Shenzhen Huatongwei International Inspection Co., Ltd.

1/F,Bldg 3,Hongfa Hi-tech Industrial Park,Genyu Road,Tianliao,Gongming,Shenzhen,China

Phone:86-755-26748019 Fax:86-755-26748089 http://www.szhtw.com.cn



TEST REPORT

Report No.:: CHTEW20090113 Report Verification:

Project No..... SHT2009005903EW

FCC ID.....:: ZSW-30-099

Applicant's name: b mobile HK Limited

Address..... Flat 18; 14/F Block 1; Golden Industrial Building; 16-26 Kwai Tak

Street; Kwai Chung; New Territories; Hong Kong

Manufacturer....: b mobile HK Limited

Address....: Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak

Street; Kwai Chung; New Territories; Hong Kong

Test item description: **Mobile Phone**

Trade Mark: **Bmobile**

Model/Type reference.....: AX754

AX754+ Listed Model(s)

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

Date of receipt of test sample..... Sep. 02, 2020

Date of testing..... Sep. 03, 2020- Sep. 17, 2020

Date of issue.....: Sep. 18, 2020

Result....: **PASS**

Compiled by

(Position+Printed name+Signature): File administrator Silvia Li

Supervised by

(Position+Printed name+Signature): Project Engineer Aaron Fang

Approved by

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

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

1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Address....:

Tianliao, Gongming, Shenzhen, China

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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	2020-09-18	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:	b mobile HK Limited
Address: Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Kwai Chung; New Territories; Hong Kong	
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong

3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	Bmobile
Model No.:	AX754
Listed Model(s):	AX754+
Power supply:	DC 3.8V
Hardware version:	Bmobile_AX754_HW_V001
Software version:	Bmobile_AX754_OM_LATAM_V001

3.3. Radio Specification Description

Support type*2:	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	1.0dBi

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		
	Туре	Accreditation Number	
	CNAS	L1225	
Qualifications	A2LA	3902.01	
	FCC	762235	
	Canada	5377A	

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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)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	. :	. :	· :
06	2437	06	2437
· :	. :	. :	· :
10	2457	08	2447
11	2462	09	2452

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
802.11n(HT40)	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?				
✓	✓ No				
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
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 Em	ission					
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	2019/10/26	2020/10/25
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2019/10/23	2020/10/22
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emiss	sion-6th test site					
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	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2020/04/28	2023/04/27
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 01	N/A	N/A	2020/05/27	2021/05/26
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emis	sion-7th test site	1				
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	2019/10/26	2020/10/25
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	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	2021/05/09
•	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	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
•	Power Meter	Anritsu	ML249A	N/A	2019/10/26	2020/10/25
0	Radio communication tester	R&S	CMW500	137688-Lv	2019/10/26	2020/10/25

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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

oxtimes Passed	☐ Not Applicable
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The antenna type is a 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

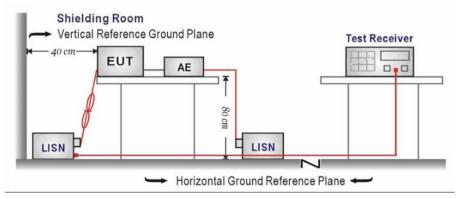
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rango (MHz)	Limit (d	BuV)
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

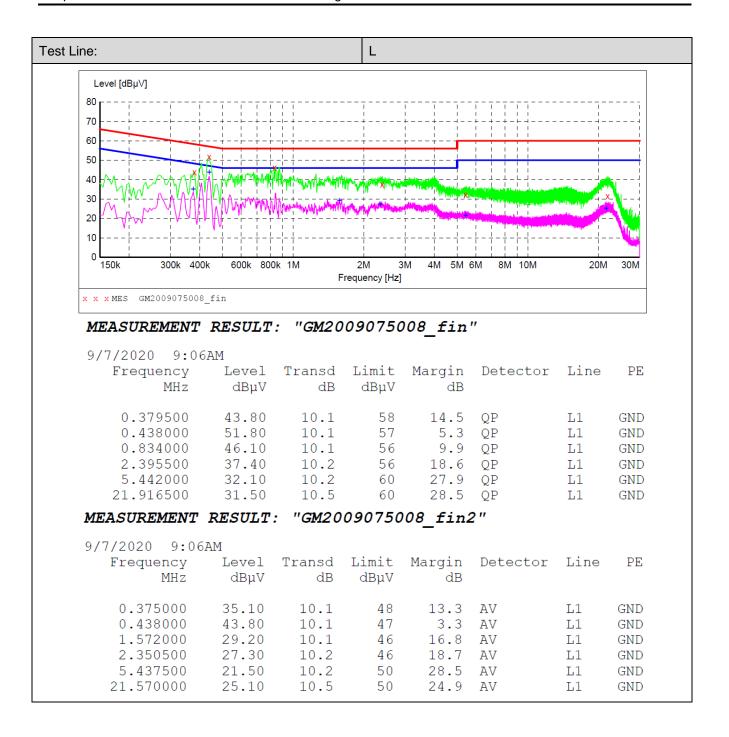
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any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

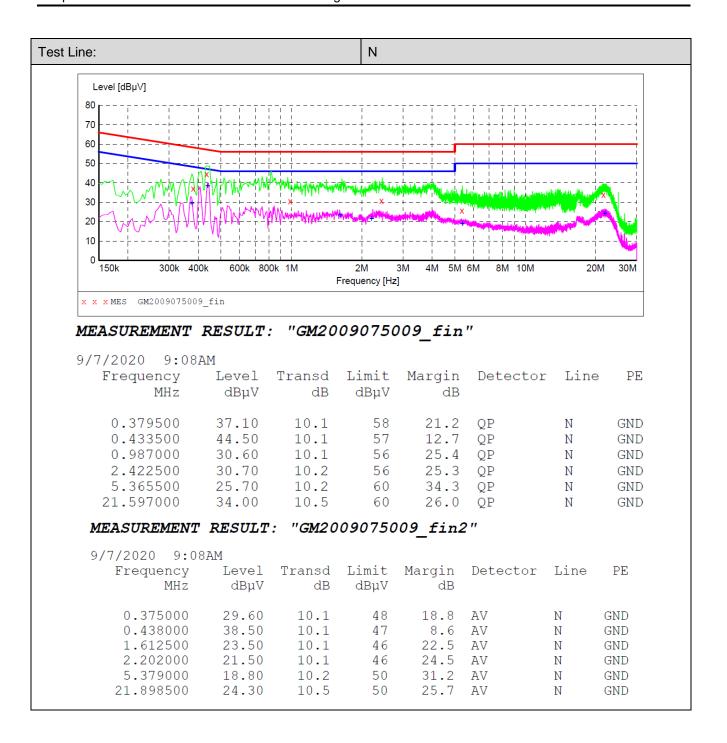
Please refer to the clause 4.2

TEST RESULT

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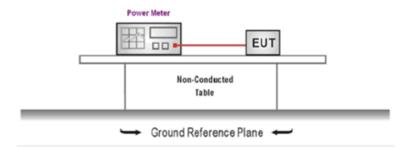
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5.3. Peak Output Power

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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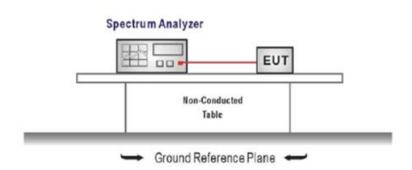
5.4. Power Spectral Density

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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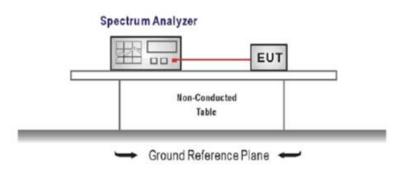
5.5. 6dB bandwidth

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

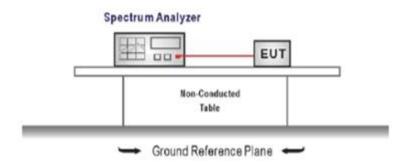
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5.6. 99% Occupied Bandwidth

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

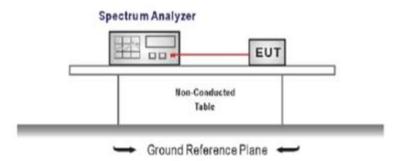
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5.7. Duty Cycle

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 \geq 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

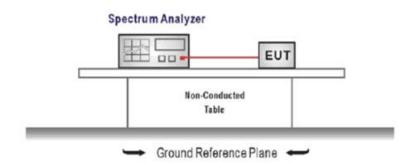
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5.8. Conducted Band edge and Spurious Emission

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.
- 5. 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 RESUL	Γ
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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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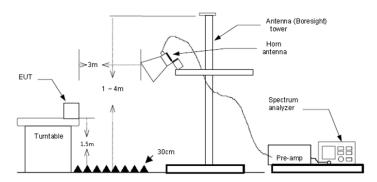
5.9. Radiated Band edge Emission

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) Margin = Limit Level
- 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	101	Р	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit Ove	
	1	2310.00	29.03	27.96	7.30	37.56	20.00	46.73	74.00 -27.2	
	2	2390.01	29.45	27.72	7.72	37.45	20.00	47.44	74.00 -26.5	6 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 2	2310.00 2390.01	21.26 21.05	27.96 27.72			20.00		54.00 -15.04 54.00 -14.96	Average Average
Туре	24%20	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 Over	
	1	2310.00	29.90	27.96	7.30	37.56	20.00	47.60	74.00 -26.40	9 Peak
	2	2390.01	30.03	27.72	7.72	37.45	20.00	48.02	74.00 -25.98	8 Peak
	Mark	Frequency		Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
	1	MHz 2310.00	dBuV/m 23.54	dB 27.96	dB 7.30	dB 37.56	dB 20.00	dBuV/m 41 24	dBuV/m limit 54.00 -12.76	Average
	2	2390.01		27.72			20.00		54.00 -12.97	Average

Туре		802.11	b	Test ch	annel	СН	11	Pol	arity	I	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	2483.49	21.76	777	100		20.00	The state of the s	54.00		Average
	2	(1) A (2) 图 (2) (2)				37.26	20.00		54.00		Average
	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	28.04	27.43	7.80	37.26	20.00	46.01	74.00	-27.99	Peak
	2	2500.00	27.51	27.40	7.81	37.26	20.00	45.46	74.00	-28.54	Peak
Туре		802.11	b	Test ch	annel	СН	11	Pol	arity	1	Vertical
	Mark	Frequency	-	Antenna		Charles and Charle		Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	27.5	2483.49					20.00	40.75			Average
	2	2500.00	21.33	27.40	7.81	37.26	20.00	39.28	54.00	-14.72	Average
	Mark	Frequency	Reading	Antenna	Cable	Pream	Aux	Level	Limit	Ove	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/	m lim	it
	1	2483.49	29.02	27.43	7.80	37.26	20.00	46.99	74.00	-27.0	1 Peak
	2	2500.00	29.40	27.40	7.81	37.26	20.00	47.35	74.00	-26.6	5 Peak

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Туре		802.1	1g	Test c	hannel	CH	H01	P	Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	An <mark>t</mark> enna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	21.75	27.96 27.72	7.30	37.56	20.00		54.00	-14.55	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/		
	1 2	2310.00 2390.01	28.12 30.44	27.96 27.72	7.30 7.72	Company of the Company	20.00				(A) /
Туре		802.1	1g	Test c	hannel	I CH	1 01	P	Polarity		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 2	2310.00 2390.01	22.32 21.79	27.96 27.72			20.00	40.02 39.78			Average Average
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/		
	1 2	2310.00	28.32 29.93	27.96 27.72	7.30	37.56	20.00	46.02	74.00	-27.98	3 Peak

Туре		802.1	1g	Test c	hannel	CH	111	P	olarity		Horizonta
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over	
	1	2483.49	42.20	27.43	7.80	37.26	20.00	60.17	74.00	-13.83	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	Limit dBuV/m	Over limit	Remark
	1	2483.49	30.54	27.43	7.80	37.26	20.00	48.51	54.00	-5.49	Average
	2	2500.00	21.91	27.40	7.81	37.26	20.00	39.86	54.00	-14.14	Average
Туре		802.1	1g	Test c	hannel	CH	111	P	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	38.44	27.43	7.80	37.26	20.00	56.41	74.00	-17.59	Peak
	2	2500.00	29.21	27.40	7.81	37.26	20.00	47.16	74.00	-26.84	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	30.57	27.43	7.80	37.26	20.00	48.54	54.00	-5.46	Average
	2	2500.00	22.32	27.40	7.81	37.26	20.00	40.27	54.00	-13.73	Average

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Туре		802.11	In(HT20)	Test	channe	I CH	H01	Р	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 2	2310.00 2390.01	27.69 32.86	27.96 27.72	7.30 7.72	37.56 37.45	20.00	45.39 50.85	74.00 -28.6 74.00 -23.1	
	Mark	Frequency MHz	Reading dBuV/m	An <mark>t</mark> enna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01	21.30 23.42	27.96 27.72	7.30 7.72		20.00 20.00	39.00 41.41		Average Average
Гуре		802.11	In(HT20)	Test	channe	I Ch	H01	Р	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	An <mark>t</mark> enna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	Carried State of the State of t
	1 2	2310.00 2390.01	28.05 32.47	27.96 27.72	7.30 7.72	37.56 37.45	20.00	45.75 50.46	74.00 -28.2 74.00 -23.5	
	Mark	Frequency MHz	Reading dBuV/m	An <mark>tenna</mark> dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01	22.04 22.88	27.96 27.72	7.30 7.72	37.56 37.45	20.00		54.00 -14.26 54.00 -13.13	Average Average

Туре		802.1	1n(HT20)	Test	hanne	l C	H11	Р	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
		2483.49 2500.00	29.61 21.61	27.43 27.40	7.80 7.81	37.26 37.26	20.00	47.58 39.56	54.00 54.00		Average Average
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00		27.43 27.40	7.80 7.81	37.26 37.26	20.00	57.93 46.29	74.00 74.00	-16.07 -27.71	Peak Peak
Туре		802.1	1n(HT20)	Test o	hanne	I C	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
		2483.49 2500.00	28.17 21.95	27.43 27.40	7.80	37.26 37.26	20.00	46.14		-7.86	Average Average
	Mark	Frequency MHz	•	An <mark>t</mark> enna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/	Over m limi	
	1 2	2483.49 2500.00	37.48 29.55	27.43 27.40	7.80 7.81	37.26 37.26	20.00 20.00	55.45 47.50	74.00 74.00		

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Туре		802.11n(HT	Γ40)	Test chann	nel	CH03	P	olarity	F	lorizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	23.13	27.96	7.30	37.56	40.83	54.00	-13.17	Average
	2	2389.99	20.32	27.72	7.72	37.45	38.31	54.00	-15.69	Average
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Limit Over	
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limi	t
	1	2310.00	28.87	27.96	7.30	37.56	46.57	74.00	-27.4	B Peak
	2	2389.99	27.83	27.72	7.72	37.45	45.82	74.00	-28.1	B Peak
Гуре	802.11n(F		Γ40)	Test channel		CH03	Polarity		V	'ertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limi	t
	1	2310.00	28.72	27.96	7.30	37.56	46.42	74.00	-27.5	8 Peak
	2	2389.99	28.09	27.72	7.72	37.45	46.08	74.00	-27.9	2 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	21.73	27.96	7.30	37.56	39.43		-14.57	
	2	2389.99	21.43	27.72	7.72	37.45	39.42		-14.58	

Туре		802.11n(H7	Γ40)	Test chann	nel	CH09	Po	larity	Н	orizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m		Over limit	Remark
	1 2	2483.50 2500.00	20.46 20.23		7.80 7.81	37.26 37.26	38.43 38.18	54.00 54.00	-15.57 -15.82	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.50 2500.00	27.69 27.91	27.43 27.40	7.80 7.81	37.26 37.26	45.66 45.86			Peak Peak
Гуре		802.11n(H7	Γ40)	Test chann	nel	CH09	Po	larity	Ve	ertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.50 2500.00	23.01 23.29		7.80 7.81	37.26 37.26	40.98 41.24	54.00	-13.02 -12.76	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.50 2500.00	27.70 28.15	27.43 27.40	7.80 7.81	37.26 37.26	45.67 46.10	74.00 74.00	-28.33 -27.90	

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

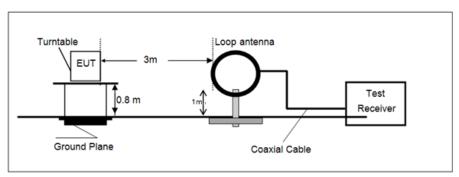
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

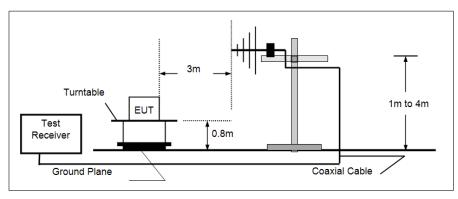
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

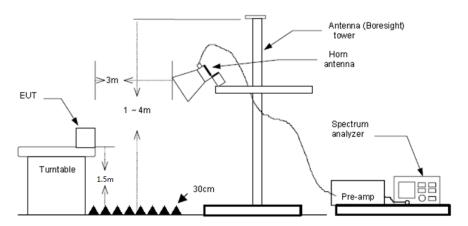


> 30 MHz ~ 1 GHz



Above 1 GHz

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TEST PROCEDURE

- 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.
- 6. 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
- Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

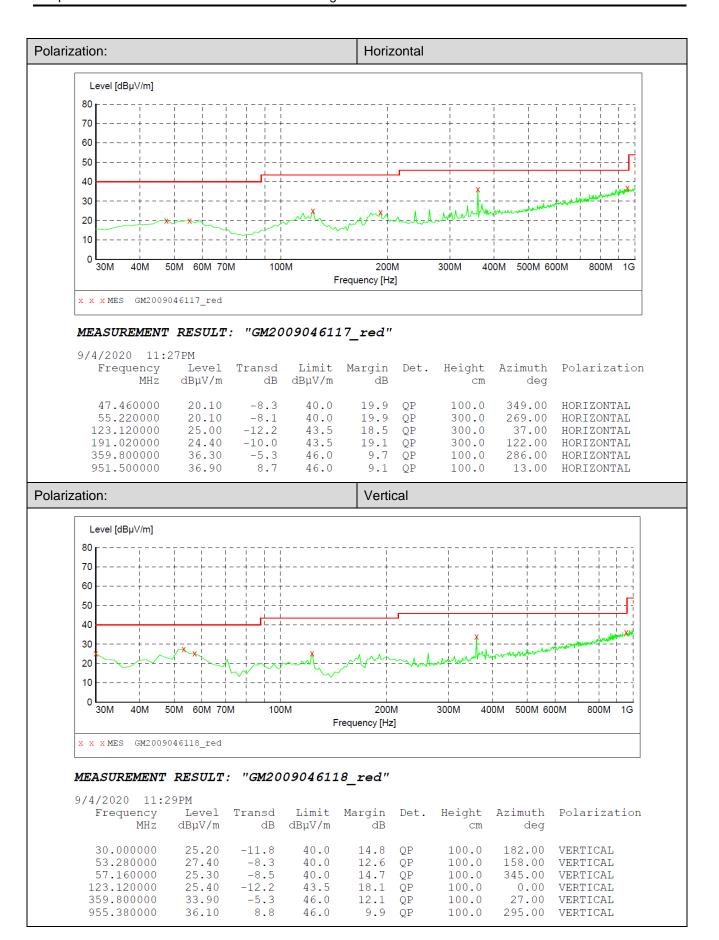
TEST DATA FOR 9 kHz ~ 30 MHz

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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TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.1	1b	Test c	hannel	(CH01	1		Polarity	Horizontal
	Mark	Frequency					amp		Level		
	24	MHz	dBuV/m	dB	dB	dB		dB	dBuV/		
	1	1323.14	33.01	26.14	5.45				28.25	74.00 -45.7	
	2	3616.45	33.23	29.40	10.05	36.98			35.70	74.00 -38.3	
	3	4821.76	40.26	31.40	11.52				47.94	74.00 -26.0	
	4	8083.96	30.89	37.20	14.27	33.32	2	0.00	49.04	74.00 -24.9	6 Peak
Туре		802.1	1b	Test c	hannel	(CH01	1		Polarity	Vertical
	Maral.	Frequency	Dandina	^	C-b1-	D		A	Level	Limit Ove	r Remark
	ridi K	MHz	dBuV/m	dB	dB	dB	iiiib	dB	dBuV/		
	1	1283.34	34.04	25.97	5.37				29.02	74.00 -44.9	
		3616.45	32.75		10.05			0.00	35.22	74.00 -38.7	
		4821.76			11.52				44.82	74.00 -29.1	
	4	9228.06	31.34	38.91	15.12	36.04		0.00	49.33	74.00 -24.6	7 Peak
Туре	802.11b			Test channel CH0			CH06	3		Polarity	Horizontal
	Maral.		n		C-1-1-			A	1	11-11- 0	BI
	mark.	Frequency					amp		Level		
		MHz	dBuV/m	dB	dB	dB		dB	dBuV/		
		1213.44	35.24	25.68	5.14				29,43	74.00 -44.5	
		4014.29	31.95		10.18				35.75	74.00 -38.2	
		4871.10	36.38		11.51				44.13	74.00 -29.8	
	4	7921.00	31.49	36.84	14.53	33.33	3	0.00	49.53	74.00 -24.4	17 Peak
Туре		802.1	1b	Test c	hannel	(CH06	6		Polarity	Vertical
	Mark	Frequency							Level		
		MHz	dBuV/m	dB	dB	dB		dB	dBuV/		
	1	1260.67	34.33	25.92	5.29	36.46	5	0.00	29.08	74.00 -44.9	2 Peak
	2	3653.46	32.41	29.40	9.93	37.02	2	0.00	34.72	74.00 -39.2	8 Peak
	3	4871.10	38.26	31.40	11.51	35.16	5	0.00	46.01	74.00 -27.9	9 Peak
	4	9251.58	31.43	39.01	15.13	36.13	3	0.00	49.44	74.00 -24.5	6 Pea <mark>k</mark>
Туре		802.1	1b	Test c	hannel	(CH11	ĺ		Polarity	Horizontal
			D 11		c-L1	р.		A		1 12-25 7	n - 1
	mark	Frequency							Level		
		MHZ	dBuV/m	dB	dB	dB		dB	dBuV,		nit
	1	1260.67	33.44	25.92	5.29				28.19		
										74.00 -39.7	
	3		31.42							74.00 -34.2	
	4	8313.51	32.05	36.50	14.55	33.68	8	0.00	49.42	74.00 -24.5	58 Peak
Туре		802.1	1b	Test c	hannel	(CH11	1		Polarity	Vertical
			n 42	^	 1			A			
	mark	Frequency									
		MHz			dB	dB			dBuV,		
	1	1182.94	35.54	25.53							
	2			29.40							
	-	4920.96	36.13	31.44	11.51	35.20	1	0.00	43.87	74.00 -30.1 74.00 -24.5	L3 Peak
	3		31.35								

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Mark					Test channel CH01				Polarity Horizon			
mark			D42		C-1-1-							
		quency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level	Limit Over dBuV/m lim			
		Hz	The second secon			dB		dBuV/m				
1	1207		34.31	25.64	5.11	36.64	0.00	28.42	74.00 -45.58			
2	3616		37.55	29.40	10.05	36.98	0.00	40.02	74.00 -33.98			
4	9228	.06	32.13	38.91	15.12	36.04	0.00	50.12	74.00 -23.88	8 Peak		
		802.1	1g	Test o	hannel	CH0)1		Polarity	Vertical		
Mark	Fre	uency	Peading	Antenna	Cable	Dreamn	Aux	Level	Limit Ove	r Remark		
ridi K						The second secon						
200												
4	8063				200000000000000000000000000000000000000					7 Peak		
		802.1	1g	Test o	hannel	CH0)6		Polarity	Horizontal		
Mark	Fre	auency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	r Remark		
		A Principle of the Control of the Co								ni t		
1												
4	8125								THE CONTROL OF THE PROPERTY			
		802.1	1g	Test	hannel	CH0)6		Polarity	Vertical		
Mark	Fred	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	r Remark		
		The second second		dB		dB	dB			it		
1												
4.0												
4	0002.	db	51.55	57.10	14.29	55.51	0.00	49.43	/4.00 -24.5	7 Peak		
	an a was made	802.1	1g	Test c	hannel	CH1	1		Polarity	Horizontal		
Mark	Fred	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	r Remark		
			dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lim	it		
1	1071.	15	35.24	25.29						8 Peak		
(C)												
4			31.47	39.60					74.00 -24.0			
		802.1	1g	Test o	hannel	CH1	1		Polarity	Vertical		
Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ov	er Remark		
										mit		
1									ALC: The second second second second			
2	3690		38.38	29.40		37.04		40.56	74.00 -33.			
	2020	.00	50.50	25,40	5.02	37.04	0.00	40.00	74.00 -33.	TT FEAR		
3	5086	52	31.72	32.20	11 45	35.46	0 00	39.91	74.00 -34.			
	1 2 3 4 Mark 1 2 3 4 Mark 1 2 3 4 4	Mark Free Mr 1 1254, 2 3653, 3 6283, 4 8002. Mark Free Mr 1 1254, 2 3653, 3 6283, 4 8002. Mark Free Mr 1 1071, 2 3690, 3 5703, 4 9784.	## 9228.06 ### 802.1 Mark Frequency MHz 1182.94 2 3616.45 3 4834.05 4 8063.40 802.1 Mark Frequency MHz 1 1225.86 2 3653.46 3 5747.59 4 8125.22 802.1 Mark Frequency MHz 1 254.27 2 3653.46 3 6283.16 4 8002.06 802.1 Mark Frequency MHz 1 1071.15 2 3690.85 3 5703.86 4 9784.47 802.1 Mark Frequency MHz 802.1 Mark Frequency MHz 802.1	802.11g	802.11g Test of the color o	Mark Frequency Reading Antenna Cable MHz dBuV/m dB dB dB dB dB dB dB d	Mark Frequency Reading Antenna Cable Preamp	Mark Frequency Reading Antenna Cable Preamp Aux Au	Mark Frequency Reading Antenna Cable Preamp Aux Level	Mark Frequency Reading Antenna Cable Preamp Aux Level Limit Over		

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Туре		802.1	I1n(HT20)	Test c	hannel	CHO)1		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
	1	1153.21	35.26	25.41	5.04	36.76	0.00	28.95	74.00 -45.0	
	2	3616.45	37.37	29.40	10.05				74.00 -34.1	
	3	4834.05	32.41	31.40		35.20			74.00 -33.8	
	4	8792.37	30.31	37.70	15.79			48.92	74.00 -25.0	
Туре		To the Mark Control of the Control o	I1n(HT20)		V.350.00000 N. 100000	СНО	10 Ball 1 Ball 1		Polarity	Vertical
71										
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
	1	1219.64		25.72		36.62	0.00	28.68	74.00 -45.3	
	2	3616.45		29.40		36.98		38.73	74.00 -45.3	
	3	5836.04			12.40			40.23	74.00 -33.7	
	4	8022.46	31.32	37.14	14.29	22.31	0.00	49.44	74.00 -24.5	6 Peak
Туре		802.1	11n(HT20)	Test c	hannel	CHO)6		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
	1	1121.37	35.20	25.40	5.00	36.85	0.00	28.75	74.00 -45.2	5 Peak
	2	3662.78	38.33	29.40	9.90	37.02	0.00	40.61	74.00 -33.3	9 Peak
	3	5747.59	30.54	31.90	12.38	34.85	0.00	39.97	74.00 -34.0	3 Peak
	4	8083.96	30.59	37.20	14.27	33.32	0.00	48.74	74.00 -25.2	6 Peak
Туре		802.1	I1n(HT20)	Test c	hannel	CHO)6		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
	1	1222.74	33.63	25.74	5.17	36.61	0.00	27.93	74.00 -46.0	7 Peak
	2	3653.46	38.69	29.40	9.93	37.02	0.00	41.00	74.00 -33.0	0 Peak
	3	6078.64	30.11	32.56	12.88	34.96	0.00	40.59	74.00 -33.4	1 Peak
	4	8002.06	31.62	37.10	14.29	33.31	0.00	49.70	74.00 -24.3	0 Peak
Туре		802.1	I1n(HT20)	Test c	hannel	CH ²	1		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
		1138.63	35.05	25.40		36.81		28.66		
	1				02				74.00 -34.5	
	1				9.82	37.04	10 1010		77.00 54.5	LUIN
	2	3690.85	37.28	29.40					74.00 -33 6	8 Peak
		3690.85 5631.73	37.28 30.98	29.40 31.90	12.46	35.02	0.00	40.32		
	2	3690.85	37.28	29.40		35.02	0.00		74.00 -33.6 74.00 -24.8	
Type	2	3690.85 5631.73 7961.43	37.28 30.98	29.40 31.90 36.95	12.46	35.02	0.00	40.32		
Туре	2 3 4	3690.85 5631.73 7961.43 802.	37.28 30.98 31.12	29.40 31.90 36.95	12.46 14.41 hannel	35.02 33.32 CH1	0.00	40.32 49.16	74.00 -24.8 Polarity	4 Peak Vertical
Туре	2 3 4	3690.85 5631.73 7961.43 802.′	37.28 30.98 31.12 In(HT20)	29.40 31.90 36.95 Test o	12.46 14.41 hannel	35.02 33.32 CH1	0.00 0.00 1 Aux	40.32 49.16 Level	74.00 -24.8 Polarity Limit Over	4 Peak Vertical Remark
Type	2 3 4	3690.85 5631.73 7961.43 802.′ Frequency	37.28 30.98 31.12 In(HT20) Reading dBuV/m	29.40 31.90 36.95 Test c	12.46 14.41 hannel Cable dB	35.02 33.32 CH ¹ Preamp dB	0.00 0.00 1 Aux dB	40.32 49.16 Level	74.00 -24.8 Polarity Limit Over m dBuV/m limi	4 Peak Vertical Remark
Туре	2 3 4 Mark	3690.85 5631.73 7961.43 802.′ Frequency MHz 1263.88	37.28 30.98 31.12 In(HT20) Reading dBuV/m 33.41	29.40 31.90 36.95 Test c	12.46 14.41 hannel Cable dB 5.30	35.02 33.32 CH1 Preamp dB 36.44	0.00 0.00 1 Aux dB 0.00	40.32 49.16 Level dBuV/v 28.20	74.00 -24.8 Polarity Limit Over m dBuV/m limit 74.00 -45.80	4 Peak Vertical Remark
Туре	2 3 4	3690.85 5631.73 7961.43 802.′ Frequency	37.28 30.98 31.12 In(HT20) Reading dBuV/m 33.41	29.40 31.90 36.95 Test c	12.46 14.41 hannel Cable dB	35.02 33.32 CH ² Preamp dB 36.44 37.04	0.00 0.00 1 Aux dB 0.00 0.00	40.32 49.16 Level dBuV/v 28.20	74.00 -24.8 Polarity Limit Over m dBuV/m limi	Vertical Remark t Peak Peak Peak

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Туре			802.1	1n(HT40)	Test c	hannel	CHO	3		Polarity		Horizontal
	Mark		quency	_			Preamp		Level		Over	Remark
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/		limi	
	1	1144		35.18	25.40		36.79	0.00	28.81		45.19	
	2	3634		36.95	29.40		37.00	0.00	39.34		34.66	
	3	4834		31.07	31.40	11.51	35.20	0.00	38.78		35.22	
	4	7941	.19	31.02	36.88	14.47	33.32	0.00	49.05	74.00 -	24.95	Peak
Туре			802.1	1n(HT40)	Test c	channel	CHO	3		Polarity		Vertical
	Mark			Reading					Leve!		Over	
		MH	Hz	dBuV/m	dB	dB	dB	dB	dBuV,	m dBuV/m	limi	it
	1	1247	.90	33.79	25.89	5.25	36.51	0.00	28.42	74.00	-45.58	B Peak
	2	3634.	.91	36.15	29.40	9.99	37.00	0.00	38.54	74.00	-35.46	5 Peak
	3	4846	.37	31.01	31.40		35.17	0.00	38.75	74.00	-35.25	5 Peak
	4	8042		31.06	37.19	14.28			49.22	74.00		
Туре			802.1	1n(HT40)	Test c	hannel	CHO	16		Polarity		Horizontal
	Mark	Freq	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MH		dBuV/m	dB	dB	dB	dB	dBuV/		limi	
	1	1138.			25.40		36.81	0.00	28.64		-45.36	
		3644.					37.01	0.00	38.30		-35.70	
		5393.					35.30	0.00	39.49		-34.51	
	1000	7961.				14.41			49.49		-24.51	
Туре				1n(HT40)		channel	CHO	- 915.001.002.002.002		Polarity		Vertical
i ype			302.1	(11140)	16310		OI IC			- Clarity		····
	Mark	Free	quency	Reading	Antenna	Cable	Preamn	Aux	Level	Limit	Over	r Remark
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/		limi	
	1	1283		33.08	25.97	5.37		0.00	28.06		-45.94	
			-					0.00	37.59		-36.41	
	2	3653	.46	35.28	29.40	9.93	31.07					
	2	3653. 4883		35,28	29.40	9.93			38 88			
	3	4883	.52	31.16	31.40	11.50	35.18	0.00	38.88	74.00	-35.12	2 Peak
			.52				35.18	0.00	38.88 48.90	74.00		2 Peak
Туре	3	4883	.52 .08	31.16	31.40 37.47	11.50	35.18	0.00		74.00	-35.12	2 Peak
Туре	3 4	4883 8637	.52 .08 802.1	31.16 31.56 1n(HT40)	31.40 37.47 Test c	11.50 15.00 channel	35.18 35.13 CHO	0.00 0.00	48.90	74.00 74.00 Polarity	-35.12 -25.10	Peak Peak Horizontal
Туре	3 4	4883 8637 Freq	.52 .08 802.1	31.16 31.56 1n(HT40) Reading	31.40 37.47 Test c	11.50 15.00 channel	35.18 35.13 CHO	0.00 0.00 9	48.90 Level	74.00 74.00 Polarity	-35.12 -25.10 Over	Peak Peak Horizontal Remark
Туре	3 4 Mark	4883 8637 Freq MH	.52 .08 802.1: quency	31.16 31.56 1n(HT40) 	31.40 37.47 Test c	11.50 15.00 channel	35.18 35.13 CHC	0.00 0.00 9 Aux dB	48.90 Level	74.00 74.00 Polarity Limit m dBuV/m	-35.12 -25.10 Over	Peak Peak Horizontal Remark
Type	3 4 Mark	4883 8637 Freq MH 1176.	.52 .08 802.1 quency tz .94	31.16 31.56 1n(HT40) Reading dBuV/m 34.47	31.40 37.47 Test c	11.50 15.00 channel Cable dB 5.06	35.18 35.13 CHO Preamp dB 36.68	0.00 0.00 9 Aux dB 0.00	48.90 Level dBuV/ 28.36	74.00 74.00 Polarity Limit m dBuV/m 74.00	-35.12 -25.10 Over limit	Peak Peak Horizontal Remark t
Туре	3 4 Mark 1 2	4883 8637 Freq MH 1176. 3681.	.52 .08 802.1 quency lz .94 47	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09	31.40 37.47 Test c	11.50 15.00 channel Cable dB 5.06 9.85	35.18 35.13 CHO Preamp dB 36.68 37.04	0.00 0.00 9 Aux dB 0.00 0.00	48.90 Level dBuV/r 28.36 37.30	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 -	-35.12 -25.10 Over limit 45.64 36.70	Peak Peak Horizontal Remark t Peak Peak
Туре	3 4 Mark 1 2 3	Freq MH 1176. 3681. 5476.	.52 .08 802.1: quency tz .94 47 .22	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19	31.40 37.47 Test c	11.50 15.00 channel Cable dB 5.06 9.85 11.97	35.18 35.13 CHO Preamp dB 36.68 37.04 35.36	0.00 0.00 9 Aux dB 0.00 0.00	48.90 Level dBuV/ 28.36 37.30 39.61	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 -36.70 -34.39	Peak Peak Horizontal Remark t Peak Peak Peak Peak
Туре	3 4 Mark 1 2	4883 8637 Freq MH 1176. 3681.	.52 .08 802.1: quency tz .94 47 .22	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09	31.40 37.47 Test c	11.50 15.00 channel Cable dB 5.06 9.85	35.18 35.13 CHO Preamp dB 36.68 37.04 35.36	0.00 0.00 9 Aux dB 0.00 0.00	48.90 Level dBuV/r 28.36 37.30	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 -36.70 -34.39	Peak Peak Horizontal Remark t Peak Peak Peak Peak
Type Type	3 4 Mark 1 2 3	Freq MH 1176. 3681. 5476.	802.11 802.11 quency dz 94 47 22 06	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19	31.40 37.47 Test c	11.50 15.00 channel Cable dB 5.06 9.85 11.97	35.18 35.13 CHO Preamp dB 36.68 37.04 35.36	0.00 0.00 9 Aux dB 0.00 0.00 0.00	48.90 Level dBuV/ 28.36 37.30 39.61	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 -36.70 -34.39	Peak Peak Horizontal Remark t Peak Peak Peak Peak
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228.	802.1 802.1 quency dz 94 47 22 96 802.1	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98 1n(HT40)	31.40 37.47 Test C	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel	Preamp dB 36.68 37.04 35.36 36.04 CHO	0.00 0.00 99 Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 28.36 37.30 39.61 49.97	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 -36.70 -34.39	Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228.	802.1 802.1 quency dz 94 47 22 96 802.1	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98	31.40 37.47 Test C	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel	Preamp dB 36.68 37.04 35.36 36.04 CHO	0.00 0.00 99 Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 28.36 37.30 39.61 49.97	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 36.70 34.39 24.03	Peak Peak Horizontal Remark t Peak Peak Peak Peak Vertical
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228.	802.11 quency dz 94 47 22 06 802.11	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98 1n(HT40)	31.40 37.47 Test C Antenna dB 25.51 29.40 31.81 38.91 Test C	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel	Preamp dB 36.68 37.04 35.36 36.04 CHO	0.00 0.00 99 Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 28.36 37.30 39.61 49.97	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	-35.12 -25.16 Over limit 45.64 36.70 34.39 24.03	Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Vertical
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228.	802.11 quency dz 94 47 22 06 802.11	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98 1n(HT40)	31.40 37.47 Test C Antenna dB 25.51 29.40 31.81 38.91 Test C	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel	35.18 35.13 CHC Preamp dB 36.68 37.04 35.36 36.04 CHC	0.00 0.00 9 Aux dB 0.00 0.00 0.00 9	Level dBuV/r 28.36 37.30 39.61 49.97	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity Limit /m dBuV/m	-35.12 -25.16 Over limit 45.64 36.70 34.39 24.03 Over lim:	Peak Peak Horizontal Remark Peak Peak Peak Peak Vertical Remark it
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228.	802.11 94 47 22 96 802.11	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98 1n(HT40) Reading dBuV/m	31.40 37.47 Test C Antenna dB 25.51 29.40 31.81 38.91 Test C	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel Cable dB 5.46	35.18 35.13 CHO Preamp dB 36.68 37.04 35.36 36.04 CHO	0.00 0.00 9 Aux dB 0.00 0.00 0.00 0.00 9	Level dBuV/r 28.36 37.30 39.61 49.97 Level dBuV/r 28.28	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Limit /m dBuV/m 74.00	-35.12 -25.16 Over limit 45.64 36.70 34.39 24.03 Over lim: -45.72	Peak Peak Horizontal Remark t Peak Peak Peak Peak Vertical Remark it Peak
	3 4 Mark 1 2 3 4	Freq MH 1176. 3681. 5476. 9228. Freq MH 1333.	802.11 94 47 22 96 802.11 quency tz 22 808 808 808 808 808 808 808	31.16 31.56 1n(HT40) Reading dBuV/m 34.47 35.09 31.19 31.98 1n(HT40) Reading dBuV/m 33.00	31.40 37.47 Test C Antenna dB 25.51 29.40 31.81 38.91 Test C Antenna dB 26.20 29.40	11.50 15.00 channel Cable dB 5.06 9.85 11.97 15.12 channel Cable dB 5.46 9.82	35.18 35.13 CHO Preamp dB 36.68 37.04 35.36 36.04 CHO Preamp dB 36.38	0.00 0.00 9 Aux dB 0.00 0.00 0.00 9 Aux dB 0.00 0.00	Level dBuV/r 28.36 37.30 39.61 49.97	74.00 74.00 Polarity Limit m dBuV/m 74.00 - 74.00 - 74.00 - Polarity I Limit /m dBuV/m 74.00 74.00 74.00	-35.12 -25.16 Over limit 45.64 36.70 34.39 24.03 Over lim: -45.77 -37.66	Peak Peak Peak Peak Peak Peak Peak Peak

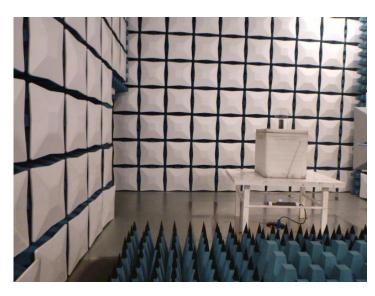
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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW20090109

8. APPENDIX REPORT