



TEST REPORT

FCC ID: 2AMTVRF-1031, IC:22810-1031

For
Hydration Labs, Inc.
TABLET PC

Model No. : RF-1031

Trade name : N/A

Prepared for : Hydration Labs, Inc.
Address : 28 Damrell Street, Suite B-04, Boston, MA 02127 USA

Prepared by : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building B, East Area of Nanchang Second, Industrial Zone,
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Date of Receipt : May 08, 2017

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TABLE OF CONTENT

Description

Page

1 General Information	5
1.1 Description of Device (EUT)	5
1.2 Description of Test Facility	6
2 EMC Equipment List	6
3 Test Procedure	7
4 Summary of Measurement	8
4.1 Summary of test result	8
4.2 Test connection	8
4.3 Assistant equipment used for test	9
4.4 Test mode	9
4.5 Channel list	9
4.6 Test Conditions	9
4.7 Measurement Uncertainty (95% confidence levels, k=2)	10
5 Spurious Emission	11
5.1 Radiation Emission	11
5.1.1 Radiation Emission Limits(15.209)	11
5.1.2 Test Setup	11
5.1.3 Test Procedure	13
5.1.4 Test Equipment Setting For emission test Result	14
5.1.5 Test Condition	14
5.1.6 Test Result	14
6 POWER LINE CONDUCTED EMISSION	26
6.1 Conducted Emission Limits(15.207)	26
6.2 Test Setup	26
6.3 Test Procedure	27
6.4 Test Results	27
7 Conducted Maximum Output Power	30
7.1 Test limit	30
7.2 Test Procedure	30
7.3 Test Setup	30
7.4 Test Results	30
8 PEAK POWER SPECTRAL DENSITY	32
8.1 Test limit	32
8.2 Method of measurement	32
8.3 Test Setup	32
8.4 Test Results	33
9 Bandwidth	40
9.1 Test limit	40
9.2 Method of measurement	40

9.3	Test Setup-----	40
9.4	Test Results-----	40
10	Band Edge Check-----	47
10.1	Test limit-----	47
10.2	Test Procedure -----	47
10.3	Test Setup-----	47
10.4	Test Result-----	47
11	Antenna Requirement -----	57
11.1	Standard Requirement -----	57
11.2	Antenna Connected Construction -----	57
11.3	Result-----	57
12	Test setup photo -----	58
12.1	Photos of Radiated emission -----	58
12.2	Photos of Conducted Emission test -----	59
13	Photographs of EUT -----	60

TEST REPORT VERIFICATION

Applicant : Hydration Labs, Inc.
Manufacturer : XIAMEN INNOLABS TECHNOLOGY CO., LTD.
EUT Description : TABLET PC

(A) Model No. : RF-1031
(B) Trademark : N/A
(C) Ratings Supply : DC 12V from DC Power
(D) Test Voltage : DC 12V from DC Power

Measurement Standard Used:

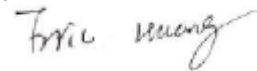
FCC Rules and Regulations Part 15 Subpart C 15.247 2017, RSS-247 ISSUE 2 FEB 2017
ANSI C63.4:2014, ANSI C63.10:2013

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).....: Eric Huang
Test Engineer

.....

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Approved by (name + signature).....: Simple Guan
Project Manager

.....

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Date of issue.....: May 31, 2017

1 General Information

1.1 Description of Device (EUT)

Trade Name	: N/A
EUT	: TABLET PC
Model No.	RF-1031 Model RF-1031 has two RF modules, AP6212 and AP6212A, both of which are only different in energy consumption. EUT with 2 modules all have been tested, only worse case is reported.
Antenna Type	: external Antenna with reversed polarity non standard antenna port, Max Gain 3dBi.
Operation Frequency	: IEEE 802.11b/g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz
Channel number	: IEEE 802.11b/g: 11 Channels 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 Power
Applicant	: Hydration Labs, Inc.
Address	: 28 Damrell Street, Suite B-04, Boston, MA 02127 USA
Manufacturer	: XIAMEN INNOLABS TECHNOLOGY CO., LTD
Address	: Unit 509, No.8 Gaodian Road, Xiamen Area of China (Fujian) Pilot Free Trade Zone

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, Shenzhen, China

August 11, 2014 File on Federal Communication Commission
Registration Number: 203110

July 18, 2014 Certificated by IC
Registration Number: 12135A

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.09.29	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2016.09.29	1Year
Receiver	R&S	ESCI	1166.5950K03-1011	2016.09.29	1Year
Receiver	R&S	ESCI	101202	2016.09.29	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2016.09.30	2Year
Horn Antenna	EMCO	3115	640201028-06	2016.09.30	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.09.30	2Year
Cable	Resenberger	N/A	No.1	2016.09.29	1Year
Cable	SCHWARZBECK	N/A	No.2	2016.09.29	1Year
Cable	SCHWARZBECK	N/A	No.3	2016.09.29	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2016.09.29	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	2016.09.29	1Year
Base station	Agilent	E5515C	GB44300243	2016.09.29	1 Year
Temperature controller	Terchy	MHQ	120	2016.09.29	1Year

Power divider	Anritsu	K240C	020346	2016.09.29	1 Year
Signal Generator	HP	83732B	VS3449051	2016.09.29	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.09.29	1Year
Power sensor	Anritsu	ML2491A	32516	2016.09.29	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.09.29	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2016.09.29	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.

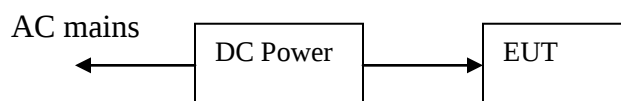
4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Standards Paragraph	Result
Spurious Emission	FCC PART 15 : 2016 & IC RSS-247	15.247&15.209 & RSS-GEN 8.9 8.10	Compliance
Conduction Emission	FCC PART 15 : 2019 & IC RSS Gen	Section15.207&RSS-GEN 8.8	Compliance
Bandwidth Test	FCC PART 15 : 2016 & IC RSS-247	Section 15.247&RSS-247 5.2(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 & RSS-247 5.2(b)	Compliance
Band Edge	FCC PART 15 : 2016 & IC RSS-247	Section 15.247 & RSS-247 5.5	Compliance
Antenna Requirement	FCC PART 15 : 2016 & IC RSS Gen	Section15.203 RSS-GEN 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	:	DC Power
Manufacturer	:	SIMSLKIAN
Model No.	:	SK03T1-1200250Z

4.4 Test mode

Dutycycle :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	2.42dB	
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)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
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 (microvolts/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

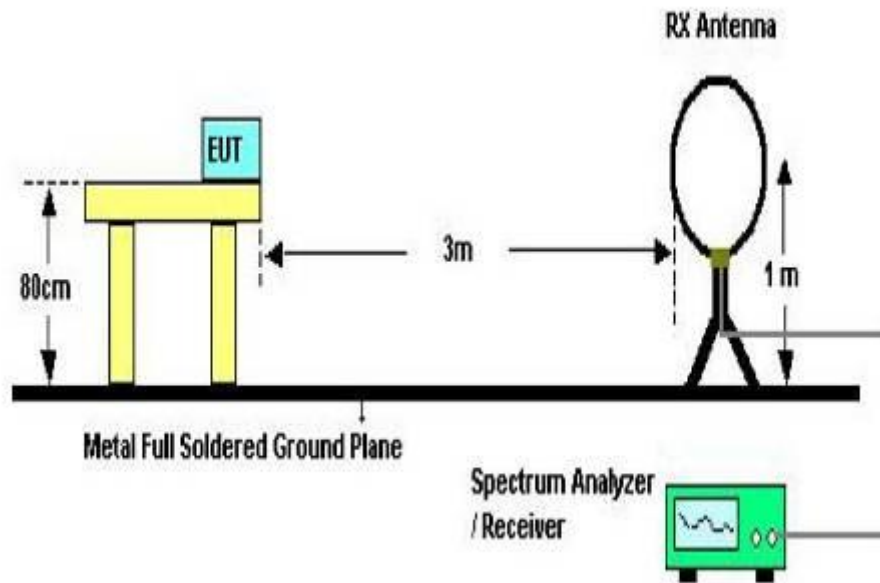
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit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

NOTE:

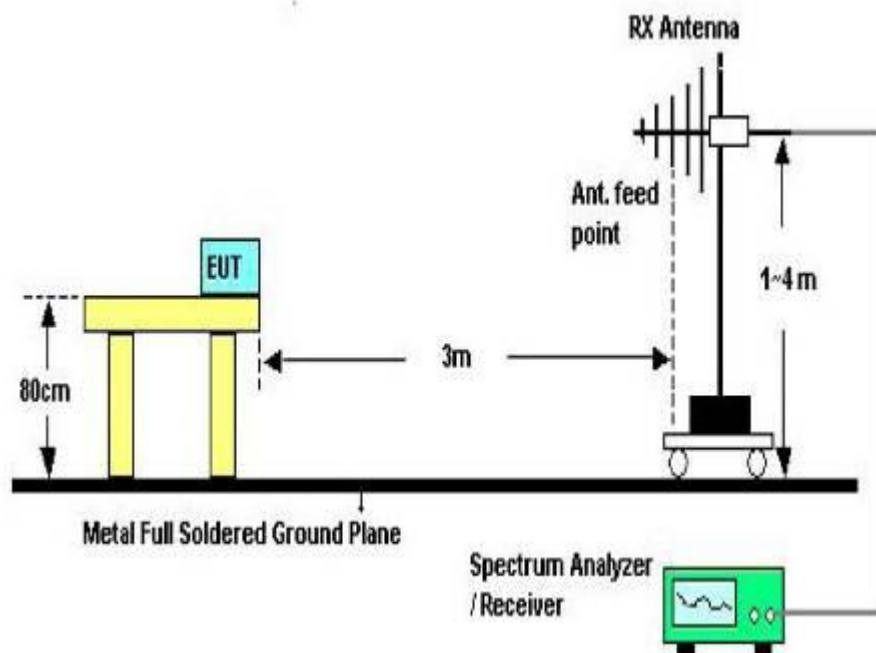
- The tighter limit applies at the band edges.
- Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.1.2 Test Setup

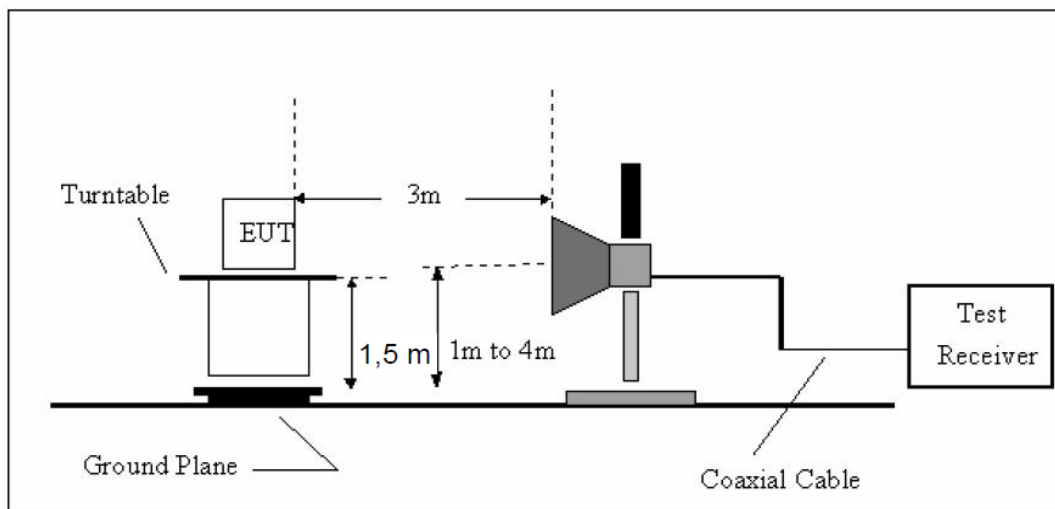
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.1.3 Test Procedure

- 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
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- 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
- 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.
- 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 966-2 Chamber

Polarization: **Horizontal**

Temperature: 23.8

Limit: FCC Part 15 Class B Radiation

Power:

Humidity: 56 %

EUT: TABLET PC

Distance:

M/N: RF-1031

Mode:

Note:

Engineer Signature:

Radiated Emission Measurement

File :2017

Data :#6

Date: 2017/5/15

Time: 15:59:56



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		76.5121	18.92	10.01	28.93	40.00	-11.07	peak		
2		163.7548	17.21	14.28	31.49	43.50	-12.01	peak		
3		210.0482	23.81	10.69	34.50	43.50	-9.00	peak		
4	*	278.0668	26.94	12.94	39.88	46.00	-6.12	peak		
5		396.2414	21.61	15.42	37.03	46.00	-8.97	peak		
6		975.7527	14.38	23.65	38.03	54.00	-15.97	peak		

Site: LAB 966-2 Chamber Polarization: **Vertical** Temperature: 23.8
 Limit: FCC Part 15 Class B Radiation Power: Humidity: 56 %
 EUT: TABLET PC Distance:
 M/N: RF-1031
 Mode:
 Note:

Engineer Signature:

Radiated Emission Measurement

File :2017

Data :#7

Date: 2017/5/15

Time: 16:02:30



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1	*	33.4448	20.91	13.44	34.35	40.00	-5.65	peak		
2		53.3179	20.27	13.44	33.71	40.00	-6.29	peak		
3		94.0978	21.46	10.05	31.51	43.50	-11.99	peak		
4		136.4598	19.36	13.61	32.97	43.50	-10.53	peak		
5		222.9501	19.27	11.45	30.72	46.00	-15.28	peak		
6		625.0779	17.93	19.74	37.67	46.00	-8.33	peak		

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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	45.21	---	-11.24	33.97	---	74	54	40.03	Peak
4824	V	39.14	---	0.64	39.78	---	74	54	34.22	Peak
N/A										

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.47	---	-11.24	33.23	---	74	54	40.77	Peak
4824	H	38.07	---	0.64	38.71	---	74	54	35.29	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	43.97	---	-11.24	32.73	---	74	54	41.27	Peak
4874	V	38.71	---	0.76	39.47	---	74	54	34.53	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	45.44	---	-11.24	34.20	---	74	54	39.80	Peak
4874	H	38.48	---	0.76	39.24	---	74	54	34.76	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	43.22	---	-11.24	31.98	---	74	54	42.02	Peak
4924	V	37.41	---	0.87	38.28	---	74	54	35.72	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.01	---	-11.24	32.77	---	74	54	41.23	Peak
4924	H	36.20	---	0.87	37.07	---	74	54	36.93	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.61	---	-11.24	33.37	---	74	54	40.63	Peak
2573	V	45.95	---	-7.13	38.82	---	74	54	35.18	Peak
3128	V	45.68	---	-5.74	39.94	---	74	54	34.06	Peak
4824	V	41.85	---	0.64	42.49	---	74	54	31.51	Peak
N/A										

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	43.95	---	-10.96	32.99	---	74	54	41.01	Peak
2059	H	44.44	---	-8.58	35.86	---	74	54	38.14	Peak
3391	H	43.10	---	-4.95	38.15	---	74	54	35.85	Peak
4824	H	40.81	---	0.64	41.45	---	74	54	32.55	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.26	---	-10.43	33.83	---	74	54	40.17	Peak
2564	V	44.51	---	-7.13	37.38	---	74	54	36.62	Peak
3342	V	44.12	---	-5.18	38.94	---	74	54	35.06	Peak
4874	V	41.96	---	0.76	42.72	---	74	54	31.28	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	43.33	---	-10.84	32.49	---	74	54	41.51	Peak
2362	H	45.27	---	-7.46	37.81	---	74	54	36.19	Peak
3551	H	43.60	---	-4.76	38.84	---	74	54	35.16	Peak
4874	H	40.93	---	0.76	41.69	---	74	54	32.31	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.69	---	-10.84	33.85	---	74	54	40.15	Peak
2902	V	44.43	---	-5.86	38.57	---	74	54	35.43	Peak
3846	V	44.02	---	-3.96	40.06	---	74	54	33.94	Peak
4924	V	40.77	---	0.87	41.64	---	74	54	32.36	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.54	---	-10.29	34.25	---	74	54	39.75	Peak
2143	H	45.22	---	-8.24	36.98	---	74	54	37.02	Peak
3712	H	44.04	---	-3.68	40.36	---	74	54	33.64	Peak
4924	H	41.46	---	0.87	42.33	---	74	54	31.67	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.75	---	-10.27	34.48	---	74	54	39.52	Peak
2651	V	44.75	---	-6.94	37.81	---	74	54	36.19	Peak
3916	V	44.27	---	-3.68	40.59	---	74	54	33.41	Peak
4824	V	40.13	---	0.64	40.77	---	74	54	33.23	Peak
N/A										

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.29	---	-10.27	34.02	---	74	54	39.98	Peak
2864	H	44.55	---	-6.17	38.38	---	74	54	35.62	Peak
3659	H	42.23	---	-4.52	37.71	---	74	54	36.29	Peak
4824	H	40.95	---	0.64	41.59	---	74	54	32.41	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	43.88	---	-10.96	32.92	---	74	54	41.08	Peak
2154	V	44.23	---	-8.58	35.65	---	74	54	38.35	Peak
3407	V	42.82	---	-4.07	38.75	---	74	54	35.25	Peak
4874	V	39.79	---	0.76	40.55	---	74	54	33.45	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.43	---	-10.14	34.29	---	74	54	39.71	Peak
2454	H	44.84	---	-7.59	37.25	---	74	54	36.75	Peak
3202	H	43.18	---	-5.39	37.79	---	74	54	36.21	Peak
4874	H	40.62	---	0.76	41.38	---	74	54	32.62	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	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	44.41	---	-10.27	34.14	---	74	54	39.86	Peak
2036	V	44.10	---	-6.43	37.67	---	74	54	36.33	Peak
3651	V	44.60	---	-4.76	39.84	---	74	54	34.16	Peak
4924	V	40.67	---	0.87	41.54	---	74	54	32.46	Peak

EUT	TABLET PC	Model Name	RF-1031
Temperature	26°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 12V From DC Power
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	42.58	---	-10.14	32.44	---	74	54	41.56	Peak
3483	H	43.94	---	-4.96	38.98	---	74	54	35.02	Peak
4117	H	42.75	---	-2.48	40.27	---	74	54	33.73	Peak
4924	H	40.13	---	0.87	41.00	---	74	54	33.00	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)

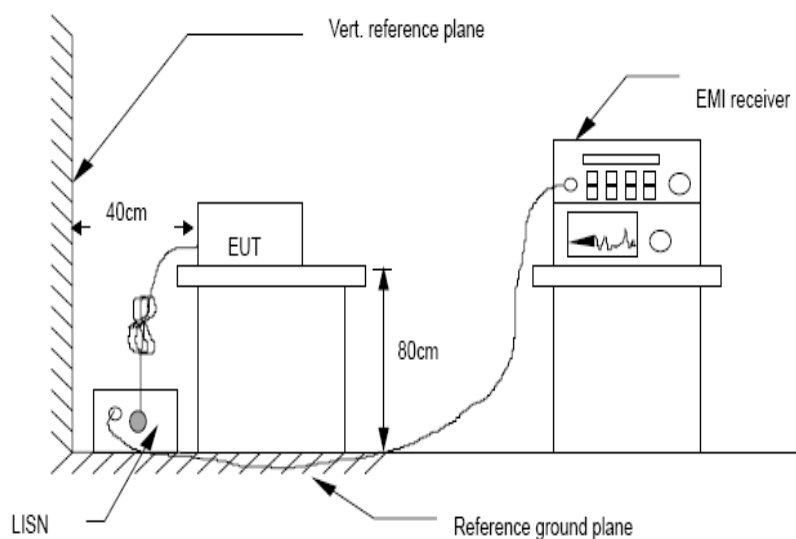
Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

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 range 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

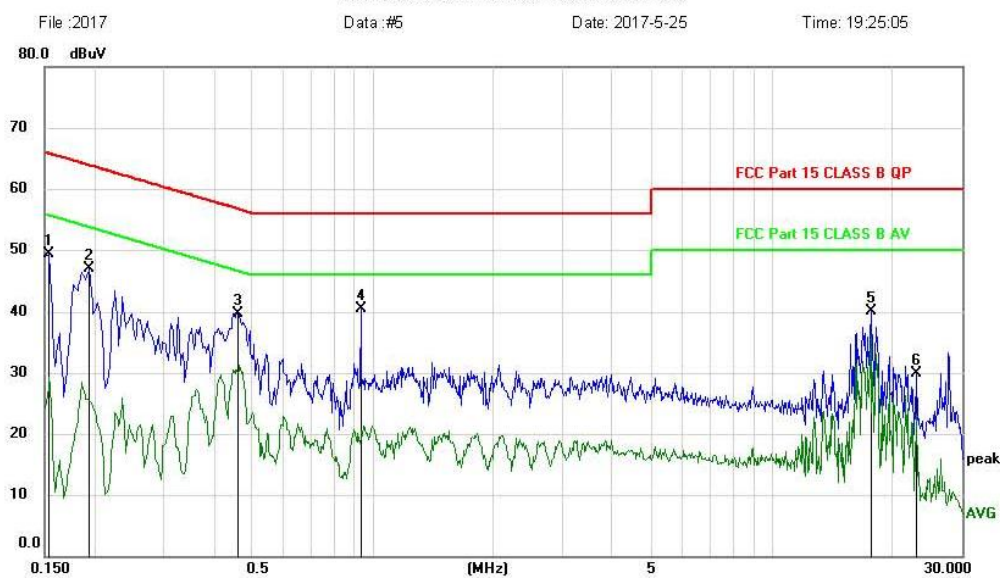
Worse case is reported only

PASS

Detailed information please see the following page.

Site: LAB	Phase: N	Temperature: 24.2
Limit: FCC Part 15 CLASS B QP	Power:	Humidity: 53 %
EUT:		
M/N: RF-1031		
Mode:		
Note:		

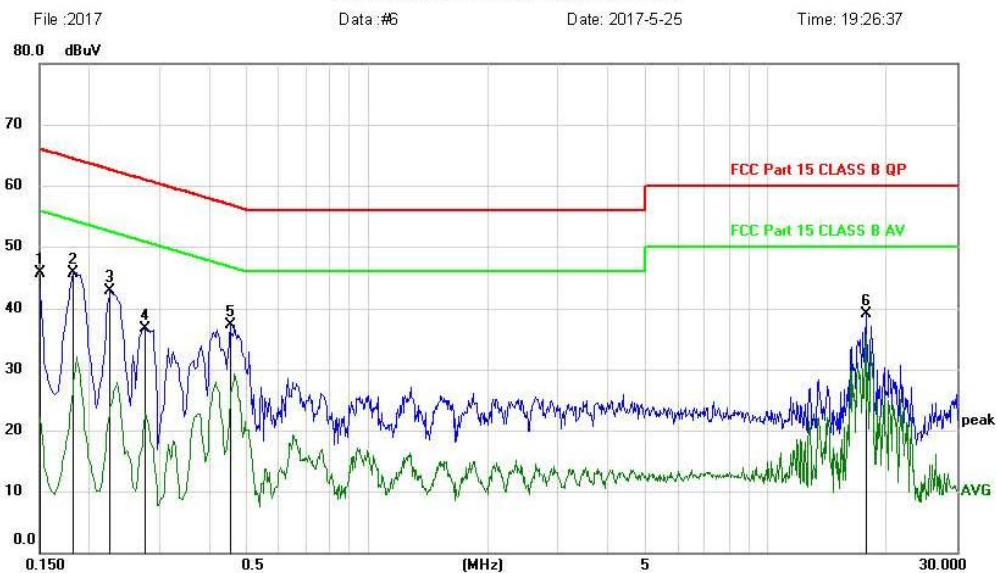
Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	39.64	9.63	49.27	65.75	-16.48	peak	
2		0.1949	37.34	9.64	46.98	63.83	-16.85	peak	
3		0.4605	30.06	9.68	39.74	56.68	-16.94	peak	
4	*	0.9285	30.87	9.73	40.60	56.00	-15.40	peak	
5		17.6955	29.88	10.15	40.03	60.00	-19.97	peak	
6		23.1315	19.65	10.24	29.89	60.00	-30.11	peak	

Site: LAB	Phase: L1	Temperature: 24.2
Limit: FCC Part 15 CLASS B QP	Power:	Humidity: 53 %
EUT:		
M/N: RF-1031		
Mode:		
Note:		

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	36.14	9.63	45.77	66.00	-20.23	peak	
2	*	0.1815	36.11	9.64	45.75	64.42	-18.67	peak	
3		0.2265	33.17	9.65	42.82	62.58	-19.76	peak	
4		0.2760	27.08	9.66	36.74	60.94	-24.20	peak	
5		0.4515	27.67	9.68	37.35	56.85	-19.50	peak	
6		17.6955	29.02	10.15	39.17	60.00	-20.83	peak	

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 & RSS-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.

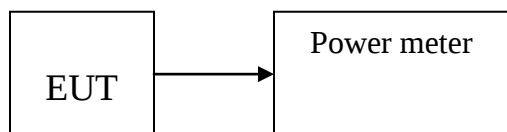
7.2.2 Connected the EUT's antenna port to peak power meter by 20dB attenuator.

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: TABLET PC M/N: RF-1031					
Test date: 2017-05-25		Test site: RF site		Tested by: Simple Guan	
Mode	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Margin (dB)	
IEEE 802.11 b	CH1: 2412	9.36	30	19.44	
	CH6: 2437	9.34	30	19.66	
	CH11: 2462	9.47	30	19.33	
IEEE 802.11 g	CH1: 2412	8.61	30	20.39	
	CH6: 2437	8.85	30	20.15	
	CH11: 2462	8.12	30	20.88	
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	7.90	30	21.10	
	CH6: 2437	7.56	30	21.44	
	CH11: 2462	7.43	30	21.58	
Conclusion: PASS					

8 PEAK POWER SPECTRAL DENSITY

8.1 Test limit

8.1.1 Please refer section 15.247 & RSS-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 8 dBm in any 3 kHz 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.

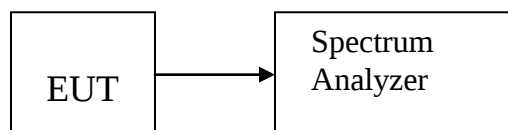
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3 kHz, VBW = 10 kHz, 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 following page.

EUT: TABLET PC M/N: RF-1031				
Test date: 2017-05-25		Test site: RF site	Tested by: Simple Guan	
Mode	Frequency (MHz)	PK Output power(dBm)	Limit (dBm)	Result
IEEE 802.11 b	CH1: 2412	-8.392	8	PASS
	CH6: 2437	-7.357	8	PASS
	CH11: 2462	-6.657	8	PASS
IEEE 802.11 g	CH1: 2412	-11.524	8	PASS
	CH6: 2437	-11.243	8	PASS
	CH11: 2462	-12.097	8	PASS
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	-12.709	8	PASS
	CH6: 2437	-12.755	8	PASS
	CH11: 2462	-12.748	8	PASS
Conclusion: PASS				

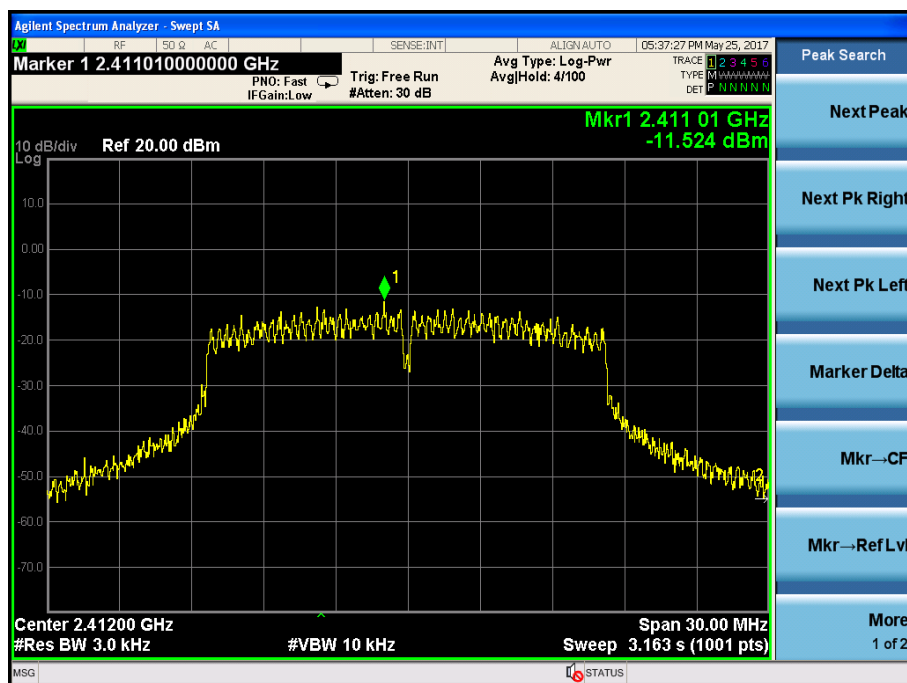
IEEE 802.11b :
CH Low :



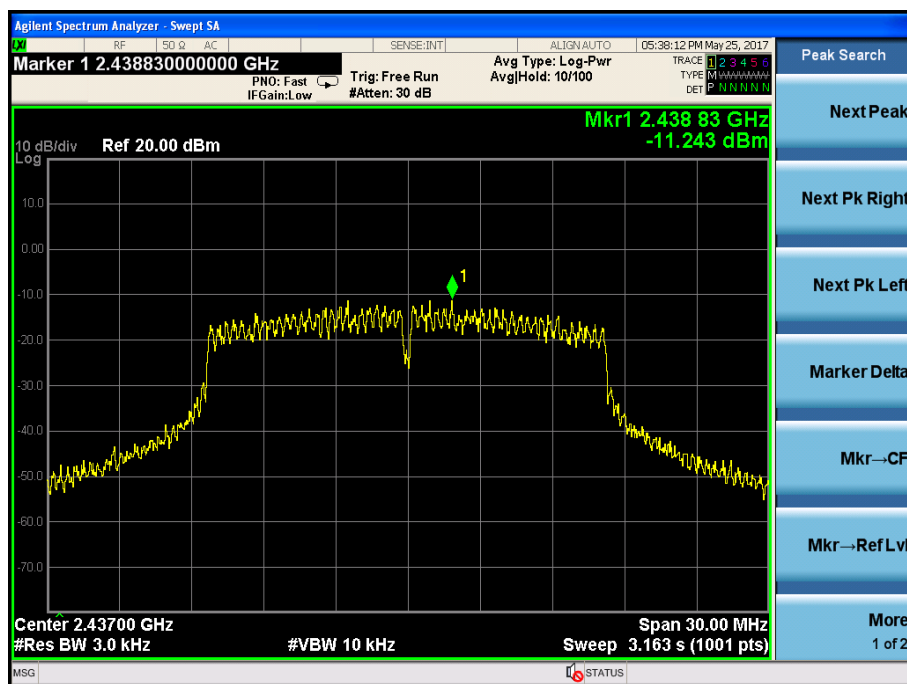
CH Mid:



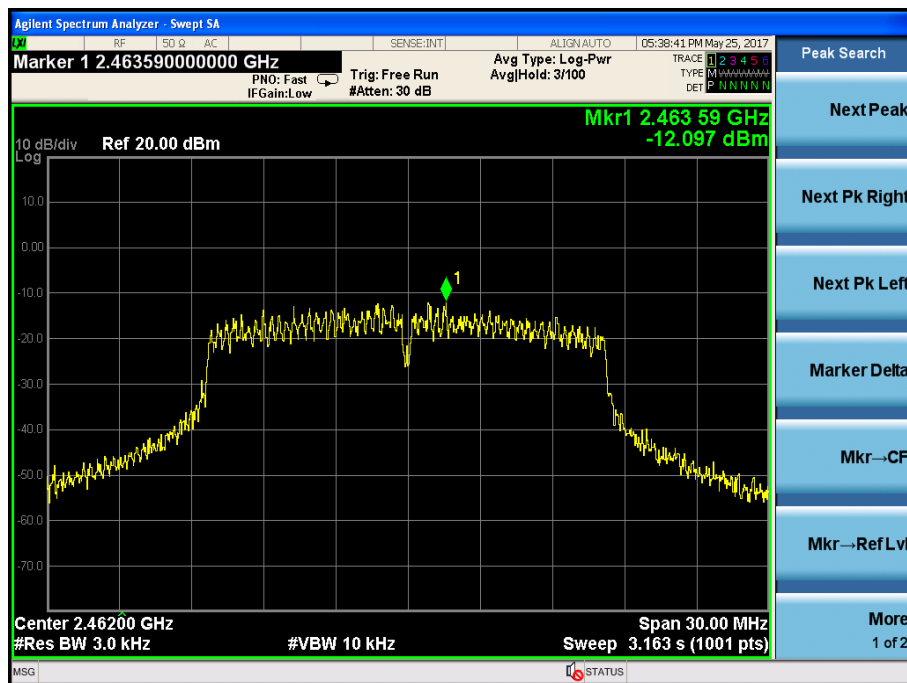
CH Hig:

IEEE 802.11g :
CH Low

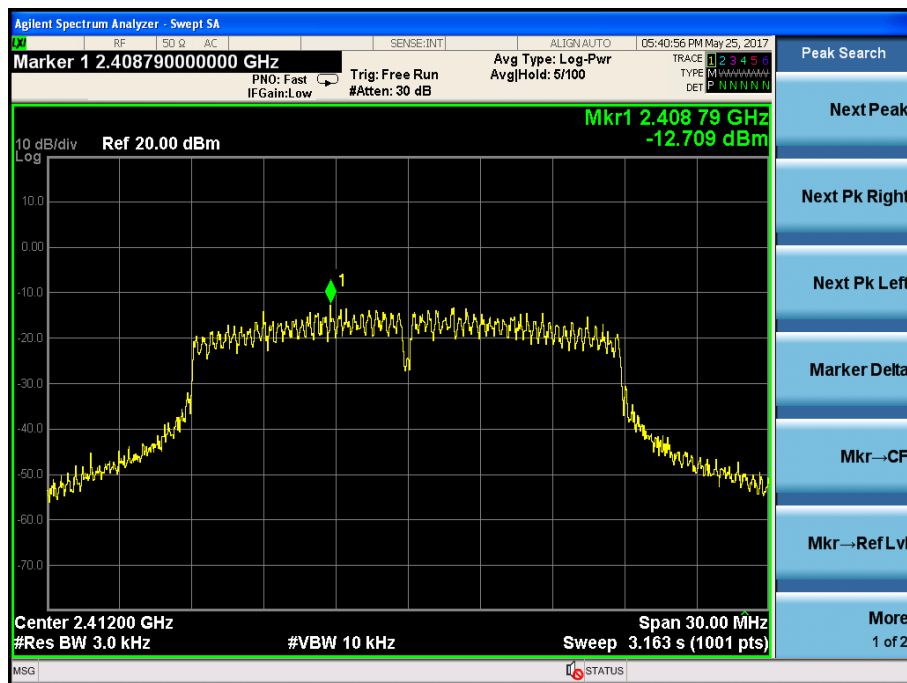
CH Mid:



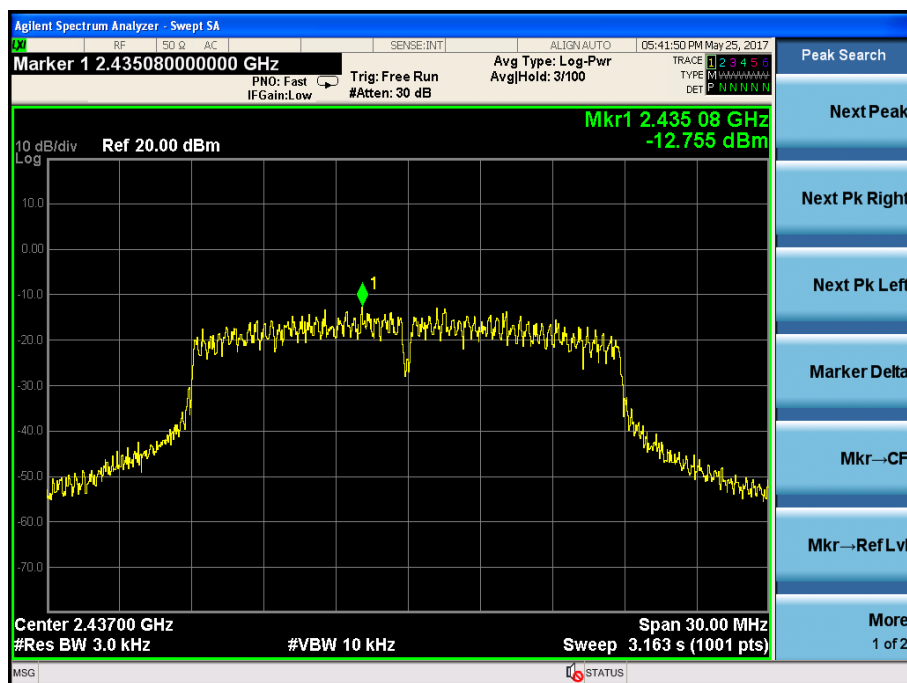
CH Hig:



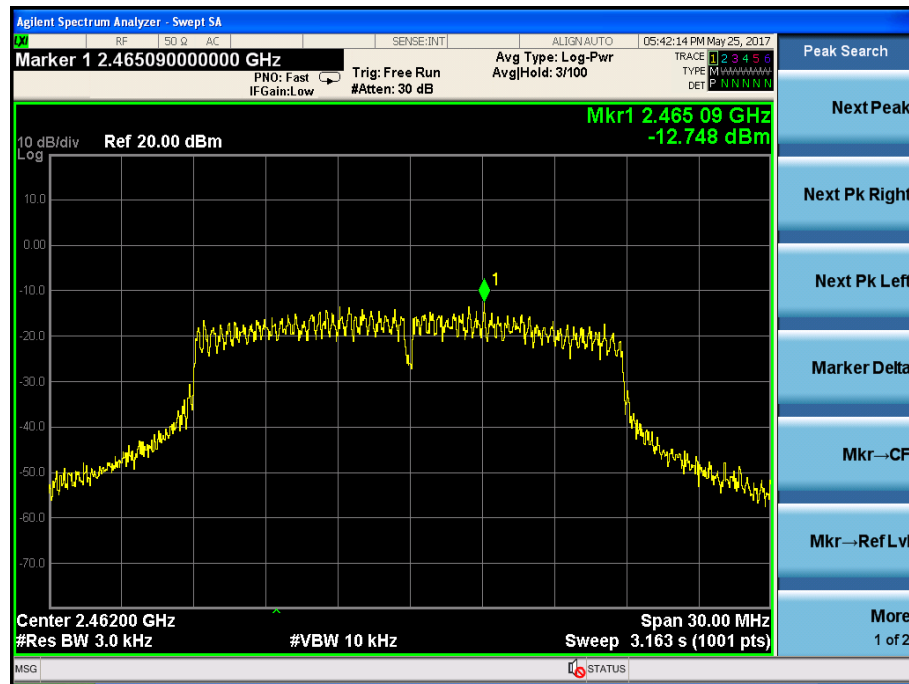
IEEE 802.11n HT20 :
CH Low :



CH Mid:



CH Hig:



9 Bandwidth

9.1 Test limit

Please refer section 15.247 & RSS-247

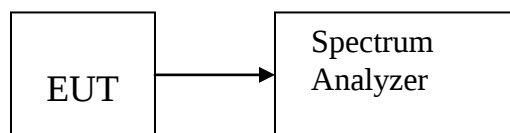
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

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



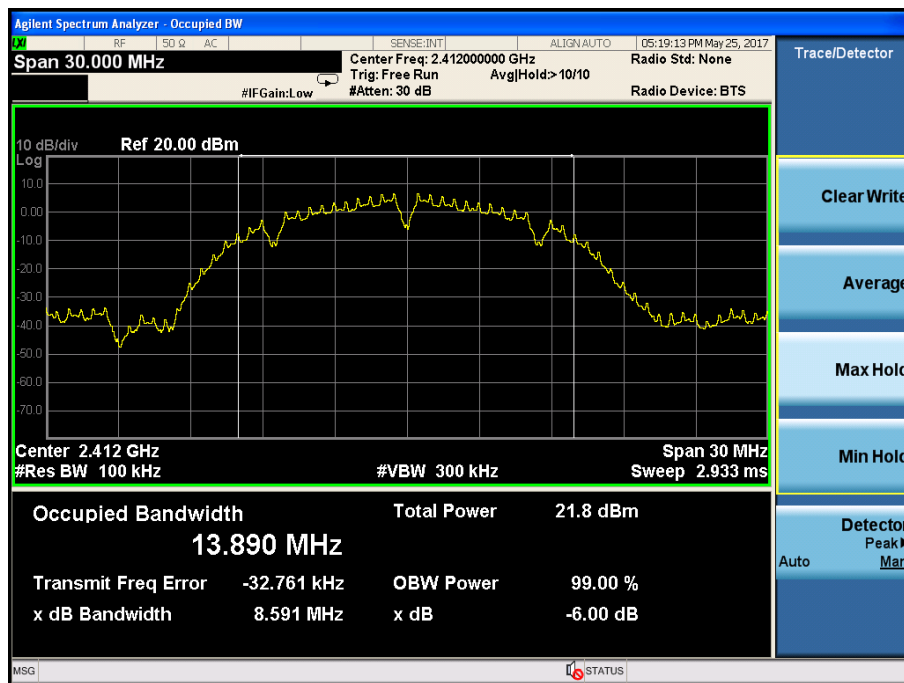
9.4 Test Results

PASS.

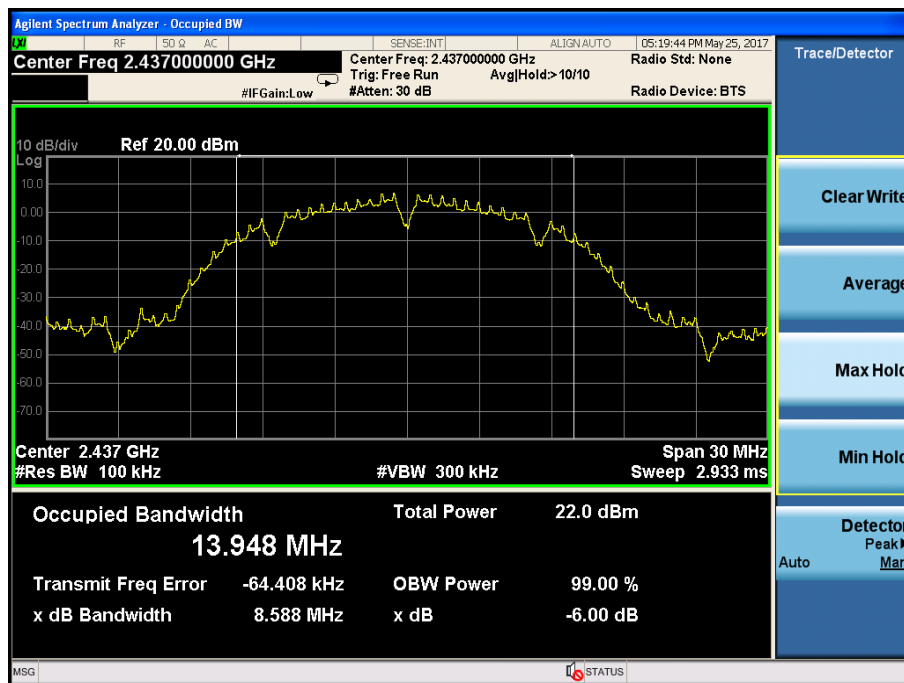
Detailed information please see the following page.

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b:					
Low	2412	8.591	13.890	0.5	PASS
Mid	2437	8.588	13.948	0.5	PASS
High	2462	8.593	13.950	0.5	PASS
IEEE 802.11g					
Low	2412	15.14	16.305	0.5	PASS
Mid	2437	15.11	16.297	0.5	PASS
High	2462	14.48	16.288	0.5	PASS
IEEE 802.11n/HT20:					
Low	2412	15.14	17.453	0.5	PASS
Mid	2437	15.09	17.452	0.5	PASS
High	2462	15.12	17.432	0.5	PASS

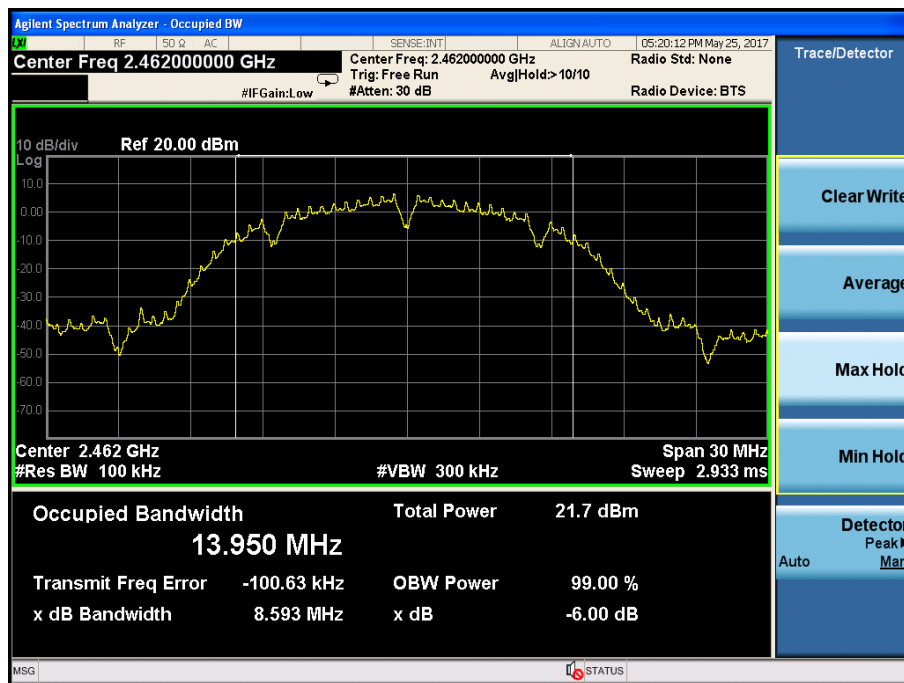
IEEE 802.11b:
CH Low :



CH Mid :

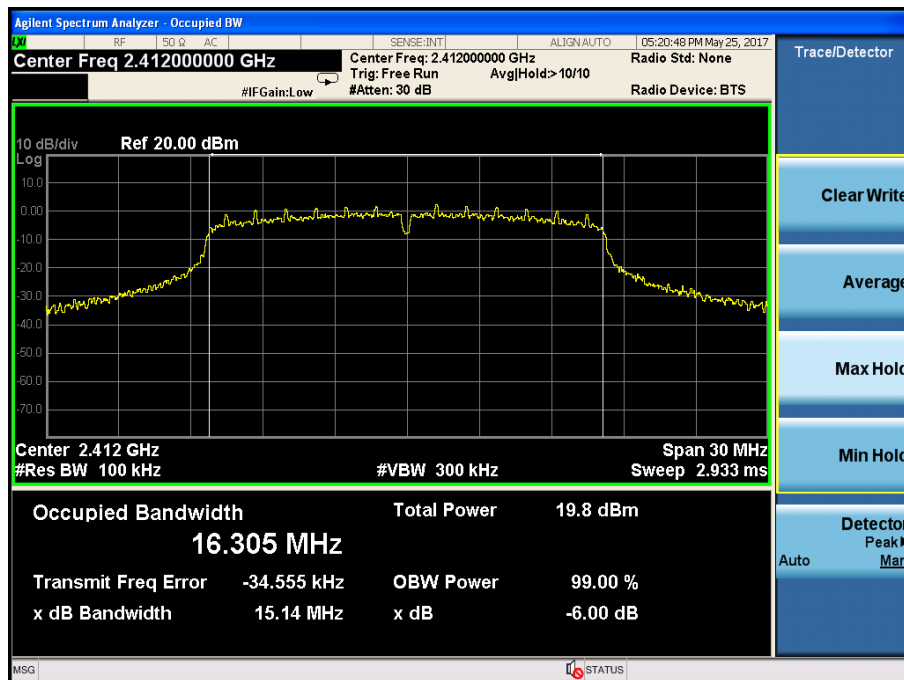


CH High :

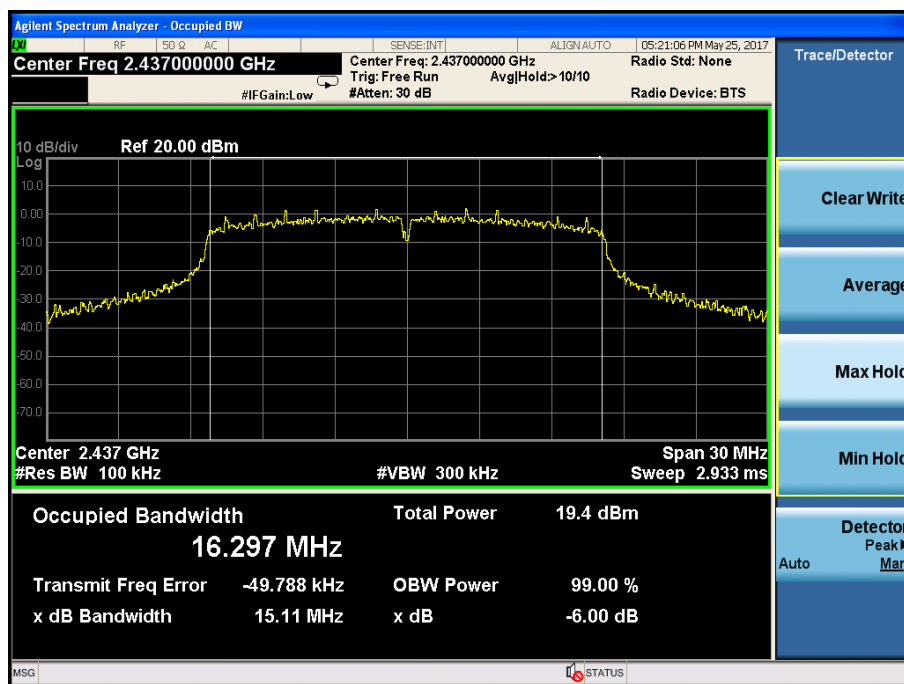


IEEE 802.11g:

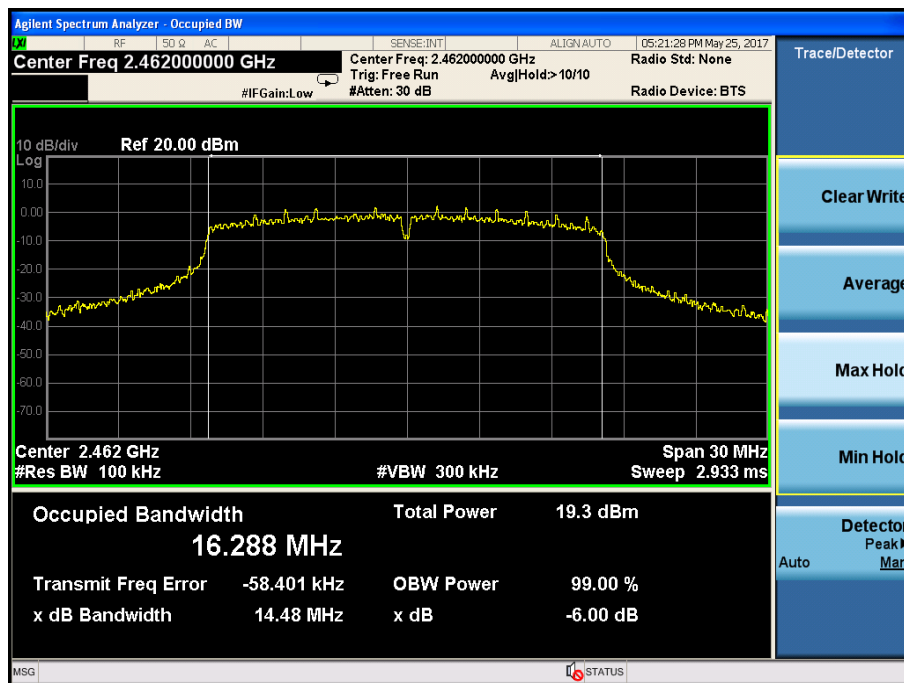
CH Low :



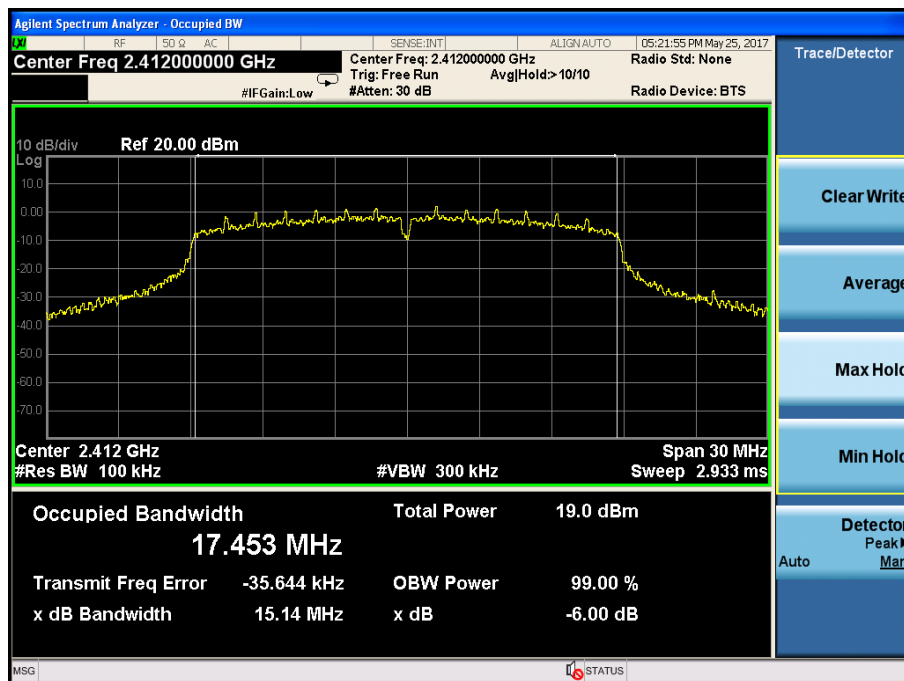
CH Mid:



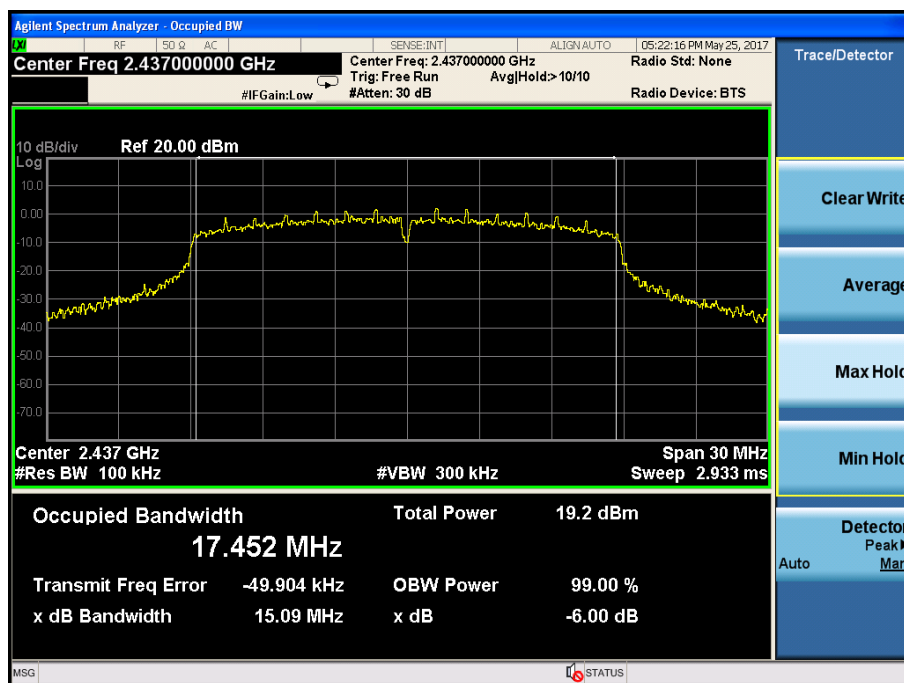
CH Hig:



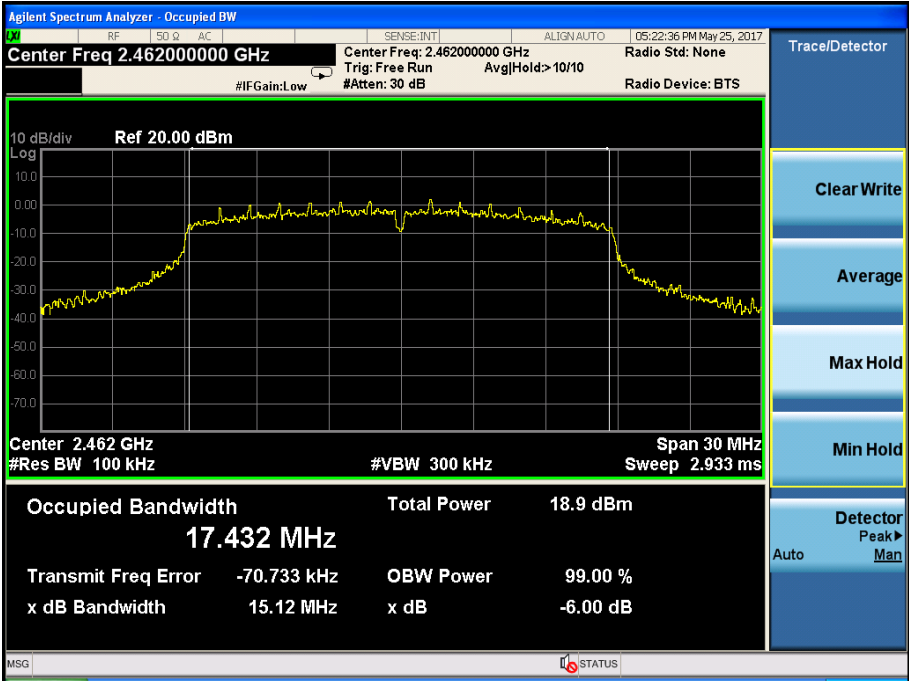
IEEE 802.11n HT20:
CH Low :



CH Mid :



CH High :



10 Band Edge Check

10.1 Test limit

Please refer section 15.247 & RSS-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: TABLET PC			M/N: RF-1031					
Power: DC 12V From DC Power								
Test date: 2017-05-25			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	41.09	27.62	3.92	34.97	37.66	74	36.34	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	41.45	27.62	3.92	34.97	38.02	74	35.98	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: TABLET PC			M/N: RF-1031											
Power: DC 12V From DC Power														
Test date: 2017-05-25			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	40.61	27.62	3.92	34.97	37.18	74	36.82	PK						
2390	--	27.62	3.92	34.97	--	54	--	AV						
Antenna Polarity: Horizontal														
2390	42.35	27.62	3.92	34.97	38.92	74	35.08	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.

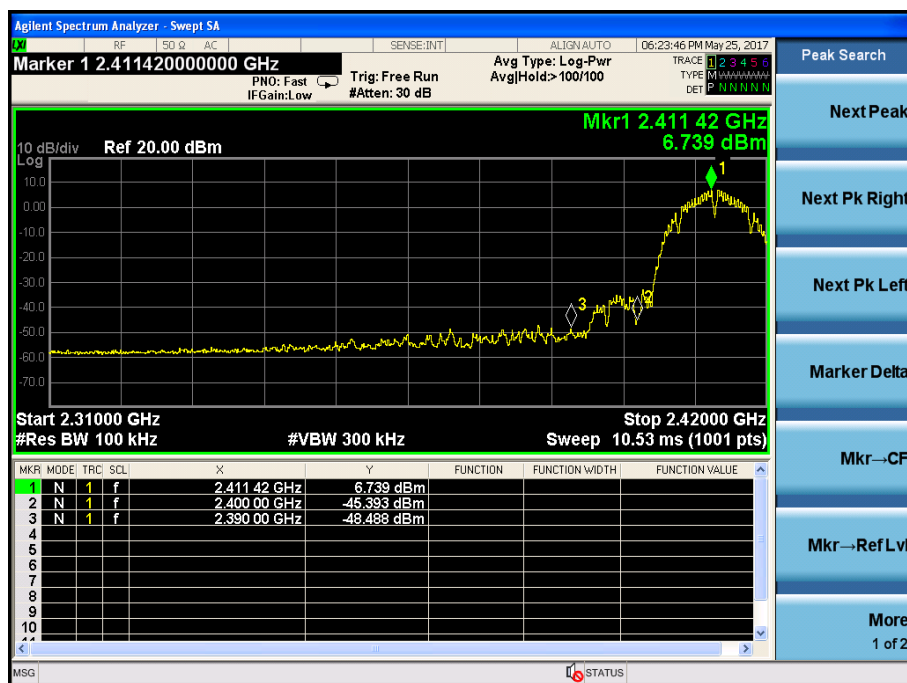
Band Edge Test result														
EUT: TABLET PC			M/N: RF-1031											
Power: DC 12V From DC Power														
Test date: 2017-05-25			Test site: 3m Chamber			Tested by: Eric								
Test mode: TX High														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
2483.5	44.26	27.89	4	34.97	41.18	74	32.82	PK						
2483.5		--	--	--	--	54	--	AV						
Antenna Polarity: Horizontal														
2483.5	47.65	27.89	4	34.97	44.57	74	29.43	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.

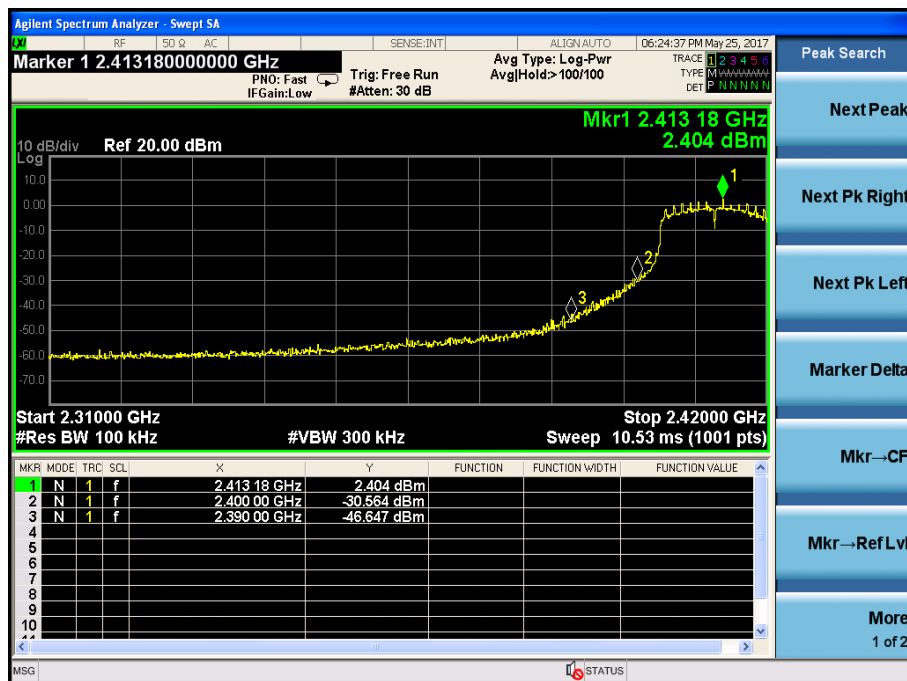
Band Edge Test result								
EUT: TABLET PC			M/N: RF-1031					
Power: DC 12V From DC Power								
Test date: 2017-05-25			Test site: 3m Chamber			Tested by: Eric		
Test mode: TX Low								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	41.96	27.62	3.92	34.97	38.53	74	35.47	PK
Antenna Polarity: Horizontal								
2390	34.32	27.89	3.92	34.97	31.24	74	42.76	PK
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: TABLET PC			M/N: RF-1031					
Power: DC 12V From DC Power								
Test date: 2017-05-25			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	46.01	27.89	4	34.97	42.93	74	31.07	PK
2483.5		--	--	--	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	42.25	27.62	3.92	34.97	38.82	74	35.18	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.								

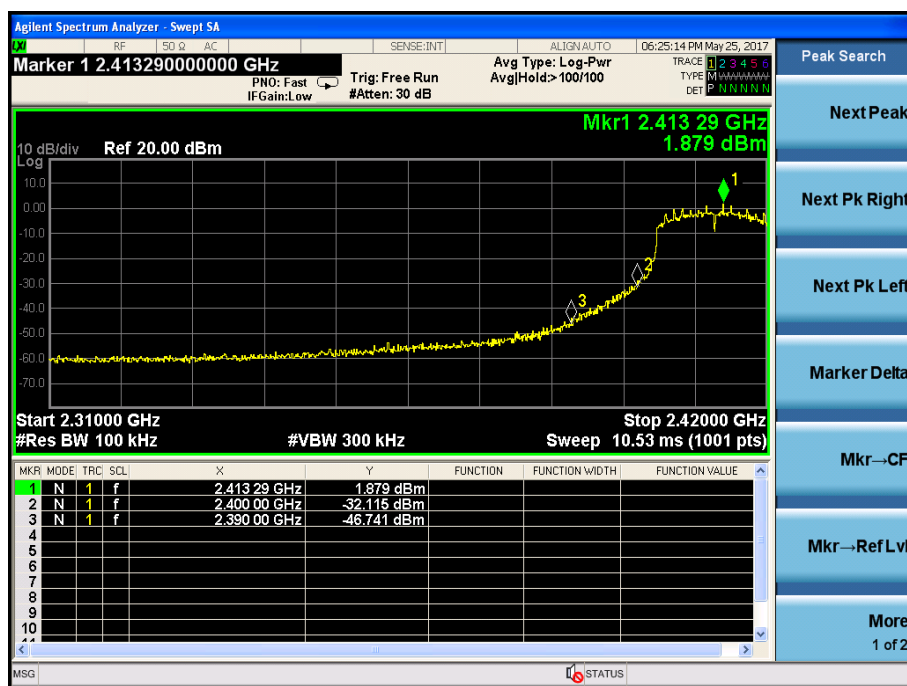
802.11b



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

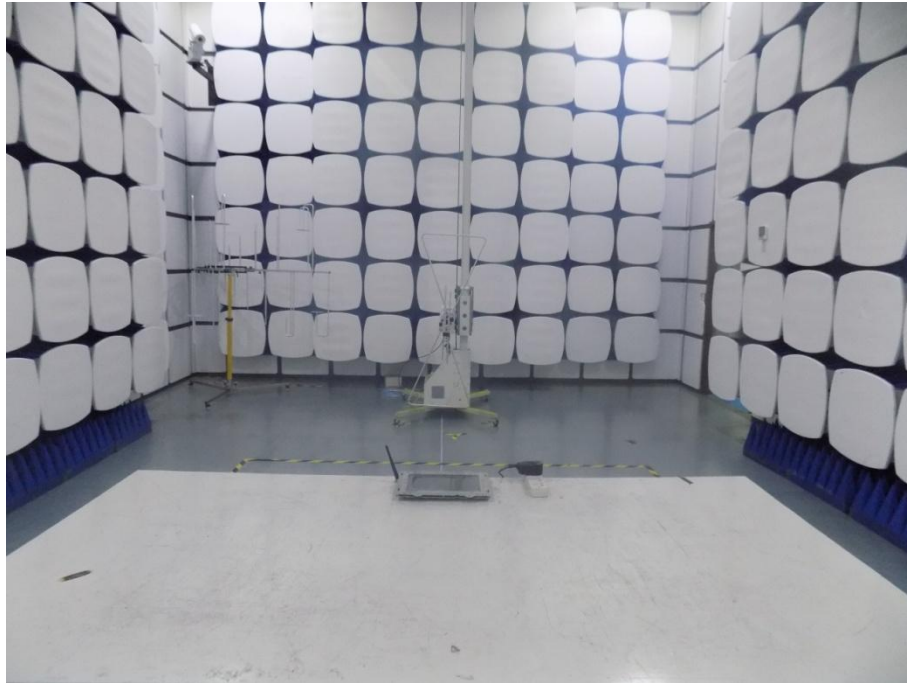
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

11.3 Result

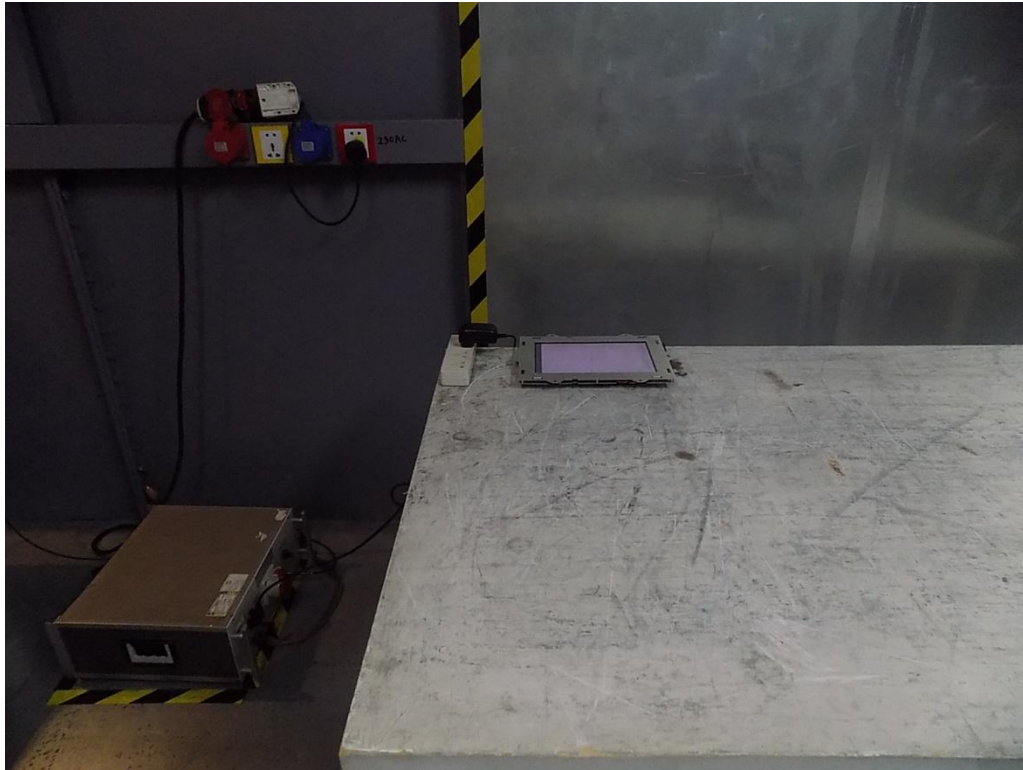
The EUT antenna is unique Antenna. It comply with the standard requirement.

12 Test setup photo

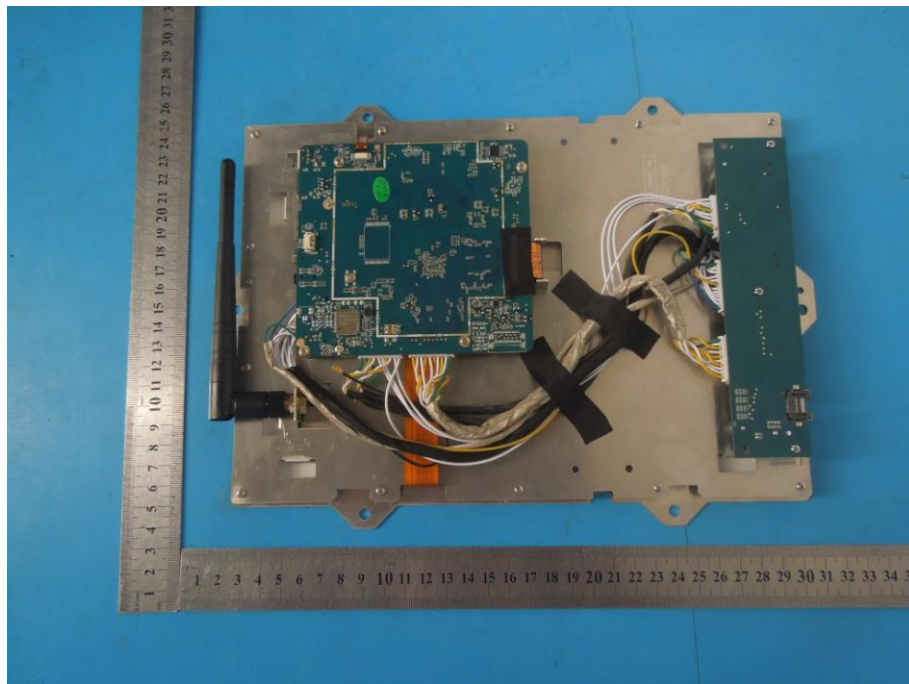
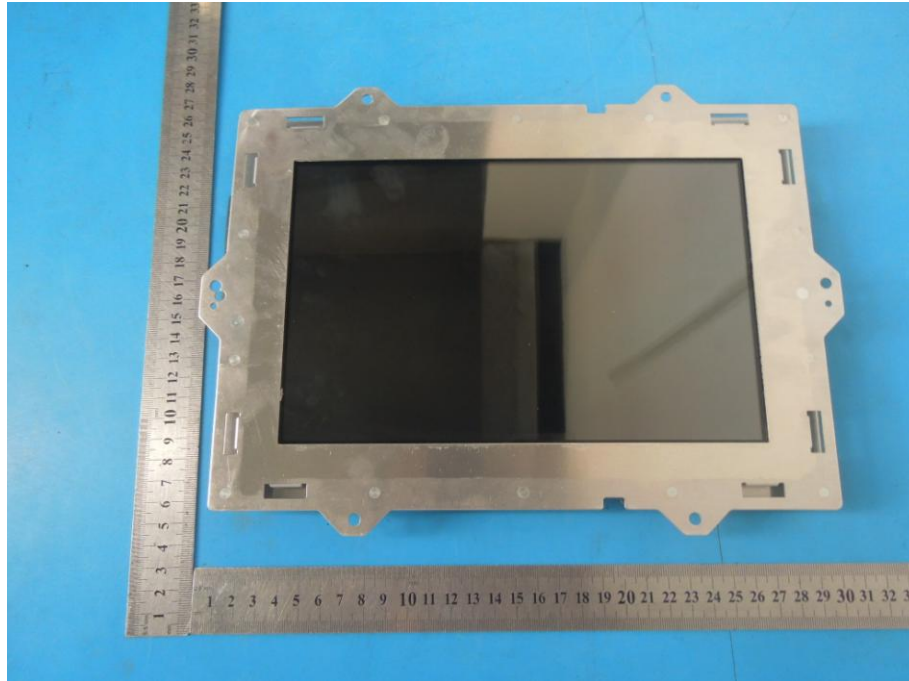
12.1 Photos of Radiated emission



12.2 Photos of Conducted Emission test



13 Photographs of EUT



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