TEST REPORT

Report No.: CHTEW21030026 Report Verification:

Project No...... SHT2102011302EW

FCC ID.....: 2AN9S-ABX00023

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

20900 MONZA (Italy)

Test item description: MKR WiFi 1010

Trade Mark Arduino

Model/Type reference...... ABX00023

Listed Model(s)

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

Date of receipt of test sample........... Feb.24, 2021

Date of testing...... Feb.24, 2021- Mar.03, 2021

Date of issue...... Mar.04, 2021

Result.....: PASS

Compiled by

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Approved by

(Position+Printed name+Signature): RF Manager Hans Hu

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	2021-03-04	Original

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2. TEST DESCRIPTION

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

Note:

The measurement uncertainty is not included in the test result.

 ^{*1:} 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

Name of EUT:	MKR WiFi 1010
Trade Mark:	Arduino
Model No.:	ABX00023
Listed Model(s):	-
Power supply:	DC 5V
Hardware version:	2.0
Software version:	1.4.0

3.3. Radio Specification Description

Support type ^{*2} : 802.11b, 802.11g, 802.11n(HT20)	
Modulation:	DSSS for 802.11b
	OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz
Channel number:	11
Channel separation:	5MHz
Antenna type:	PIFA antenna
Antenna gain:	-3.20dBi

Note:

^{*2:} 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/802.11g/802.11n(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 test item:

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. 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:

Wheth	Whether support unit is used?				
✓ Yes					
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1	Laptop	DELL	Inspiron 13-5378	-	-
2					

4.5. Testing environmental condition

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

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

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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4.7. Equipment Used during the Test

•	Conducted Emission													
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	2020/10/19	2021/10/18							
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14							
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14							
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14							
•	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	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2020/05/27	2021/05/26
•	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	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	202105/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	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	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

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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

$oxed{oxed}$ Passed	☐ Not Applicable
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The antenna type is an PIFA 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

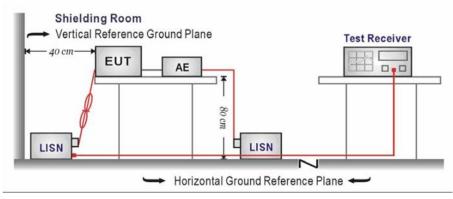
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rango (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					

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

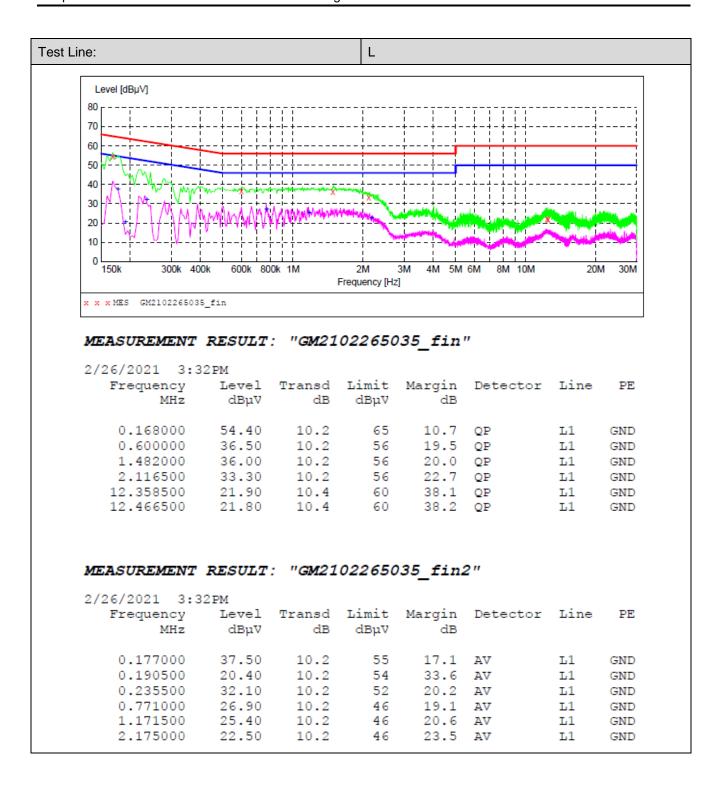
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from 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:

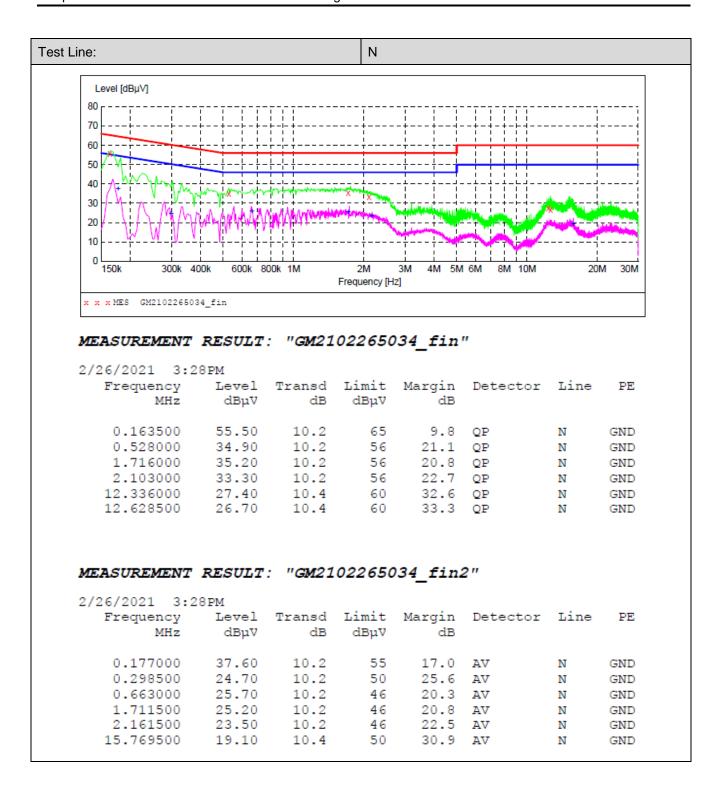
Please refer to the clause 4.2

TEST RESULT

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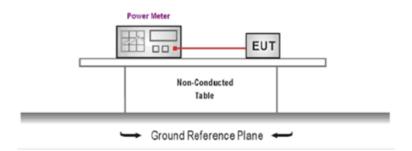
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5.3. Peak Output Power

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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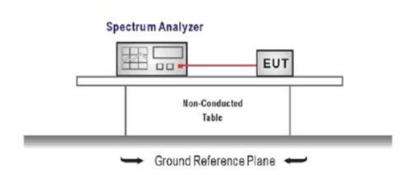
5.4. Power Spectral Density

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.
- 5. 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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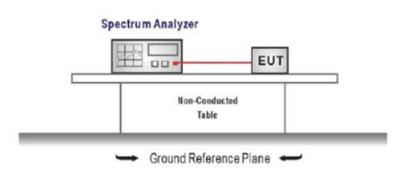
5.5. 6dB bandwidth

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

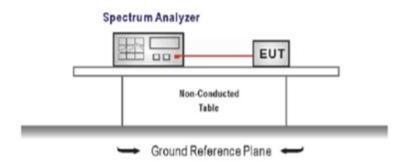
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5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 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%~5%OBW

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

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

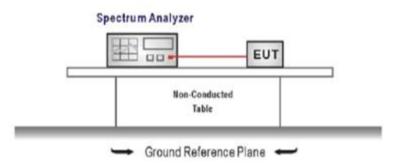
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5.7. Duty Cycle

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

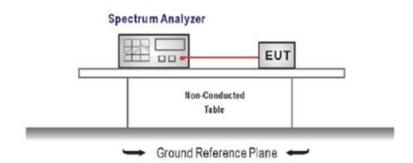
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5.8. Conducted Band edge and Spurious Emission

LIMIT

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 ≥ 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
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 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

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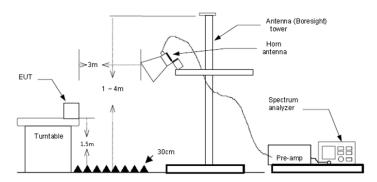
5.9. Radiated Band edge Emission

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.
- 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:

- Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) 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	1 01	F	Polarity		Horizontal
	Mark		Reading	Antenna	Cable			Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	32.64	27.96	7.30	37.56	20.00	50.34	74.00	-23.66	Peak
	2	2390.01	33.53	27.72	7.72	37.45	20.00	51.52	74.00	-22.48	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	26.29	27.96	7.30	37.56	20.00	43.99	54.00 -	10.01	Average
	2	2390.01	25.97	27.72	7.72	37.45	20.00	43.96	54.00 -	10.04	Average
Туре		802.1	1b	Test c	hannel	CH	1 01	F	Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	ı limi	t
	1	2310.00	33.14	27.96	7.30	37.56	20.00	50.84	74.00	-23.16	
	2	2390.01	32.98	27.72	7.72	37.45	20.00	50.97	74.00	-23.03	
	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	26.45	27.96	7.30	37.56	20.00	44.19	54.00	-9.85	Average
	2	2390.01	25.88	27.72	7.72	37.45	20.00	43.87	7 54.00 -	10.13	Average

Туре		802.1	1b	Test c	hannel	CH	111	P	olarity	Horizontal
	Mark	Frequency	Reading	Antenna	Cable			Level	27 1 1 10	ver Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	Lmit
	1	2483.49	31.50	27.43	7.80	37.26	20.00	49.47	74.00 -24.	53 Peak
	2	2500.00	31.86	27.40	7.81	37.26	20.00	49.81	74.00 -24.	19 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lim	it
	1	2483.49	24.63	27.43	7.80	37.26	20.00	42.60	54.00 -11.4	Ø Average
	2	2500.00	25.55	27.40	7.81	37.26	20.00	43.50	54.00 -10.5	0 Average
Туре		802.1	1b	Test c	hannel	CH	111	Р	olarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	mit
	1	2483.49	32.95	27.43	7.80	37.26	20.00	50.92	74.00 -23.	08 Peak
	2	2500.00	32.56	27.40	7.81	37.26	20.00	50.51	74.00 -23.	49 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	2483.49	24.90	27.43	7.80	37.26	20.00	42.87	54.00 -11.13	Average
	2	2500.00	25.20	27.40	7.81	37.26	20.00	42.15	54.00 -10.89	Average

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Type		802.1	1g	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	31.47	27.96	7.30	37.56	20.00	49.17	74.00	-24.83	Peak
	2	2390.01	33.68	27.72	7.72	37.45	20.00	51.67	74.00	-22.33	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	25.35	27.96	7.30	37.56	20.00	43.05	54.00	-10.95	Average
	2	2390.01	26.43	27.72	7.72	37.45	20.00	44.42	54.00	-9.58	Average
Туре		802.1	1g	Test c	hannel	CH	101	Р	olarity		Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over	Remark
	1	2310.00	32.47	27.96	7.30	37.56	20.00	50.17	74.00	-23.83	Peak
	2	2390.01	32.88	27.72	7.72	37.45	20.00	50.87	74.00	-23.13	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	25.98	27.96	7.30	37.56	20.00	43.68	54.00	-10.32	Average
	2	2390.01	26.29	27.72	7.72	37.45	20.00	44.28	54.00	-9.72	Average

Туре		802	.11g	Test o	hannel	CH	111	F	Polarity		Horizontal
	Mark	Frequency MHz	/ Reading	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.24	27.43	7.80	37.26	20.00	50.21	74.00 -	23.79	Peak
	2	2500.00	32.01	27.40	7.81	37.26	20.00	49.96	74.00 -	24.04	Peak
	Mark	Frequenc MHz	/ Reading	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		ver imit	Remark
	1	2483.49	25.00	27.43	7.80	37.26	20.00	42.97	54.00 -11	.03	Average
	2	2500.00	24.74	27.40	7.81	37.26	20.00	42.69	54.00 -11	.31	Average
Туре		802	.11g	Test c	hannel	CH	111	F	Polarity		Vertical
	Mark	Frequenc	y Reading dBuV/m	Antenna dB	Cable dB	Pream dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2483.49	33.03	27.43	7.80	37.26	20.00	51.00	74.00	-23.00	Peak
	2	2500.00	32.53	27.40	7.81	37.26	20.00	50.48	74.00	-23.52	Peak
	Mark	Frequenc	/ Reading	Antenna	Cable	Preamp	Aux	Level	Limit 0)ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m l	imit	
	1	2483.49	26.00	27.43	7.80	37.26	20.00	43.97	54.00 -10	.03	Average
	2	2500.00	25.28	27.40	7.81	37.26	20.00	43.23	54.00 -10	.77	Average

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Туре		8	302.11r	(HT20)	Test c	hannel	С	H01	F	Polarity		Horizontal
	Mark	Freque	ency F	Reading	Antenna	Cable	Pream	p Aux	Level	Limit		
		MHz	0	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/	m limi	t
	1	2310.00	0 3	80.80	27.96	7.30	37.56	20.00	48.50	74.00	-25.50) Peak
	2	2390.0	1 :	31.10	27.72	7.72	37.45	20.00	49.09	74.00	-24.91	Peak
	Mark	Freque	ency R	eading /	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	ď	BuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00) 2	5.16	27.96	7.30	37.56	20.00	42.8	54.00	-11.14	Average
	2	2390.01	. 2	5.38	27.72	7.72	37.45	20.00	43.3	7 54.00	-10.63	Average
Туре		8	302.11r	(HT20)	Test c	hannel	С	H01	F	Polarity		Vertical
	Mark	Frequ	ency I	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
		MHz		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/r	n limit	t
	1	2310.0	0 :	32.33	27.96	7.30	37.56	20.00	50.03	74.00	-23.97	Peak
	2	2390.0	1	32.31	27.72	7.72	37.45	20.00	50.30	74.00	-23.70	Peak
	Mark	Freque	-	eading / BuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	2	4.92	27.96	7.30	37.56	20.00	42.62	54.00	-11.38	Average
	2	2390.01	1 2	5.25	27.72	7.72	37.45	20.00	43.24	54.00	-10.76	Average

		002.1	1n(HT20)	Test c	hannel	С	H11	F	Polarity	Horizontal
	Mark	Frequency	Reading	Antenna		Pream	np Aux	Level		er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	n dBuV/m li	mit
	1	2483.49	32.48	27.43	7.80	37.26	20.00	50.45	74.00 -23.	55 Peak
	2	2500.00	31.90	27.40	7.81	37.26	20.00	49.85	74.00 -24.	15 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	2483.49	24.57	27.43	7.80	37.26	20.00	42.54	4 54.00 -11.46	Average
	2	2500.00	24.71	27.40	7.81	37.26	20.00	42.66	6 54.00 -11.34	Average
Туре		802.1	1n(HT20)	Test c	hannel	С	H11	ı	Polarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	mit
	1	2483.49	31.60	27.43	7.80	37.26	20.00	49.57	74.00 -24.	43 Peak
	2	2500.00	31.37	27.40	7.81	37.26	20.00	49.32	74.00 -24.	68 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB .	dB	dBuV/m	dBuV/m limit	t
	1	2483.49	24.97	27.43	7.80	37.26	20.00	42.94	54.00 -11.06	Average
	2	2500.00	24.93	27.40	7.81	37.26	20.00	42.88	54.00 -11.12	Average

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

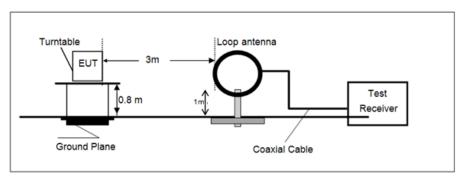
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

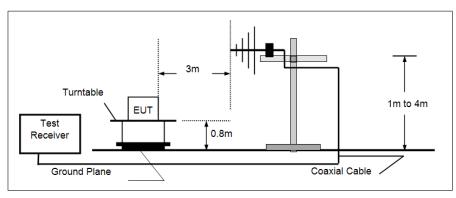
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 10Uz	54.00	Average
Above 1GHz	74.00	Peak

TEST CONFIGURATION

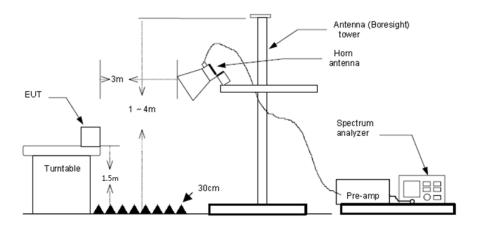
→ 9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz



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 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.

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

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TEST DATA 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.

TEST DATA 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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Polarization: Horizontal Level [dBµV/m] 50 40 30 20 10 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M 800M 1G Frequency [Hz] x x x MES GM2102266094_red MEASUREMENT RESULT: "GM2102266094 red" 2/26/2021 7:30PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency dB dBµV/m MHz dBµV/m dB cm deg 53.280000 18.70 -8.9 40.0 21.3 QP 300.0 73.00 HORIZONTAL 35.80 66.860000 -11.9 40.0 4.2 QP 300.0 196.00 HORIZONTAL 127.000000 24.70 -13.5 43.5 18.8 OP 98.00 HORIZONTAL 300.0 274.00 HORIZONTAL 241.460000 27.70 -8.9 46.0 18.3 QP 100.0 27.10 311.300000 -6.9 46.0 18.9 QP 100.0 201.00 HORIZONTAL 943.740000 35.50 10.5 QP 100.0 0.00 HORIZONTAL 7.6 46.0 Polarization: Vertical Level [dBµV/m] 40 30 10 30M 40M 50M 60M 70M 100M 200M 400M 500M 600M Frequency [Hz] x x x MES GM2102266093 red MEASUREMENT RESULT: "GM2102266093 red" 2/26/2021 7:26PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency MHz dBµV/m dB dBµV/m dΒ deg 100.0 279.00 VERTICAL 100.0 231.00 VERTICAL 21.70 -8.9 53.280000 40.0 18.3 QP 34.60 -11.9 66.860000 40.0 5.4 QP 128.940000 29.50 -13.5 43.5 14.0 QP 100.0 156.00 VERTICAL 194.900000 43.5 156.00 29.50 -10.3 14.0 QP 100.0 VERTICAL 28.10 -0.6 549.920000 17.9 QP 100.0 91.00 46.0 VERTICAL

35.20

7.5

46.0

10.8 QP

100.0

920.460000

265.00 VERTICAL

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TEST DATA FOR 1 GHz ~ 25 GHz

Туре			802.11	1b	Test c	hannel		CH0	1		Polarity		Horizontal	
	Mark		quency	Reading dBuV/m	Antenna dB	Cable dB	Pr	eamp B	Aux dB	Leve:				
	1	1309		34.13	26.06	5.43	36.		0.00	29.30	74.00		_	
	2	3216		35.36	28.83	8.78	36.		0.00	36.07				
	3	4821		38.19	31.40	11.52	35.		0.00	45.87				
	4				37.14	14.29	33.		0.00	48.25				
	4	8022	.40	30.13	5/.14	14.29	22.	21	0.00	40.25	74.00	-25./5	Peak	
Туре			802.11	1b	Test c	hannel		CH0	1		Polarity		Vertical	
	Mark	Fre	quency	Reading	Antenna	Cable	Pro	eamp	Aux	Leve:	l Limit	0ver	Remark	
			Hz	dBuV/m	dB	dB	di		dB	dBuV,	/m dBuV/	m limi	t	
	1	1267		34.14	25.93	5.31	36.4		0.00	28.95	74.00			
		3543		32.68	29.27	9.76	36.		0.00	34.93				
		4821		37.97	31.40	11.52	35.		0.00	45.65				
									0.00					
	4	7547	.01	31.31	36.51	14.38	33.	00	0.00	48.62	74.00	-25.38	8 Peak	
Туре			802.11	1b	Test c	hannel		CH0	6		Polarity		Horizontal	
	Mark	Fre	quency	Reading	Antenna	Cable	Pr	eamp	Aux	Leve!	l Limit	Over	Remark	
			lHz	dBuV/m	dB	dB	d		dB	dBuV/				
	1	1192	3 3 3 3 3	35.26	25.57	5.08	36.		0.00	29.26	74.00			
	2	3249		34.48	28.70	8.88	36.		0.00	35.19	74.00			
	3	4871	1	36.35	31.40	11.51	35.		0.00	44.10	74.00			
	4	8002	.06	30.68	37.10	14.29	33.	51	0.00	48.76	74.00	-25.24	Peak	
Type			002.44	16	Toot o	hannal		CH0	ie.		Polarity		\/ - ut! 1	
. ,,,,,			802.11	ID	rest c	hannel		CHO	О		Polarity		Vertical	
. , , , ,	Mark	Fre			Antenna		Pro	eamp	Aux	Leve	•	0ver		
. , , , ,	Mark		quency Hz				Pro	eamp		Leve:	l Limit		Remark	
. , , , ,		M	quency Hz	Reading dBuV/m	Antenna dB	Cable dB	di	eamp B	Aux dB	dBuV/	l Limit /m dBuV/	m limi	Remark t	
. , , , ,	1	M 1263	quency Hz .88	Reading dBuV/m 35.40	Antenna dB 25.93	Cable dB 5.30	di 36.4	eamp B 44	Aux dB 0.00	dBuV/ 30.19	l Limit /m dBuV/ 74.00	m limi -43.81	Remark t Peak	
. , , ,	1 2	M 1263 3249	quency Hz .88	Reading dBuV/m 35.40 37.12	Antenna dB 25.93 28.70	Cable dB 5.30 8.88	di 36.4 36.8	eamp B 44 87	Aux dB 0.00 0.00	dBuV/ 30.19 37.83	l Limit /m dBuV/ 74.00 74.00	m limi -43.81 -36.17	Remark t Peak Peak	
. , , ,	1 2 3	1263 3249 4871	quency Hz .88 .76	Reading dBuV/m 35.40 37.12 32.01	Antenna dB 25.93 28.70 31.40	Cable dB 5.30 8.88 11.51	36.4 36.3 35.3	eamp B 44 87	Aux dB 0.00 0.00	dBuV/ 30.19 37.83 39.76	l Limit /m dBuV/ 74.00 74.00 74.00	m limi -43.81 -36.17 -34.24	Remark t Peak Peak Peak	
. , , , ,	1 2	M 1263 3249	quency Hz .88 .76	Reading dBuV/m 35.40 37.12	Antenna dB 25.93 28.70	Cable dB 5.30 8.88	di 36.4 36.8	eamp B 44 87	Aux dB 0.00 0.00	dBuV/ 30.19 37.83	l Limit /m dBuV/ 74.00 74.00	m limi -43.81 -36.17 -34.24	Remark t Peak Peak Peak	
Туре	1 2 3	1263 3249 4871	quency Hz .88 .76	Reading dBuV/m 35.40 37.12 32.01 30.50	Antenna dB 25.93 28.70 31.40 37.10	Cable dB 5.30 8.88 11.51	36.4 36.3 35.3	eamp B 44 87	Aux dB 0.00 0.00 0.00 0.00	dBuV/ 30.19 37.83 39.76	l Limit /m dBuV/ 74.00 74.00 74.00	m limi -43.81 -36.17 -34.24	Remark t Peak Peak Peak	
	1 2 3	1263 3249 4871 8125	quency Hz .88 .76 .10 .22	Reading dBuV/m 35.40 37.12 32.01 30.50	Antenna dB 25.93 28.70 31.40 37.10 Test c	Cable dB 5.30 8.88 11.51 14.36	36.4 36.3 35.3 33.3	eamp B 44 87 16 36	Aux dB 0.00 0.00 0.00 0.00	dBuV/ 30.19 37.83 39.76 48.60	l Limit /m dBuV/r 74.00 74.00 74.00 74.00	m limi -43.81 -36.17 -34.24 -25.40	Remark t Peak Peak Peak Peak Horizontal	
	1 2 3 4	M 1263 3249 4871 8125	quency Hz .88 .76 .10 .22 802.11	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading	Antenna dB 25.93 28.70 31.40 37.10 Test C	Cable dB 5.30 8.88 11.51 14.36 hannel	di 36.4 36.3 35.3 33.3	eamp B 44 87 16 36 CH1	Aux dB 0.00 0.00 0.00 0.00	dBuV/ 30.19 37.83 39.76 48.60	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity Limit	m limi -43.81 -36.17 -34.24 -25.40	Remark t Peak Peak Peak Peak Horizontal	
	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre	quency Hz .88 .76 .10 .22 802.11	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m	Antenna dB 25.93 28.70 31.40 37.10 Test C	Cable dB 5.30 8.88 11.51 14.36 hannel	di 36.4 36.3 35.3 33.3	eamp B 44 87 16 36 CH1	Aux dB 0.00 0.00 0.00 0.00 1	dBuV/ 30.19 37.83 39.76 48.60 Level	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r	m limi -43.81 -36.17 -34.24 -25.40 Over m limi	Remark t Peak Peak Peak Peak Peak Remark	
	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre M 1251	quency Hz .88 .76 .10 .22 802.11 quency Hz .08	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18	Antenna dB 25.93 28.70 31.40 37.10 Test C	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26	di 36.4 36.3 35.3 33.3 Pre di 36.5	eamp B 44 87 16 36 CH1 eamp B	Aux dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r 74.00	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16	Remark t Peak Peak Peak Peak Horizontal Remark t Peak	
	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre M 1251 3176	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70	96.4 36.3 35.3 33.3 Predi 36.5 37.0	eamp B 44 87 16 36 CH1 eamp B 50	Aux dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r 74.00 74.00	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16 -39.74	Remark t Peak Peak Peak Peak Remark t Peak Peak Peak	
	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre M 1251 3176 5125	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71	Antenna dB 25.93 28.70 31.40 37.10 Test c Antenna dB 25.90 28.95 32.10	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45	Predi 36.5	eamp B 44 87 16 36 CH1 eamp B 50 09	Aux dB 0.00 0.00 0.00 1 Aux dB 0.00 0.00 0.00 0.00 0.00 0.00	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r 74.00 74.00 74.00 74.00	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16 -39.74 -34.20	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak	
	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre M 1251 3176	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45	96.4 36.3 35.3 33.3 Predi 36.5 37.0	eamp B 44 87 16 36 CH1 eamp B 50 09	Aux dB 0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r 74.00 74.00	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16 -39.74 -34.20	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak	
Туре	1 2 3 4 Mark	M 1263 3249 4871 8125 Fre M 1251 3176 5125	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34	Antenna dB 25.93 28.70 31.40 37.10 Test c Antenna dB 25.90 28.95 32.10	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72	di 36.4 36.3 35.3 33.3 Pre di 36.5 37.0 35.4	eamp B 44 87 16 36 CH1 eamp B 50 09	Aux dB 0.00 0.00 0.00 1 Aux dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80	l Limit /m dBuV/r 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/r 74.00 74.00 74.00 74.00	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16 -39.74 -34.20 -26.69	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak	
	1 2 3 4 Mark 1 2 3 4	Fre M 1251 3176 5125 7702	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52 .28	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel	Prodit 36.9 37.0 35.4 33.5	eamp B 44 87 16 36 CH1 eamp B 50 39 46 15 CH1	Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 0.00 0.00 1	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31	Polarity Limit /m dBuV// 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	0 Ver 1 imi -43.81 -36.17 -34.24 -25.40 0 ver 1 imi -44.16 -39.74 -34.20 -26.69	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3 4	Fre Fre Fre Fre Fre	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52 .28	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C Antenna	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel Cable	did 36.4.3533Prnc did 36.5.3335433	eamp B 44 87 16 36 CH1 eamp B 50 09 46 15 CH1	Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31	l Limit /m dBuV// 74.00 74.00 74.00 74.00 Polarity Limit /m dBuV// 74.00 74.00 74.00 74.00 74.00 Polarity Limit Limit	m limi -43.81 -36.17 -34.24 -25.40 Over m limi -44.16 -39.74 -34.20 -26.69	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Fre M 1263 3249 4871 8125 Fre M 1251 3176 5125 7702	quency Hz .88 .76 .10 .22 802.11 quency Hz .08 .16 .52 .28 802.11	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C Antenna dB	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel Cable dB	Production of the state of the	eamp B 44 87 16 36 CH1 eamp B 50 09 46 15 CH1 eamp B	Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 1 Aux dB	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31 Level dBuV/	Limit	0 Vern limi -43.81 -36.17 -34.24 -25.40 0ver limi -44.16 -39.74 -34.20 -26.69	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Fre M 1323	quency Hz .88 .76 .10 .22 802.11 quency Hz .28 802.11 quency Hz .14	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34 1b Reading dBuV/m 33.74	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C Antenna dB 26.14	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel Cable dB 5.45	Prodition 36.1 37.0 35.4 33 37.0 dt 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.	eamp B 44 87 16 36 CH1 eamp B 50 09 46 15 CH1 eamp B 35 55	Aux dB 0.00 0.00 1	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31 Level dBuV/ 28.98	Limit	0 Vern 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Vertical Remark t	
Туре	1 2 3 4 Mark 1 2 3 4	Fre M 1323 3283 3283	quency Hz .88 .76 .10 .22 802.17 quency Hz .28 802.17 quency Hz .14 .02	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34 1b Reading dBuV/m 33.74 36.26	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C Antenna dB 26.14 28.57	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel Cable dB 5.45 8.97	di 36.4 35.3 33.3 Prodi 36.5 37.6 35.4 33.3	eamp B 44 87 16 36 CH1 eamp B 50 09 46 15 CH1 eamp B 35 84	Aux dB 0.00 0.00 1 Aux dB 0.00 0.00 0.00 1	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31 Level dBuV/ 28.98 36.96	Limit MBuV/ 74.00 74.00	0 Vern 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remark t Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Vertical Remark t	
Туре	1 2 3 4 Mark 1 2 3 4	Fre M 1323	quency Hz .88 .76 .10 .22 802.17 quency Hz .28 802.17 quency Hz .14 .02 .37	Reading dBuV/m 35.40 37.12 32.01 30.50 1b Reading dBuV/m 35.18 33.70 31.71 29.34 1b Reading dBuV/m 33.74	Antenna dB 25.93 28.70 31.40 37.10 Test C Antenna dB 25.90 28.95 32.10 36.40 Test C Antenna dB 26.14	Cable dB 5.30 8.88 11.51 14.36 hannel Cable dB 5.26 8.70 11.45 14.72 hannel Cable dB 5.45	di 36.4 35.3 33.3 Prodi 36.3 37.4 33.3 Prodi 36.3 35.4 33.3	eamp B 44 87 16 36 CH1 eamp B 50 09 46 15 CH1 eamp B 35 84 17	Aux dB 0.00 0.00 1	dBuV/ 30.19 37.83 39.76 48.60 Level dBuV/ 29.84 34.26 39.80 47.31 Level dBuV/ 28.98 36.96 38.25	Limit MBuV/ 74.00 74.00	0 Vern 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remark t Peak Peak Peak Peak Peak t Peak Peak Peak Peak Peak Peak Peak Peak	

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Туре			802.1	1g	Test	hannel	CH)1		Polarity	Horizontal
	Mark		quency tz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over	
	1	1213	.44	35.19	25.68	5.14	36.63	0.00	29.38	74.00 -44.62	Peak
	2	3598	.09	32.85	29.40	10.09	36.93	0.00	35.41	74.00 -38.59	Peak
	3	4821	.76	35.25	31.40	11.52	35.24	0.00	42.93	74.00 -31.07	Peak
	4	8747	.72	30.04	37.70	15.48	34.79	0.00	48.43	74.00 -25.57	' Peak
Туре			802.1	1g	Test	hannel	CH)1		Polarity	Vertical
	Mark		quency	Reading				Aux	Level	Limit Over	
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/n		
	1	1228		36.15	25.78	5.19	36.58	0.00	30.54	74.00 -43.40	
	2	3216		37.19	28.83	8.78	36.90	0.00	37.90	74.00 -36.10	
	3	4821		34.92	31.40	11.52	35.24	0.00	42.60	74.00 -31.40	
	4	8725	.48	30.66	37.70	15.33	34.75	0.00	48.94	74.00 -25.00	5 Peak
Гуре			802.1	1g	Test	hannel	CH	06		Polarity	Horizontal
	Mark	Free	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
			1z	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	1267	.10	34.83	25.93	5.31	36.43	0.00	29.64	74.00 -44.36	Peak
	2	3249	.76	36.08	28.70	8.88	36.87	0.00	36.79	74.00 -37.21	Peak
	3	4871	.10	34.88	31.40	11.51	35.16	0.00	42.63	74.00 -31.37	Peak
	4	8022	.46	30.68	37.14	14.29	33.31	0.00	48.80	74.00 -25.20	Peak
Гуре			802.1	1g	Test	hannel	CHO	06		Polarity	Vertical
	Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		M	Hz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	1273	.57	33.78	25.95	5.34	36.40	0.00	28.67	74.00 -45.33	Peak
	2	3249	.76	35.30	28.70	8.88	36.87	0.00	36.01	74.00 -37.99	Peak
	3	4871	.10	29.91	31.40	11.51	35.16	0.00	37.66	74.00 -36.34	
	4	8063	.40	29.69	37.20	14.28	33.32	0.00	47.85	74.00 -26.15	Peak
уре			802.1	1g	Test	hannel	CH ²	11		Polarity	Horizontal
	Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		M	Hz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	it
	1	1263	.88	34.27	25.93	5.30	36.44	0.00	29.06	74.00 -44.94	Peak
	2	3552	.58	32.72	29.31	9.82	36.80	0.00	35.05	74.00 -38.95	Peak
	3	4920	.96	34.05	31.44	11.51	35.21	0.00	41.79	74.00 -32.21	l Peak
	4	8002	.06	30.91	37.10	14.29	33.31	0.00	48.99	74.00 -25.01	Peak
Гуре			802.1	1g	Test	hannel	CH	11		Polarity	Vertical
	Mark		quency	Reading			Preamp	Aux	Level		
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/		
			94	36.36	25.52	5.07	36.67	0.00	30.28	74.00 -43.7	2 Peak
	1	1179									
	1 2	3625		32.69	29.40	10.02	36.99	0.00	35.12	74.00 -38.8	8 Peak
			.67			10.02 11.56	36.99 35.22	0.00	35.12 41.61	74.00 -38.8 74.00 -32.3	

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Туре			802.1	1n(HT20)	Test	channel	СН	01		Polarity	Horizontal
	Mark	Fred	uency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		er Remark mit
	1	1283	34	34.63	25.97	5.37	36.36	0.00	29.61	74.00 -44.	39 Peak
	2	3634	91	32.17	29.40	9.99	37.00	0.00	34.56	74.00 -39.	44 Peak
	3	4834	.05	34.79	31.40	11.51	35.20	0.00	42.50	74.00 -31.	50 Peak
	4	7761	32	29.83	36.52	14.47	33.18	0.00	47.64	74.00 -26.	36 Peak
Туре			802.1	1n(HT20)	Test	channel	СН	01		Polarity	Vertical
	Mark		quency tz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/n	Limit Ove	
	1	1267	.10	34.72	25.93	5.31	36.43	0.00	29.53	74.00 -44.4	7 Peak
	2	3653	.46	33.71	29.40		37.02	0.00	36.02	74.00 -37.9	8 Peak
	3	4821	.76	32.62	31.40	11.52	35.24	0.00	40.30	74.00 -33.7	
	4	7981	.72	30.35	37.03	14.35	33.31	0.00	48.42	74.00 -25.5	8 Peak
Туре			802.1	1n(HT20)	Test	channel	СН	06		Polarity	Horizontal
	Mark	Free	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	er Remark
		MH		dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m lin	nit
	1	1251.	.08	34.77	25.90	5.26	36.50	0.00	29.43	74.00 -44.	57 Peak
	2	3249	76	33.76	28.70	8.88	36.87	0.00	34.47	74.00 -39.	53 Peak
	3	4883	52	33.20	31.40	11.50	35.18	0.00	40.92	74.00 -33.0	98 Peak
	4	7880	.77	31.03	36.72	14.54	33.31	0.00	48.98	74.00 -25.0	92 Peak
Туре			802.1	1n(HT20)	Test	channel	СН	06		Polarity	Vertical
	Mark	Free	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ov	er Remark
		M	1z	dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m li	mit
	1	1299	.77	34.25	26.00	5.42	36.29	0.00	29.38	74.00 -44.	62 Peak
	2	3249	.76	35.54	28.70	8.88	36.87	0.00	36.25	74.00 -37.	75 Peak
	3	5125	.52	31.44	32.10	11.45	35.46	0.00	39.53	74.00 -34.	47 Peak
	4	9228	.06	31.69	38.91	15.12	36.04	0.00	49.68	74.00 -24.	32 Peak
Туре			802.1	1n(HT20)	Test	channel	СН	11		Polarity	Horizontal
<u></u> _	Mark	Fre	quency	Reading	Antenna				Level		
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m li	mit
	1	1276		34.89	25.95	5.35	36.39	0.00	29.80	74.00 -44.	
		2202	.02	35.32	28.57	8.97	36.84	0.00	36.02	74.00 -37.	
	2					44 54	35.21	0.00	40.06	74.00 -33.	94 Peak
	3	4920		32.32	31.44	11.51					
				32.32 30.19	31.44 37.10	14.29	33.31	0.00	48.27	74.00 -25.	73 Peak
Туре	3	4920	.06		37.10			0.00	48.27	74.00 -25. Polarity	73 Peak Vertical
Туре	3 4	4920 8002	.06 802.1	30.19	37.10 Test of	14.29 channel Cable	33.31 CH Preamp	0.00 11 Aux	Level	Polarity Limit Ov	Vertical rer Remark
Туре	3 4	4920 8002 Free	802.1 quency	30.19 1n(HT20) Reading dBuV/m	Test of Antenna	channel Cable	33.31 CH Preamp dB	0.00 11 Aux dB	Level dBuV/	Polarity Limit Ov	Vertical ver Remark mit
Туре	3 4	4920 8002 Free	802.1 quency	30.19 1n(HT20) Reading dBuV/m 34.13	37.10 Test of	14.29 channel Cable	33.31 CH Preamp	0.00 11 Aux dB 0.00	Level dBuV/ 29.27	Polarity Limit Ov	Vertical ver Remark mit
Туре	3 4 Mark 1 2	4920 8002 Free Mi 1303 3283	.06 802.1 quency tz .09 .02	30.19 1n(HT20) Reading dBuV/m 34.13 36.34	Test of Antenna	channel Cable dB 5.42 8.97	33.31 CH Preamp dB 36.30 36.84	0.00 11 Aux dB 0.00 0.00	Level dBuV/ 29.27 37.04	Polarity Limit Ov m dBuV/m li 74.00 -44. 74.00 -36.	Vertical Fer Remark mit 73 Peak 96 Peak
Туре	3 4 Mark	4920 8002 Free Mi 1303	.06 802.1 quency 1z .09 .02	30.19 1n(HT20) Reading dBuV/m 34.13	Test of Antenna dB 26.02	channel Cable dB 5.42	33.31 CH Preamp dB 36.30 36.84 35.22	0.00 11 Aux dB 0.00	Level dBuV/ 29.27 37.04 39.71	Polarity Limit Ov m dBuV/m li 74.00 -44.	Vertical Ter Remark mit 73 Peak 96 Peak 29 Peak

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6. TEST SETUP PHOTOS

Radiated Emission







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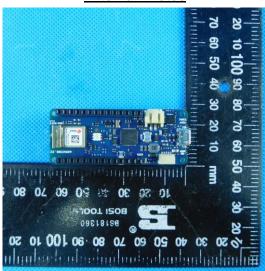
AC Conducted Emission

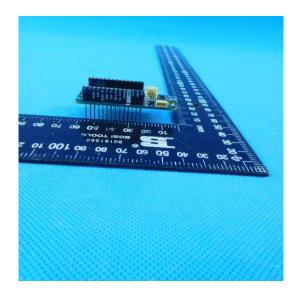


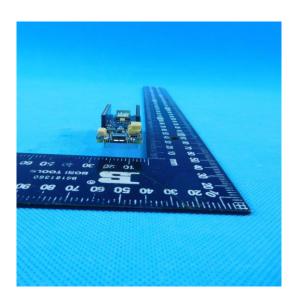
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7. EXTERANAL AND INTERNAL PHOTOS

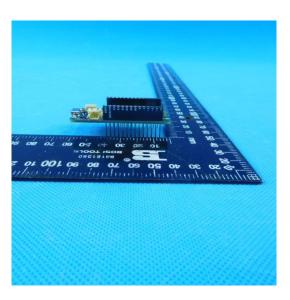
External Photos

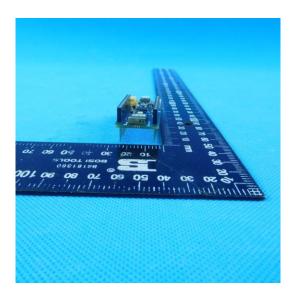


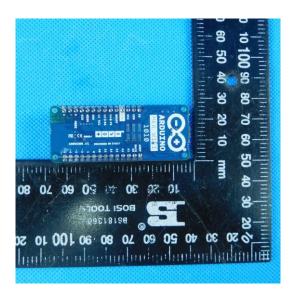




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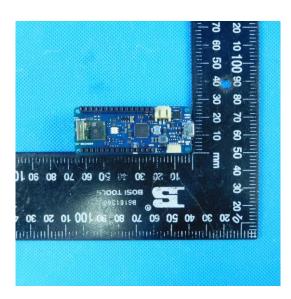






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Internal Photos





8. APPENDIX REPORT