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TE	EST REPORT		
Report No : Project No	CHTEW21010078 Report Verification:		
FCC ID: : Applicant's name:	2AFIB-YHS6020 Shanghai Xiaoyi Technology Co., Ltd.		
Address	Building 18, Lane 55, Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, Shanghai, China, 201203		
Test item description:	YI Dome U Camera Pro		
Trade Mark	YI		
Model/Type reference:	YHS.6020		
Listed Model(s)			
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of receipt of test sample	Jan. 06, 2021		
Date of testing	Jan. 07, 2021- Jan. 14, 2021		
Date of issue	Jan. 15, 2021		
Result	PASS		
Compiled by (Position+Printed name+Signature):	File administrator Silvia Li ChenqXiao		
Supervised by (Position+Printed name+Signature):	Project Engineer Xiao Cheng		
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Testing Laboratory Name: :	g Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.		
Address 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
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Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1. 1.2.	Test Standards Report version	3 3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1. 3.2. 3.3. 3.4.	Client Information Product Description Radio Specification Description Testing Laboratory Information	5 5 5 6
<u>4.</u>	TEST CONFIGURATION	7
4.1. 4.2. 4.3. 4.4. 4.5. 4.6. 4.7.	Test frequency list Descriptions of Test mode Test mode Support unit used in test configuration and system Testing environmental condition Measurement uncertainty Equipment Used during the Test	7 7 8 8 8 9
<u>5.</u>	TEST CONDITIONS AND RESULTS	11
5.1. 5.2. 5.3. 5.4. 5.5. 5.6. 5.7. 5.8. 5.9. 5.10.	Antenna Requirement AC Conducted Emission Peak Output Power Power Spectral Density 6dB bandwidth 99% Occupied Bandwidth Duty Cycle Conducted Band edge and Spurious Emission Radiated Band edge Emission Radiated Spurious Emission	11 12 15 16 17 18 19 20 22 27
<u>6.</u>	TEST SETUP PHOTOS	34
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	36
<u>8.</u>	APPENDIX REPORT	44

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- <u>FCC Rules Part 15.247</u>: 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
- <u>ANSI C63.10:2013</u>: 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	2021-01-15	Original

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.

3. SUMMARY

3.1. Client Information

Applicant:	Shanghai Xiaoyi Technology Co., Ltd.	
Address:	Building 18, Lane 55, Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, Shanghai, China, 201203	
Manufacturer:	Shanghai Xiaoyi Technology Co., Ltd.	
Address:	Building 18, Lane 55, Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, Shanghai, China, 201203	

3.2. Product Description

Name of EUT:	YI Dome U Camera Pro
Trade Mark:	YI
Model No.:	YHS.6020
Listed Model(s):	-
Battery Information:	DC 5.0V
Adapter Information:	Model:TPA-46B050100UU Input: AC100-240V, 50/60Hz, 0.2A Output: 5.0Vdc, 1000mA
Hardware version:	01-XH60GA-MA200
Software version:	9.0.27.08

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:	FPC Antenna	
Antenna gain:	2.9dBi	

Note:

*2: only show the RF function associated with this report.

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: <u>cs@szhtw.com.cn</u> <u>http://www.szhtw.com.cn</u>		
Qualifications	Туре	Accreditation Number	
Qualifications	FCC	762235	

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.

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.

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	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 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	2020/10/19	2021/10/18
•	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	2020/11/12	2021/11/11
•	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					
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	2020/04/27	2023/04/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/12	2021/11/11
•	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

•	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
0	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

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

<u>Requirement</u>

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.

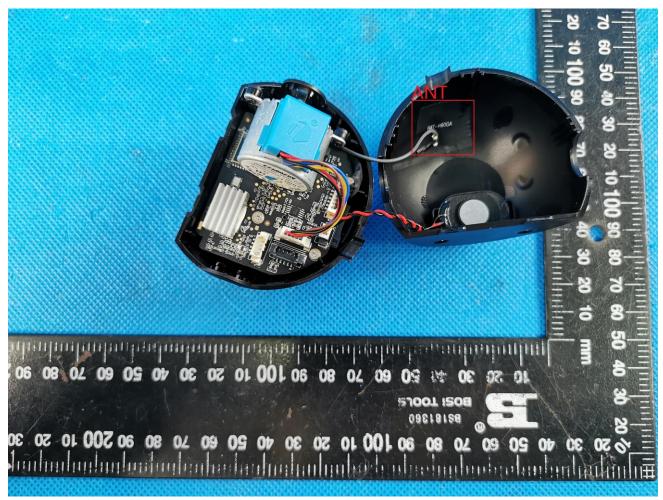
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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

☑ Passed □ Not Applicable

The antenna type is a FPC antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. AC Conducted Emission

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	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.
- 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.

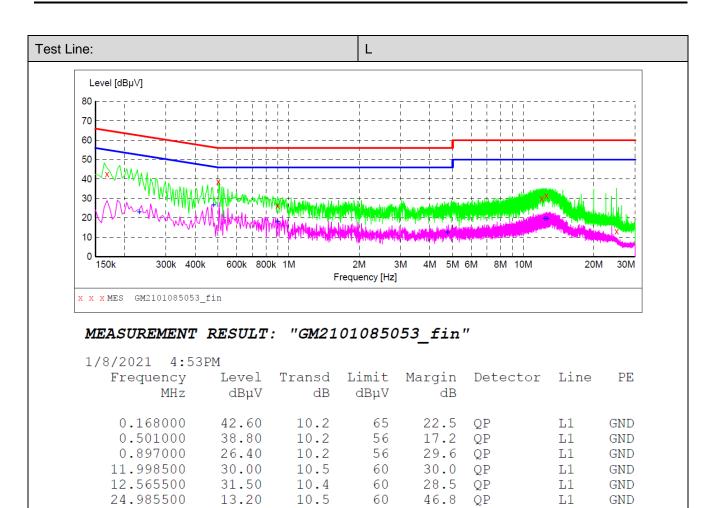
TEST MODE:

Please refer to the clause 4.2

TEST RESULT

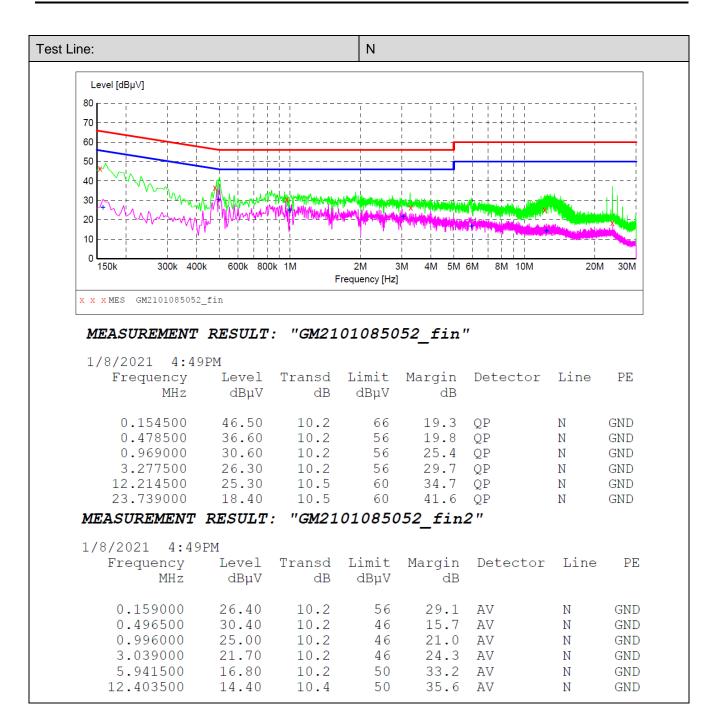
☑ Passed □ Not Applicable

Shenzhen Huatongwei International Inspection Co., Ltd.



MEASUREMENT RESULT: "GM2101085053_fin2" 1/8/2021 / 1/53PM

1/8/2021 4:53	3 PM							
Frequency	Level	Transd	Limit	Marqin	Detector	Line	PE	
MHz	dBuV	dB	dBuV	dB				
11112	αDμν	аb	abh	ab				
			5.0					
0.231000	23.00	10.2	52	29.4	AV	L1	GND	
0.478500	26.70	10.2	46	19.7	AV	L1	GND	
0.897000	18.20	10.2	46	27.8	AV	L1	GND	
4.758000	12.60	10.2	46	33.4	AV	L1	GND	
12.345000	19.70	10.4	50	30.3	AV	L1	GND	
12.628500	19.50	10.4	50	30.5	AV	L1	GND	
111020000	20.00	2011	00	00.0				

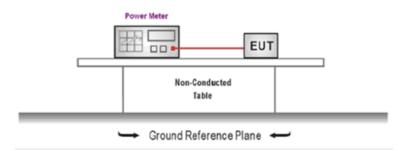


5.3. Peak Output Power

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

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix A on the appendix report

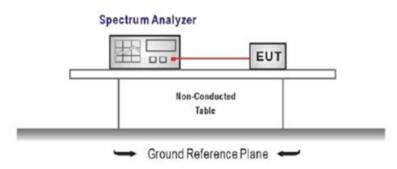
5.4. Power Spectral Density

<u>LIMIT</u>

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

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix B on the appendix report

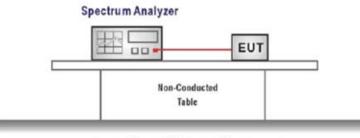
5.5. 6dB bandwidth

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



➡ Ground Reference Plane

TEST PROCEDURE

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

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW \ge 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

🛛 Passed 🛛 🗌 Not

Not Applicable

TEST Data

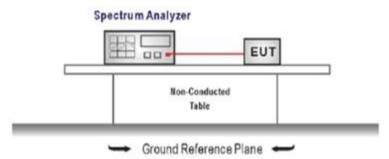
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

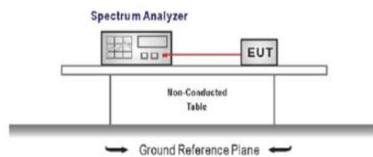
TEST Data

Please refer to appendix D on the appendix report

5.7. Duty Cycle

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. 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
- 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

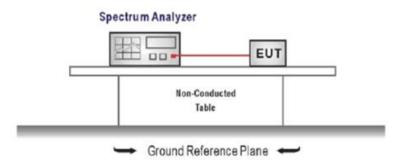
Please refer to appendix E on the appendix report

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.
- 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 ≥ 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 \ge 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

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

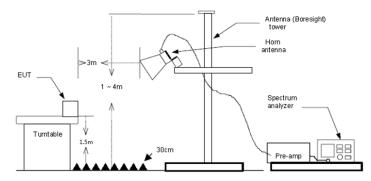
5.9. Radiated Band edge Emission

<u>LIMIT</u>

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. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

- 1) 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).

Туре			802.1	1b	Test cl	nannel	CH	01		Polarity		Horizontal
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		Over limi	the second second second
	1	2310	1000	28,80	27.96	7.30	37.56	20.00	46.50	74.00	-27.50	
	2	2390	.01	28.28	27.72	7.72	37.45	20.00	46.27	74.00	-27.73	Peak
Туре			802.1	1b	Test cl	nannel	CH	01		Polarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		Over limi	
	1	2310	.00	30.84	27.96	7.30	37.56	20.00	48.54	74.00	-25.46	Peak
	2	2390	.01	30.46	27.72	7.72	37.45	20.00	48.45	74.00	-25.55	Peak

Туре	802.11b			Test ch	nannel	СН	11	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 t
	1	2483.49	28.30	27.43	7.80	37.26	20.00	46.27	74.00	-27.73	Peak
	2	2500.00	29.72	27.40	7.81	37.26	20.00	47.67	74.00	-26.33	Peak
Туре		802.1	1b	Test ch	nannel	СН	11	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	
	1	2483.49	30.48	27.43	7.80	37.26	20.00	48.45	74.00	-25.55	Peak
	2	2500.00	29.24	27.40	7.81	37.26	20.00	47.19	74.00	-26.81	Peak

Туре	802.11g			1g	Test cl	Test channel			CH01 Po			Horizontal
			quency Hz	Reading dBuV/m	An <mark>tenna</mark> dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310	.00	28.00	27.96	7.30	37.56	20.00	45.70	74.00	-28.30	Peak
	2	2390	.01	27.91	27.72	7.72	37.45	20.00	45.90	74.00	-28.10	Peak
Туре			802.1	1g	Test cl	hannel	СН	01		Polarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	Remark t
	1	2310	.00	30.36	27.96	7.30	37.56	20.00	48.06	74.00	-25.94	Peak
	2	2390	.01	30.24	27.72	7.72	37.45	20.00	48.23	74.00	-25.77	Peak

Туре	802.11g		2.11g	1g Test channel		СН	CH11 Polarity			Horizontal	
	Mark	Frequen MHz	cy Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	Remark t
	1	2483.49	29,18	27.43	7.80	37.26	20.00	47.15	74.00	-26.85	Peak
	2	2500.00	27.45	27.40	7.81	37.26	20.00	45.40	74.00	-28.60	Peak
Туре		802	2.11g	Test c	hannel	СН	11	P	olarity		Vertical
	Mark	Frequer MHz	cy Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	30,93	27.43	7.80	37.26	20.00	48.90	74.00	-25.10	Peak
	2	2500.00	31.35	27.40	7.81	37.26	20.00	49.30	74.00	-24.70	Peak

Туре		802.11n(HT20)		1n(HT20)	Test c	Test channel				Polarity		Horizontal
	Mark		equency Mz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Leve dBuV			
	1	2310	0.00	27.19	27.96	7.30	37.56	20.00	44.89	74.00	-29.11	L Peak
	2	2390	0.01	26.96	27.72	7.72	37.45	20.00	44.95	74.00	-29.05	5 Peak
Туре			802.1	1n(HT20)	Test c	hannel	CH	01		Polarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		Over limit	Remark
	1	2310	.00	30,03	27.96	7.30	37.56	20.00	47.73	74.00	-26.27	Peak
	2	2390	.01	30.20	27.72	7.72	37.45	20.00	48.19	74.00	-25.81	Peak
Гуре			802.11	n(HT20)	Test o	hannel	CH	111		Polarity		Horizontal
	Mark	Free	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MH		dBuV/m	dB	dB	dB	dB	dBuV/			
	1	2483.	10 A.	28.77	27.43	1370	37.26	20.00	46.74		-27.26	
	2	2500.	.00	27.63	27.40	7.81	37.26	20.00	45.58	74.00	-28.42	Peak
Туре			802.11	n(HT20)	Test o	hannel	CH	111		Polarity		Vertical
	Mark	Fre	auency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	THAT IS		Hz	dBuV/m	dB	dB	dB	dB	dBuV/			
	1	2483		29,59		7.80	37.26	20.00	47.56	74.00	-26.44	
	2	2500	.00	29.71	27.40		37.26	20.00	47.66	74.00	-26.34	

Туре	802.11n(HT40)				Test ch	nannel	CH	03		Horizontal		
	Mark		quency Hz	Reading dBuV/m	An <mark>tenna</mark> dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310	.00	26.95	27.96	7.30	37.56	20.00	44.65	74.00	-29.35	Peak
	2	2389	.99	28.92	27.72	7.72	37.45	20.00	46.91	74.00	-27.09	Peak
Туре			802.1	In(HT40)	Test ch	nannel	CH	03		Polarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/r	Limit n dBuV/m	Over limi	
	1	2310	.00	29.91	27.96	7.30	37.56	20.00	47.61	74.00	-26.39	Peak
	2	2389	.99	34.84	27.72	7.72	37.45	20.00	52.83	74.00	-21.17	Peak

Туре			802.1	1n(HT40)	Test cl	Test channel			F	Polarity	Horizontal	
	Mark		quency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483	.50	28.82	27.43	7.80	37.26	20.00	46.79	74.00	-27.21	Peak
	2	2500	.00	27.51	27.40	7.81	37.26	20.00	45.46	74.00	-28.54	Peak
Туре			802.1	1n(HT40)	Test cl	nannel	CH	09	F	Polarity		Vertical
	Mark		quency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1	2483	.50	31.16	27.43	7.80	37.26	20.00	49.13	74.00	-24.87	Peak
	2	2500	00	29.39	27,40	7.81	37.26	20.00	47.34	74.00	-26.66	Peak

5.10. Radiated Spurious Emission

<u>LIMIT</u>

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

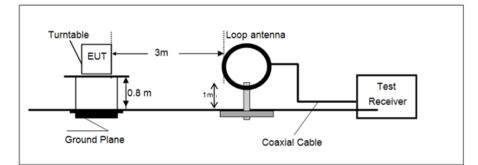
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

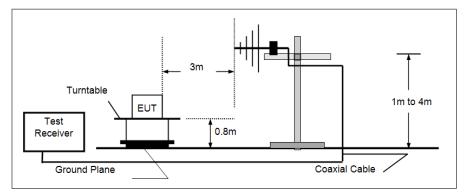
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
	54.00	Average
Above 1GHz	74.00	Peak

TEST CONFIGURATION

> 9 kHz ~ 30 MHz

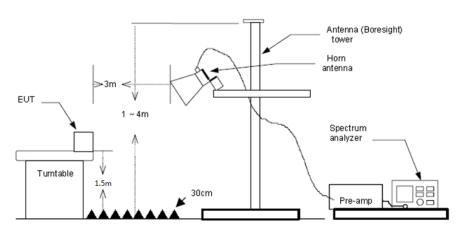


> 30 MHz ~ 1 GHz



Above 1 GHz

Page: 28 of 44



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10 .
- 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

☑ Passed □ Not Applicable

Note:

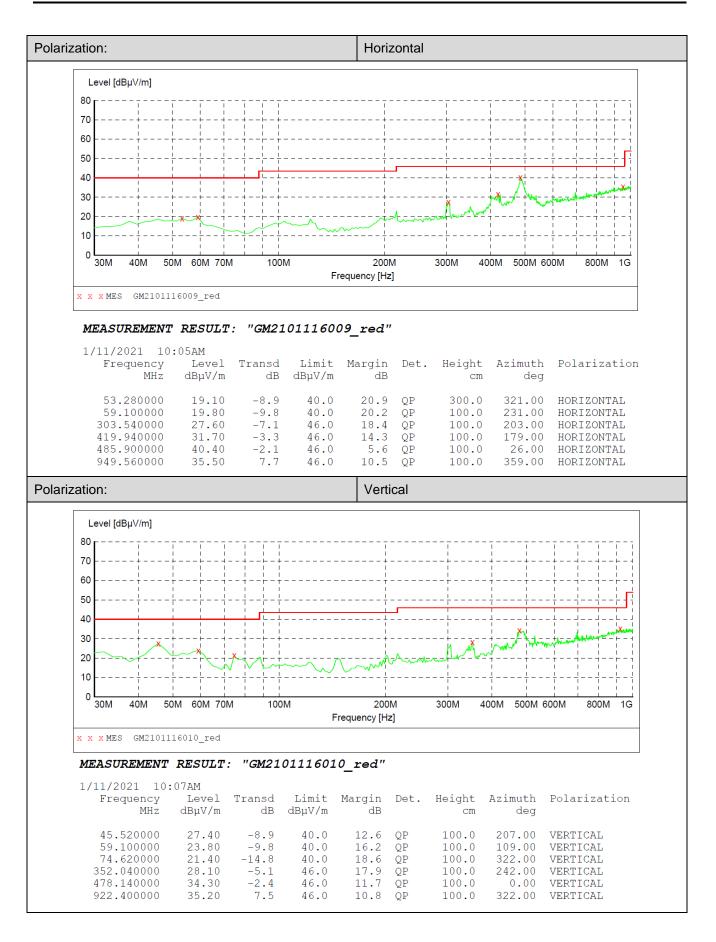
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

<u> TEST DATA FOR 9 kHz ~ 30 MHz</u>

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.



Shenzhen Huatongwei International Inspection Co., Ltd.

<u> TEST DATA FOR 1 GHz ~ 25 GHz</u>

Туре			802.1	1b	Test c	hannel		CH0	1		Polarity		Horizontal	
	1 2 3		Hz .90 .13 .05	Reading dBuV/m 34.33 31.97 41.38 30.44	dB 25.89 29.48 31.40	dB 5.25	di 36. 37. 35.	B 51 15 20	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 28.96 34.11 49.09 48.60		Over limi -45.04 -39.89 -24.91 -25.40	t Peak Peak Peak	
Туре			802.1	1b	Test c	hannel		CH0	1		Polarity		Vertical	
	Mark 1 2 3 4		Hz .64 .70 .76	Reading dBuV/m 34.81 32.61 44.40 30.75	Antenna dB 25.72 28.87 31.40 37.20	Cable dB 5.16 9.32 11.52 14.27		IB .62 .58 .24	Aux dB 0.00 0.00 0.00 0.00	Leve dBuV 29.07 34.22 52.08 48.90	/m dBuV/m 74.00 74.00 74.00	Over lim: -44.93 -39.78 -21.92 -25.10	it 3 Peak 8 Peak 2 Peak	
Туре			802.1	1b	Test c	hannel		CH0	6		Polarity		Horizontal	
	Mark 1 2 3 4		4Hz 3.94 0.71 L.10	Reading dBuV/m 34.77 31.54 40.95 29.85	Antenna dB 25.50 29.34 31.40 36.95	Cable dB 5.06 9.93 11.51 14.41		B 69 85 16	Aux dB 0.00 0.00 0.00 0.00	Leve dBuV 28.64 33.96 48.70 47.89	/m dBuV/m 74.00 74.00 74.00	Over limi -45.30 -40.04 -25.30 -26.11	it 5 Peak 4 Peak 9 Peak	
Туре			802.1	1b	Test c	hannel		CH0	6		Polarity		Vertical	
	Mark 1 2 3 4		.76	Reading dBuV/m 33.07 33.50 43.80 31.25	Antenna dB 25.98 28.70 31.40 37.70	dB 5.39 8.88 11.51	Pr d 36. 36. 35. 34.	33 87 16	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 28.11 34.21 51.55 49.86		Over limi -45.89 -39.79 -22.45 -24.14	t Peak Peak Peak	
Туре			802.1	1b	Test c	hannel		CH1	1		Polarity		Horizontal	
	Mark 1 2 3 4	N	4Hz 4.73 4.91 0.96	Reading dBuV/m 34.45 32.48 38.13 31.54	Antenna dB 25.87 29.40 31.44 37.19	Cable dB 5.24 9.99 11.51 14.28	d 36. 37. 35.	B 52 00 21	dB 0.00 0.00 0.00	Leve dBuV 29.04 34.87 45.87 49.70	/m dBuV/m 74.00 74.00 74.00	Over limi -44.90 -39.13 -28.13 -24.30	it 5 Peak 3 Peak 3 Peak	
Туре			802.1	1b	Test c	hannel		CH1	1		Polarity		Vertical	
	Mark 1 2 3 4		Hz .67 .18 .96	Reading dBuV/m 34.26 32.20 38.27 30.15	Antenna dB 25.92 29.40 31.44 37.70	Cable dB 5.29 9.96 11.51 15.17	d 36. 37. 35.	IB 46 01 21	dB 0.00 0.00 0.00	Leve dBuV 29.01 34.55 46.01 48.31	/m dBuV/m 74.00 74.00 74.00	Over lim: -44.99 -39.49 -27.99 -25.69	it 9 Peak 5 Peak 9 Peak	

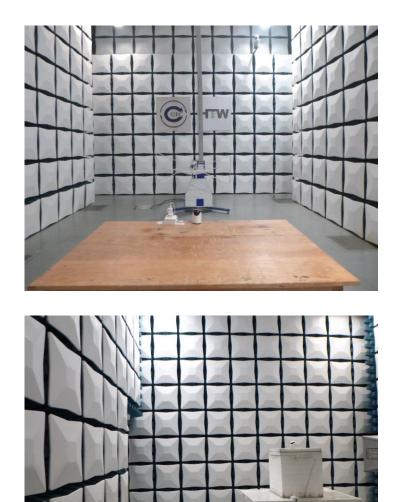
Туре			802.11	g	Test cl	nannel		CH0	1		Polarity		Horizontal	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB		eamp B	Aux dB	Leve] dBuV/				
	1	1207	.28	35.23	25.64	5.11	36.	64	0.00	29.34	74.00	-44.66	5 Peak	
	2	3570		32.50	29.34	9.93	36.		0.00	34.92	74.00			
	3	4821		41.08	31.40	11.52	35.		0.00	48.76	74.00			
	4	8104	.56	30.55	37.18	14.29	33.	33	0.00	48.69	74.00) -25.31	L Peak	
Туре			802.11	g	Test cl	nannel		CH0	1		Polarity		Vertical	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB		eamp B	Aux dB	Leve: dBuV;				
	1	1251		34.08	25.90	5.26	36.		0.00	28.74	74.00			
	2	3607		32.23	29.40	10.08	36.		0.00	34.75	74.00			
		4821		42.42	31.40	11.52	35.		0.00	50.10	74.00			
	4	7941	.19	30.06	36.88	14.47	33.	32	0.00	48.09	74.00	0 -25.93	1 Peak	
Туре			802.11	g	Test cl	nannel		CH0	6		Polarity		Horizontal	
-	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB		eamp B	Aux dB	Leve dBuV				
	1	1289	.89	34.25	25.98	5.39	36.		0.00	29.29	74.00			
	2	3824	.76	32.13	29.70	9.87	36.	97	0.00	34.73	74.00	39.27	7 Peak	
	3	4871	.10	40.52	31.40	11.51	35.	16	0.00	48.27	74.00	0 -25.73	3 Peak	
	4	8002	.06	31.04	37.10	14.29	33.	31	0.00	49.12	74.00	0 -24.88	8 Peak	
Туре			802.11	g	Test cl	nannel		CH0	6		Polarity		Vertical	
	Maink			Reading	Antonno	Cable			 A.usz	Leve	l Limi	t Ove	r Remark	
	ndrk		4Hz	dBuV/m	dB	dB		dB	dB	dBuV				
	1		3.88	33.64	25.93	5.30		.44	0.00	28.43		-		
	2		5.45	31.91	29.40	10.05		.98	0.00	34.38				
	3		1.10	42.24	31.40	11.51		.16	0.00	49.99				
	4	802	2.46	30.05	37.14	14.29	33	.31	0.00	48.17	74.0	0 -25.8	3 Peak	
Туре			802.11	g	Test cl	nannel		CH1	1		Polarity		Horizontal	
	Mark			Reading					Aux	Level				
		P	Hz	dBuV/m	dB	dB	d	в	dB	dBuV/	m dBuV/	m limi	t	
	1	۸ 1309	Hz .74	dBuV/m 33.15	dB 26.06	dB 5.43	d 36.	в 32	dB 0.00	dBuV/ 28.32	m dBuV/ 74.00	m limi -45.68	t Peak	
	1 2	۸ 1309 3507	Hz .74 .65	dBuV/m 33.15 32.14	dB 26.06 29.13	dB 5.43 9.55	d 36. 36.	в 32 64	dB 0.00 0.00	dBuV/ 28.32 34.18	m dBuV/ 74.00 74.00	m limi -45.68 -39.82	t Peak Peak	
	1 2 3	M 1309 3507 4920	Hz .74 .65 .96	dBuV/m 33.15 32.14 41.39	dB 26.06 29.13 31.44	dB 5.43 9.55 11.51	d 36. 36. 35.	B 32 64 21	dB 0.00 0.00 0.00	dBuV/ 28.32 34.18 49.13	m dBuV/ 74.00 74.00 74.00	m limi -45.68 -39.82 -24.87	t Peak Peak Peak	
Turce	1 2 3	۸ 1309 3507	Hz .74 .65 .96 .22	dBuV/m 33.15 32.14 41.39 30.24	dB 26.06 29.13 31.44 40.40	dB 5.43 9.55 11.51 16.65	d 36. 36. 35. 36.	B 32 64 21 81	dB 0.00 0.00 0.00 0.00	dBuV/ 28.32 34.18	m dBuV/ 74.00 74.00 74.00 74.00	m limi -45.68 -39.82	t Peak Peak Peak Peak	
Туре	1 2 3	M 1309 3507 4920	Hz .74 .65 .96	dBuV/m 33.15 32.14 41.39 30.24	dB 26.06 29.13 31.44 40.40	dB 5.43 9.55 11.51	d 36. 36. 35. 36.	B 32 64 21	dB 0.00 0.00 0.00 0.00	dBuV/ 28.32 34.18 49.13	m dBuV/ 74.00 74.00 74.00	m limi -45.68 -39.82 -24.87	t Peak Peak Peak	
Туре	1 2 3 4	N 1309 3507 4920 10833	Hz .74 .65 .96 .22 802.11	dBuV/m 33.15 32.14 41.39 30.24	dB 26.06 29.13 31.44 40.40 Test cl	dB 5.43 9.55 11.51 16.65 nannel	d 36. 36. 35. 36.	B 32 64 21 81 CH1	dB 0.00 0.00 0.00 0.00	dBuV/ 28.32 34.18 49.13	m dBuV/ 74.00 74.00 74.00 74.00 Polarity	m limi -45.68 -39.82 -24.87 -23.52	t Peak Peak Peak Peak Vertical	
Туре	1 2 3 4	N 1309 3507 4920 10833 Fre	Hz .74 .65 .96 .22 802.11	dBuV/m 33.15 32.14 41.39 30.24 g Reading	dB 26.06 29.13 31.44 40.40 Test cl	dB 5.43 9.55 11.51 16.65 nannel	d 36. 35. 36. 36.	B 32 64 21 81 CH1 eamp	dB 0.00 0.00 0.00 0.00 1	dBuV/ 28.32 34.18 49.13 50.48 Level	m dBuV/ 74.00 74.00 74.00 74.00 Polarity	m limi -45.68 -39.82 -24.87 -23.52 : Over	t Peak Peak Peak Vertical	
Туре	1 2 3 4	N 1309 3507 4920 10833 Fre	Hz .74 .65 .96 .22 802.11 quency	dBuV/m 33.15 32.14 41.39 30.24 g Reading	dB 26.06 29.13 31.44 40.40 Test cl Antenna	dB 5.43 9.55 11.51 16.65 nannel Cable	d 36. 35. 35. 36. Pr	B 32 64 21 81 CH1 eamp B	dB 0.00 0.00 0.00 1 Aux dB 0.00	dBuV/ 28.32 34.18 49.13 50.48 Level dBuV/ 28.83	m dBuV/ 74.00 74.00 74.00 74.00 Polarity Polarity L Limit (m dBuV/ 74.00	m limi -45.68 -39.82 -24.87 -23.52 : Over	t Peak Peak Peak Vertical	
Туре	1 2 3 4 : Mark	M 1309 3507 4920 10833 10833 Fre N 1333 3570	Hz .74 .65 .22 802.11 quency Hz .28 .71	dBuV/m 33.15 32.14 41.39 30.24 g Reading dBuV/m 33.55 32.26	dB 26.06 29.13 31.44 40.40 Test cl Antenna dB 26.20 29.34	dB 5.43 9.55 11.51 16.65 nannel Cable dB 5.46 9.93	d 36. 35. 36. Pr d 36. 36.	B 32 64 21 81 CH1 eamp B 38 85	dB 0.00 0.00 0.00 1 Aux dB 0.00 0.00	dBuV/ 28.32 34.18 49.13 50.48 Level dBuV/ 28.83 34.68	m dBuV/ 74.00 74.00 74.00 Polarity L Limit /m dBuV/ 74.00 74.00	m limi -45.68 -39.82 -24.87 -23.52 : Over : Over /m limi) -45.17) -39.32	t Peak Peak Peak Vertical Remark	
Туре	1 2 3 4 : Mark	M 1309 3507 4920 10833 Fre N 1333	Hz .74 .65 .96 .22 802.11 quency Hz .28 .71 .96	dBuV/m 33.15 32.14 41.39 30.24 g Reading dBuV/m 33.55	dB 26.06 29.13 31.44 40.40 Test cl Antenna dB 26.20 29.34	dB 5.43 9.55 11.51 16.65 nannel Cable dB 5.46	d 36. 35. 36. Pr d 36. 36. 35.	B 32 64 21 81 CH1 eamp B 38 85 21	dB 0.00 0.00 0.00 1 Aux dB 0.00 0.00 0.00	dBuV/ 28.32 34.18 49.13 50.48 Level dBuV/ 28.83	m dBuV/ 74.00 74.00 74.00 74.00 Polarity Polarity L Limit /m dBuV/ 74.00 74.00 74.00	m limi -45.68 -39.82 -24.87 -23.52 : Over : Over /m limi) -45.17	t Peak Peak Peak Vertical Remark t Peak Peak Peak	

Туре			802.11	In(HT20)	Test c	hannel		CHO	1		Polarity	/		Horizontal	
	Mark 1 2 3 4	125 360 483	equency MHz 7.47 7.26 4.05 4.56	Reading dBuV/m 34.48 31.96 40.19 30.59	Antenna dB 25.92 29.40 31.40 37.18	Cable dB 5.28 10.08 11.51 14.29		B 47 96 20	Aux dB 0.00 0.00 0.00 0.00	Level dBuV, 29.21 34.48 47.90 48.73		V/m 00 00 00	Over limi -44.79 -39.52 -26.10 -25.27	t Peak Peak Peak	
Туре	-	010		In(HT20)		hannel		CHO		40175	Polarity		25127	Vertical	
	1 2 3	N 1241 3579 4821	IHz 1.56 1.82 1.76	Reading dBuV/m 34.06 32.42 41.76	dB 25.85 29.36 31.40	dB 5.23 9.98 11.52	d 36. 36. 35.	B 53 88 24	Aux dB 0.00 0.00 0.00	Level dBuV/ 28.61 34.88 49.44	/m dBu 74. 74. 74.	V/m 00 00 00	Over limi -45.39 -39.12 -24.56	t Peak Peak Peak	
Туре	4	8063	1	30.62	37.20 Test c	14.28 hannel	33.	32 CH0	0.00 6	48.78	74. Polarity		-25.22	Peak Horizontal	
	Mark 1 2 3 4	1263 3634 4873	equency MHz 3.88 4.91 1.10 4.56		Antenna dB 25.93 29.40 31.40 37.18			eamp B 44 00 16	Aux dB 0.00 0.00 0.00 0.00	Leve dBuV, 28.81 34.30 46.64 49.76	l Lim /m dBu 74. 74.	it V/m 00 00 00	Over limi -45.19 -39.70 -27.36 -24.24	Remark t Peak Peak Peak	
Туре			802.11	In(HT20)	Test c	hannel		CH0	6		Polarity	/		Vertical	
	Mark 1 2 3 4		3.94 3.52	Reading dBuV/m 34.18 31.96 42.75 30.04	Antenna dB 25.78 29.38 31.40 37.14	Cable dB 5.19 10.03 11.50 14.29	36. 36. 36. 35.	90 18	Aux dB 0.00 0.00 0.00 0.00	Leve dBuV 28.57 34.47 50.47 48.16	/m dBu 74. 74. 74.	ıV/m .00 .00 .00	Over limi -45.43 -39.53 -23.53 -25.84	it 3 Peak 3 Peak 3 Peak	
Туре			802.11	In(HT20)	Test c	hannel		CH1	1		Polarity	/		Horizontal	
	1 2		.85 .96	Reading dBuV/m 34.26 32.77 36.04 29.94	Antenna dB 25.81 29.40 31.44 37.19	dB 5.21 9.82 11.51	d 36. 37. 35.	56 04 21		Level dBuV/ 28.72 34.95 43.78 48.10	(m dBu) 74.0 74.0 74.0	V/m 00 00 00	Over limi -45.28 -39.05 -30.22 -25.90	Peak Peak Peak	
Туре			802.11	In(HT20)	Test c	hannel		CH1	1		Polarity	/		Vertical	
	Mark 1 2 3 4	118 358 492	equency MHz 8.98 8.94 0.96 5.48	Reading dBuV/m 35.28 31.50 39.99 31.40	Antenna dB 25.56 29.38 31.44 37.70	Cable dB 5.08 10.03 11.51 15.33	36 36 36	IB .66 .90 .21	dB 0.00 0.00 0.00	Leve dBuV 29.26 34.01 47.73 49.68	/m dBu 74. 74. 74.	IV/m 00 00 00	Over limi -44.74 -39.99 -26.27 -24.32	t Peak Peak Peak	

Туре			802.1	1n(HT40)	Test	channel	C	H03		Polarity		Horizontal	
	Mark		quency		Antenna				Level		Over	Remark	
	1	1263.	Hz 88	dBuV/m 34.20	dB 25.93	dB 5.30	dB 36.44	dB 0.00	dBuV/ 28.99	m dBuV/m 74.00	limit -45.01	Peak	
	2	3176		33.28	28.95	8.70	37.09	0.00	33.84	74.00	-40.16	Peak	
	3	4858			31.40	11.51	35.13	0.00	46.48	74.00	-27.52	Peak	
	4	8083	.96	30.23	37.20	14.27	33.32	0.00	48.38	74.00	-25.62	Peak	
Туре			802.1	1n(HT40)	Test	channel	C	H03		Polarity		Vertical	
	Marek	 Eno		Deading	Antonna	Cable	Broom		Loval	Limit	0		
	малк		quency Hz	Reading dBuV/m	dB	Cable dB	Pream dB	p Aux dB	Level dBuV/r		Over limit	Remark	
	1	1254		34.75	25.91	5.27	36.48	0.00	29.45		-44.55	Peak	
	2	3644		31.22	29.40	9.96	37.01	0.00	33.57	74.00	-40.43	Peak	
	3	4858	.72	40.87	31.40	11.51	35.13	0.00	48.65	74.00	-25.35	Peak	
	4	8063	.40	30.51	37.20	14.28	33.32	0.00	48.67	74.00	-25.33	Peak	
Туре			802.1	1n(HT40)	Test	channel	C	H06		Polarity		Horizontal	
	Mark			Reading					Level		Over		
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/				
	1 2	1232 3561		34.33 31.77	25.79 29.32	5.20 9.87	36.57 36.83	0.00 0.00	28.75 34.13	74.00 74.00	-45.25		
	3	4895		41.77	31.40	11.50	35.21	0.00	49.46	74.00	-24.54		
	4	8703		30.43	37.70	15.17		0.00	48.59	74.00	-25.41		
Туре			802.1	1n(HT40)	Test	channel	С	H06		Polarity		Vertical	
Туре			802.1	1n(HT40)	Test	channel	C	H06		Polarity		Vertical	
Туре	Mark		quency	Reading	Antenn	a Cable	e Prea	mp Aux	Leve	l Limit		r Remark	
Туре		P	quency Hz	Reading dBuV/m	Antenna dB	a Cable dB	e Prea dB	mp Aux dB	dBuV	l Limit //m dBuV/	m lim	r Remark it	
Туре	1	۸ 1132	quency Hz 2.84	Reading dBuV/m 35.61	Antenni dB 25.40	a Cable dB 5.01	e Prea dB 36.82	mp Aux dB 0.00	dBuV 29.20	1 Limit //m dBuV/ 74.00	m lim -44.8	r Remark it 0 Peak	
Туре	1 2	۸ 1132 3552	quency Hz 2.84 2.58	Reading dBuV/m 35.61 32.10	Antenn: dB 25.40 29.31	a Cable dB 5.01 9.82	e Prea dB 36.82 36.80	mp Aux dB 0.00 0.00	dBuV 29.20 34.43	1 Limit //m dBuV/ 74.00 74.00	m lim -44.8 -39.5	r Remark it 0 Peak 7 Peak	
Туре	1 2 3	M 1132 3552 4895	equency Hz 2.84 2.58 5.97	Reading dBuV/m 35.61 32.10 40.29	Antenna dB 25.40 29.31 31.40	a Cable dB 5.01 9.82 11.50	Prea dB 36.82 36.80 35.21	mp Aux dB 0.00 0.00 0.00	dBuV 29.20 34.43 47.98	l Limit /m dBuV/ 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0	r Remark it 0 Peak 7 Peak 2 Peak	
Туре	1 2	۸ 1132 3552	equency Hz 2.84 2.58 5.97	Reading dBuV/m 35.61 32.10	Antenn: dB 25.40 29.31	a Cable dB 5.01 9.82	e Prea dB 36.82 36.80	mp Aux dB 0.00 0.00	dBuV 29.20 34.43 47.98	l Limit /m dBuV/ 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0	r Remark it 0 Peak 7 Peak 2 Peak	
Туре	1 2 3	M 1132 3552 4895	equency Hz 2.84 2.58 5.97 3.29	Reading dBuV/m 35.61 32.10 40.29	Antenn: dB 25.40 29.31 31.40 37.70	a Cable dB 5.01 9.82 11.50	e Prea dB 36.82 36.80 35.21 34.71	mp Aux dB 0.00 0.00 0.00	dBuV 29.20 34.43 47.98	l Limit /m dBuV/ 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0	r Remark it 0 Peak 7 Peak 2 Peak	
	1 2 3 4	N 1132 3552 4895 8703	equency Hz 2.84 2.58 3.97 3.29 802.1	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40)	Antenni dB 25.40 29.31 31.40 37.70 Test o	Cable dB 5.01 9.82 11.50 15.17 Channel	Prea dB 36.82 36.80 35.21 34.71 C	mp Aux dB 0.00 0.00 0.00 0.00 H09	dBuV 29.20 34.43 47.98 49.42	1 Limit //m dBuV/ 74.00 74.00 74.00 74.00 74.00 Polarity	m lim -44.8 -39.5 -26.0 -24.5	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal	
	1 2 3 4	M 1132 3552 4895 8703	quency Hz 2.84 2.58 3.97 3.29 802.1 quency	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading	Antenni dB 25.40 29.31 31.40 37.70 Test of Antenna	a Cable dB 5.01 9.82 11.50 15.17 channel Cable	e Prea dB 36.82 36.80 35.21 34.71 C Pream	mp Aux dB 0.00 0.00 0.00 0.00 HO9	dBuV 29.20 34.43 47.98 49.42 Leve	l Limit //m dBuV/ 74.00 74.00 74.00 74.00 Polarity	m lim -44.8 -39.5 -26.0 -24.5	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal	
	1 2 3 4	M 1132 3552 4895 8703	quency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40)	Antenni dB 25.40 29.31 31.40 37.70 Test o	Cable dB 5.01 9.82 11.50 15.17 Channel	Prea dB 36.82 36.80 35.21 34.71 C	mp Aux dB 0.00 0.00 0.00 0.00 H09	dBuV 29.20 34.43 47.98 49.42	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/m	m lim -44.8 -39.5 -26.0 -24.5	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark	
	1 2 3 4 Mark	M 1132 3552 4895 8703 Fre M	quency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz .37	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB	a Cable dB 5.01 9.82 11.50 15.17 channel chanel dB	e Prea dB 36.82 36.80 35.21 34.71 C Prea dB	mp Aux dB 0.00 0.00 0.00 0.00 HO9 HO9	dBuV 29.20 34.43 47.98 49.42 Leve dBuV	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/m	m lim -44.8 -39.5 -26.0 -24.5 Over n limi	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark it 3 Peak	
	1 2 3 4 Mark	M 1132 3552 4895 8703 Fre M 1121	quency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz .37 .03	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66	a Cable dB 5.01 9.82 11.50 15.17 channel channel dB 5.00	e Prea dB 36.82 36.80 35.21 34.71 C Prea dB 36.85 37.00	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 0.00 0.00	dBuV 29.20 34.43 47.98 49.42 Leve dBuV, 29.47 34.02	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00	m lim -44.8 -39.5 -26.0 -24.5 Over n limi -44.53 -39.98	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark it 3 Peak 8 Peak	
	1 2 3 4 Mark 1 2	M 1132 3552 4895 8703 Fre M 1121 3815	quency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz .37 .03 .96	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66	a Cable dB 5.01 9.82 11.50 15.17 channel channel dB 5.00 9.86 11.51	e Prea dB 36.82 36.80 35.21 34.71 C Prea dB 36.85 37.00	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 0.00 0.00 0.00 0.00	dBuV 29.20 34.43 47.98 49.42 Leve dBuV, 29.47 34.02	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 Over n lim -44.53 -39.98 -28.72	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark t 3 Peak 2 Peak 2 Peak	
	1 2 3 4 Mark 1 2 3	M 1132 3552 4895 8703 Fre M 1121 3815 4920	quency Hz 2.58 3.29 802.1 quency Hz .37 .03 .96 .48	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70	a Cable dB 5.01 9.82 11.50 15.17 channel channel dB 5.00 9.86 11.51	Prea dB 36.82 36.80 35.21 34.71 C Prea dB 36.85 37.00 35.21 34.75	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 0.00 0.00 0.00 0.00	dBuV 29.20 34.43 47.98 49.42 Leve dBuV, 29.47 34.02 45.28	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 Over n lim -44.53 -39.98 -28.72	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark t 3 Peak 2 Peak 2 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725	equency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz .37 .03 .96 .48 802.1	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40)	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of	a Cable dB 5.01 9.82 11.50 15.17 channel dB 5.00 9.86 11.51 15.33 channel	Prea dB 36.82 36.80 35.21 34.71 C Prea dB 36.85 37.00 35.21 34.75 C	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9	dBuV 29.20 34.43 47.98 49.42 Leve dBuV 29.47 34.02 45.28 48.74	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 -24.5 Over n limi -44.5 -39.98 -28.72 -25.26	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark t 3 Peak 2 Peak 5 Peak 5 Peak 5 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725	equency Hz 2.84 2.58 3.97 3.29 802.1 quency Hz .37 .03 .96 .48 802.1	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40) Reading	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of Antenna	Cable dB 5.01 9.82 11.50 15.17 channel dB 5.00 9.86 11.51 15.33 channel Cable Cable	Pream dB 36.82 36.80 35.21 34.71 C Pream dB 36.85 37.00 35.21 34.75 C Pream	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 HO9	dBuV 29.20 34.43 47.98 49.42 Leve dBuV 29.47 34.02 45.28 48.74 Level	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 Over n lim -44.5 -39.98 -28.72 -25.20	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak 8 Peak Horizontal 7 Remark t 3 Peak 9 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725	equency Hz 2.84 2.58 3.29 802.1 48 2.58 3.97 3.29 802.1 48 802.1 equency Hz equency Hz	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40) Reading dBuV/m	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of Antenna dB	Cable dB 5.01 9.82 11.50 15.17 channel dB 5.00 9.86 11.51 15.33 channel Cable dB	Prea dB 36.82 36.80 35.21 34.71 C Prea dB 36.85 37.00 35.21 34.75 C Pream dB	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 HO9 P Aux dB	dBuV 29.20 34.43 47.98 49.42 Leve dBuV 29.47 34.02 45.28 48.74 Level dBuV/r	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 Over limit -44.53 -39.98 -28.72 -25.20	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak Horizontal Remark t 3 Peak 2 Peak 5 Peak 5 Peak 5 Peak 5 Peak 5 Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725 C Fre M 1289	equency Hz 2.84 2.58 3.29 802.1 quency Hz .37 .03 .96 .48 802.1 equency Hz .89	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40) Reading dBuV/m 32.80	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of Antenna dB 25.98	Cable dB 5.01 9.82 11.50 15.17 channel dB 5.00 9.86 11.51 15.33 channel cable dB 5.39	Pread 36.82 36.80 35.21 34.71 C Pread dB 36.85 37.00 35.21 34.75 C Pread dB 36.85 37.00 35.21 34.75	mp Aux dB 0.00 0.00 0.00 HO9 HO9 HO9 HO9 HO9 Aux dB 0.00 HO9	dBuV 29.20 34.43 47.98 49.42 Leve dBuV 29.47 34.02 45.28 48.74 Level dBuV/r 27.84	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 -24.5 -24.5 -39.98 -28.72 -25.26 	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak 8 Peak Horizontal Remark t 3 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725 C Fre M 1289 4024	equency Hz 2.84 2.58 3.29 802.1 quency Hz .37 .03 .96 .48 802.1 equency Hz .89 .52	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40) Reading dBuV/m 32.80 31.18	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of Antenna dB 25.98 29.95	Cable dB 5.01 9.82 11.50 15.17 channel Cable dB 5.00 9.86 11.51 15.33 channel Cable dB 5.39 10.19	Pread dB 36.82 36.80 35.21 34.71 C Pread dB 36.85 37.00 35.21 34.75 C Pread dB 36.33 36.29	mp Aux dB 0.00 0.00 0.00 HO9 hp Aux dB 0.00 0.00 0.00 HO9 hux dB 0.00 0.00	dBuV 29.20 34.43 47.98 49.42 Level dBuV 29.47 34.02 45.28 48.74 Level dBuV/r 27.84 35.03	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 -24.5 -24.5 -39.98 -28.72 -25.20 	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak 8 Peak Horizontal 7 Remark 1 3 Peak 9 Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 3 4	M 1132 3552 4895 8703 Fre M 1121 3815 4920 8725 C Fre M 1289	equency Hz 2.84 2.58 3.29 802.1 quency Hz .37 .03 .96 .48 802.1 equency Hz .89 .52 .96	Reading dBuV/m 35.61 32.10 40.29 31.26 1n(HT40) Reading dBuV/m 35.92 31.50 37.54 30.46 1n(HT40) Reading dBuV/m 32.80	Antenna dB 25.40 29.31 31.40 37.70 Test of Antenna dB 25.40 29.66 31.44 37.70 Test of Antenna dB 25.98	Cable dB 5.01 9.82 11.50 15.17 channel dB 5.00 9.86 11.51 15.33 channel cable dB 5.39	Pream dB 36.82 36.80 35.21 34.71 C Pream dB 36.85 37.00 35.21 34.75 C Pream dB 36.33 36.29 35.21	mp Aux dB 0.00 0.00 0.00 HO9 hp Aux dB 0.00 0.00 0.00 HO9 hux dB 0.00 0.00 0.00 0.00	dBuV 29.20 34.43 47.98 49.42 Leve dBuV 29.47 34.02 45.28 48.74 Level dBuV/r 27.84	l Limit //m dBuV// 74.00 74.00 74.00 74.00 Polarity l Limit /m dBuV/n 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	m lim -44.8 -39.5 -26.0 -24.5 -24.5 -24.5 -39.98 -28.72 -25.20 	r Remark it 0 Peak 7 Peak 2 Peak 8 Peak 8 Peak Horizontal Remark t 3 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	

6. TEST SETUP PHOTOS

Radiated Emission



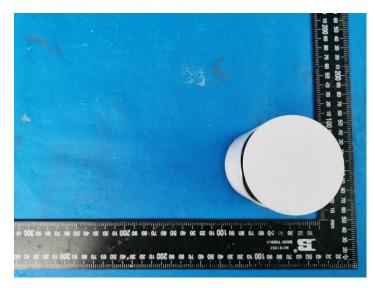
AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

External photos of EUT

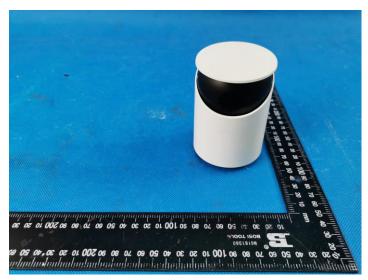




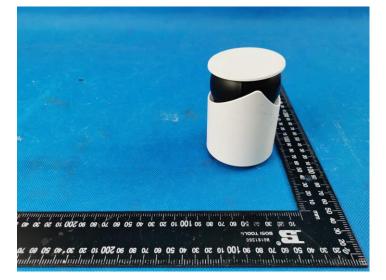




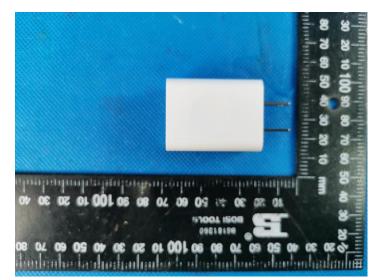




Shenzhen Huatongwei International Inspection Co., Ltd.



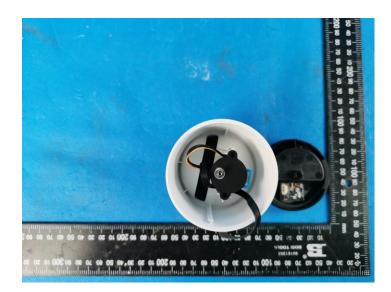


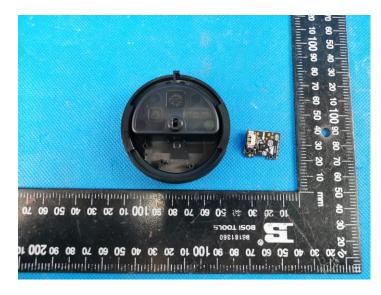


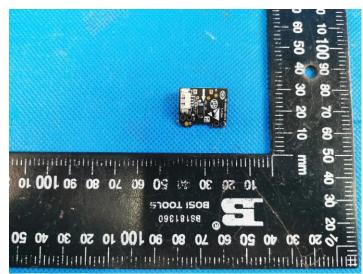
Shenzhen Huatongwei International Inspection Co., Ltd.

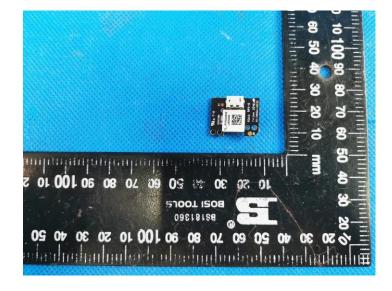


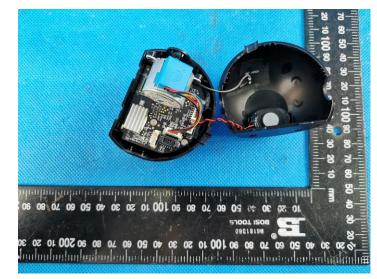
Internal photos of EUT

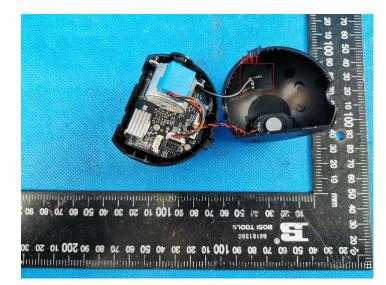


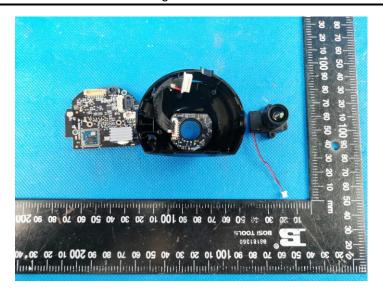


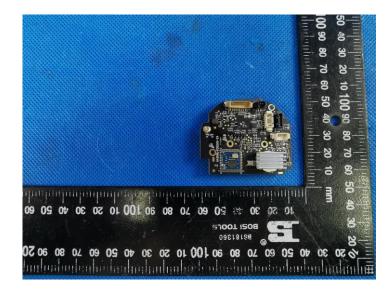


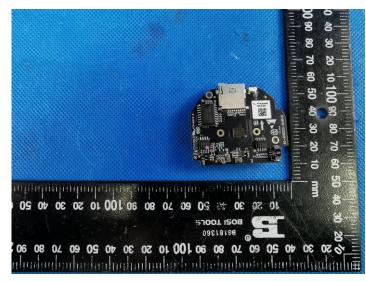


















8. APPENDIX REPORT