

IC REPORT (WIFI)

Applicant: 8devices

Address of Applicant: Gedimino 47, Kaunas, LT-44242, Lithuania

Equipment Under Test (EUT)

Product Name: Broadband Digital Transmission System

Model No.: BLUE bean A, BLUE bean C, RED bean A, RED bean C

IC ID: 11468A-MB

Applicable standards: RSS-Gen Issue 5, April 2018
RSS-247 Issue 2, February 2017

Date of sample receipt: 28. Mar., 2019

Date of Test: 29. Mar., to 26 May, 2019

Date of report issued: 17 Jun., 2019

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	27 May, 2019	Original
01	17 Jun., 2019	Update page 6, 7, 15~19, 100~114

Tested by:

Mike.Ou

Date:

17 Jun., 2019

Test Engineer

Reviewed by:

Wimer Zhang

Date:

17 Jun., 2019

Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	Result
AC Power Line Conducted Emission	RSS-GEN Section 8.8	Pass
Conducted Peak Output Power	RSS-247 Section 5.4 (d)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	RSS-247 Section 5.2 (a) RSS-Gen Issue 5 Section 6.7	Pass
Power Spectral Density	RSS-247 Section 5.2 (b)	Pass
Band Edge	RSS-GEN Section 8.10 RSS-247 Section 5.5	Pass
Conducted and Radiated Spurious Emission	RSS-GEN Section 6.13 RSS-247 Section 5.5	Pass
Pass: The EUT complies with the essential requirements in the standard.		

5 General Information

5.1 Client Information

Applicant:	8devices
Address:	Gedimino 47, Kaunas, LT-44242, Lithuania
Manufacturer/ Factory:	8devices
Address:	Gedimino 47, Kaunas, LT-44242, Lithuania

5.2 General Description of E.U.T.

Product Name:	Broadband Digital Transmission System
Model No.:	BLUE bean A, BLUE bean C, RED bean A, RED bean C
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150 Mbps
Antenna Type:	Ceramic Antenna External antenna
Antenna gain:	Ceramic Antenna: 3.0 dBi External antenna A: 4.0 dBi External antenna B: 3.2 dBi
Remarks:	<p>The No.: BLUE bean A and BLUE bean C, RED bean A and RED bean C identical inside, the electrical circuit design, layout, components used and internal wiring up to RF output. with only difference as follow:</p> <ol style="list-style-type: none"> 1. BLUE bean C and RED bean C RF output is connected to connector Murata HSC, BLUE bean A and RED bean A RF output is connected to connector Murata HSC and connected to antenna, to accommodate antenna PCB length is increased, antenna, antennas passive components and RF probe switch added to PCB. 2. Modules use different version of chip BLUE bean Qualcomm QCA9377-7 and RED bean Qualcomm QCA9377-3. 3. QCA9377-7 and QCA9377-3 only differs what interface it uses to connect to WIFI and BT. 4. BLUE bean QCA9377-7 uses USB2.0 for WIFI and USB1.1 for BT. 5. RED bean QCA9377-3 uses SDIO3.0 for WIFI and UART/PCM for BT. 6. Circuit design, layout components used and internal wiring for interface connection is different. 7. Pinout for module is different

Operation Frequency each of channel for 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
<i>Remarks: During the test, pre-scan BLUE bean A, BLUE bean C, RED bean A, RED bean C, found BLUE bean A, was worse case. The report only reflects the worst case.</i>	
<p>The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p>	
Per-scan all kind of data rate, the follow list were the worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps
Listed as Power Setting:	
Mode	Power Setting
802.11b	17
802.11g	16
802.11n(HT20)	16
802.11n(HT40)	14

5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
LENOVO	Laptop	SL510	2847A65	DoC
ULEFONE	Adapter	HJ-0503000K7-EU	N/A	N/A
baofeng	Test suite	PI3B+SD	N/A	N/A
Qualcomm	Test software	QDART-Connectivity100042	N/A	N/A
VanDyke Software	Test software	SecureCRT 8.1	N/A	N/A

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	± 2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	± 2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	± 4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	± 5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	± 2.88 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
 Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		

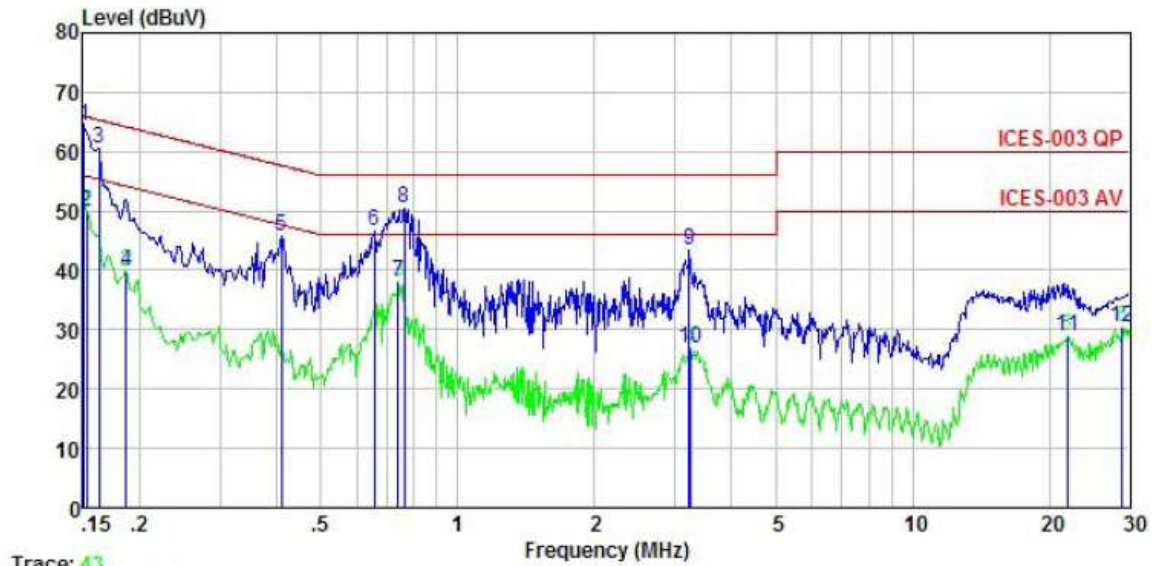
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	RSS-GEN Section 8.8		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 		
Test setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Product name:	Broadband Digital Transmission System	Product model:	BLUE BEAN A
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

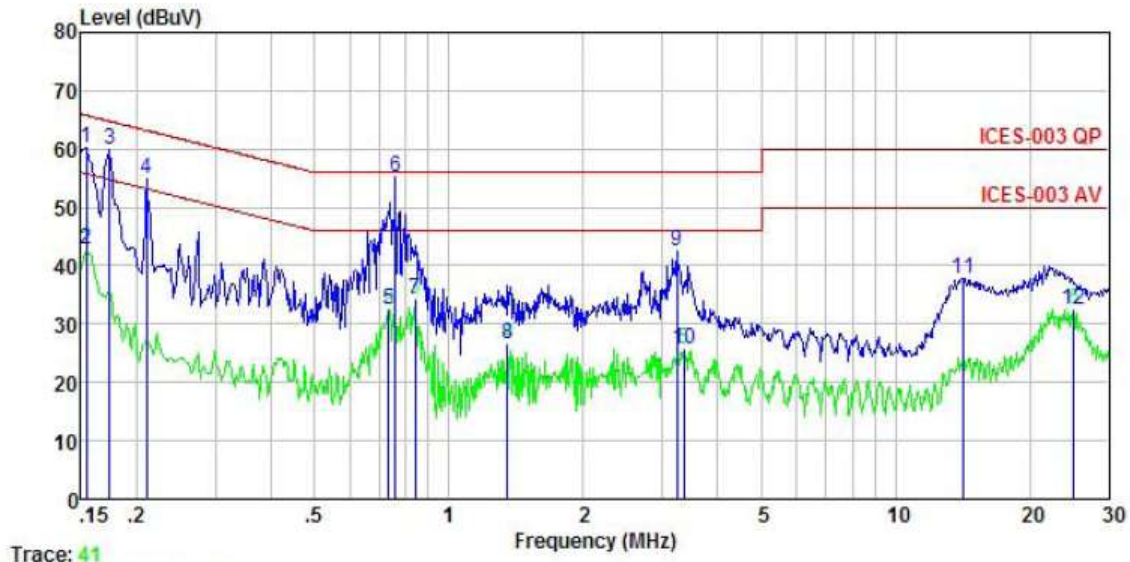


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.151	53.88	-0.45	10.78	64.21	65.96	-1.75	QP
2	0.153	39.52	-0.45	10.78	49.85	55.82	-5.97	Average
3	0.162	50.20	-0.44	10.77	60.53	65.34	-4.81	QP
4	0.186	29.58	-0.42	10.76	39.92	54.20	-14.28	Average
5	0.410	35.50	-0.37	10.72	45.85	57.64	-11.79	QP
6	0.654	36.20	-0.38	10.77	46.59	56.00	-9.41	QP
7	0.739	27.70	-0.38	10.79	38.11	46.00	-7.89	Average
8	0.763	39.98	-0.38	10.80	50.40	56.00	-5.60	QP
9	3.224	33.03	-0.45	10.91	43.49	56.00	-12.51	QP
10	3.258	16.47	-0.45	10.91	26.93	46.00	-19.07	Average
11	21.830	18.91	-1.00	10.91	28.82	50.00	-21.18	Average
12	28.908	20.70	-1.11	10.87	30.46	50.00	-19.54	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Broadband Digital Transmission System	Product model:	BLUE BEAN A
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

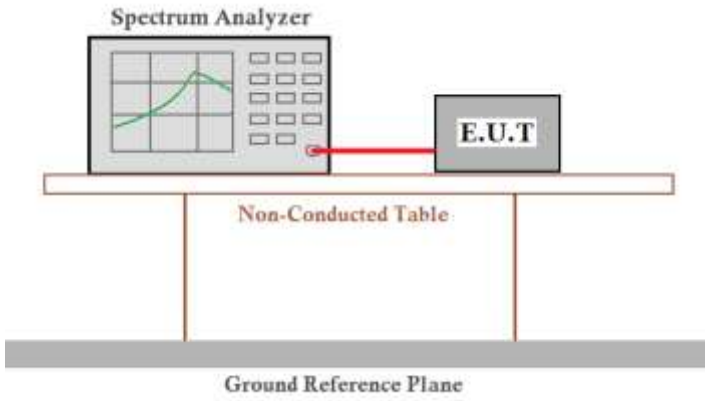


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	50.12	-0.68	10.78	60.22	65.78	-5.56	QP
2	0.154	32.58	-0.68	10.78	42.68	55.78	-13.10	Average
3	0.174	49.72	-0.69	10.77	59.80	64.77	-4.97	QP
4	0.211	44.69	-0.68	10.76	54.77	63.18	-8.41	QP
5	0.731	22.40	-0.64	10.78	32.54	46.00	-13.46	Average
6	0.759	45.02	-0.64	10.80	55.18	56.00	-0.82	QP
7	0.839	24.18	-0.63	10.82	34.37	46.00	-11.63	Average
8	1.352	16.28	-0.65	10.91	26.54	46.00	-19.46	Average
9	3.241	32.31	-0.68	10.91	42.54	56.00	-13.46	QP
10	3.364	15.59	-0.68	10.91	25.82	46.00	-20.18	Average
11	14.213	27.67	-0.81	10.91	37.77	60.00	-22.23	QP
12	25.055	23.01	-1.44	10.87	32.44	50.00	-17.56	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

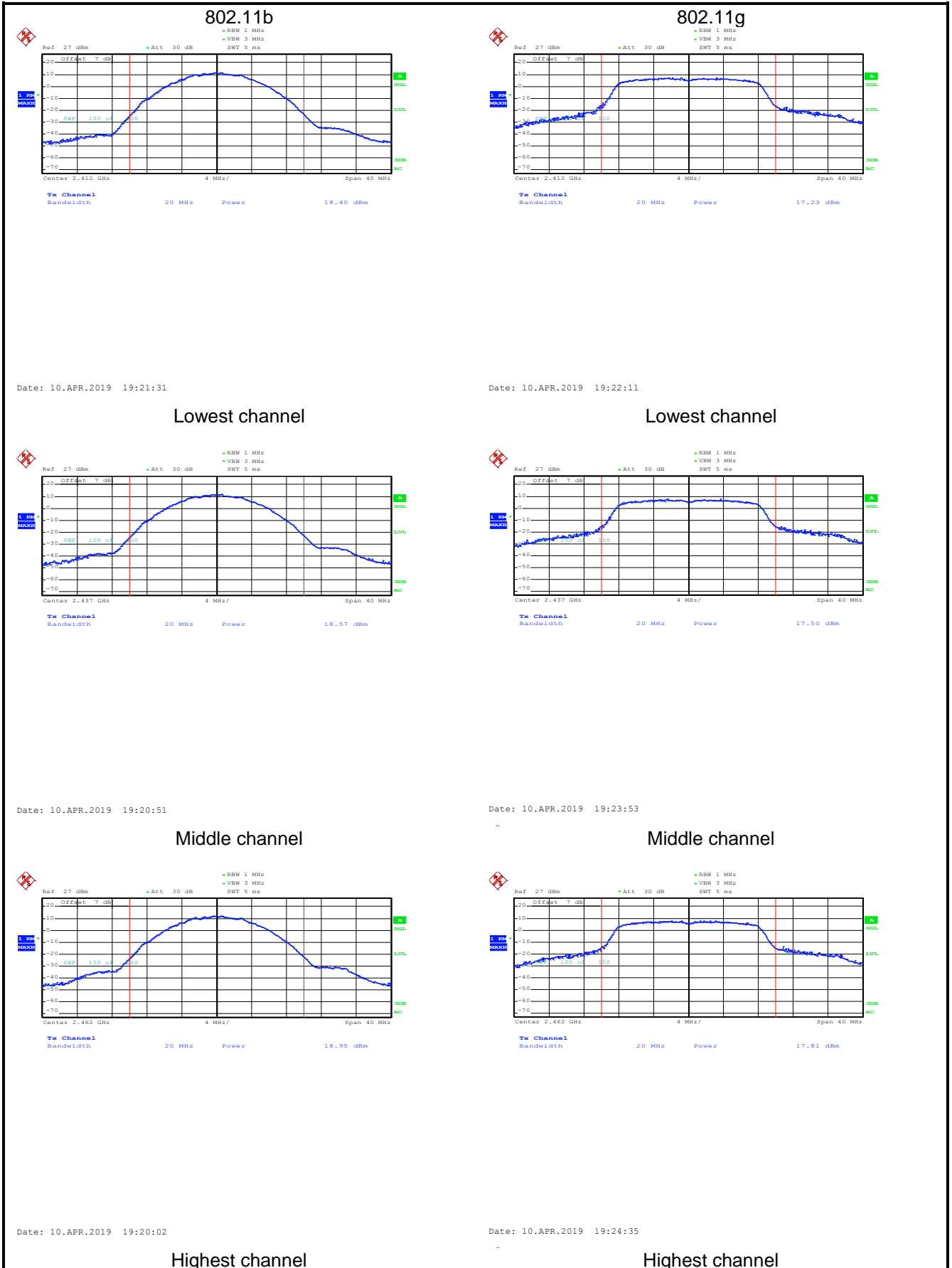
6.2 Conducted Output Power

Test Requirement:	RSS-247 section 5.4(d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm(The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.)
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

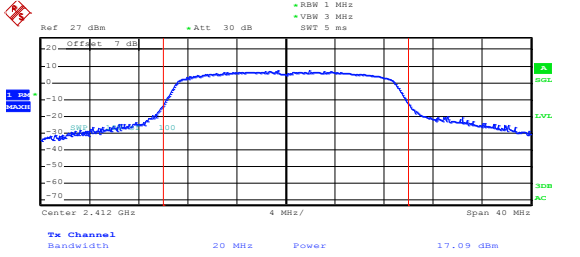
Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	18.40	17.23	17.09	15.55	30.00	Pass
Middle	18.57	17.50	17.34	15.75		
Highest	18.95	17.81	17.64	15.88		

Test plot as follows:

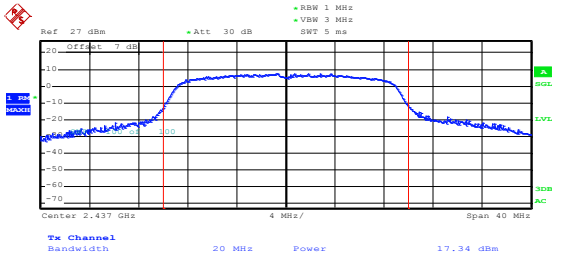


802.11n(HT20)



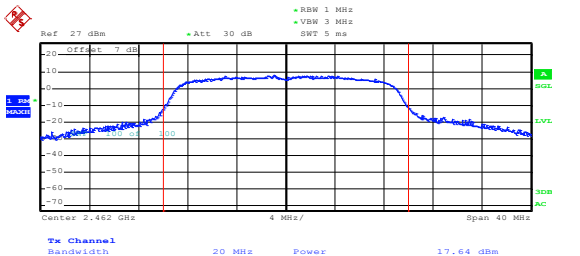
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Lowest channel



Date: 10.APR.2019 19:23:23

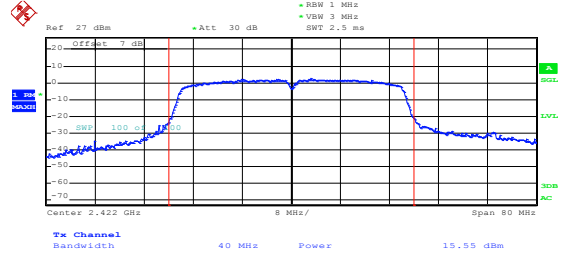
Middle channel



Date: 10.APR.2019 19:25:01

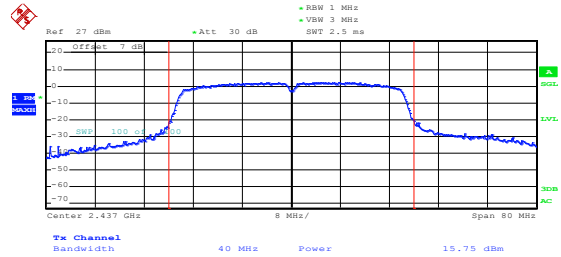
Highest channel

802.11n(HT40)



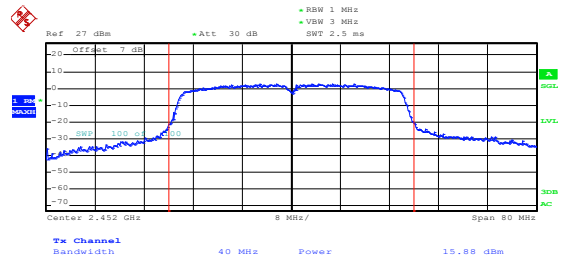
Date: 10.APR.2019 19:26:24

Lowest channel



Date: 10.APR.2019 19:26:50

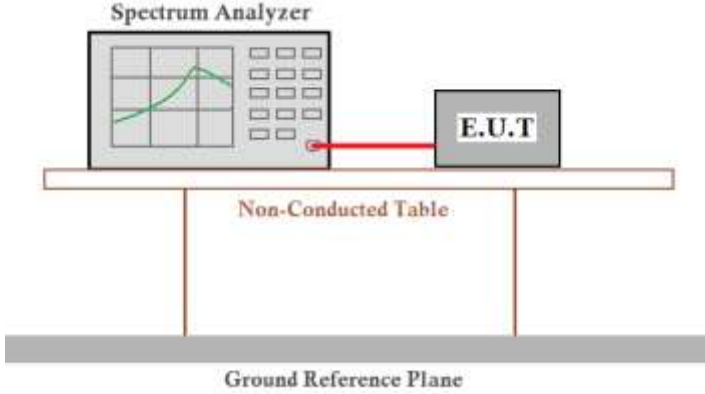
Middle channel



Date: 10.APR.2019 19:27:17

Highest channel

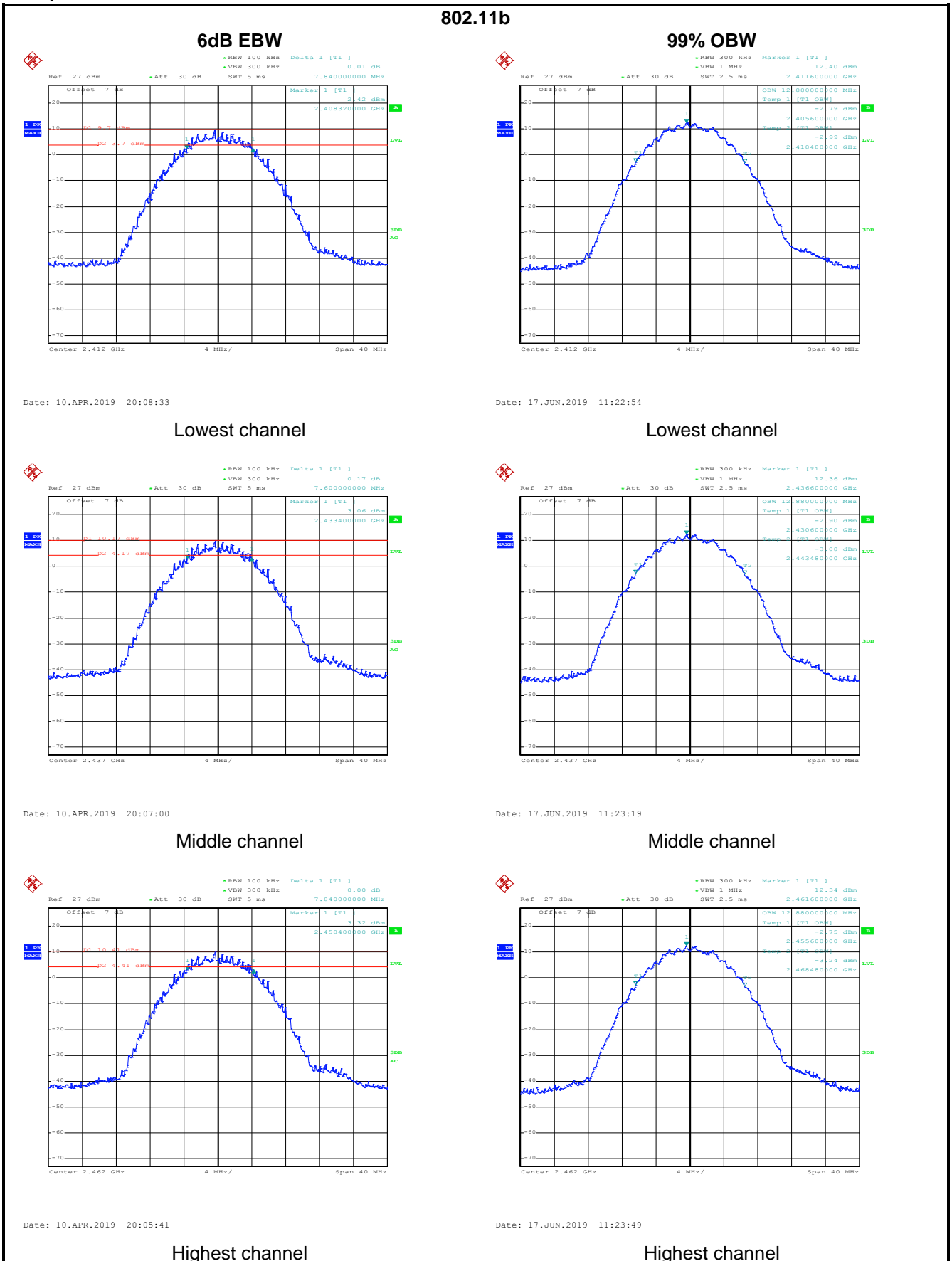
6.3 Occupy Bandwidth

Test Requirement:	RSS-247 section 5.2(a)
Test Method:	ANSI C63.10:2013 and KDB 558074 and RSS-Gen Issue 5 Section 6.7
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

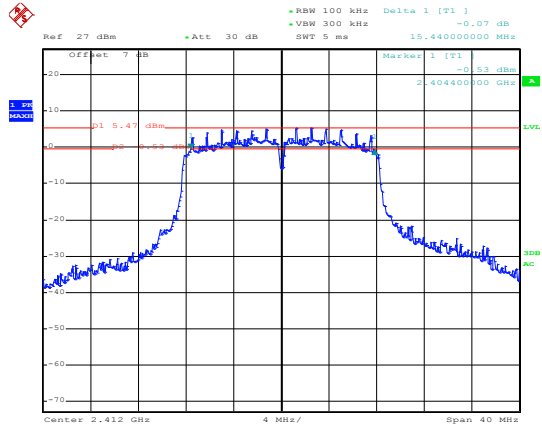
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	7.84	15.44	16.00	36.00	>500	Pass
Middle	7.60	15.60	15.60	36.00		
Highest	7.84	15.68	16.00	35.68		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	12.88	16.32	17.52	36.16	N/A	N/A
Middle	12.88	16.40	17.52	36.16		
Highest	12.88	16.40	17.44	36.16		

Test plot as follows:



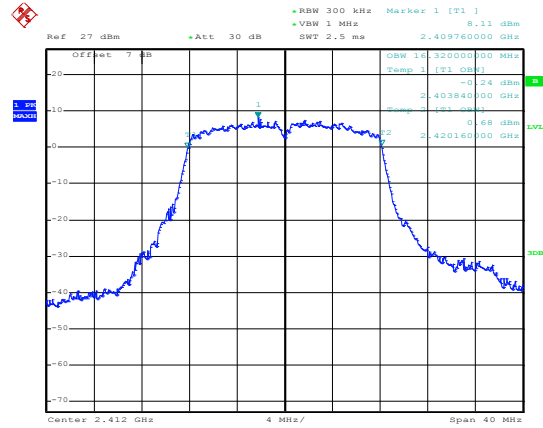
802.11g

6dB EBW



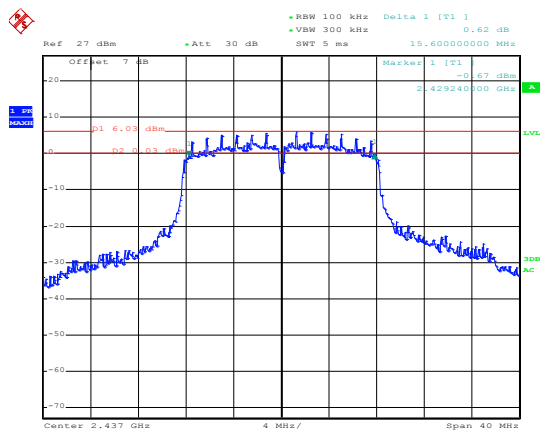
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99% OBW



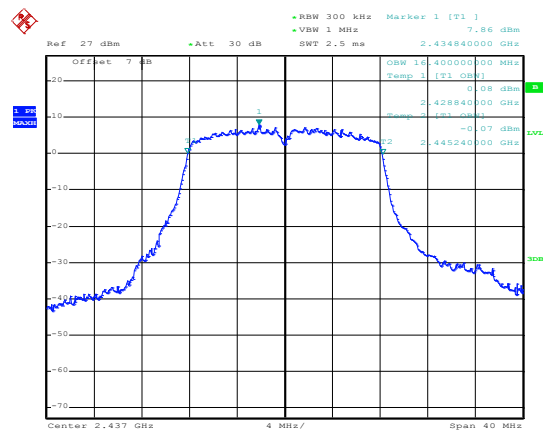
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Lowest channel



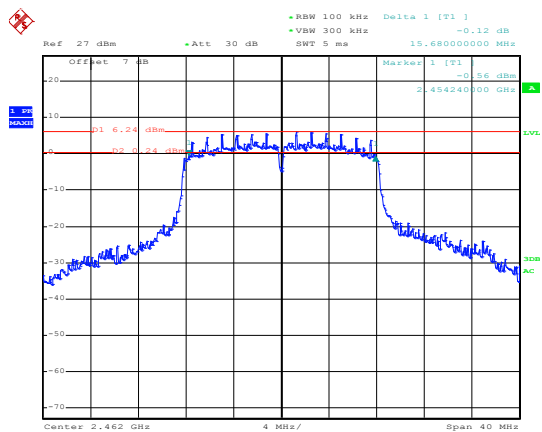
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Lowest channel



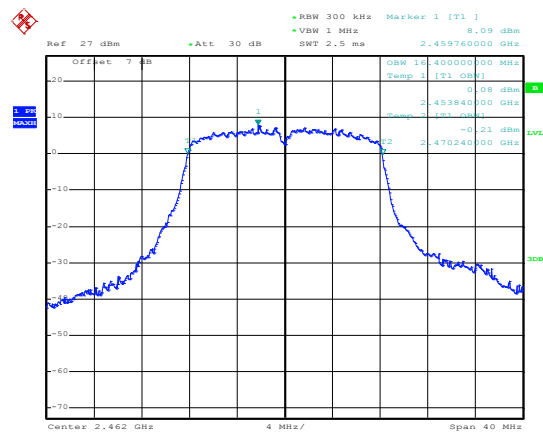
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Middle channel



Date: 10.APR.2019 20:15:11

Middle channel



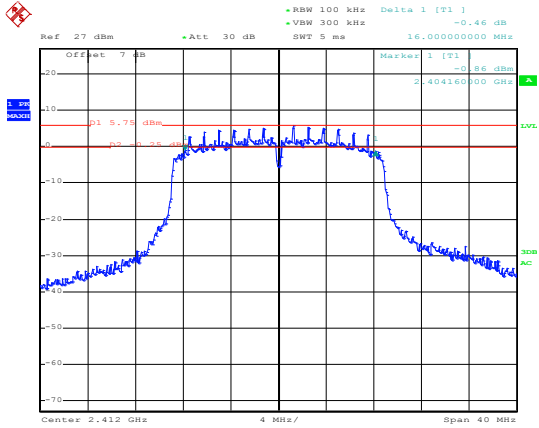
Date: 17.JUN.2019 11:24:27

Highest channel

Highest channel

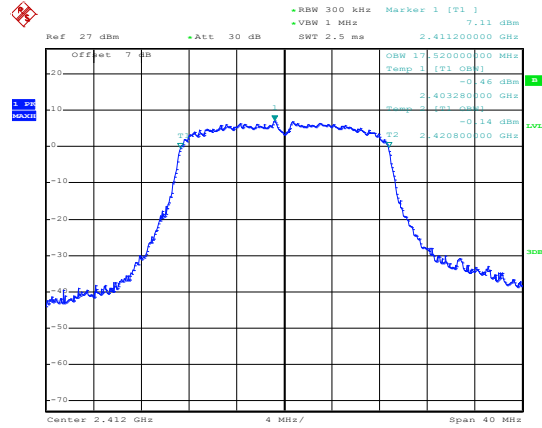
802.11n(H20)

6dB EBW



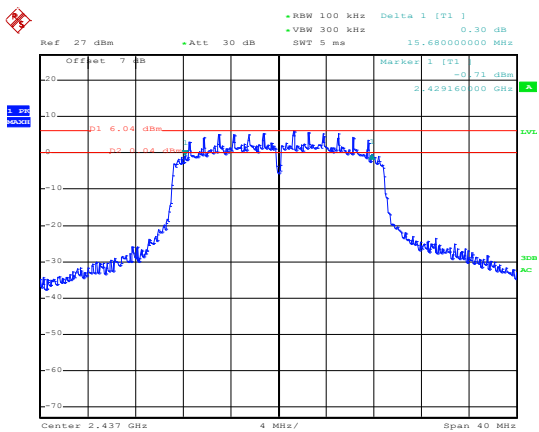
Date: 10.APR.2019 20:11:22

99% OBW



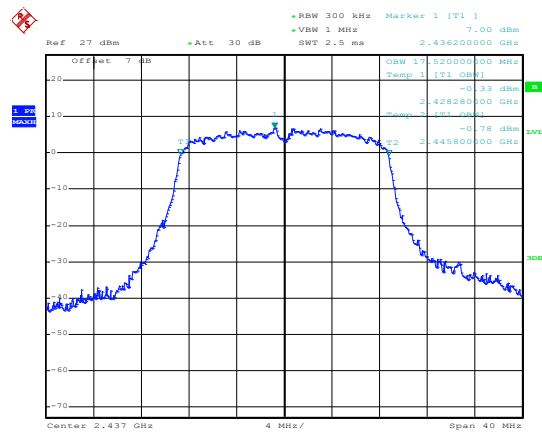
Date: 17.JUN.2019 11:25:59

Lowest channel



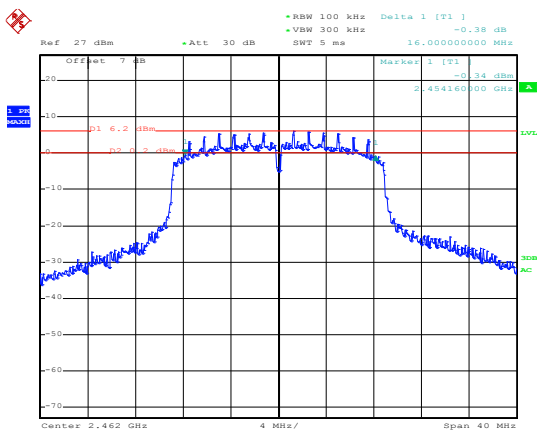
Date: 10.APR.2019 20:12:26

Lowest channel



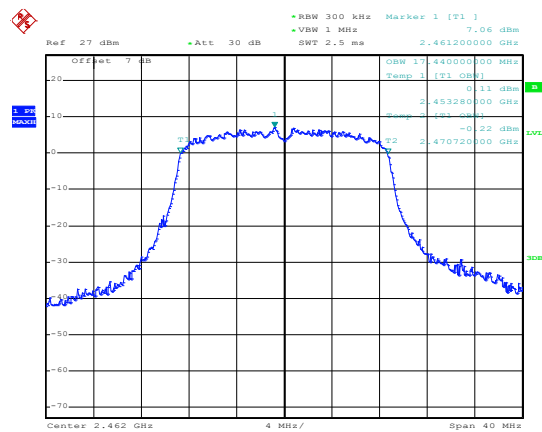
Date: 17.JUN.2019 11:26:19

Middle channel



Date: 10.APR.2019 20:16:27

Middle channel



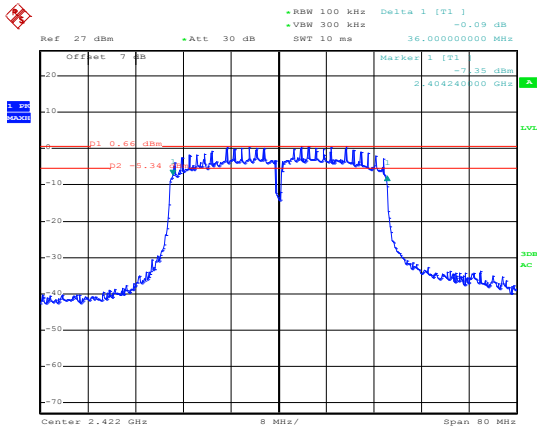
Date: 17.JUN.2019 11:26:38

Highest channel

Highest channel

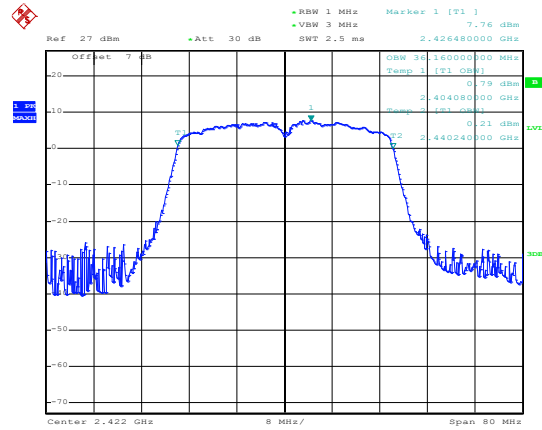
802.11n(H40)

6dB EBW



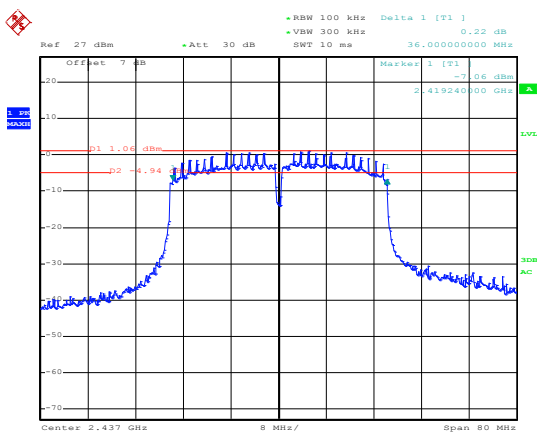
Date: 10.APR.2019 20:23:00

99% OBW



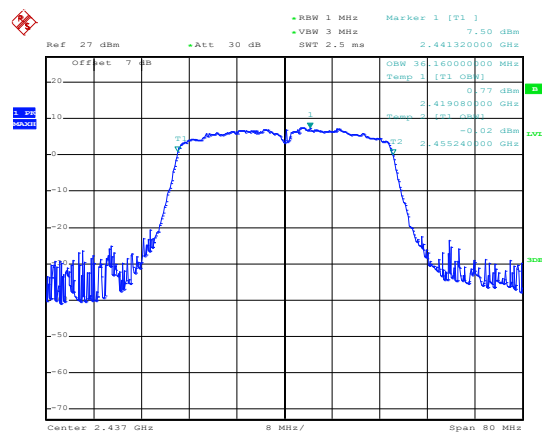
Date: 17.JUN.2019 11:27:22

Lowest channel



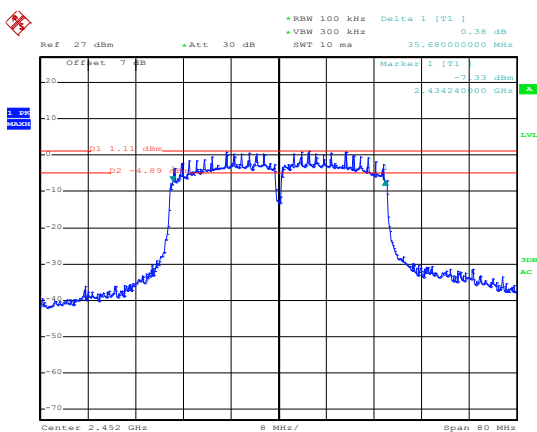
Date: 10.APR.2019 20:24:03

Lowest channel



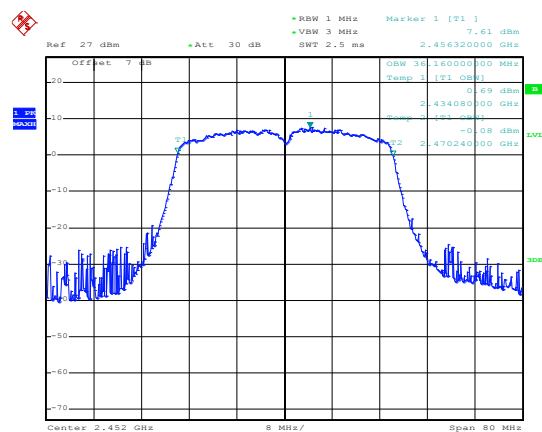
Date: 17.JUN.2019 11:27:44

Middle channel



Date: 10.APR.2019 20:25:38

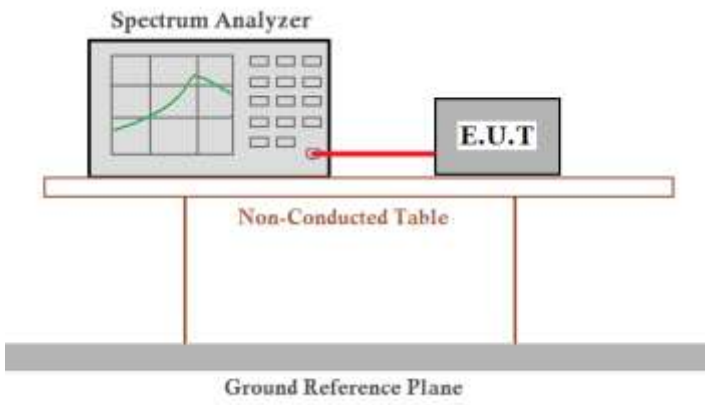
Middle channel



Date: 17.JUN.2019 11:28:27

Highest channel

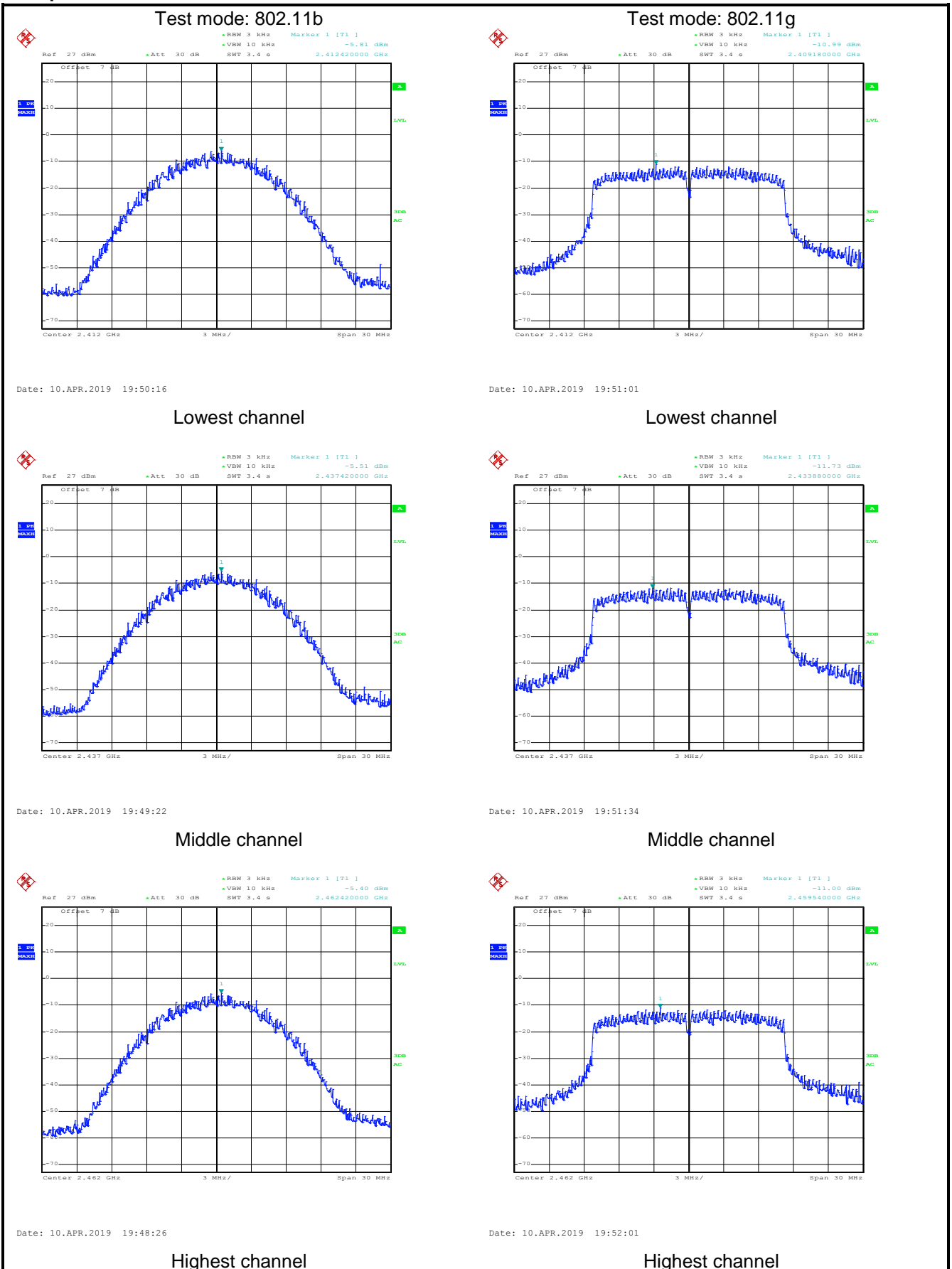
6.4 Power Spectral Density

Test Requirement:	RSS-247 section 5.2(b)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

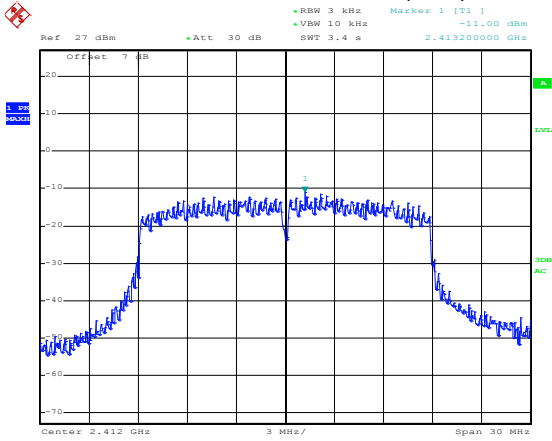
Measurement Data:

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-5.81	-10.99	-11.00	-16.15	8.00	Pass
Middle	-5.51	-11.73	-11.00	-13.88		
Highest	-5.40	-11.00	-11.16	-13.76		

Test plot as follows:

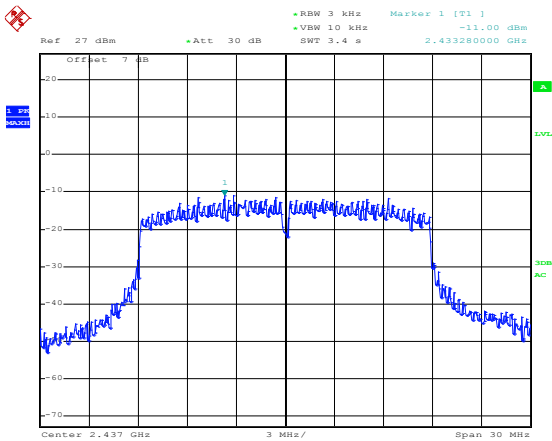


Test mode: 802.11n(H20)



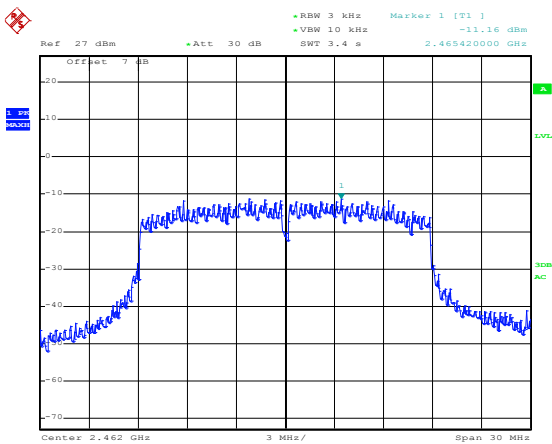
Date: 10.APR.2019 19:54:00

Lowest channel



Date: 10.APR.2019 19:53:31

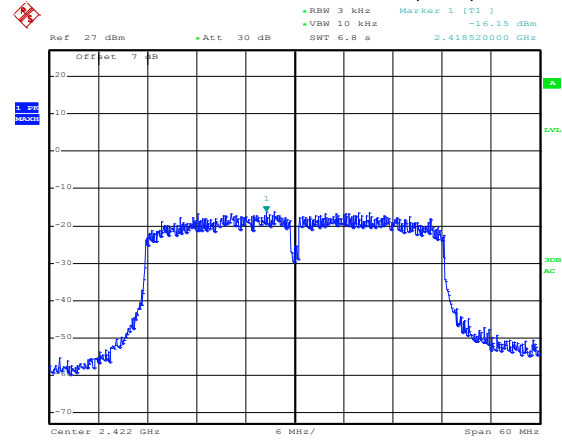
Middle channel



Date: 10.APR.2019 19:52:54

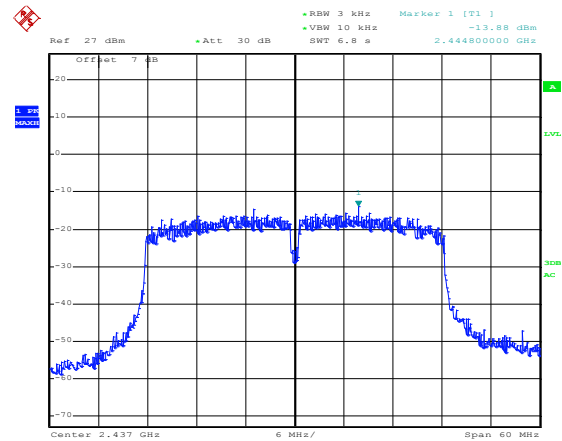
Highest channel

Test mode: 802.11n(H40)



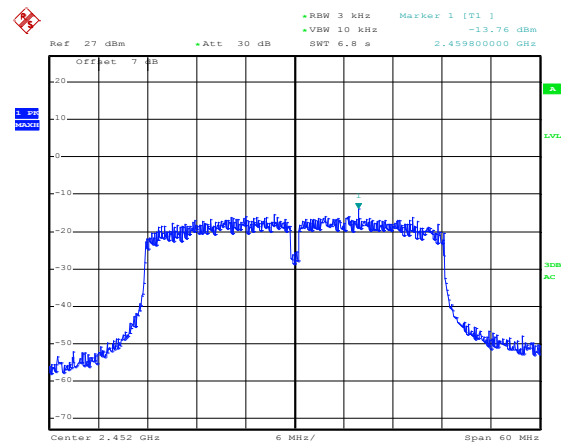
Date: 10.APR.2019 19:55:00

Lowest channel



Date: 10.APR.2019 19:55:38

Middle channel

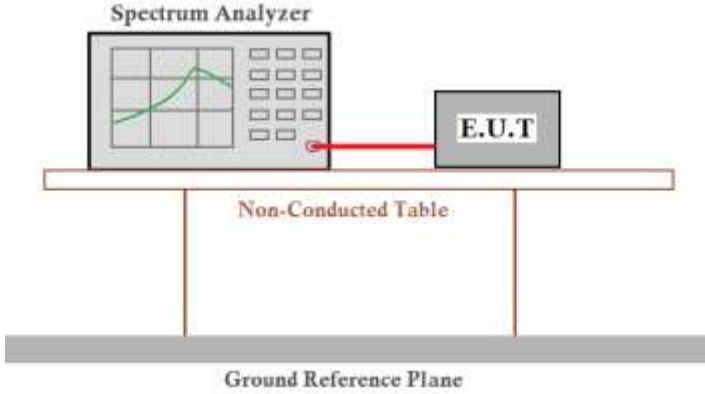


Date: 10.APR.2019 19:58:14

Highest channel

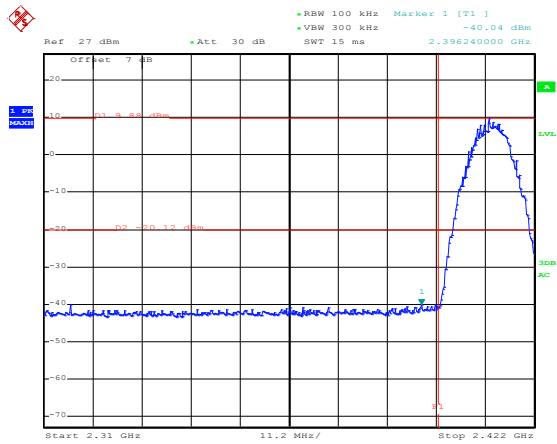
6.5 Band Edge

6.5.1 Conducted Emission Method

Test Requirement:	RSS-247 section 5.5
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

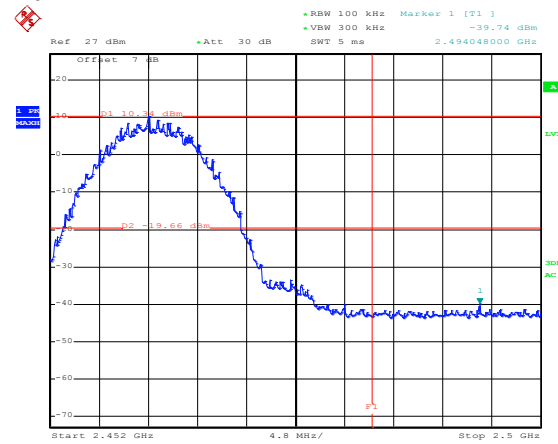
Test plot as follows:

802.11b



Date: 10.APR.2019 19:41:35

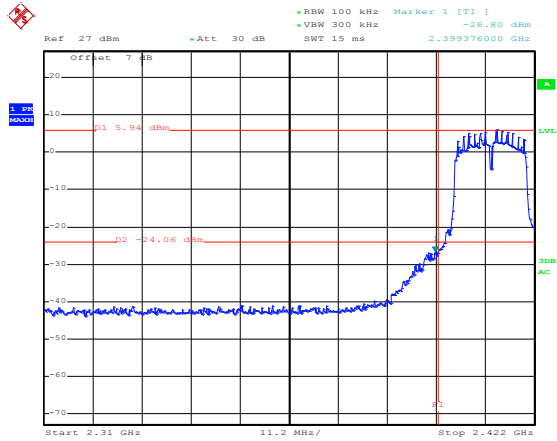
Lowest channel



Date: 10.APR.2019 19:42:47

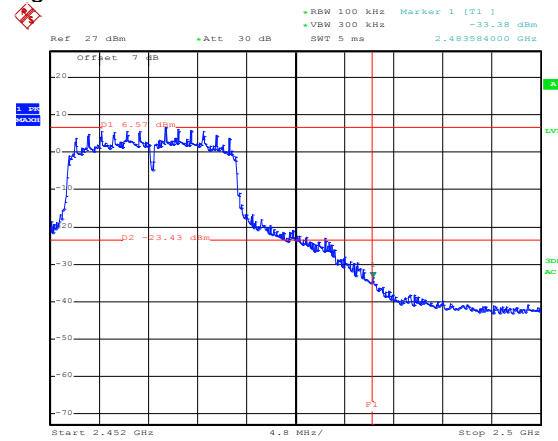
Highest channel

802.11g



Date: 10.APR.2019 18:55:53

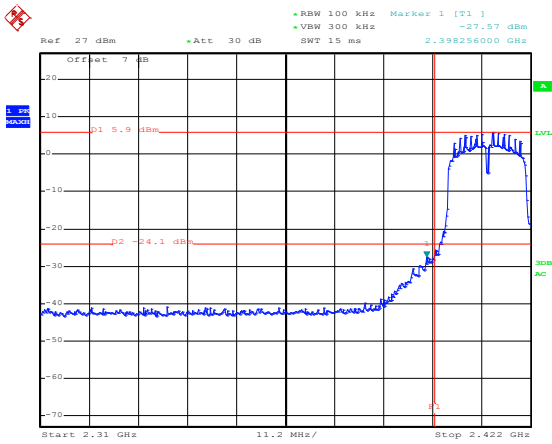
Lowest channel



Date: 10.APR.2019 19:12:22

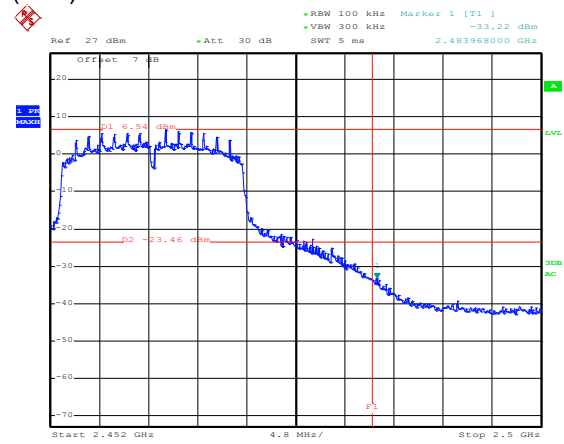
Highest channel

802.11n(H20)



Date: 10.APR.2019 19:00:16

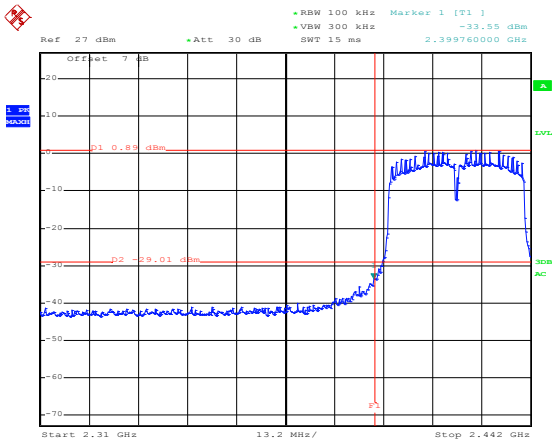
Lowest channel



Date: 10.APR.2019 19:11:05

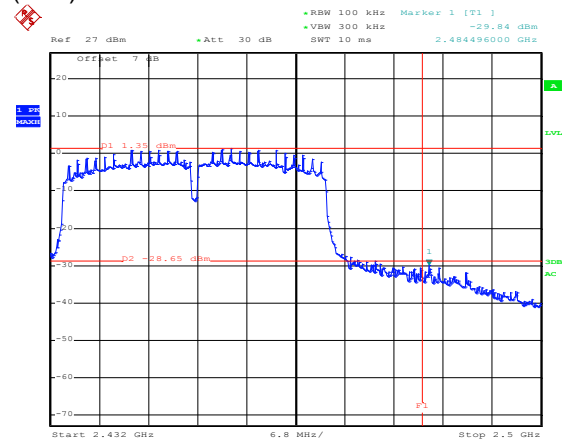
Highest channel

802.11n(H40)



Date: 10.APR.2019 19:08:01

Lowest channel



Date: 10.APR.2019 19:06:10

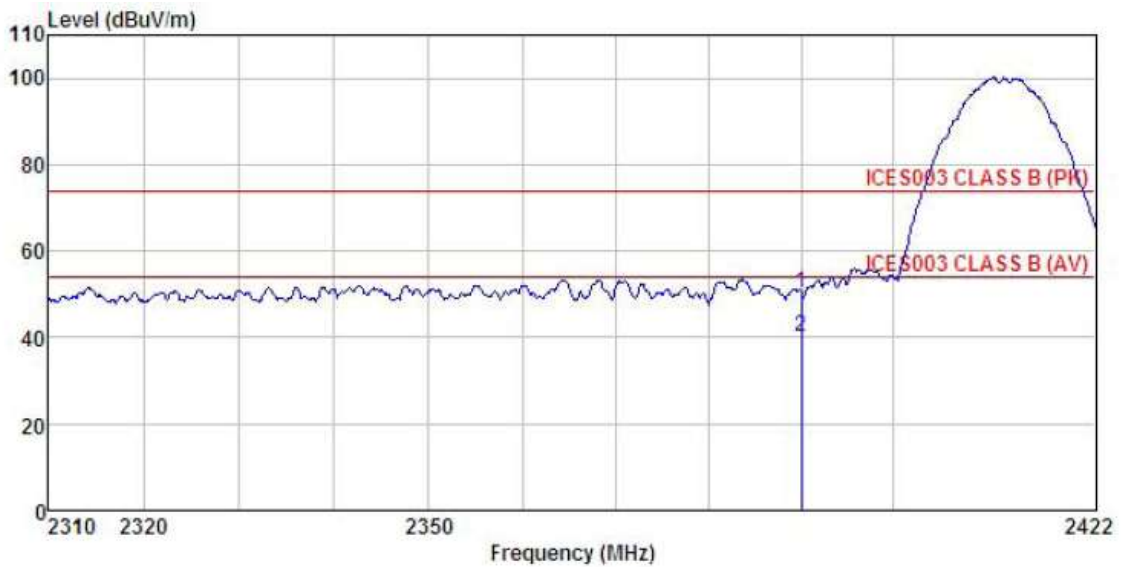
Highest channel

6.5.2 Radiated Emission Method

Test Requirement:	RSS-GEN section 8.10				
Test Method:	ANSI C63.10: 2013 and KDB 558074				
Test Frequency Range:	2.3GHz to 2.5GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				
Test setup:					
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

External Antenna A:

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

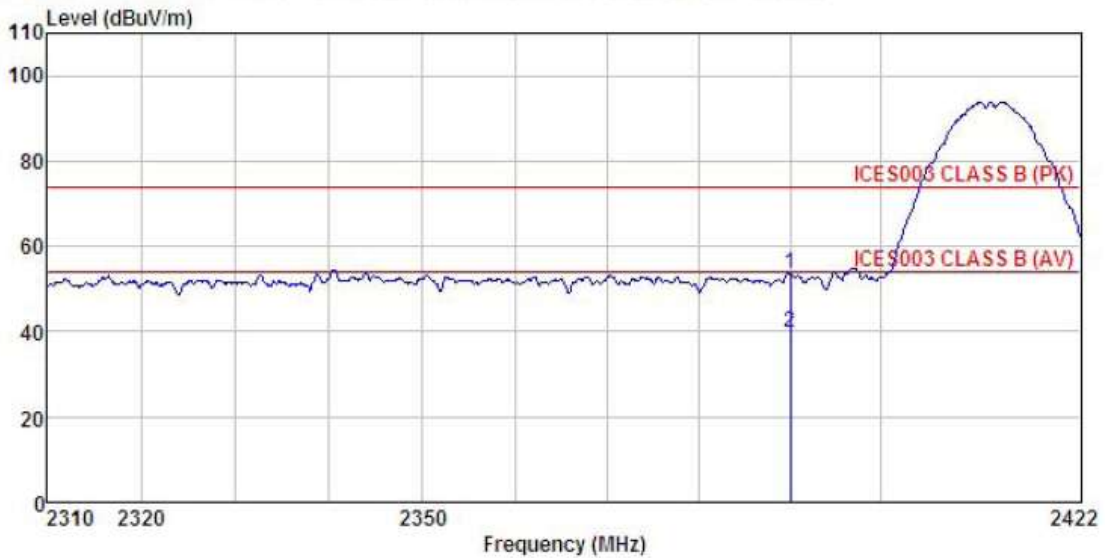


	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	18.67	27.07	4.69	0.00	50.43	74.00	-23.57	Peak
2	2390.000	8.61	27.07	4.69	0.00	40.37	54.00	-13.63	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

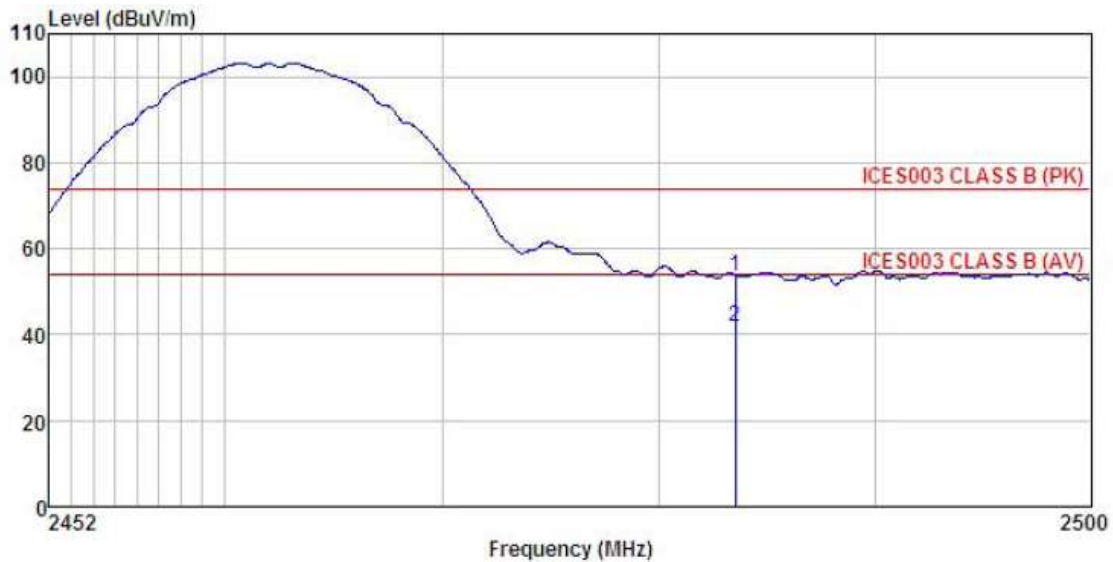


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	21.75	27.08	4.69	0.00	53.52	74.00	-20.48	Peak
2	2390.000	8.17	27.08	4.69	0.00	39.94	54.00	-14.06	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

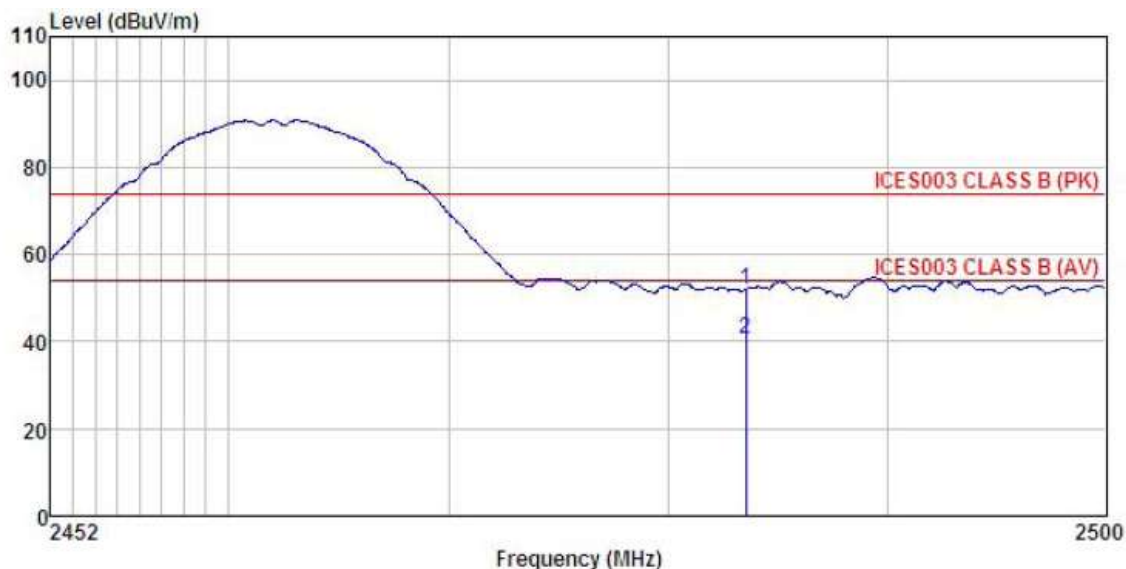


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	21.55	27.36	4.81	0.00	53.72	74.00	-20.28	Peak
2	2483.500	9.45	27.36	4.81	0.00	41.62	54.00	-12.38	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

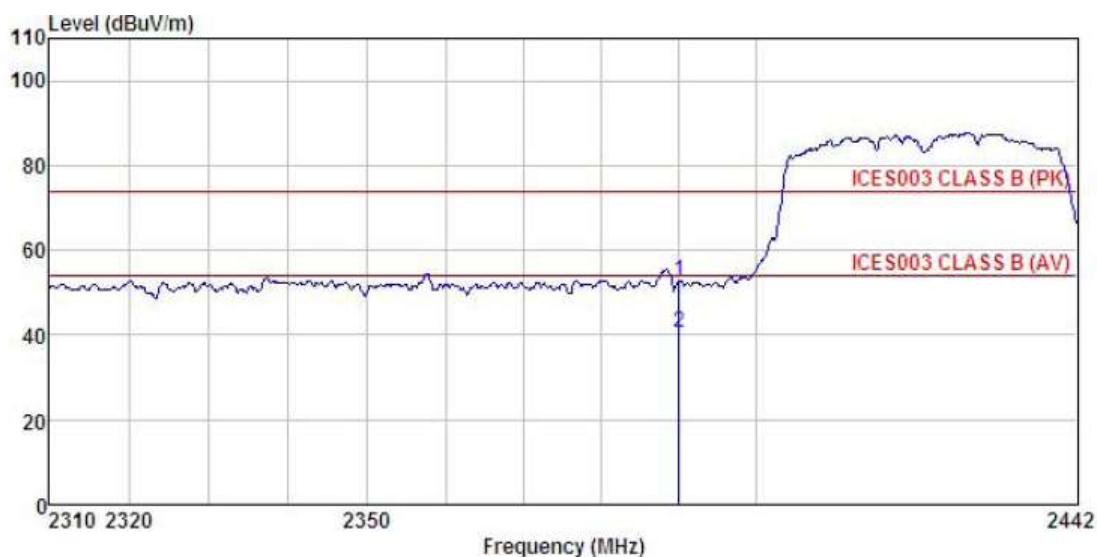


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.82	27.35	4.81	0.00	51.98	74.00	-22.02 Peak
2	2483.500	8.63	27.35	4.81	0.00	40.79	54.00	-13.21 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

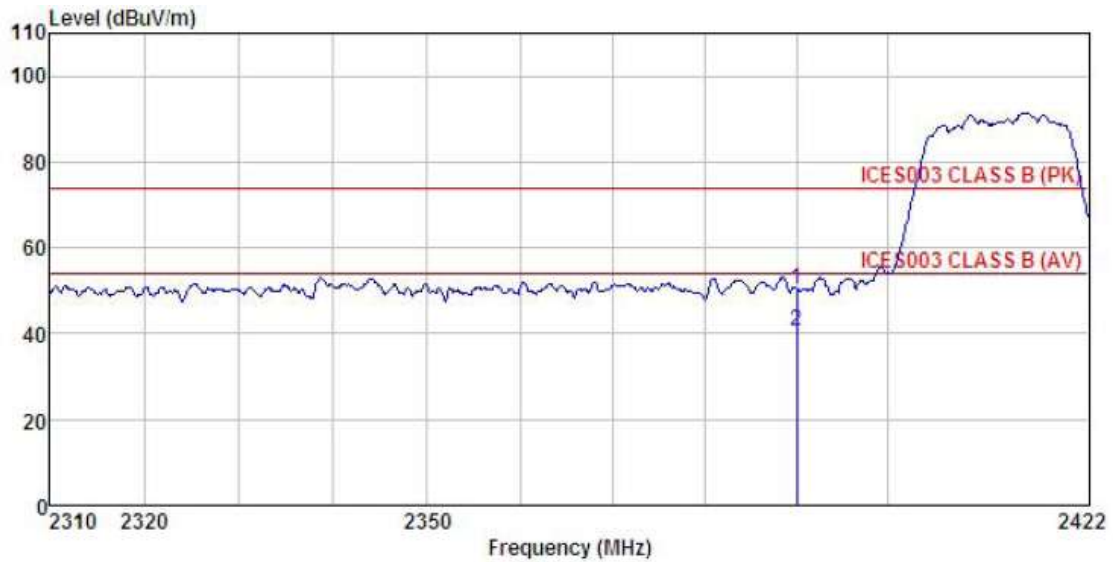


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	21.18	27.08	4.69	0.00	52.95	74.00 -21.05 Peak
2	2390.000	8.65	27.08	4.69	0.00	40.42	54.00 -13.58 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

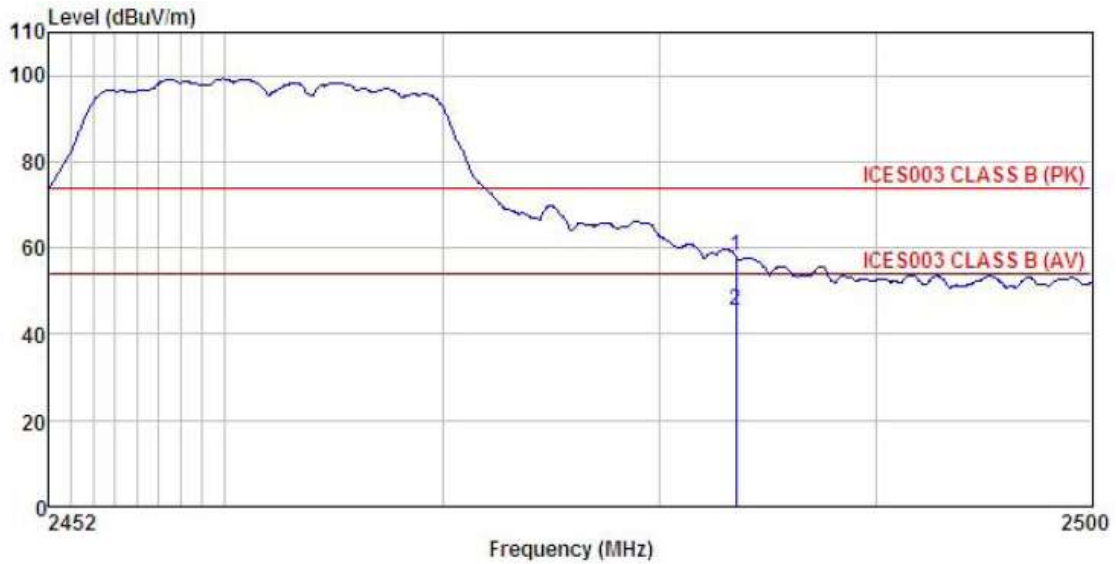


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	18.38	27.08	4.69	0.00	50.15	74.00	-23.85 Peak
2	2390.000	8.64	27.08	4.69	0.00	40.41	54.00	-13.59 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

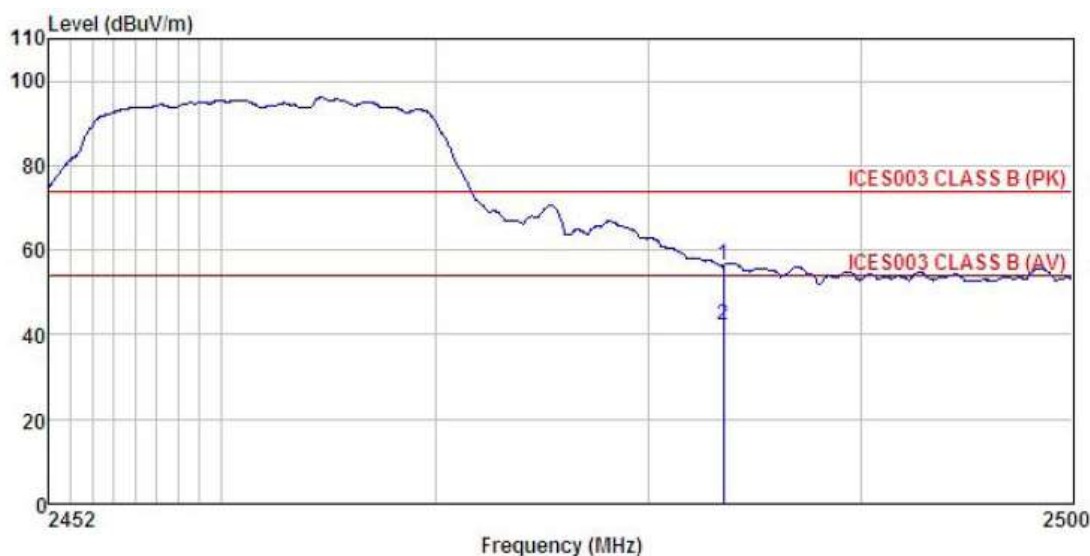


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.84	27.36	4.81	0.00	58.01	74.00	-15.99	Peak
2	2483.500	13.32	27.36	4.81	0.00	45.49	54.00	-8.51	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

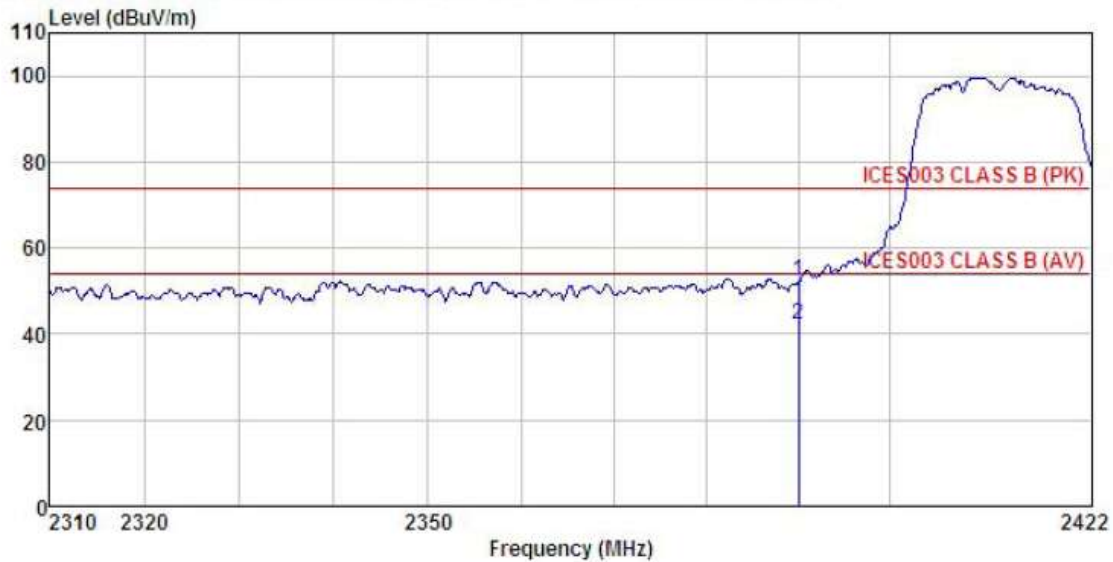


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	24.26	27.35	4.81	0.00	56.42	74.00	-17.58 Peak
2	2483.500	9.97	27.35	4.81	0.00	42.13	54.00	-11.87 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

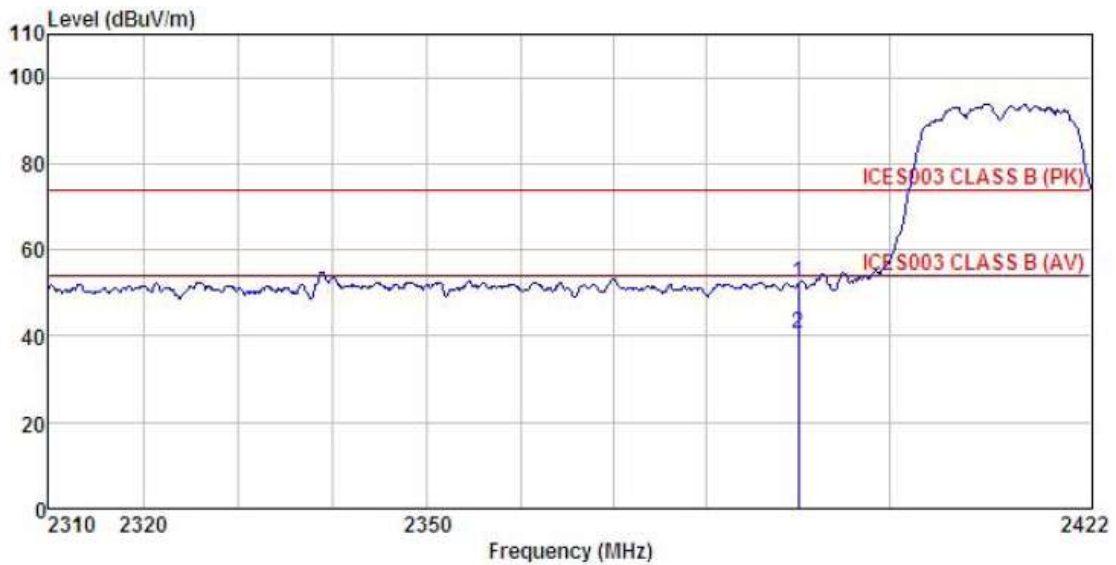


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.61	27.07	4.69	0.00	52.37	74.00	-21.63	Peak
2	2390.000	10.28	27.07	4.69	0.00	42.04	54.00	-11.96	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

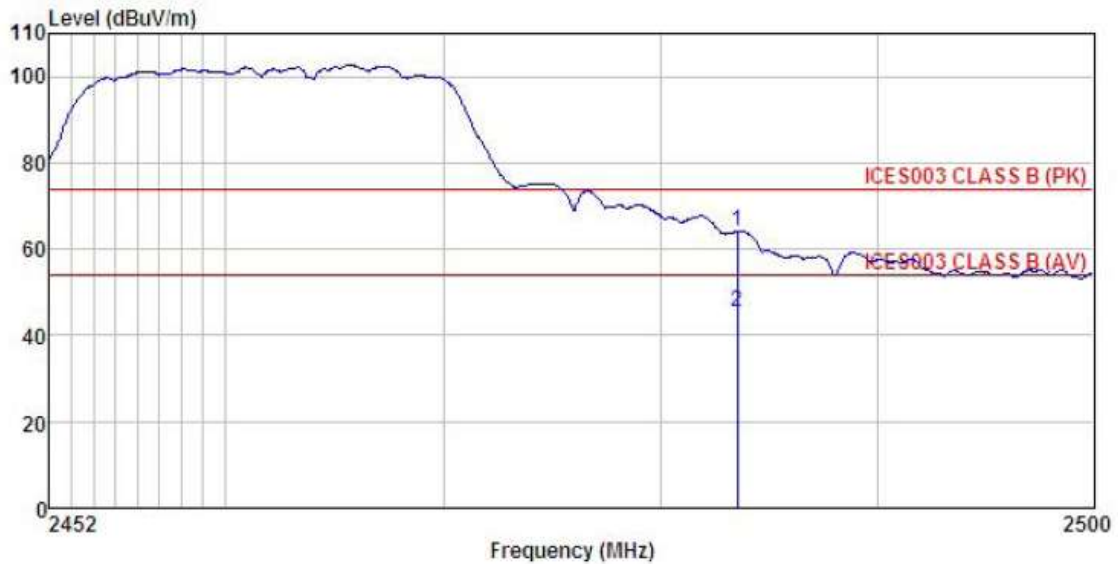


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.67	27.08	4.69	0.00	52.44	74.00	-21.56 Peak
2	2390.000	8.65	27.08	4.69	0.00	40.42	54.00	-13.58 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

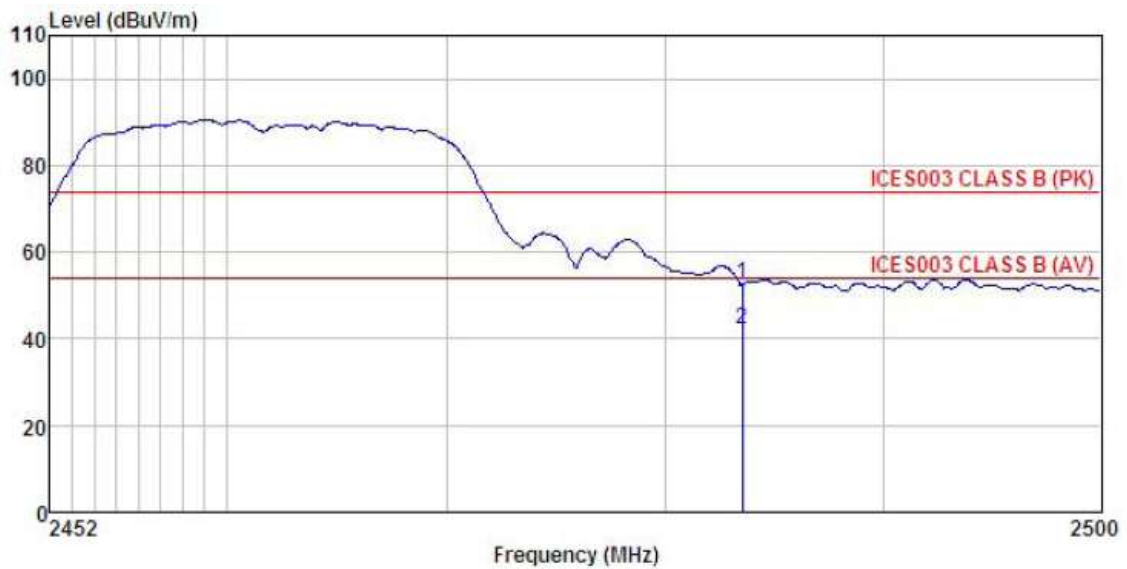


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	31.99	27.36	4.81	0.00	64.16	74.00	-9.84	Peak
2	2483.500	13.33	27.36	4.81	0.00	45.50	54.00	-8.50	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

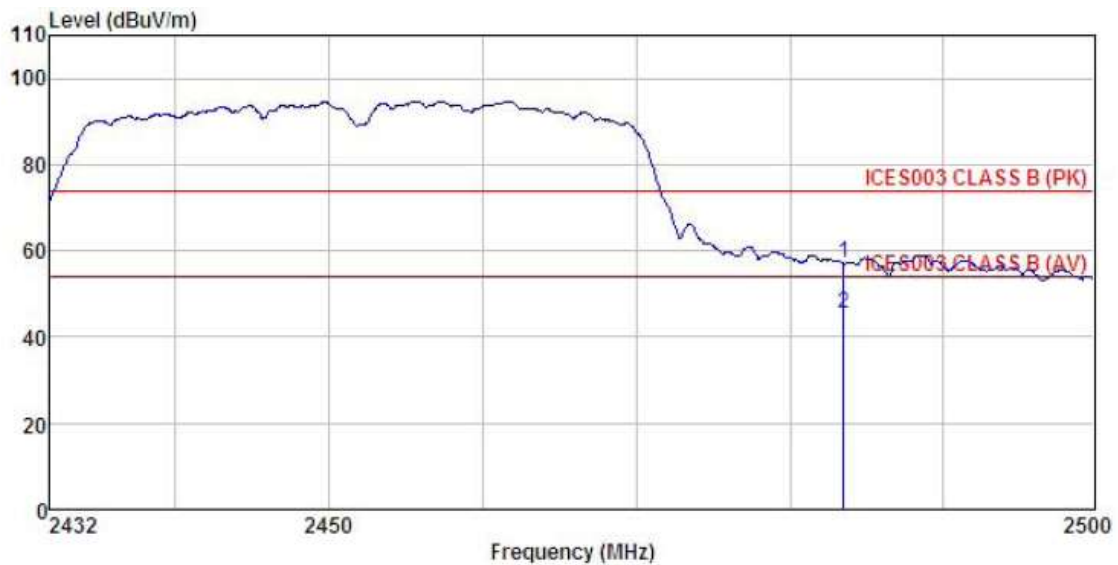


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	20.55	27.35	4.81	0.00	52.71	74.00 -21.29 Peak
2	2483.500	9.98	27.35	4.81	0.00	42.14	54.00 -11.86 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

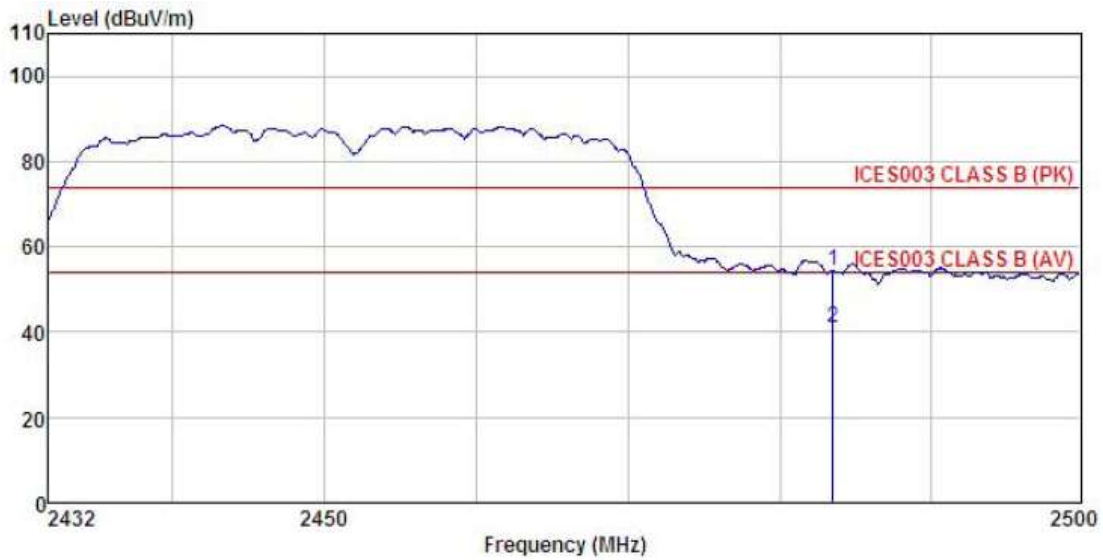


	Freq	ReadAntenna	Cable Preamp	Limit	Over	Remark			
	MHz	Level	Loss	Line	Limit				
		dBuV	dB/m	dB	dB	dBuV/m			
1	2483.500	24.94	27.36	4.81	0.00	57.11	74.00	-16.89	Peak
2	2483.500	13.30	27.36	4.81	0.00	45.47	54.00	-8.53	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

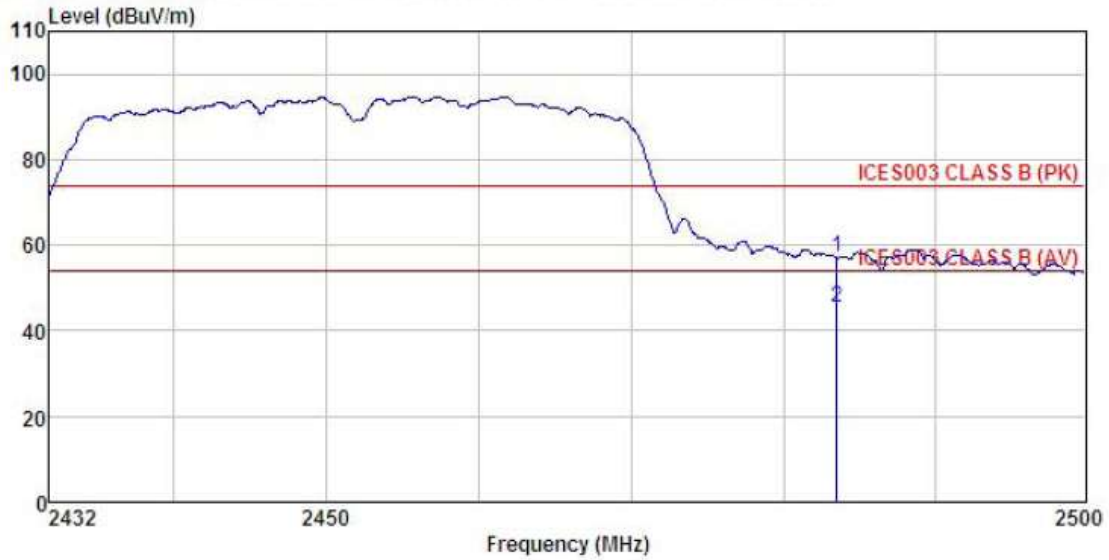


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.19	27.35	4.81	0.00	54.35	74.00	-19.65	Peak
2	2483.500	8.78	27.35	4.81	0.00	40.94	54.00	-13.06	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

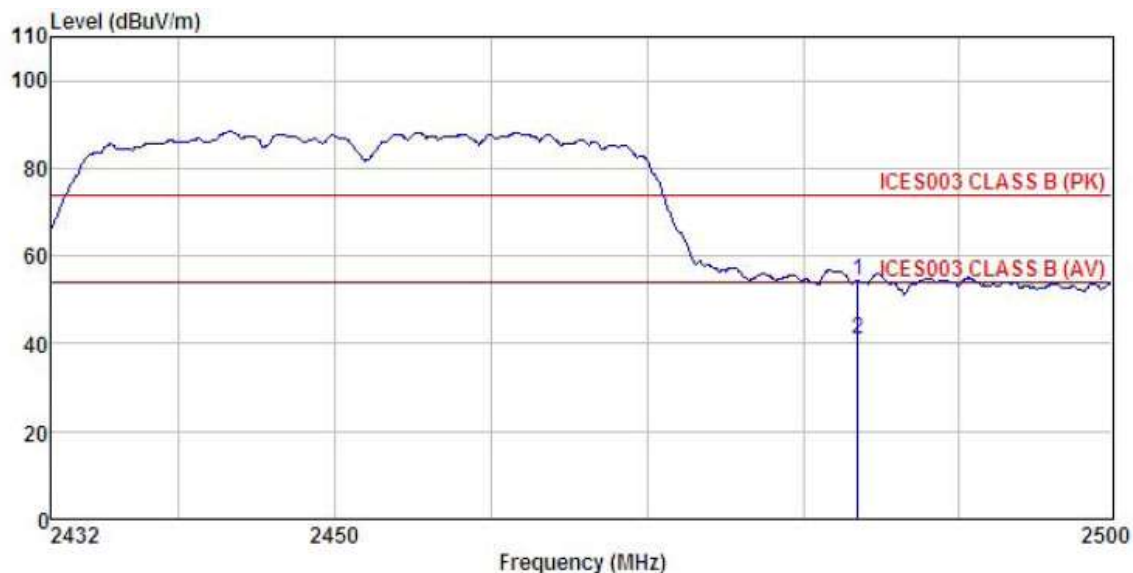


	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2483.500	24.94	27.36	4.81	0.00	57.11	74.00	-16.89 Peak
2	2483.500	13.30	27.36	4.81	0.00	45.47	54.00	-8.53 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



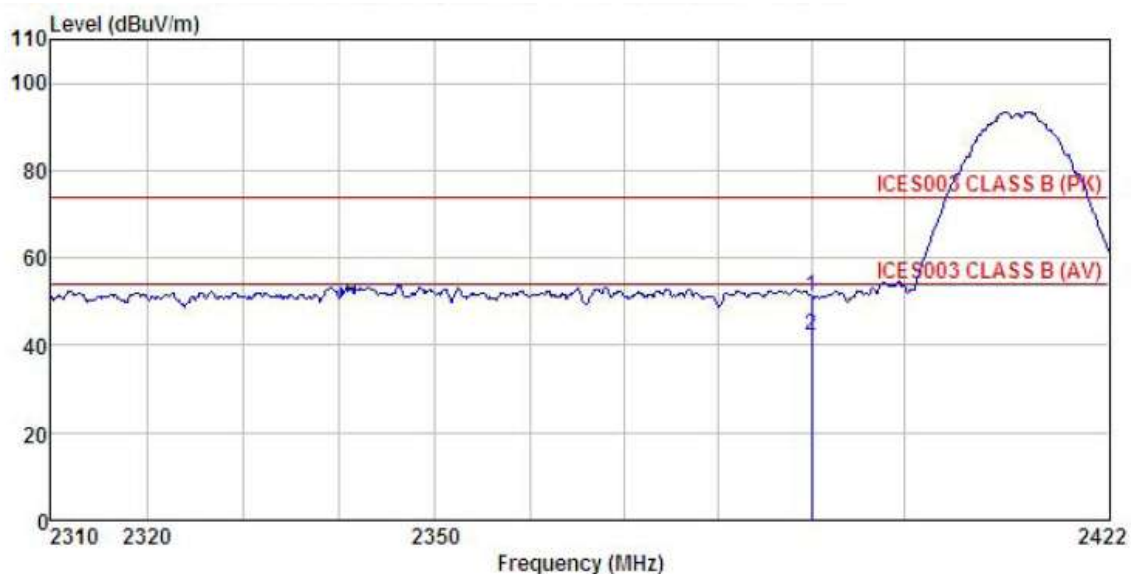
	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	22.19	27.35	4.81	0.00	54.35	74.00	-19.65	Peak
2	2483.500	8.78	27.35	4.81	0.00	40.94	54.00	-13.06	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

External Antenna B:

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

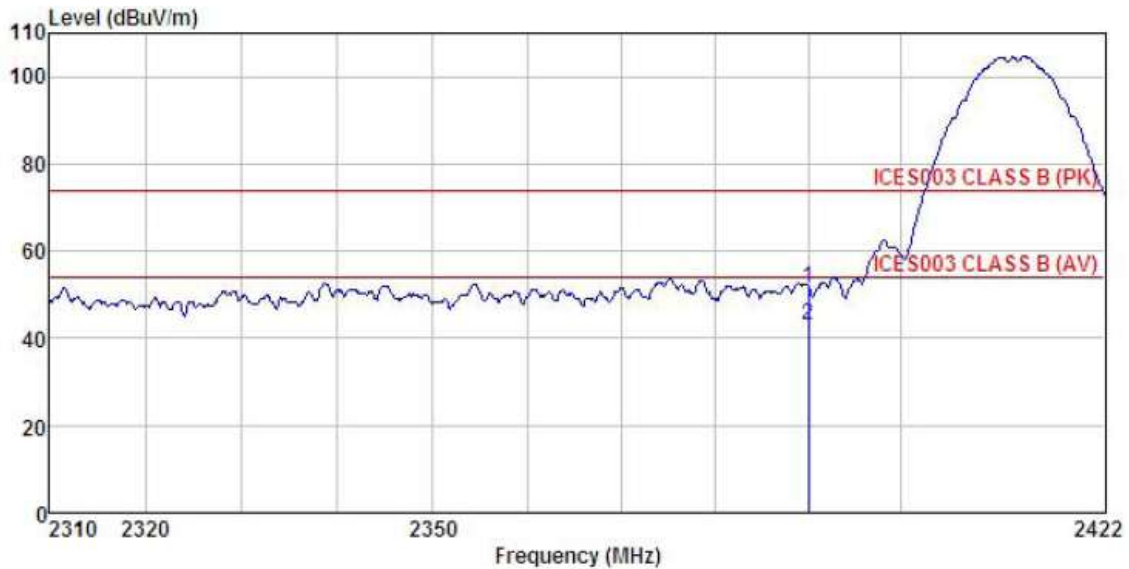


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	19.26	27.07	4.69	0.00	51.02	74.00	-22.98 Peak
2	2390.000	10.35	27.07	4.69	0.00	42.11	54.00	-11.89 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

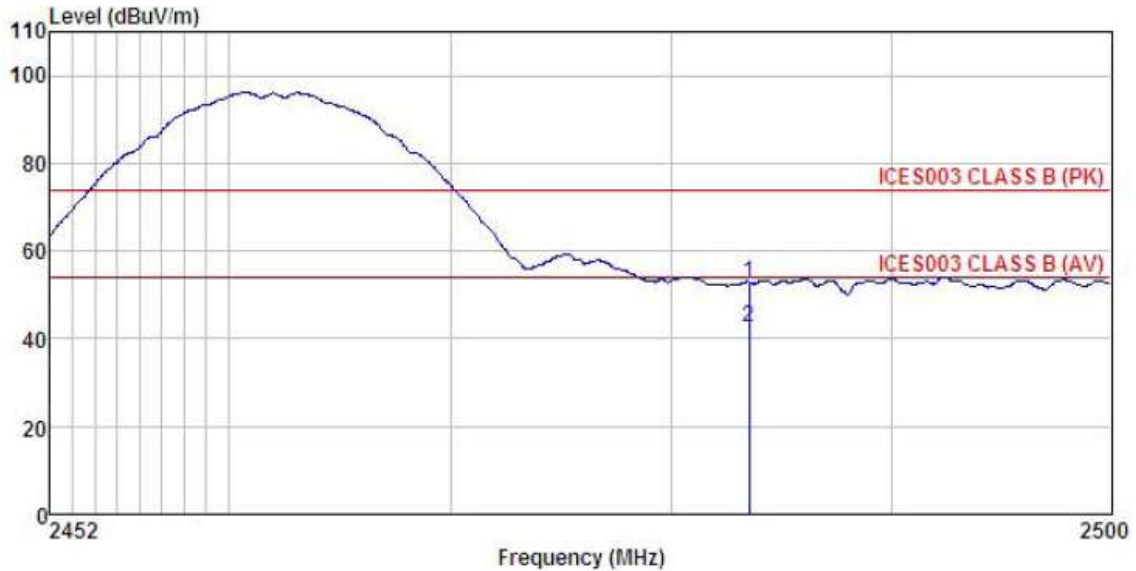


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	19.78	27.08	4.69	0.00	51.55	74.00	-22.45 Peak
2	2390.000	11.43	27.08	4.69	0.00	43.20	54.00	-10.80 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

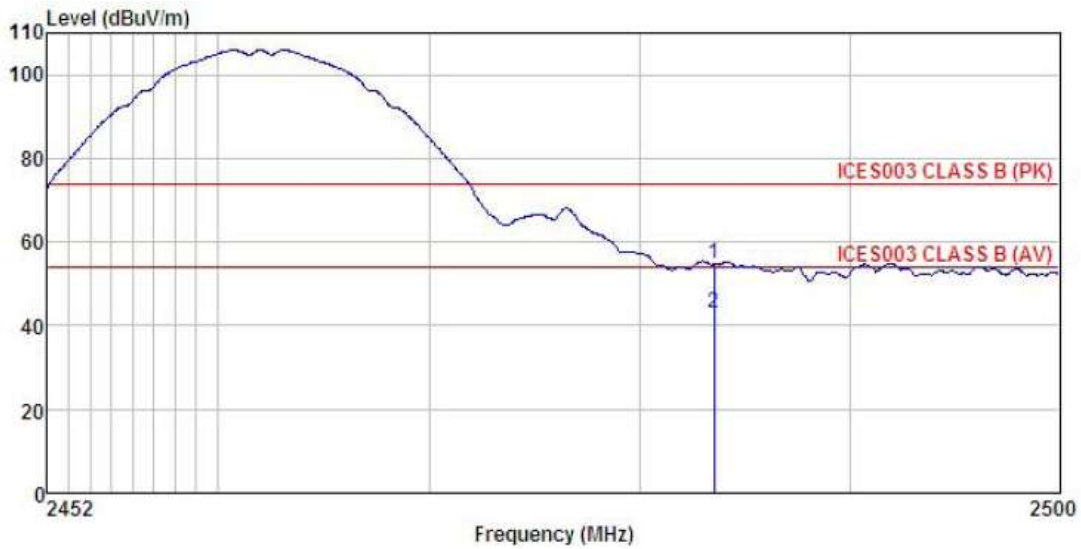


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.76	27.36	4.81	0.00	52.93	74.00	-21.07 Peak
2	2483.500	10.51	27.36	4.81	0.00	42.68	54.00	-11.32 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

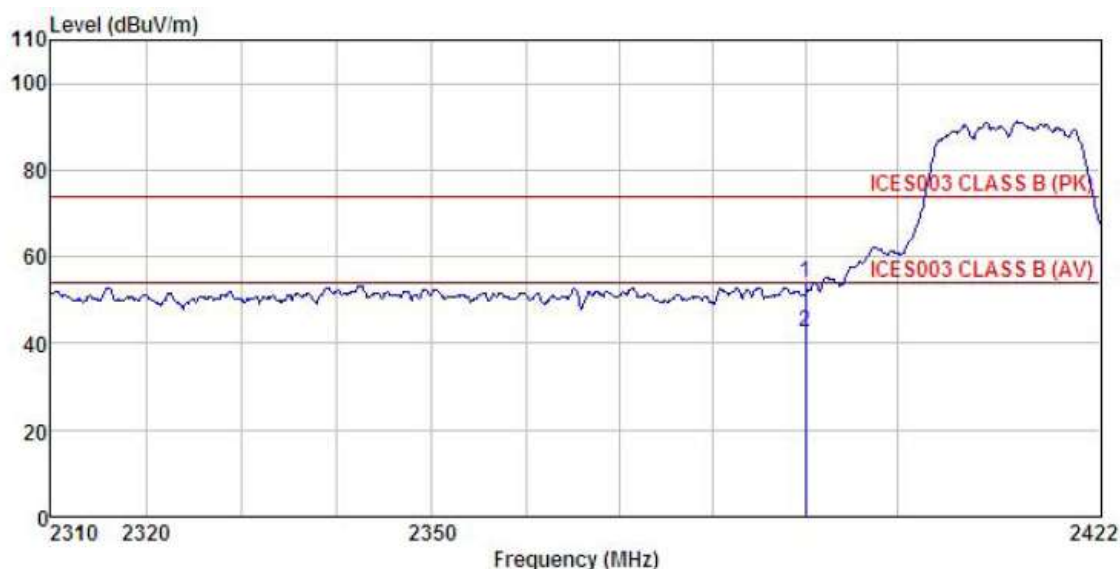


	Freq	ReadAntenna	Cable Preamp	Limit	Over	Remark
	MHz	Level	Loss	Line	Limit	
		Factor	Factor			
		dB/m	dB			
			dB			
		dBuV		dBuV/m	dBuV/m	dB
1	2483.500	22.59	4.81	74.00	54.75	-19.25 Peak
2	2483.500	10.95	4.81	54.00	43.11	-10.89 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

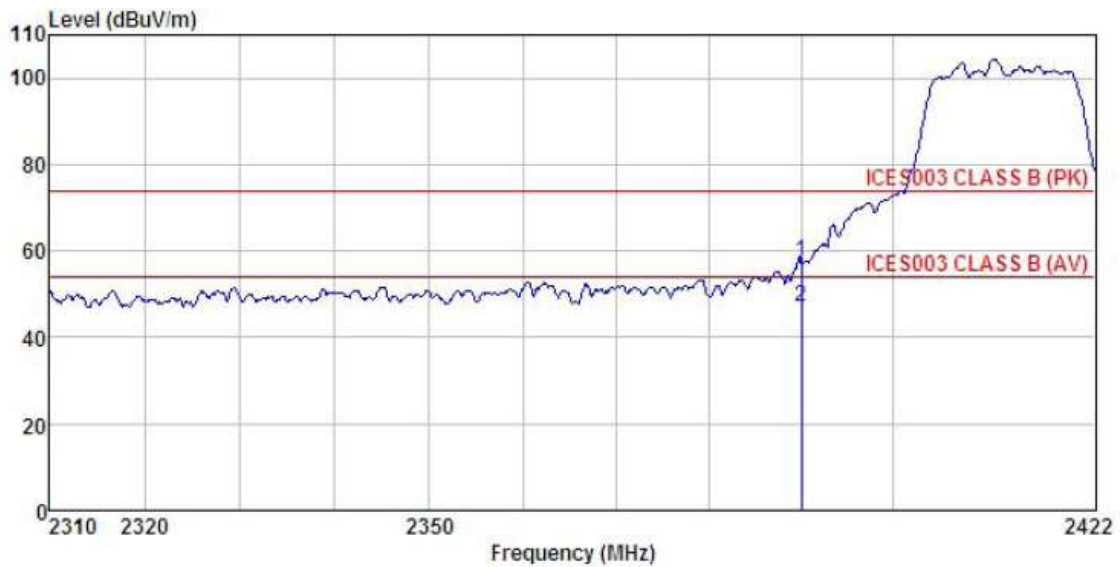


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	22.10	27.07	4.69	0.00	53.86	74.00 -20.14 Peak
2	2390.000	10.82	27.07	4.69	0.00	42.58	54.00 -11.42 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

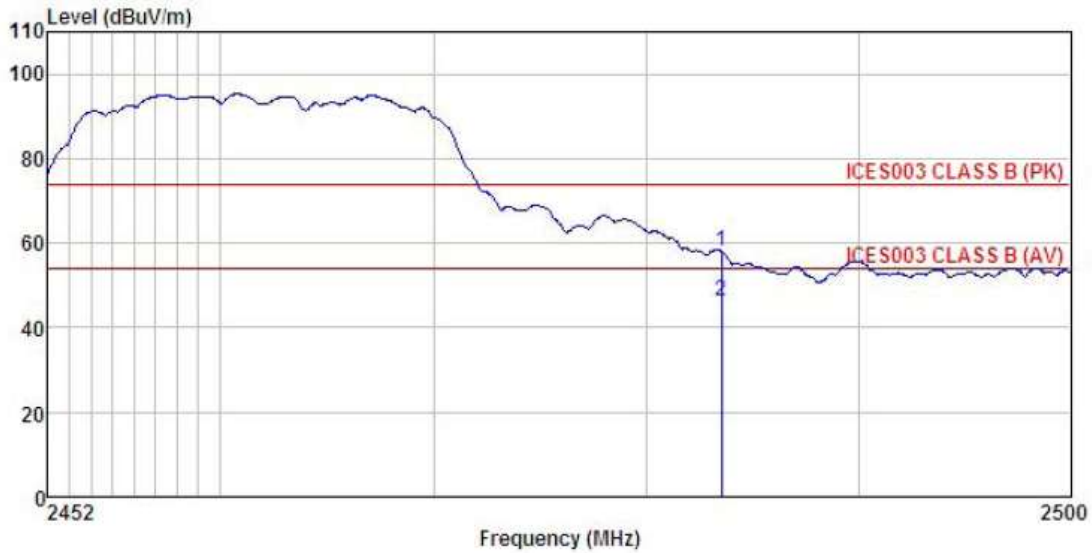


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	26.03	27.08	4.69	0.00	57.80	74.00	-16.20	Peak
2	2390.000	15.21	27.08	4.69	0.00	46.98	54.00	-7.02	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

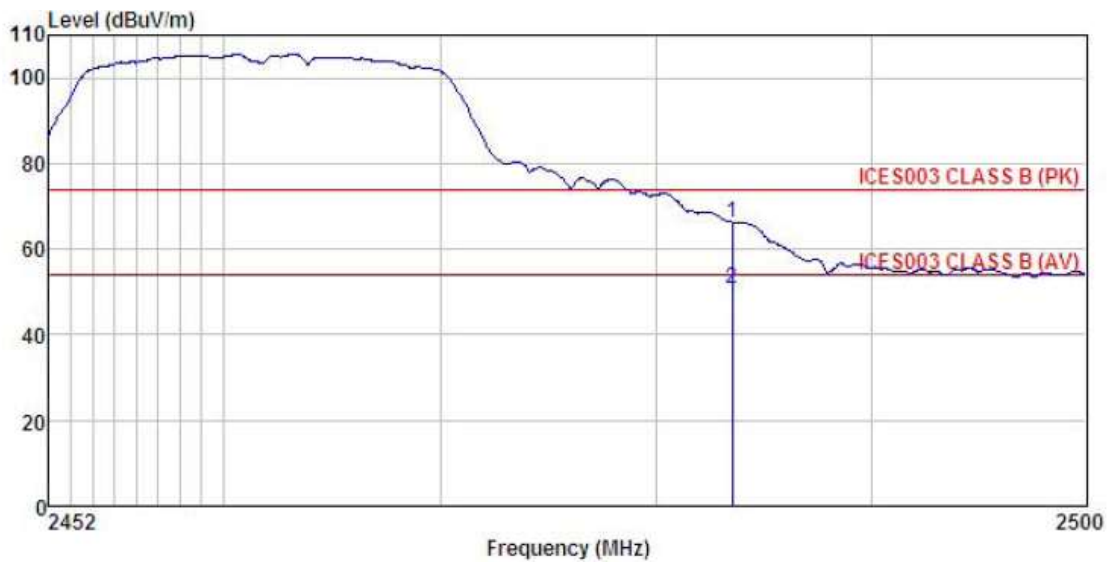


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.89	27.36	4.81	0.00	58.06	74.00	-15.94	Peak
2	2483.500	13.94	27.36	4.81	0.00	46.11	54.00	-7.89	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

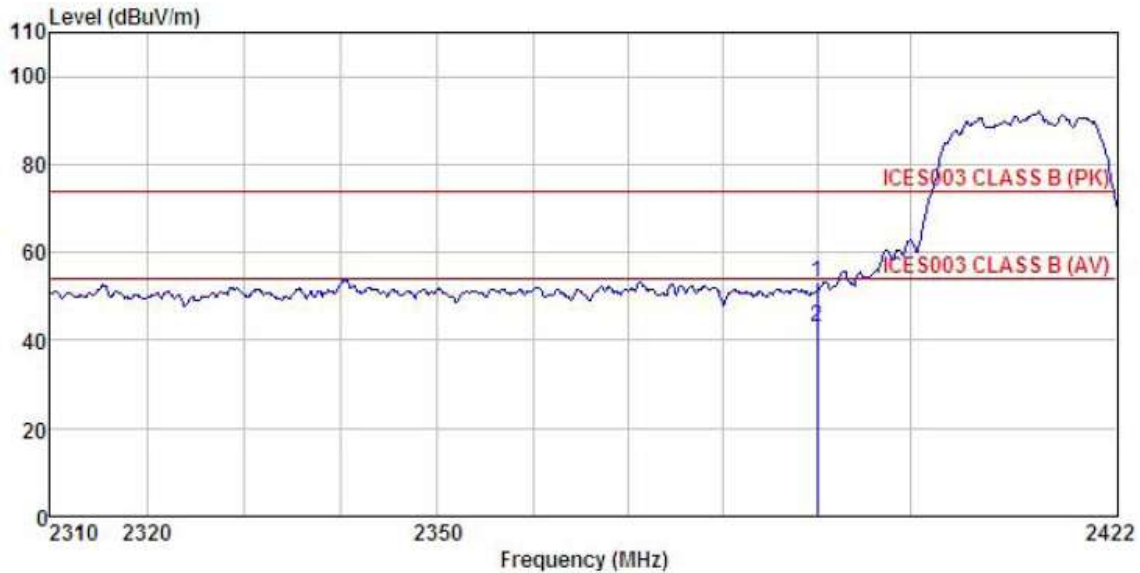


	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	34.20	27.35	4.81	0.00	66.36	74.00	-7.64	Peak
2	2483.500	18.61	27.35	4.81	0.00	50.77	54.00	-3.23	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

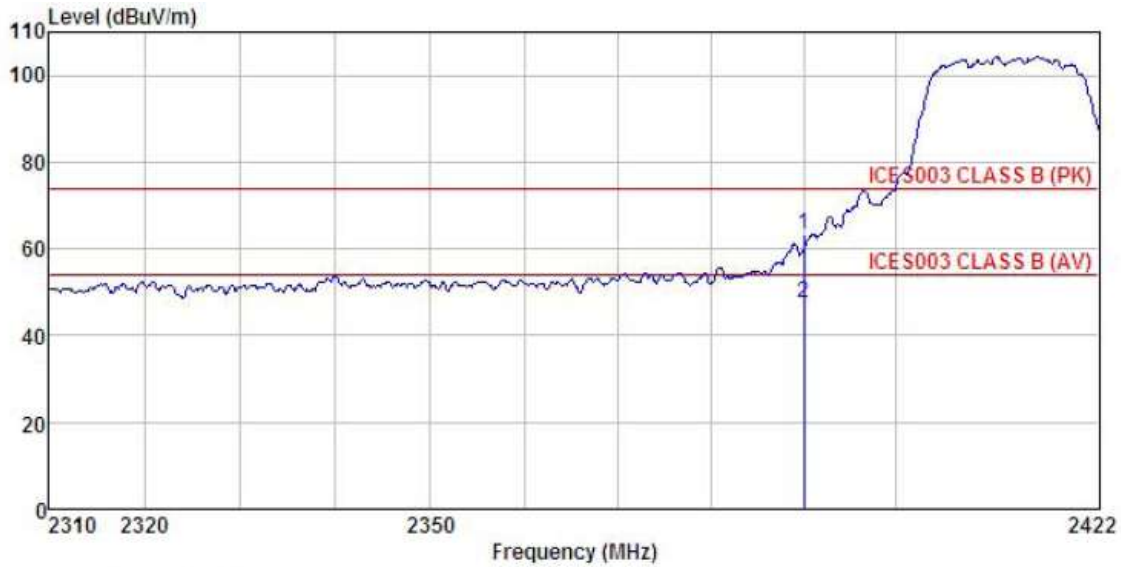


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	21.43	27.07	4.69	0.00	53.19	74.00	-20.81	Peak
2	2390.000	11.17	27.07	4.69	0.00	42.93	54.00	-11.07	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

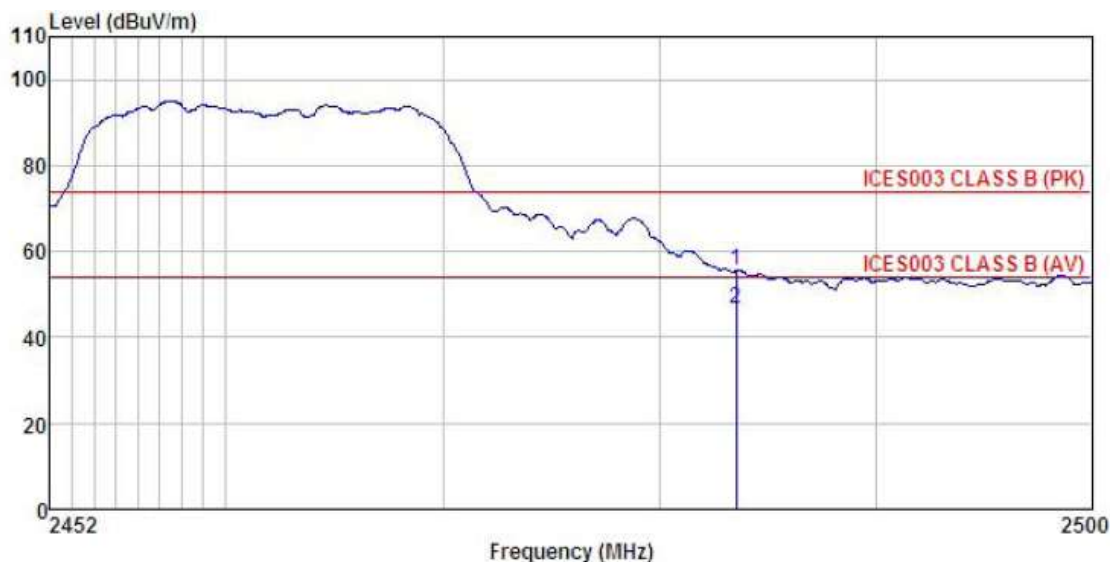


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	31.49	27.08	4.69	0.00	63.26	74.00	-10.74	Peak
2	2390.000	15.86	27.08	4.69	0.00	47.63	54.00	-6.37	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

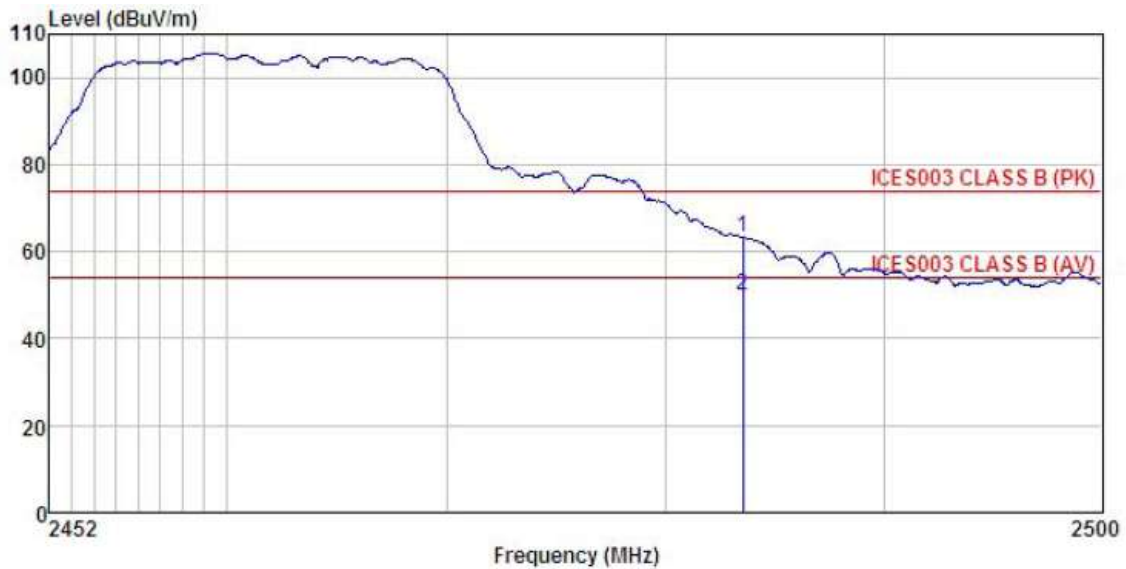


	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level Factor	Loss Factor	Line	Limit	Remark				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	23.35	27.36	4.81	0.00	55.52	74.00	-18.48	Peak
2	2483.500	14.50	27.36	4.81	0.00	46.67	54.00	-7.33	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

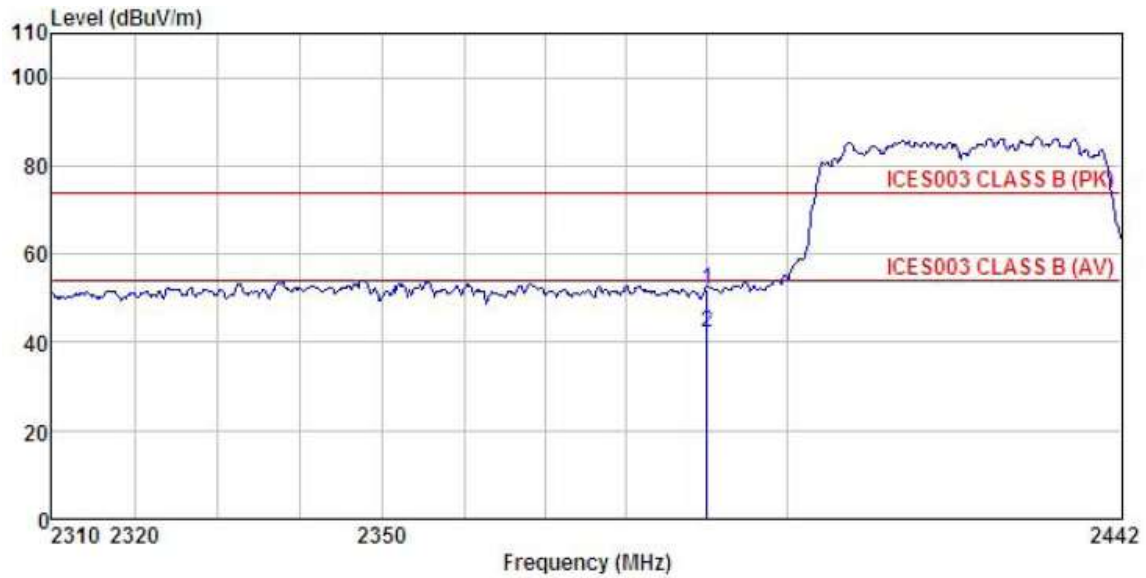


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	31.02	27.35	4.81	0.00	63.18	74.00	-10.82	Peak
2	2483.500	17.87	27.35	4.81	0.00	50.03	54.00	-3.97	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

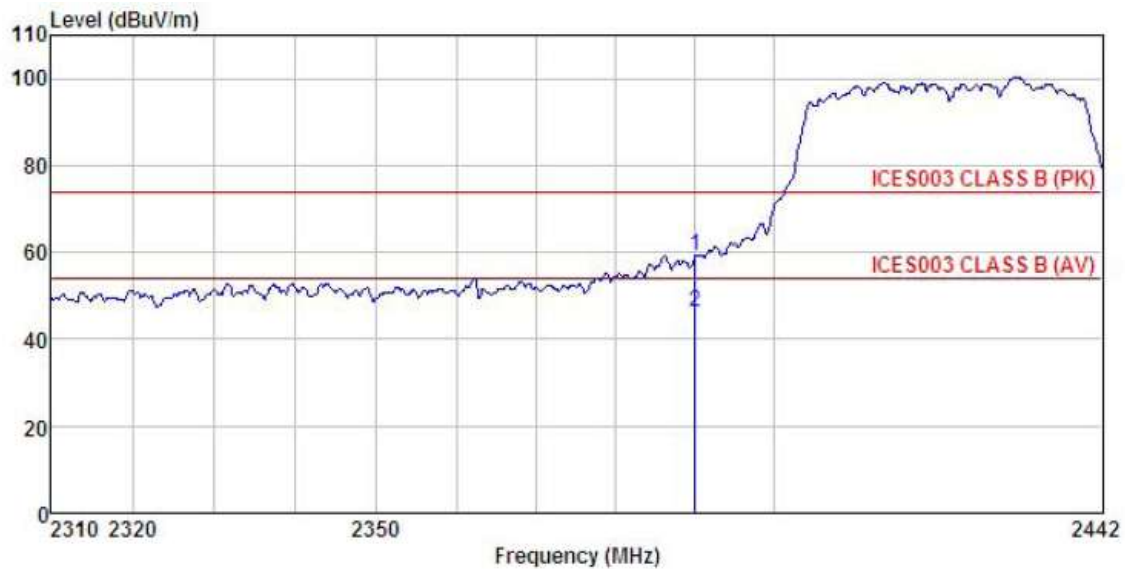


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.26	27.07	4.69	0.00	52.02	74.00	-21.98 Peak
2	2390.000	10.56	27.07	4.69	0.00	42.32	54.00	-11.68 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

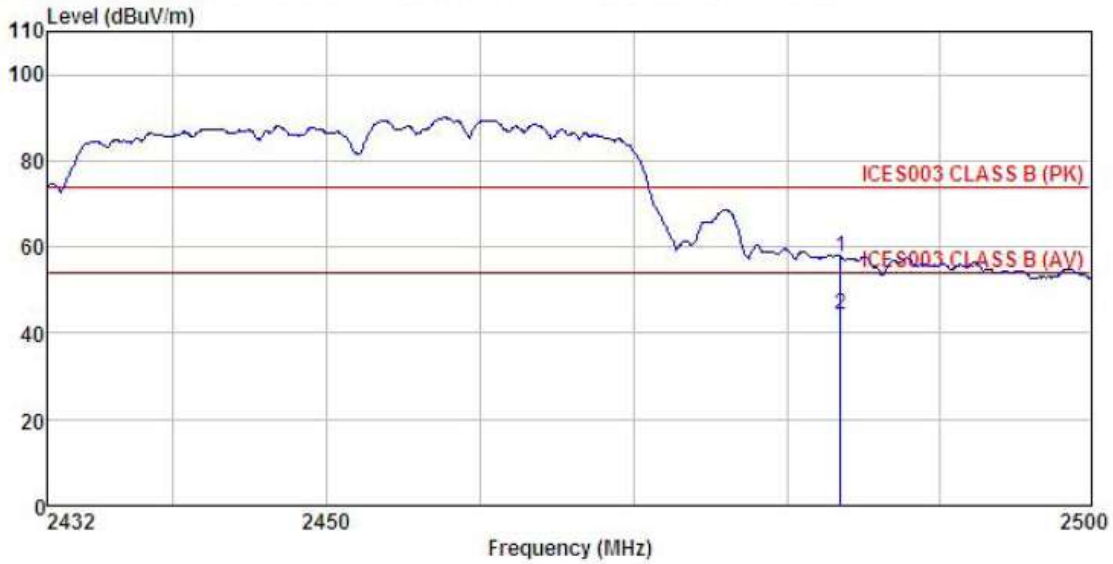


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	27.62	27.08	4.69	0.00	59.39	74.00	-14.61	Peak
2	2390.000	14.63	27.08	4.69	0.00	46.40	54.00	-7.60	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

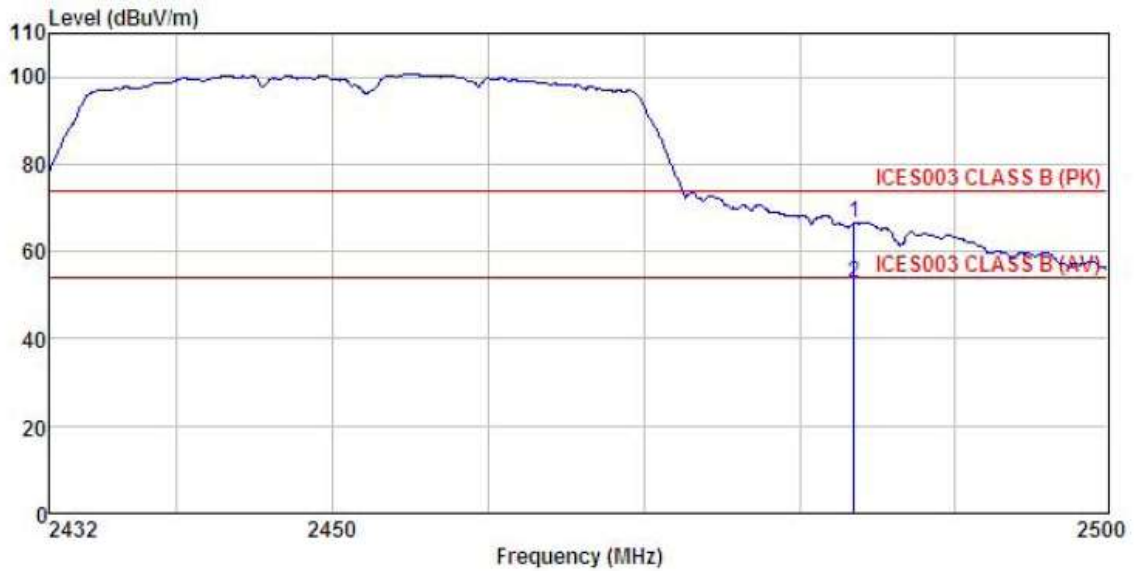


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.61	27.36	4.81	0.00	57.78	74.00	-16.22	Peak
2	2483.500	12.17	27.36	4.81	0.00	44.34	54.00	-9.66	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



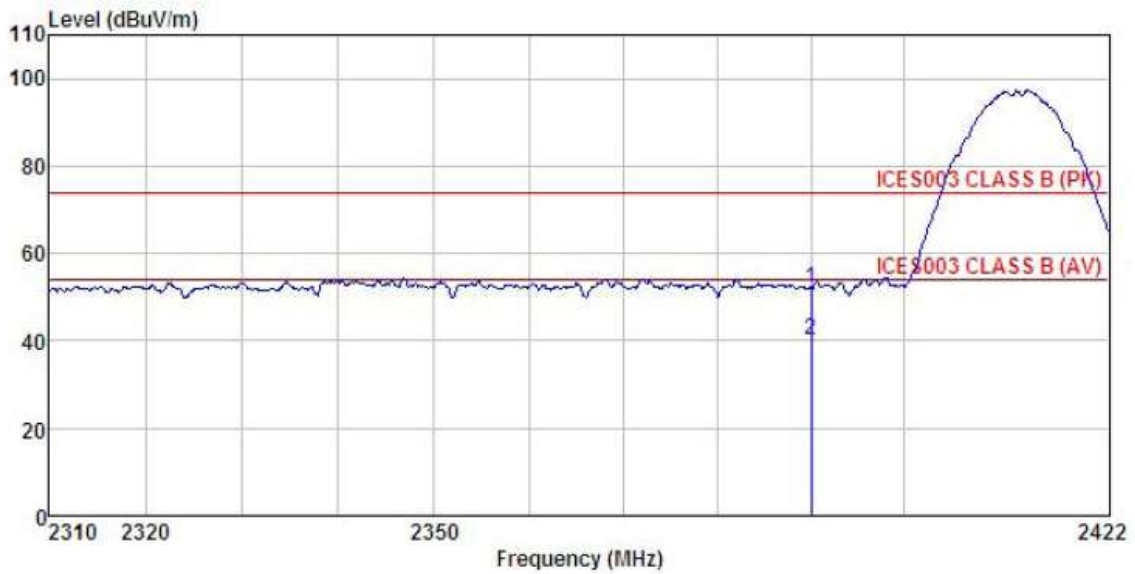
	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	34.21	27.35	4.81	0.00	66.37	74.00	-7.63	Peak
2	2483.500	20.46	27.35	4.81	0.00	52.62	54.00	-1.38	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Ceramic Antenna :

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

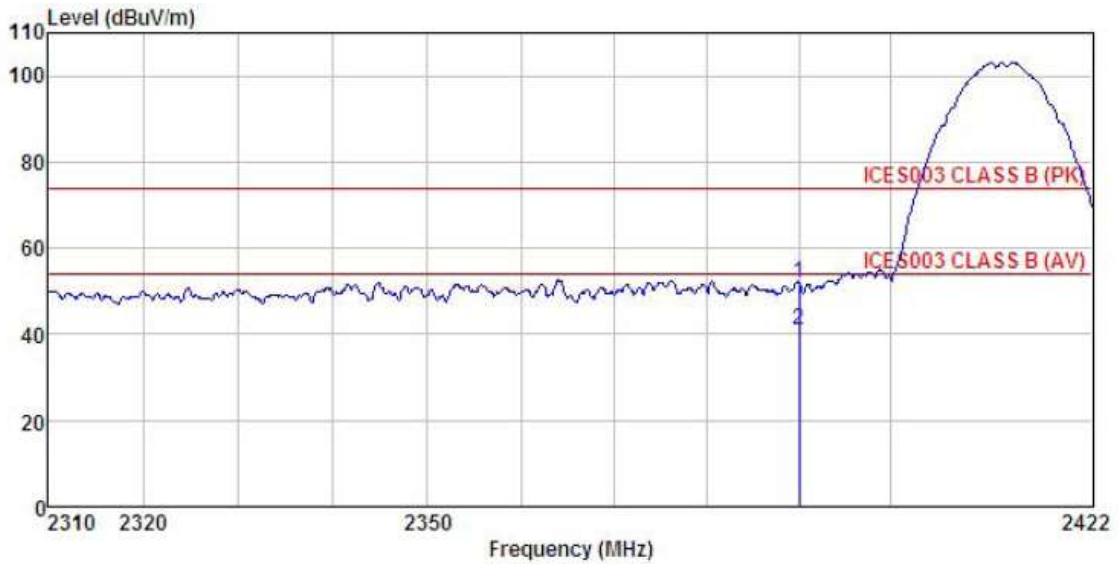


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	20.21	27.08	4.69	0.00	51.98	74.00 -22.02 Peak
2	2390.000	8.23	27.08	4.69	0.00	40.00	54.00 -14.00 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

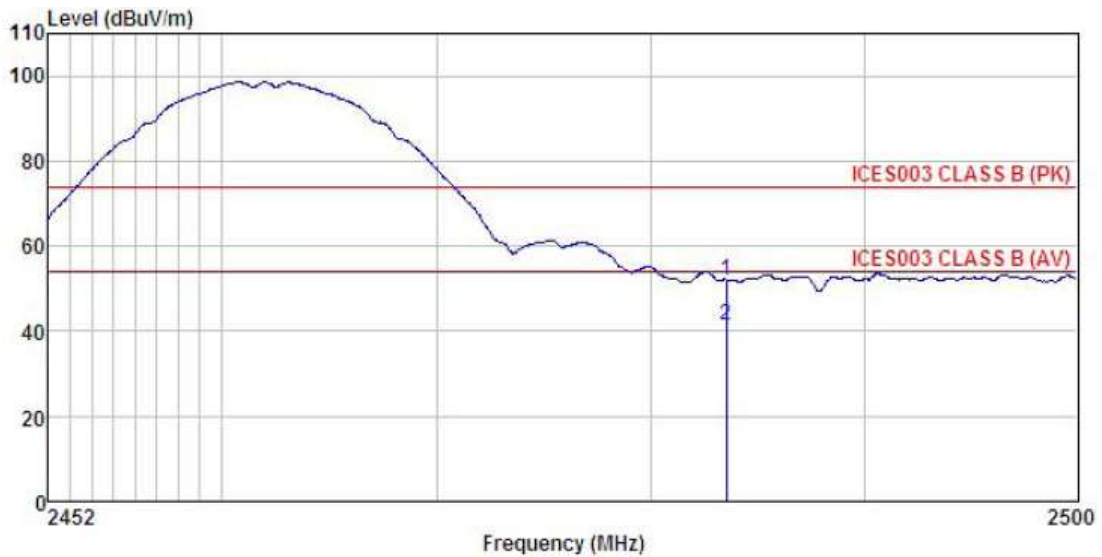


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.02	27.08	4.69	0.00	51.79	74.00	-22.21	Peak
2	2390.000	9.12	27.08	4.69	0.00	40.89	54.00	-13.11	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

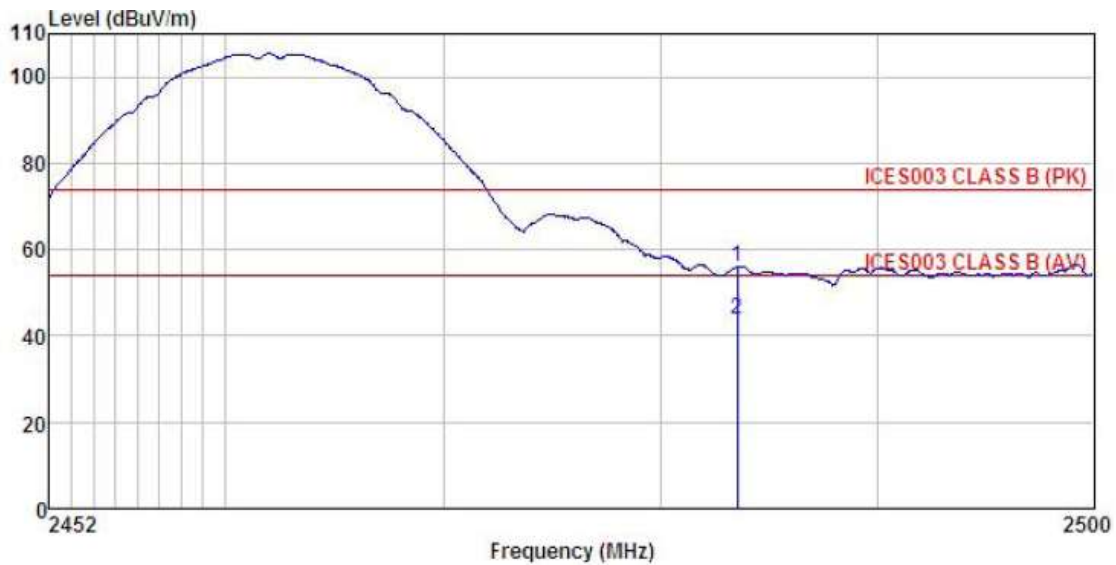


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.93	27.36	4.81	0.00	52.10	74.00	-21.90	Peak
2	2483.500	9.27	27.36	4.81	0.00	41.44	54.00	-12.56	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

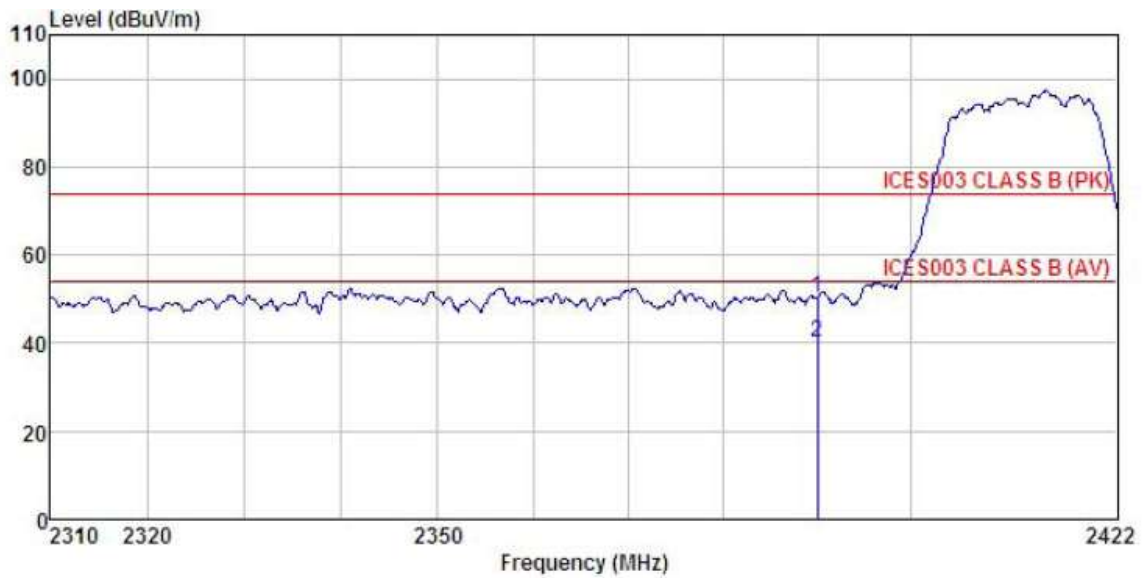


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	23.88	27.35	4.81	0.00	56.04	74.00	-17.96	Peak
2	2483.500	11.85	27.35	4.81	0.00	44.01	54.00	-9.99	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

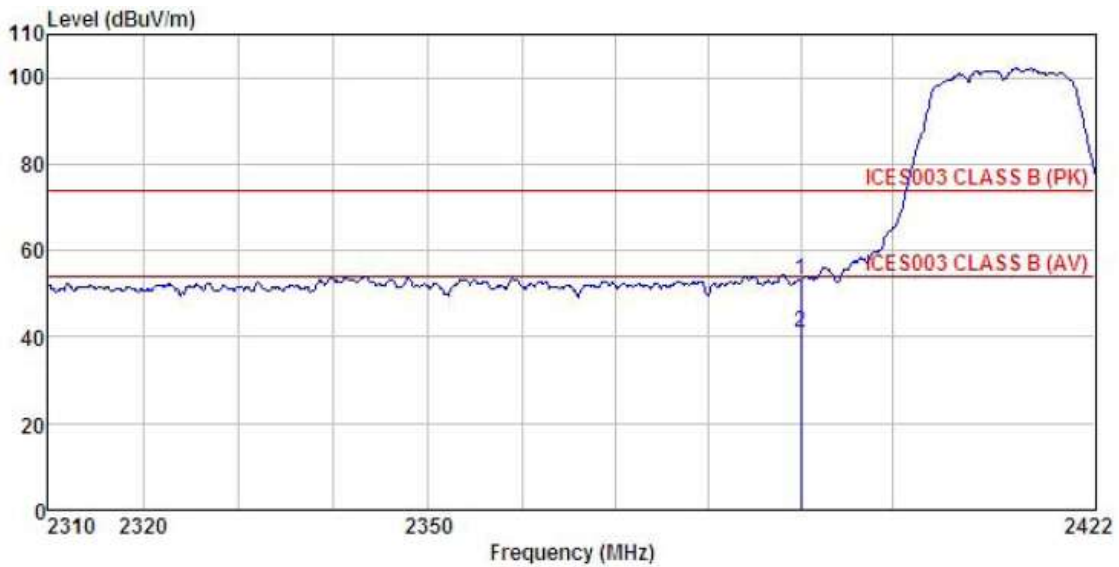


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	18.47	27.07	4.69	0.00	50.23	74.00	-23.77 Peak
2	2390.000	8.52	27.07	4.69	0.00	40.28	54.00	-13.72 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

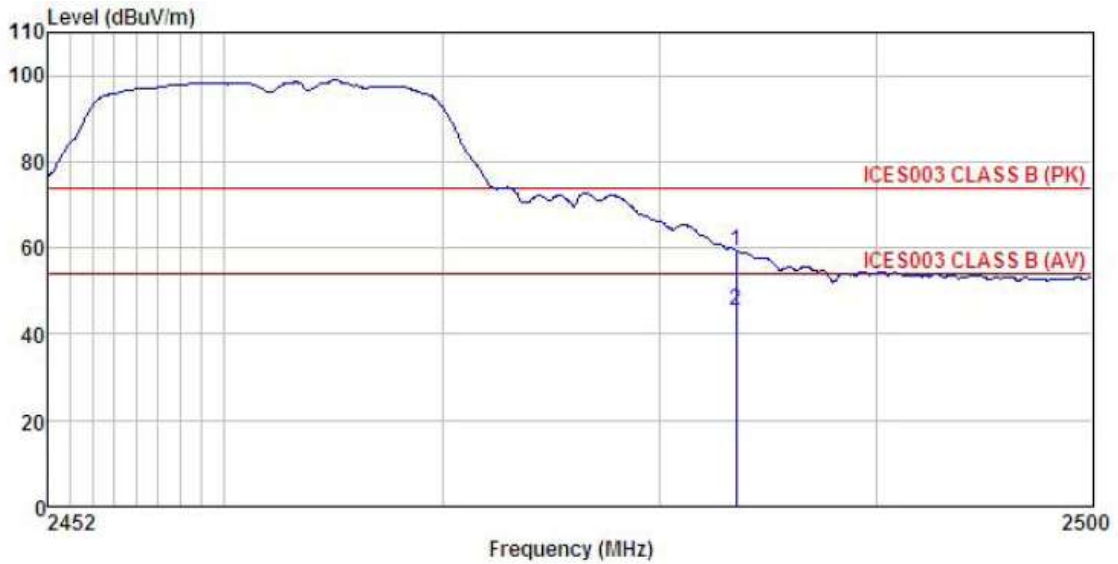


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	21.57	27.08	4.69	0.00	53.34	74.00	-20.66	Peak
2	2390.000	9.32	27.08	4.69	0.00	41.09	54.00	-12.91	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

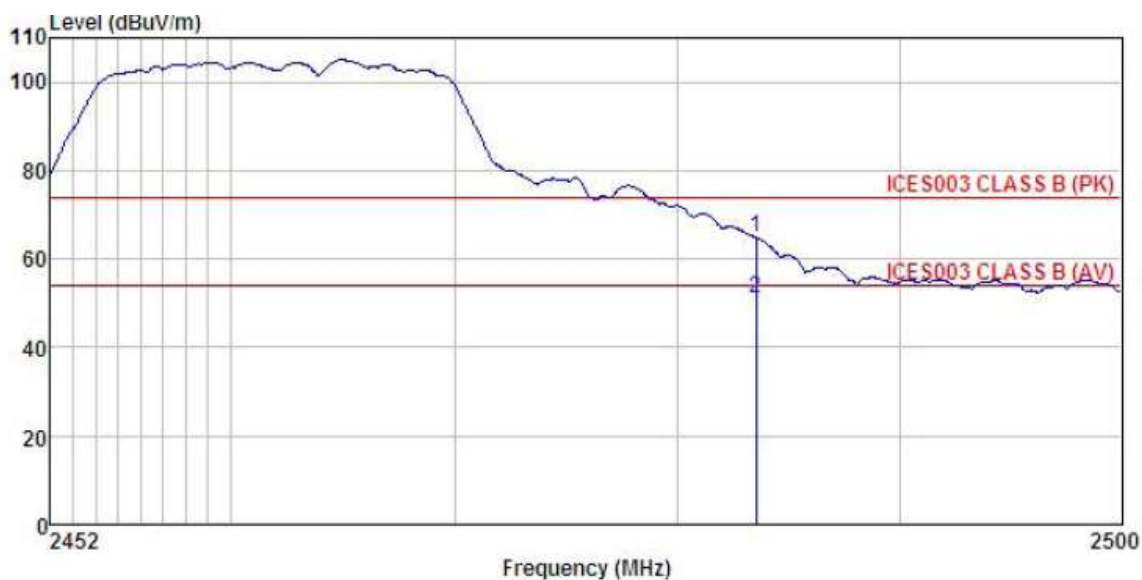


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	27.29	27.36	4.81	0.00	59.46	74.00	-14.54	Peak
2	2483.500	13.35	27.36	4.81	0.00	45.52	54.00	-8.48	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

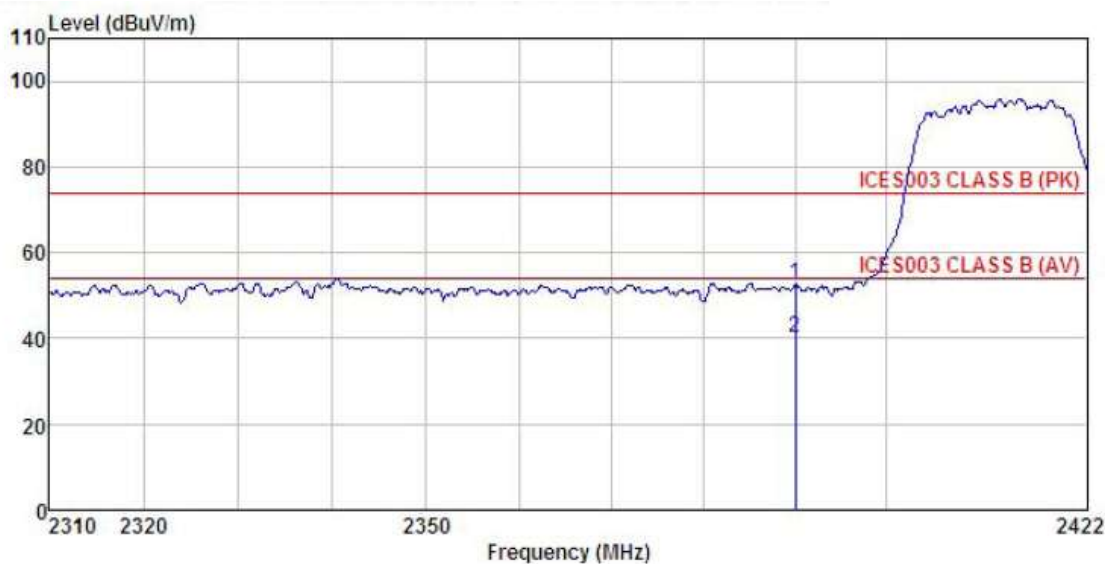


	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	32.58	27.35	4.81	0.00	64.74	74.00	-9.26 Peak
2	2483.500	18.81	27.35	4.81	0.00	50.97	54.00	-3.03 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

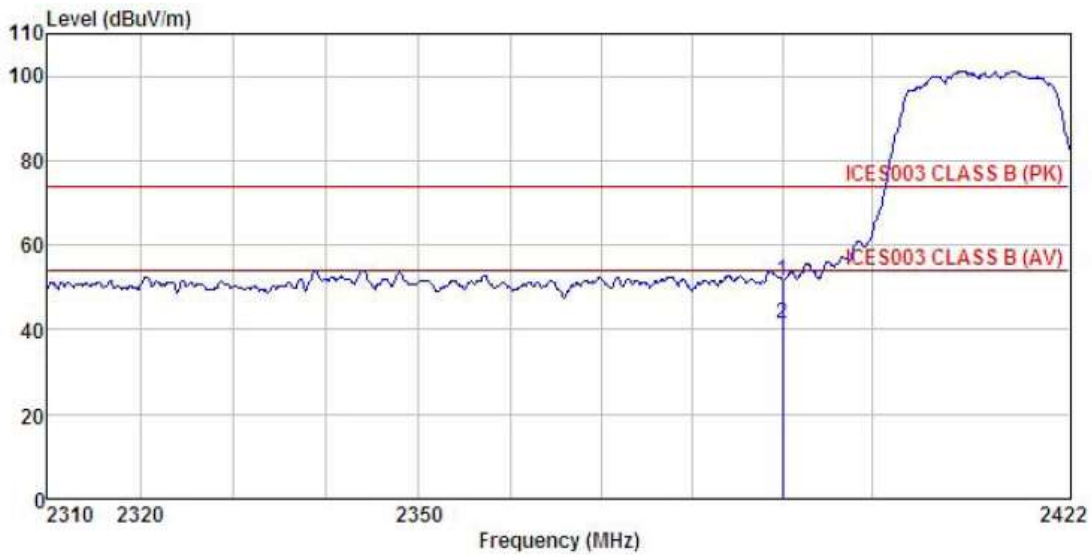


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.87	27.07	4.69	0.00	52.63	74.00	-21.37	Peak
2	2390.000	8.35	27.07	4.69	0.00	40.11	54.00	-13.89	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

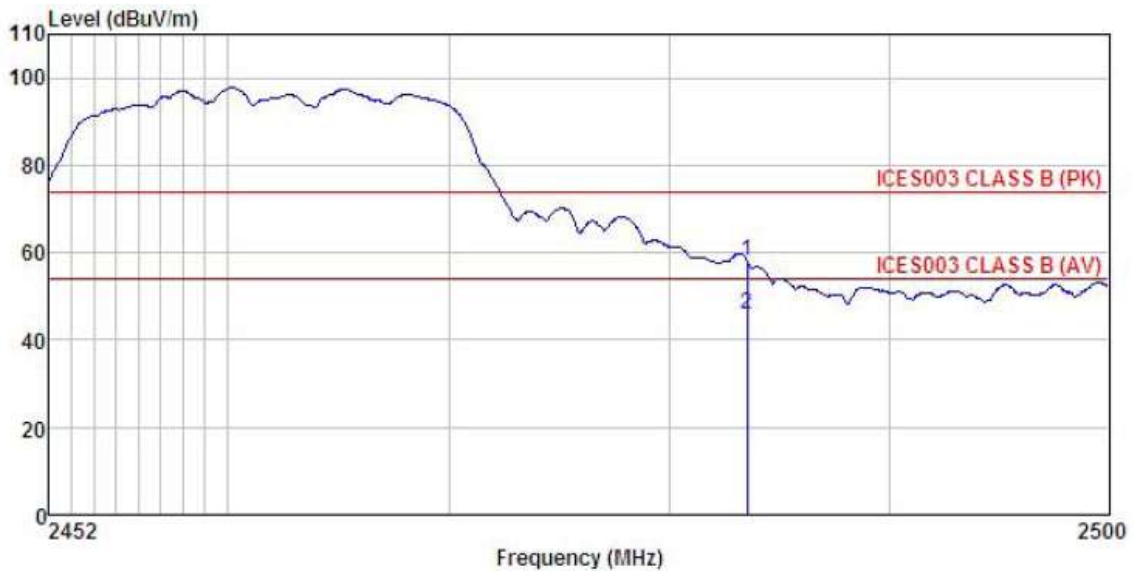


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	19.94	27.08	4.69	0.00	51.71	74.00 -22.29 Peak
2	2390.000	9.45	27.08	4.69	0.00	41.22	54.00 -12.78 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

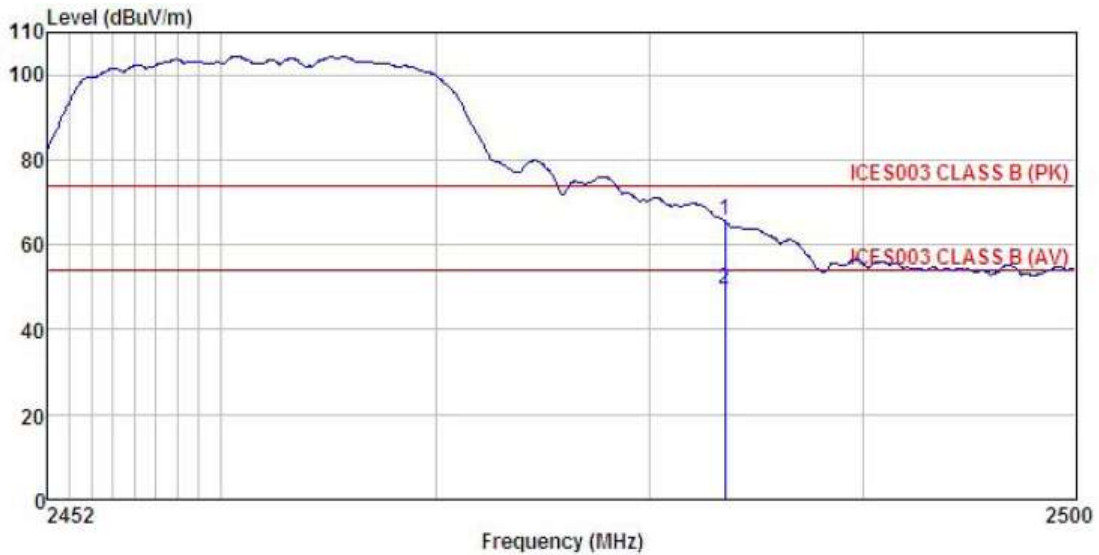


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	25.95	27.36	4.81	0.00	58.12	74.00	-15.88	Peak
2	2483.500	13.61	27.36	4.81	0.00	45.78	54.00	-8.22	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

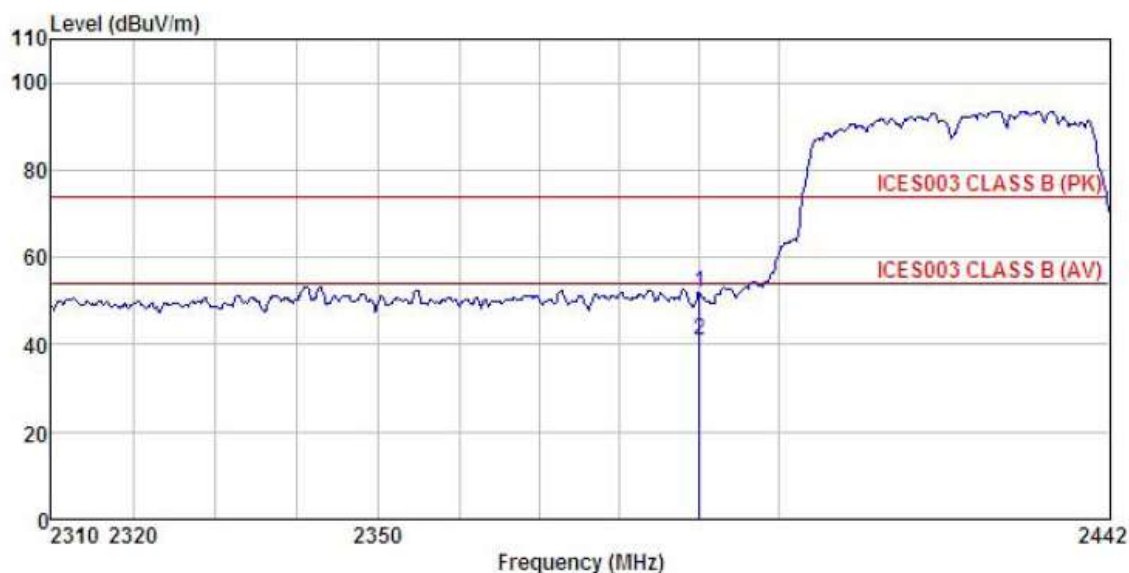


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	33.49	27.35	4.81	0.00	65.65	74.00	-8.35	Peak
2	2483.500	17.23	27.35	4.81	0.00	49.39	54.00	-4.61	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

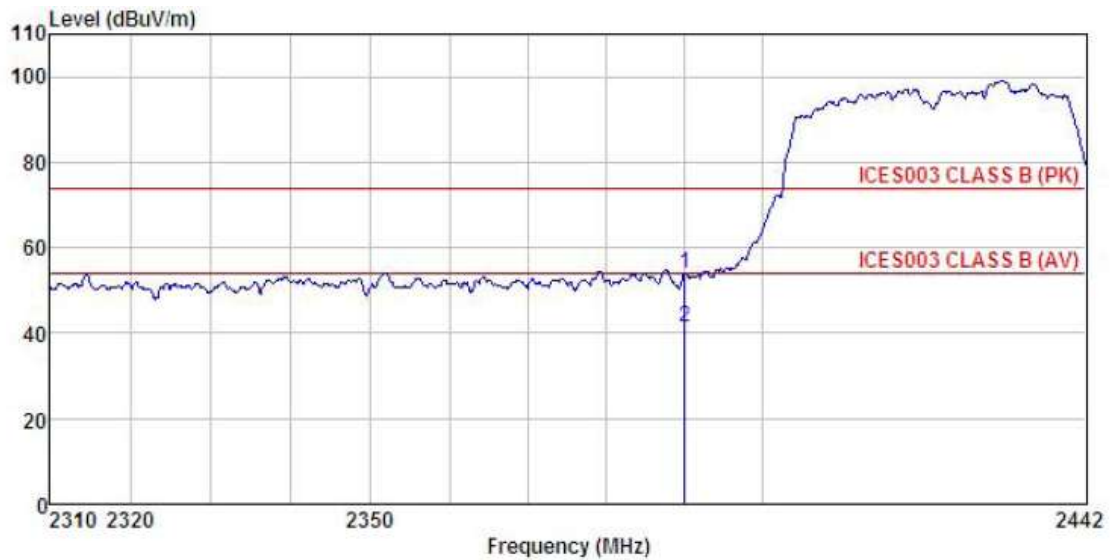


	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.20	27.07	4.69	0.00	51.96	74.00	-22.04 Peak
2	2390.000	9.13	27.07	4.69	0.00	40.89	54.00	-13.11 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

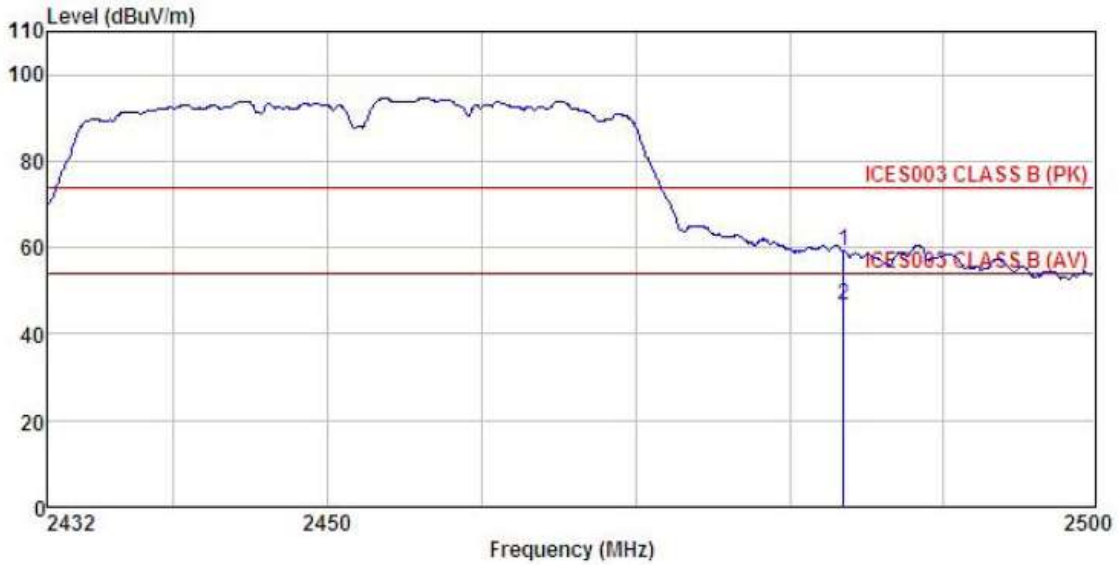


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	22.20	27.08	4.69	0.00	53.97	74.00	-20.03	Peak
2	2390.000	9.52	27.08	4.69	0.00	41.29	54.00	-12.71	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

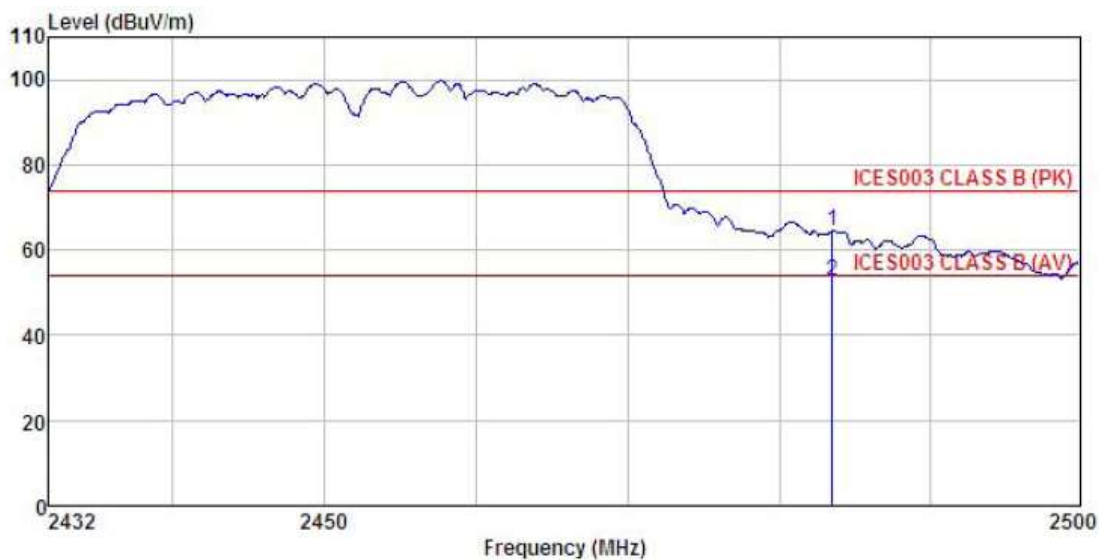


	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	26.98	27.36	4.81	0.00	59.15	74.00	-14.85 Peak
2	2483.500	14.51	27.36	4.81	0.00	46.68	54.00	-7.32 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



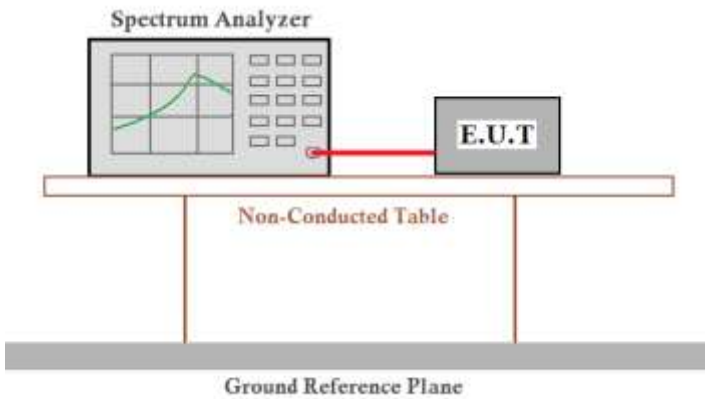
	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	32.38	27.35	4.81	0.00	64.54	74.00	-9.46	Peak
2	2483.500	20.59	27.35	4.81	0.00	52.75	54.00	-1.25	Average

Remark:

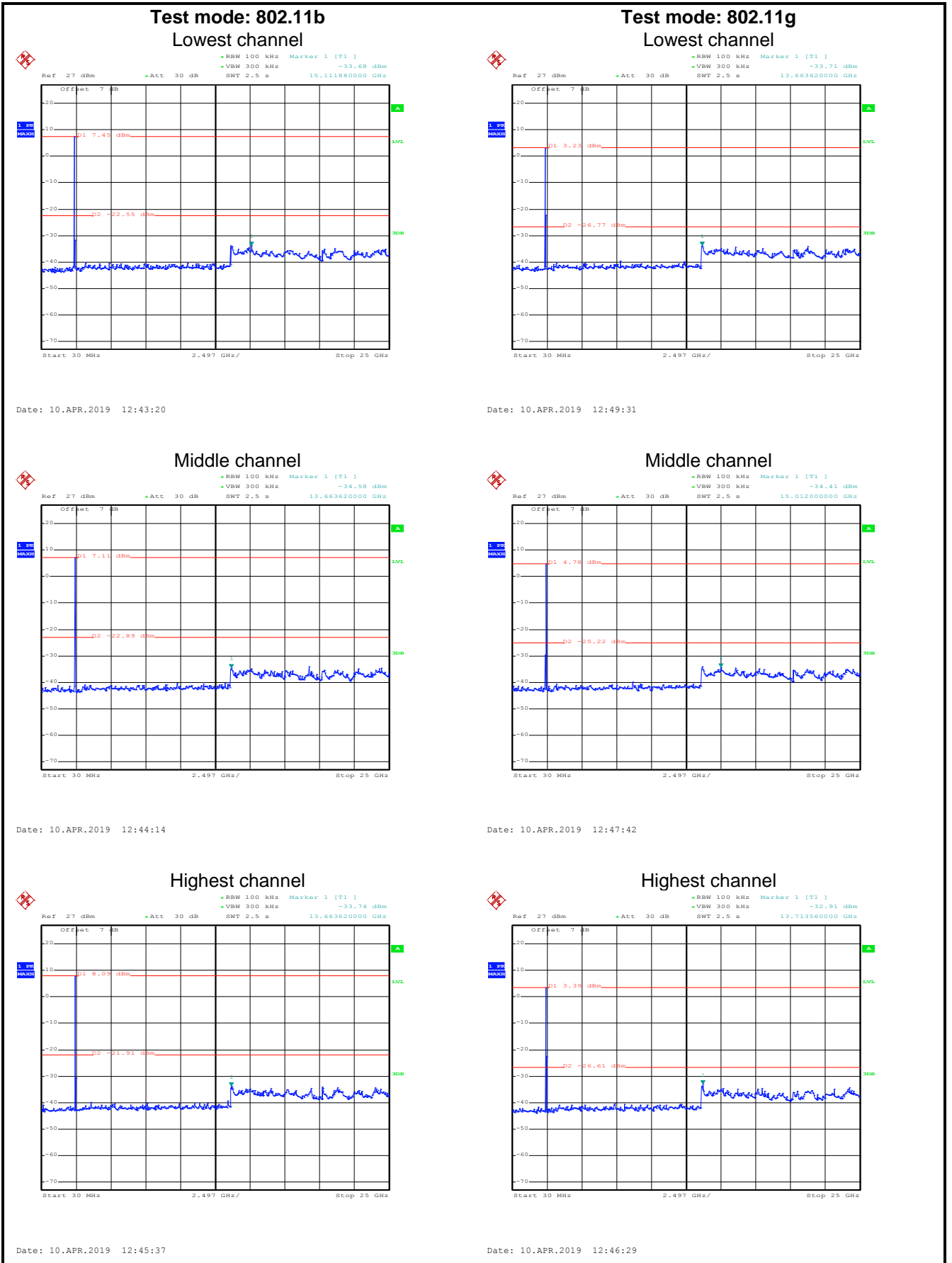
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

6.6 Spurious Emission

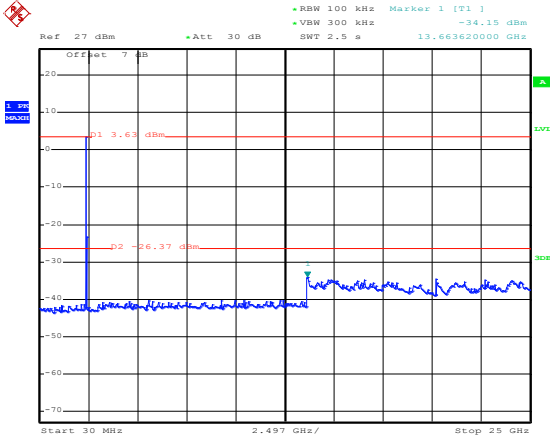
6.6.1 Conducted Emission Method

Test Requirement:	RSS-247 section 5.5
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer and an E.U.T. (Equipment Under Test) are connected by a red cable. Both are placed on a Non-Conducted Table, which is supported by two legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

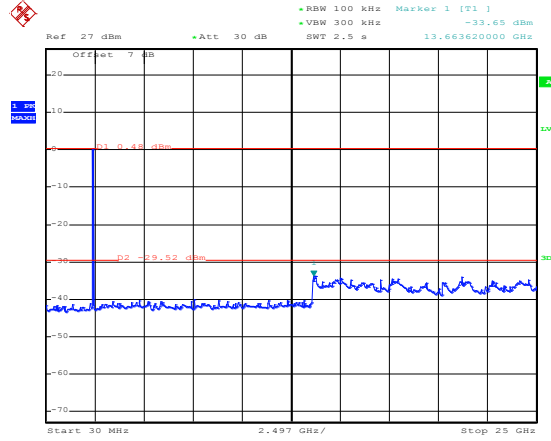


Test mode: 802.11n(H20)
Lowest channel



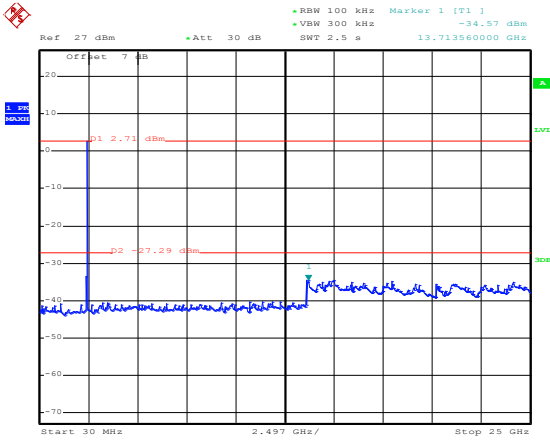
Date: 10.APR.2019 12:50:56

Test mode: 802.11n(H40)
Lowest channel



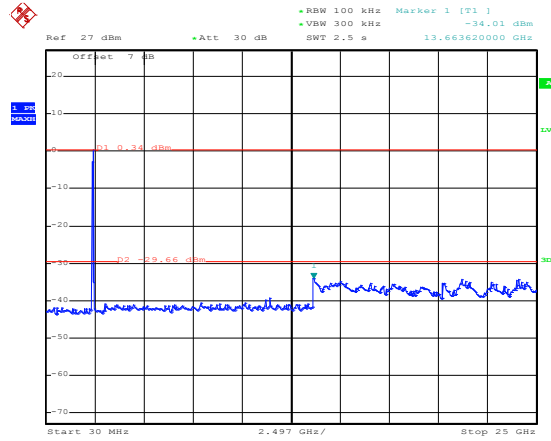
Date: 10.APR.2019 12:42:06

Middle channel



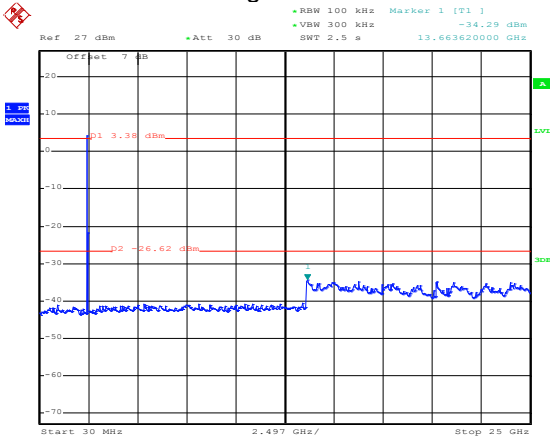
Date: 10.APR.2019 12:52:08

Middle channel



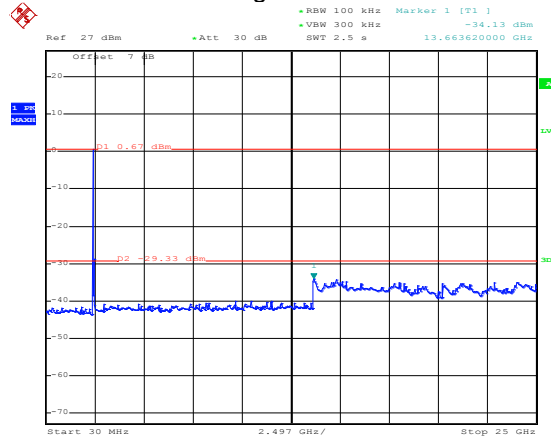
Date: 10.APR.2019 12:39:03

Highest channel



Date: 10.APR.2019 12:53:13

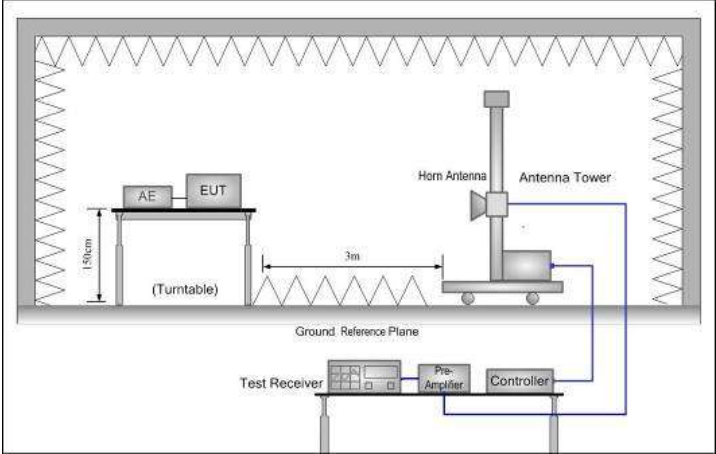
Highest channel



Date: 10.APR.2019 12:40:16

6.6.2 Radiated Emission Method

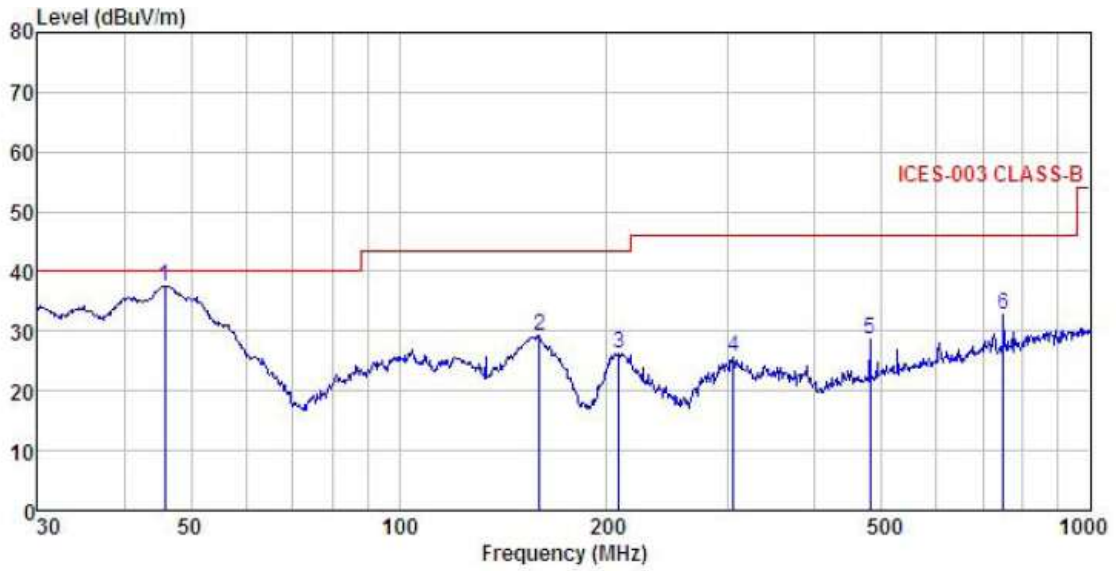
Test Requirement:	RSS-Gen section 6.13				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
74.0		Peak Value			
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				
Test setup:	<p>Below 1GHz</p> <p>The diagram illustrates the test setup for frequencies below 1GHz. It shows an EUT (Equipment Under Test) placed on a rotating table at a height of 0.8m above the ground plane. The EUT is positioned 3m away from an antenna tower. The antenna tower has a search antenna at a height of 1m to 4m. An RF test receiver is connected to the search antenna.</p>				

	<p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 5.8 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>
<p>Remark:</p>	<ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):

Below 1GHz:

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

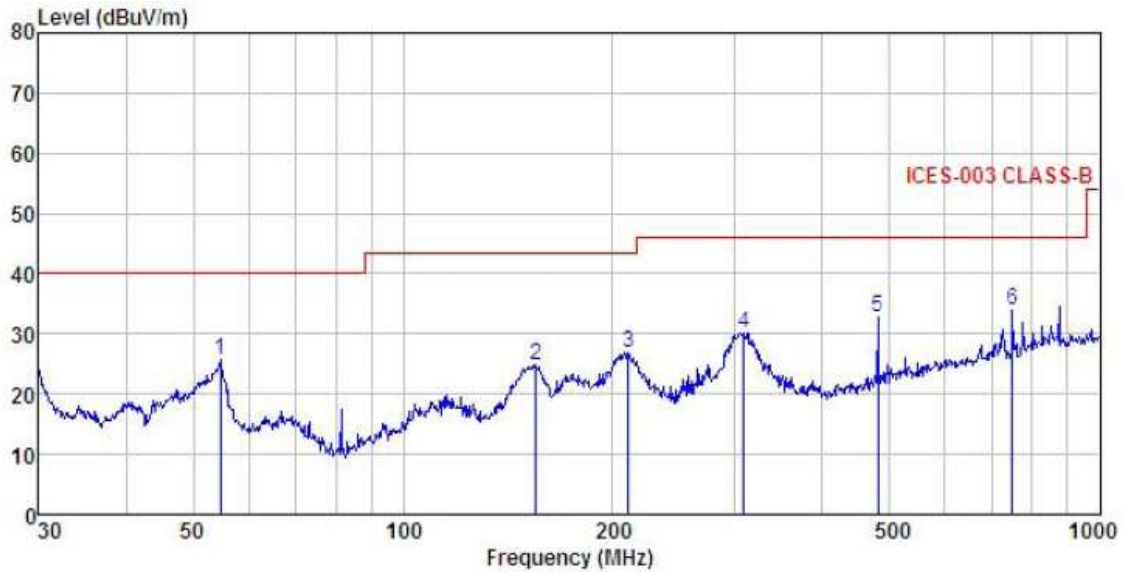


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.855	53.83	12.27	1.29	29.85	37.54	40.00	-2.46	QP
2	159.784	46.56	9.27	2.59	29.13	29.29	43.50	-14.21	QP
3	207.850	41.20	10.96	2.86	28.78	26.24	43.50	-17.26	QP
4	304.610	37.61	13.71	2.95	28.46	25.81	46.00	-20.19	QP
5	480.528	36.67	17.52	3.46	28.92	28.73	46.00	-17.27	QP
6	750.108	36.25	20.60	4.36	28.48	32.73	46.00	-13.27	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

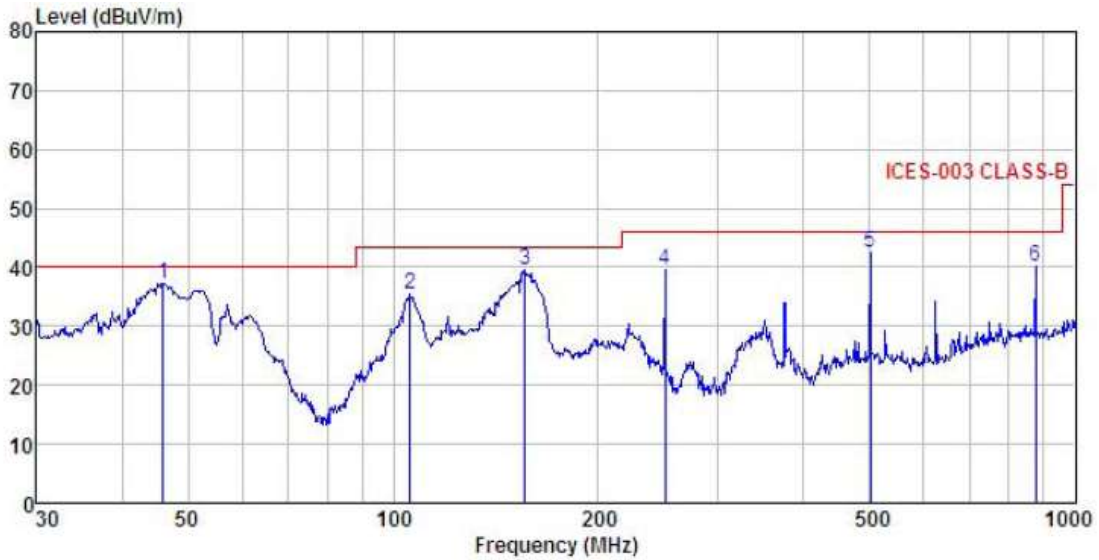


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	54.643	42.42	11.62	1.34	29.80	25.58	40.00 -14.42 QP
2	155.364	42.42	9.12	2.55	29.17	24.92	43.50 -18.58 QP
3	210.786	41.64	11.08	2.86	28.76	26.82	43.50 -16.68 QP
4	308.913	41.87	13.79	2.97	28.47	30.16	46.00 -15.84 QP
5	480.528	40.76	17.52	3.46	28.92	32.82	46.00 -13.18 QP
6	750.108	37.46	20.60	4.36	28.48	33.94	46.00 -12.06 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN C
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

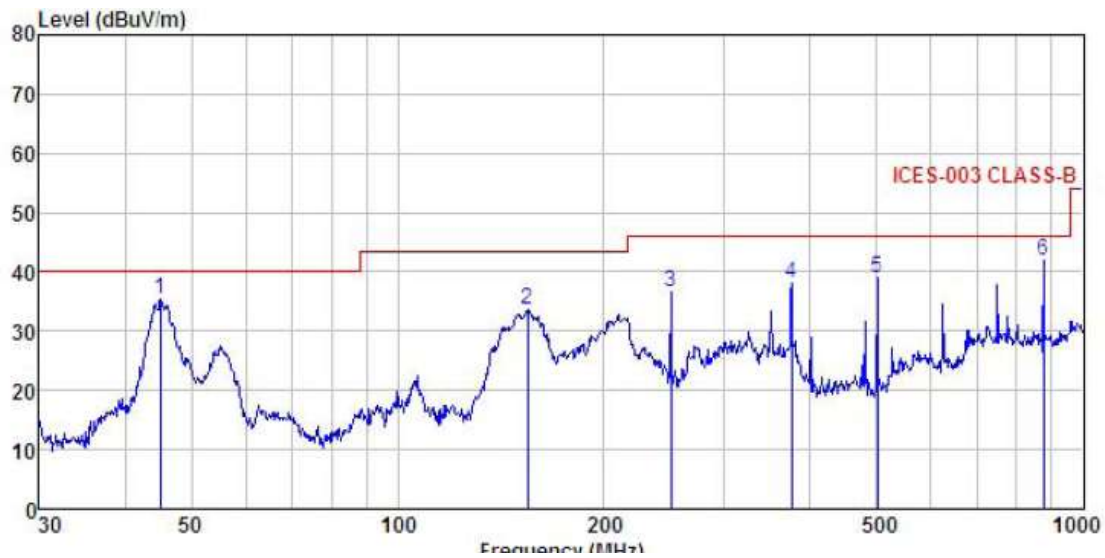


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.016	53.62	12.26	1.28	29.85	37.31	40.00	-2.69	QP
2	106.013	50.95	11.98	2.01	29.48	35.46	43.50	-8.04	QP
3	155.910	56.98	9.12	2.56	29.17	39.49	43.50	-4.01	QP
4	250.301	52.50	12.70	2.81	28.54	39.47	46.00	-6.53	QP
5	501.179	49.66	18.20	3.63	28.96	42.53	46.00	-3.47	QP
6	875.247	41.57	22.55	3.95	27.94	40.13	46.00	-5.87	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	BLUE BEAN C
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

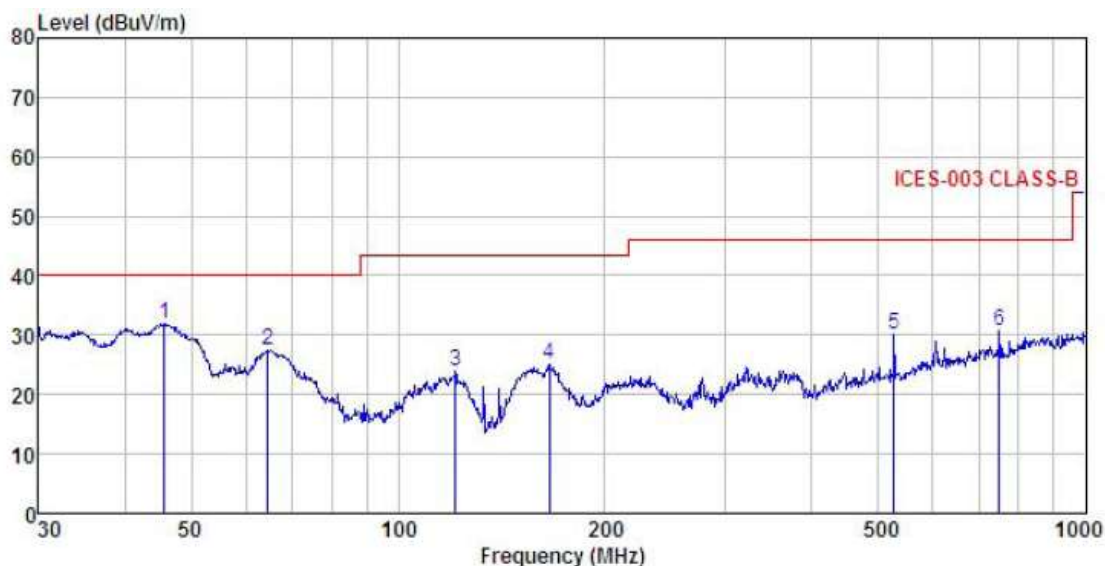


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	45.058	51.59	12.30	1.29	29.86	35.32	40.00	-4.68	QP
2	154.821	51.11	9.10	2.55	29.18	33.58	43.50	-9.92	QP
3	250.301	49.70	12.70	2.81	28.54	36.67	46.00	-9.33	QP
4	375.939	48.60	14.97	3.09	28.68	37.98	46.00	-8.02	QP
5	501.179	46.08	18.20	3.63	28.96	38.95	46.00	-7.05	QP
6	875.247	43.35	22.55	3.95	27.94	41.91	46.00	-4.09	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	RED BEAN A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

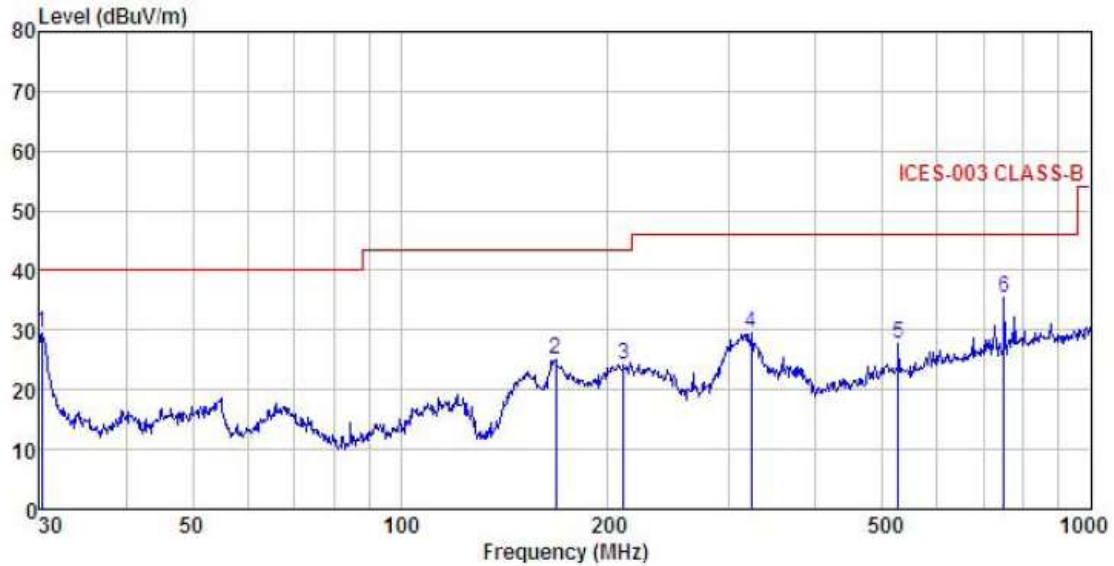


	ReadAntenna	Cable Preamp	Limit	Over					
Freq	Level	Loss	Line	Limit	Remark				
MHz	dBuV	dB/m	dB	dB					
1	45.695	48.11	12.28	1.29	29.85	31.83	40.00	-8.17	QP
2	64.659	46.07	9.69	1.38	29.76	27.38	40.00	-12.62	QP
3	121.123	40.16	10.81	2.18	29.38	23.77	43.50	-19.73	QP
4	166.068	42.20	9.49	2.63	29.08	25.24	43.50	-18.26	QP
5	526.397	37.11	18.30	3.76	29.03	30.14	46.00	-15.86	QP
6	750.108	34.09	20.60	4.36	28.48	30.57	46.00	-15.43	QP

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	RED BEAN A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

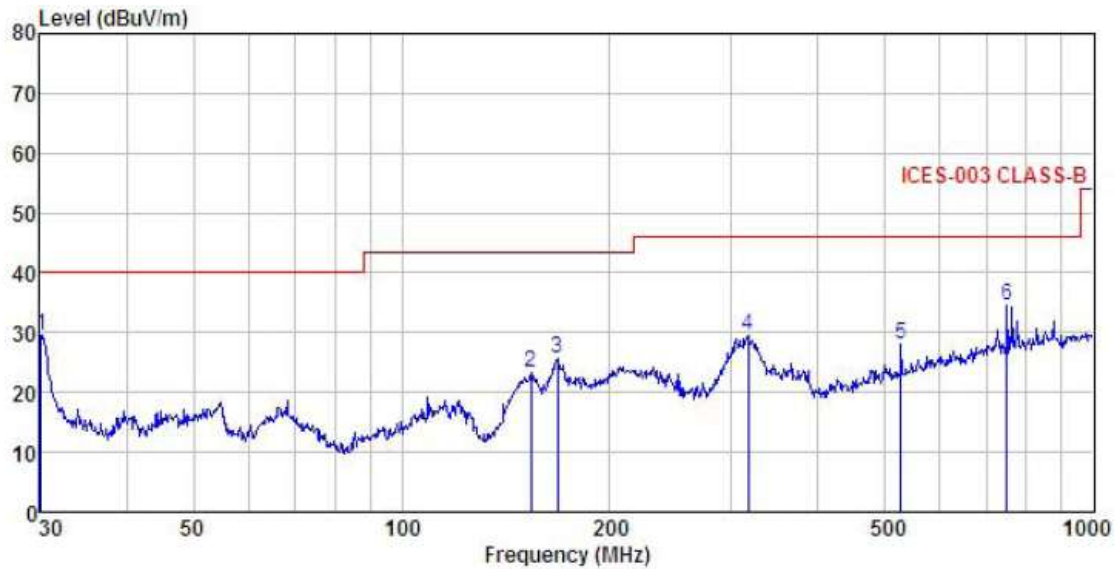


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.211	48.23	10.63	0.72	29.98	29.60	40.00	-10.40	QP
2	167.824	41.88	9.57	2.64	29.07	25.02	43.50	-18.48	QP
3	210.786	38.92	11.08	2.86	28.76	24.10	43.50	-19.40	QP
4	322.189	40.94	14.06	3.01	28.50	29.51	46.00	-16.49	QP
5	526.397	34.83	18.30	3.76	29.03	27.86	46.00	-18.14	QP
6	750.108	38.84	20.60	4.36	28.48	35.32	46.00	-10.68	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	RED BEAN C
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

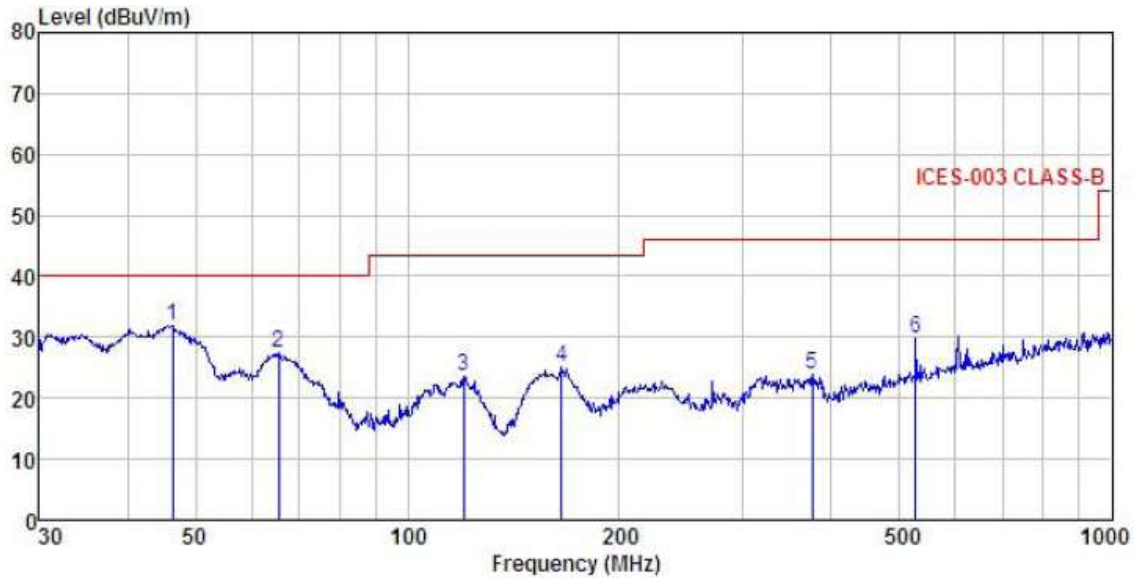


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	30.105	48.23	10.62	0.72	29.98	29.59	40.00 -10.41 QP
2	153.739	40.97	9.05	2.54	29.19	23.37	43.50 -20.13 QP
3	167.824	42.41	9.57	2.64	29.07	25.55	43.50 -17.95 QP
4	316.589	41.12	13.95	2.99	28.49	29.57	46.00 -16.43 QP
5	526.397	34.98	18.30	3.76	29.03	28.01	46.00 -17.99 QP
6	750.108	38.18	20.60	4.36	28.48	34.66	46.00 -11.34 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	Broadband Digital Transmission System	Product Model:	RED BEAN C
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.340	48.24	12.24	1.28	29.85	31.91	40.00	-8.09	QP
2	65.573	46.28	9.48	1.41	29.75	27.42	40.00	-12.58	QP
3	120.277	39.93	10.85	2.17	29.39	23.56	43.50	-19.94	QP
4	165.487	41.95	9.49	2.62	29.09	24.97	43.50	-18.53	QP
5	375.939	34.65	14.97	3.09	28.68	24.03	46.00	-21.97	QP
6	526.397	36.83	18.30	3.76	29.03	29.86	46.00	-16.14	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

External antenna A :

Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	53.77	30.94	6.81	41.82	49.70	74.00	-24.30	Vertical
4824.00	54.09	30.94	6.81	41.82	50.02	74.00	-23.98	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.83	30.94	6.81	41.82	37.76	54.00	-16.24	Vertical
4824.00	40.09	30.94	6.81	41.82	36.02	54.00	-17.98	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.86	31.20	6.85	41.84	50.07	74.00	-23.93	Vertical
4874.00	54.24	31.20	6.85	41.84	50.45	74.00	-23.55	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	41.67	31.20	6.85	41.84	37.88	54.00	-16.12	Vertical
4874.00	40.96	31.20	6.85	41.84	37.17	54.00	-16.83	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	53.98	31.46	6.89	41.86	50.47	74.00	-23.53	Vertical
4924.00	54.87	31.46	6.89	41.86	51.36	74.00	-22.64	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	41.86	31.46	6.89	41.86	38.35	54.00	-15.65	Vertical
4924.00	41.06	31.46	6.89	41.86	37.55	54.00	-16.45	Horizontal
<i>Remark:</i>								
1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i>								
2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	52.46	30.94	6.81	41.82	48.39	74.00	-25.61	Vertical
4824.00	53.84	30.94	6.81	41.82	49.77	74.00	-24.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.89	30.94	6.81	41.82	35.82	54.00	-18.18	Vertical
4824.00	39.47	30.94	6.81	41.82	35.40	54.00	-18.60	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.21	31.20	6.85	41.84	49.42	74.00	-24.58	Vertical
4874.00	53.98	31.20	6.85	41.84	50.19	74.00	-23.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.24	31.20	6.85	41.84	35.45	54.00	-18.55	Vertical
4874.00	39.26	31.20	6.85	41.84	35.47	54.00	-18.53	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	52.79	31.46	6.89	41.86	49.28	74.00	-24.72	Vertical
4924.00	53.34	31.46	6.89	41.86	49.83	74.00	-24.17	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.48	31.46	6.89	41.86	35.97	54.00	-18.03	Vertical
4924.00	39.22	31.46	6.89	41.86	35.71	54.00	-18.29	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	52.98	36.06	6.81	41.82	54.03	74.00	-19.97	Vertical
4824.00	53.47	36.06	6.81	41.82	54.52	74.00	-19.48	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.24	36.06	6.81	41.82	40.29	54.00	-13.71	Vertical
4824.00	40.06	36.06	6.81	41.82	41.11	54.00	-12.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.24	36.06	6.81	41.82	40.29	54.00	-13.71	Vertical
4824.00	40.06	36.06	6.81	41.82	41.11	54.00	-12.89	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.16	36.32	6.85	41.84	40.49	54.00	-13.51	Vertical
4874.00	39.81	36.32	6.85	41.84	41.14	54.00	-12.86	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	52.47	36.58	6.89	41.86	54.08	74.00	-19.92	Vertical
4924.00	53.16	36.58	6.89	41.86	54.77	74.00	-19.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.37	36.58	6.89	41.86	40.98	54.00	-13.02	Vertical
4924.00	39.19	36.58	6.89	41.86	40.80	54.00	-13.20	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	53.06	36.06	6.81	41.82	54.11	74.00	-19.89	Vertical
4844.00	53.74	36.06	6.81	41.82	54.79	74.00	-19.21	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	39.18	36.06	6.81	41.82	40.23	54.00	-13.77	Vertical
4844.00	40.11	36.06	6.81	41.82	41.16	54.00	-12.84	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.47	36.32	6.85	41.84	54.80	74.00	-19.20	Vertical
4874.00	53.61	36.32	6.85	41.84	54.94	74.00	-19.06	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.26	36.32	6.85	41.84	40.59	54.00	-13.41	Vertical
4874.00	39.47	36.32	6.85	41.84	40.80	54.00	-13.20	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	52.81	36.45	6.87	41.85	54.28	74.00	-19.72	Vertical
4904.00	53.09	36.45	6.87	41.85	54.56	74.00	-19.44	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	39.17	36.45	6.87	41.85	40.64	54.00	-13.36	Vertical
4904.00	39.06	36.45	6.87	41.85	40.53	54.00	-13.47	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

External antenna B :

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	51.86	30.94	6.81	41.82	47.79	74.00	-26.21	Vertical
4824.00	50.64	30.94	6.81	41.82	46.57	74.00	-27.43	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.37	30.94	6.81	41.82	37.30	54.00	-16.70	Vertical
4824.00	40.86	30.94	6.81	41.82	36.79	54.00	-17.21	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.98	31.20	6.85	41.84	47.19	74.00	-26.81	Vertical
4874.00	50.04	31.20	6.85	41.84	46.25	74.00	-27.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	40.67	31.20	6.85	41.84	36.88	54.00	-17.12	Vertical
4874.00	40.06	31.20	6.85	41.84	36.27	54.00	-17.73	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	50.34	31.46	6.89	41.86	46.83	74.00	-27.17	Vertical
4924.00	50.49	31.46	6.89	41.86	46.98	74.00	-27.02	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	40.39	31.46	6.89	41.86	36.88	54.00	-17.12	Vertical
4924.00	39.86	31.46	6.89	41.86	36.35	54.00	-17.65	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	50.67	30.94	6.81	41.82	46.60	74.00	-27.40	Vertical
4824.00	50.23	30.94	6.81	41.82	46.16	74.00	-27.84	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	40.26	30.94	6.81	41.82	36.19	54.00	-17.81	Vertical
4824.00	40.37	30.94	6.81	41.82	36.30	54.00	-17.70	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.16	31.20	6.85	41.84	46.37	74.00	-27.63	Vertical
4874.00	50.08	31.20	6.85	41.84	46.29	74.00	-27.71	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.98	31.20	6.85	41.84	36.19	54.00	-17.81	Vertical
4874.00	39.46	31.20	6.85	41.84	35.67	54.00	-18.33	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	50.83	31.46	6.89	41.86	47.32	74.00	-26.68	Vertical
4924.00	50.94	31.46	6.89	41.86	47.43	74.00	-26.57	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	40.36	31.46	6.89	41.86	36.85	54.00	-17.15	Vertical
4924.00	39.94	31.46	6.89	41.86	36.43	54.00	-17.57	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	51.23	36.06	6.81	41.82	52.28	74.00	-21.72	Vertical
4824.00	51.14	36.06	6.81	41.82	52.19	74.00	-21.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	40.86	36.06	6.81	41.82	41.91	54.00	-12.09	Vertical
4824.00	40.37	36.06	6.81	41.82	41.42	54.00	-12.58	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.89	36.32	6.85	41.84	52.22	74.00	-21.78	Vertical
4874.00	50.34	36.32	6.85	41.84	51.67	74.00	-22.33	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	40.26	36.32	6.85	41.84	41.59	54.00	-12.41	Vertical
4874.00	40.32	36.32	6.85	41.84	41.65	54.00	-12.35	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	51.37	36.58	6.89	41.86	52.98	74.00	-21.02	Vertical
4924.00	50.49	36.58	6.89	41.86	52.10	74.00	-21.90	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	41.06	36.58	6.89	41.86	42.67	54.00	-11.33	Vertical
4924.00	40.38	36.58	6.89	41.86	41.99	54.00	-12.01	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	49.86	36.06	6.81	41.82	50.91	74.00	-23.09	Vertical
4844.00	49.37	36.06	6.81	41.82	50.42	74.00	-23.58	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	39.35	36.06	6.81	41.82	40.40	54.00	-13.60	Vertical
4844.00	39.47	36.06	6.81	41.82	40.52	54.00	-13.48	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.49	36.32	6.85	41.84	51.82	74.00	-22.18	Vertical
4874.00	49.28	36.32	6.85	41.84	50.61	74.00	-23.39	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	40.26	36.32	6.85	41.84	41.59	54.00	-12.41	Vertical
4874.00	38.65	36.32	6.85	41.84	39.98	54.00	-14.02	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	49.78	36.45	6.87	41.85	51.25	74.00	-22.75	Vertical
4904.00	49.67	36.45	6.87	41.85	51.14	74.00	-22.86	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	40.02	36.45	6.87	41.85	41.49	54.00	-12.51	Vertical
4904.00	39.37	36.45	6.87	41.85	40.84	54.00	-13.16	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Ceramic ANT :

Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	53.77	30.94	6.81	41.82	49.70	74.00	-24.30	Vertical
4824.00	54.09	30.94	6.81	41.82	50.02	74.00	-23.98	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.83	30.94	6.81	41.82	37.76	54.00	-16.24	Vertical
4824.00	40.09	30.94	6.81	41.82	36.02	54.00	-17.98	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.86	31.20	6.85	41.84	50.07	74.00	-23.93	Vertical
4874.00	54.24	31.20	6.85	41.84	50.45	74.00	-23.55	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	41.67	31.20	6.85	41.84	37.88	54.00	-16.12	Vertical
4874.00	40.96	31.20	6.85	41.84	37.17	54.00	-16.83	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	53.98	31.46	6.89	41.86	50.47	74.00	-23.53	Vertical
4924.00	54.87	31.46	6.89	41.86	51.36	74.00	-22.64	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	41.86	31.46	6.89	41.86	38.35	54.00	-15.65	Vertical
4924.00	41.06	31.46	6.89	41.86	37.55	54.00	-16.45	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

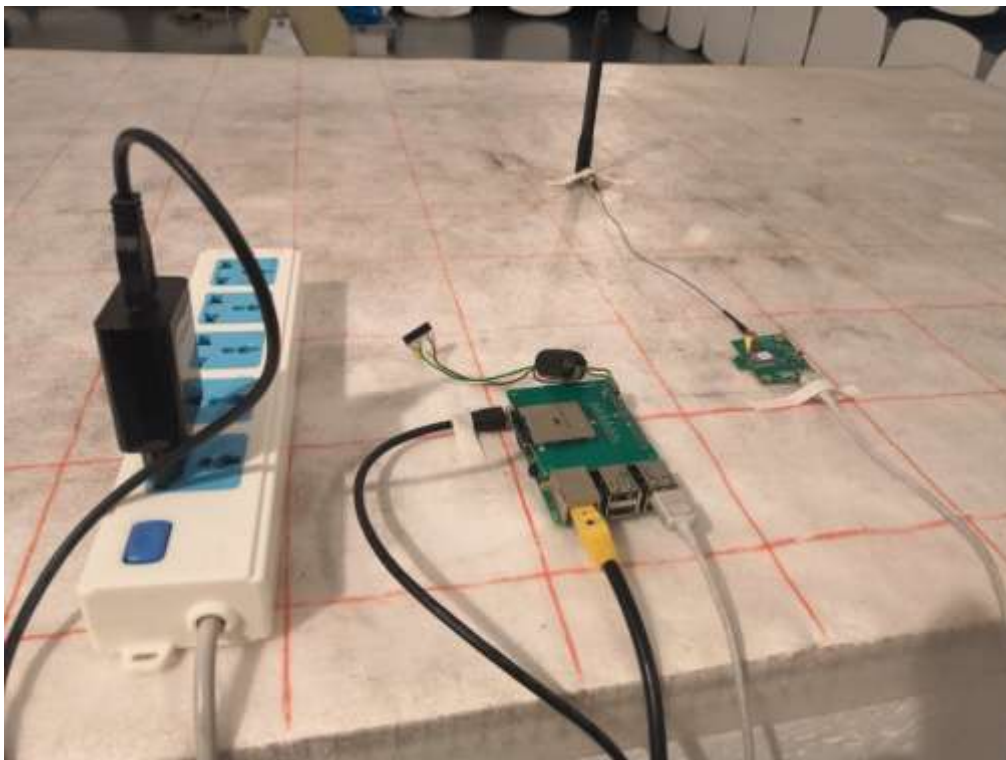
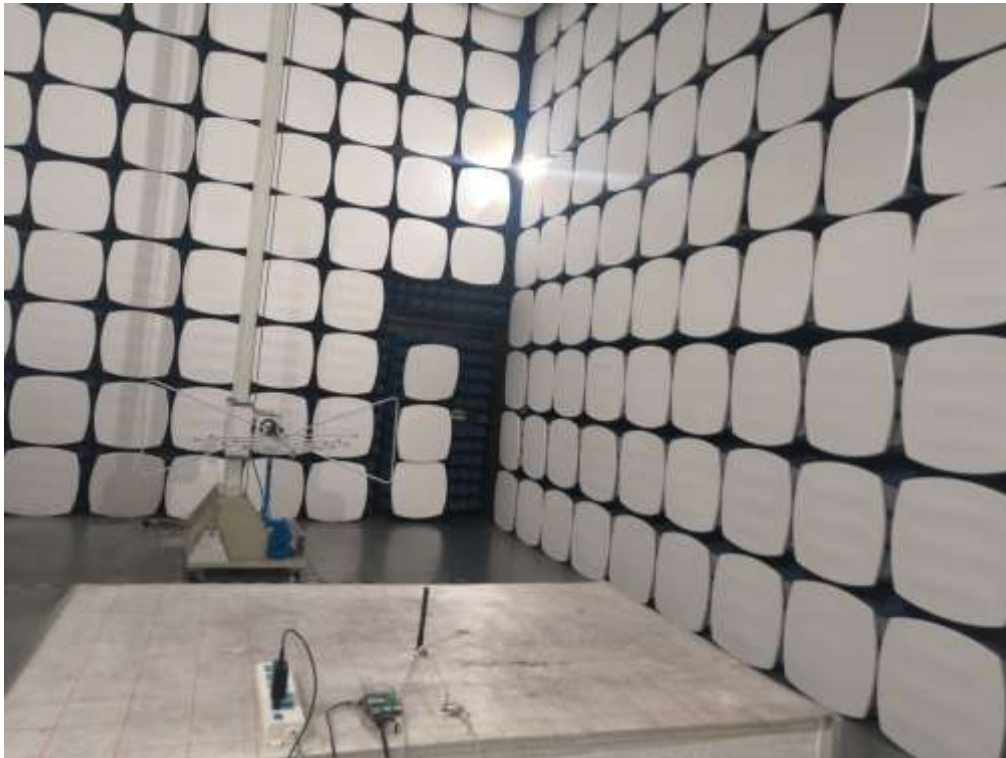
802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	52.46	30.94	6.81	41.82	48.39	74.00	-25.61	Vertical
4824.00	53.84	30.94	6.81	41.82	49.77	74.00	-24.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.89	30.94	6.81	41.82	35.82	54.00	-18.18	Vertical
4824.00	39.47	30.94	6.81	41.82	35.40	54.00	-18.60	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.21	31.20	6.85	41.84	49.42	74.00	-24.58	Vertical
4874.00	53.98	31.20	6.85	41.84	50.19	74.00	-23.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.24	31.20	6.85	41.84	35.45	54.00	-18.55	Vertical
4874.00	39.26	31.20	6.85	41.84	35.47	54.00	-18.53	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	52.79	31.46	6.89	41.86	49.28	74.00	-24.72	Vertical
4924.00	53.34	31.46	6.89	41.86	49.83	74.00	-24.17	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.48	31.46	6.89	41.86	35.97	54.00	-18.03	Vertical
4924.00	39.22	31.46	6.89	41.86	35.71	54.00	-18.29	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	52.98	36.06	6.81	41.82	54.03	74.00	-19.97	Vertical
4824.00	53.47	36.06	6.81	41.82	54.52	74.00	-19.48	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.24	36.06	6.81	41.82	40.29	54.00	-13.71	Vertical
4824.00	40.06	36.06	6.81	41.82	41.11	54.00	-12.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	39.24	36.06	6.81	41.82	40.29	54.00	-13.71	Vertical
4824.00	40.06	36.06	6.81	41.82	41.11	54.00	-12.89	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.16	36.32	6.85	41.84	40.49	54.00	-13.51	Vertical
4874.00	39.81	36.32	6.85	41.84	41.14	54.00	-12.86	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	52.47	36.58	6.89	41.86	54.08	74.00	-19.92	Vertical
4924.00	53.16	36.58	6.89	41.86	54.77	74.00	-19.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	39.37	36.58	6.89	41.86	40.98	54.00	-13.02	Vertical
4924.00	39.19	36.58	6.89	41.86	40.80	54.00	-13.20	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

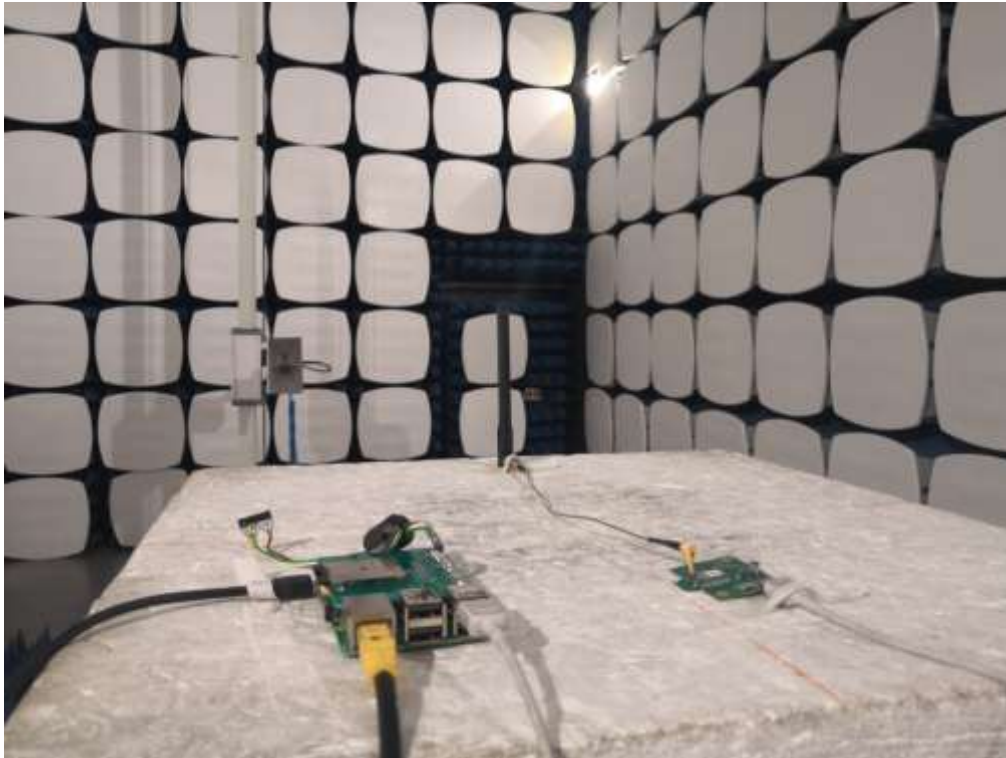
802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	53.06	36.06	6.81	41.82	54.11	74.00	-19.89	Vertical
4844.00	53.74	36.06	6.81	41.82	54.79	74.00	-19.21	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	39.18	36.06	6.81	41.82	40.23	54.00	-13.77	Vertical
4844.00	40.11	36.06	6.81	41.82	41.16	54.00	-12.84	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.47	36.32	6.85	41.84	54.80	74.00	-19.20	Vertical
4874.00	53.61	36.32	6.85	41.84	54.94	74.00	-19.06	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	39.26	36.32	6.85	41.84	40.59	54.00	-13.41	Vertical
4874.00	39.47	36.32	6.85	41.84	40.80	54.00	-13.20	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	52.81	36.45	6.87	41.85	54.28	74.00	-19.72	Vertical
4904.00	53.09	36.45	6.87	41.85	54.56	74.00	-19.44	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	39.17	36.45	6.87	41.85	40.64	54.00	-13.36	Vertical
4904.00	39.06	36.45	6.87	41.85	40.53	54.00	-13.47	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

7 Test Setup Photo

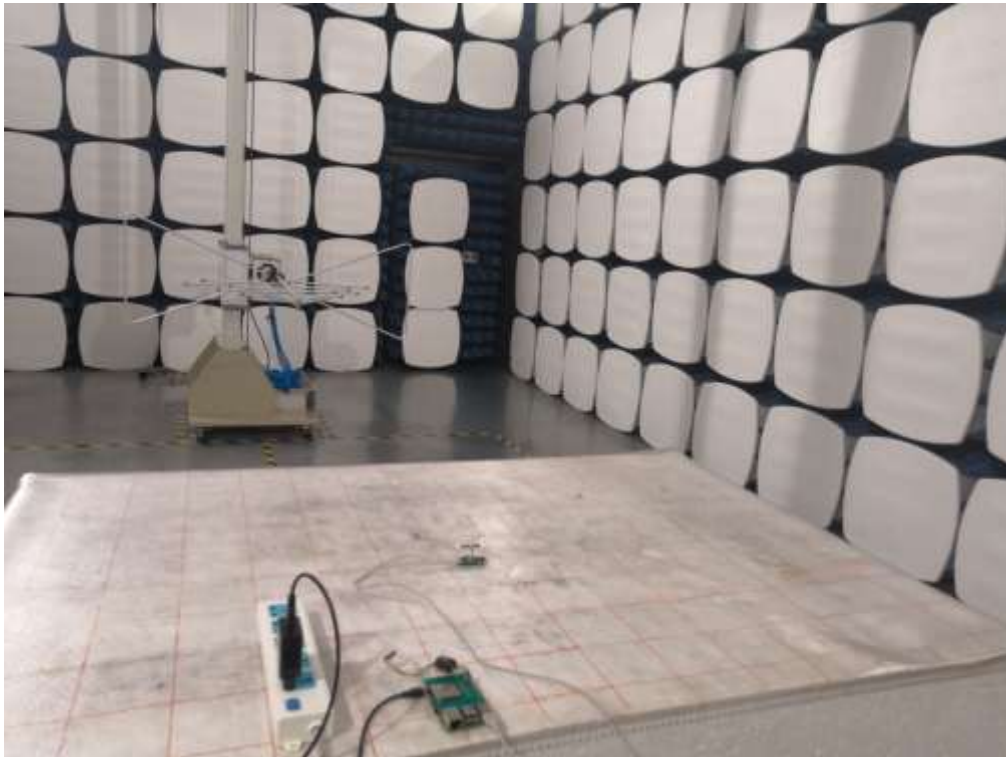
Radiated Spurious Emission(for External ANT A)
Below 1GHz



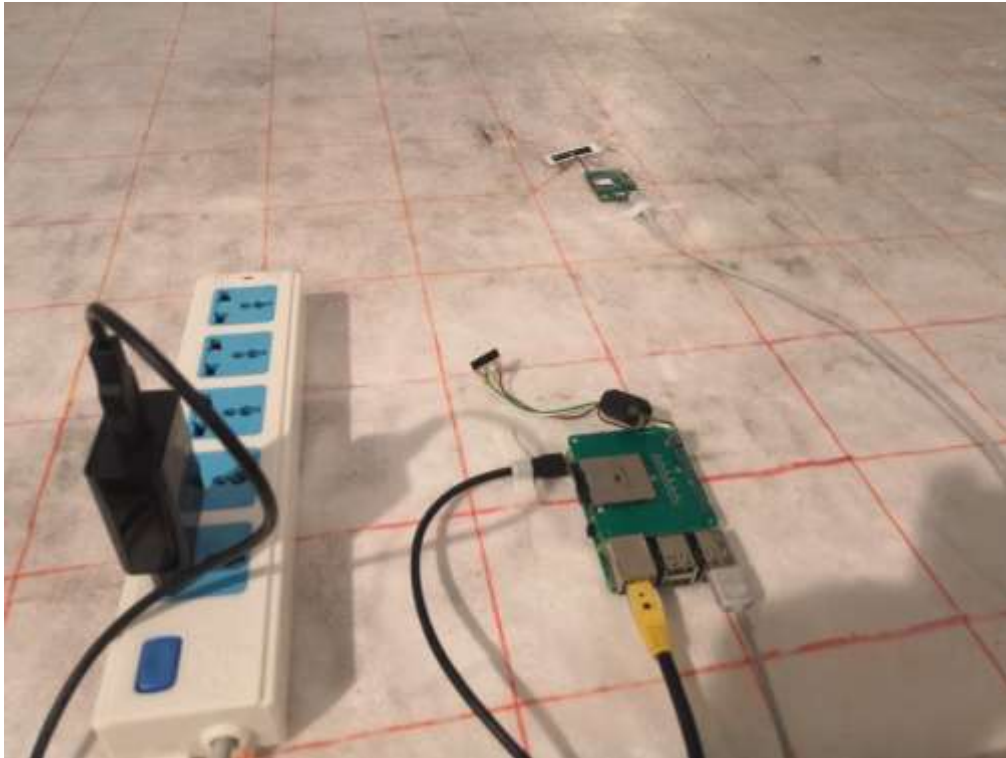
Radiated Spurious Emission(for External ANT A)
Above 1GHz



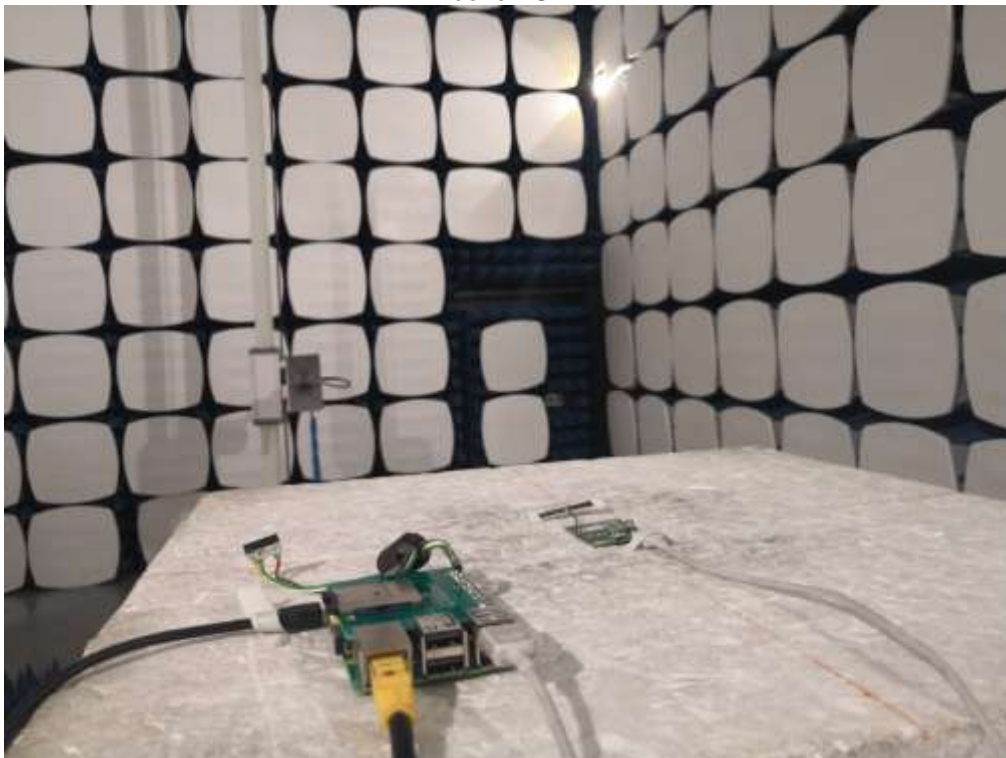
Radiated Spurious Emission(for External ANT B)
Below 1GHz



Radiated Spurious Emission(for External ANT B)
Below 1GHz



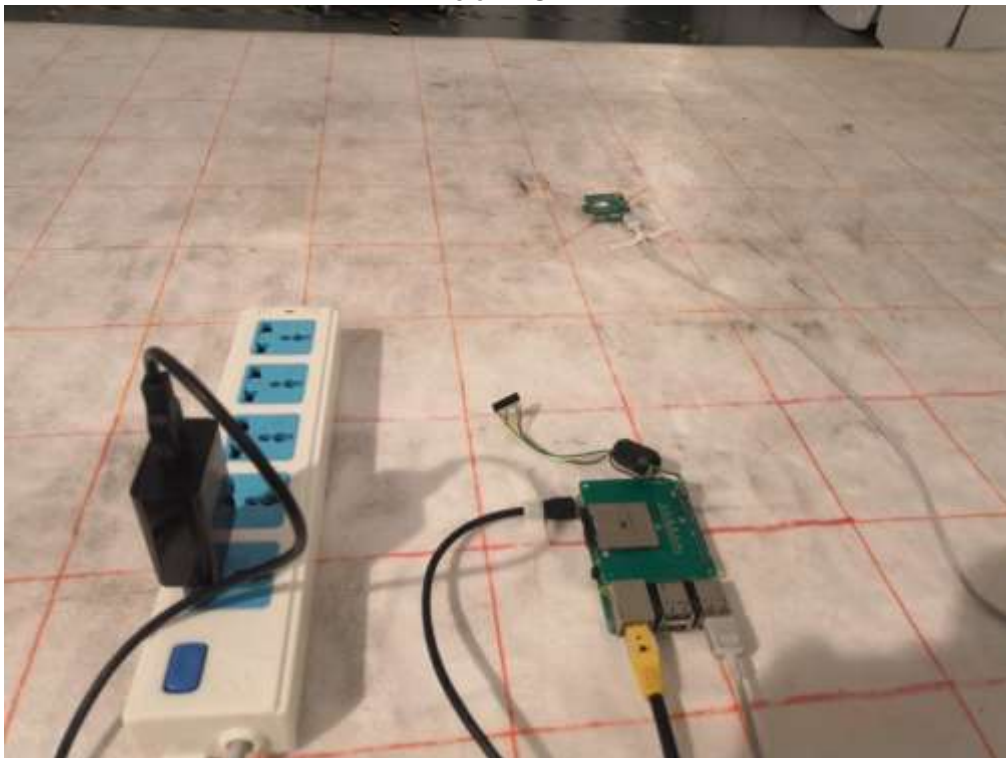
Above 1GHz



Radiated Spurious Emission(for Ceramic ANT)
Below 1GHz



Below 1GHz

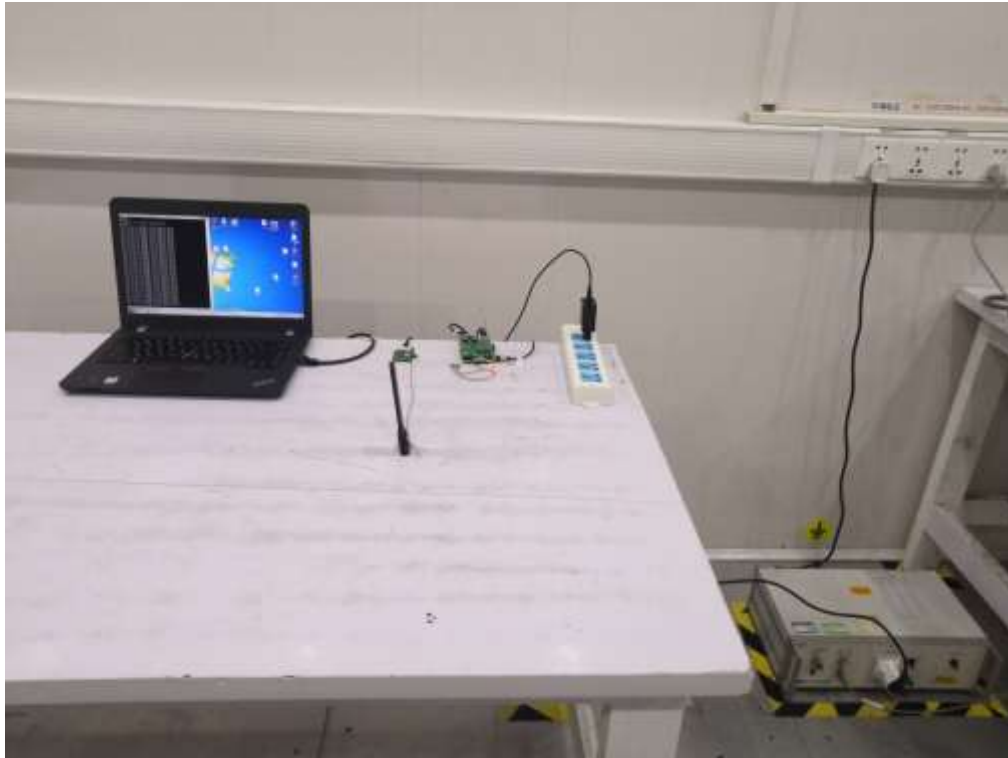


Radiated Spurious Emission(for Ceramic ANT)

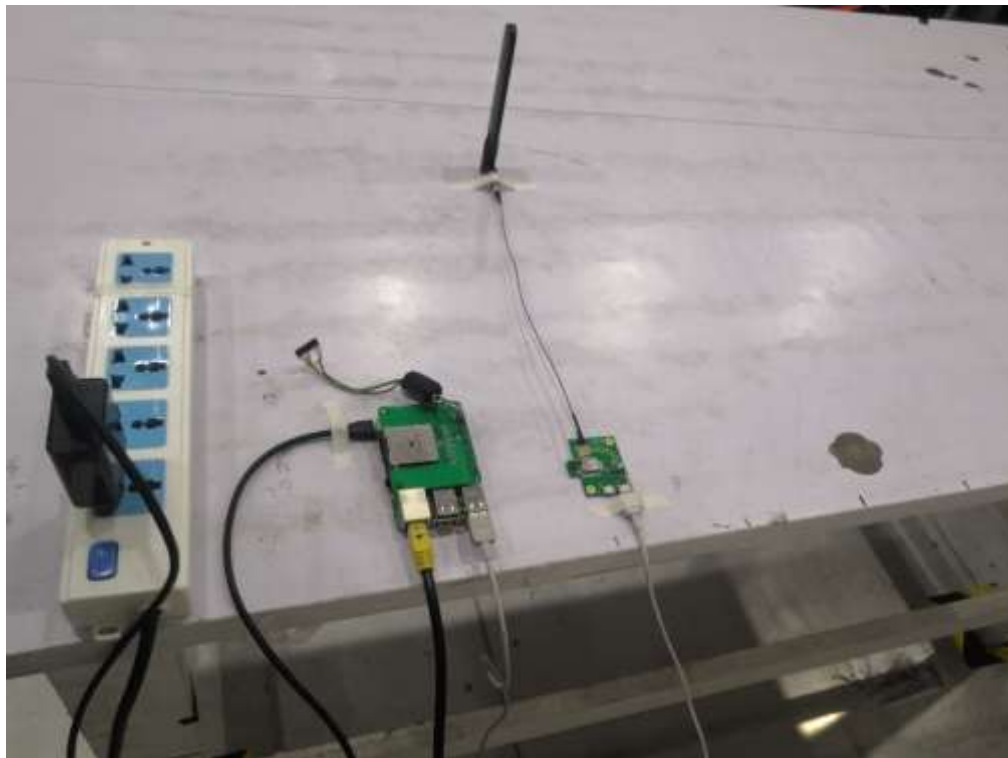
Above 1GHz



Conducted Emission

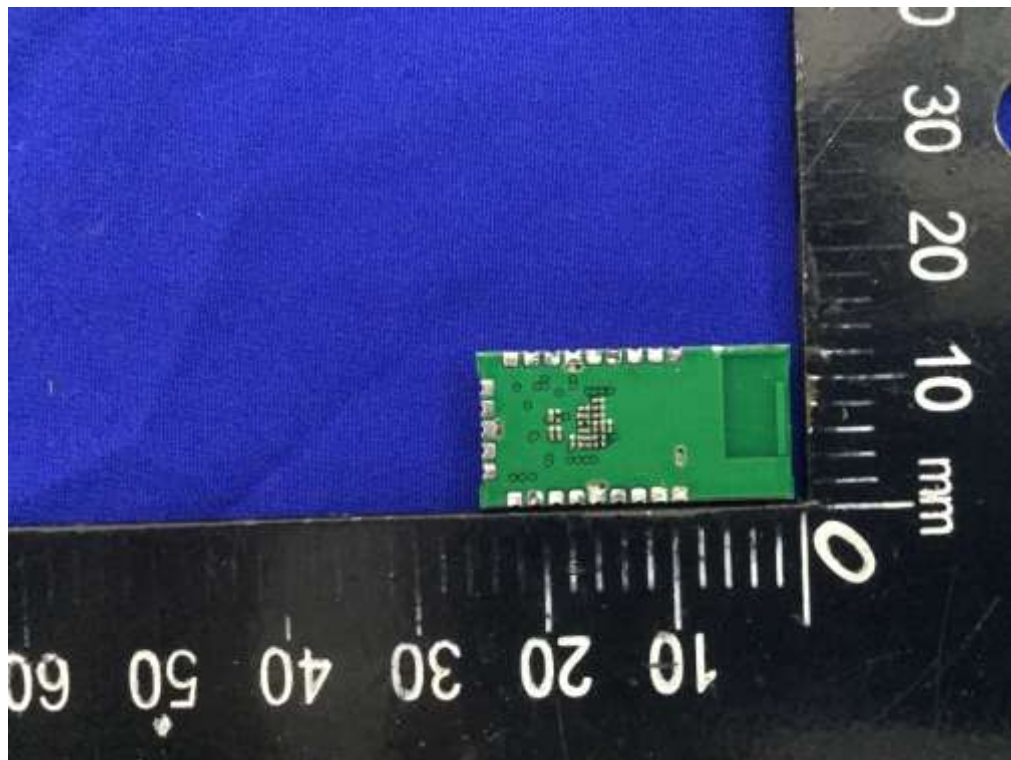


Conducted Emission

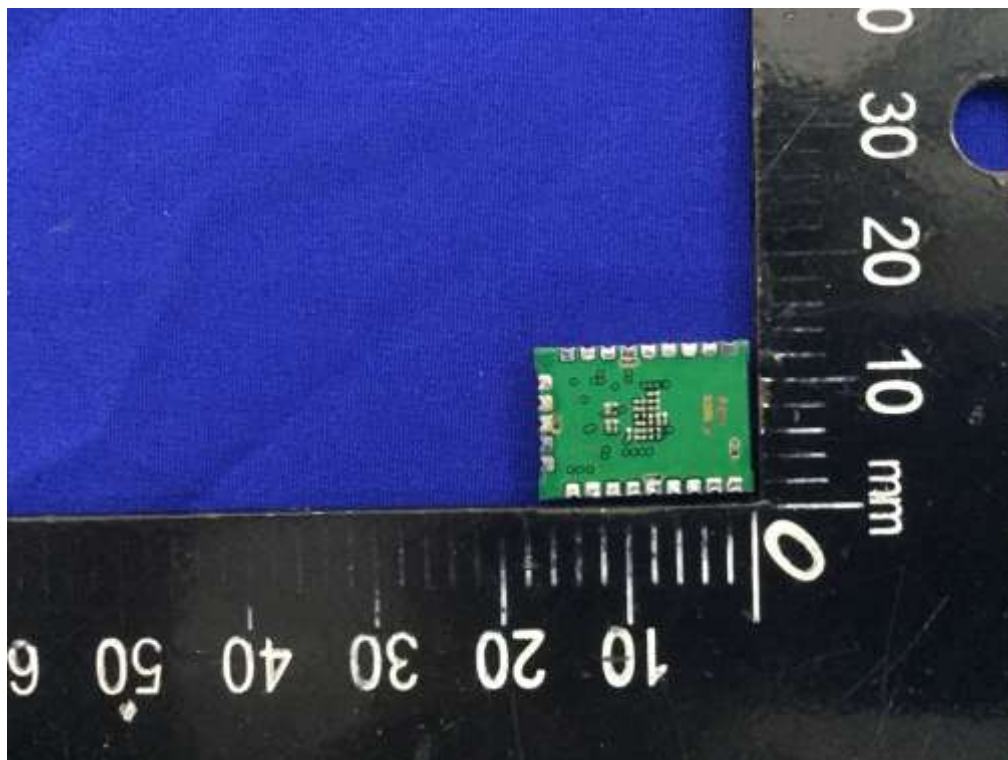
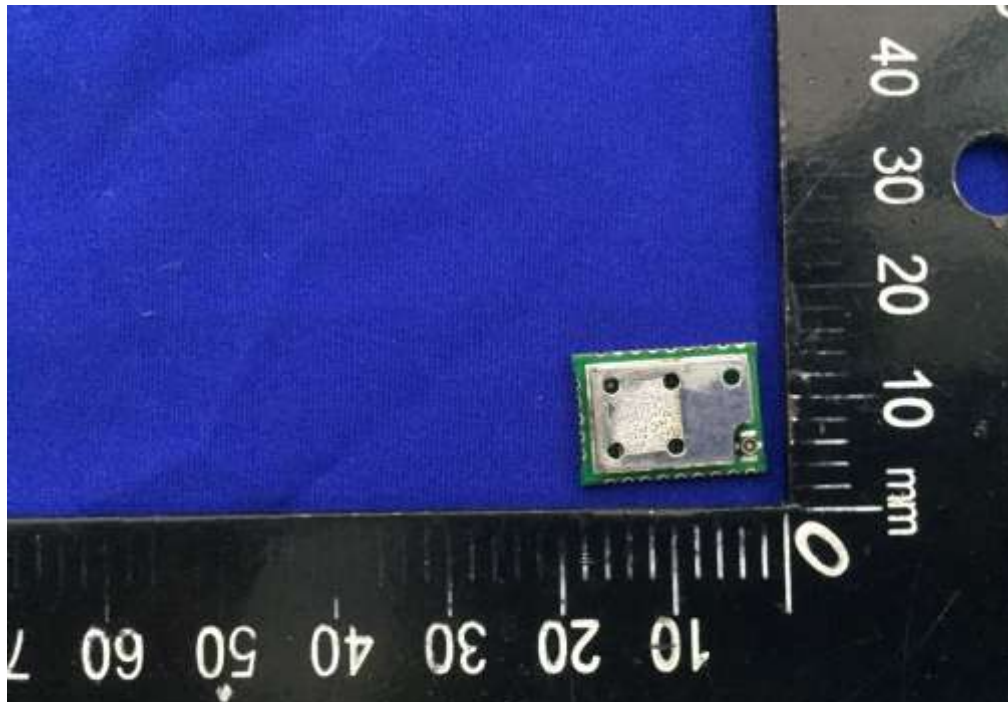


8 EUT Constructional Details

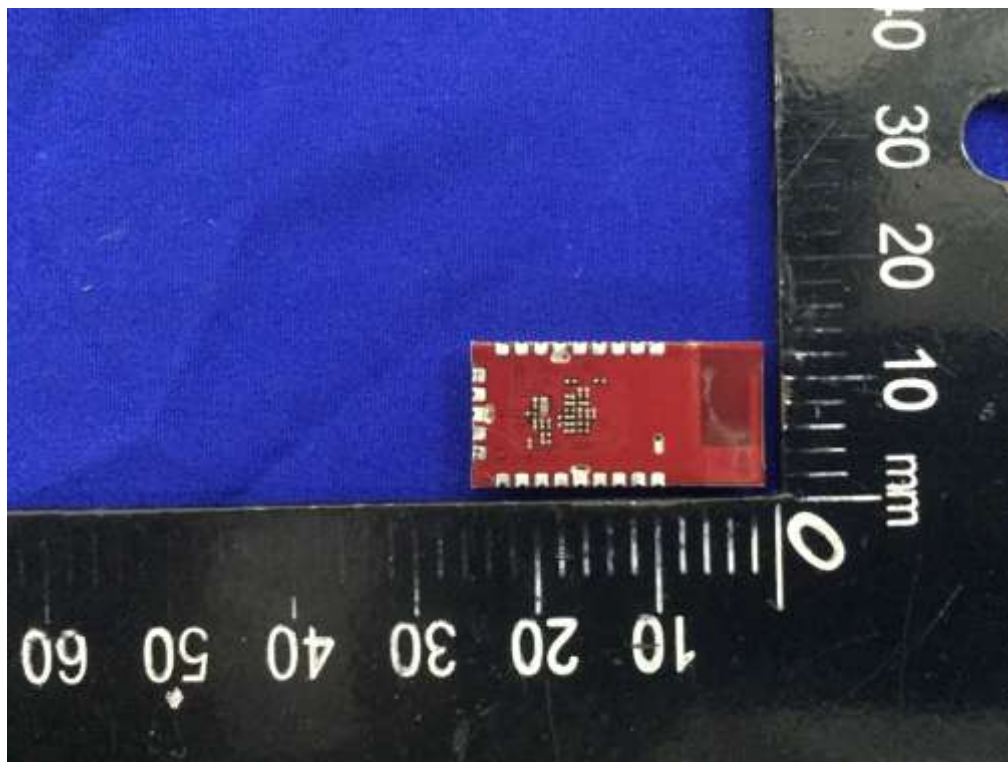
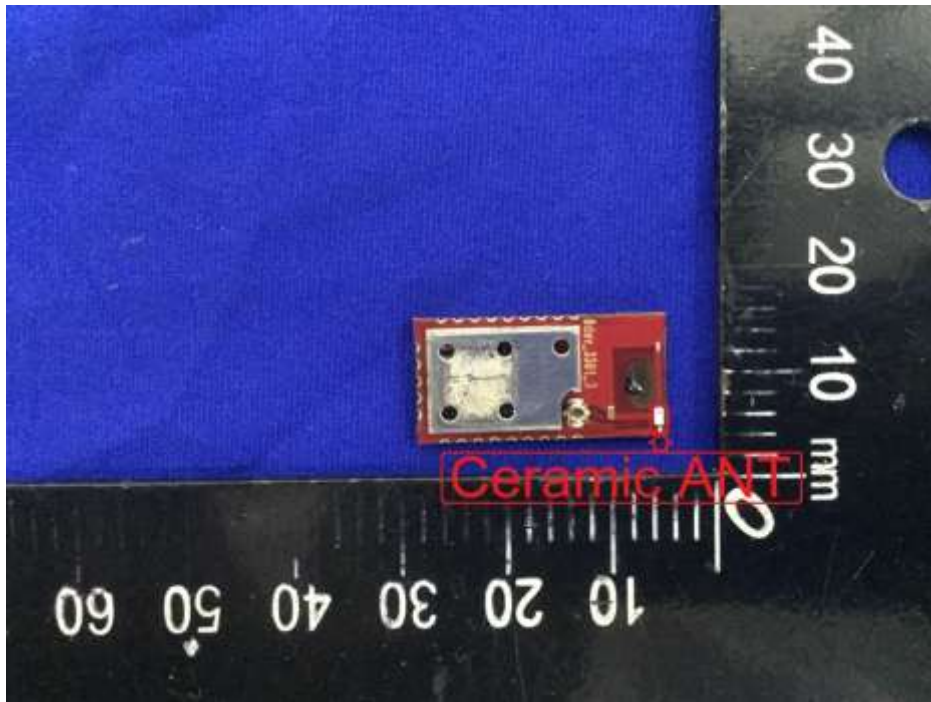
BLUE bean A



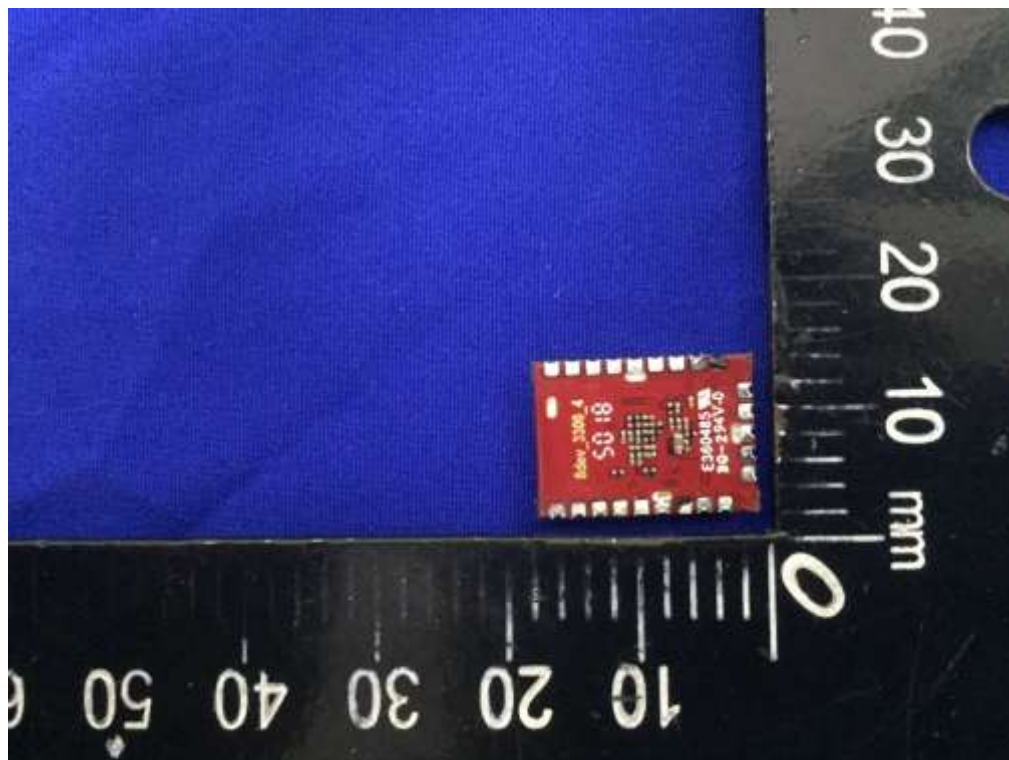
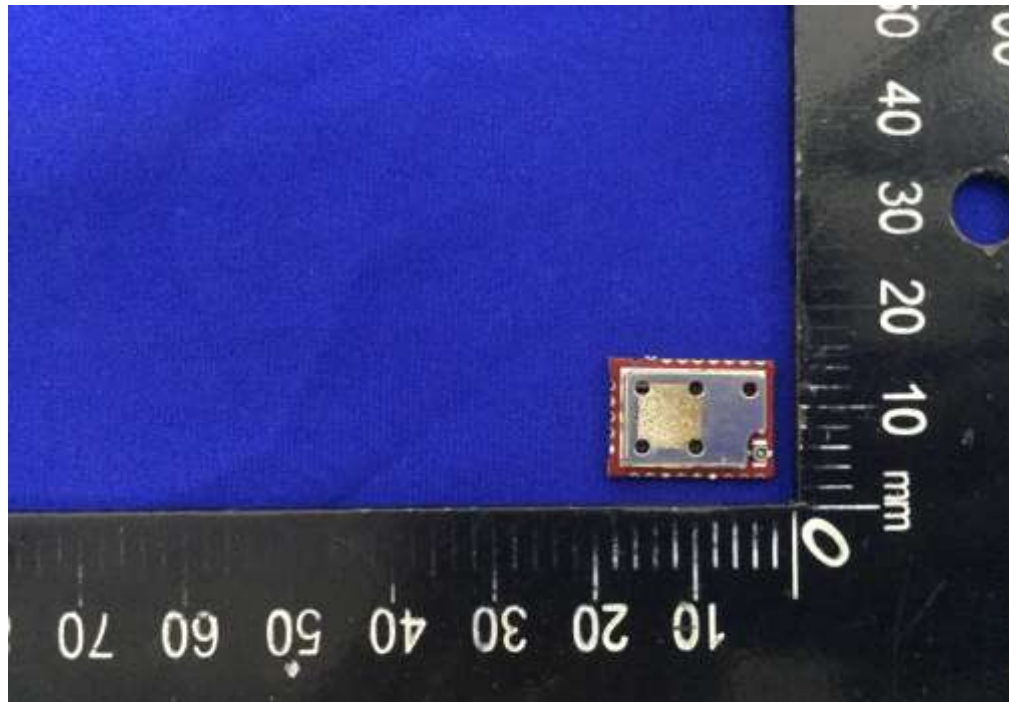
BLUE bean C



RED bean A



RED bean C



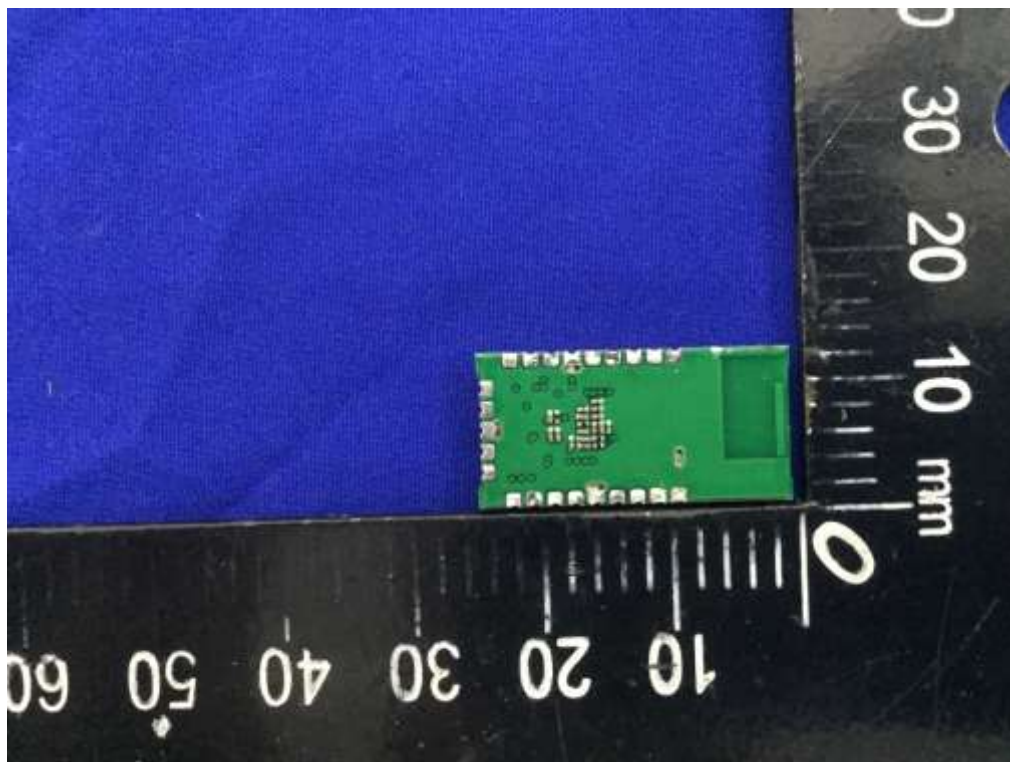
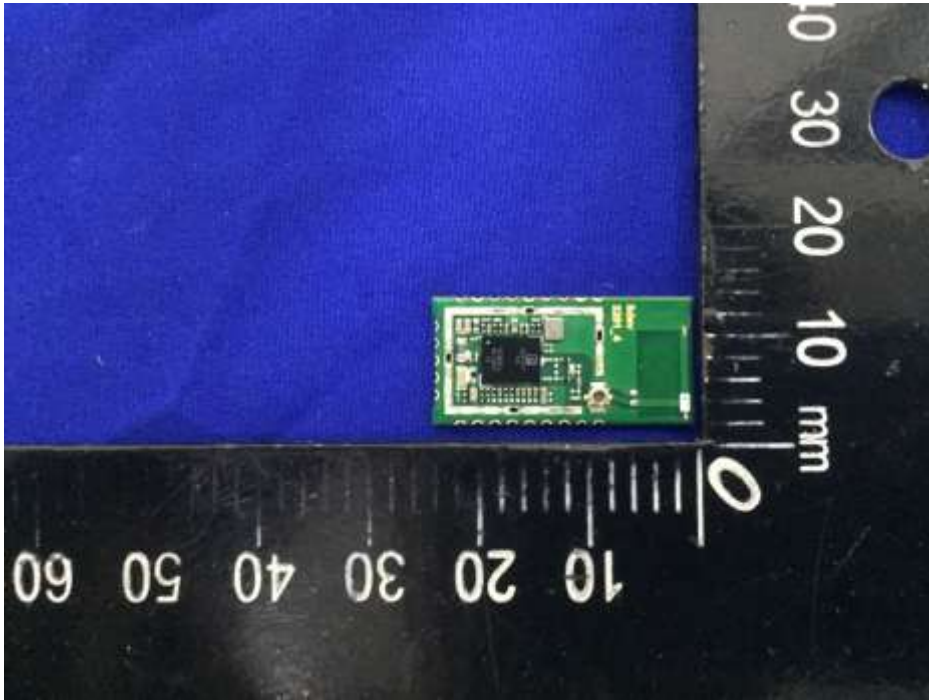
External antenna A



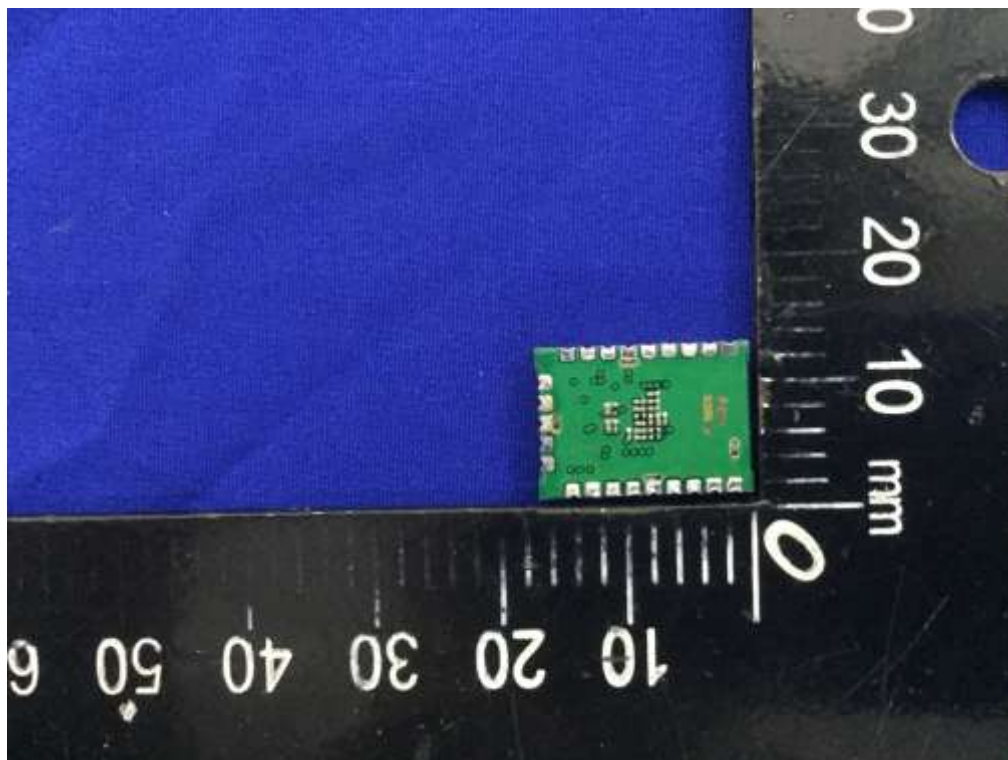
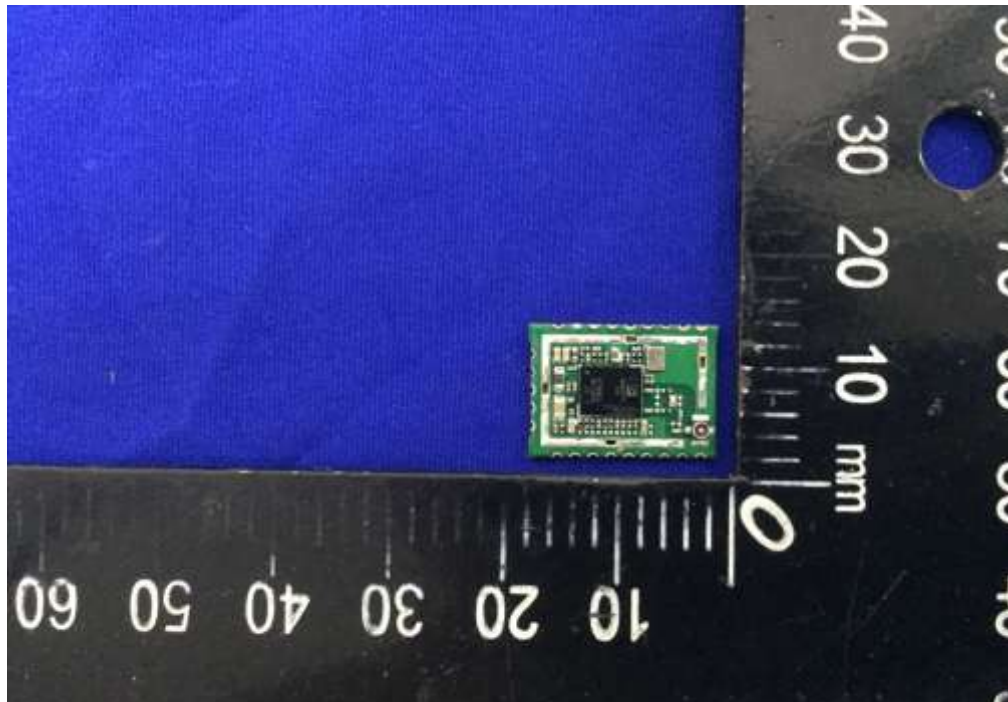
External antenna B



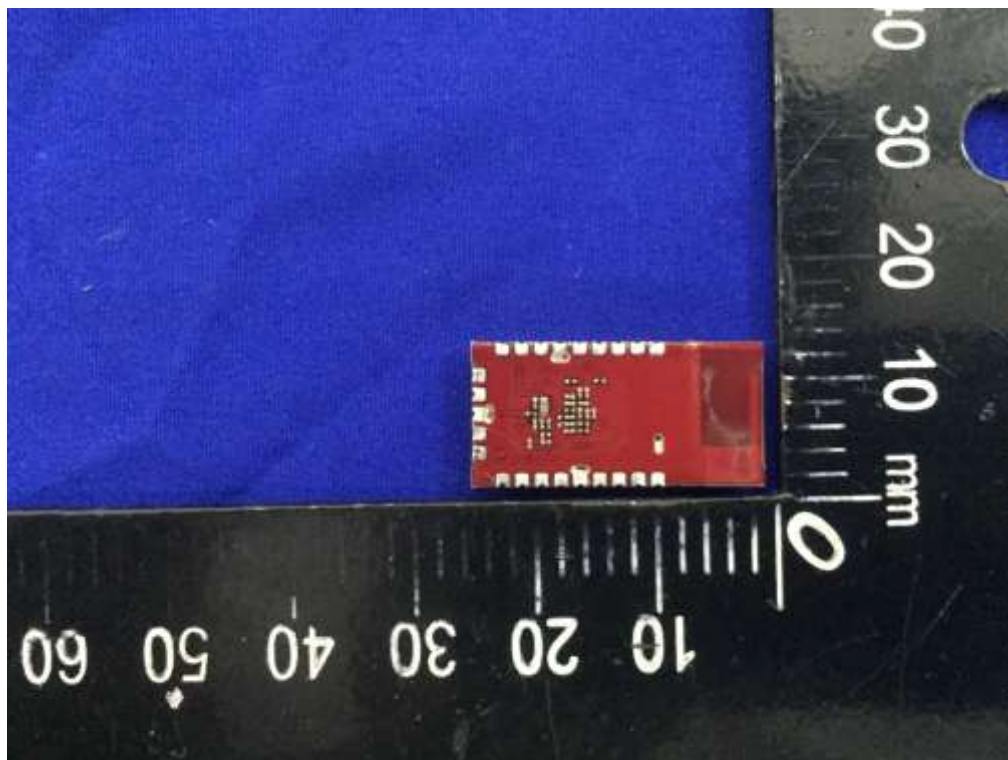
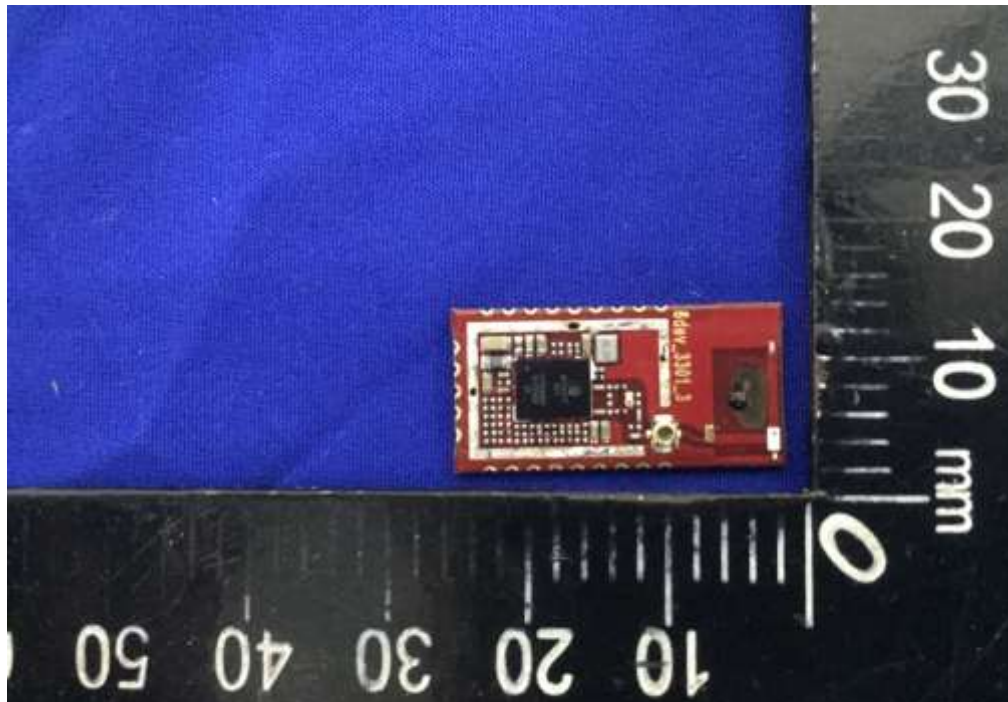
BLUE bean A

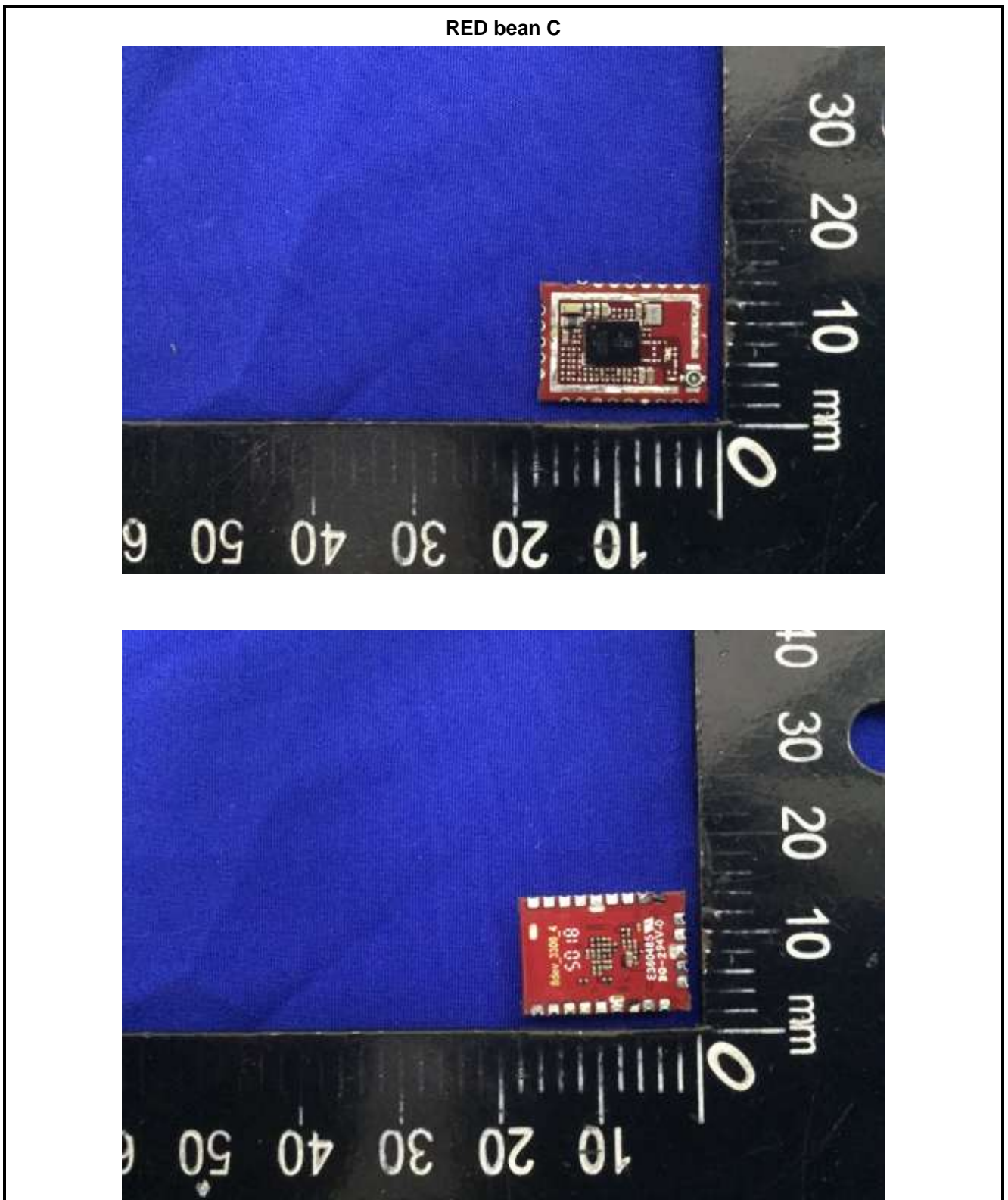


BLUE bean C



RED bean A





-----End of report-----