

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

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TEST REPORT

Test Result:	Pass*		
Date of Issue:	2022-01-19		
Date of Test:	2022-01-05 to 2022-01-18		
Date of Receipt:	2021-12-07		
	RSS-Gen Issue 5 Amendment 2 (February 2021)		
	RSS-247 Issue 2, February 2017		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
HVIN:	W482CA-Z1		
Model No.:	W482CA-Z		
EUT Name:	2K Wi-Fi Smart Deterrence Camera		
Equipment Under Test (EU	Т):		
Address of Manufacturer:	250 Royal Crest Court, Markham, ON L3R 3S1 Canada		
Manufacturer:	LOREX Technology Inc.		
Address of Applicant:	250 Royal Crest Court, Markham, ON L3R 3S1 Canada		
Applicant:	LOREX Technology Inc.		
IC:	8575A-W482CAZ1		
FCC ID:	UCZ-W482CA-Z1		
Application No.:	SHCR2201000021AT		

* 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	Remark						
00	Original	2022-01-19	/				

Authorized for issue by:		
	pichal Nil	
	Micheal Niu / Project Engineer	
	parlam zhan	
	Parlam Zhan / Reviewer	



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2 **Test Summary**

Radio Spectrum Technical Requirement						
ltem	FCC Requirement	IC Requirement	Method	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration		
N/A: Not applicable			· · · ·			
Radio Spectrum Matt	er Part					
ltem	FCC Requirement	IC Requirement	Method	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6	.2 Pass		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass		
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass		
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass		



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General Information 4

4.1 Details of E.U.T.

Power supply:	DC 12V/1.5A by adapter
Test voltage:	AC 120V/60Hz
Antenna Gain:	Antenna 1:4.35dBi (Provided by manufacturer)
	Antenna 2:4.67dBi (Provided by manufacturer)
	Directional gain:7.52dBi
Antenna Type:	Antenna 1:PCB antenna,
	Antenna 2:PCB 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
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
S/N:	ND012001025687
Firmware Version:	V2.8

4.2 Power level setting using in test:

Channel	802.	11b	802.11g		802.11n(HT20)	
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	Default	Default	16	16	56	56
6	Default	Default	16	16	56	56
11	Default	Default	16	16	56	56

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Adapter I.T.E. POWER SUPPLY		/
Laptop Lenovo		ThinkPad X100e	/
SecureCRT VanDyke		V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/



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4.4 Measurement Uncertainty

No.	Item	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	DE Dedicted Dewer	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
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	1	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF (Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
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	10/12/2021	10/11/2022
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	10/12/2021	10/11/2022
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	10/14/2021	10/13/2022
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
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	10/18/2021	10/17/2022
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~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R



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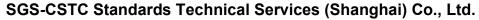
16	Filter (885 MHz \sim 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz \sim 860 MHz $)$	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 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
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 and antenna 2 are PCB antennas, and all no consideration of replacement. The best case gain of the antenna 1 is 4.35dBi and antenna 2 is 4.67dBi.

Antenna location: Refer to Appendix (Internal Photos).



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2
Limit:	

	Conducted	l limit(dBμV)	
Frequency of emission(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.			



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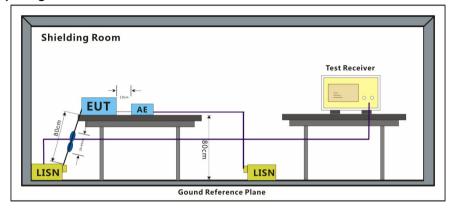


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7.1.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mb	ar
Test mode	a: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



7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

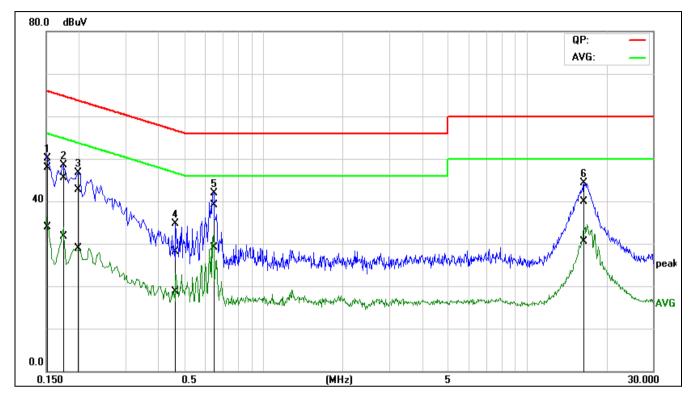


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Mode:a; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1522	28.12	14.22	19.76	47.88	33.98	65.88	55.88	-18.00	-21.90	Pass
2	0.1741	25.79	12.02	19.76	45.55	31.78	64.76	54.76	-19.21	-22.98	Pass
3	0.1976	22.89	9.10	19.75	42.64	28.85	63.71	53.71	-21.07	-24.86	Pass
4	0.4657	8.40	-1.07	19.79	28.19	18.72	56.59	46.59	-28.40	-27.87	Pass
5*	0.6444	19.27	9.41	19.74	39.01	29.15	56.00	46.00	-16.99	-16.85	Pass
6	16.3734	19.80	10.39	20.10	39.90	30.49	60.00	50.00	-20.10	-19.51	Pass



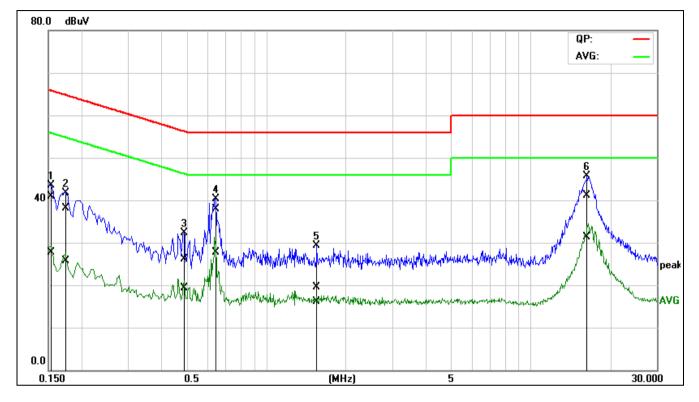
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Mode:a; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
-	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1539	21.05	7.92	19.76	40.81	27.68	65.78	55.79	-24.97	-28.11	Pass
2	0.1762	18.44	5.98	19.76	38.20	25.74	64.66	54.66	-26.46	-28.92	Pass
3	0.4876	6.34	-0.56	19.80	26.14	19.24	56.21	46.21	-30.07	-26.97	Pass
4*	0.6418	18.10	7.88	19.74	37.84	27.62	56.00	46.00	-18.16	-18.38	Pass
5	1.5580	-0.12	-3.67	19.71	19.59	16.04	56.00	46.00	-36.41	-29.96	Pass
6	16.3849	21.09	11.28	20.08	41.17	31.36	60.00	50.00	-18.83	-18.64	Pass



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7.2 Minimum 6dB Bandwidth

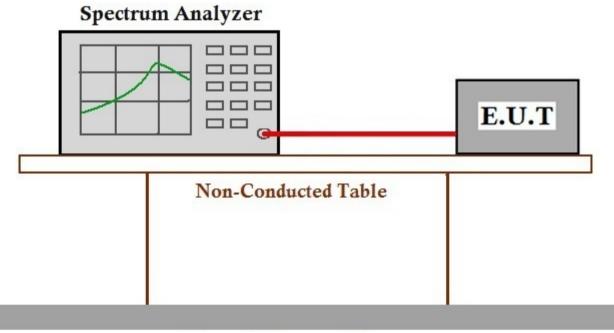
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 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). Only the data of worst case 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 SHCR220100002101



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7.3 Conducted Average Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.2Limit: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

Remark: The EUT 802.11n mode supports 2 * 2 MIMO transmission. The Gain of each antenna is 4.35dBi and 4.67dBi, and the directional antenna gain is 7.52dBi. Therefore, the power limit should be reduced from the part exceeding 6, 2400-2483.5: 28.48dBm



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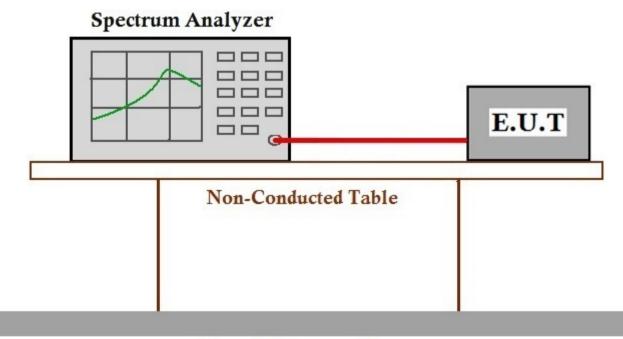


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7.3.1 E.U.T. Operation

Operating Enviro	onment:	
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar	٢
Test mode	a: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 SHCR220100002101



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7.4 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

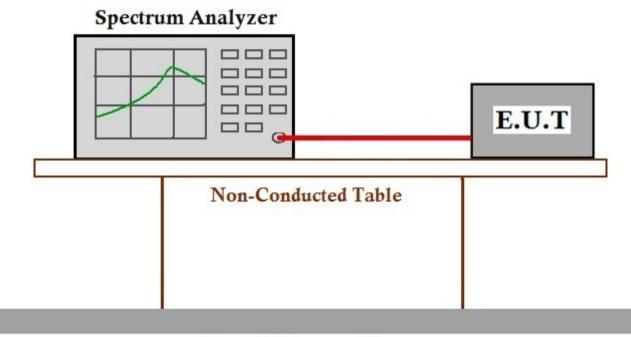
Remark: The EUT 802.11n mode supports 2 * 2 MIMO transmission. The Gain of each antenna is 4.35dBi and 4.67dBi, and the directional antenna gain is 7.52dBi. Therefore, the power limit should be reduced from the part exceeding 6, 2400-2483.5: 6.48dBm/3kHz.

7.4.1 E.U.T. Operation

Operating Environment:

Test mode a: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	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
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.	Test mode	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

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100002101





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7.5 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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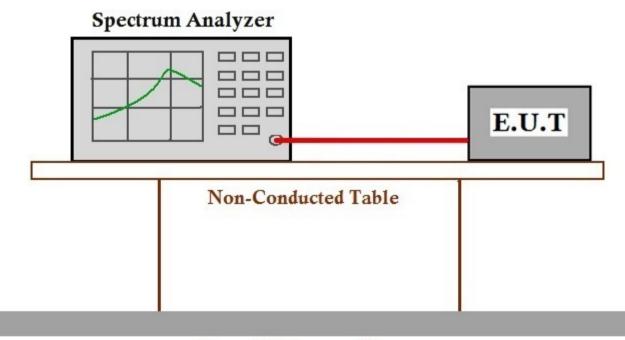


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7.5.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 n	nbar			
Test mode	a: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.				

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100002101



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7.6 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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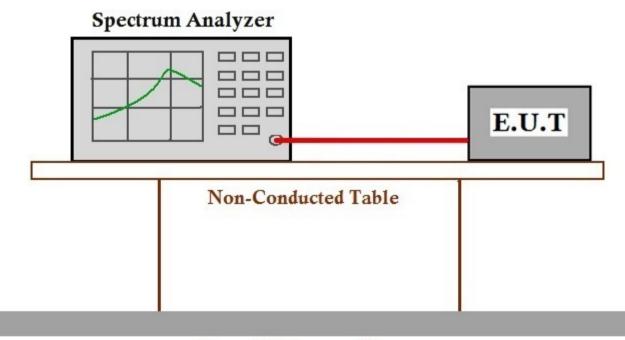


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7.6.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mb	ar			
Test mode	a: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



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100002101



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7.7 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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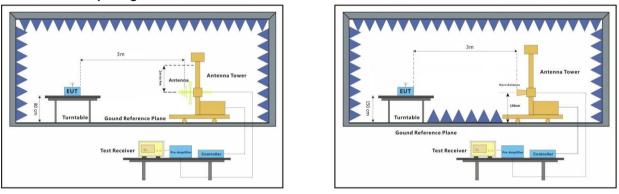


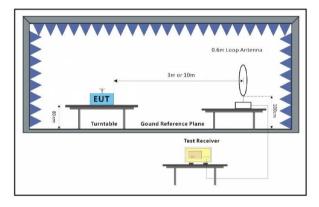
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7.7.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	24 °C	Humidity:	50	% RH	Atmospheric Pressure: 1010 mbar
Test mode	types. All data data rate @ 1 worst case of	a rates for eac Mbps is the w IEEE 802.11	ch mo vorst g; dat	dulation ty case of IE a rate @ 6	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.

7.7.2 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: 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.

Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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		2375.800	61.97	-14.			7.92		74.00	-26.0				pea		
		2390.000	59.44	-14.			5.43		74.00	-28.5				pea		
	1	2413.320	112.94	-13.	94	9	9.00	1	74.00	25.0	00			pea	ak	

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



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



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No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1		2463.200	112.10	-13.78	98.32	74.00	24.32	p	eak
2		2483.500	61.22	-13.71	47.51	74.00	-26.49	p	eak
3		2489.450	61.74	-13.68	48.06	74.00	-25.94	p	eak
4		2500.000	59.73	-13.64	46.09	74.00	-27.91	p	eak

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



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1		2463.200	120.87	-13.78	107.09	74.00	33.09	p	eak
2		2483.500	65.41	-13.71	51.70	74.00	-22.30		eak
3		2486.600	66.10	-13.70	52.40	74.00	-21.60		eak
4		2500.000	64.39	-13.64	50.75	74.00	-23.25	p	eak

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1		(MHz) 2389.660	(dBuV) 80.37	factor(d			BuV/m) 6.36	(dBuV/r 74.00		(dB) -7.64	_		peak	
2		2390.000	78.28	-14.0			4.27	+	74.00		-9.73			peak	
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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1	(MHz) 2389.240	(dBuV) 57.46	factor(dB/m) -14.01	(dBuV/m) 43.45	(dBuV/m) 54.00	(dB) -10.55		AVG	
2	2390.000	59.06	-14.01	45.05	54.00	-8.95		AVG	
3	2412.900	109.92	-13.94	95.98	54.00	41.98		AVG	

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No.	F	requency	Reading		Correc			esult		Limit		Mar	gin		Re	mark	
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1	1	2389.380	82.08		-14.0	01	6	8.07		74.00		-5.	93		р	eak	
2	1	2390.000	83.24		-14.0	01	6	9.23		74.00		-4.	77		р	eak	
3	1	2409.960	120.96		-13.9	95	1	07.01		74.00		33.	01		р	eak	

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



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Rema	ark
1	(MHz) 2389.380	(dBuV) 62.81	factor(dB/m) -14.01	(dBuV/m) 48.80	(dBuV/m) 54.00	(dB) -5.20		AV	3
2	2390.000	65.00	-14.01	50.99	54.00	-3.01		AV	
3	2413.180	110.98	-13.94	97.04	54.00	43.04		AV	

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



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	2	150.00024	65	.00 248	0.0	0 249	5.00	251	0.00	253	25.00	254	0.00	2555	00 257	0.00	2500.00	MHz
No.	F	requency (MHz)	'	Reading (dBuV)		Correct factor(d			lesult BuV/m	ı)	Lim (dBuV		Març (dE	gin 3)		Rer	nark	
1	1	2462.150		119.83		-13.			06.05		74.0		32.			pe	ak	
2		2483.500		78.43		-13.1	71	6	64.72		74.0	0	-9.2	28		pe	ak	
3	1	2484.200		79.61		-13.1	70	6	5.91		74.0	0	-8.0	09		pe	ak	
4		2500.000		63.62		-13.	64	4	9.98		74.0	0	-24.	02		pe	eak	

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



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	2150.000 216	5.00 2480.0	10 2195.00	2510.00 2	525.00 251	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	2463.050	110.06	-13.78	96.28	54.00	42.28		VG
2	2483.500	60.35	-13.71	46.64	54.00	-7.36		VG
3	2484.950	57.77	-13.70	44.07	54.00	-9.93		VG
4	2500.000	52.84	-13.64	39.20	54.00	-14.80	A	VG

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



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		150.0002169	5.00 2480.	00 249	5.00	251	0.00 2	525	5.00 254	0.00 25	55.00 251	70.00	2500.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	((Limit dBuV/m)	Margin (dB)		Ren	nark	
1	1	2463.350	119.18	-13.			05.41		74.00	31.41		ре	ak	
2	1	2483.500	81.74	-13.	71	6	8.03		74.00	-5.97		ре	ak	
3		2484.200	84.51	-13.	70	7	0.81		74.00	-3.19		ре	ak	
4		2500.000	66.17	-13.	64	5	2.53		74.00	-21.47		ре	ak	

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	0.0 2150.000 215	5.00 2480.0	0 2495.00	2510.00 2	525.00 251	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)	Rer	mark
1	2463.200	109.73	-13.78	95.95	54.00	41.95		VG
2	2483.500	65.02	-13.71	51.31	54.00	-2.69		VG
3	2484.350	63.11	-13.70	49.41	54.00	-4.59		VG
4	2500.000	54.65	-13.64	41.01	54.00	-12.99	A	VG

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



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	23	310. 0 00 23 24	1.00 2338.	.00 235	2.00	236	6.00	238	0.00	239	1.00 240)8.00 24 2	2.00	2150.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	(Limit dBuV/r		Margin (dB)		Rei	mark	
1		2389.100	79.78	-14.			5.77		74.00		-8.23		pe	eak	
2		2390.000	80.99	-14.			6.98		74.00		-7.02		pe	eak	
3	1	2414.300	119.60	-13.	93	1(05.67		74.00		31.67		pe	eak	

Mode:a; Polarization:Horizontal; Modulation:n; 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)		Remark	
1	2389.240	58.72	-14.01	44.71	54.00	-9.29		AVG	
2	2390.000	58.74	-14.01	44.73	54.00	-9.27		AVG	
3	2411.640	109.90	-13.94	95.96	54.00	41.96		AVG	

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



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	2310.000232						.00 2-121				
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark			
1	2388.540	83.23	-14.01	69.22	74.00	-4.78		peak			
2	2390.000	81.49	-14.01	67.48	74.00	-6.52		peak			
3	2410.940	121.14	-13.94	107.20	74.00	33.20		peak			

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



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_								
) .	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	2388.820	64.73	-14.01	50.72	54.00	-3.28		AVG
	2390.000	65.50	-14.01	51.49	54.00	-2.51		AVG
\neg	2411.220	111.73	-13.94	97.79	54.00	43.79		AVG

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

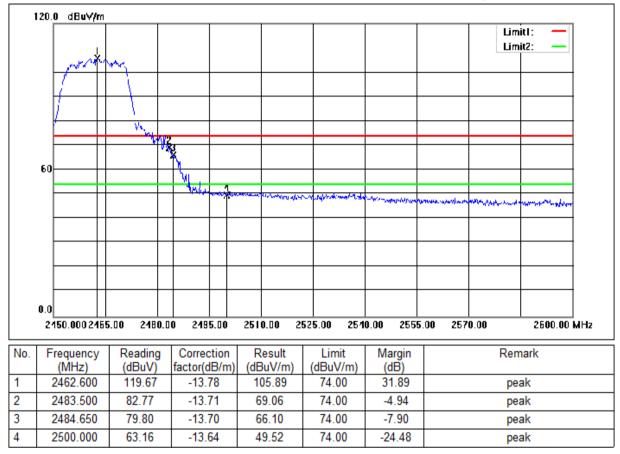


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No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark		
1		2462.600	110.95	-13.78	97.17	54.00	43.17	A	VG		
2	L	2483.500	61.72	-13.71	48.01	54.00	-5.99		VG		
3		2484.350	60.53	-13.70	46.83	54.00	-7.17		VG		
4		2500.000	52.36	-13.64	38.72	54.00	-15.28	A	VG		

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



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	2	150.000 2469	5.00 2480.	00 2495.	.00	251	0.00 2	52	5.00 254	10.00	255	5.00 257	0.00	2500.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(dE			esult 8uV/m)	(Limit dBuV/m)		argin dB)		Ren	nark	
1		2463.350	119.27	-13.7			05.50	ť	74.00	· · ·	1.50		pe	ak	
2		2483.500	81.85	-13.7	1	6	8.14	T	74.00	-{	5.86		pe	ak	
3		2484.500	83.51	-13.70	0	6	9.81		74.00	-4	4.19		pe	ak	
4		2500.000	63.66	-13.64	4	5	0.02		74.00	-2	3.98		pe	ak	

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



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	20.0 d⊟u∀/m							mit1: — mit2: —
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						~~~~~		
	0.0	5.00 2480.0	0 2195.00	2510.00 2	525.00 251	0.00 2555.	00 2570.00	2500.00 MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
	2463.200	109.94	-13.78	96.16	54.00	42.16	A	VG
	2483.500	65.15	-13.71	51.44	54.00	-2.56	A	VG
	2483.900	64.18	-13.70	50.48	54.00	-3.52	A	VG
_	2500.000	52.87	-13.64	39.23	54.00	-14.77		VG

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



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### 7.8 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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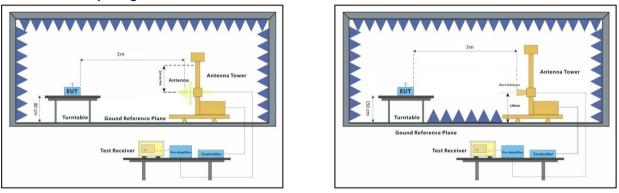


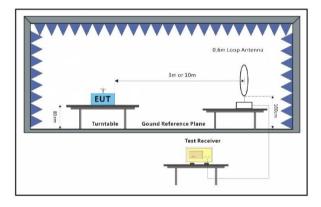
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#### 7.8.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	24 °C	Humidity:	50	% RH	Atmospheric Pressure: 1010 mbar
Test mode	types. All data data rate @ 1 worst case of	a rates for eac Mbps is the w IEEE 802.11	ch mo vorst ( g; dat	dulation ty case of IE a rate @ 6	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.

#### 7.8.2 Test Setup Diagram







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#### 7.8.3 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.

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



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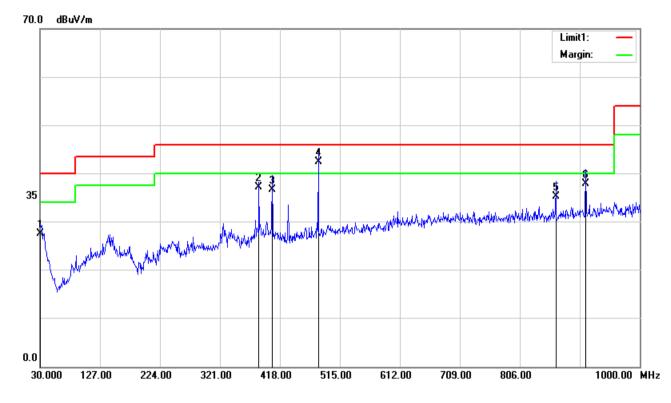
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30MHz-1GHz Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	2.24	25.38	27.62	40.00	-12.38	100	16	QP
2	384.0500	14.02	23.20	37.22	46.00	-8.78	100	67	QP
3	405.3900	12.99	23.66	36.65	46.00	-9.35	100	123	QP
4	480.0800	17.57	24.87	42.44	46.00	-3.56	100	264	QP
5	864.2000	7.00	28.25	35.25	46.00	-10.75	100	100	QP
6	912.7000	9.05	28.83	37.88	46.00	-8.12	100	100	QP



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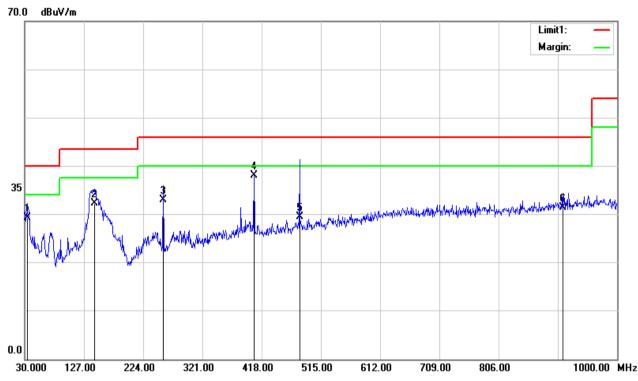
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Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	34.8500	6.20	23.17	29.37	40.00	-10.63	100	39	QP
2	144.4600	12.26	19.96	32.22	43.50	-11.28	100	126	QP
3	256.9800	13.48	19.50	32.98	46.00	-13.02	100	94	QP
4	405.3900	14.46	23.66	38.12	46.00	-7.88	100	322	QP
5	480.0800	4.56	24.87	29.43	46.00	-16.57	100	334	QP
6	910.7600	2.62	28.81	31.43	46.00	-14.57	100	347	QP



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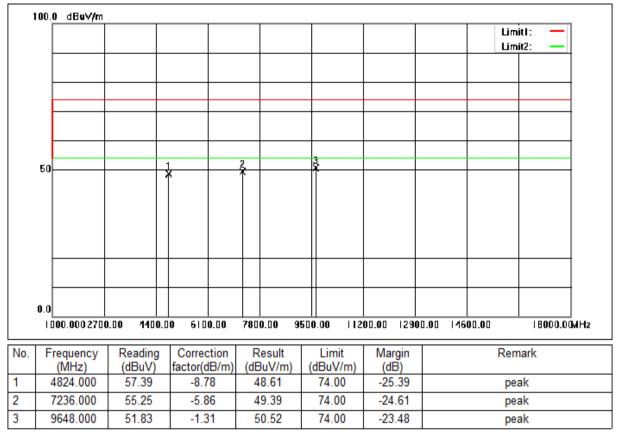




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#### Above 1GHz

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





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3	ļ	9648.000	51.98	-1.3	31	5	0.67		74.00	-23.3	3 peak					

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



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No.	F	requency	Reading	Correc			lesult		Limit	Margin		Remark				
		(MHz)	(dBuV)	factor(c			BuV/m)	(0	lBuV/m)	(dB)						
1		4874.000	56.83	-8.6			8.22		74.00	-25.78		peak				
2		7311.000	54.99	-5.7			9.21		74.00	-24.79	peak					
3		9748.000	51.96	-1.4	3	5	60.53		74.00	-23.47	/ peak					

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



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No.	Frequer	icy	Reading	g	Correc			lesult			Limit	M	argin				Rem	ark		
1	(MHz 4874.0		(dBuV) 57.50		factor(d -8.6			3uV/m) 8.89	+		BuV/m)_ 74.00		dB) 5.11	+	peak					
2	7311.0		54.90		-5.7			9.12	+		74.00		4.88	-	peak					
3	9748.0	000	52.22		-1.4	3	5	0.79		1	74.00	-2	3.21	-						

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



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No.	F	requency	Reading		Correc			lesult	,		imit	Ma	rgin			Re	emar	'k	
1	_	(MHz) 4924.000	(dBuV) 57.35		factor(d -8.4			BuV/m) 8.91	((		3uV/m) 4.00		B) 5.09			0	eak		
2		7386.000	54.83		-5.6			9.14			4.00		1.86	peak					
3	9	9848.000	51.50		-1.2	7	5	0.23		7	4.00	-23	8.77	-					

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



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No.	F	requency	Reading	Correc	tion	R	lesult		Lin	nit	Ma	rgin			Rem	nark	
		(MHz)	(dBuV)	factor(c			BuV/m)	(d		//m)	(d	B)					
1	4	4924.000	56.76	-8.4	4	4	8.32		74.(	00	-25	.68			pea	ak	
2		7386.000	55.20	-5.6	9	4	9.51		74.(	00	-24	.49			pea	ak	
3	9	9848.000	52.13	-1.2	7	5	0.86		74.(	00	-23	.14			pea	ak	

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



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1		4824.000	57.64	-8.7			8.86		74.00	-25.				peak		
2		7236.000	55.11	-5.8	36	4	9.25		74.00	-24.	75			peak		
3	(	9648.000	51.79	-1.3	31	5	0.48		74.00	-23.	52			peak		

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



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No.	F	requency	Reading		Correc			esult	Τ		Limit		Margin				Re	mark	(	
1		(MHz) 4824.000	(dBuV) 57.43		factor(d -8.7			BuV/m) 8.65			BuV/m) 74.00	+	(dB) -25.35					eak		
2		7236.000	55.61		-5.8			9.75	+		74.00	+	-24.25					eak eak		
3		9648.000	52.23		-1.3			0.92	+		74.00	+	-23.08					eak		

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1		4874.000	56.96	-8.6			8.35		74.00	-25.65			pea		
2		7311.000	54.87	-5.7			9.09		74.00	-24.91			pea		
3		9748.000	51.77	-1.4	3	5	0.34		74.00	-23.66			pea	IK	

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



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1	4874.		56.89		-8.6			8.28	$\perp$		74.00		5.72	<u> </u>			pea			
2	7311.		55.39		-5.7			9.61	$\perp$		74.00		4.39				pea			
3	9748.	000	51.85		-1.4	3	5	0.42		1	74.00	-2	3.58				pea	ak		

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



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+		3.000	51.84		-5.0			0.57		74.00	-24.75			-	ak	

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



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		(MHz)	Reading (dBuV)	factor(o			BuV/m)	(0	lBuV/m)	(dB)				
1	4924.000 57.39			-8.4	4	4	8.95		74.00	-25.05		р	eak	
2	7386.000 55.41			-5.6	i9	4	9.72		74.00	-24.28		р	eak	
3	9848.000 51.63			-1.2	27	5	0.36		74.00	-23.64		р	eak	

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



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		(MHz)	(dBuV)	f	factor(d			BuV/m)			uV/m)		dB)							
1		4824.000	57.01	+	-8.7			8.23	+		1.00		5.77					ak		
2		7236.000	55.62		-5.8			9.76	_		4.00		4.24				-	ak		
3	9648.000 51.69				-1.3	1	5	0.38		- 74	1.00	-2	3.62				ре	ak		

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



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		(MHz)	(dBuV)	factor(d			BuV/m)	(0	dBuV/m)	(dB)						
1		4824.000	57.62	-8.7			8.84		74.00	-25.16				pea	k	
2	1	7236.000	55.13	-5.8	6	4	9.27		74.00	-24.73				pea	k	
3	9648.000 51.66		-1.3	1	5	0.35		74.00	-23.65				peal	k		

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



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1	4	4874.000	57.15	Ť	-8.6			8.54		74.00	-25.4				pea	ak	
2	1	7311.000	54.95		-5.7	8	4	9.17		74.00	-24.8	83			pea	ak	
3	9748.000 51.72				-1.4	3	5	0.29		74.00	-23.1	71			pea	ak	

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



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		(MHz)	(dBuV)	factor(d			BuV/m)		lBuV/m)	(dB)					
1		4874.000	56.61	-8.6			8.00		74.00	-26.00			p	eak	
2	7311.000 55.43		55.43	-5.7	8	4	9.65		74.00	-24.35			p	eak	
3	9748.000 51.65			-1.4	3	5	0.22		74.00	-23.78			р	eak	

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



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



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	7386.000 55.32					49.63 74.00			-24.37	· · ·				
9848.000 51.47		-1.2	-1.27 50.20			74.00 -23.80				peak				

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



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## 7.9 99% Bandwidth

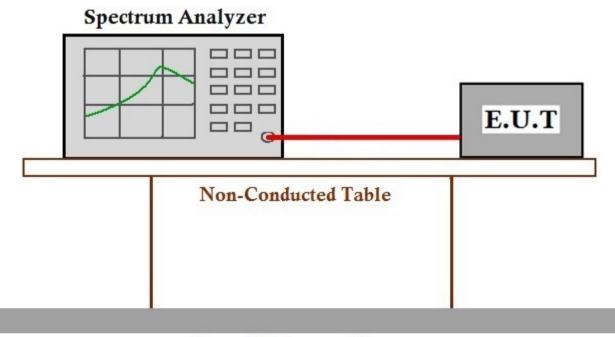
Test Requirement	RSS-Gen Section 6.7
Test Method:	ANSI C63.10 Section 6.9.3

#### 7.9.1 E.U.T. Operation

**Operating Environment:** 

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode with all modulation<br/>types. All data rates for each modulation type have been tested and found the<br/>data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the<br/>worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20). Only the data of worst case is recorded in the report.

#### 7.9.2 Test Setup Diagram



# **Ground Reference Plane**

#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR220100002101



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# 8 Test Setup Photographs

Refer to the < Test Setup photos>.

# 9 EUT Constructional Details

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

- End of the Report -



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