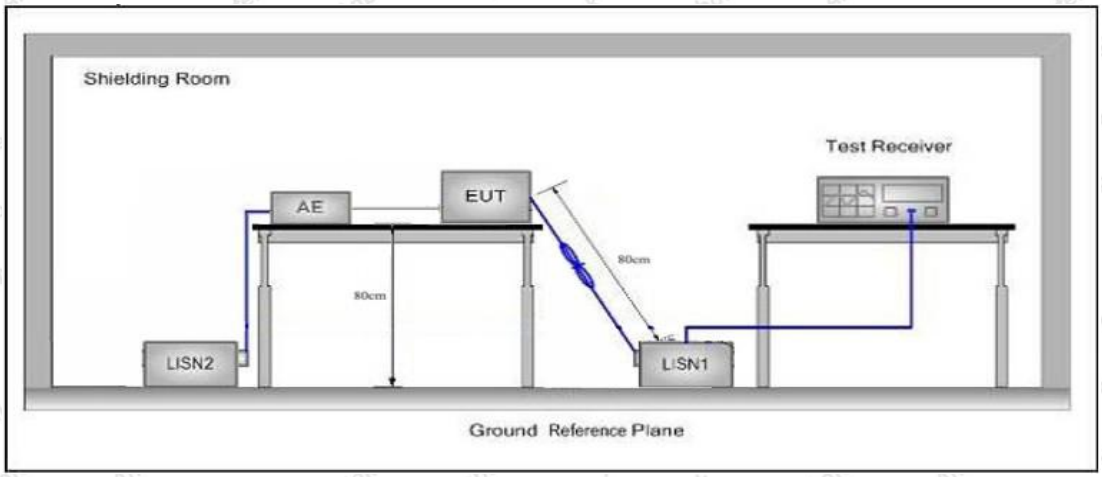
Based on the change made to the device, the spurious emission test items were performed.

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.

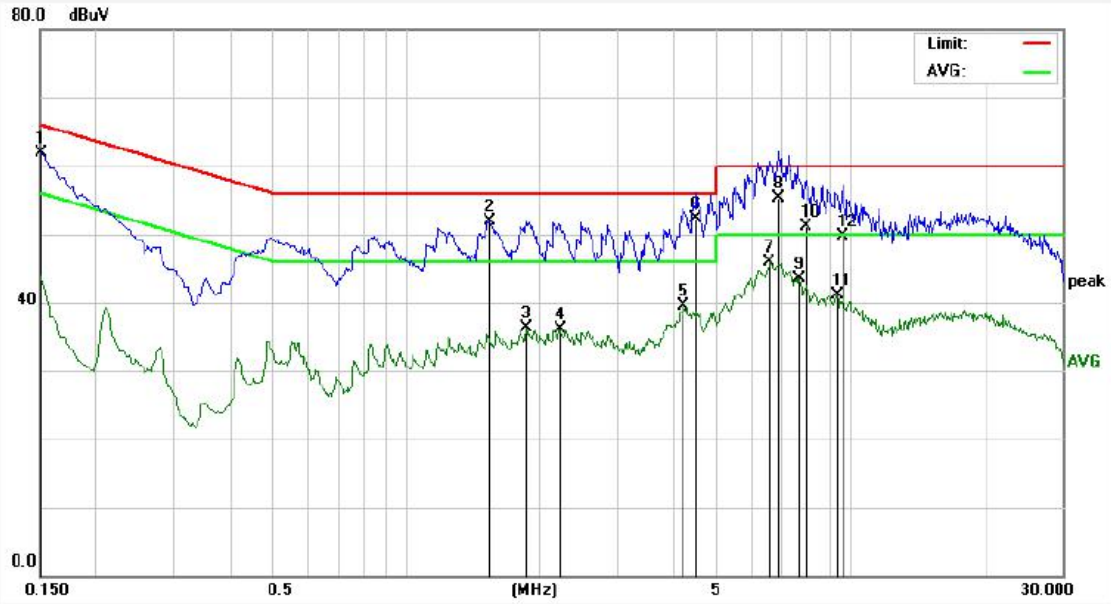
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11n HT20 CH11 which is the worst case, only the worst case is recorded in the report.

Conducted Emission Test Data

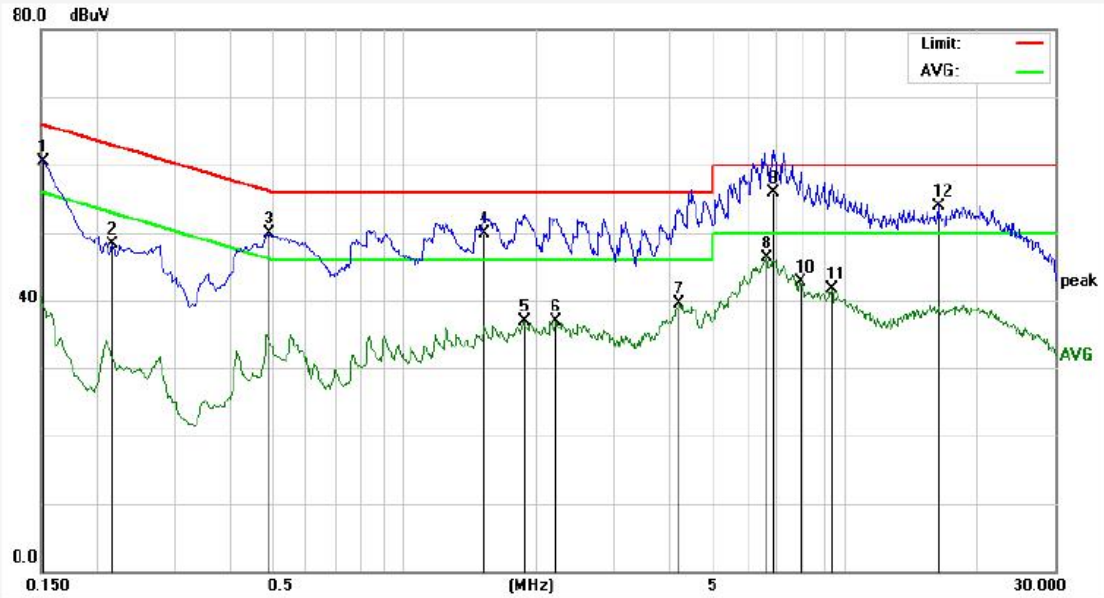
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH11
Test Specification: AC 240V, 60Hz
Comment: Live Line
Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	42.08	19.90	61.98	65.99	-4.01	QP	
2	1.5420	31.80	20.13	51.93	56.00	-4.07	QP	
3	1.8660	16.15	20.14	36.29	46.00	-9.71	AVG	
4	2.2180	16.01	20.14	36.15	46.00	-9.85	AVG	
5	4.2220	19.35	20.19	39.54	46.00	-6.46	AVG	
6	4.4860	32.11	20.19	52.30	56.00	-3.70	QP	
7	6.5620	25.70	20.25	45.95	50.00	-4.05	AVG	
8	6.9060	34.95	20.26	55.21	60.00	-4.79	QP	
9	7.6620	23.20	20.28	43.48	50.00	-6.52	AVG	
10	7.9500	30.90	20.29	51.19	60.00	-8.81	QP	
11	9.3220	20.73	20.32	41.05	50.00	-8.95	AVG	
12	9.5940	29.37	20.33	49.70	60.00	-10.30	QP	

Conducted Emission Test Data

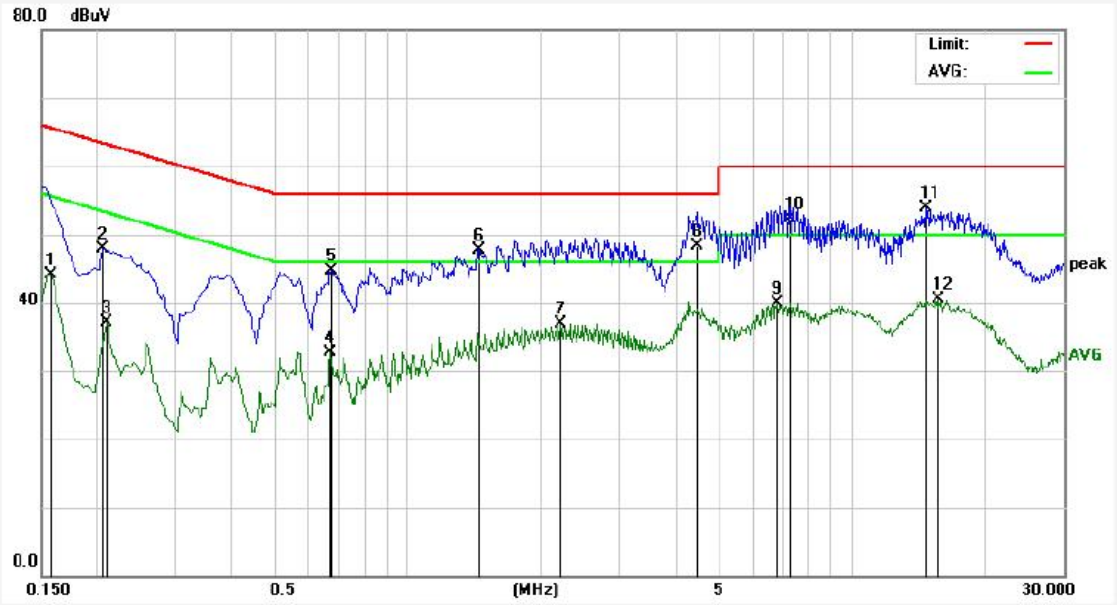
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH11
Test Specification: AC 240V, 60Hz
Comment: Neutral Line
Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1516	40.56	19.90	60.46	65.91	-5.45	QP	
2	0.2180	28.31	19.90	48.21	62.89	-14.68	QP	
3	0.4940	30.02	19.98	50.00	56.10	-6.10	QP	
4	1.5220	29.80	20.13	49.93	56.00	-6.07	QP	
5	1.8700	16.84	20.14	36.98	46.00	-9.02	AVG	
6	2.2100	16.67	20.14	36.81	46.00	-9.19	AVG	
7	4.2060	19.39	20.19	39.58	46.00	-6.42	AVG	
8	6.6300	26.13	20.25	46.38	50.00	-3.62	AVG	
9	6.9020	35.68	20.26	55.94	60.00	-4.06	QP	
10	7.8860	22.37	20.28	42.65	50.00	-7.35	AVG	
11	9.3060	21.36	20.32	41.68	50.00	-8.32	AVG	
12	16.2660	33.59	20.28	53.87	60.00	-6.13	QP	

Conducted Emission Test Data

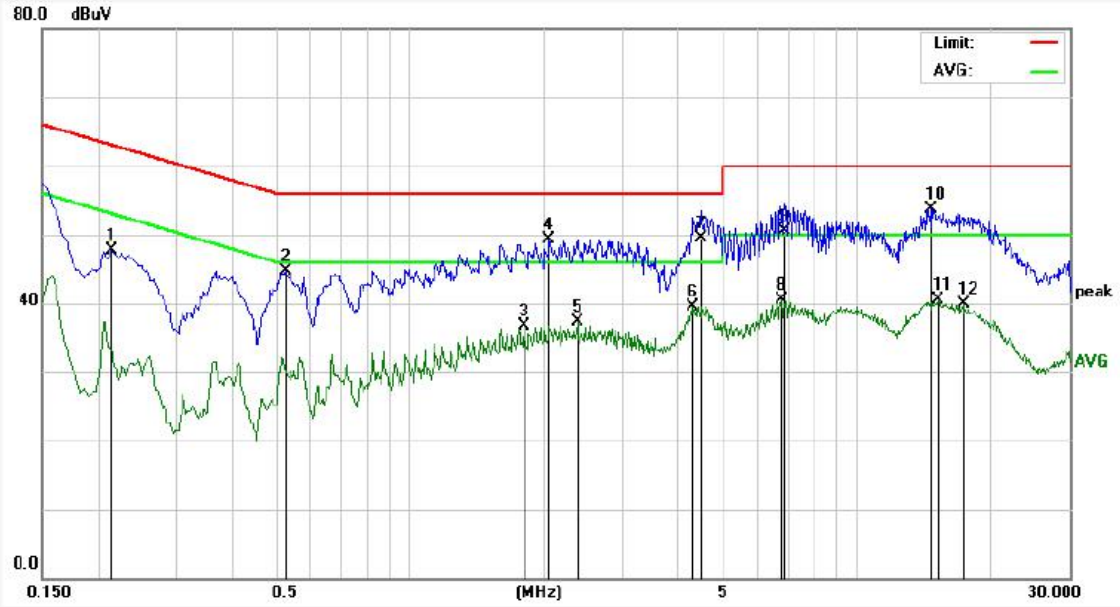
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH11
Test Specification: AC 120V, 60Hz
Comment: Live Line
Tem.: 20.4℃ Hum.: 55%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	24.29	19.90	44.19	55.56	-11.37	AVG	
2	0.2060	27.94	19.90	47.84	63.36	-15.52	QP	
3	0.2100	17.20	19.90	37.10	53.20	-16.10	AVG	
4	0.6700	12.72	20.03	32.75	46.00	-13.25	AVG	
5	0.6740	24.77	20.03	44.80	56.00	-11.20	QP	
6	1.4420	27.60	20.13	47.73	56.00	-8.27	QP	
7	2.2060	16.69	20.14	36.83	46.00	-9.17	AVG	
8	4.4660	28.06	20.19	48.25	56.00	-7.75	QP	
9	6.7780	19.66	20.25	39.91	50.00	-10.09	AVG	
10	7.2420	32.09	20.27	52.36	60.00	-7.64	QP	
11	14.6380	33.54	20.27	53.81	60.00	-6.19	QP	
12	15.7020	20.20	20.27	40.47	50.00	-9.53	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH11
Test Specification: AC 120V, 60Hz
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	0.2140	27.79	19.90	47.69	63.04	-15.35	QP	
2	0.5260	24.74	19.99	44.73	56.00	-11.27	QP	
3	1.7980	16.54	20.14	36.68	46.00	-9.32	AVG	
4	2.0500	29.14	20.14	49.28	56.00	-6.72	QP	
5	2.3660	17.12	20.15	37.27	46.00	-8.73	AVG	
6	4.3099	19.38	20.19	39.57	46.00	-6.43	AVG	
7	4.4618	29.35	20.19	49.54	56.00	-6.46	QP	
8	6.7739	20.21	20.25	40.46	50.00	-9.54	AVG	
9	6.8899	30.25	20.26	50.51	60.00	-9.49	QP	
10	14.6379	33.43	20.27	53.70	60.00	-6.30	QP	
11	15.2019	20.18	20.26	40.44	50.00	-9.56	AVG	
12	17.3379	19.52	20.30	39.82	50.00	-10.18	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

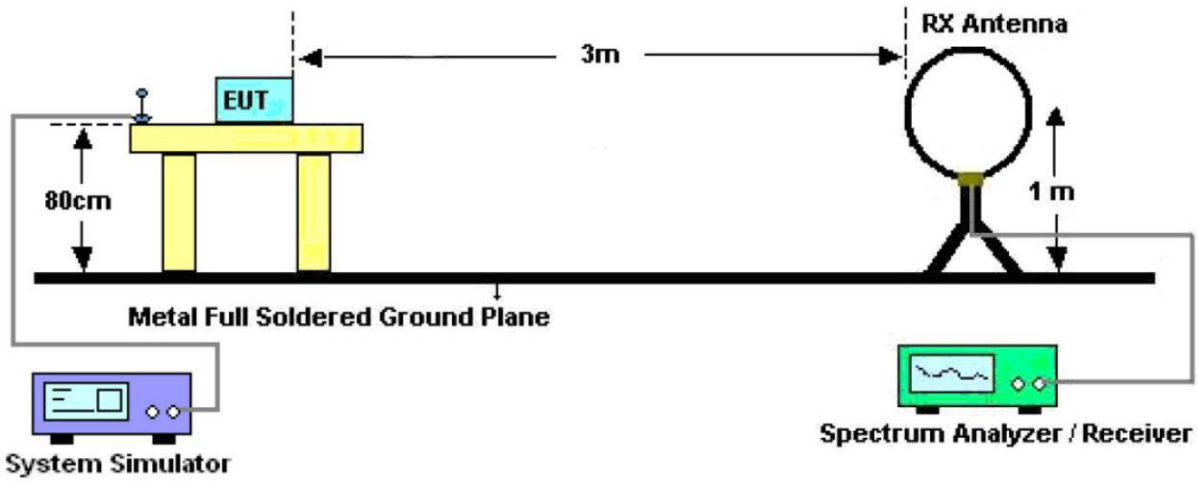


Figure 1. Below 30MHz

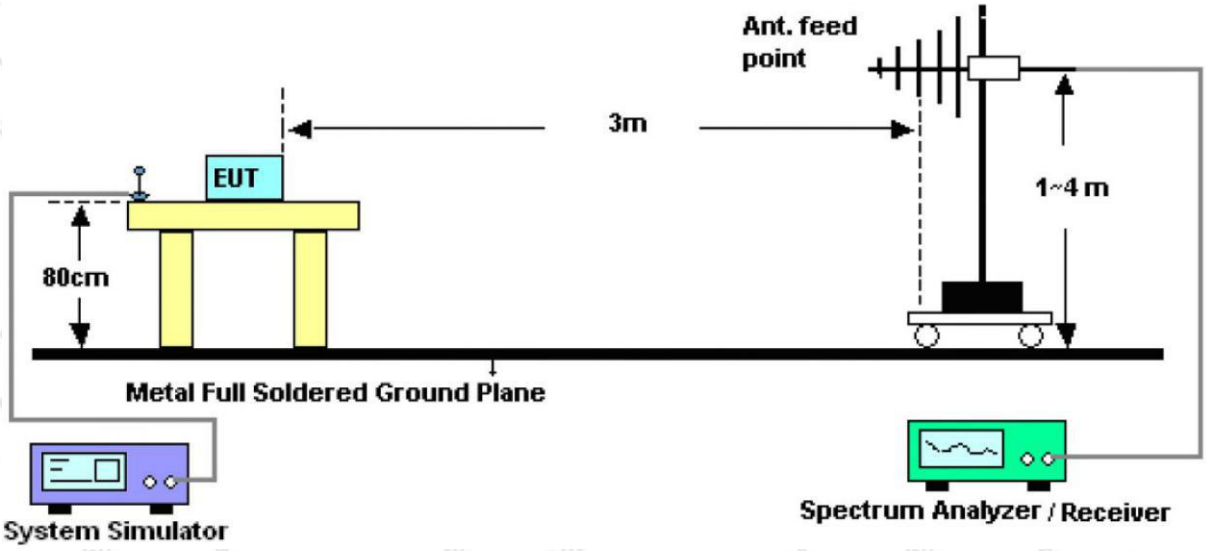


Figure 2. 30MHz to 1GHz

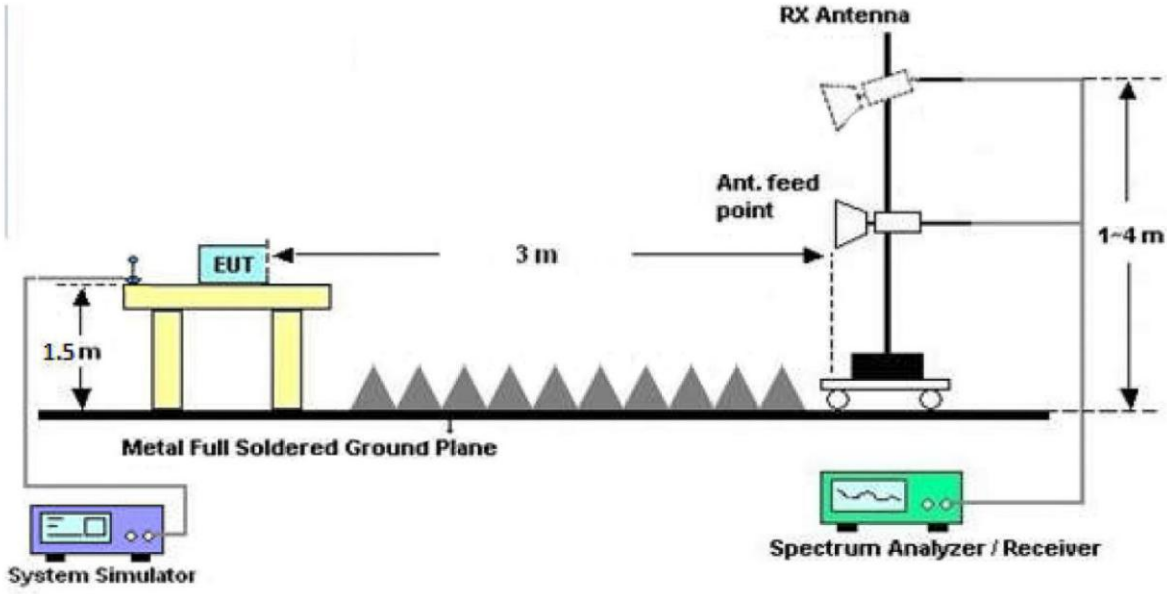


Figure 3. Above 1 GHz

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 HT20 CH11 which is the worst case, only the worst case is recorded in the report.

Test Results (30~1000MHz)

Test Mode:	802.11n HT20 CH11	Temp.(℃)/Hum.(%RH):	22.1℃/50%RH
Polarization:	Horizontal	Power Source:	AC 120V, 60Hz

No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.8983	30.74	-16.82	13.92	40.00	-26.08	QP	100	0	
2	68.9929	43.32	-20.00	23.32	40.00	-16.68	QP	100	360	
3	92.1388	49.58	-17.18	32.40	43.50	-11.10	QP	100	0	
4	155.9100	44.99	-20.09	24.90	43.50	-18.60	QP	100	360	
5	184.1665	45.24	-18.40	26.84	43.50	-16.66	QP	100	0	
6	261.5163	44.51	-16.28	28.23	46.00	-17.77	QP	100	360	

Test Results (30~1000MHz)

Test Mode: 802.11n HT20 CH11 Temp.(℃)/Hum.(%RH): 22.1℃/50%RH

Polarization: Vertical Power Source: AC 120V, 60Hz

No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.8983	46.72	-16.82	29.90	40.00	-10.10	QP	100	0	
2	49.8813	48.15	-15.91	32.24	40.00	-7.76	QP	100	360	
3	57.8977	45.68	-16.28	29.40	40.00	-10.60	QP	100	0	
4	106.9461	48.32	-16.29	32.03	43.50	-11.47	QP	100	360	
5	153.2004	50.26	-20.21	30.05	43.50	-13.45	QP	100	0	
6	311.6326	43.94	-16.92	27.02	46.00	-18.98	QP	100	360	

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	39.92	34.13	6.61	34.09	46.57	74.00	-27.43	V
7236.00	33.99	37.14	7.74	34.51	44.36	74.00	-29.64	V
9648.00	32.55	39.35	9.26	34.80	46.36	74.00	-27.64	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4824.00	38.65	34.13	6.61	34.09	45.30	74.00	-28.70	H
7236.00	33.76	37.14	7.74	34.51	44.13	74.00	-29.87	H
9648.00	32.14	39.35	9.26	34.80	45.95	74.00	-28.05	H
12060.00	*					74.00		H
14472.00	*					74.00		H
16884.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4824.00	29.04	34.13	6.61	34.09	35.69	54.00	-18.31	V
7236.00	22.86	37.14	7.74	34.51	33.23	54.00	-20.77	V
9648.00	22.90	39.35	9.26	34.80	36.71	54.00	-17.29	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4824.00	28.21	34.13	6.61	34.09	34.86	54.00	-19.14	H
7236.00	22.35	37.14	7.74	34.51	32.72	54.00	-21.28	H
9648.00	21.89	39.35	9.26	34.80	35.70	54.00	-18.30	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H

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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	39.05	34.13	6.61	34.09	45.70	74.00	-28.30	V
7311.00	34.10	37.14	7.74	34.51	44.47	74.00	-29.53	V
9748.00	33.59	39.35	9.26	34.80	47.40	74.00	-26.60	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	39.57	34.13	6.61	34.09	46.22	74.00	-27.78	H
7311.00	32.76	37.14	7.74	34.51	43.13	74.00	-30.87	H
9748.00	33.49	39.35	9.26	34.80	47.30	74.00	-26.70	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	29.92	34.13	6.61	34.09	36.57	54.00	-17.43	V
7311.00	22.42	37.14	7.74	34.51	32.79	54.00	-21.21	V
9748.00	22.85	39.35	9.26	34.80	36.66	54.00	-17.34	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	29.70	34.13	6.61	34.09	36.35	54.00	-17.65	H
7311.00	21.85	37.14	7.74	34.51	32.22	54.00	-21.78	H
9748.00	23.21	39.35	9.26	34.80	37.02	54.00	-16.98	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H

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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	44.35	34.57	6.74	34.09	51.57	74.00	-22.43	V
7386.00	34.63	37.29	7.80	34.55	45.17	74.00	-28.83	V
9848.00	36.79	39.55	9.41	34.81	50.94	74.00	-23.06	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4924.00	43.74	34.57	6.74	34.09	50.96	74.00	-23.04	H
7386.00	33.58	37.29	7.80	34.55	44.12	74.00	-29.88	H
9848.00	32.98	39.55	9.41	34.81	47.13	74.00	-26.87	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	35.31	34.57	6.74	34.09	42.53	54.00	-11.47	V
7386.00	24.56	37.29	7.80	34.55	35.10	54.00	-18.90	V
9848.00	25.30	39.55	9.41	34.81	39.45	54.00	-14.55	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4924.00	34.13	34.57	6.74	34.09	41.35	54.00	-12.65	H
7386.00	22.97	37.29	7.80	34.55	33.51	54.00	-20.49	H
9848.00	22.25	39.55	9.41	34.81	36.40	54.00	-17.60	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) 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.

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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	53.35	29.15	3.41	34.01	51.90	74.00	-22.10	H
2400.00	62.94	29.16	3.43	34.01	61.52	74.00	-12.48	H
2390.00	55.15	29.15	3.41	34.01	53.70	74.00	-20.30	V
2400.00	65.19	29.16	3.43	34.01	63.77	74.00	-10.23	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	39.62	29.15	3.41	34.01	38.17	54.00	-15.83	H
2400.00	48.10	29.16	3.43	34.01	46.68	54.00	-7.32	H
2390.00	41.58	29.15	3.41	34.01	40.13	54.00	-13.87	V
2400.00	49.36	29.16	3.43	34.01	47.94	54.00	-6.06	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	54.74	29.28	3.53	34.03	53.52	74.00	-20.48	H
2500.00	50.02	29.30	3.56	34.03	48.85	74.00	-25.15	H
2483.50	57.35	29.28	3.53	34.03	56.13	74.00	-17.87	V
2500.00	52.85	29.30	3.56	34.03	51.68	74.00	-22.32	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	40.24	29.28	3.53	34.03	39.02	54.00	-14.98	H
2500.00	36.02	29.30	3.56	34.03	34.85	54.00	-19.15	H
2483.50	42.34	29.28	3.53	34.03	41.12	54.00	-12.88	V
2500.00	37.97	29.30	3.56	34.03	36.80	54.00	-17.20	V

Remark:

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

Radiated Band Edge:

Test Mode: 802.11g Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.66	27.53	5.47	33.92	50.74	74.00	-23.26	H
2400.00	60.68	27.55	5.49	29.93	63.79	74.00	-10.21	H
2390.00	53.35	27.53	5.47	33.92	52.43	74.00	-21.57	V
2400.00	62.48	27.55	5.49	29.93	65.59	74.00	-8.41	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	38.42	27.53	5.47	33.92	37.50	54.00	-16.50	H
2400.00	46.72	27.55	5.49	29.93	49.83	54.00	-4.17	H
2390.00	40.24	27.53	5.47	33.92	39.32	54.00	-14.68	V
2400.00	47.84	27.55	5.49	29.93	50.95	54.00	-3.05	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	52.33	29.28	3.53	34.03	51.11	74.00	-22.89	H
2500.00	48.15	29.30	3.56	34.03	46.98	74.00	-27.02	H
2483.50	54.59	29.28	3.53	34.03	53.37	74.00	-20.63	V
2500.00	50.66	29.30	3.56	34.03	49.49	74.00	-24.51	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	38.79	29.28	3.53	34.03	37.57	54.00	-16.43	H
2500.00	34.89	29.30	3.56	34.03	33.72	54.00	-20.28	H
2483.50	40.74	29.28	3.53	34.03	39.52	54.00	-14.48	V
2500.00	36.77	29.30	3.56	34.03	35.60	54.00	-18.40	V

Remark:

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

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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	51.23	27.53	5.47	33.92	50.31	74.00	-23.69	H
2400.00	60.10	27.55	5.49	29.93	63.21	74.00	-10.79	H
2390.00	52.88	27.53	5.47	33.92	51.96	74.00	-22.04	V
2400.00	61.78	27.55	5.49	29.93	64.89	74.00	-9.11	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	38.11	27.53	5.47	33.92	37.19	54.00	-16.81	H
2400.00	46.36	27.55	5.49	29.93	49.47	54.00	-4.53	H
2390.00	39.90	27.53	5.47	33.92	38.98	54.00	-15.02	V
2400.00	47.45	27.55	5.49	29.93	50.56	54.00	-3.44	V

Test Mode: 802.11n20 Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.70	29.28	3.53	34.03	50.48	74.00	-23.52	H
2500.00	47.66	29.30	3.56	34.03	46.49	74.00	-27.51	H
2483.50	53.87	29.28	3.53	34.03	52.65	74.00	-21.35	V
2500.00	50.10	29.30	3.56	34.03	48.93	74.00	-25.07	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	38.41	29.28	3.53	34.03	37.19	54.00	-16.81	H
2500.00	34.59	29.30	3.56	34.03	33.42	54.00	-20.58	H
2483.50	40.32	29.28	3.53	34.03	39.10	54.00	-14.90	V
2500.00	36.46	29.30	3.56	34.03	35.29	54.00	-18.71	V

Remark:

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

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

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