# **TEST REPORT**

For WiFi-2.4GHz Band

20900 MONZA (Italy)

eport No::	CHTEW22090063	Report Verification

Project No...... SHT2102011314EW

FCC ID.....: 2AN9S-ABX00042

Applicant's name .....: Arduino S.r.l.

Address...... Via Andrea Appiani, 25

Product Name .....: Portenta H7

 Trade Mark
 ......
 Arduino

 Model No.
 .....
 ABX00042

Listed Model(s) ..... -

Standard .....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample........... Mar.04, 2021

Date of testing...... Mar.04, 2021- Sep.19, 2022

Date of issue...... Sep.20, 2022

Result...... PASS

Compiled by

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Approved by

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Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

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# 1. TEST STANDARDS AND REPORT VERSION

#### 1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

## 1.2. Report version

Revision No.	Date of issue	Description
N/A	2022-09-20	Original

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# 2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Zijian Li
5.2	AC Conducted Emission	15.207	PASS	Quanhai Deng
5.3	Peak Output Power	15.247(b)(3)	PASS	Zijian Li
5.4	Power Spectral Density	15.247(e)	PASS	Zijian Li
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Zijian Li
5.6	99% Occupied Bandwidth	-	PASS <sup>*1</sup>	Zijian Li
5.7	Duty cycle	-	PASS <sup>*1</sup>	Zijian Li
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Zijian Li
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Zijian Li
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Dongyang Wu

### Note:

<sup>-</sup> The measurement uncertainty is not included in the test result.

 <sup>\*1:</sup> No requirement on standard, only report these test data.

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# 3. **SUMMARY**

## 3.1. Client Information

Applicant:	Arduino S.r.I.	
Address:	Via Andrea Appiani, 25 20900 MONZA (Italy)	
Manufacturer:	Arduino S.r.I.	
Address: Via Andrea Appiani, 25 20900 MONZA (Italy)		

# 3.2. Product Description

Main unit information:	
Product Name:	Portenta H7
Trade Mark:	Arduino
Model No.:	ABX00042
Listed Model(s):	-
Power supply:	DC 5V from USB
Hardware version:	4.0
Software version:	1.3.0

# 3.3. Radio Specification Description

Support type <sup>*2</sup> :	⊠ 802.11b	⊠ 802.11g	⊠ 802.11n
Support bandwidth:	⊠ 20MHz	☐ 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
wodulation.	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MH	Hz
Channel number:	802.11b/g/n(HT20):	802.11b/g/n(HT20): 11	
Channel separation:	5MHz	5MHz	
Antenna technology:	⊠ siso	⊠ SISO ☐ MIMO	
Antenna type:	external omnidirection	external omnidirectional monopole antenna	
Antenna gain:	3.6dBi	3.6dBi	

Note:

<sup>\*2:</sup> only show the RF function associated with this report.

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# 3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type Accreditation Number	
Qualifications	FCC	762235

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# 4. TEST CONFIGURATION

## 4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/g/n(HT20)		
Channel	Frequency (MHz)	
01	2412	
02	2417	
· :	· :	
06	2437	
· :	· :	
10	2457	
11	2462	

### 4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0

### 4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

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### 4.4. Test sample information

Test item	HTW sample no.	
RF Conducted test items	Please refer to the description in the appendix report	
RF Radiated test items	YPHT21020113010	
EMI test items	YPHT21020113008	

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

### 4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ Yes			
Item	Equipment	Trade Name	Model No.
1	Laptop	HP	EliteBook 8470p
2			

## 4.6. Testing environmental condition

Туре	Requirement	Actual		
Temperature:	15~35°C	25°C		
Relative Humidity:	25~75%	50%		
Air Pressure:	860~1060mbar	1000mbar		

## 4.7. Statement of the measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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# 4.8. Equipment Used during the Test

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2022/08/30	2023/08/29
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2022/08/29	2023/08/28
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2022/08/29	2023/08/28
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2022/09/17	2023/09/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2023/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2022/08/30	2023/08/29
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2018/09/27	2023/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2022/08/25	2023/08/24
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2022/08/25	2023/08/24
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2022/08/25	2023/08/24
•	Power Meter	Anritsu	ML249A	N/A	2022/08/25	2023/08/24
0	Radio communication tester	R&S	CMW500	137688-Lv	2022/08/25	2023/08/24

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# 5. TEST CONDITIONS AND RESULTS

### 5.1. Antenna Requirement

### **REQUIREMENT**

### FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

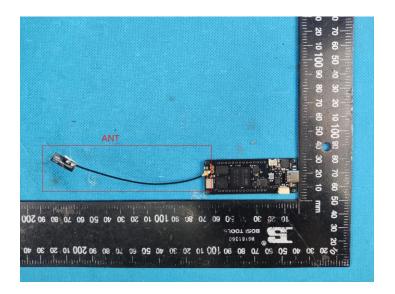
### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

#### **TEST RESULT**

<b>—</b> .	
□ Passed	☐ Not Applicable

The antenna type is an external omnidirectional monopole antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



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### 5.2. AC Conducted Emission

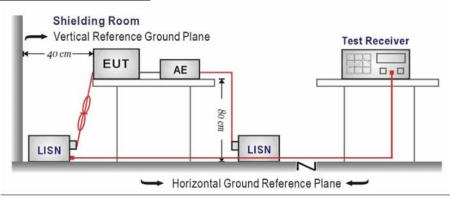
#### LIMIT

### FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ov range (MHz)	Limit (dBuV)					
Frequency range (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### TEST CONFIGURATION



#### **TEST PROCEDURE**

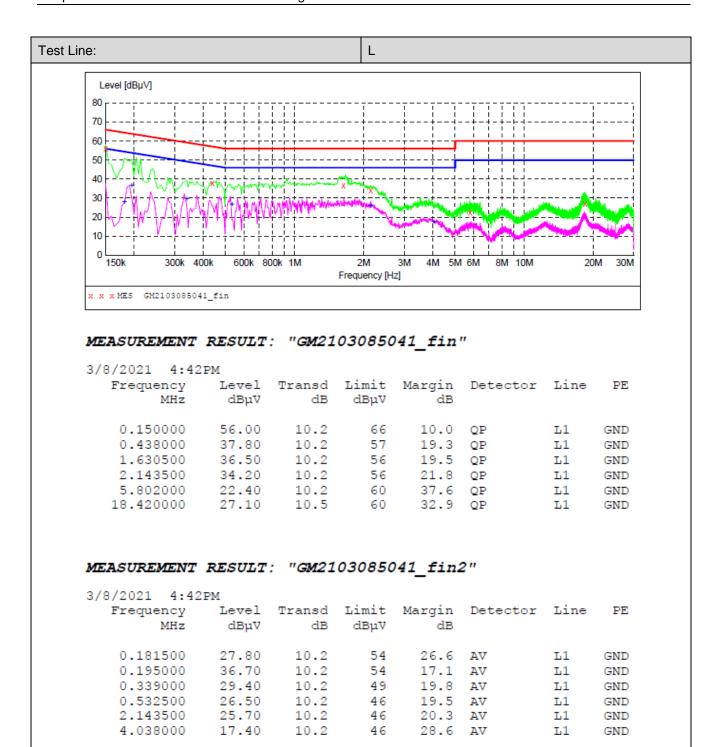
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

### TEST MODE

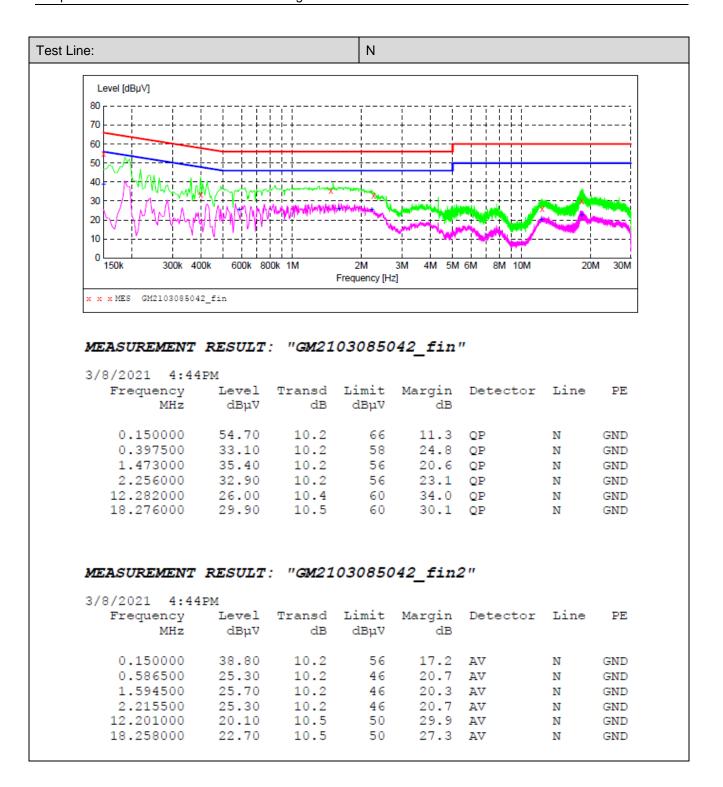
Please refer to the clause 4.2

#### **TEST RESULT**

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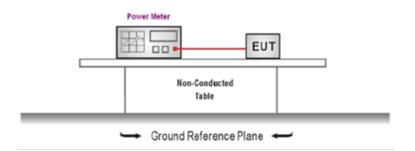
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### 5.3. Peak Output Power

#### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

### **TEST MODE**

Please refer to the clause 4.2

### **TEST RESULT**

### **TEST DATA**

Please refer to appendix A on the appendix report

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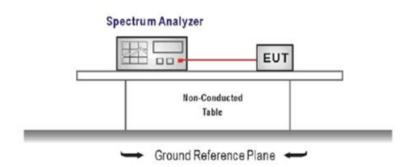
### 5.4. Power Spectral Density

#### LIMIT

### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

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

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### **TEST MODE**

Please refer to the clause 4.2

#### **TEST RESULT**

### **TEST DATA**

Please refer to appendix B on the appendix report

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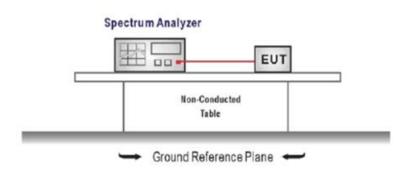
#### 5.5. 6dB bandwidth

#### LIMIT

### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

#### **TEST MODE**

Please refer to the clause 4.2

### **TEST RESULT**

#### **TEST DATA**

Please refer to appendix C on the appendix report

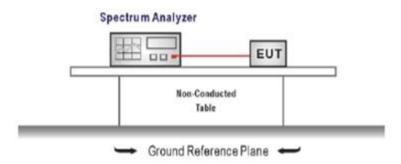
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### 5.6. 99% Occupied Bandwidth

### **LIMIT**

N/A

## **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).

Center Frequency = channel center frequency

Span≥1.5 x OBW

 $RBW = 1\%\sim5\%OBW$ 

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

### TEST MODE

Please refer to the clause 4.2

### **TEST RESULT**

### **TEST DATA**

Please refer to appendix D on the appendix report

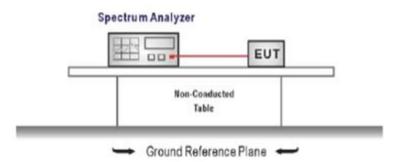
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## 5.7. Duty Cycle

#### LIMIT

N/A

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:
  - Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW
  - Sweep=as necessary to capture the entire dwell time,
  - Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

### **TEST MODE**

Please refer to the clause 4.2

### **TEST DATA**

Please refer to appendix E on the appendix report

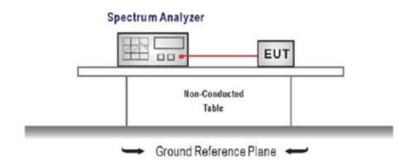
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# 5.8. Conducted Band edge and Spurious Emission

### <u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):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.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW  $\geq$  3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW  $\geq$  3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

#### **TEST MODE**

Please refer to the clause 4.2

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# **TEST RESULT**

oxedow Passed oxedow Not Applicable

## **TEST DATA**

Please refer to appendix F on the appendix report

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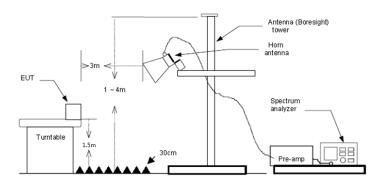
### 5.9. Radiated Band edge Emission

#### **LIMIT**

### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

#### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
  - a) Span shall wide enough to fully capture the emission being measured
  - b) Set RBW=100kHz for <1GHz, VBW=3\*RBW, Sweep time=auto, Detector=peak, Trace=max hold
  - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

#### TEST MODE

Please refer to the clause 4.2

#### **TEST RESULT**

### Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

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Туре		802.1	1b	Test c	hannel	CH	101	P	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	31.17	27.96	7.30	37.56	20.00	48.87	74.00	-25.13	Peak
	2	2390.01	30.28	27.72	7.72	37.45	20.00	48.27	74.00	-25.73	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	22.22	27.96	7.30	37.56	20.00	39.92	54.00	-14.08	Average
	2	2390.01	22.18	27.72	7.72	37.45	20.00	40.17	54.00	-13.83	Average
Туре		802.1	1b	Test c	hannel	CH	101	Р	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over limit	Remark
	1	2310.00	29.79	27.96	7.30	37.56	20.00	47.49	74.00	-26.51	Peak
	2	2390.01	30.03	27.72	7.72	37.45	20.00	48.02	74.00	-25.98	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	24.22	27.96	7.30	37.56	20.00	41.92	54.00	-12.08	Average
	2	2390.01	22.88	27.72	7.72	37.45	20.00	40.87	54.00	-13.13	Average

Туре		802.11	lb	Test cl	hannel	CH	<del>1</del> 11	F	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/		
	1	2483.49	30.08	27.43	7.80	37.26	20.00	48.05	74.00		Peak
	2	2500.00	27.91	27.40	7.81	37.26	20.00	45.86	74.00	-28.14	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	22.85	27.43	7.80	37.26	20.00	40.8	2 54.00	-13.18	Average
	2	2500.00	22.79	27.40	7.81	37.26	20.00	40.7	4 54.00	-13.26	Average
Туре		802.11	lb	Test cl	hannel	CH	<del>1</del> 11	F	Polarity		Vertical
Туре	Mark		lb Reading	Test cl	hannel Cable			Level	olarity	: Over	
Туре	Mark								Limit		Remark
Туре	Mark 1	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	m limi	Remark
Type		Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/	m limi -26.64	Remark t Peak
Туре	1	Frequency MHz 2483.49 2500.00	Reading dBuV/m 29.39	Antenna dB 27.43	Cable dB 7.80	Pream dB 37.26	p Aux dB 20.00	Level dBuV/m 47.36	Limit dBuV/ 74.00	m limi -26.64	Remark t Peak
Туре	1 2	Frequency MHz 2483.49 2500.00 Frequency	Reading dBuV/m 29.39 30.24 Reading dBuV/m	Antenna dB 27.43 27.40 Antenna	Cable dB 7.80 7.81 Cable dB	Pream dB 37.26 37.26	p Aux dB 20.00 20.00	Level dBuV/m 47.36 48.19 Level dBuV/m	Limit dBuV/ 74.00 74.00 Limit dBuV/m	m limi -26.64 -25.81	Remark t Peak Peak
Туре	1 2 Mark	Frequency MHz 2483.49 2500.00 Frequency MHz	Reading dBuV/m 29.39 30.24 Reading dBuV/m	Antenna dB 27.43 27.40 Antenna dB	Cable dB 7.80 7.81 Cable dB 7.80	Pream dB 37.26 37.26 Preamp dB	p Aux dB 20.00 20.00	Level dBuV/m 47.36 48.19 Level dBuV/m 41.28	Limit dBuV/ 74.00 74.00 Limit dBuV/m 54.00	m limi -26.64 -25.81 Over limit	Remark t Peak Peak Remark

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Туре		802.11	1g	Test cl	hannel	CH	101	P	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	30.77	27.96	7.30	37.56	20.00	48.47	74.00	-25.53	Peak
	2	2390.01	28.93	27.72	7.72	37.45	20.00	46.92	74.00	-27.08	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	22.98	27.96	7.30	37.56	20.00	40.68	54.00 -	13.32	Average
	2	2390.01	22.23	27.72	7.72	37.45	20,00	40.22	54.00	13.78	Average
Туре		802.11	1g	Test c	hannel	CH	101	P	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over	Remark
	1	2310.00	30.10	27.96	7.30	37.56	20.00	47.80	74.00	-26.20	Peak
	2	2390.01	29.41	27.72	7.72	37.45	20.00	47.40	74.00	-26.60	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	23.05	27.96	7.30	37.56	20.00	40.75	54.00	-13.25	Average
	2	2390.01	21.42	27.72	7.72	37.45	20.00			-14.59	Average

Туре		802.1	1g	Test c	hannel	CH	111	P	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over	
	1	2483.49	30.24	27.43	7.80	37.26	20.00	48.21	74.00 -25.79	9 Peak
	2	2500.00	30.36	27.40	7.81	37.26	20.00	48.31	74.00 -25.69	9 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2483.49	21.73	27.43	7.80	37.26	20.00	39.70	54.00 -14.30	Average
	2	2500.00	22.79	27.40	7.81	37.26	20.00	40.74	54.00 -13.26	Average
Туре		802.1	1g	Test c	hannel	CH	111	Р	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over	
	1	2483.49	29.77	27.43	7.80	37.26	20.00	47.74	74.00 -26.26	Peak
	2	2500.00	30.20	27.40	7.81	37.26	20.00	48.15	74.00 -25.85	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2483.49	23.73	27.43	7.80	37.26	20.00	41.70	54.00 -12.30	Average
	2	2500.00	23.22	27.40	7.81	37.26	20.00	41 17	54.00 -12.83	Average

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Туре		802.1	1n(HT20)	Test ch	nannel	СН	01	P	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1	2310.00	30.85	27.96	7.30	37.56	20.00 48.	48.55	74.00 -25.4	5 Peak
	2	2390.01	28.91	27.72	7.72	37.45	20.00	46.90	74.00 -27.1	0 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2310.00	22.67	27.96	7.30	37.56	20.00	40.37	54.00 -13.63	Average
	2	2390.01	21.28	27.72	7.72	37.45	20.00	39.27	54.00 -14.73	Average
Туре		802.11	1n(HT20)	Test ch	nannel	СН	01	P	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit Over	
	1	2310.00	28.79	27.96	7.30	37.56	20.00	46.49	74.00 -27.51	Peak
	2	2390.01	27.75	27.72	7.72	37.45	20.00	45.74	74.00 -28.26	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2310.00	22.73	27.96	7.30	37.56	20.00	40.43	54.00 -13.57	Average
	2	2390.01	22.59	27.72	7.72	37.45	20.00	40 58	54.00 -13.42	Average

Туре		802.1	1n(HT20)	Test c	hannel	CH	111	P	olarity		Horizontal
_	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	Remark
	1	2483.49	27.80	27.43	7.80	37.26	20.00	45.77	74.00 -	28.23	Peak
	2	2500.00	28.88	27.40	7.81	37.26	20.00	46.83	74.00 -	27.17	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		Over limit	Remark
	1	2483.49	22.35	27.43	7.80	37.26	20.00	40.32	54.00 -1	3.68	Average
	2	2500.00	21.61	27.40	7.81	37.26	20.00	39.56	54.00 -1	4.44	Average
Туре		802.1	1n(HT20)	Test c	hannel	CH	H11	Р	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	29.50	27.43	7.80	37.26	20.00	47.47		26.53	Peak
	2	2500.00	29.39	27.40	7.81	37.26	20.00	47.34	74.00 -	26.66	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		Over limit	Remark
	1	2483.49	21.75	27.43	7.80	37.26	20.00	39.72	54.00 -1	4.28	Average
					7.81	37.26			54.00 -1	3.97	0

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# 5.10. Radiated Spurious Emission

### **LIMIT**

### FCC CFR Title 47 Part 15 Subpart C Section 15.209

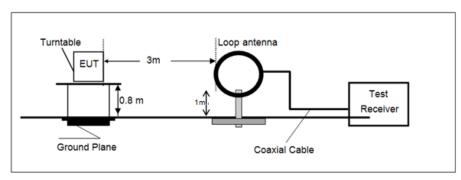
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40\*log(300/3)= Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40\*log(30/3)= Limit dBuV/m @30m + 40.

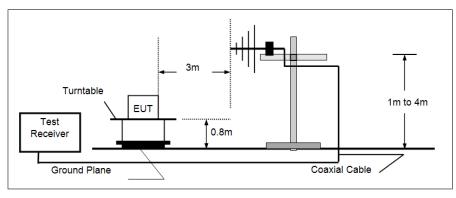
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

## **TEST CONFIGURATION**

#### → 9 kHz ~ 30 MHz

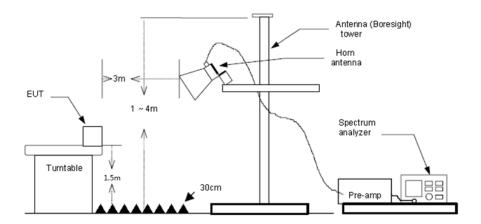


### > 30 MHz ~ 1 GHz



Above 1 GHz

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#### **TEST PROCEDURE**

- The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings
  - a) Span shall wide enough to fully capture the emission being measured;
  - b) Below 1 GHz:
    - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
    - If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

#### TEST MODE

Please refer to the clause 4.2

#### TEST RESULT

#### Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

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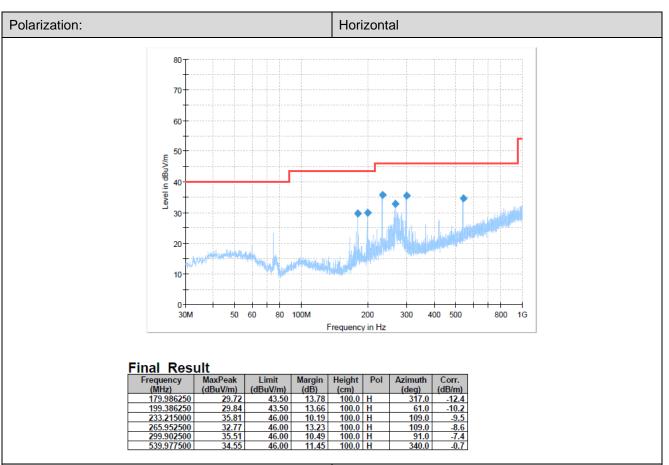
### For 9 kHz ~ 30 MHz

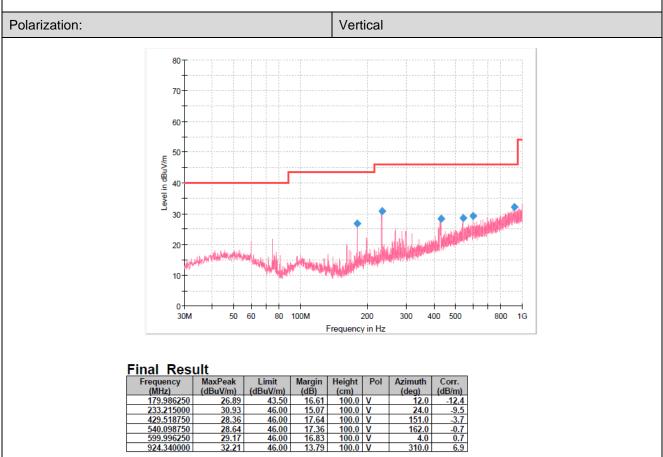
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

### For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

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# For 1 GHz ~ 25 GHz

Туре			802.11	lb	Test c	hannel		CHO	)1		Ро	larity		Horizontal	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pre dB		Aux dB	Level dBuV/r		Limit dBuV/m	Over limit	Remark	
	1	1346	.93	33.74	26.28	5.48	36.4	2	0.00	29.08		74.00	-44.92	Peak	
	2	3192	. 37	33.40	28.92	8.72	37.0	1	0.00	34.03		74.00	-39.97	Peak	
	3	5125	.52	30.07	32.10	11.45	35.4	6	0.00	38.16		74.00	-35.84	Peak	
	4	7880	.77	29.49	36.72	14.54	33.3	1	0.00	47.44		74.00	-26.56	Peak	
Туре			802.11	lb	Test o	hannel		CHO	)1		Ро	larity		Vertical	
	Mark		quency	Reading dBuV/m	Antenna dB	Cable dB	Pre	eamp	Aux	Leve:		Limit dBuV/m	Over limi		
	1	1232		34.35	25.79	5.20	36.5		0.00	28.77	The state of	74.00	-45.23		
	2	3644		32.19	29.40	9.96	37.6		0.00	34.54		74.00	-39.46		
	3	5732		30.05	31.90	12.41	34.8		0.00	39.51		74.00	-34.49		
	4														
	4	8063	.40	29.74	37.20	14.28	33.3	52	0.00	47.90		74.00	-26.10	Peak	
Туре			802.11	lb	Test o	hannel		CHO	)6		Po	larity		Horizontal	
	Mark	Fre	equency	Reading	Antenna	Cable	Pr	eamp	Aux	Leve	1	Limit	Over	Remark	
		- 1	MHz	dBuV/m	dB	dB	d	В	dB	dBuV,	/m	dBuV/n	n limi	t	
	1	1319	9.78	32.82	26.12	5.44	36.	34	0.00	28.04		74.00	-45.96	Peak	
	2	365	3.46	31.52	29.40	9.93	37.	02	0.00	33.83		74.00	-40.17	Peak	
	3		7.83	30.95	32.19	11.50	35.		0.00	39.27		74.00	-34.73	Peak	
	4		5.22	29.18	37.10	14.36	33.		0.00	47.28		74.00	-26.72		
Туре			802.11	lb	Test o	hannel		CHO	)6		Ро	larity		Vertical	
	Mark		quency	Reading	Antenna			amp	Aux	Level		Limit	Over	Remark	
		P	Hz	dBuV/m	dB	dB	dB	3	dB	dBuV/	m	dBuV/m	limit	1000000	
	1	1385	Hz .18	dBuV/m 32.73	dB 26.16	dB 5.52	dB 36.5	1	dB 0.00	dBuV/ 27.90	m	dBuV/m 74.00	limit -46.10	Peak	
		P	Hz .18	dBuV/m	dB	dB	dB	1	dB	dBuV/	m	dBuV/m	limit	1000000	
	1	1385	Hz .18 .94	dBuV/m 32.73	dB 26.16	dB 5.52	dB 36.5	3 51 59	dB 0.00	dBuV/ 27.90	m	dBuV/m 74.00	limit -46.10	Peak	
	1 2	1385 3436	Hz .18 .94 ).69	dBuV/m 32.73 32.47	dB 26.16 28.82	dB 5.52 9.29	dB 36.5 36.5	31 59 11	dB 0.00 0.00	dBuV/ 27.90 33.99	m	dBuV/m 74.00 74.00	limit -46.10 -40.01	Peak Peak	
Туре	1 2 3	1385 3436 5060	Hz .18 .94 ).69	dBuV/m 32.73 32.47 29.66 29.45	dB 26.16 28.82 32.20 36.39	dB 5.52 9.29 11.48	36.5 36.5 35.4	31 59 11	dB 0.00 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93	m	dBuV/m 74.00 74.00 74.00	limit -46.10 -40.01 -36.07	Peak Peak Peak	
Туре	1 2 3 4	1385 3436 5060 7604	Hz .18 .94 .69 .87	dBuV/m 32.73 32.47 29.66 29.45	dB 26.16 28.82 32.20 36.39	dB 5.52 9.29 11.48 14.67	dB 36.5 36.5 35.4 33.1	61 69 41 9 CH1	dB 0.00 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93	Po	dBuV/m 74.00 74.00 74.00 74.00	limit -46.10 -40.01 -36.07	Peak Peak Peak Peak	
Туре	1 2 3 4	1385 3436 5060 7604	Hz i.18 i.94 i.69 i.87	dBuV/m 32.73 32.47 29.66 29.45	dB 26.16 28.82 32.20 36.39	dB 5.52 9.29 11.48 14.67	dB 36.5 36.5 35.4 33.1	61 69 11 9 CH1	dB 0.00 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32	Po	dBuV/m 74.00 74.00 74.00 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68	Peak Peak Peak Peak Horizontal	
Туре	1 2 3 4	1385 3436 5060 7604	1Hz 5.18 5.94 9.69 5.87 802.1	dBuV/m 32.73 32.47 29.66 29.45	dB 26.16 28.82 32.20 36.39 Test c	dB 5.52 9.29 11.48 14.67 channel	dB 36.5 36.5 35.4 33.1	61 69 41 9 CH1 eamp	dB 0.00 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level	Po	dBuV/m 74.00 74.00 74.00 74.00 74.00 larity	limit -46.10 -40.01 -36.07 -26.68	Peak Peak Peak Peak Horizontal	
Туре	1 2 3 4 Mark	Pre-N 1457	802.11 802.11	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66	dB 26.16 28.82 32.20 36.39 Test C	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67	dB 36.5 36.5 35.4 33.1 Pre dE 36.7	CH1	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61	Po	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39	Peak Peak Peak Horizontal Remark Peak	
Туре	1 2 3 4 Mark	Pre 1385 3436 5060 7604 Fre N 1457 3057	802.17 802.17	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79	dB 26.16 28.82 32.20 36.39 Test of Antenna dB 26.07 28.83	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5	CH1 eamp 3 79	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62	Po	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38	Peak Peak Peak Horizontal Remark t Peak Peak	
Туре	1 2 3 4 Mark	Pre-N 1457	802.17 equency Hz 1.52 1.7 i.92	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66	dB 26.16 28.82 32.20 36.39 Test C	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67	dB 36.5 36.5 35.4 33.1 Pre dE 36.7	CH1 eamp 379 555 37	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61	Po	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39	Peak Peak Peak Horizontal Remark Peak	
Type	1 2 3 4 Mark 1 2 3	Fre N 1457 5776	802.17 equency Hz 1.52 1.92	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01	dB 26.16 28.82 32.20 36.39 Test of Antenna dB 26.07 28.83 31.95 37.19	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5 34.8 33.3	CH1 eamp 379 555 37	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46	Po L	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54	Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak	
	1 2 3 4 Mark 1 2 3 4	Fre N 1457 3057 5776 8042	802.17 802.17 802.17 802.17 802.17 802.17 802.17	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01	dB 26.16 28.82 32.20 36.39  Test C  Antenna dB 26.07 28.83 31.95 37.19  Test C	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5 34.8 33.3	CH1 eamp 3 79 55 87 81 CH1	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17	Po	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Vertical	
	1 2 3 4 Mark 1 2 3 4	Free N 1457 3057 5776 8042	802.17 802.17 802.17 802.17 802.17 802.17 802.17	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01	dB 26.16 28.82 32.20 36.39  Test of the control of	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28 channel	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5 34.8 33.3	CH1 eamp 3 79 55 87 81 CH1	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17	Po Po 1	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 74.00 larity Limit	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54 -25.83	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea	
	1 2 3 4 Mark 1 2 3 4	Fre N 1457 5776 8042	802.17 802.17 802.17 802.17 802.17 802.17 802.17 802.17	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01 Ib	dB 26.16 28.82 32.20 36.39  Test C  Antenna dB 26.07 28.83 31.95 37.19  Test C  Antenna dB	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28 channel	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5 34.8 33.3	CH1 eamp CH1 cH1 cH1	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 1	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17	Po Po l	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 larity Limit dBuV/m	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54 -25.83	Peak Peak Peak Peak Peak Peak Peak Peak	
	1 2 3 4 Mark 1 2 3 4 Mark 1	Fre N 1457 3057 5776 8042	802.17 802.17 802.17 802.17 802.17 8.92 802.17 equency Hz	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01 Ib Reading dBuV/m 32.90	dB 26.16 28.82 32.20 36.39  Test C  Antenna dB 26.07 28.83 31.95 37.19  Test C  Antenna dB 26.00	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28 channel Cable dB 5.42	dB 36.5 36.5 35.4 33.1 Pre dE 36.7 37.5 34.8 33.3	CH1 eamp B CH1 eamp B 29	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 1	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17 Level dBuV/ 28.03	Po Po Po	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54 -25.83 Over limit -45.97	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea	
	1 2 3 4 Mark 1 2 3 4 Mark 1 2	Free N 1457 5776 8042	802.11 802.11 802.11 802.11 802.11 802.11 802.11	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01 Ib Reading dBuV/m 32.90 32.66	dB 26.16 28.82 32.20 36.39  Test of Antenna dB 26.07 28.83 31.95 37.19  Test of Antenna dB 26.00 29.32	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28 channel Cable dB 5.42 9.87	dB 36.5 36.5 35.4 33.1 Pre dB 36.7 37.5 34.8 33.3	CH1 eamp 8 79 55 37 31 CH1 eamp 8 29 83	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17 Level dBuV/ 28.03 35.02	Po l Po l l /m	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 larity Limit dBuV/n 74.00 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54 -25.83 Over limit -45.97 -38.98	Peak Peak Peak Peak Peak Peak Peak Peak	
	1 2 3 4 Mark 1 2 3 4 Mark 1 2	Free N 1457 3057 5776 8042 Free N 1299 3561 4871	802.17 802.17 802.17 802.17 802.17 802.17 802.17 802.17 802.17	dBuV/m 32.73 32.47 29.66 29.45 Ib Reading dBuV/m 33.66 33.79 31.06 30.01 Ib Reading dBuV/m 32.90	dB 26.16 28.82 32.20 36.39  Test of Antenna dB 26.07 28.83 31.95 37.19  Test of Antenna dB 26.00 29.32	dB 5.52 9.29 11.48 14.67 channel Cable dB 5.67 8.55 12.32 14.28 channel Cable dB 5.42 9.87	dB 36.5 36.5 35.4 33.1 Predi 36.3 34.8 33.3	CH1 eamp 379 55 37 31 CH1 eamp B 29 83 16	dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 27.90 33.99 37.93 47.32 Level dBuV/ 28.61 33.62 40.46 48.17 Level dBuV/ 28.03 35.02	Po l	dBuV/m 74.00 74.00 74.00 74.00 larity Limit dBuV/m 74.00 74.00 74.00 larity Limit dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limit -46.10 -40.01 -36.07 -26.68 Over limit -45.39 -40.38 -33.54 -25.83 Over limit -45.97 -38.98	Peak Peak Peak Peak Peak Peak Peak Peak	

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Туре			802.11	g	Test c	hannel		CHO	)1		Polarity		Horizontal
	Mark		equency /Hz	Reading dBuV/m	Antenna dB	Cable dB	Pr		Aux dB	Level dBuV/		Over limit	Remark
	1	150	5.56	33.18	25.85	5.78	36.	84	0.00	27.97	74.00	-46.03	Peak
	2	364	1.18	32.59	29.40	9.96	37.	01	0.00	34.94	74.00	-39.06	Peak
	3	5666	0.47	29.42	31.90	12.47	34.	98	0.00	38.81	74.00	-35.19	Peak
	4	8334	1.70	30.45	36.50	14.68	33.	68	0.00	47.95	74.00	-26.05	Peak
Туре			802.11	g	Test c	hannel		CHO	)1		Polarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pr	eamp B	Aux dB	Level dBuV/		Over n limi	Remark t
	1	1316	.42	33.48	26.10	5.44	36.	34	0.00	28.68	74.00	-45.32	Peak
	2	3700	.26	33.06	29.40	9.79	37.	05	0.00	35.20	74.00	-38.80	Peak
	3	4971	.32	29.62	31.67	11.55	35.	21	0.00	37.63	74.00	-36.37	Peak
	4 7981.72		.72	29.80	37.03	14.35	33.	31	0.00	47.87	74.00	-26.13	Peak
Туре	802.11g			g	Test c	hannel		CHO	06		Polarity		Horizontal
	Mark	Fr	equency	Reading	Antenna			eamp	Aux	Level		Over	Remark
			4Hz	dBuV/m	dB	dB		B	dB	dBuV/			
	1		3.17	33.51	25.99	5.40	36.		0.00	28.58	74.00	-45.42	Peak
	2		3.08	33.07	28.96	8.70	37.		0.00	33.61	74.00	-40.39	Peak
	3		3.69	30.56	32.20	11.48	35.		0.00	38.83	74.00	-35.17	Peak
	4	804	2.90	29.71	37.19	14.28	33.	31	0.00	47.87	74.00	-26.13	Peak
Туре			802.11	g	Test c	hannel		CHO	06		Polarity		Vertical
	Mark		quency	_				eamp	Aux	Level			
			Hz	dBuV/m	dB	dB		В	dB	dBuV/	100 March 100 Ma		
	1	1267		33.30	25.93	5.31	36.		0.00	28.11	74.00		
	2	3700		33.40	29.40	9.79	37.		0.00	35.54	74.00		
	3	5138		30.68	32.05	11.46	35.		0.00	38.74	74.00		
	4 8950.44		.44	30.33	37.80	15.23	35.	70	0.00	47.66	74.00	-26.34	Peak
Гуре			802.11	g	Test c	hannel		CH1	11		Polarity		Horizontal
	Mark		equency	Reading				reamp		Leve:			
	_		4Hz	dBuV/m	dB	dB		dB	dB	dBuV,			
	1		9.77	33.30	26.00	5.42		. 29	0.00		74.00		
	2		9.10	34.35	28.44	9.10		.93	0.00		74.00		
	3		5.52	30.84	32.20	11.45		.46	0.00		74.00		
	4	804	2.90	29.71	37.19	14.28	33.	. 31	0.00	47.87	74.00	-26.13	3 Peak
Туре			802.11	g	Test c	hannel		CH1	11		Polarity		Vertical
	Mark		quency		Antenna				Aux	Level	Limit	Over	Remark
	11		Hz	dBuV/m	dB	dB	dB		dB	dBuV/m		limit	12.0
	1	1329		33.02	26.18		36.3		0.00	28.29		-45.71	Peak
		363/	.91	32.36	29.40	9.99	37.0	10	0.00	34.75	74.00	-39.25	Peak
	2												
	3 4	5066 8042	.69	30.20	32.20	11.48 14.28	35.4		0.00	38.47		-35.53 -26.52	Peak Peak

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Туре		802.1	1n(HT20)	Test cl	hannel	CHO	)1		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/r	Limit Over	
	1	1153.21	35.54	25.41	5.04	36.76	0.00	29.23	74.00 -44.77	7 Peak
	2	3120.06	33.47	29.00	8.64	37.33	0.00	33.78	74.00 -40.22	
	3	4809.50	29.99	31.40	11.52	35.28	0.00	37.63	74.00 -36.37	
	4	8042.90	29.92	37.19	14.28	33.31	0.00	48.08	74.00 -25.92	Peak
Туре		802.1	1n(HT20)	Test cl	hannel	CHO	)1		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/n	Limit Over dBuV/m limi	
	1	1289.89	33.54	25.98	5.39	36.33	0.00	28.58	74.00 -45.42	Peak
	2	3299.78	32.61	28.50	9.02	36.82	0.00	33.31	74.00 -40.69	Peak
	3	5022.19	30.05	32.03	11.54	35.30	0.00	38.32	74.00 -35.68	Peak
	4	8022.46	29.22	37.14	14.29	33.31	0.00	47.34	74.00 -26.66	Peak
Туре		802.1	1n(HT20)	Test cl	hannel	CHO	)6		Polarity	Horizontal
Ì	Mark	Frequency		Antenna		Preamp	Aux	Level		
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/		
	1	1303.09	33.75	26.02	5.42	36.30	0.00	28.89	74.00 -45.1	
	2	3176.16	33.62	28.95	8.70	37.09	0.00	34.18	74.00 -39.8	
	3	4760.78	29.99	31.40	11.36	35.47	0.00	37.28	74.00 -36.7	
	4	7527.83	30.44	36.54	14.27	33.72	0.00	47.53	74.00 -26.4	7 Peak
Туре		802.1	1n(HT20)	Test cl	hannel	CHO	)6		Polarity	Vertical
	Mark	r www.wheelowern	Reading		C-1-1-				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		Frequency		Antenna			Aux	Level		
	2	MHz	dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m lim	it
	1	MHz 1286.61	dBuV/m 33.77	dB 25.97	dB 5.38	dB 36.35	dB 0.00	dBuV/ 28.77	m dBuV/m lim 74.00 -45.2	it 3 Pea <mark>k</mark>
	2	MHz 1286.61 3200.50	dBuV/m 33.77 34.06	dB 25.97 28.90	dB 5.38 8.73	dB 36.35 36.98	dB 0.00 0.00	dBuV/ 28.77 34.71	m dBuV/m lim 74.00 -45.2 74.00 -39.2	it 3 Peak 9 Peak
	2	MHz 1286.61 3200.50 4933.50	dBuV/m 33.77 34.06 30.18	dB 25.97 28.90 31.47	dB 5.38 8.73 11.52	dB 36.35 36.98 35.20	dB 0.00 0.00 0.00	dBuV/ 28.77 34.71 37.97	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0	it 3 Peak 9 Pea <mark>k</mark> 3 Peak
	2	MHz 1286.61 3200.50	dBuV/m 33.77 34.06	dB 25.97 28.90	dB 5.38 8.73	dB 36.35 36.98	dB 0.00 0.00	dBuV/ 28.77 34.71	m dBuV/m lim 74.00 -45.2 74.00 -39.2	it 3 Peak 9 Pea <mark>k</mark> 3 Peak
Type	2	MHz 1286.61 3200.50 4933.50 8022.46	dBuV/m 33.77 34.06 30.18	dB 25.97 28.90 31.47	d8 5.38 8.73 11.52 14.29	dB 36.35 36.98 35.20	dB 0.00 0.00 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity	it 3 Peak 9 Pea <mark>k</mark> 3 Peak
Туре	2	MHz 1286.61 3200.50 4933.50 8022.46 802.1	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading	dB 25.97 28.90 31.47 37.14 Test Cl	dB 5.38 8.73 11.52 14.29 hannel	d8 36.35 36.98 35.20 33.31 CH <sup>2</sup>	dB 0.00 0.00 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity	it 3 Peak 9 Peak 3 Peak 9 Peak Horizontal Remark
Туре	2 3 4 Mark	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading dBuV/m	dB 25.97 28.90 31.47 37.14 Test Cl Antenna dB	dB 5.38 8.73 11.52 14.29 hannel Cable dB	dB 36.35 36.98 35.20 33.31 CH'	dB 0.00 0.00 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity Limit Over dBuV/m limi	Peak Peak Peak Peak Peak Horizontal Remark
Туре	2 3 4 Mark	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading dBuV/m 33.52	dB 25.97 28.90 31.47 37.14 Test Cl Antenna dB 26.30	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48	dB 36.35 36.98 35.20 33.31 CH <sup>2</sup> Preamp dB 36.42	dB 0.00 0.00 0.00 0.00 11 Aux dB 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity Limit Over dBuV/m limi 74.00 -45.12	Peak Peak Peak Peak Horizontal Remark Peak
Туре	2 3 4 Mark 1 2	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading dBuV/m 33.52 34.17	dB 25.97 28.90 31.47 37.14 Test Cl Antenna dB 26.30 29.00	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21	dB 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -39.37	Peak Peak Peak Horizontal Remark Peak Peak
Туре	2 3 4 Mark 1 2 3	MHz 1286.61 3200.50 4933.50 8022.46 8022.16 Frequency MHz 1350.36 3143.98 5022.19	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading dBuV/m 33.52 34.17 30.76	dB 25.97 28.90 31.47 37.14 Test Cl Antenna dB 26.30 29.00 32.03	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30	dB 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -39.37 74.00 -34.97	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak
	2 3 4 Mark 1 2	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72	dB 36.35 36.98 35.20 33.31 CH <sup>2</sup> Preamp dB 36.42 37.21 35.30 33.16	dB 0.00 0.00 0.00 0.00 0.00 dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -39.37 74.00 -34.97 74.00 -26.85	Peak Peak Horizontal Remark Peak Peak Peak
Type Type	2 3 4 Mark 1 2 3	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70	dBuV/m 33.77 34.06 30.18 29.29 1n(HT20) Reading dBuV/m 33.52 34.17 30.76	dB 25.97 28.90 31.47 37.14 Test Cl Antenna dB 26.30 29.00 32.03	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30	dB 0.00 0.00 0.00 0.00 0.00 dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -39.37 74.00 -34.97	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak
	2 3 4 Mark 1 2 3 4	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70 802.1	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22 In(HT20) Reading	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37 Test cl	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72 hannel	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30 33.16 CH'	dB 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -34.97 74.00 -26.85 Polarity  Limit Over	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
	2 3 4 Mark 1 2 3 4	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70 802.1 Frequency MHz	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22 In(HT20) Reading dBuV/m	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37 Test cl	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72 hannel	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30 33.16 CH'	dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over dBuV/m limi 74.00 -45.12 74.00 -39.37 74.00 -34.97 74.00 -26.85 Polarity  Limit Over dBuV/m limid Over dBuV/m limid Over	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
	2 3 4 4 Mark 1 2 3 4 Mark 1	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70 802.1 Frequency MHz 1309.74	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22 In(HT20) Reading dBuV/m 33.62	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37 Test cl Antenna dB 26.06	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72 hannel Cable dB	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30 33.16 CH'	dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15 Level dBuV/ 28.79	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -34.97 74.00 -26.85 Polarity  Limit Over dBuV/m limit Over dBuV/m limit Over m dBuV/m limit Over m dBuV/m limit Over	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
	2 3 4 4 Mark 1 2 3 4 4 Mark 1 2 2 3 4 4 Mark 1 2 2 3 4 4 Mark 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	MHz 1286.61 3200.50 4933.50 8022.46 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70 802.1 Frequency MHz 1309.74 3993.90	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22 In(HT20) Reading dBuV/m 33.62 33.69	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37 Test cl Antenna dB 26.06 29.90	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72 hannel Cable dB 5.43 10.17	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30 33.16 CH' Preamp dB 36.32 36.32	dB 0.00 0.00 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15 Level dBuV/ 28.79 37.39	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over dBuV/m limi 74.00 -45.12 74.00 -34.97 74.00 -26.85 Polarity  Limit Over dBuV/m limi 0.26.85	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
	2 3 4 4 Mark 1 2 3 4 Mark 1	MHz 1286.61 3200.50 4933.50 8022.46 802.1 Frequency MHz 1350.36 3143.98 5022.19 7682.70 802.1 Frequency MHz 1309.74	dBuV/m 33.77 34.06 30.18 29.29 In(HT20) Reading dBuV/m 33.52 34.17 30.76 29.22 In(HT20) Reading dBuV/m 33.62	dB 25.97 28.90 31.47 37.14 Test cl Antenna dB 26.30 29.00 32.03 36.37 Test cl Antenna dB 26.06	dB 5.38 8.73 11.52 14.29 hannel Cable dB 5.48 8.67 11.54 14.72 hannel Cable dB	dB 36.35 36.98 35.20 33.31 CH' Preamp dB 36.42 37.21 35.30 33.16 CH'	dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11 Aux dB 0.00 0.00	dBuV/ 28.77 34.71 37.97 47.41 Level dBuV/n 28.88 34.63 39.03 47.15 Level dBuV/ 28.79	m dBuV/m lim 74.00 -45.2 74.00 -39.2 74.00 -36.0 74.00 -26.5 Polarity  Limit Over 1 dBuV/m limi 74.00 -45.12 74.00 -34.97 74.00 -26.85 Polarity  Limit Over dBuV/m limit Over dBuV/m limit Over m dBuV/m limit Over m dBuV/m limit Over	Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea

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# 6. TEST SETUP PHOTOS

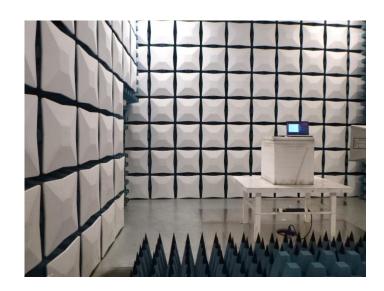
Radiated Emission



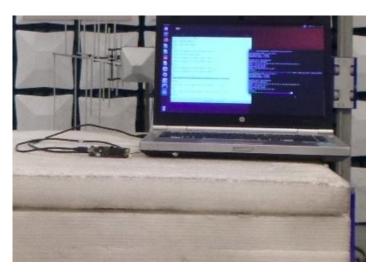




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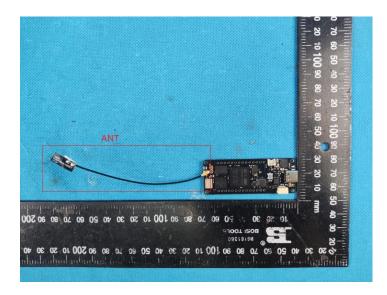
## AC Conducted Emission

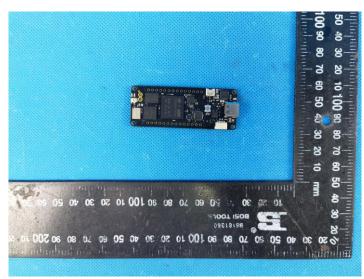


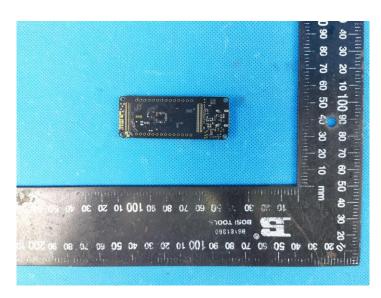
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# 7. EXTERNAL AND INTERNAL PHOTOS

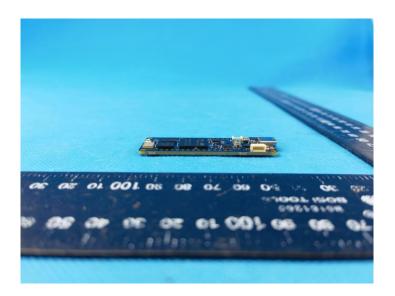
### **External Photos**

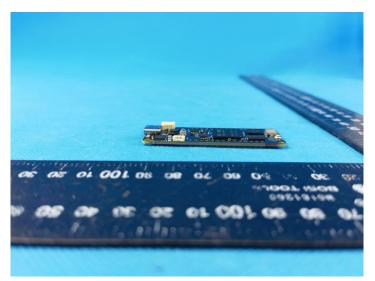


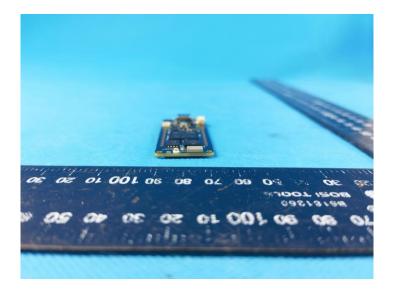




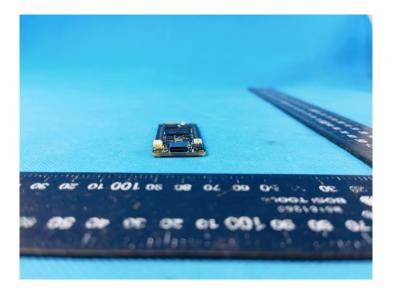
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### **Internal Photos**



# 8. APPENDIX REPORT