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TEST REPORT

Application No.:	SHEM2108008609CR
FCC ID:	2AZSCEC-3816S
Applicant:	DeepBlue Technology (Shanghai) Co.,Ltd
Address of Applicant:	9 / F, binggu building, Weining Road, Changning District, Shanghai,China
Manufacturer:	DeepBlue Technology (Shanghai) Co.,Ltd
Address of Manufacturer:	9 / F, binggu building, Weining Road, Changning District, Shanghai,China
Factory:	DeepBlue Robotics (changzhou) Co.,Ltd
Address of Factory:	No. 8, Hongyang Road, Tianning District, Changzhou City
Equipment Under Test (EU	Т):
EUT Name:	Wireless Module
Model No.:	EC-3816S
Trade mark:	LG
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-08-03
Date of Test:	2021-08-21 to 2021-09-06
Date of Issue:	2021-09-11
Test Result:	Pass*

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

parlan shan

Parlam Zhan Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record					
Version Description Date Remark					
00	Original	2021-09-11	/		

Authorized for issue by:	
	Bril WU
	Bill Wu / Project Engineer
	parlam zhan
	Parlam Zhan / Reviewer



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2 **Test Summary**

Radio Spectrum Technical Requirement				
Item	Item Standard Method		Requirement	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				
Item	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 Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	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



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General Information 4

4.1 Details of E.U.T.

Power Supply:	DC 3.3V	
Antenna Gain:	Antenna1: 3dBi (Provided by manufacturer)	
	Antenna2: 3dBi (Provided by manufacturer)	
	Directional gain: 6dBi	
Antenna Type:	Antenna1: PIFA Antenna	
	Antenna2: PIFA Antenna	
Channel Spacing:	5MHz	
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	
	802.11n(HT40):7	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz	
	802.11n(HT40): 2422MHz to 2452MHz	
Date Rate:	802.11b:1/2/5.5./11Mbps	
	802.11g:6/9/12/18/24/36/48/54Mbps	
	802.11n:MCS0-MCS7	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
4K Monitor	AOC	280LM00004	/
Serial port adapter plate	/	1	/

4.3 Power level setting using in test

	er ierer eening					
Channel	802.11b	802.11b	802.11g	802.11g	802.11n(HT20)	802.11n(HT20)
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	12	12	9.5	9.5	6	6
6	12	12	10	10	6	6
11	12	12	9.5	9.5	6.25	6.25
Channel	802.11n(HT40)	802.11n(HT40)				
Channel	Ant 1	Ant 2				
3	6.25	6.25				
6	6.25	6.25				
9	6.25	6.25				



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No. Item **Measurement Uncertainty** 8.4 x 10⁻⁸ 1 Radio Frequency 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 0.75dB Conducted Spurious emissions 4.2dB (Below 1GHz) 8 **RF** Radiated power 4.1dB (Above 1GHz) 4.2dB (Below 30MHz) 4.6dB (30MHz-1GHz) 9 Radiated Spurious emission test 4.8dB (1GHz-18GHz) 5.5dB (Above 18GHz) 10 Temperature test 1°C 11 Humidity test 3% 12 Supply voltages 1.5% 13 3% Time

4.4 Measurement Uncertainty

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

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 (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

• 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~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~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~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 1&2 is PIFA antenna and no consideration of replacement. The best case gain of the antenna 1&2 is 3dBi.

Antenna location: Refer to Appendix (Internal Photos)



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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

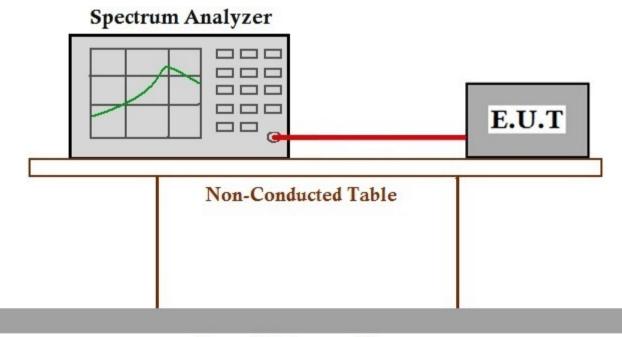
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure:	1001	mbar
Test mode	types. All data data rate @ 1N worst case of I	rates for eac lbps is the w EEE 802.11g); data rate @	h mo orst o g; dat 0 13.	dulation ty case of IEE a rate @ 6 5Mbps is th	transmitting mode with all r pe have been tested and for EE 802.11b; data rate @ 6N .5Mbps is the worst case of ne worst case of IEEE 802. he report.	ound th Mbps is of IEEE	e the

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210800860903



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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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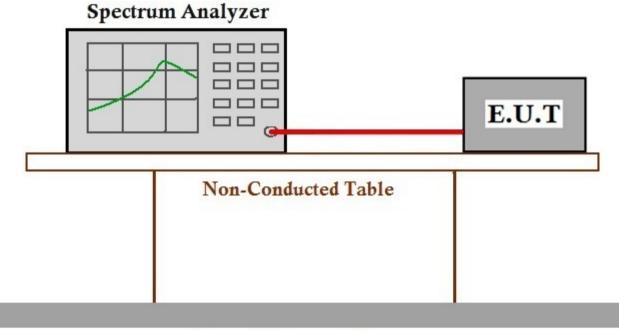


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7.2.1 E.U.T. Operation

Operating Enviro	onment:			
Temperature:	22 °C Humic	lity: 50 % RH	Atmospheric Pressure:	1001 mbar
Test mode	types. All data rates fo data rate @ 1Mbps is worst case of IEEE 80	r each modulation ty the worst case of IE 2.11g; data rate @ (ate @ 13.5Mbps is t	transmitting mode with all mype have been tested and fo EE 802.11b; data rate @ 6M 6.5Mbps is the worst case of the worst case of IEEE 802.7 the report.	und the lbps is the IEEE

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210800860903



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7.3 Power Spectrum Density

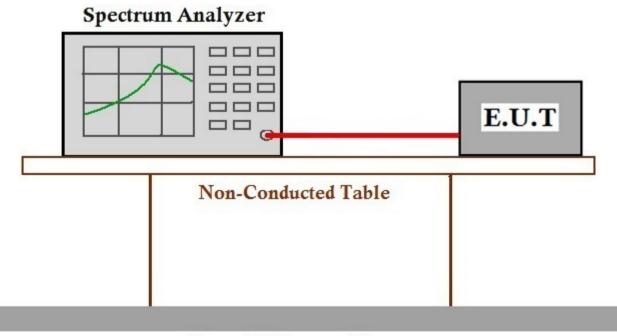
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1001 mbarTest modea: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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).
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 C for SHEM210800860903



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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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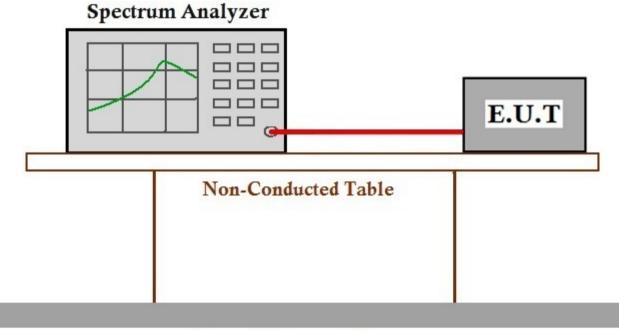


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7.4.1 E.U.T. Operation

Operating Enviro	onment:		
Temperature:	22 °C Humidity:	50 % RH	Atmospheric Pressure: 1001 mbar
Test mode	types. All data rates for eac data rate @ 1Mbps is the w worst case of IEEE 802.11c	ch modulation ty vorst case of IE g; data rate @ 6 @ 13.5Mbps is 1	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 the worst case of IEEE 802.11n(HT40). the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210800860903



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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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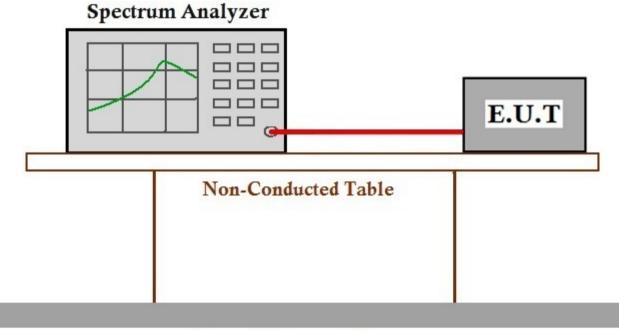


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7.5.1 E.U.T. Operation

Operating Enviro	nment:						
Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure:	1001	mbar
Test mode	types. All data data rate @ 1 worst case of	a rates for ead Mbps is the w IEEE 802.11(0); data rate (ch mo vorst g; dat ᡚ 13.	dulation ty case of IE a rate @ 0 5Mbps is t	transmitting mode with all n ype have been tested and fo EE 802.11b; data rate @ 6M 6.5Mbps is the worst case of the worst case of IEEE 802. the report.	ound th /lbps is f IEEE	e the

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210800860903



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7.6 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.209 & 15.247(d) **Test Requirement** ANSI C63.10 (2013) Section 6.10.5 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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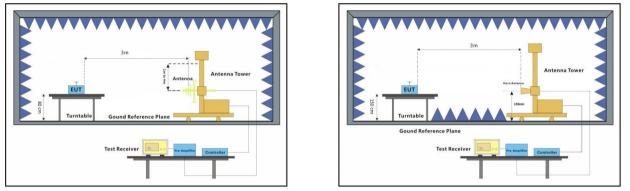


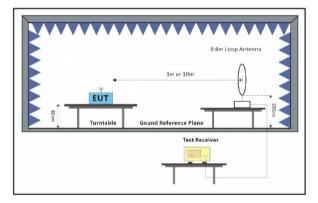
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7.6.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	22 °C Hu	nidity: 50	% RH	Atmospheric Pressure:	1001 mbar
Test mode	types. All data rates data rate @ 1Mbps worst case of IEEE	for each me is the worst 802.11g; da a rate @ 13	odulation ty case of IE ta rate @ 6 .5Mbps is t	transmitting mode with all ype have been tested and for EE 802.11b; data rate @ 60 0.5Mbps is the worst case of he worst case of IEEE 802 the report.	ound the Mbps is the of IEEE

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.

Remark3 :This test item was investigated while operating in SISO and MIMO mode, however, it was d etermined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modu lation produced the worst emissions. So the emissions produced from other operation are not recorde d in report.



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1	2	2372.860	54.56		29		0.27	<u> </u>	74.0			3.73			р	eak		
2	1	2390.000	53.97	-4.	24	4	9.73		74.0	0	-24	.27			р	eak		
3	1	2413.460	102.43	-4.	18	9	8.25		74.0	0	24	.25			р	eak		

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



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No.	F	requency (MHz)	Reading (dBuV)		ection (dB/m)		esult luV/m		Lim (dBu\		Ma (d	rgin B)			F	lemai	rk	
1	1	2373.700	54.70		29		0.41	<u>, </u>	74.0	-	<u> </u>	3.59				peak		
2	1	2390.000	52.34	-4	24	4	8.10		74.0)0	-25	5. 90				peak		
3	1	2414.860	97.90	-4	18	9	3.72		74.0)0	19	.72				peak		

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	nark
1	2460.500	105.46	-4.06	101.40	74.00	27.40	pe	ak
2	2483.500	54.51	-4.00	50.51	74.00	-23.49	pe	ak
3	2488.100	56.27	-3.99	52.28	74.00	-21.72	pe	ak
4	2500.000	54.10	-3.96	50.14	74.00	-23.86	pe	ak

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



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	245	0.0002	2465	.00 2480	D.00	249	5.00	251	0.00 2	525	5.00 254	0.00 258	55.00	257	0.00	2500.0	00 MHz
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1	24	460.65	-	98.29		-4.0			94.23		74.00	20.23			pe	eak	
2	24	483.50	0	52.92		-4.()0	4	18.92		74.00	-25.08			pe	eak	
3		489.60		54.30		-3.9	99		50.31		74.00	-23.69			pe	eak	
4	25	500.00	0	52.72		-3.9	96	4	18.76		74.00	-25.24			pe	eak	

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



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	1	2365.300	54.15	-4.31		49.84	74.0	00	-24.16		pea	k
		2000.000								_		
		2390.000	53.24	-4.24	1	49.00	74.0	00	-25.00		pea	k

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



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No.	F	requency (MHz)	Reading (dBuV)	Corrector(c			lesult BuV/m		Lim dBuV		Mai (dl	rgin B)			Re	emar	k	
1	1	2334.640	54.61	-4.3			0.22		74.0		<u> </u>	.78	\square		F	beak		
2	1	2390.000	52.19	-4.2	24	4	7.95		74.0	0	-26	.05			F	oeak		
3	1	2414.860	96.62	-4.1	18	9	2.44		74.0	0	18	.44			F	peak		

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



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No.	F	requency (MHz)	Reading (dBuV)	Correction factor			lesult BuV/m)	Limit (dBuV/n	n)	Margin (dB)			Rema	ark	
1	2	2458.550	103.96				9.89	74.00		25.89	-		pea	k	
2	2	2483.500	56.93	-4.(00	5	2.93	74.00		-21.07	1		pea	k	
3	2	2486.450	57.21	-3.9	99	5	3.22	74.00		-20.78			pea	k	
4	2	2500.000	55.15	-3.9	96	5	1.19	74.00		-22.81			pea	k	

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



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1	4	2460.3		97.41		-4.(93.35	Τ,	74.00	19.35			pea	k	
2	1	2483.50	00	52.46		-4.()0	4	48.46		74.00	-25.54			pea	k	
3		2490.3		54.59		-3.9	98	Ę	50.61		74.00	-23.39			pea	k	
4	2	2500.00	00	52.50		-3.9	96	4	48.54		74.00	-25.46			pea	k	

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



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2		2390.0		53.1		-4.2			8.87		74.(-25.13	_		pea		
3		2414.1	60	106.5	2	-4.1	8	1	02.34		74.0	00	28.34	4		pea	ık	

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



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	0.0 23	310.0002324	1.00 2338	B.00	235	2.00	235	6.00	238	0.00	239	1.00	240	8.00	212	2.00	21	50.00 MH
<mark>ا</mark> ٥.	F	requency (MHz)	Reading (dBuV)		Correc	ction IB/m)		lesult BuV/m		Lim dBuV		Ma (d	rgin B)			Rem	ark	
1	1	2344.720	54.28	-	-4.3			9.92		74.0			.08			pea	ak	
2	1	2390.000	52.33		-4.2	24	4	8.09		74.0	0	-25	5. 91			pea	ak	
3	1	2416.540	97.93		-4.1	8	9	3.75		74.0	0	19	.75			pea	ak	

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



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		150.000 2469	5.00 2480	1.0 0 24	195.00	2510.00	2525.00 254	10.00 2555	.00 2570.00	2500.00 MHz
No.	F	requency	Reading	Corr	ection	Result	Limit	Margin	F	Remark
		(MHz)	(dBuV)	factor	r(dB/m)		(dBuV/m)	(dB)		
1		2460.500	104.35	_	.06	100.29	74.00	26.29		peak
2		2483.500	54.40		.00	50.40	74.00	-23.60		peak
3		2490.050	55.45	-3	.99	51.46	74.00	-22.54	peak	
4	2	2500.000	53.34	-3	.96	49.38	74.00	-24.62		peak

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



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No.	F	reque (MH:		Reading (dBuV)	Correct			Result BuV/m)	Limit (dBuV/m)	Margin (dB)		Re	mark	
1	2	2457.		95.78	-4.0			91.71	74.00	17.71		р	eak	
2	2	2483.	500	54.08	-4.0	0	5	50.08	74.00	-23.92		р	eak	
3	2	2495.	750	55.28	-3.9	7	5	51.31	74.00	-22.69		р	eak	
4	2	2500.	000	51.96	-3.9	6	4	18.00	74.00	-26.00		р	eak	

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



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	23	310.0002324	1.00 2338	.00 2352.	00 2	366.00	2380.00	239	1.00 24	108.00	212	2.00	2150.00 M
<mark>ا</mark> ٥.	F	requency (MHz)	Reading (dBuV)	Correcti factor(dB		Result dBuV/m)	Lin (dBu)		Margii (dB)	1		Rema	ark
1		2386.020	56.67	-4.25		52.42	74.	00	-21.5			peal	k
2		2390.000	53.43	-4.24		49.19	74.		-24.8			pea	k
3	1	2415.560	101.95	-4.18		97.77	74.	00	23.77			pea	k

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	0.0 23	310.0002324	1.00 2338	.00 2352.0	10 3	2356.0	10 2	380.00	239	1.00	2108	.00 242	2.00	2150.00 MH
0.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/		Res (dBu)		Lim (dBu\		Mar((dE			Rema	ark
	2	2390.000	52.00	-4.24		47.		74.0		-26.	-		pea	k
	2	2370.060	53.85	-4.30		49.	55	74.()0	-24.	45		pea	k
	2	2408.700	93.31	-4.20		89.	11	74.0	00	15.1	11		pea	k

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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1	60							mit1: mit2:
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	2130.000211	7.00 2464.0	10 2481.00	2498.00 2	515.00 253	2.00 2549.	.00 2566.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	hark
1	2446.150	107.07	-4.10	102.97	74.00	28.97	pea	ak
2	2483.500	60.18	-4.00	56.18	74.00	-17.82	pea	
3	2486.270	57.77	-4.00	53.77	74.00	-20.23	pea	
4	2500.000	53.85	-3.96	49.89	74.00	-24.11	pea	ak

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		30.0002	117	.00 2464	1.00 2	2481	.00	249	8.00 2	515.00	253	2.00 254	I9.00	256	5.00	2	600.00	MHz
No.	F	requency (MHz)	y	Reading (dBuV)					esult BuV/m)		mit ıV/m)	Margin (dB)			Re	mark		
1		2443.600		93.61		4.1			9.50		.00	35.50				VG		
2		2483.500		45.04		4.0			1.04		.00	-12.96				VG		
3		2487.120		44.48		3.9			0.49		.00	-13.51				VG		
4	2	2500.000)	41.99	-	3.9	6	3	8.03	- 54	.00	-15.97			A	VG		

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	21	130.00024	117	.00 2464	1.00 24	81.	00	249	8.	.00 2!	515	5.00 253	32.0	0 2549	9.00	256	6.00			2500.00	MHz
No.	F	requency (MHz)	/	Reading (dBuV)	Corre factor					sult iV/m)	((Limit dBuV/m)		Margin (dB)				Ren	nar	k	
1	2	2444.450)	98.69	-4			9	94	.59		74.00		20.59				pe	ak		_
2	2	2483.500)	53.61	-4.	00		4	19	.61		74.00		-24.39				pe	ak		
3	2	2492.900)	54.40	-3.	98		5	50	.42		74.00		-23.58				pe	ak		
4	2	2500.000)	53.55	-3.	96	;	4	19	.59		74.00		-24.41				ре	ak		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; 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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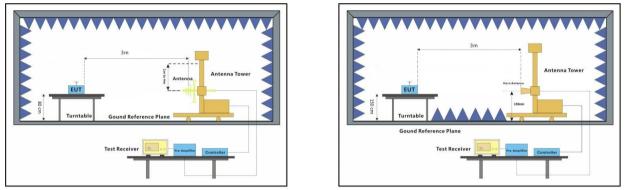


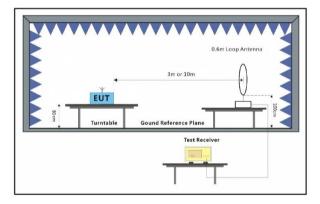
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7.7.1 E.U.T. Operation

Operating Enviro	onment:						
Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure: 10)01	mbar
Test mode	types. All dat data rate @ ′ worst case of 802.11n(HT2	a rates for eac IMbps is the w IEEE 802.11c	h mo vorst o g; dat Ø 13.	dulation ty case of IE a rate @ 6 5Mbps is t	transmitting mode with all mo ype have been tested and four EE 802.11b; data rate @ 6Mb 6.5Mbps is the worst case of IE the worst case of IEEE 802.11 the report.	nd the ps is t EEE	e the

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

5)This test item was investigated while operating in SISO and MIMO mode, however, it was determin ed that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation p roduced the worst emissions. So the emissions produced from other operation are not recorded in rep ort.



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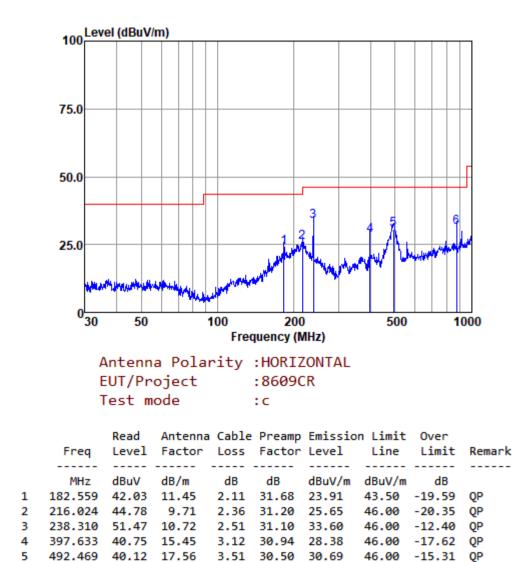
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Below 1GHz



	Note:Emission	Level=Read	Level+Antenna	Factor+Cable	loss-Preamp	Factor
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4.73 32.73 31.50

46.00 -14.50

QP



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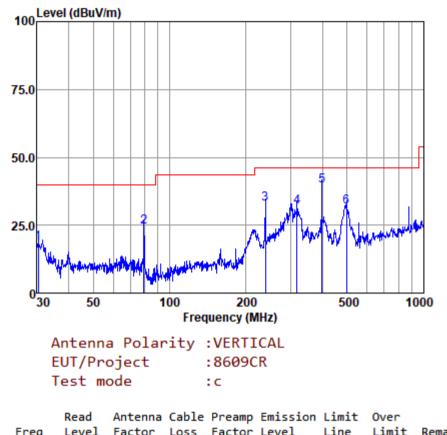
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.424	37.22	12.22	0.79	31.63	18.60	40.00	-21.40	QP
2	79.243	45.13	9.40	1.30	31.44	24.39	40.00	-15.61	QP
3	238.310	50.57	10.72	2.51	31.10	32.70	46.00	-13.30	QP
4	317.701	46.18	13.81	2.89	31.04	31.84	46.00	-14.16	QP
5	397.633	51.91	15.45	3.12	30.94	39.54	46.00	-6.46	QP
6	497.677	41.21	17.66	3.54	30.59	31.82	46.00	-14.18	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Above 1GHz

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

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No.	F	requency (MHz)	Reading (dBuV))	Correct factor(d			lesult BuV/m)	(Limit dBuV/m)	Margin (dB)			F	Rema	ark	
1		4824.000	57.43		-10.2	21	4	7.22		74.00		-26.78				peak		
2		7236.000	55.72		-7.0			8.67		74.00		-25.33				peał		
3		9648.000	54.97		-4.7	7	5	0.20		74.00		-23.80				peał	ĸ	



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1	4	4824.000	57.49		-10.2			7.28		74.0		-26.7				p	eak		
2	ī	7236.000	55.80		-7.0	5	4	8.75	1	74.0	0	-25.2	25			p	eak		
3	9648.000 54.42			-4.7	7	- 4	9.65		74.0	0	-24.3	35			p	eak			

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



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		(MHz)	(dBuV)	_	factor(d			BuV/m)	(0		uV/m)	(dE								
1		1874.000	57.56	_	-10.0			7.55			4.00	-26					peal			
2		7311.000	54.61		-6.9			7.68			4.00	-26		· ·						
3	9	748.000	52.81		-4.3	0	- 4	8.51		74	4.00	-25	.49	9 peak						

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



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1	4	1874.000	57.29		-10.0			7.28	- (1	74.		-26.7				р	eak		
2	1	7311.000	55.38		-6.9	3	4	8.45		74.	00	-25.5	.55 peak						
3	9	748.000	53.97		-4.3	0	4	9.67		74.	00	-24.3	33 peak						

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



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No.	F	requency	Reading (dBuV)	9	Correc			lesult BuV/m)	4		imit uV/m)	Mar (df	gin			F	Rema	ark		
1	4	(MHz) 1924.000	57.16		factor(d -9.8			7.34	(0		4.00		.66	+			peal	k		
2		7386.000	55.17		-6.8			8.37			4.00		5.63 peak							
3	9	848.000	53.61		-3.8	4	4	9.77		7	4.00	-24	.23	3 peak						

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



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2		7386.000	55.47		-6.8			8.67	+		4.00	-25		+			eak		
3		9848.000	53.51		-3.8			9.67	+		4.00	-24					eak		

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	nark
1	4824.000	58.09	-10.21	47.88	74.00	-26.12	pea	ak
2	7236.000	56.29	-7.05	49.24	74.00	-24.76	pea	ak
3	9648.000	54.44	-4.77	49.67	74.00	-24.33	pea	ak

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



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1	4	4824.000	57.79		-10.2			7.58		74.0		-26.4				peak	(
2	1	7236.000	55.39		-7.0	5	4	8.34		74.0	0	-25.6	6			peak	(
3	9	9648.000	54.44		-4.7	7	- 4	9.67		74.0	0	-24.3	3			peak	(

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



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		1874.000	57.97		-10.0			7.96			4.00	-26		<u> </u>			pea			
2		7311.000	55.15		-6.9			8.22			4.00	-25					pea			
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



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		4874.000	57.69		-10.0			7.68		74.0		-26.32				peak			
2		7311.000	54.61		-6.9			7.68		74.0		-26.32				peak	(
3	9	9748.000	54.16		-4.3	0	- 4	9.86		74.0	00	-24.14				peak	C		

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



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1	4	1924.000	57.04		-9.8			7.22	(4.00		5.78				pea	k		
2	1	7386.000	55.44		-6.8	0	4	8.64		7	4.00	-25	5.36				pea	k		
3	9	9848.000	53.51		-3.8	4	4	9.67		7	4.00	-24	.33				pea	k		

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



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1	4	4924.000	57.70		-9.8			7.88	- (°		4.00		.12				peak	c		
2	1	7386.000	55.35		-6.8	0	4	8.55		7	4.00	-25	.45		peak					
3	9	9848.000	53.88		-3.8	4	5	0.04		7	4.00	-23	.96				peak	¢ .		

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



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1		324.000	57.87		-10.2			7.66		74.0		-26.3					peak	:		
2	72	236.000	54.90		-7.0	15	4	7.85		74.0)0	-26.1	15		peak					
3	96	648.000	54.44		-4.7	7	4	9.67		74.0)0	-24.3	33				peak			

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



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1	4	4824.000	58.54		-10.2			8.33	- ⁽	74.0		-25.0				F	peak		
2	ī	7236.000	55.38		-7.0	15	4	8.33	\square	74.0	0	-25.0	67	peak					
3	ļ	9648.000	54.91		-4.7	7	5	i0.14		74.0	0	-23.8	36	peak					

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



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1		(MHz) 4874.000	(dBuV) 57.53	factor(BuV/m) 7.52	(0	dBuV/m) 74.00	(dB) -26.48			ne	ak		
2		7311.000	54.41	-6.			7.48	-	74.00	-26.52						
3		9748.000	54.37	-4.			0.07		74.00	-23.93		peak peak				

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



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lo.	Fre	equency	Reading	1	Correc	tion	R	lesult		Lir	nit	Marg	ain			R	ema	rk		
		(MHz)	(dBuV)		factor(d			BuV/m)	(V/m)	(dB)							
	- 43	874.000	58.23		-10.0	01	- 4	8.22		74	.00	-25.	78				peak			
2	7	311.000	55.60		-6.9	3	4	8.67		74	.00	-25.	33		peak					
}	9	748.000	53.96		-4.3	0	4	9.66		74	.00	-24.	34				peak			

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



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No.		quency	Reading		Correc			lesult			imit	Mai			1.0		Rema			
	(MHz)	(dBuV)	,	factor(d	B/m)	(dE	BuV/m)	(0	lΒ	uV/m)	(dl	B)							
1		24.000	57.59		-9.8			7.77			4.00		.23	<u> </u>			peal			
2		86.000	54.76		-6.8			7.96			4.00		.04	<u> </u>	peak					
3	98	48.000	52.80		-3.8	4	- 4	8.96		7	4.00	-25	.04				peał	¢		

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



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No.	F	requency (MHz)	Reading (dBuV)	9	Correct factor(d			lesult BuV/m)	6		.imit 3uV/m)	Ma	rgin B)			F	Rema	ark		
1	4	4924.000	58.09		-9.8			8.27	- (°		4.00		5.73				peal	k		
2	1	7386.000	56.34		-6.8	0	4	9.54		7	4.00	-24	1.46				peal	k		
3	9848.000 53.08				-3.8	4	4	9.24		7	4.00	-24	.76				peal	k		

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



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1		844.000	58.34		-10.1			8.21		74.00		25.79			p	eak		
2	- 7	266.000	55.55		-7.0	0	4	8.55		74.00	-	25.45			p	eak		
3	9	688.000	54.25		-4.5	8	4	9.67		74.00	-	24.33			p	eak		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin	Rema	ark	
1	(MHz) 4844.000	(dBuV) 57.95	factor(dB/m) -10.13	(dBuV/m) 47.82	(dBuV/m) 74.00	(dB) -26.18	pea	k	
2	7266.000	56.55	-7.00	49.55	74.00	-24.45	pea		
3	9688.000	54.62	-4.58	50.04	74.00	-23.96	peak		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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No.	F	requency	Reading]	Correc			lesult		Limit		Margin			F	lema	rk	
1		(MHz) 4874.000	(dBuV) 57.90		factor(d -10.0			BuV/m) 7.89	(0	1BuV/ 74.00		(dB) -26.11	_			peak		
2		7311.000	54.88		-6.9			7.95		74.00		-26.05				peak		
3		9748.000	53.66		-4.3			9.36		74.00		-24.64		peak				

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



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1	4	1874.000	58.28		-10.0			8.27	–		4.00	-25					peal	(
2	1	7311.000	55.65		-6.9	3	4	8.72		74	4.00	-25	.28				peal	(
3	9748.000 54.16				-4.3	0	4	9.86		74	4.00	-24	.14				peal	< .		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



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1	4	1904.000	57.47	-9.8			7.58	74.0		-26.42	2		pea	k	
2	7	7356.000	56.18	-6.8	35	4	9.33	74.0)0	-24.6	7		pea		
3	9	9808.000	53.57	-4.0)2	4	9.55	74.0)0	-24.4	5		pea	ik	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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	2 7356.000		56.12		-6.85		49.27		74.00			peak				
3	3 9808.000		52.98	-4.(-4.02		8.96	74.0	74.00 -			peak				

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < Photos >.

- End of the Report -



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