



TEST REPORT
FCC ID: 2AMSWMM-01
For
LEKING WELLNESS CO.,LTD
Multimedia

Model No. : MM-01, MM-02, MM-03

Trade name : Saunalux, Saunaking, Veegee

Prepared for : LEKING WELLNESS CO.,LTD

Address : No.34, HehuanRoad,High-Tech Development Zone, Hefei, Anhui,
China

Prepared by : Shenzhen Alpha Product Testing Co., Ltd.

Address : Building B, East Area of Nanchang Second, Industrial Zone,
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Report No. : T1870887 09

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Date of Report : June 30, 2017

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TEST REPORT DECLARATION

Applicant : LEKING WELLNESS CO.,LTD
Manufacturer : LEKING WELLNESS CO.,LTD
EUT Description : Multimedia
(A) Model No. : MM-01, MM-02, MM-03
(B) Trademark : Saunalux, Saunaking, Veegee
(C) Ratings Supply : DC 12V
(D) Test Voltage : DC 12V from DC Port

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C 2016,
ANSI C63.4:2014, ANSI C63.10:2013

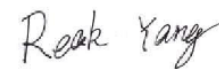
The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

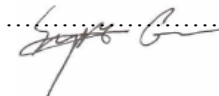
Tested by (name + signature).....:

Reak Yang
Project Manager



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue.....

June 30, 2017

1 General Information

1.1 Description of Device (EUT)

Trade Name	: Saunalux, Saunaking, Veegee
EUT	: Multimedia
Model No.	M-01, MM-02, MM-03
DIFF.	: All models are electrically identical, only model no is different
Antenna Type	: Integral antenna : 0.8dBi
Operation Frequency	: IEEE 802.11b/g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz
Channel number	: IEEE 802.11b/g:11Channels IEEE 802.11n HT20: 11 Channels IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
Modulation type	: IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)
Power Supply	: DC 12V from DC Port
Applicant	: LEKING WELLNESS CO.,LTD
Address	: No.34, HehuanRoad,High-Tech Development Zone, Hefei, Anhui, China
Manufacturer	: LEKING WELLNESS CO.,LTD
Address	: No.34, HehuanRoad,High-Tech Development Zone, Hefei, Anhui, China

1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

FCC Registered No.: 203110

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Cal Due	Cal Interval
3m Semi-Anechoic	CHENYU	N/A	N/A	2010.07.21	4Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2017.09.29	1Year
Receiver	R&S	ESPI	101873	2017.09.29	1Year
Receiver	R&S	ESCI	101165	2017.09.29	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB9168-438	2017.09.30	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.09.30	2Year
Cable	Resenberger	N/A	No.1	2017.09.29	1Year
Cable	SCHWARZBECK	N/A	No.2	2017.09.29	1Year
Cable	SCHWARZBECK	N/A	No.3	2017.09.29	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2017.09.29	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2017.09.29	1Year
vector Signal Generator	Agilent	N5182A	MY49060042	2017.09.29	1 Year
vector Signal Generator	Agilent	E4438C	US44271917	2017.09.29	1 Year
X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54080020	2017.09.29	1 Year
X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54110001	2017.09.29	1 Year

Signal Analyzer	Agilent	N9020A	MY48030494	2017.09.29	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.09.29	1 Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2017.09.29	1 Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a 50 μ H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard ANSI C63.4:2014 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB = 44.46 dBuV/m @ 3m

ANSI STANDARD ANSI C63.4:2014 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard ANSI C63.4:2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

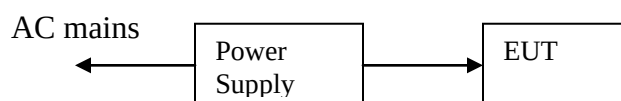
4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15 : 2016 & IC RSS-247	Section 15.247&15.209 & RSS-Gen 8.9 8.10	Compliance
Conduction Emission	FCC PART 15 : 2016 & IC RSS Gen	Section 15.207&8.8	Compliance
Bandwidth Test	FCC PART 15 : 2016 & IC RSS-247	Section 15.247& RSS-247 5.1(a)	Compliance
Peak Power	FCC PART 15 : 2016 & IC RSS-247	Section 15.247 & RSS-247 5.4(d)	Compliance
Power Density	FCC PART 15 : 2016 & IC RSS-247	Section 15.247 & Section 5.2(b)	Compliance
Band Edge	FCC PART 15 : 2016 & IC RSS-247	Section 15.247 & Section 5.5	Compliance
Antenna Requirement	FCC PART 15 : 2016 & IC RSS Gen	Section 15.203&8.3	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The adapter be used during Test)

4.2 Test connection



4.3 Assistant equipment used for test

Description	:	Power Supply
Manufacturer	:	JUNKE
Model No.	:	JK12010S

4.4 Test mode

Duty cycle :100% Keeping TX			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11 n/HT20 with 2.4G	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
Note: According exploratory test, EUT will have maximum output power in those data rate. so those data rate were used for all test.			

4.5 Channel list

For IEEE 802.11b/g and IEEE 802.11n/HT20 with 2.4G					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH1	2412	CH5	2432	CH9	2452
CH2	2417	CH6	2437	CH10	2457
CH3	2422	CH7	2442	CH11	2462
CH4	2427	CH8	2447		

4.6 Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

4.7 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.71dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.90dB	Polarize: V
	3.92dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.28dB	Polarize: H
	4.26dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.16dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

5 Spurious Emission

5.1 Radiation Emission

5.1.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

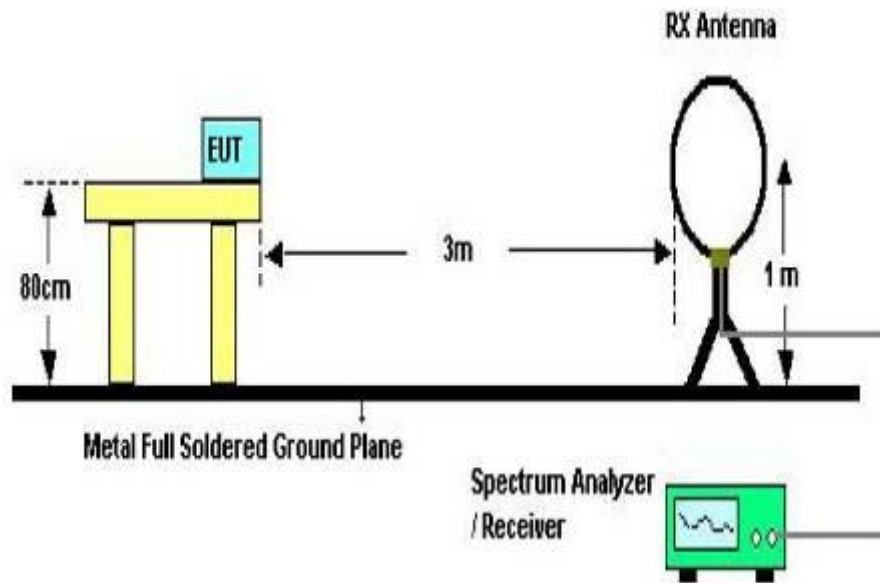
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

NOTE:

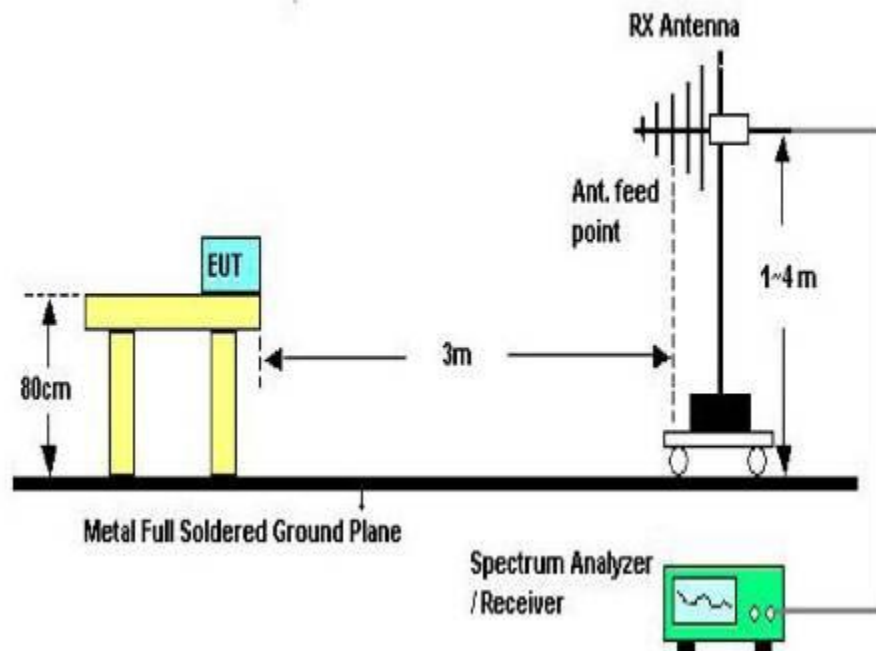
- The tighter limit applies at the band edges.
- Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.1.2 Test Setup

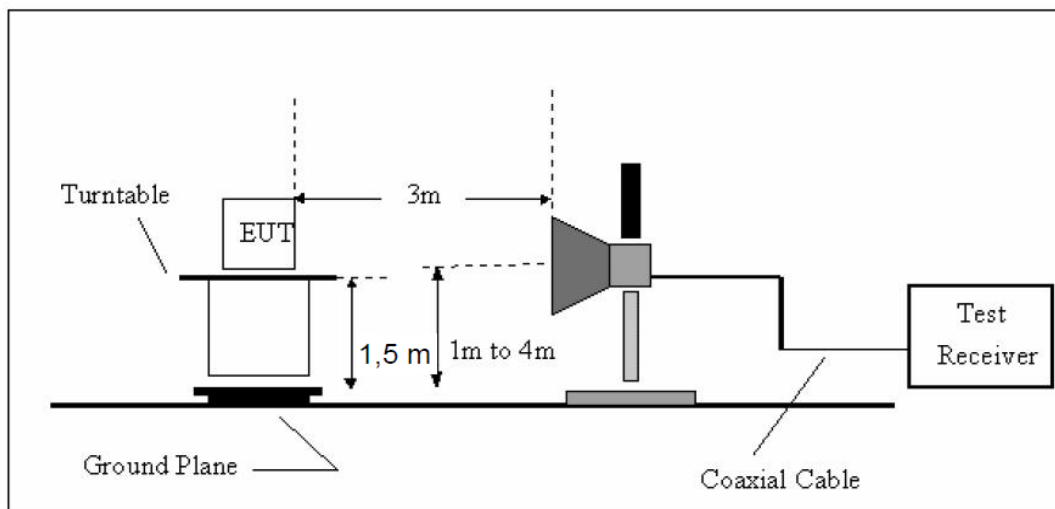
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.1.3 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- d) If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- e) For the actual test configuration, please see the test setup photo.

5.1.4 Test Equipment Setting For emission test Result

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

5.1.5 Test Condition

Continual Transmitting in maximum power.

5.1.6 Test Result

We have scanned the 9KHz from 25GHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

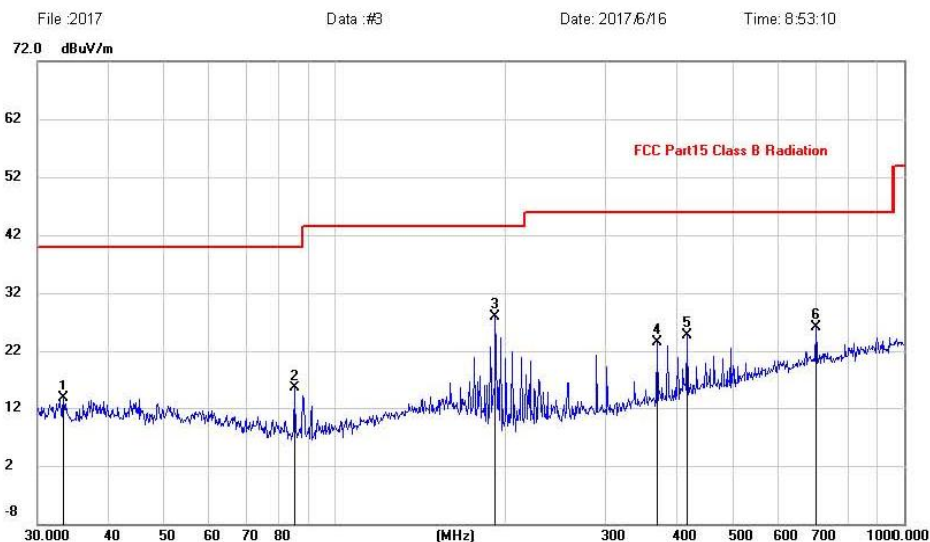
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Site: LAB
 Limit: FCC Part15 Class B Radiation
 EUT:
 M/N:
 Mode:
 Note:

Polarization: **Vertical**
 Power:
 Distance: 3m

Temperature: 23.5
 Humidity: 51 %

Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		33.3279	0.22	13.44	13.66	40.00	-26.34	peak		
2		84.7019	5.80	9.65	15.45	40.00	-24.55	peak		
3	*	191.7450	16.99	10.82	27.81	43.50	-15.69	peak		
4		368.1116	8.41	15.06	23.47	46.00	-22.53	peak		
5		416.1791	8.61	16.00	24.61	46.00	-21.39	peak		
6		701.7610	5.77	20.40	26.17	46.00	-19.83	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

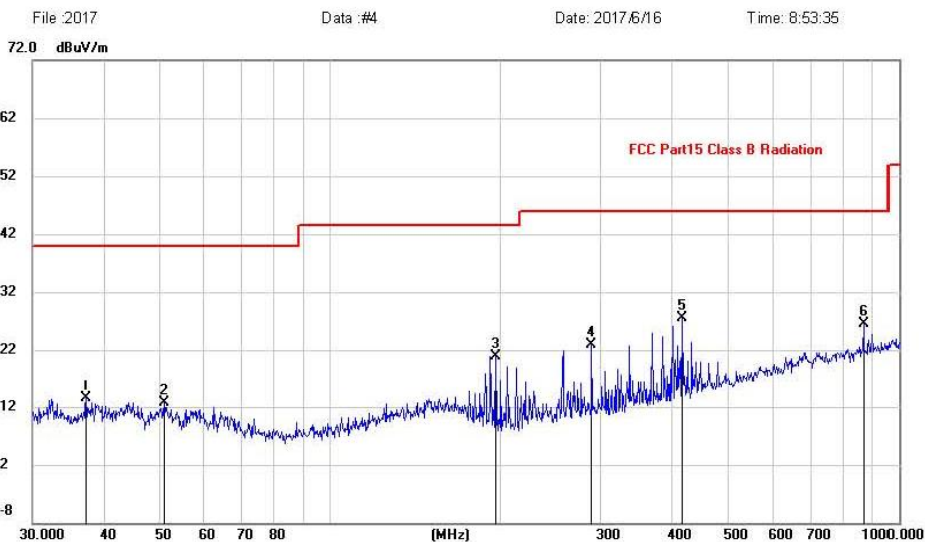
2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Site: LAB
 Limit: FCC Part15 Class B Radiation
 EUT:
 M/N:
 Mode:
 Note:

Polarization: **Horizontal**
 Power:
 Distance: 3m

Temperature: 23.5
 Humidity: 51 %

Radiated Emission Measurement



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.4165	-0.22	13.82	13.60	40.00	-26.40	peak		
2		50.9420	-1.03	13.64	12.61	40.00	-27.39	peak		
3		195.8220	10.39	10.58	20.97	43.50	-22.53	peak		
4		287.9904	9.73	13.09	22.82	46.00	-23.18	peak		
5	*	416.1791	11.52	16.00	27.52	46.00	-18.48	peak		
6		869.1302	3.82	22.69	26.51	46.00	-19.49	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement = Reading Level + Correct Factor; Correct Factor = Antenna Factor + Cable Loss.

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Page: 1

Engineer Signature:

Remark: All modes and channels have been tested and only worst data of 802.11b, 2412MHz is listed in this report.

From 1G-25GHz

IEEE 802.11b

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1124	V	44.74	---	-11.24	33.50	---	74	54	40.50	Peak
4824	V	39.32	---	0.64	39.96	---	74	54	34.04	Peak
N/A										

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1124	H	43.92	---	-11.24	32.68	---	74	54	41.32	Peak
4824	H	37.71	---	0.64	38.35	---	74	54	35.65	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1124	V	43.31	---	-11.24	32.07	---	74	54	41.93	Peak
4874	V	38.71	---	0.76	39.47	---	74	54	34.53	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1103	H	45.30	---	-11.24	34.06	---	74	54	39.94	Peak
4874	H	38.88	---	0.76	39.64	---	74	54	34.36	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1103	V	43.61	---	-11.24	32.37	---	74	54	41.63	Peak
4924	V	37.39	---	0.87	38.26	---	74	54	35.74	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1103	H	43.67	---	-11.24	32.43	---	74	54	41.57	Peak
4924	H	36.14	---	0.87	37.01	---	74	54	36.99	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g:

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1129	V	44.57	---	-11.24	33.33	---	74	54	40.67	Peak
2573	V	45.31	---	-7.13	38.18	---	74	54	35.82	Peak
3128	V	45.44	---	-5.74	39.70	---	74	54	34.30	Peak
4824	V	41.91	---	0.64	42.55	---	74	54	31.45	Peak
N/A										

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1263	H	43.83	---	-10.96	32.87	---	74	54	41.13	Peak
2059	H	43.85	---	-8.58	35.27	---	74	54	38.73	Peak
3391	H	43.09	---	-4.95	38.14	---	74	54	35.86	Peak
4824	H	41.50	---	0.64	42.14	---	74	54	31.86	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1376	V	43.77	---	-10.43	33.34	---	74	54	40.66	Peak
2564	V	44.83	---	-7.13	37.70	---	74	54	36.30	Peak
3342	V	44.08	---	-5.18	38.90	---	74	54	35.10	Peak
4874	V	41.72	---	0.76	42.48	---	74	54	31.52	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1317	H	43.10	---	-10.84	32.26	---	74	54	41.74	Peak
2362	H	44.98	---	-7.46	37.52	---	74	54	36.48	Peak
3551	H	43.33	---	-4.76	38.57	---	74	54	35.43	Peak
4874	H	40.82	---	0.76	41.58	---	74	54	32.42	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1325	V	44.93	---	-10.84	34.09	---	74	54	39.91	Peak
2902	V	44.38	---	-5.86	38.52	---	74	54	35.48	Peak
3846	V	44.36	---	-3.96	40.40	---	74	54	33.60	Peak
4924	V	40.68	---	0.87	41.55	---	74	54	32.45	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1439	H	44.23	---	-10.29	33.94	---	74	54	40.06	Peak
2143	H	44.86	---	-8.24	36.62	---	74	54	37.38	Peak
3712	H	44.69	---	-3.68	41.01	---	74	54	32.99	Peak
4924	H	40.89	---	0.87	41.76	---	74	54	32.24	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT20 with 2.4G

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1347	V	44.72	---	-10.27	34.45	---	74	54	39.55	Peak
2651	V	45.00	---	-6.94	38.06	---	74	54	35.94	Peak
3916	V	45.06	---	-3.68	41.38	---	74	54	32.62	Peak
4824	V	40.32	---	0.64	40.96	---	74	54	33.04	Peak
N/A										

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Low		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1451	H	43.95	---	-10.27	33.68	---	74	54	40.32	Peak
2864	H	44.58	---	-6.17	38.41	---	74	54	35.59	Peak
3659	H	42.95	---	-4.52	38.43	---	74	54	35.57	Peak
4824	H	40.86	---	0.64	41.50	---	74	54	32.50	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1351	V	44.29	---	-10.96	33.33	---	74	54	40.67	Peak
2154	V	44.10	---	-8.58	35.52	---	74	54	38.48	Peak
3407	V	42.54	---	-4.07	38.47	---	74	54	35.53	Peak
4874	V	39.75	---	0.76	40.51	---	74	54	33.49	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX Mid		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1206	H	43.76	---	-10.14	33.62	---	74	54	40.38	Peak
2454	H	45.27	---	-7.59	37.68	---	74	54	36.32	Peak
3202	H	43.09	---	-5.39	37.70	---	74	54	36.30	Peak
4874	H	40.37	---	0.76	41.13	---	74	54	32.87	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1374	V	44.57	---	-10.27	34.30	---	74	54	39.70	Peak
2036	V	44.60	---	-6.43	38.17	---	74	54	35.83	Peak
3651	V	44.44	---	-4.76	39.68	---	74	54	34.32	Peak
4924	V	40.36	---	0.87	41.23	---	74	54	32.77	Peak

EUT	Multimedia	Model Name	MM-01
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC port
Test Mode	TX High		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1315	H	43.16	---	-10.14	33.02	---	74	54	40.98	Peak
3483	H	44.37	---	-4.96	39.41	---	74	54	34.59	Peak
4117	H	43.25	---	-2.48	40.77	---	74	54	33.23	Peak
4924	H	39.97	---	0.87	40.84	---	74	54	33.16	Peak

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.207)

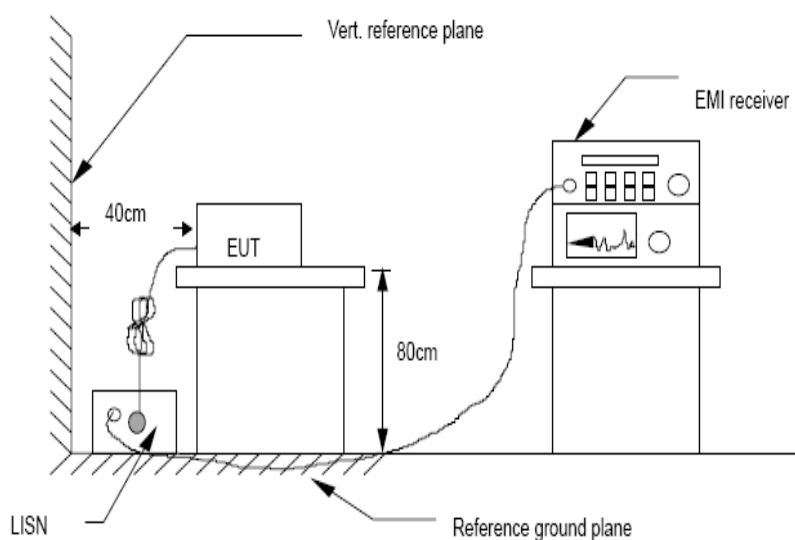
Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and 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 lines 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 ANSI C63.4:2014 on Conducted Emission Measurement. The bandwidth of test receiver is set at 9 kHz.

6.4 Test Results

Worse case is reported only

PASS

Detailed information please see the following page.

Site: LAB

Phase: **N**

Temperature: 24.2

Limit: FCC Part 15 CLASS B QP

Power: DC 12V

Humidity: 53 %

EUT:

M/N:

Mode:

Note:

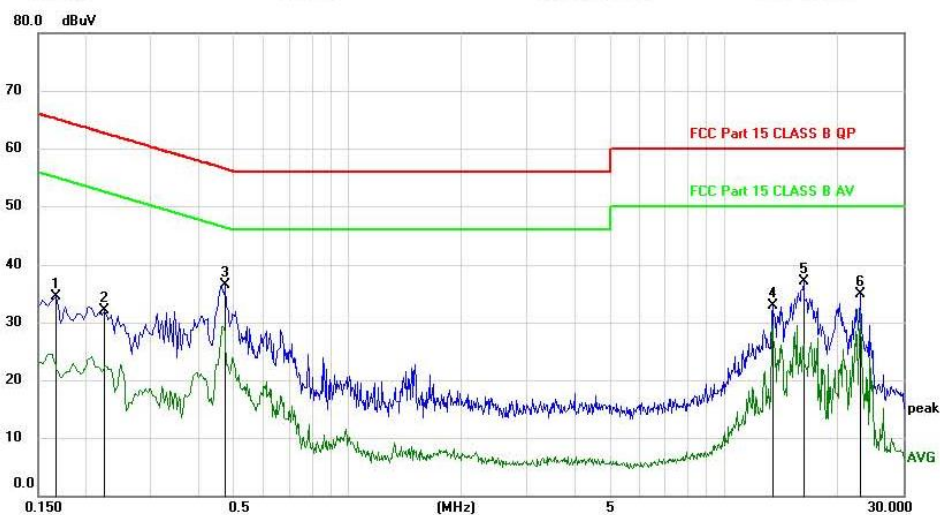
Conducted Emission Measurement

File: BS

Data: #4

Date: 2017-6-19

Time: 18:08:02



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1680	24.89	9.66	34.55	65.06	-30.51	peak	
2		0.2265	22.48	9.68	32.16	62.58	-30.42	peak	
3	*	0.4740	26.85	9.71	36.56	56.44	-19.88	peak	
4		13.4205	22.48	10.35	32.83	60.00	-27.17	peak	
5		16.2285	26.60	10.45	37.05	60.00	-22.95	peak	
6		23.1315	24.19	10.66	34.85	60.00	-25.15	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor; Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

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Page: 1

Engineer Signature:

Site: LAB
 Limit: FCC Part 15 CLASS B QP
 EUT:
 M/N:
 Mode:
 Note:

Phase: **L1**
 Power: DC 12V

Temperature: 24.2
 Humidity: 53 %

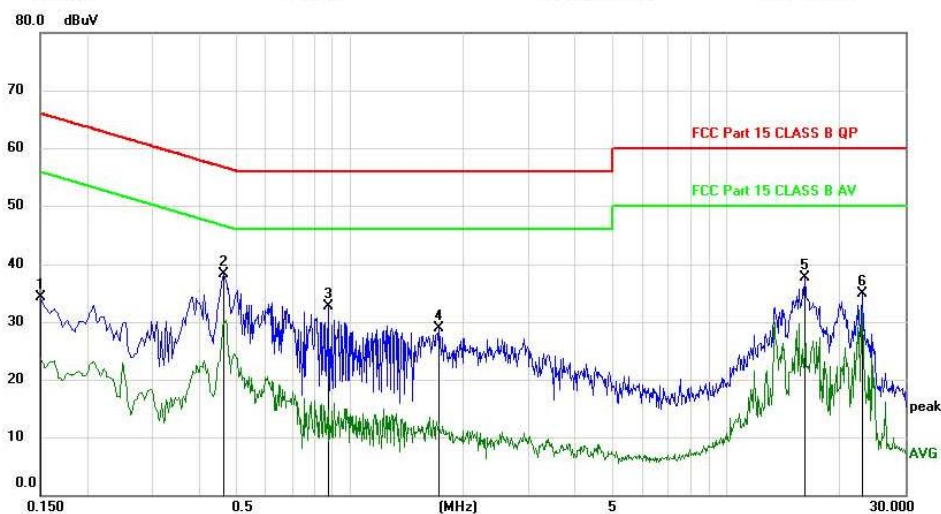
Conducted Emission Measurement

File: BS

Data: #3

Date: 2017-6-19

Time: 18:06:32



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	24.56	9.66	34.22	66.00	-31.78	peak	
2	*	0.4650	28.55	9.71	38.26	56.60	-18.34	peak	
3		0.8790	23.00	9.76	32.76	56.00	-23.24	peak	
4		1.7295	19.06	9.85	28.91	56.00	-27.09	peak	
5		16.1700	27.22	10.44	37.66	60.00	-22.34	peak	
6		23.1315	24.29	10.66	34.95	60.00	-25.05	peak	

*:Maximum data x:Over limit l:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor, Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

E:\EZ-EMC\Test Report\Times\BS-P10K.d

Page: 1

Engineer Signature:

Remark: All modes and channels have been tested and only worst data of 802.11b, 2412MHz is listed in this report.

7 Conducted Maximum Output Power

7.1 Test limit

Please refer section 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1W(30dBm)

7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

7.2.1 Place the EUT on the table and set it in transmitting mode.

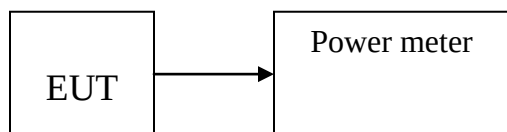
7.2.2 Connected the EUT's antenna port to peak power meter by 20dB attenuator.

7.2.3 Measure out each mode and each bands peak output power of EUT.

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

Details see the KDB558074 DTS Meas Guidance V03

7.3 Test Setup



7.4 Test Results

PASS

Detailed information please see the following page.

EUT: Multimedia		M/N: MM-01		
Test date: 2017-06-19		Test site: RF site		Tested by: Reak
Mode	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Margin (dB)
IEEE 802.11 b	CH1: 2412	8.77	30	21.23
	CH6: 2437	9.63	30	21.64
	CH11: 2462	9.34	30	21.18
IEEE 802.11 g	CH1: 2412	13.89	30	23.06
	CH6: 2437	13.78	30	22.42
	CH11: 2462	14.64	30	22.04
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	10.23	30	23.08
	CH6: 2437	10.82	30	22.37
	CH11: 2462	11.94	30	22.03
Conclusion: PASS				

8 PEAK POWER SPECTRAL DENSITY

8.1 Test limit

8.1.1 Please refer section 15.247.

8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

8.2.1 Place the EUT on the table and set it in transmitting mode.

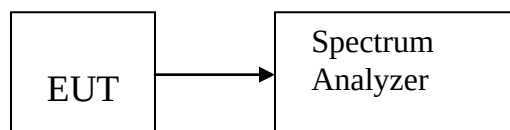
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

8.3 Test Setup



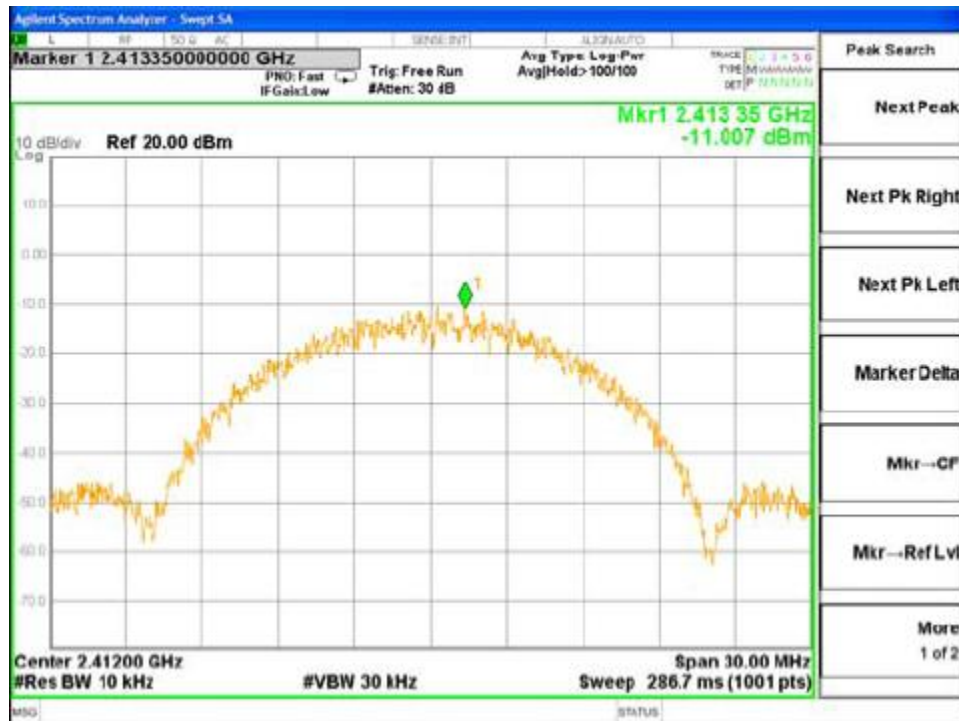
8.4 Test Results

PASS.

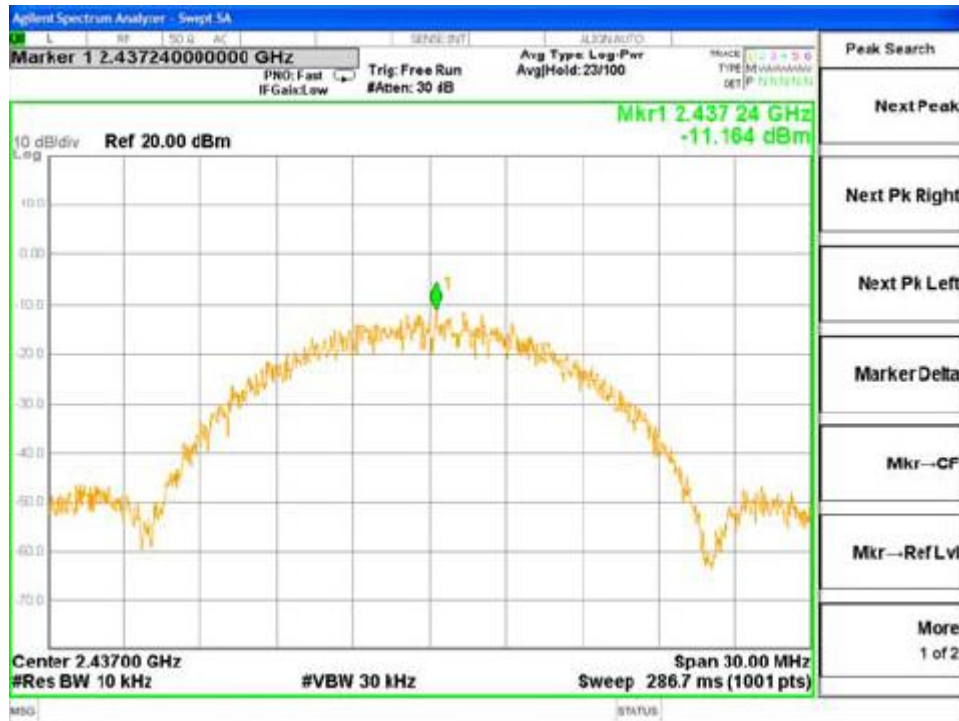
Detailed information please see the below.

EUT: Multimedia		M/N: MM-01			
Test date: 2017-06-19		Test site: RF site		Tested by: Reak	
Mode	Frequency (MHz)	PK Output power(dBm)		Limit (dBm)	Result
IEEE 802.11 b	CH1: 2412	-11.007		8	PASS
	CH6: 2437	-11.164		8	PASS
	CH11: 2462	-12.776		8	PASS
IEEE 802.11 g	CH1: 2412	-17.331		8	PASS
	CH6: 2437	-17.692		8	PASS
	CH11: 2462	-19.137		8	PASS
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	-17.631		8	PASS
	CH6: 2437	-17.848		8	PASS
	CH11: 2462	-18.692		8	PASS
Conclusion: PASS					

IEEE 802.11b :
CH Low :



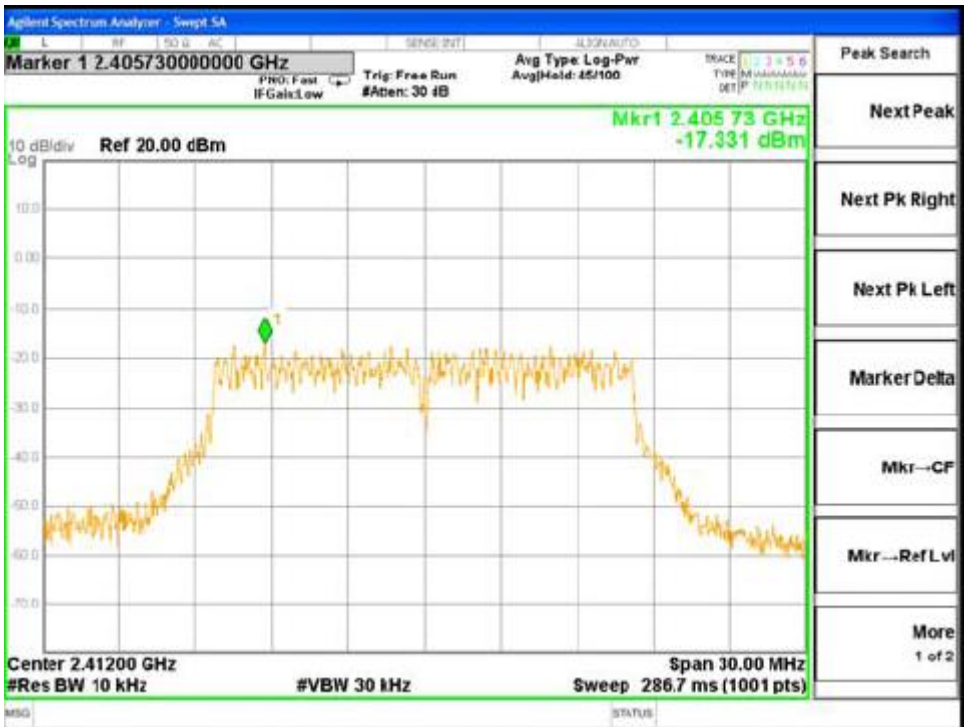
CH Mid:



CH Hig:



IEEE 802.11g :
CH Low



The screenshot displays an Agilent Spectrum Analyzer interface. The main display shows a signal spectrum with a peak at 2.43073 GHz and a level of -17.692 dBm. The center frequency is set to 2.43700 GHz, and the span is 30.00 MHz. The resolution bandwidth (RBW) is 10 kHz, and the video bandwidth (VBW) is 30 kHz. The sweep rate is 286.7 ms (1001 pts). The peak search function is active, and the peak is labeled 'Mkr1 2.43073 GHz -17.692 dBm'. The signal is identified as 'Marker 1 2.430730000000 GHz'. The peak search results are shown on the right side of the screen, including 'Peak Search', 'Next Peak', 'Next Pk Right', 'Next Pk Left', 'Marker Delta', 'Mkr--CF', 'Mkr--Ref Lvl', and 'More'.

Agilent Spectrum Analyzer - Sweep 5A

Marker 1 2.455730000000 GHz

Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr AvgHold: 74/100

TRACE 1 2.45573 GHz -19.137 dBm

TYPE: MATH:MAN DET: P

Ref 20.00 dBm

10 dB/div Log

Center 2.45200 GHz #Res BW 10 kHz #VBW 30 kHz Span 30.00 MHz Sweep 286.7 ms (1001 pts)

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

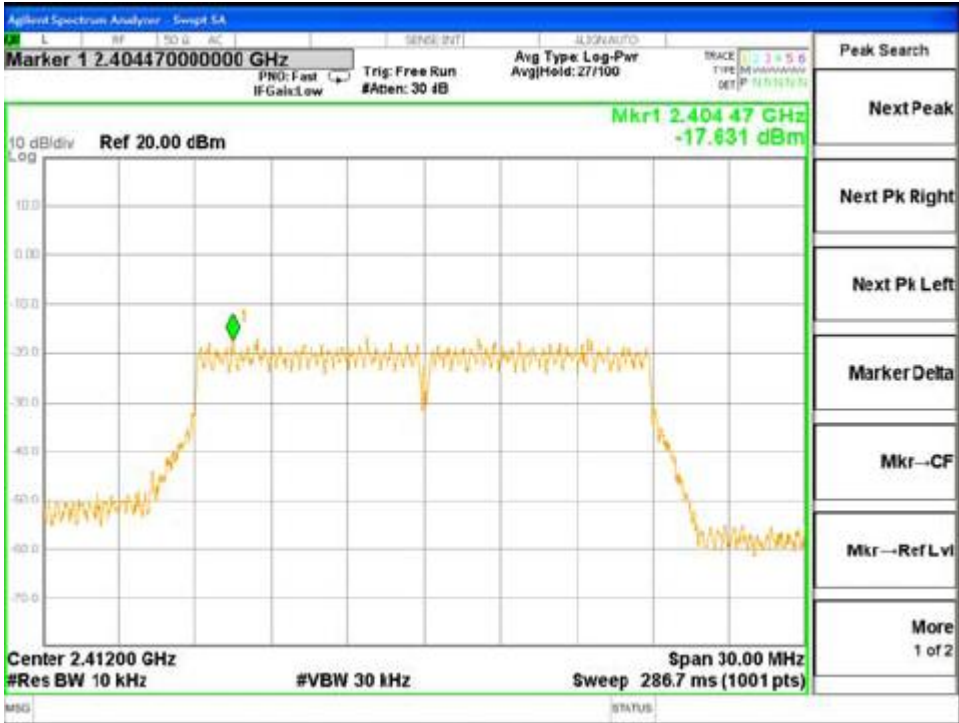
Mkr--CF

Mkr--Ref Lvl

More 1 of 2

MSG STATUS

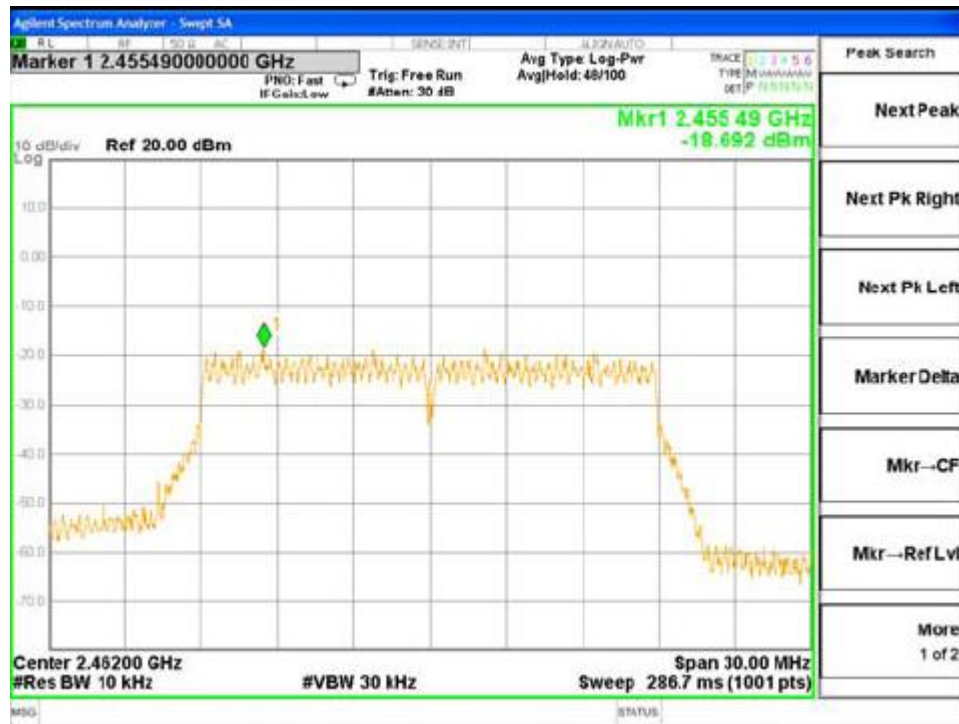
IEEE 802.11n HT20 :
CH Low :



CH Mid:



CH Hig:



9 Bandwidth

9.1 Test limit

Please refer section 15.247

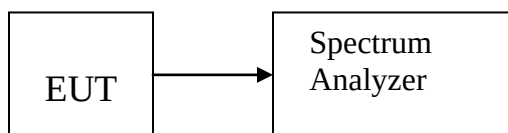
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set $RBW = 100\text{KHz}$, $VBW \geq 3RBW$, Peak Detector, Sweep time set auto, detail see the test plot.

9.3 Test Setup



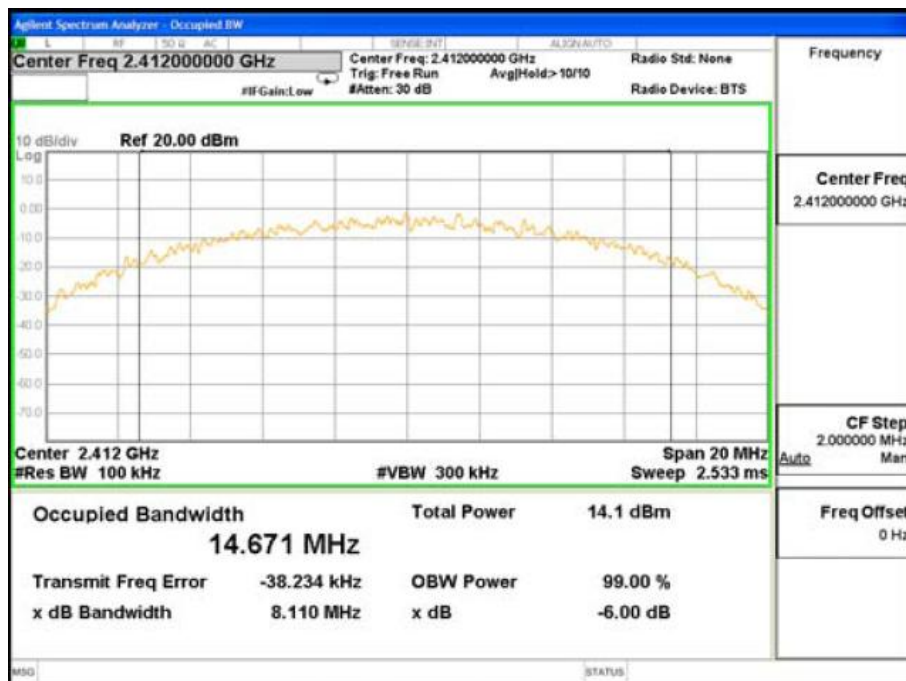
9.4 Test Results

PASS.

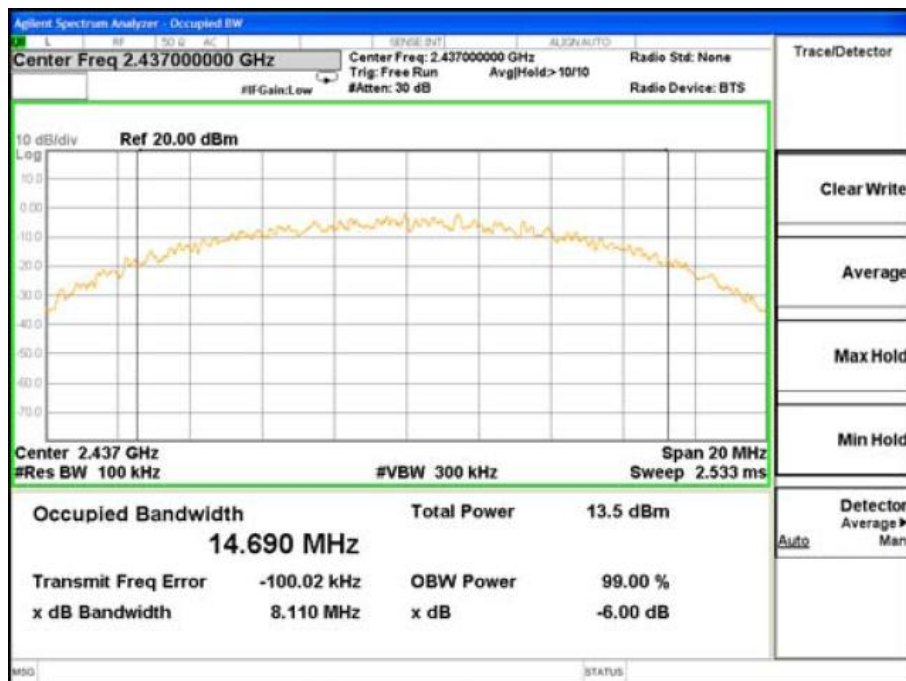
Detailed information please see the following page.

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:					
Low	2412	8.110	14.671	0.5	PASS
Mid	2437	8.110	14.69	0.5	PASS
High	2462	8.108	14.709	0.5	PASS
IEEE 802.11g					
Low	2412	16.44	16.422	0.5	PASS
Mid	2437	16.43	16.423	0.5	PASS
High	2462	16.43	16.424	0.5	PASS
IEEE 802.11n/HT20:					
Low	2412	17.75	17.67	0.5	PASS
Mid	2437	17.73	17.665	0.5	PASS
High	2462	17.73	17.668	0.5	PASS

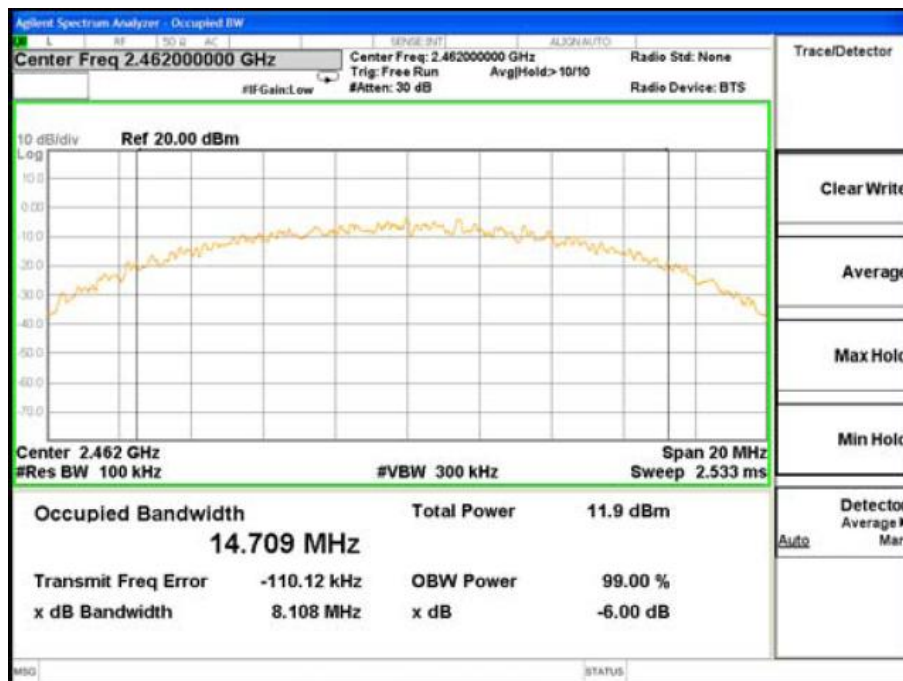
IEEE 802.11b:
CH Low :



CH Mid :



CH High :

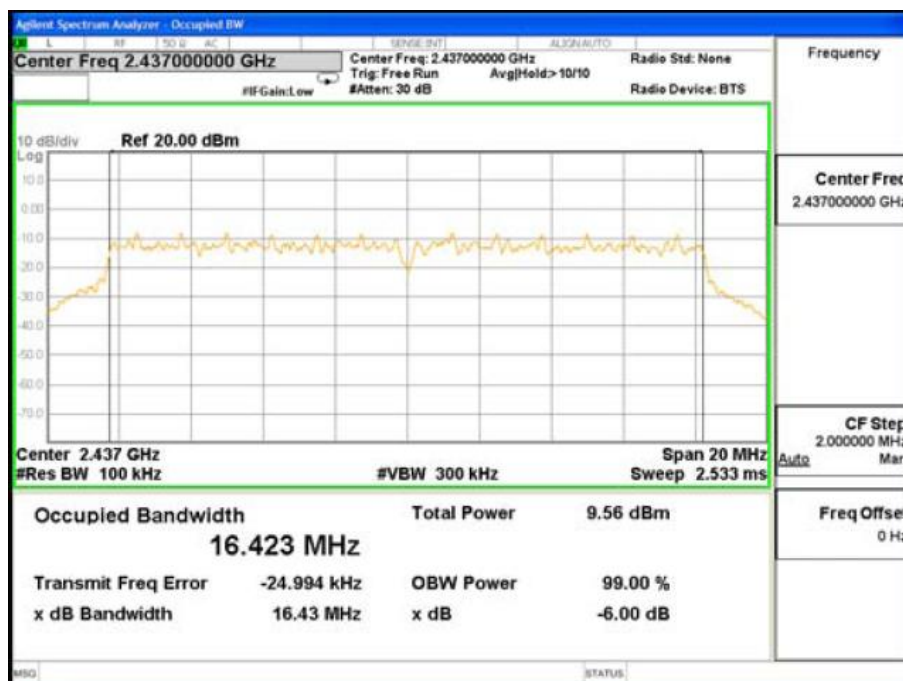


IEEE 802.11g:

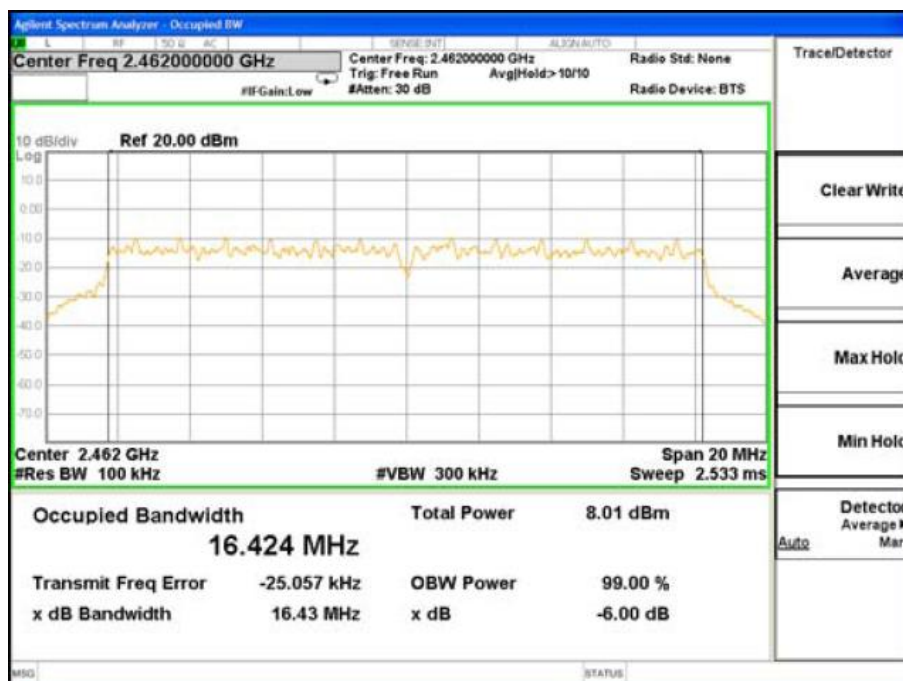
CH Low :



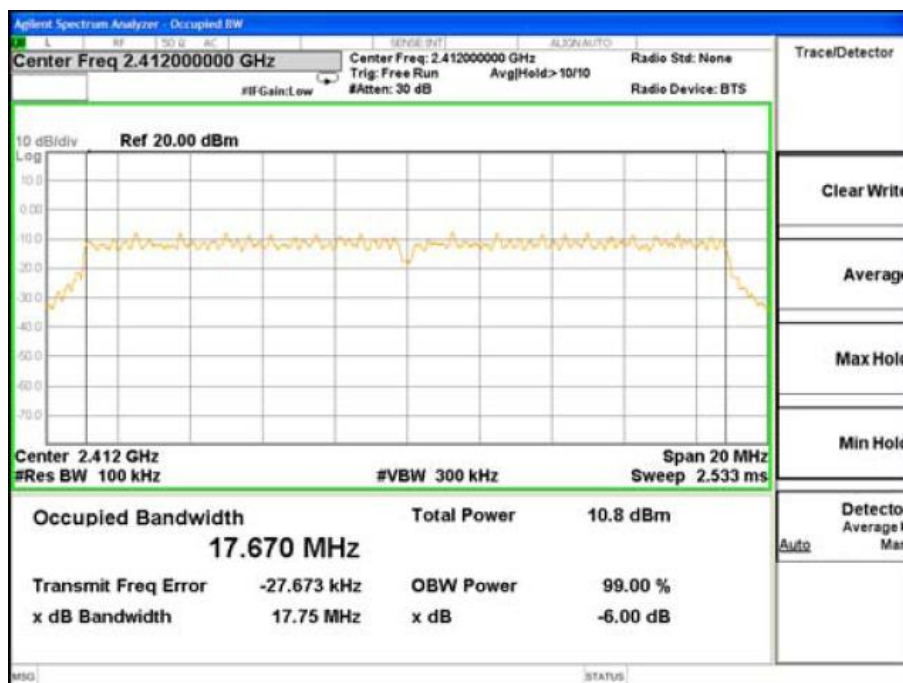
CH Mid:



CH Hig:



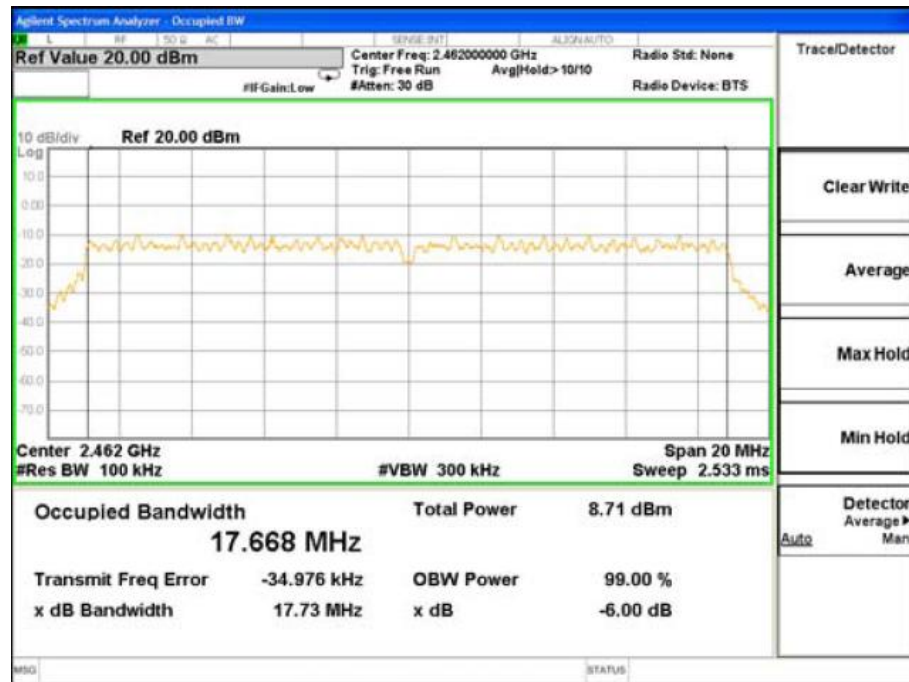
IEEE 802.11n HT20:
CH Low :



CH Mid :



CH High :



10 Band Edge Check

10.1 Test limit

Please refer section 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

10.2 Test Procedure

- 12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 12.2.2 Check the spurious emissions out of band.
- 12.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz , RMS detector for AV value.

10.3 Test Setup

Same as 5.2.2.

10.4 Test Result

PASS.

Detailed information please see the following page.

Band Edge Test result								
EUT: Multimedia			M/N: MM-01					
Power: DC 12V From DC port								
Test date: 2017-06-19			Test site: 3m Chamber			Tested by: Eric		
Test mode: TX Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	40.76	27.62	3.92	34.97	37.33	74	36.67	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	42.12	27.62	3.92	34.97	38.69	74	35.31	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto								
Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto								
Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result														
EUT: Multimedia				M/N: MM-01										
Power: DC 12V From DC port														
Test date: 2017-06-19			Test site: 3m Chamber		Tested by: Eric									
Test mode: TX High														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
2483.5	42.16	27.89	4	34.97	39.08	74	34.92	PK						
2483.5	--	27.89	4	34.97	--	54	--	AV						
Antenna Polarity: Horizontal														
2483.5	46.02	27.89	4	34.97	42.94	74	31.06	PK						
2483.5	--	27.89	4	34.97	--	54	--	AV						

Note:
 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto
 Detector: PK
 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto
 Detector: RMS
 3, Result = Read level + Antenna factor + cable loss-Amp factor
 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Band Edge Test result								
EUT: Multimedia			M/N: MM-01					
Power: DC 12V From DC port								
Test date: 2017-06-19			Test site: 3m Chamber			Tested by: Eric		
Test mode: TX Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	41.42	27.62	3.92	34.97	37.99	74	36.01	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	43.00	27.62	3.92	34.97	39.57	74	34.43	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto								
Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto								
Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

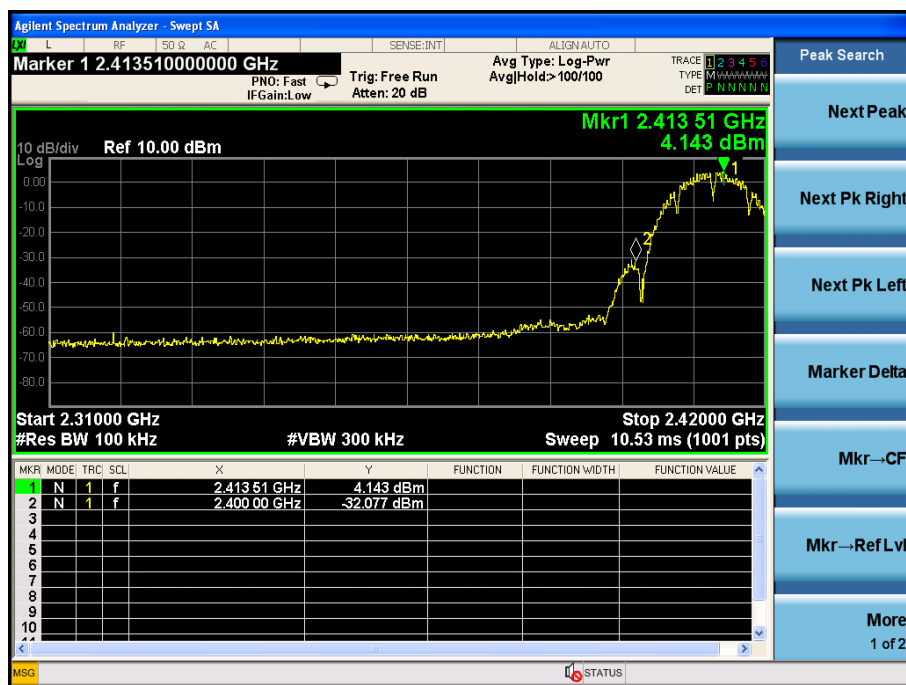
Band Edge Test result														
EUT: Multimedia				M/N: MM-01										
Power: DC 12V From DC port														
Test date: 2017-06-19			Test site: 3m Chamber			Tested by: Eric								
Test mode: TX High														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
2483.5	44.27	27.89	4	34.97	41.19	74	32.81	PK						
2483.5		--	--	--	--	54	--	AV						
Antenna Polarity: Horizontal														
2483.5	47.17	27.89	4	34.97	44.09	74	29.91	PK						
2483.5		--	--	--	--	54	--	AV						

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto
Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto
Detector: RMS
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

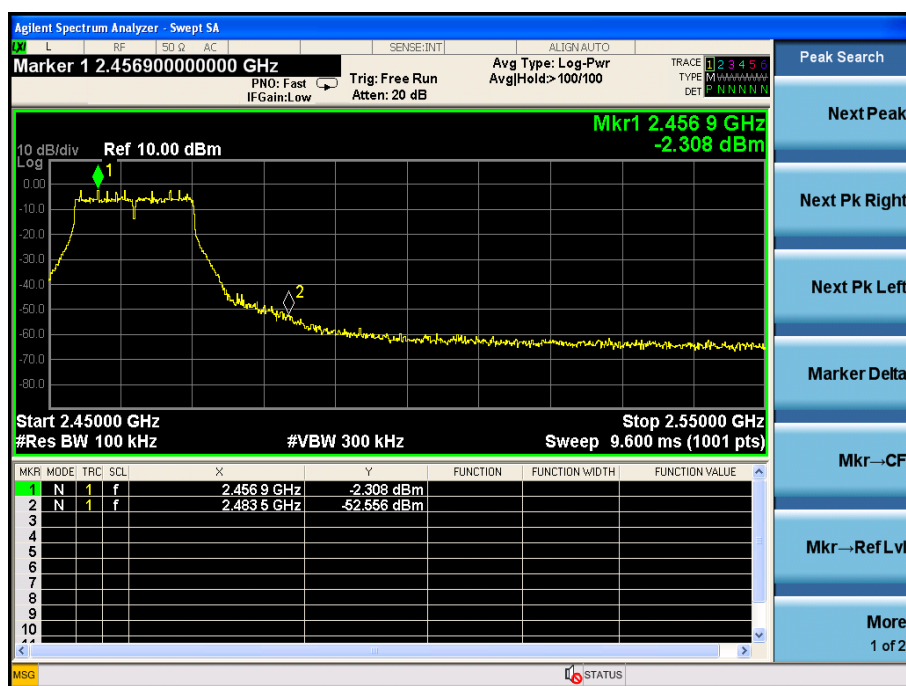
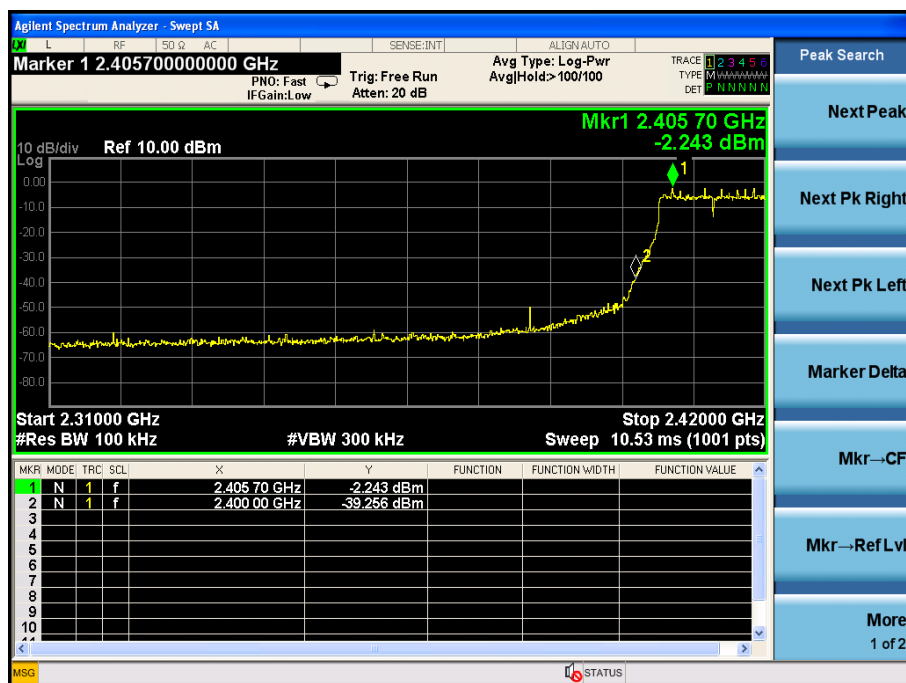
Band Edge Test result								
EUT: Multimedia			M/N: MM-01					
Power: DC 12V From DC port								
Test date: 2017-06-19			Test site: 3m Chamber			Tested by: Eric		
Test mode: TX Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	40.44	27.62	3.92	34.97	37.01	74	36.99	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	42.27	27.62	3.92	34.97	38.84	74	35.16	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

Band Edge Test result								
EUT: Multimedia			M/N: MM-01					
Power: DC 12V From DC port								
Test date: 2017-06-19			Test site: 3m Chamber			Tested by: Eric		
Test mode: TX High								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	34.72	27.89	4	34.97	31.64	74	42.36	PK
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	46.02	27.89	4	34.97	42.94	74	31.06	PK
2483.5		--	--	--	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

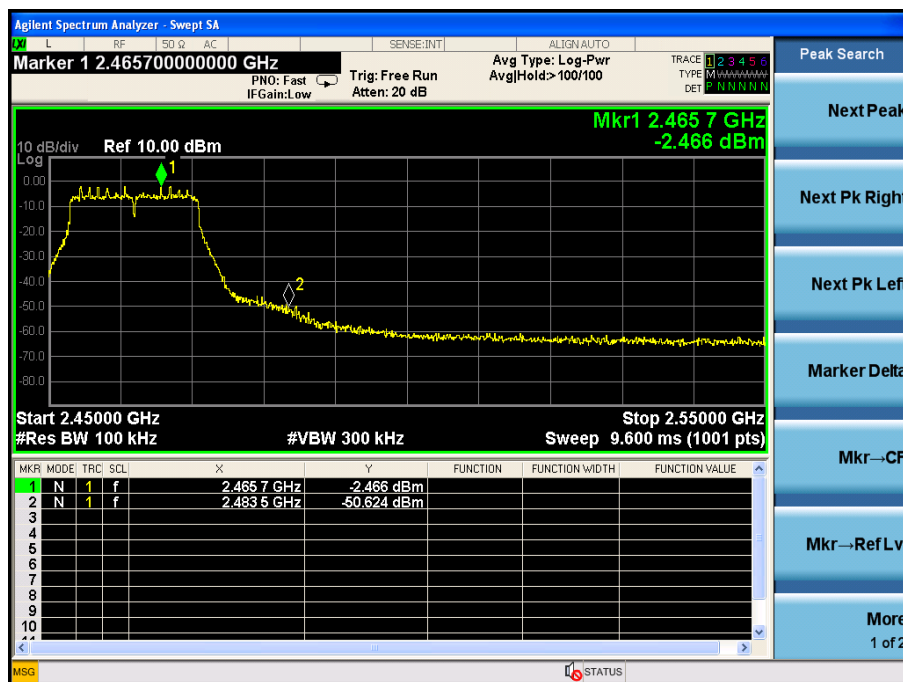
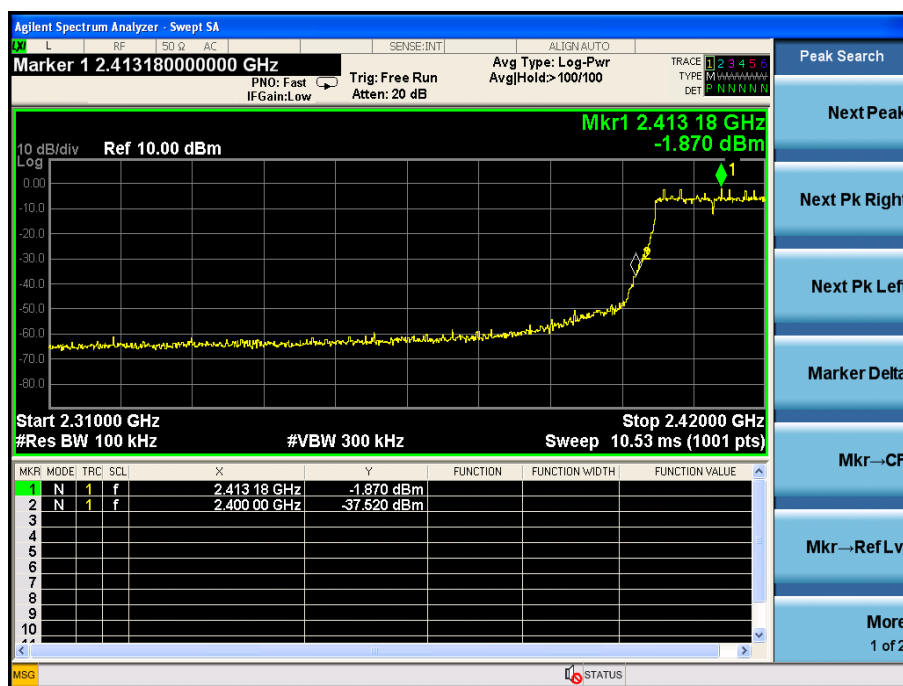
802.11b



802.11g



802.11n HT20



11 Antenna Requirement

11.1 Standard 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 shall be considered sufficient to comply with the provisions of this Section. 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.

11.2 Antenna Connected Construction

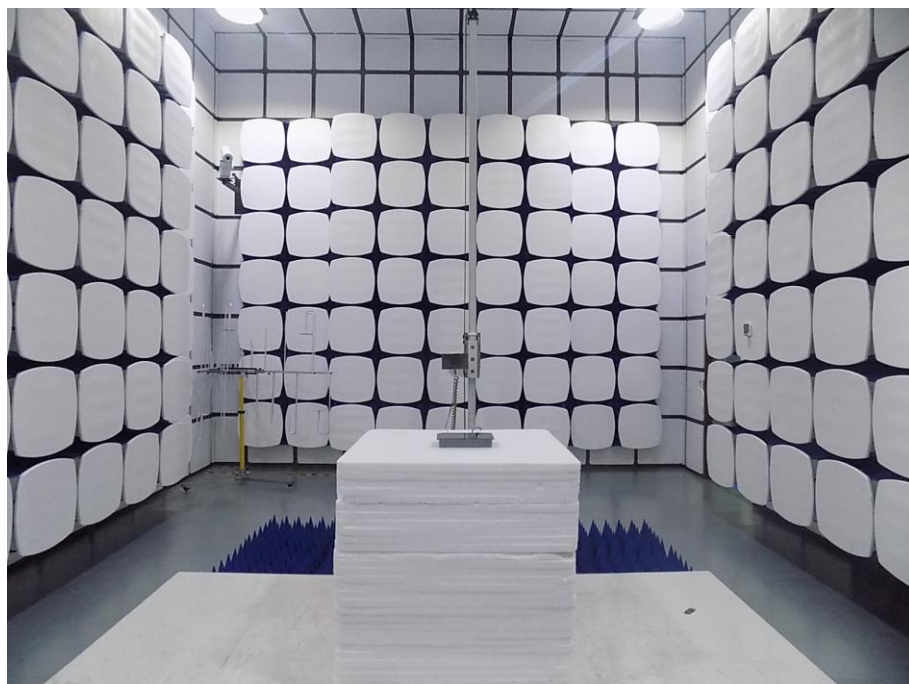
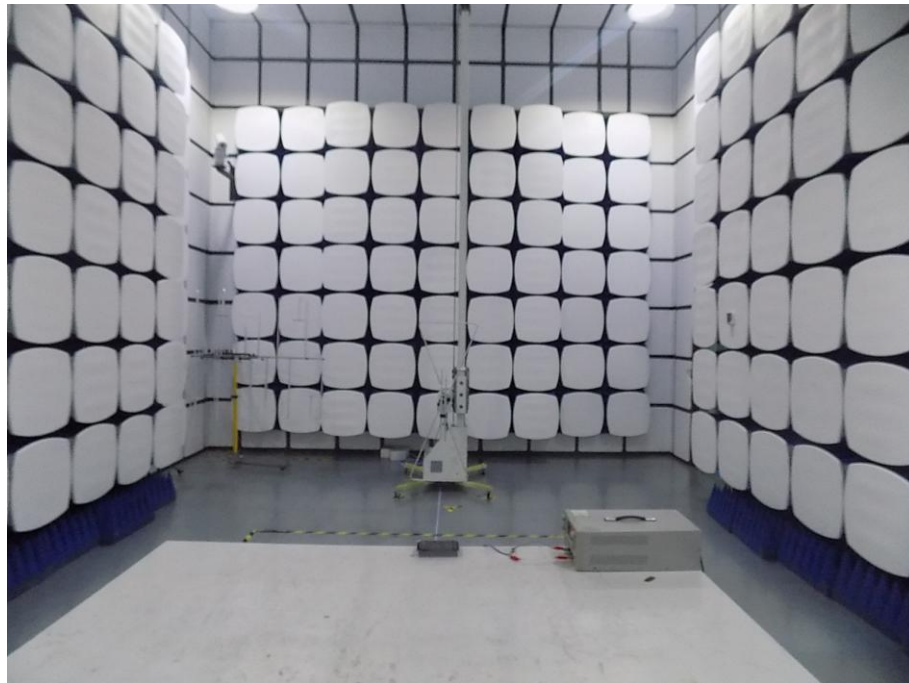
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

11.3 Result

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

12 Test setup photo

12.1 Photos of Radiated emission

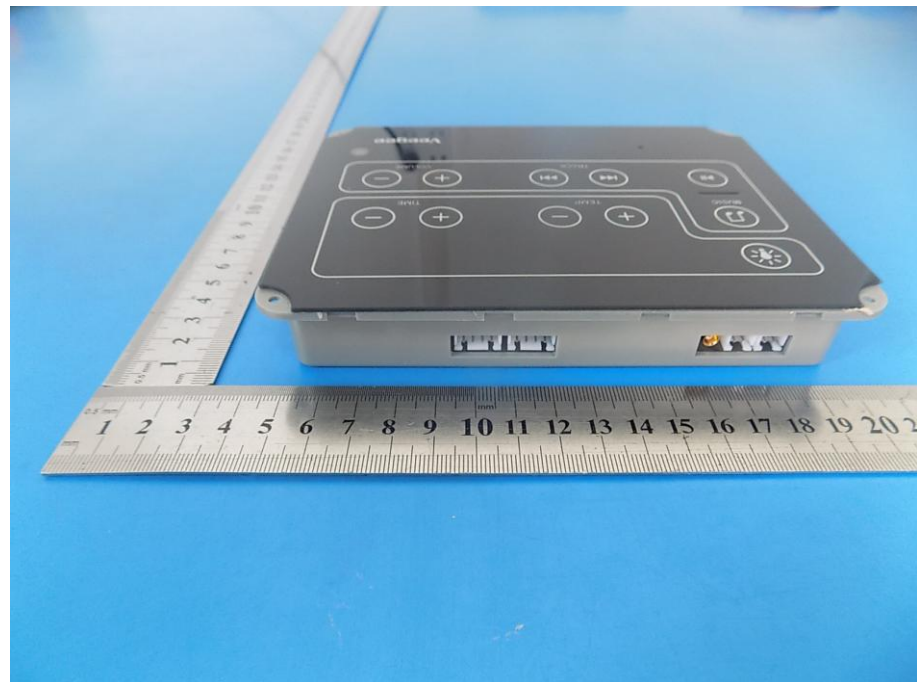
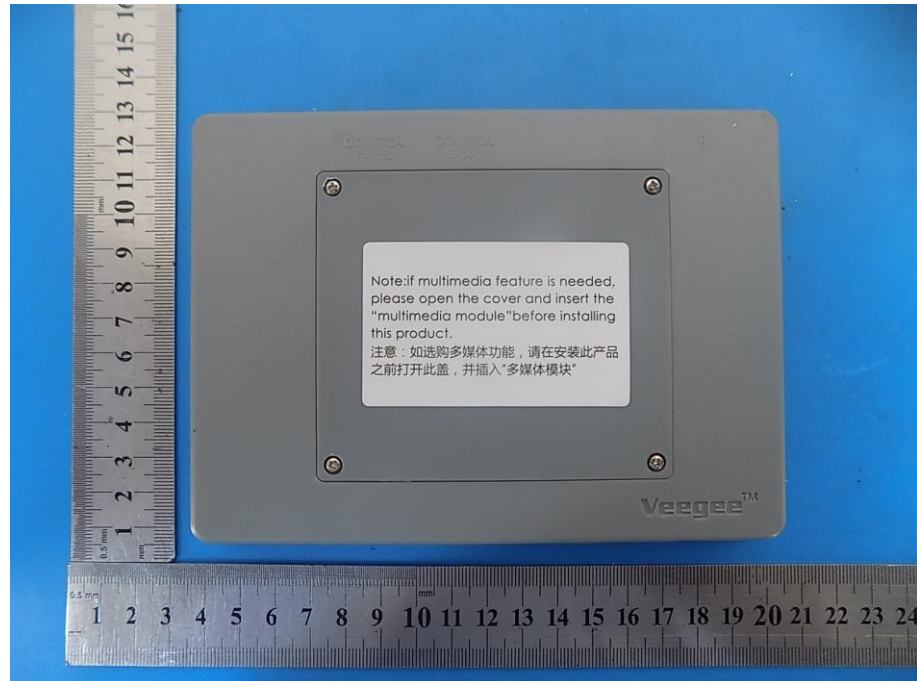


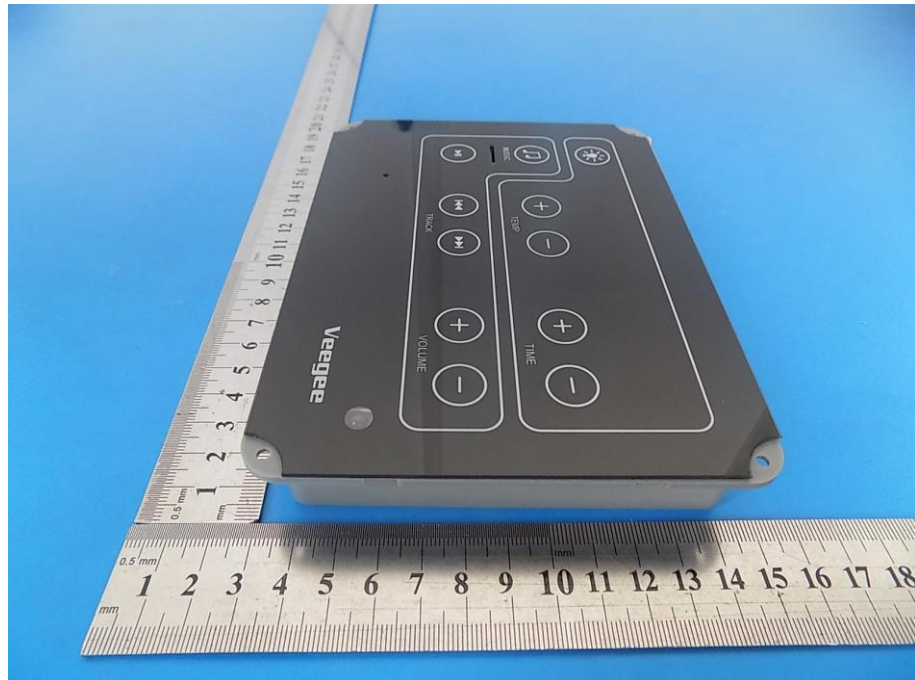
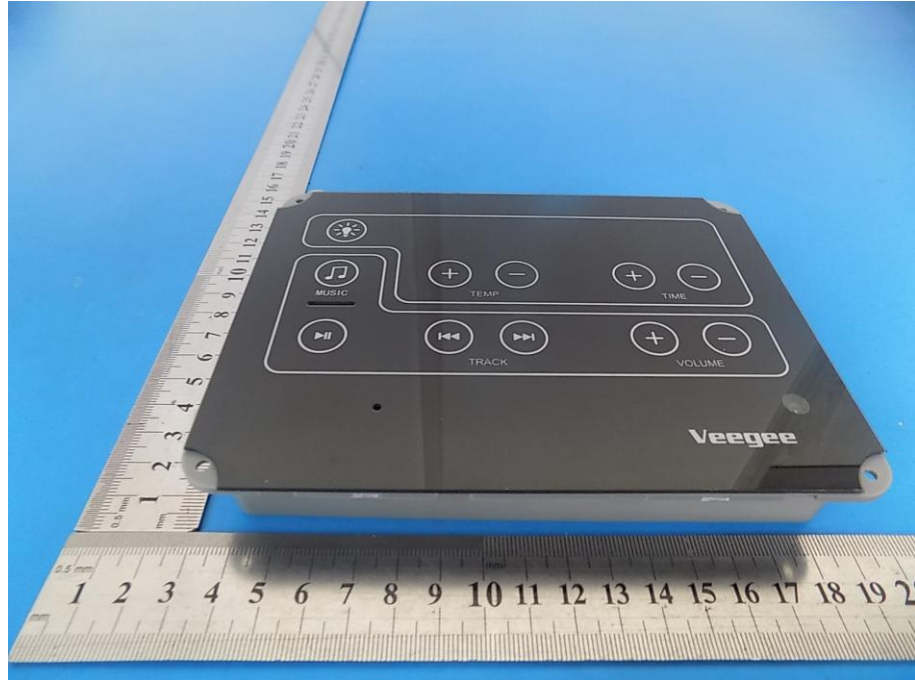
12.2 Photos of Conducted Emission test

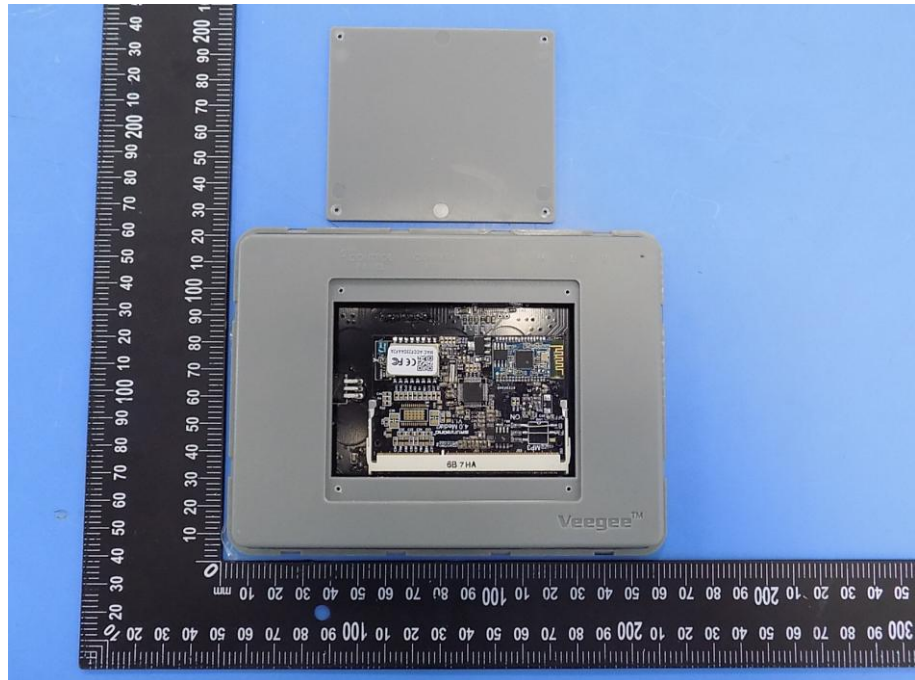
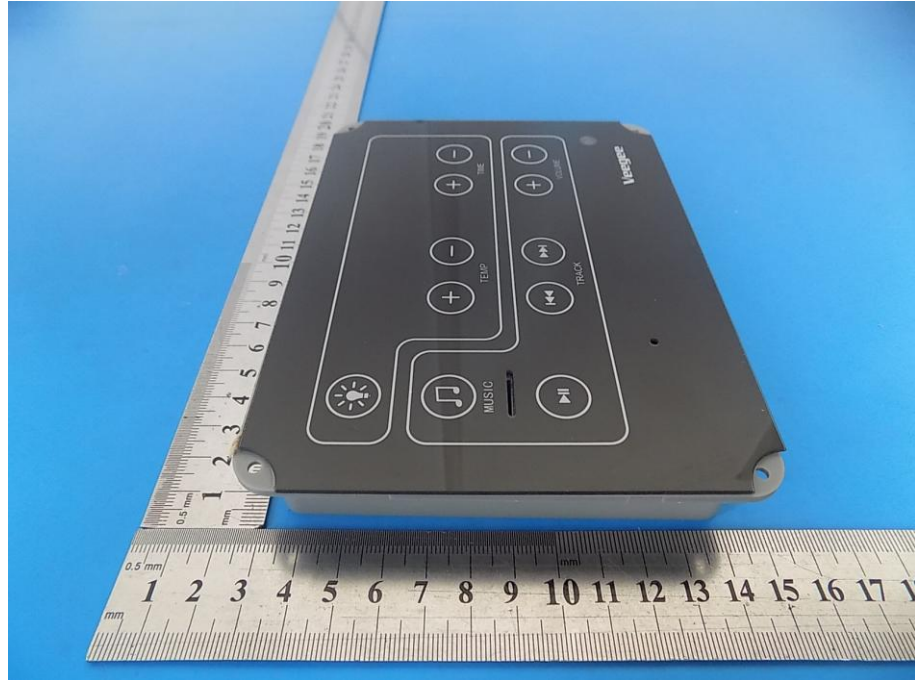


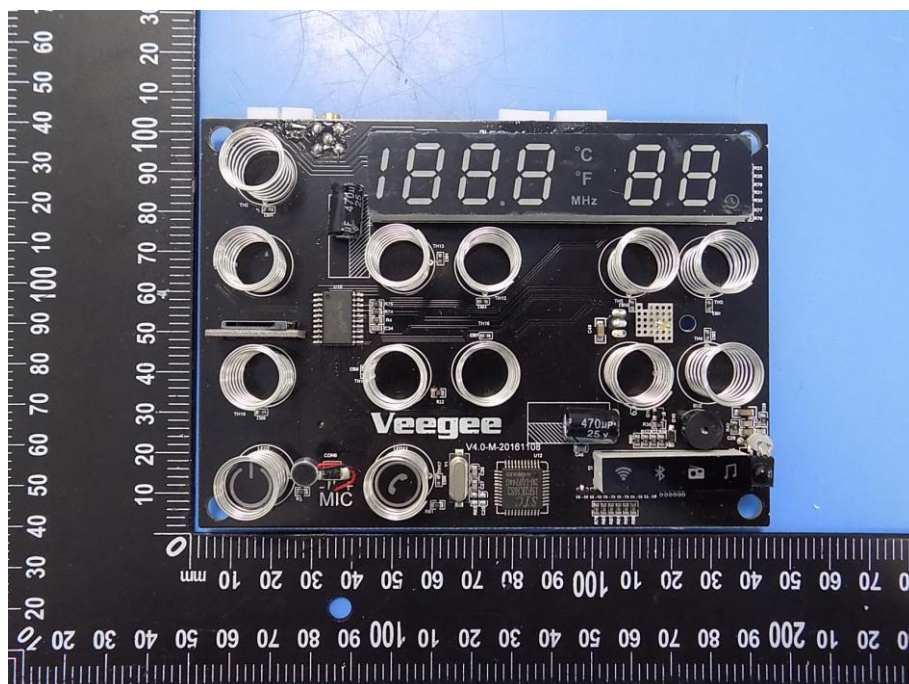
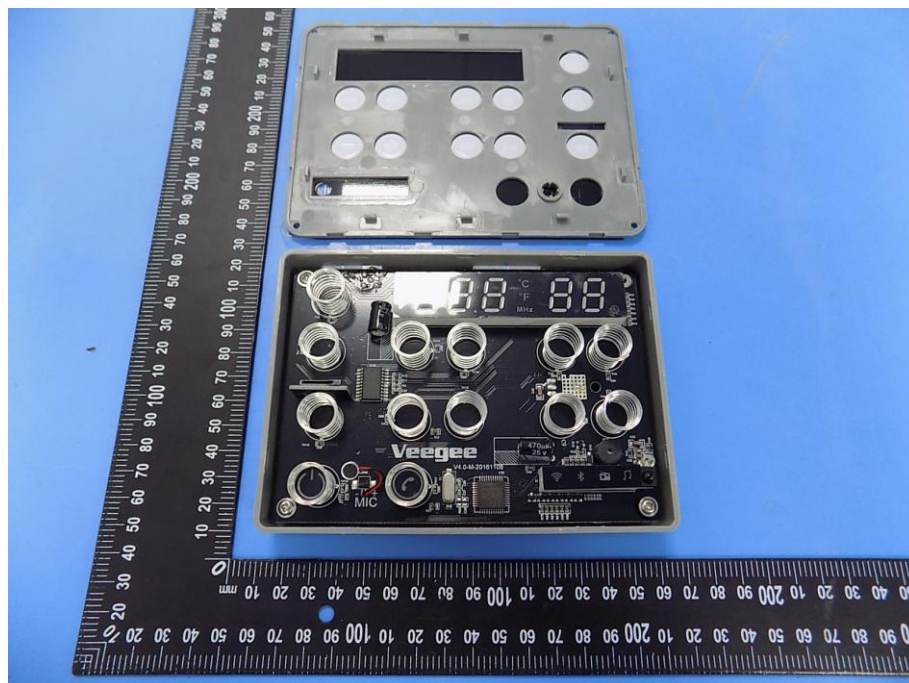
13 Photographs of EUT

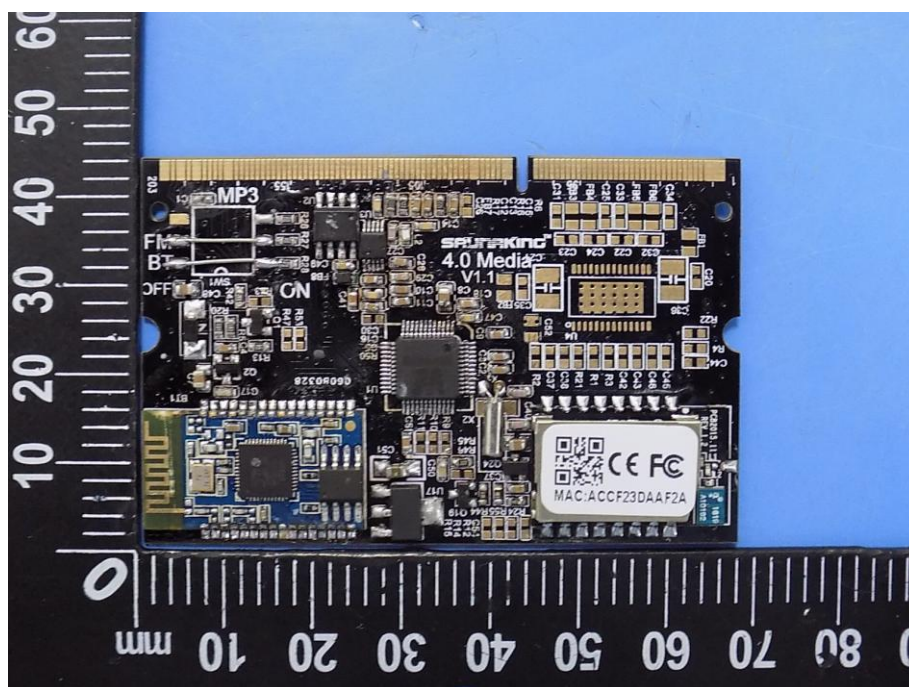
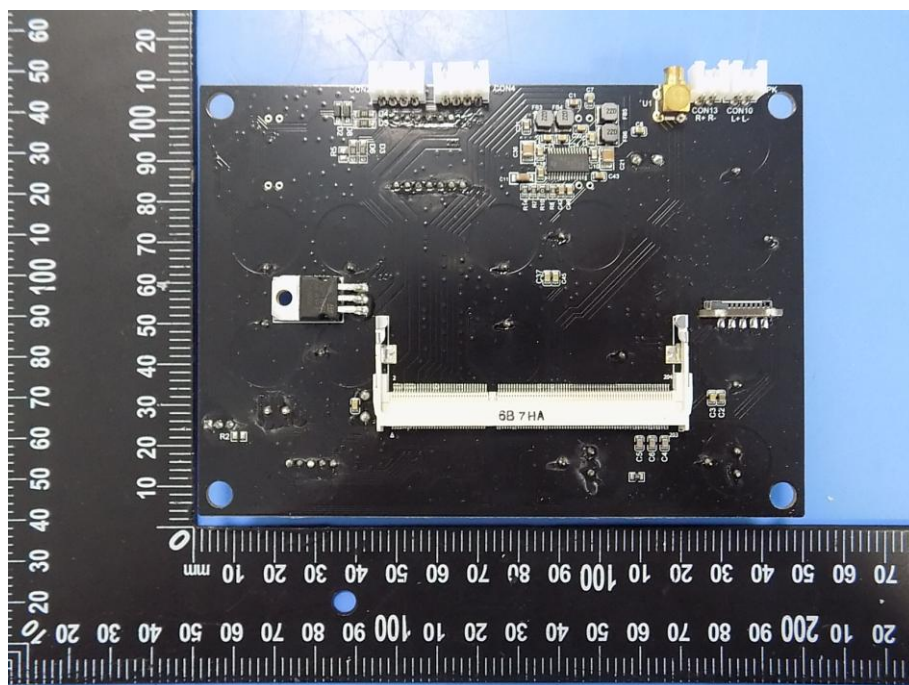


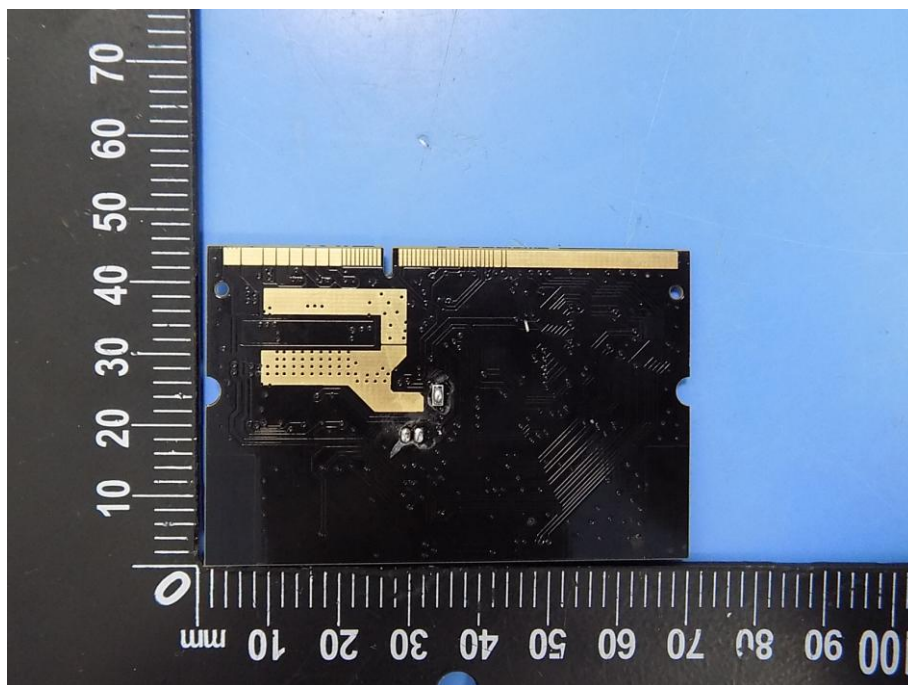
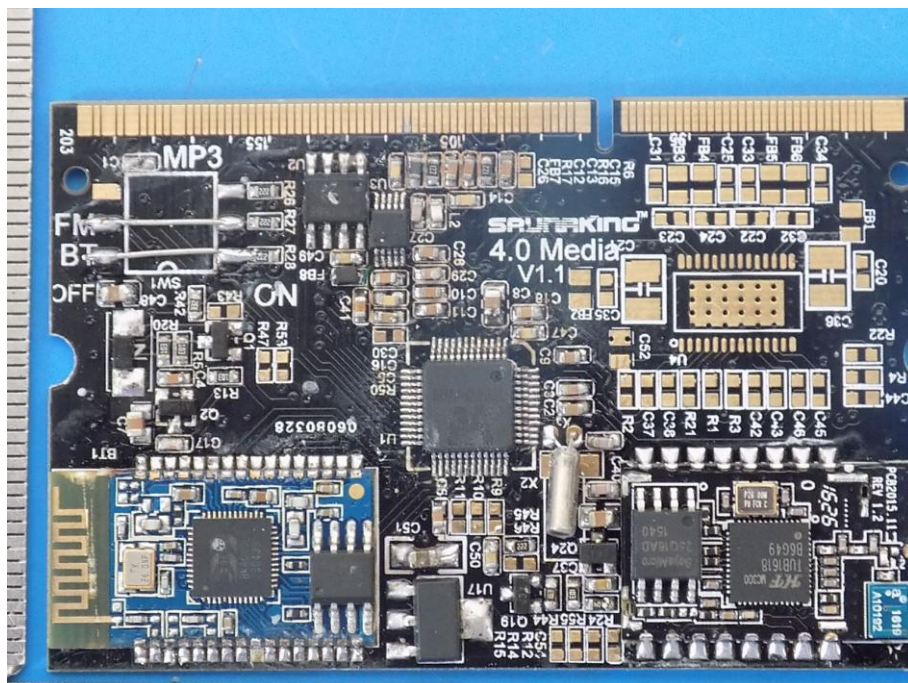












-----END OF THE REPORT-----