

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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TEST REPORT

Application No.:	SHCR2201000067AT
FCC ID:	2AC8UA2161
Applicant:	Anhui Huami Information Technology Co., Ltd.
Address of Applicant:	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City Anhui Pilot Free Trade Zone, China
Manufacturer:	Anhui Huami Information Technology Co., Ltd.
Address of Manufacturer:	7/F, Building B2, Huami Global Innovation Center, No. 900, Wangjiang West Road, High-tech Zone, Hefei City Anhui Pilot Free Trade Zone, China
Equipment Under Test (EU	т):
EUT Name:	Smart Watch
Model No.:	A2161
Trade mark:	ZEPP
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-04-13
Date of Test:	2021-06-16 to 2021-07-10
Date of Issue:	2022-01-14
Test Result:	Pass*

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

parlan shan

Parlam Zhan Laboratory Manager



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Revision Record								
Version	Description	Date	Remark					
1.Change the FCC ID 2.Change the trade mark, model and surface photos		2022-01-14	Base on SHEM210400289601					

Authorized for issue by:		
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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	tandard Method		Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part						
ltem	Standard	Method	Requirement	Result		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Conducted Peak Output Power	,		47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		

Note: This report was an additional report copied from the report SHEM210400289601, just changing the FCC ID, trade mark, model and surface photos.



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General Information 4

4.1 Details of E.U.T.

Power supply:	DC 3.87V Recharge lithium battery
	Battery charged by AC Adapter
	Battery Mode:PL582624 1ICP6/26/22
	Rated Capacity:440mAh/1.74Wh
	Typical Capacity:450mAh/1.74Wh
	Nominal Voltage:3.87V
	Charging limit voltage:4.45V
Test voltage:	DC 3.87V
Cable:	Charging case
	Model: A2103C
Antenna Gain:	-5.58dBi(Provided by manufacturer)
Antenna Type:	Slot Antenna
Channel Spacing:	5MHz
Data Rate:	802.11b:1/2/5.5./11Mbps
	802.11g:6/9/12/18/24/36/48/54Mbps
	802.11n:MCS0-MCS7
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz

4.2 Power level setting using in test

Channel	802.11b	802.11g	802.11n20
1	20	16	16
6	20	17	17
11	20.5	16	16

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	Y7000	N/A



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4.4 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	PE Dedicted Dovrer	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dedicted Spurious Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
RF	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz \sim 5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz \sim 5930 MHz $)$	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz \sim 5350 MHz $)$	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz \sim 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R



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23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Slot Antenna and no consideration of replacement. The best case gain of the antenna is -5.58dBi.

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

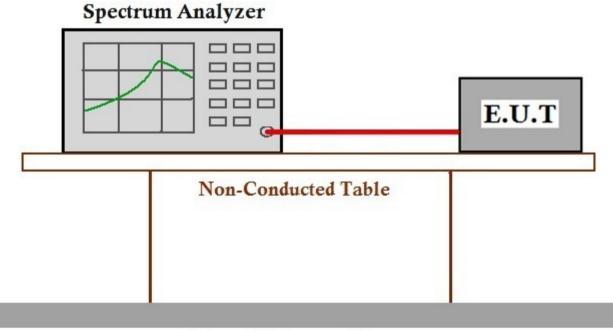
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1008mbarTest moded:TX mode_Keep the EUT in continuously transmitting mode with all modulation
types. All data rates for each modulation type have been tested and found the
data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the
worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE
802.11n(HT20).Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100006701



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7.2 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1Limit:Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850	1 for frequency hopping systems and digital modulation		



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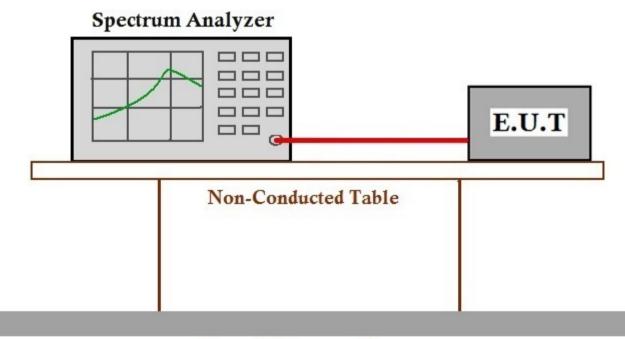


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7.2.1 E.U.T. Operation

Operating Enviro	onment:			
Temperature:	25 °C	Humidity: 4	9 % RH	Atmospheric Pressure: 1008 mbar
Test mode	types. All data data rate @ 1 worst case of	a rates for each r Mbps is the wors IEEE 802.11g; c	nodulation ty st case of IE lata rate @ 0	v transmitting mode with all modulation ype have been tested and found the EE 802.11b; data rate @ 6Mbps is the 6.5Mbps is the worst case of IEEE se is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100006701



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7.3 Power Spectrum Density

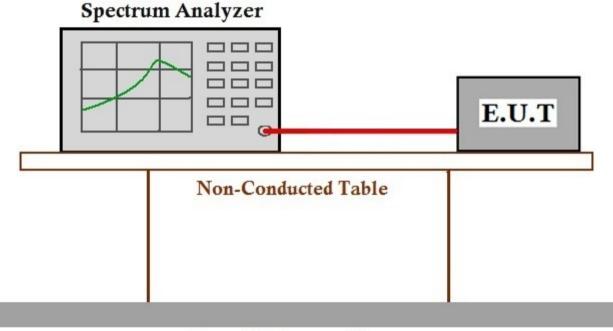
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous
	transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1008mbarTest moded:TX mode_Keep the EUT in continuously transmitting mode with all modulation
types. All data rates for each modulation type have been tested and found the
data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the
worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE
802.11n(HT20).Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100006701



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7.4 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) **Test Requirement** Test Method: ANSI C63.10 (2013) Section 11.13.3.2 Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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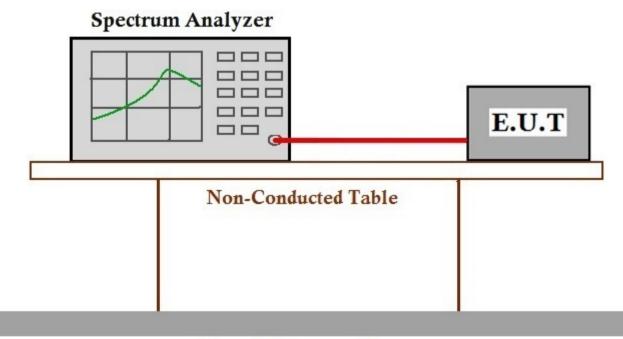


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7.4.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25 °C	Humidity:	49	% RH	Atmospheric Pressure: 1008 mbar
Test mode	types. All dat data rate @ worst case o	a rates for eac 1Mbps is the w f IEEE 802.11	ch mo /orst ₀ g; dat	dulation ty case of IE a rate @ 6	transmitting mode with all modulation ype have been tested and found the EE 802.11b; data rate @ 6Mbps is the 6.5Mbps is the worst case of IEEE e is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100006701



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7.5 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)



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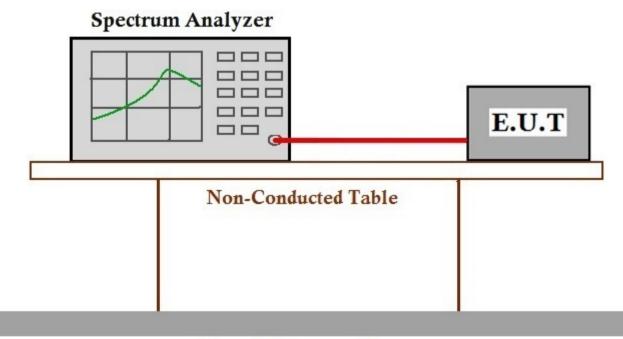
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7.5.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008	mbar
Test mode	d:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is t worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.	;

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100006701



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7.6 Radiated Emissions which fall in the restricted bands

 Test Requirement
 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

 Test Method:
 ANSI C63.10 (2013) Section 6.10.5

 Limit:
 Ansi C63.10 (2013) Section 6.10.5

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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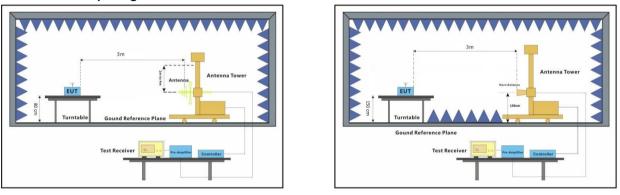


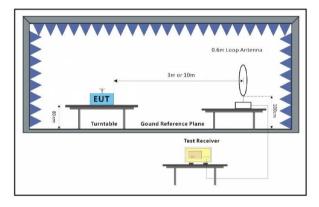
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7.6.1 E.U.T. Operation

Operating Enviro	onment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008 mba	ar
Test mode	d:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.	

7.6.2 Test Setup Diagram







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7.6.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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No.	Fre	quency	Readin	g	Correc			esult	,		imit	Ma	argin				Rem	lark	
1		MHz) 84.060	(dBuV) 54.90	_	factor(d -7.3			BuV/m) 7.55	+(<u>uV/m)</u> 4.00		IB) 6.45	+			pea	ak	
2		90.000	52.62		-7.3			5.28	+		4.00		8.72	+			· ·		
3		10.660	103.32		-7.2			6.05	+		4.00		2.05	+		peak peak			

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



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1	l20.0 dBu∀/m								_		
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	2310.000232	1.00 2338.0	0 2352.00	2356.00 2	380.00 239	1.00 2408	.00 2122	2.00 2150.00	MHz		
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark			
4	(MHz)	(dBuV) 55.42	factor(dB/m) -7.40	(dBuV/m) 48.02	(dBuV/m) 74.00	(dB) -25.98		naak			
1	2360.540 2390.000	55.42	-7.40			-25.90		peak			
				46.89	74.00			peak			
3	2410.660	101.04	-7.27	93.77	74.00	19.77	peak				

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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No.	F	requenc	су	Reading			tion		lesult		Limi		Margii	n			Rem	nark	
		(MHz)		(dBuV)	facto				BuV/m)	(dBuV		(dB)						
1		2460.65		105.09		7.1			7.97		74.0		23.97				pea		
2	1	2483.50	0	53.76		7.0			6.70		74.0	0	-27.3				pea	ak	
3	1	2490.80	0	54.42	-	7.0	4	4	7.38		74.0	0	-26.6	2			pea	ak	
4	1	2500.00	0	53.50	-1	7.0	0	4	6.50		74.0	0	-27.5)			pea	ak	

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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	2450.000 246	5.00 2480.0	10 2495.00	2510.00 2	525.00 254	0.00 2555.	.00 2570.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	2460.500	101.13	-7.12	94.01	74.00	20.01	p	eak
2	2483.500	52.97	-7.06	45.91	74.00	-28.09		eak
3	2490.500	54.33	-7.04	47.29	74.00	-26.71		eak
4	2500.000	52.65	-7.00	45.65	74.00	-28.35	p	eak

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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	23	810.0002324	1.00 2338	3.00 2.	352.00	236	6.00 2	380	0.00	239	1.00 24	08.00 242	2.00	2150.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Corr	ection (dB/m)		esult BuV/m)		Lim dBuV		Margin (dB)		Ren	nark	
1	2	2387.560	57.10		(db/m) 7.34		9.76	- (74.0		-24.24		pe	ak	
2	2	2390.000	56.88	-7	.34	4	9.54		74.0	0	-24.46			ak	
3	2	2408.700	104.09	-7	.28	9	6.81		74.0	0	22.81		pe	ak	

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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No.	(MHz) (dBuV)		9	Correction factor(dB/m			esult 3uV/m)		imit uV/m)	M	argin dB)			Ren	nark			
1	2384.0		55.83		-7.3			8.48	1		4.00	-	25.52			ре	ak		
2	2390.0	00	54.50		-7.3	84	4	7.16		74	4.00	-2	26.84			ре	ak		
3	2409.5	40	101.03		-7.2	8	9	3.75		74	4.00	1	9.75			ре	ak		

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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No.	F	requei (MHz		Reading (dBuV)		ctor(c			lesult BuV/m)	(Limit dBuV/m)	Margin (dB)			R	emark	
1	1	2458.7	700	103.19		-7.1			6.06		74.00		22.06			I	peak	
2		2483.5		53.86		-7.0			6.80		74.00		-27.20			I	peak	
3		2488.7		54.98		-7.0)4	4	7.94		74.00		-26.06				peak	
4	1	2500.0	000	52.94		-7.(00	4	5.94		74.00		-28.06				peak	

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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No.	F	reque (MH;		Reading (dBuV)		Correct factor(d			lesult BuV/m)		Limit dBuV/m)	Marg (dB)				Rem	ark	
1	1	2458.		100.59		-7.1			3.45	Τ	74.00	19.4				pea	ık	
2	1	2483.	500	53.86		-7.0)6	4	6.80		74.00	-27.2	20			pea	ık	
3	1	2486.	300	54.78		-7.0)5	4	7.73	\top	74.00	-26.2	27			pea	ık	
4	1	2500.	000	52.85		-7.0	0	4	5.85		74.00	-28.1	5			pea	ık	

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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	2310.000232	4.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2408	00 2422.0	0 2150.00 Mł	12	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark		
1	2386.860	56.16	-7.34	48.82	74.00	-25.18		peak		
2	2390.000	56.58	-7.34	49.24	74.00	-24.76		peak		
3	2409.540	103.28	-7.28	96.00	74.00	22.00		peak		

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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0.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark		
	1	2386.860	58.18	-7.34	50.84	74.00	-23.16		peak		
	1	2390.000	58.00	-7.34	50.66	74.00	-23.34		peak		
	_	2410.520	102.41	-7.27	95.14	74.00	21.14				

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



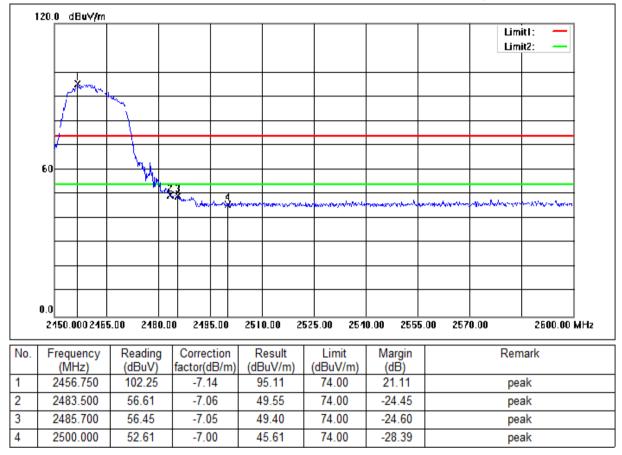
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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	2	2500.0	00	52.42		-7.0	0	4	5.42		74.00	-28.58			pea	ak	

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d) ANSI C63.10 (2013) Section 6.4,6.5,6.6 Test Method: Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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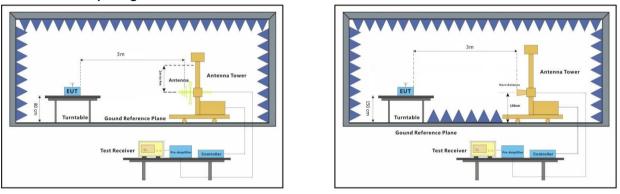


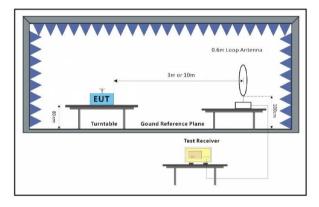
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7.7.1 E.U.T. Operation

Operating Environment:							
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008 m	nbar					
Test mode	d:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is th worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.						

7.7.2 Test Setup Diagram







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7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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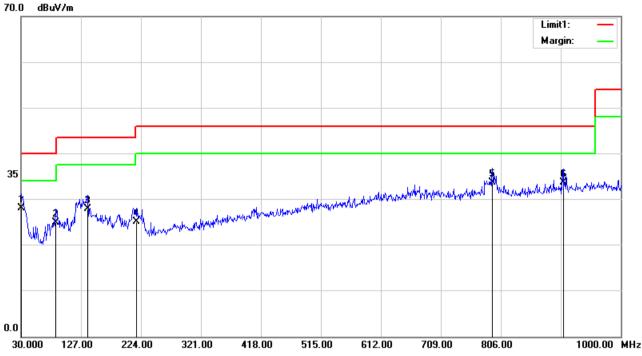
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30MHz-1GHz Polarization:Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	2.23	25.93	28.16	40.00	-11.84	200	302	QP
2	86.2600	8.66	16.22	24.88	40.00	-15.12	200	172	QP
3	137.6700	8.21	19.74	27.95	43.50	-15.55	200	1	QP
4	217.2100	7.77	17.31	25.08	46.00	-20.92	100	339	QP
5	792.4200	5.97	27.78	33.75	46.00	-12.25	100	337	QP
6	906.8800	4.91	28.76	33.67	46.00	-12.33	200	276	QP



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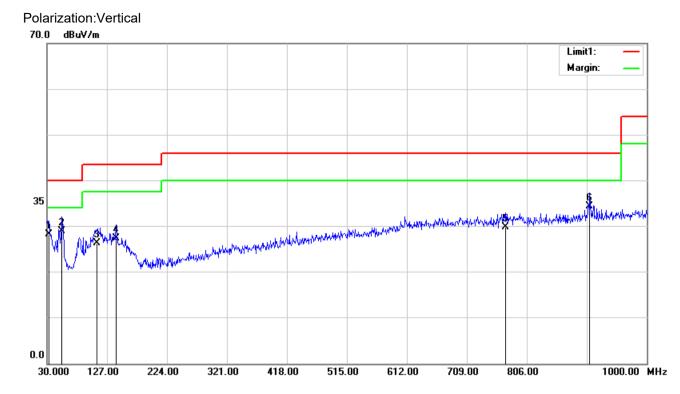
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.9100	3.96	24.27	28.23	40.00	-11.77	100	0	QP
2	54.2500	15.44	13.61	29.05	40.00	-10.95	100	242	QP
3	110.5100	7.50	18.85	26.35	43.50	-17.15	100	279	QP
4	141.5500	7.58	19.86	27.44	43.50	-16.06	200	332	QP
5	772.0500	2.29	27.63	29.92	46.00	-16.08	100	37	QP
6	907.8500	5.54	28.77	34.31	46.00	-11.69	200	5	QP



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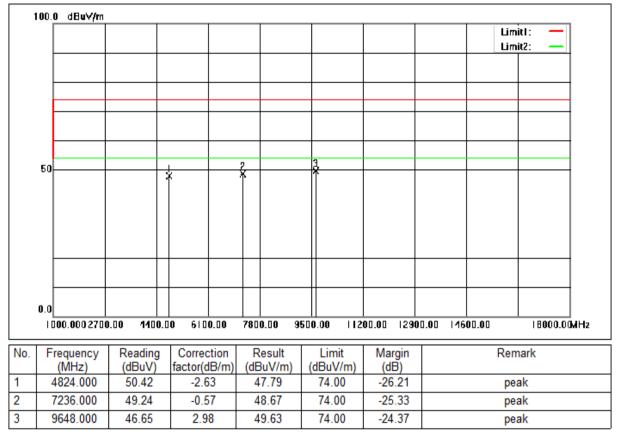


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Above 1GHz

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low





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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



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+		86.000	49.13		-0.5			8.61		74.00	-25.39			peak	
+		48.000	47.91		2.8			0.72		74.00	-23.28			peak	

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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2		7386.000	48.89		-0.5	2	4	8.37			4.00		6.63				ре	ak		
3	9	9848.000	47.68		2.8	1	5	0.49		7	4.00	-23	8.51				pe	ak		

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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		(MHz)	(dBuV)		factor(d	IB/m)	(dE	BuV/m)		(dBuV/m)	(dE	3)					
1		4844.000	50.69		-2.5			8.12		74.00	-25.				pea		
2	1	7266.000	49.60		-0.5	6	4	9.04		74.00	-24.				pea	ik	
3	9	9688.000	47.32		2.8	7	5	60.19		74.00	-23.	.81			pea	ik	

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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		(MHz)	(dBuV)	fac	ctor(d	B/m)	(dE	BuV/m)	(dBuV/m)	(dB)						
1		4844.000	49.91		-2.5			7.34		74.00	-26.66				pea		
2		7266.000	48.83		-0.5			8.27		74.00	-25.73				pea	ak	
3	9	9688.000	46.90		2.8	7	4	9.77		74.00	-24.23	}			pea	ak	

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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2		7311.000	48.92	-0.5			8.37		74.00	-25.63	+		pea		
3	9	9748.000	46.63	2.7	0	4	9.33		74.00	-24.67			pea	ik	

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



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		(MHz)	(dBuV)	factor(c	lB/m)	(dE	BuV/m)	(0	lBuV/m)	(dB)					
1		4874.000	50.08	-2.4			7.59		74.00	-26.41			pea	ak	
2		7311.000	49.26	-0.5			8.71		74.00	-25.29			pea	ak	
3		9748.000	47.48	2.7	0	5	0.18		74.00	-23.82			pea	ak	

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



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1	4	4904.000	49.59	-2.4	1	4	7.18	74.00	-26.82		pe	ak	
2	1	7356.000	49.12	-0.5	3	4	8.59	74.00	-25.41		pe	ak	
3	Ş	9808.000	47.83	2.5	9	5	0.42	74.00	-23.58		pe	ak	

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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1		4904.000	50.07	-2.4			7.66		74.00		5.34			pea		
2		7356.000	49.81	-0.5			9.28	-	74.00		4.72			pea		
3		9808.000	47.28	2.5	9	4	9.87		74.00	-24	4.13			pea	ak	

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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\dashv	9648.000 46.67 2.							9.65		74.00	-24				-	ak		

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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		7236.000	49.18	-0.5			8.61		74.00	-25.39		peak peak			
		9648.000	47.20	2.9	0	5	0.18		74.00	-23.82			pea	ак	

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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		100.0002700).00 110	0.0	0 610	0.00	780	0.00	950	0.0	DO 112	200.00	1 129	00.00	146	00.00			8000.0	∐ MHz
No.	F	requency (MHz)	Reading (dBuV)	3	Correct factor(d			lesult BuV/m)			Limit 3uV/m)	M	argin dB)				Ren	nark		
1	4	4874.000	49.87		-2.4			7.38	-		74.00		26.62	+			pe	ak		
2		7311.000	49.24		-0.5		4	8.69	+	7	74.00		25.31	+				ak		
3	9	9748.000	48.02		2.7	0	5	0.72		7	74.00	-2	23.28	1			pe	ak		

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



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1		4874.000	49.50	-2.4			7.01		74.00	-26.99				eak	
2		7311.000	49.34	-0.5			8.79		74.00	-25.21				eak	
3		9748.000	47.19	2.7	0	4	9.89		74.00	-24.11			p	eak	

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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_		(MHz) 924.000	(dBuV) 49.86		factor(d -2.3			BuV/m) 7.51	(0		uV/m) 4.00	(dE 26	5) .49				ak	
_		386.000	49.00 50.09		-2.3			9.57	-		4.00	-20			peak peak			
		848.000	46.98		-0.5			9.79	-		4.00	-24			peak			
	9	040.000	40.90		2.0	1	4	9.19		14	4.00	-24	.21			pe	ar	

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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No.	F	requency	ency Reading Correc							Limit	Margi	n			Remark			
1	4	(MHz) (dBuV) 4924.000 50.51		-	factor(dB/r -2.35			(dBuV/m) 48.16		(dBuV/m) 74.00		(dB) -25.84				peak		
2		7386.000 48.81			-0.52		48.29		74.00			-25.7				pea		
3	9848.000 47.67				2.8	1	50.48			7	74.00 -23.52 peak			ak				

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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