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# **TEST REPORT**

Application No.:	SHEM1809007751CR
FCC ID:	2ADTD-I0G2111
IC:	20199-I0G2111
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Factory:	1,Hangzhou Hikvision Technology Co., Ltd. 2,Hangzhou Hikvision Electronics Co., Ltd. 3, Chongqing Hikvision technology Co., LTD.
Address of Factory:	<ul> <li>1,No.700,Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,</li> <li>310052, China</li> <li>2,No.299,Qiushi Road,Tonglu Economic Development Zone, Tonglu</li> <li>County, Hangzhou,Zhejiang,310052,China</li> <li>3,Building 32, Area C, Jianqiao Industrial Park, Dadukou District,</li> <li>Chongqing.</li> </ul>
Equipment Under Test (EU	Т):
EUT Name:	Network Camera
Model No.:	DS-2CD2121G1-IDW1
Standard(s) :	47 CFR Part 15, Subpart C 15.247,
	RSS-247 Issue 2, February 2017, RSS-Gen Issue 5, April 2018
Date of Receipt:	2018-09-03
Date of Test:	2018-09-17
Date of Issue:	2018-09-29
Test Result:	

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



E&E Section 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	2018-09-29	/

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	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(c)	Pass

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	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
99% Bandwidth	RSS-247 Issue 2, February 2017	ANSI C63.10 Section 6.9.3	RSS-Gen Section 6.6	Pass
Frequency Stability	RSS-Gen April 2018	RSS-Gen Section 6.11	RSS-Gen Section 8.11	Pass (Note 1)

Note 1:Frequency stability requested in RSS GEN S8.11 has been complied since the result of band edge can demonstrate



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# 4 General Information

# 4.1 Details of E.U.T.

Power supply:	DC 12V 0.4A By adapter
Test voltage:	AC 120V/60Hz
Antenna Gain	3.45dBi
Antenna Type	Dipole
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

# 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/
AC Adapter	DVE	ESA-12G-12FEU	/



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# 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
8	PE Dedicted power	4.5dB (Below 1GHz)
0	RF Radiated power	4.8dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Redicted Sourious emission test	4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	4.6dB (1GHz-18GHz)
		5.2dB (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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### 4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.

#### 4.5 Test Facility

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

#### • CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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.

#### • NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

#### • FCC – Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

#### • Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

#### VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

# 4.6 Deviation from Standards

None

# 4.7 Abnormalities from Standard Conditions

None



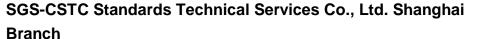


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# 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at AC	Power Line				
EMI test receiver	R&S	ESR7	SHEM162-1	2017-12-20	2018-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
LISN	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
CE test Cable	/	CE01	/	2017-12-26	2018-12-25
Conducted Test					•
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2018-08-13	2019-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2018-08-13	2019-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2018-08-13	2019-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2018-08-13	2019-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2018-08-13	2019-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2018-08-13	2019-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-25	2020-09-24
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01~RF04	/	2017-12-26	2018-12-25
Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2018-08-13	2019-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2018-08-13	2019-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2018-08-13	2019-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25





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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(c)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

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

#### EUT Antenna:

The antenna is RP-SMA connector and no consideration of replacement. The best case gain of the antenna is 3.45dBi.







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#### **Radio Spectrum Matter Test Results** 7

#### 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 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.					

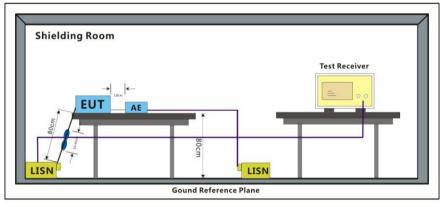
Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.1.2 Test Setup Diagram



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#### 7.1.3 Measurement Procedure and Data

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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 $\mu$ 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.

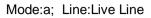
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

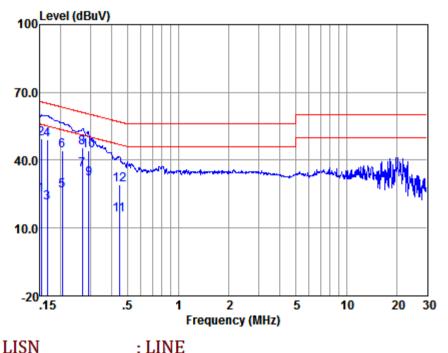
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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#### : LINE

	Freq	Read	LISN	Cable	Emission		0ver	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	14.78	0.05	9.82	24.65	55.87	-31.22	Average
2	0.15	39.55	0.05	9.82	49.42	65.87	-16.45	QP
3	0.17	11.40	0.05	9.83	21.28	55.16	-33.88	Average
4	0.17	39.24	0.05	9.83	49.12	65.16	-16.04	QP
5	0.20	16.61	0.05	9.83	26.49	53.45	-26.96	Average
6	0.20	34.53	0.05	9.83	44.41	63.45	-19.04	QP
7	0.27	25.80	0.05	9.85	35.70	51.16	-15.46	Average
8	0.27	35.46	0.05	9.85	45.36	61.16	-15.80	QP
9	0.29	22.09	0.05	9.85	31.99	50.46	-18.47	Average
10	0.29	34.17	0.05	9.85	44.07	60.46	-16.39	QP
11	0.45	5.98	0.05	9.84	15.87	46.93	-31.06	Average
12	0.45	19.39	0.05	9.84	29.28	56.93	-27.65	QP
					1 LTCN C		C I I I	

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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Mode:a; Line:Neutral Line

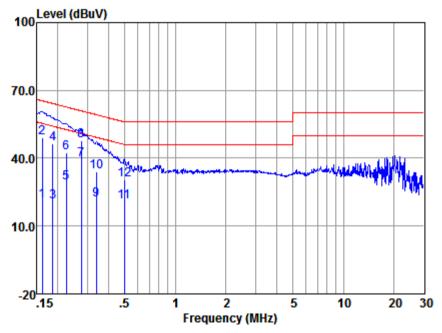
12

0.50

20.54

0.05

\_ \_ \_ \_ \_ \_



	LISN	: NEUTRAL						
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	11.40	0.06	9.82	21.28	55.38	-34.10	Average
2	0.16	39.12	0.06	9.82	49.00	65.38	-16.38	QP
3	0.19	11.00	0.06	9.83	20.89	54.20	-33.31	Average
4	0.19	36.73	0.06	9.83	46.62	64.20	-17.58	QP
5	0.22	19.44	0.06	9.84	29.34	52.66	-23.32	Average
6	0.22	32.42	0.06	9.84	42.32	62.66	-20.34	QP
7	0.28	29.52	0.06	9.85	39.43	50.94	-11.51	Average
8	0.28	37.82	0.06	9.85	47.73	60.94	-13.21	QP
9	0.34	11.74	0.05	9.84	21.63	49.22	-27.59	Average
10	0.34	24.05	0.05	9.84	33.94	59.22	-25.28	QP
11	0.50	10.98	0.05	9.80	20.83	46.05	-25.22	Average

Notes: Emission Level = Read Level +LISN Factor + Cable loss

9.80

30.39

56.05

-25.66

**OP** 





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#### 7.2 Minimum 6dB Bandwidth

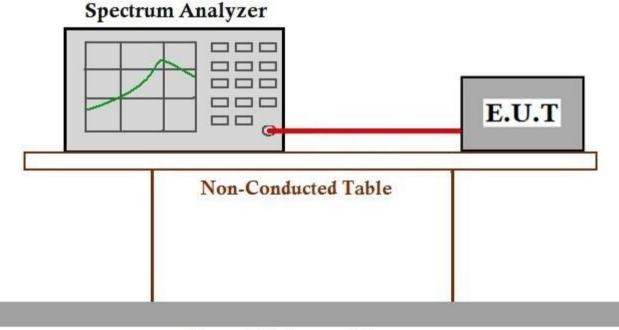
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

#### 7.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature:21 °CHumidity:45 % RHAtmospheric Pressure:1010 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>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 SHEM180900775101



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#### 7.3 Conducted Peak Output Power

Test Requirement	47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method:	ANSI C63.10 (2013) Section 11.9.1
Limit:	

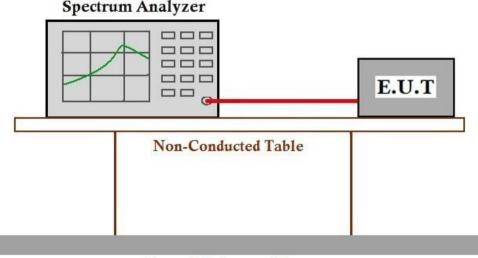
Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850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

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature:21 °CHumidity:45 % RHAtmospheric Pressure:1010 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 802.11b; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>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 SHEM180900775101





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#### 7.4 Power Spectrum Density

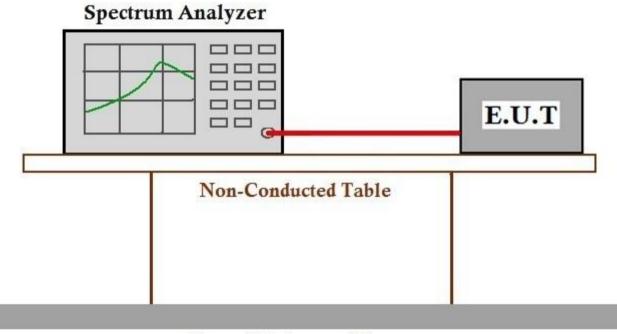
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	$\leq$ 8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.4.1 E.U.T. Operation

**Operating Environment:** 

Temperature:21 °CHumidity:45 % RHAtmospheric Pressure:1010 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>Only the data of worst case is recorded in the report.

#### 7.4.2 Test Setup Diagram



# **Ground Reference Plane**

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180900775101



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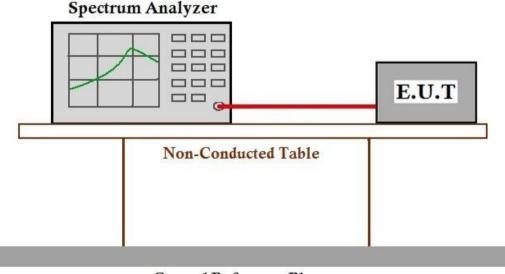
### 7.5 Conducted Band Edges Measurement

	Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
	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)
7.5.1	E.U.T. Operation	

### Operating Environment:

Temperature:21 °CHumidity:45 % RHAtmospheric Pressure:1010 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>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 SHEM180900775101



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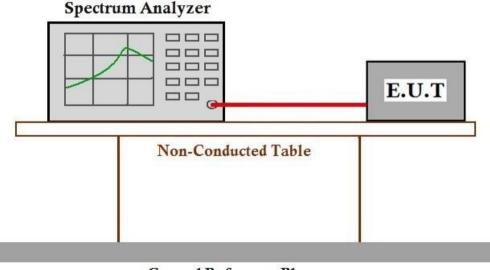
### 7.6 Conducted Spurious Emissions

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)
7.6.1 E.U.T. Operation	

#### Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.6.2 Test Setup Diagram



#### **Ground Reference Plane**

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180900775101



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#### 7.7 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.209 & 15.247(d)				
ANSI C63.10 (2013) Section 6.10.5				
Field strength(microvolts/meter)	Measurement distance(meters)			
2400/F(kHz)	300			
24000/F(kHz)	30			
30	30			
100	3			
150	3			
200	3			
500	3			
	ANSI C63.10 (2013) Section 6.10.5 Field strength(microvolts/meter) 2400/F(kHz) 30 100 150			

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.

#### 7.7.1 E.U.T. Operation

**Operating Environment:** 

Temperature:

22 Humidity: 50 % RH Atmospheric Pressure: 1010 mbar °C 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

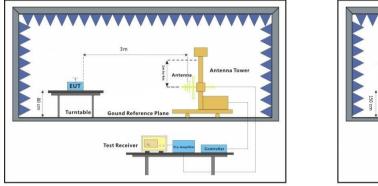


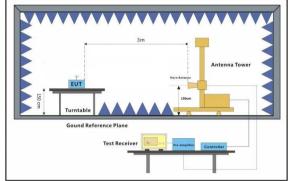
# SGS-CSTC Standards Technical Services Co., Ltd. Shanghai

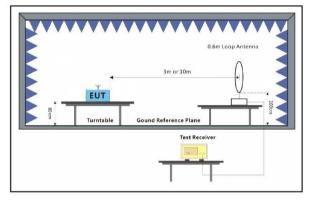
Branch

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#### 7.7.2 Test Setup Diagram







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



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#### 7.7.3 Measurement Procedure and Data

Branch

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

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

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

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

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

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

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

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

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

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

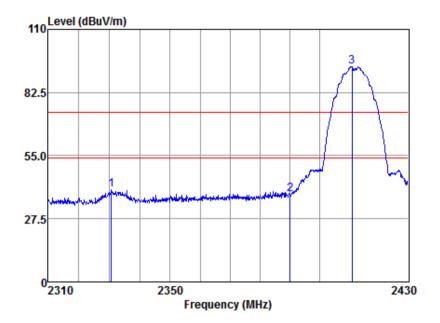
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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



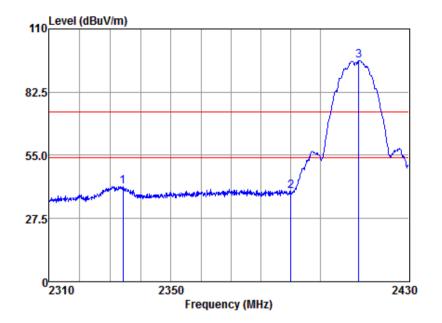
### Antenna Polarity :HORIZONTAL

2330.68 2390.00	74.00	-33.98 -35.83	Peak
2390.00		74.00	74.00 -33.98 74.00 -35.83 74.00 19.84



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



# Antenna Polarity :VERTICAL

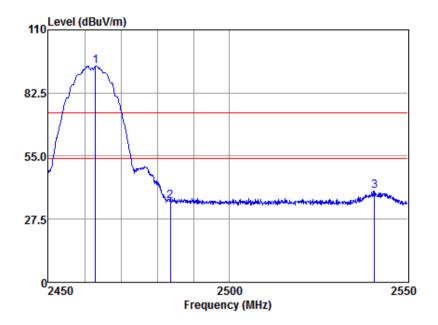
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2334.11	46.60	25.95	6.37	37.37	41.55	74.00	-32.45	Peak
2390.00	44.07	26.03	6.47	37.36	39.21	74.00	-34.79	Peak
2413.08	101.07	26.08	6.50	37.36	96.29	74.00	22.29	Peak

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



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



### Antenna Polarity :HORIZONTAL

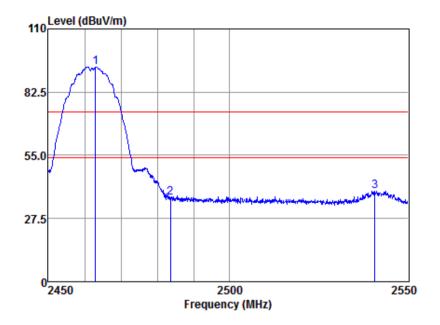
Freq					Emission Level			Remark
2462.97 2483.50	98.86 39.66	26.15 26.18	6.68 6.80	37.46 37.51	dBuv/m 94.23 35.13 39.64	74.00 74.00	20.23 -38.87	Peak

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



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



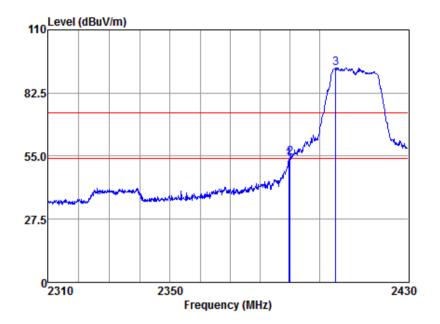
# Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
2462.97 2483.50	98.17 41.20	26.15 26.18	6.68 6.80	37.46 37.51	dBuv/m 93.54 36.67 39.43	74.00 74.00	19.54 -37.33	Peak



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



### Antenna Polarity :HORIZONTAL

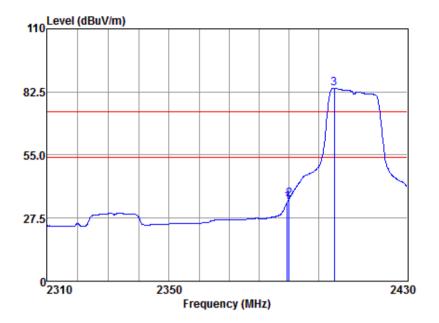
Freq					Emission Level			Remark
2389.61 2390.00	58.53 59.10	26.03 26.03	6.47 6.47	37.36 37.36	dBuv/m 53.67 54.24 93.51	74.00 74.00	-20.33 -19.76	Peak

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



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



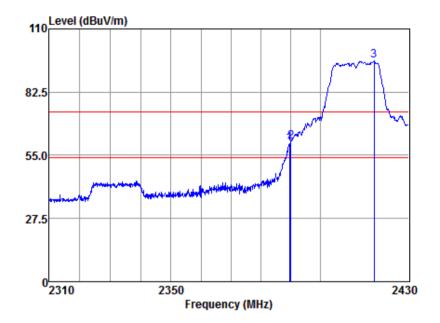
# Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	39.48	26.03	6.47	37.36	34.62	54.00	-19.38	Average
2390.00	40.61	26.03	6.47	37.36	35.75	54.00	-18.25	Average
2405.27	88.90	26.06	6.50	37.35	84.11	54.00	30.11	Average



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



# Antenna Polarity :VERTICAL

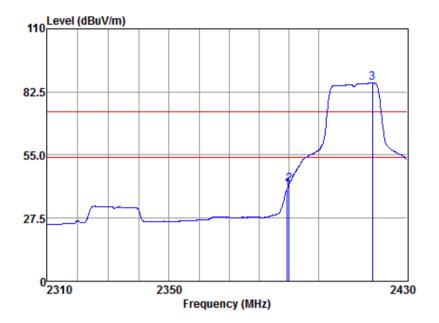
Freq					Emission Level			Remark
2389.61 2390.00	65.12 65.81	26.03 26.03	6.47 6.47	37.36 37.36	dBuv/m 60.26 60.95 96.07	74.00 74.00	-13.74 -13.05	Peak

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



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



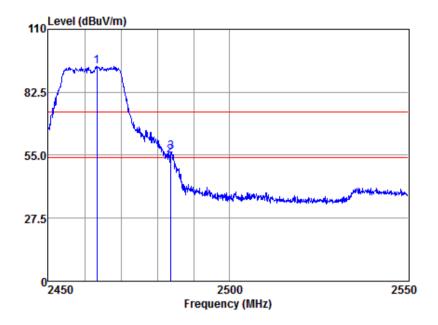
# Antenna Polarity :VERTICAL

Freq		-	Emission Level		Remark
			dBuv/m		
					Average Average
					Average



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



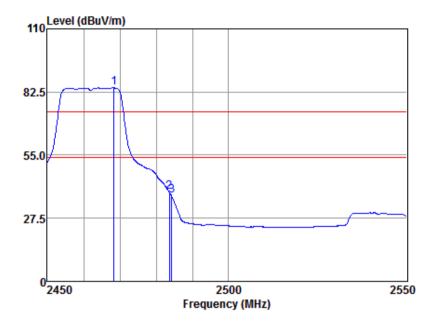
### Antenna Polarity :HORIZONTAL

Freq			Emission Level		Remark
	-		dBuv/m 93.72	-	Peak
		 	54.67 56.49		 



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



### Antenna Polarity :HORIZONTAL

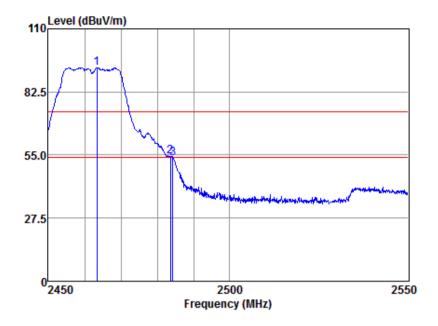
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.30	88.83	26.16	6.74	37.48	84.25	54.00	30.25	Average
2483.50	43.55	26.18	6.80	37.51	39.02	54.00	-14.98	Average
2484.15	41.81	26.18	6.80	37.51	37.28	54.00	-16.72	Average

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



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



# Antenna Polarity :VERTICAL

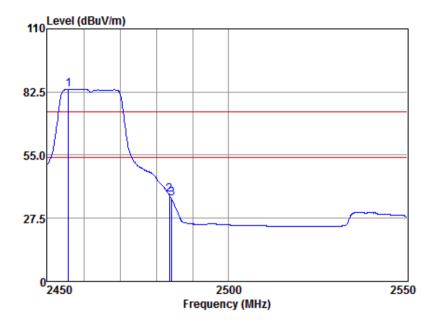
Freq				-	Emission Level			Remark
2463.37 2483.50	97.66 58.87	26.15 26.18	6.68 6.80	37.46 37.51	dBuv/m 93.03 54.34 53.68	74.00 74.00	19.03 -19.66	Peak

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



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



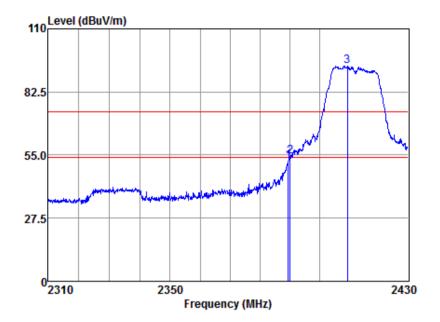
# Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
					dBuv/m			
2455.79	88.31	26.14	6.68	37.45	83.68	54.00	29.68	Average
2483.50	42.15	26.18	6.80	37.51	37.62	54.00	-16.38	Average
2484.15	40.48	26.18	6.80	37.51	35.95	54.00	-18.05	Average



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



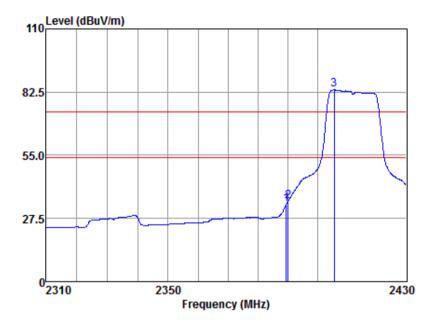
### Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
					dBuv/m 52.45			Peak
2390.00	59.07	26.03	6.47	37.36	54.21 93.71	74.00	-19.79	Peak



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



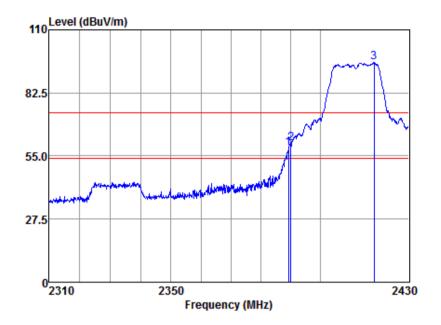
# Antenna Polarity :HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	38.61	26.03	6.47	37.36	33.75	54.00	-20.25	Average
2390.00	39.68	26.03	6.47	37.36	34.82	54.00	-19.18	Average
2405.63	88.24	26.06	6.50	37.35	83.45	54.00	29.45	Average



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



### Antenna Polarity :VERTICAL

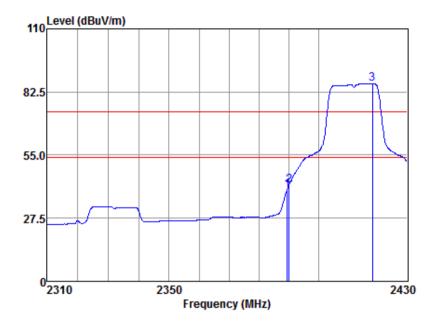
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	63.13	26.03	6.47	37.36	58.27	74.00	-15.73	Peak
2390.00	65.41	26.03	6.47	37.36	60.55	74.00	-13.45	Peak
2418.22	100.58	26.09	6.56	37.38	95.85	74.00	21.85	Peak

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



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



### Antenna Polarity :VERTICAL

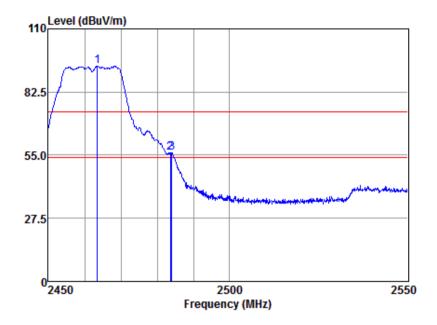
Freq				-	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.36	44.78	26.03	6.47	37.36	39.92	54.00	-14.08	Average
2390.00	46.68	26.03	6.47	37.36	41.82	54.00	-12.18	Average
2418.34	90.84	26.09	6.56	37.38	86.11	54.00	32.11	Average

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



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



### Antenna Polarity :HORIZONTAL

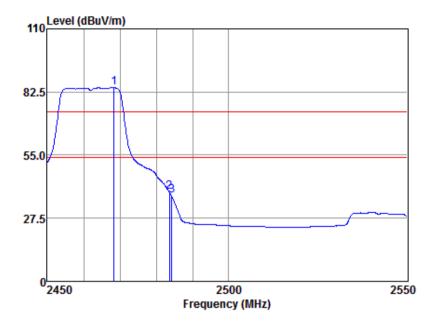
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.47	98.46	26.15	6.68	37.46	93.83	74.00	19.83	Peak
2483.50	60.55	26.18	6.80	37.51	56.02	74.00	-17.98	Peak
2483.95	60.51	26.18	6.80	37.51	55.98	74.00	-18.02	Peak

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



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



### Antenna Polarity :HORIZONTAL

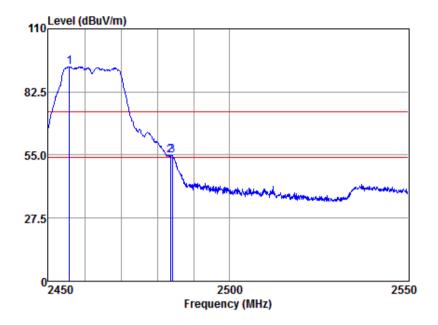
Freq				Emission Level			Remark
2468.30	26.16	6.74	37.48	dBuv/m 84.29 38.97	54.00	30.29	Average Average
							Average

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



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



### Antenna Polarity :VERTICAL

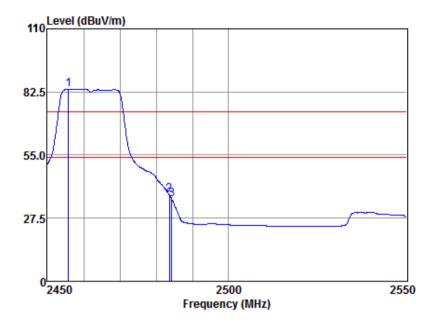
Freq					Emission Level			Remark
2455.79 2483.50	98.11 59.29	26.14 26.18	6.68 6.80	37.45 37.51	dBuv/m 93.48 54.76 54.83	74.00 74.00	19.48 -19.24	Peak

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



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



### Antenna Polarity :VERTICAL

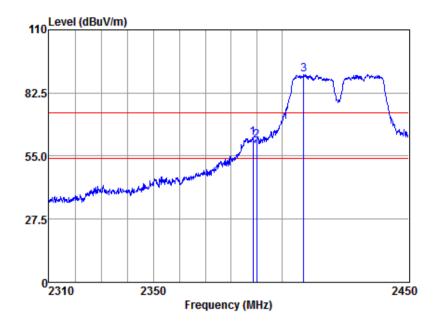
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2455.79	88.32	26.14	6.68	37.45	83.69	54.00	29.69	Average
2483.50	42.23	26.18	6.80	37.51	37.70	54.00	-16.30	Average
2484.25	40.25	26.18	6.80	37.51	35.72	54.00	-18.28	Average

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



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



### Antenna Polarity :HORIZONTAL

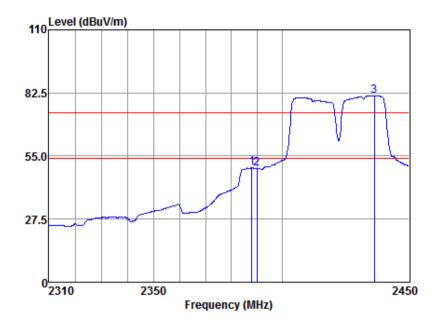
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.51	67.72	26.03	6.47	37.36	62.86	74.00	-11.14	Peak
2390.00	66.46	26.03	6.47	37.36	61.60	74.00	-12.40	Peak
2408.41	95.49	26.06	6.50	37.35	90.70	74.00	16.70	Peak

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



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



### Antenna Polarity :HORIZONTAL

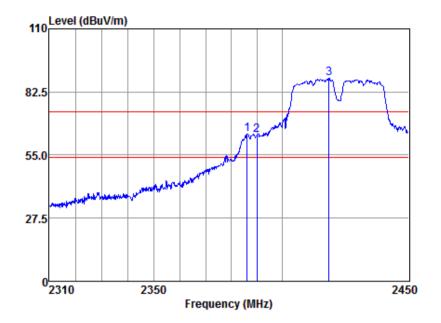
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.95	54.73	26.03	6.47	37.36	49.87	54.00	-4.13	Average
2390.00	54.45	26.03	6.47	37.36	49.59	54.00	-4.41	Average
2436.34	85.99	26.11	6.62	37.41	81.31	54.00	27.31	Average

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



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



### Antenna Polarity :VERTICAL

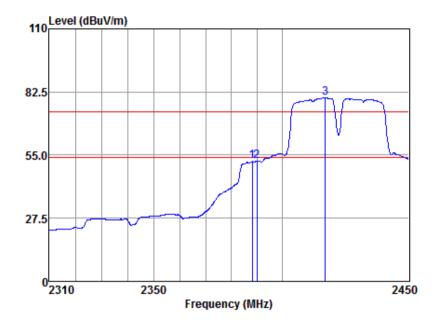
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.12	69.14	26.03	6.47	37.36	64.28	74.00	-9.72	Peak
2390.00	68.51	26.03	6.47	37.36	63.65	74.00	-10.35	Peak
2418.35	93.24	26.09	6.56	37.38	88.51	74.00	14.51	Peak

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



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



### Antenna Polarity :VERTICAL

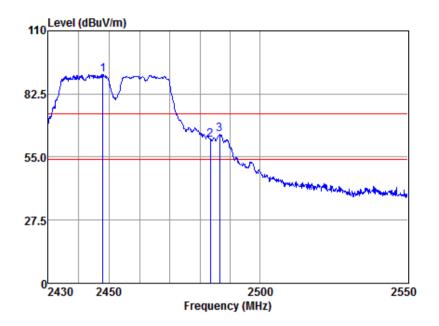
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.09	57.02	26.03	6.47	37.36	52.16	54.00	-1.84	Average
2390.00	57.08	26.03	6.47	37.36	52.22	54.00	-1.78	Average
2416.93	84.59	26.08	6.56	37.36	79.87	54.00	25.87	Average

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



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



### Antenna Polarity :HORIZONTAL

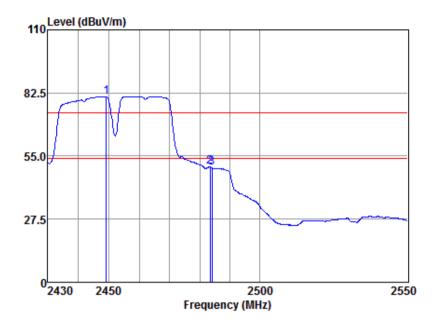
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2447.99	95.50	26.13	6.68	37.43	90.88	74.00	16.88	Peak
2483.50	67.10	26.18	6.80	37.51	62.57	74.00	-11.43	Peak
2486.52	69.28	26.18	6.80	37.51	64.75	74.00	-9.25	Peak

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



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



### Antenna Polarity :HORIZONTAL

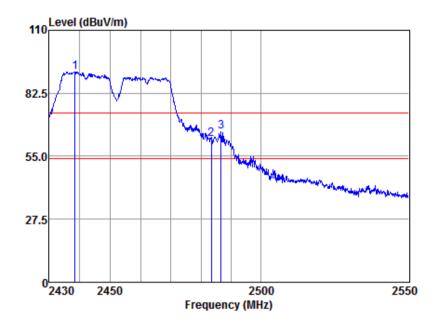
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2449.17	85.44	26.13	6.68	37.43	80.82	54.00	26.82	Average
2483.50	54.68	26.18	6.80	37.51	50.15	54.00	-3.85	Average
2484.12	54.33	26.18	6.80	37.51	49.80	54.00	-4.20	Average

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



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



### Antenna Polarity :VERTICAL

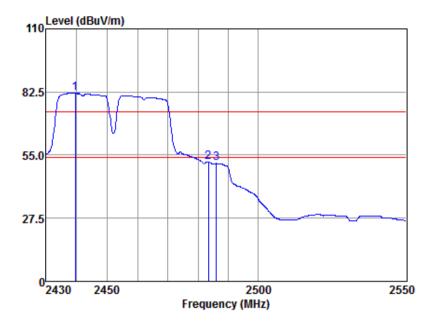
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2438.45	96.51	26.11	6.62	37.41	91.83	74.00	17.83	Peak
2483.50	67.08	26.18	6.80	37.51	62.55	74.00	-11.45	Peak
2486.64	70.12	26.18	6.80	37.51	65.59	74.00	-8.41	Peak

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



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



### Antenna Polarity :VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2439.51	86.59	26.12	6.62	37.42	81.91	54.00	27.91	Average
2483.50	56.47	26.18	6.80	37.51	51.94	54.00	-2.06	Average
2486.04	55.92	26.18	6.80	37.51	51.39	54.00	-2.61	Average

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



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### 7.8 Radiated Spurious Emissions

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

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

**Operating Environment:** 

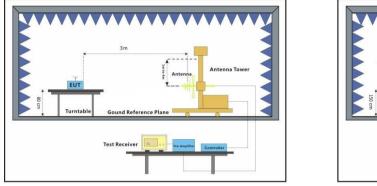
Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modea:TX mode\_Keep the EUT in continuously transmitting mode with all modulation<br/>types. All data rates for each modulation type have been tested and found the<br/>data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the<br/>worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>Only the data of worst case is recorded in the report.

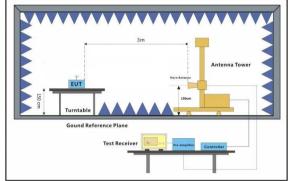


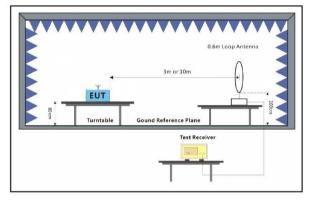
Branch

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### 7.8.2 Test Setup Diagram









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#### 7.8.3 Measurement Procedure and Data

Branch

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.

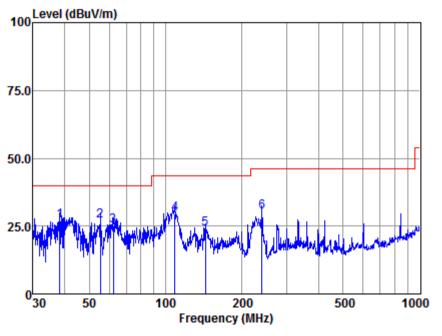
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower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



Branch

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Below 1GHz: Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL

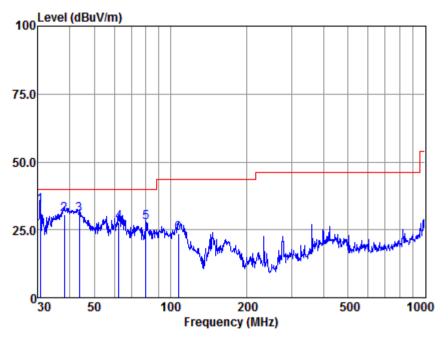
	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	38.21	54.14	16.14	0.22	43.69	26.81	40.00	-13.19	QP
2	55.22	58.56	11.68	0.28	43.74	26.78	40.00	-13.22	QP
3	62.21	56.33	12.33	0.30	43.75	25.21	40.00	-14.79	QP
4	108.65	63.14	9.59	0.49	43.74	29.48	43.50	-14.02	QP
5	143.33	55.59	11.51	0.61	43.73	23.98	43.50	-19.52	QP
6	239.99	62.24	11.10	0.75	43.66	30.43	46.00	-15.57	QP

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



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL

	Freq					Emission Level			Remark
	MHz	dBuv			dB		dBuv/m		
1	30.64	62.12	15.37	0.19	43.66	34.02	40.00	-5.98	QP
2	38.08	57.98	16.13	0.22	43.69	30.64	40.00	-9.36	QP
3	43.66	59.92	14.07	0.23	43.71	30.51	40.00	-9.49	QP
4	62.65	58.98	12.27	0.31	43.75	27.81	40.00	-12.19	QP
5	79.80	62.84	8.09	0.38	43.73	27.58	40.00	-12.42	QP
6	107.13	57.29	9.57	0.49	43.74	23.61	43.50	-19.89	QP

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



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Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         -6.00         peak           7236         39.35         10.76         50.11         54         -6.00         peak           9648         35.00         14.37         49.37         54         -4.63         peak           Mode:a;         Polarization:Vertical;         Moulation:b;         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -4.19         peak           7236         39.55         10.76         50.31         54         -3.69         peak           7236         39.55         10.76         50.31         54         -6.68         peak           Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency	Above 1GHz						
MHzdBuVdBdBuV/mdBdBuV/mdB $4824$ 41.606.4048.0054-6.00peak723639.3510.7650.1154-3.89peak964835.0014.3749.3754-4.63peakMode:a;Polarization:Vertical;Modulation:b;bandwidth:20MHz;Channel:LowFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBUV/mdB-4.19peak723639.5510.7650.3154-3.69peak964832.9514.3747.3254-6.68peak964832.9514.3747.3254-6.68peak964832.9514.3747.3254-6.68peak723639.5510.7650.3154-7.71peak964832.9514.3747.3254-6.08peak731135.2111.0846.2954-7.71peak974833.5614.3647.9254-6.08peak487448.496.9245.4154-8.59peak974834.906.9245.4154-8.59peak487438.496.9245.4154-3.69peak974836.0314.3650.3954-3.61peak487438.496.9245.41<							
4824       41.60       6.40       48.00       54       -6.00       peak         7236       39.35       10.76       50.11       54       -3.89       peak         9648       35.00       14.37       49.37       54       -4.63       peak         Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       dBu/m       dB       -4.19       peak         7236       39.55       10.76       50.31       54       -3.69       peak         9648       32.95       14.37       47.32       54       -6.68       peak         7311       35.21       11.08       dBuV/m       dB       dBuV/m       dB       dBuV/m         4874       41.94       6.92       48.86       54       -5.14       peak         7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         7311       37.98       11.08       49.06							Detector
7236       39.35       10.76       50.11       54       -3.89       peak         9648       35.00       14.37       49.37       54       -4.63       peak         Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -4.19       peak         7236       39.55       10.76       50.31       54       -3.69       peak         9648       32.95       14.37       47.32       54       -6.68       peak         9648       32.95       14.37       47.32       54       -5.14       peak         7311       35.21       11.08       46.29       54       -5.14       peak         7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         7311       37.98       11.08       49.06       54       -4.94       peak         7311       37.98       11.08       49.06       54       -4.94       peak <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
9648         35.00         14.37         49.37         54         -4.63         peak           Mode:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20/MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -4.19         peak           4824         43.41         6.40         49.81         54         -4.19         peak           7236         39.55         10.76         50.31         54         -3.69         peak           9648         32.95         14.37         47.32         54         -6.68         peak           Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         eak         -6.08         peak           7311         35.21         11.08         46.29         54         -6.71         peak           Mdeat							
Mode:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4824         43.41         6.40         49.81         54         -4.19         peak           7236         39.55         10.76         50.31         54         -3.69         peak           9648         32.95         14.37         47.32         54         -6.68         peak           Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         4874         1.94         6.92         48.86         54         -5.14         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak							•
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4824         43.41         6.40         49.81         54         -4.19         peak           7236         39.55         10.76         50.31         54         -3.69         peak           9648         32.95         14.37         47.32         54         -6.68         peak           9648         32.95         14.37         47.32         54         -6.68         peak           Prequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -5.14         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -4.94         peak	9648	35.00	14.37	49.37	54	-4.63	peak
MHz         dBuV         dB         dBuV/m         dBuV/m         dB           4824         43.41         6.40         49.81         54         -4.19         peak           7236         39.55         10.76         50.31         54         -3.69         peak           9648         32.95         14.37         47.32         54         -6.68         peak           Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -6.08         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak           Mde:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB	Mode:a; Pol	arization:\	/ertical; M	odulation:b;	bandwidth:	20MHz; Cha	annel:Low
482443.416.4049.8154-4.19peak723639.5510.7650.3154-3.69peak964832.9514.3747.3254-6.68peak964832.9514.3747.3254-6.68peakMode:a;Polarization:Horizontal;Modulation:b;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-7.71peak974833.5614.3647.9254-6.08peakMde:a;Polarization:Vertical;Modulation:b;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-8.59peak731137.9811.0849.0654-4.94peak974836.0314.3650.3954-3.61peak974836.0314.3650.3954-3.61peak974836.0314.3650.7354-3.61peak974836.0314.3650.7354-3.61peak974836.0314.3650.7354-3.61peak974836.0314.3650.7354-3.61peak974836.0314.3650.7354-3.61pea	Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
7236       39.55       10.76       50.31       54       -3.69       peak         9648       32.95       14.37       47.32       54       -6.68       peak         Mode:a; Pol=rization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       dBuV       dB         4874       41.94       6.92       48.86       54       -5.14       peak         7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         Mode:a; Pol=rization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV       dB       -8.59       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         Mdee:a; Po	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
9648         32.95         14.37         47.32         54         -6.68         peak           Mode:a;         Polarization:Horizontal;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         4874         41.94         6.92         48.86         54         -5.14         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak           Mode:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         49.06         54         -4.94         peak           9748         36.03         14.36         50.39         54         -3.61         peak           Mde:a;         Polarization:Horizontal; </td <td>4824</td> <td>43.41</td> <td>6.40</td> <td>49.81</td> <td>54</td> <td>-4.19</td> <td>peak</td>	4824	43.41	6.40	49.81	54	-4.19	peak
Mode:a;Polarization:Horizontal;Modulation:b;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBu487441.946.9248.8654-5.14peak731135.2111.0846.2954-7.71peak974833.5614.3647.9254-6.08peakMode:a;Polarization:Vertical;Modulation:b;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-8.59peak487438.496.9245.4154-8.59peak731137.9811.0849.0654-4.94peak974836.0314.3650.3954-3.61peak974836.0314.3650.3954-3.61peakMode:a;Polarization:Horizontal;Modulation:b;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-3.61peak974836.0314.3650.7854-3.61peak984831.1914.3845.5754-8.43peak984831.1914.3845	7236	39.55	10.76	50.31	54	-3.69	peak
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4874         41.94         6.92         48.86         54         -5.14         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak           Mode:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV         dB         -8.59         peak           7311         37.98         11.08         49.06         54         -4.94         peak           9748         36.03         14.36         50.39         54         -3.61         peak           Mde:a;         POar_Extor         Emission         Limit         Over Limit         Detector           MHz	9648	32.95	14.37	47.32	54	-6.68	peak
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4874         41.94         6.92         48.86         54         -5.14         peak           7311         35.21         11.08         46.29         54         -7.71         peak           9748         33.56         14.36         47.92         54         -6.08         peak           Mode:a;         Polarization:Vertical;         Modulation:b;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV         dB         -8.59         peak           7311         37.98         11.08         49.06         54         -4.94         peak           9748         36.03         14.36         50.39         54         -3.61         peak           Mde:a;         POar_Extor         Emission         Limit         Over Limit         Detector           MHz	Modera: Pol	arization·F	lorizontal:	Modulation:	h: bandwid	lth:20MHz: (	Channel middle
MHz       dBuV       dB       dBuV/m       dB       dBuV/m       dB         4874       41.94       6.92       48.86       54       -5.14       peak         7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         Mode:a;       Polarization:Vertical;       Modulation:b;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -6.08       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         9748       36.03       14.36       50.79       54       -3.61       peak         Mde:a;       Polarization:Horizontal;       Modulation:b;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz							
4874       41.94       6.92       48.86       54       -5.14       peak         7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         Mode:a; Polarization:Variation:Variation:b; bandwidth: 20MHz; Channel:middle       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBu//m       dB       -6.08       peak         4874       38.49       6.92       45.41       54       -8.59       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         9748       36.03       14.36       50.39       54       -3.61       peak         Prequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBU/m       dB       -3.22       peak         9848       31.19       14.38       45.57       54       -8.43       peak							20100101
7311       35.21       11.08       46.29       54       -7.71       peak         9748       33.56       14.36       47.92       54       -6.08       peak         Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBU/m       dB       -8.59       peak         4874       38.49       6.92       45.41       54       -8.59       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         Mode:a; Polarization:Horizontal;       Modulation:b; bandwidth:20MHz; Channel:High       Detector       MHz       dBuV       dB       dBuV/m       dB         MHz       dBuV       dB       dBuV/m       dBu/m       dB       -3.61       peak         7386       34.25       11.41       45.66       54       -3.22       peak         7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       <							peak
974833.5614.3647.9254-6.08peakMode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdBdBuV/mdB487438.496.9245.4154-8.59peak731137.9811.0849.0654-4.94peak974836.0314.3650.3954-3.61peakMode:a; Polarization:Horizontal;Modulation:b; bandwidth:20MHz; Channel:Highpeak0ver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-3.61peak492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMde:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Highpeak-8.43peak492440.517.3147.8254-6.18peak984831.1914.3147.8254-6.18peak492440.517.3147.8254-6.18peak492440.517.3147.8254-6.18peak492440.517.3147.8254-6.18peak492440.517.3147.8254-7.60<							•
Mode:a;Polarization:Vertical;Modulation:b;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdB487438.496.9245.4154-8.59peak731137.9811.0849.0654-4.94peak974836.0314.3650.3954-3.61peakMode:a;Polarization:Horizontal;Modulation:b;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMode:a;Polarization:Vertical;Modulation:b;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdB-8.43peak984831.1914.3845.5754-8.43peakMHzdBuVdBdBuV/mdBUver LimitDetectorMHzABuVAB49.2440.517.3147.8254-6.18peak492440.517.3147.8254-6.18peak7.6							
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4874         38.49         6.92         45.41         54         -8.59         peak           7311         37.98         11.08         49.06         54         -4.94         peak           9748         36.03         14.36         50.39         54         -3.61         peak           Mode:a;         Pol-ization:Horization:Horizontal;         Modulation:Bission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -3.61         peak           Yore Limit         Outer Limit         Over Limit         Detector         Meak         -3.61         peak           Mde:a;         Polization:Horization:Horization:Bission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         -3.22         peak           4924         43.47         7.31         50.78         54         -8.43         peak <tr< td=""><td>3740</td><td>55.50</td><td>14.50</td><td>47.32</td><td>54</td><td>-0.00</td><td>реак</td></tr<>	3740	55.50	14.50	47.32	54	-0.00	реак
MHz       dBuV       dB       dBuV/m       dBuV/m       dB         4874       38.49       6.92       45.41       54       -8.59       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         Mode:a;       Polarization:Horizontal;       Modulation:b;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -3.22       peak         4924       43.47       7.31       50.78       54       -3.22       peak         7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       54       -8.43       peak         Mode:a; Pol-ization:Vertical; Modulation:b;       bandwidth:20MHz; Channel:High       peak         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       d	Mode:a; Pol	arization:\	/ertical; M	odulation:b;	bandwidth:	20MHz; Cha	annel:middle
4874       38.49       6.92       45.41       54       -8.59       peak         7311       37.98       11.08       49.06       54       -4.94       peak         9748       36.03       14.36       50.39       54       -3.61       peak         Mode:a; Pol-ization:Hurizontal; Kodulation:b; bandwidth:Detector       Imit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB         4924       43.47       7.31       50.78       54       -3.22       peak         7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       54       -8.43       peak         Mode:a; Pol-ization://arxiton.arxiton://arxiton.arxiton://arxiton://arxiton://arxiton://arxito	Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
731137.9811.0849.0654-4.94peak974836.0314.3650.3954-3.61peakMode:a; Pol=rization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBdBuV/mdB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMode:a; Pol=rization:Vertical; Modulation:b; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitMde:a; Pol=rization:Vertical; Modulation:b; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitMde:a; Pol=rization:Vertical; Modulation:b; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitMHzdBuVdBdBuV/mdBUmationdB492440.517.3147.8254-6.18peak492440.517.3146.4054-7.60peak	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
974836.0314.3650.3954-3.61peakMode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBUdBQBUV/mQBQB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBJeak492440.517.3147.8254-6.18peak492440.517.3146.4054-7.60peak14.3845.4054-7.60peak	4874	38.49	6.92	45.41	54	-8.59	peak
Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdBdBuV/mdB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakFrequencyRX_RFactorEmissionLimitOver LimitDetectorMde:a; Polarization:Vertical; Modulation:b; bandwidth: 20MHz; Channel:HighOver LimitDetectorDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak	7311	37.98	11.08	49.06	54	-4.94	peak
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMode:a; Pol=ization:Vertical; Moultation:b; bandwidth: 20MHz; Chamel:HighDetectorMHzdBuVdBMHzdBuVdBdBuV/mdBuV/mdBdBuV/mMHzdBuVdBdBuV/mdBuV/mdBeak492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak	9748	36.03	14.36	50.39	54	-3.61	peak
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdB492443.477.3150.7854-3.22peak738634.2511.4145.6654-8.34peak984831.1914.3845.5754-8.43peakMode:a; Pol=ization:Vertical; Moultation:b; bandwidth: 20MHz; Chamel:HighDetectorMHzdBuVdBMHzdBuVdBdBuV/mdBuV/mdBdBuV/mMHzdBuVdBdBuV/mdBuV/mdBeak492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak	Mada a Dal		1				
MHz       dBuV       dB       dBuV/m       dBuV/m       dB         4924       43.47       7.31       50.78       54       -3.22       peak         7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       54       -8.43       peak         Mode:a;       Polarization:Vertical;       Modulation:b;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       dBuV/m       dB         4924       40.51       7.31       47.82       54       -6.18       peak         7386       34.99       11.41       46.40       54       -7.60       peak							-
4924       43.47       7.31       50.78       54       -3.22       peak         7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       54       -8.43       peak         Mode:a; Polarization:Vertical; Mode:a; Polarization: Vertical; Mode:a; Polarization: Vertical; Mode:a; Pactor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       dB       Peak         4924       40.51       7.31       47.82       54       -6.18       peak         7386       34.99       11.41       46.40       54       -7.60       peak	1 2						Delector
7386       34.25       11.41       45.66       54       -8.34       peak         9848       31.19       14.38       45.57       54       -8.43       peak         Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -6.18       peak         7386       34.99       11.41       46.40       54       -7.60       peak							naak
984831.1914.3845.5754-8.43peakMode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak							•
Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Over Limit DetectorMHzdBuVdBdBuV/mdB492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak							-
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak	9848	31.19	14.38	45.57	54	-8.43	реак
MHz dBuV dB dBuV/m dBuV/m dB 4924 40.51 7.31 47.82 54 -6.18 peak 7386 34.99 11.41 46.40 54 -7.60 peak	Mode:a; Pol	arization:\	/ertical; M	odulation:b;	bandwidth:	20MHz; Cha	annel:High
492440.517.3147.8254-6.18peak738634.9911.4146.4054-7.60peak	Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
7386 34.99 11.41 46.40 54 -7.60 peak	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
•	4924	40.51	7.31	47.82	54	-6.18	peak
9848 31.73 14.38 46.11 54 -7.89 peak	7386	34.99	11.41	46.40	54	-7.60	peak
	9848	31.73	14.38	46.11	54	-7.89	peak



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Mode:a;         Polarization:Horizontal;         Modulation:g:         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         -4.49         peak           7236         39.76         10.76         50.52         54         -3.48         peak           9648         35.42         14.37         49.79         54         -4.21         peak           Mode:a;         Polarization:Vertical;         Modulation:g;         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -5.09         peak           7236         38.13         10.76         48.89         54         -5.11         peak           9648         32.86         14.37         47.23         54         -6.77         peak           Mde:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency				•••••			
MHz         dBuV         dB         dBuV/m         dB         -4.49         peak           4824         43.11         6.40         49.51         54         -4.49         peak           7236         39.76         10.76         50.52         54         -3.48         peak           9648         35.42         14.37         49.79         54         -4.21         peak           Mode:a;         Polarization:Vertical;         Modulation:g;         bandwidth:20MHz;         Channel:Low           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         -5.09         peak           7236         38.13         10.76         48.89         54         -5.11         peak           9648         32.86         14.37         47.23         54         -6.77         peak           Mode:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB					-		
4824       43.11       6.40       49.51       54       -4.49       peak         7236       39.76       10.76       50.52       54       -3.48       peak         9648       35.42       14.37       49.79       54       -4.21       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:Low         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -5.09       peak         7236       38.13       10.76       48.89       54       -5.11       peak         9648       32.86       14.37       47.23       54       -6.77       peak         Mode:a;       Polarization:Vertizontal;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       dBuV/m       dB       49.83       54       -4.17       peak         7311       38.75       11.08       49.83       54       -4.17							Detector
7236       39.76       10.76       50.52       54       -3.48       peak         9648       35.42       14.37       49.79       54       -4.21       peak         Mode:a; Polarization:Vertical; Modulation;; bandwidth:20MHz; Channel:Low       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -5.09       peak         7236       38.13       10.76       48.89       54       -5.11       peak         9648       32.86       14.37       47.23       54       -6.77       peak         Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       UV/m       dB       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       dF.47       54       -6							
9648       35.42       14.37       49.79       54       -4.21       peak         Mode:a;       Polarization:Vertical;       Moduliton:g;       bandwidth:20MHz;       Channel:Low         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -5.09       peak         4824       42.51       6.40       48.91       54       -5.11       peak         7236       38.13       10.76       48.89       54       -5.11       peak         9648       32.86       14.37       47.23       54       -6.77       peak         Prequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dBu       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         7311       38.75       6.92       46.27       54       -7.73       peak         73							
Mode:a;Polarization:Vertical;Modulation:g;bandwidth:20MHz;Channel:LowFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB482442.516.4048.9154-5.09peak723638.1310.7648.8954-5.11peak964832.6614.3747.2354-6.77peakMode:a;Polarization:Horizontal;Modulation:g;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB487443.006.9249.9254-4.08peak731138.7511.0849.8354-4.17peak974833.1114.3647.4754-6.53peakMode:a;Polarization:Vertical;Modulation:g;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-5.53peak-6.53peak731138.7511.0845.8854-7.73peak-7.73peak731134.8011.0845.8854-8.12peak974836.7914.3651.1554-2.85peak492438.377.31<							•
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         dBuV/m         dB           4824         42.51         6.40         48.91         54         -5.09         peak           7236         38.13         10.76         48.89         54         -5.11         peak           9648         32.86         14.37         47.23         54         -6.77         peak           Mode:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         400/m         400           4874         43.00         6.92         49.92         54         -4.08         peak           7311         38.75         11.08         49.83         54         -4.17         peak           9748         30.11         14.36         dBuV/m         dB         dBu/m         dB         40.7.73         peak	9648	35.42	14.37	49.79	54	-4.21	peak
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         dBuV/m         dB           4824         42.51         6.40         48.91         54         -5.09         peak           7236         38.13         10.76         48.89         54         -5.11         peak           9648         32.86         14.37         47.23         54         -6.77         peak           Mode:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         400/m         400           4874         43.00         6.92         49.92         54         -4.08         peak           7311         38.75         11.08         49.83         54         -4.17         peak           9748         30.11         14.36         dBuV/m         dB         dBu/m         dB         40.7.73         peak	Mode:a: Pol	arization:	Vertical: M	odulation:a:	bandwidth:	20MHz: Cha	annel:Low
MHz         dBuV         dB         dBuV/m         dB         dB           4824         42.51         6.40         48.91         54         -5.09         peak           7236         38.13         10.76         48.89         54         -5.11         peak           9648         32.86         14.37         47.23         54         -6.77         peak           Mode:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dB         -4.08         peak           7311         38.75         11.08         49.83         54         -4.17         peak           9748         33.11         14.36         47.47         54         -6.53         peak           Mde:a;         Polarization:Vertical;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m				-			
4824       42.51       6.40       48.91       54       -5.09       peak         7236       38.13       10.76       48.89       54       -5.11       peak         9648       32.86       14.37       47.23       54       -6.77       peak         Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBU/m       dB       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle       Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBU/m       dB       Mu/m       dB       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85 </td <td></td> <td></td> <td>dB</td> <td>dBuV/m</td> <td>dBuV/m</td> <td></td> <td></td>			dB	dBuV/m	dBuV/m		
7236       38.13       10.76       48.89       54       -5.11       peak         9648       32.86       14.37       47.23       54       -6.77       peak         Mode:a;       Polarization:Horizontal;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBu/m       dB       -5.15       54       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>peak</td>							peak
9648         32.86         14.37         47.23         54         -6.77         peak           Mode:a;         Polarization:Horizontal;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         4804           4874         43.00         6.92         49.92         54         -4.08         peak           7311         38.75         11.08         49.83         54         -4.17         peak           9748         33.11         14.36         47.47         54         -6.53         peak           Mode:a;         Polizization:Vertical;         Modulation:g;         bandwidth:20MHz;         Channel:middle           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBu         -7.73         peak           7311         34.80         11.08         45.88         54         -8.12         peak           9748         36.79         14.36<							•
Mode:a;       Polarization:Horizontal;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       peak         4874       43.00       6.92       49.92       54       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       dBuV/m       dB         4874       39.35       6.92       46.27       54       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         Hz							•
Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -4.08       peak         4874       43.00       6.92       49.92       54       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         9748       36.79       14.36       51.15       54       -8.32       peak         4924       38.37       7.31       45.68       54       -4.42       peak <td< td=""><td>0010</td><td>02.00</td><td>11.07</td><td>11.20</td><td>01</td><td>0.11</td><td>pour</td></td<>	0010	02.00	11.07	11.20	01	0.11	pour
MHz       dBuV       dB       dBuV/m       dB         4874       43.00       6.92       49.92       54       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:middle         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         9748       36.79       14.36       51.15       54       -2.85       peak         Mode:a;       Polarization:Horizontal;       Modulation:g;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m	Mode:a; Pol	arization:	Horizontal;	Modulation:	g; bandwid	lth:20MHz; (	Channel:middle
4874       43.00       6.92       49.92       54       -4.08       peak         7311       38.75       11.08       49.83       54       -4.17       peak         9748       33.11       14.36       47.47       54       -6.53       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Chamelinitian         MHz       dBuV       dB       dBuV/m       dB       Over Limit       Detector         MHz       39.35       6.92       46.27       54       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         9748       36.79       14.36       51.15       54       -8.32       peak         Mde:a;       Polarization:Horizontal;       Modulation:g;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       -4.42       peak         38.37       7.31       45.68<	Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
731138.7511.0849.8354-4.17peak974833.1114.3647.4754-6.53peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-7.73peak487439.356.9246.2754-7.73peak731134.8011.0845.8854-8.12peak974836.7914.3651.1554-2.85peak974836.7914.3651.1554-2.85peakMde:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-4.42peak984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-4.42peak984835.9314.3850.3154-3.69peakFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-4.42peak984835.9314.3850	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
974833.1114.3647.4754-6.53peakMode:a; Pol=rization:V=rtical; Modulation:g; bandwidth:20MHz; Channel:middle FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB487439.356.9246.2754-7.73peak731134.8011.0845.8854-8.12peak974836.7914.3651.1554-2.85peakMode:a; Pol=rization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-2.85peak492438.377.3145.6854-8.32peak984835.9314.3850.3154-3.69peakMode:a; Pol=rization:V=rtical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-3.69peakMode:a;Pol=rization:V=rtical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMdc:a; Pol=rization:V=rtical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMdc:a; A63.0314.3850.3154-3.69peak	4874	43.00	6.92	49.92	54	-4.08	peak
Mode:a;Polarization:Vertical;Modulation:g;bandwidth:20MHz;Channel:middleFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB487439.356.9246.2754-7.73peak731134.8011.0845.8854-8.12peak974836.7914.3651.1554-2.85peakMode:a;Polarization:Horizontal;Modulation:g;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB4824-8.32peak492438.377.3145.6854-4.42peak984835.9314.3850.3154-3.69peakMode:a;Polarization:Vertical;Modulation:g;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdB-3.69peakMode:a;Polarization:Vertical;Modulation:g;bandwidth:20MHz;Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdB-4.42peak4.3694.369peakAugustdBuVdBdBuV/mdB </td <td>7311</td> <td>38.75</td> <td>11.08</td> <td>49.83</td> <td>54</td> <td>-4.17</td> <td>peak</td>	7311	38.75	11.08	49.83	54	-4.17	peak
Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           4874         39.35         6.92         46.27         54         -7.73         peak           7311         34.80         11.08         45.88         54         -8.12         peak           9748         36.79         14.36         51.15         54         -2.85         peak           Mode:a;         Polizization:izontal;         Modulation:g;         bandwidth:20MHz;         Channel:High           Frequency         RX_R         Factor         Emission         Limit         Over Limit         Detector           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         -3.69         peak           4924         38.37         7.31         45.68         54         -4.42         peak           9848         35.93         14.38         50.31         54         -3.69         peak           Mce:a;         Polizization:Vertical; Mclation:g;         bandwidth:20MHz; Channel:High         Detector           MHz         dBuV	9748	33.11	14.36	47.47	54	-6.53	peak
Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       a8.12       peak       qpak       qpak       qpak		. ,.					
MHz       dBuV       dB       dBuV/m       dBuV/m       dB         4874       39.35       6.92       46.27       54       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         Mode:a;       Polarization:Horizontal;       Modulation:g;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       4924       38.37       7.31       45.68       54       -8.32       peak         7386       38.17       11.41       49.58       54       -4.42       peak         9848       35.93       14.38       50.31       54       -3.69       peak         Mode:a;       Polarization:Vertical;       Modulation:g;       bandwidth:20MHz;       Channel:High         Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         Mhz       dBuV       dB       dBuV/m       dB				-			
4874       39.35       6.92       46.27       54       -7.73       peak         7311       34.80       11.08       45.88       54       -8.12       peak         9748       36.79       14.36       51.15       54       -2.85       peak         Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -8.32       peak         4924       38.37       7.31       45.68       54       -4.42       peak         9848       35.93       14.38       50.31       54       -3.69       peak         Mode:a; Polizization:Vitical; Modulation:g; bandwidth:ZUMHz; Channel:High Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MMde:a; Polizization:Vitical; Modulation:g; bandwidth:ZUMHz; Channel:High Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dB       Junt       A9.26       54       -4.74       peak         4924       41.95       7.31 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Delector</td>							Delector
731134.8011.0845.8854-8.12peak974836.7914.3651.1554-2.85peakMode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBUV/mdB492438.377.3145.6854-8.32peak492438.377.3145.6854-4.42peak984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuVdB-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-4.74peak492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak							n e e la
974836.7914.3651.1554-2.85peakMode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-8.32peak492438.377.3145.6854-4.42peak984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Motulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdB-3.69peak-3.69peakMode:a; Polarization:Vertical; Motulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB-3.69peak-3.69peakMHzdBuVdBdBuV/mdBuV/mdB-3.69peakMHzdBuVdBdBuV/mdB-3.69peak492441.957.3149.2654-4.74peak492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak							•
Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>•</td>					-		•
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB492438.377.3145.6854-8.32peak738638.1711.4149.5854-4.42peak984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitMHzdBuVdBdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak56peak	9748	36.79	14.36	51.15	54	-2.85	peak
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdBdBuV/mdB492438.377.3145.6854-8.32peak738638.1711.4149.5854-4.42peak984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitMHzdBuVdBdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak56peak	Mode:a; Pol	arization:	Horizontal;	Modulation:	q; bandwid	lth:20MHz; (	Channel:High
4924       38.37       7.31       45.68       54       -8.32       peak         7386       38.17       11.41       49.58       54       -4.42       peak         9848       35.93       14.38       50.31       54       -3.69       peak         Mode:a; Polarization:Vertical; Modulation:g; Bandwidth: 20MHz; Channel:High Frequency       RX_R       Factor       Emission       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       49.24       -4.74       peak         7386       36.93       11.41       48.34       54       -5.66       peak					-		_
7386       38.17       11.41       49.58       54       -4.42       peak         9848       35.93       14.38       50.31       54       -3.69       peak         Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -4.74       peak         4924       41.95       7.31       49.26       54       -4.74       peak         7386       36.93       11.41       48.34       54       -5.66       peak	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
7386       38.17       11.41       49.58       54       -4.42       peak         9848       35.93       14.38       50.31       54       -3.69       peak         Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High       Limit       Over Limit       Detector         MHz       dBuV       dB       dBuV/m       dBuV/m       dB       -4.74       peak         4924       41.95       7.31       49.26       54       -4.74       peak         7386       36.93       11.41       48.34       54       -5.66       peak	4924	38.37	7.31	45.68	54	-8.32	peak
984835.9314.3850.3154-3.69peakMode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak	7386	38.17	11.41	49.58	54	-4.42	•
Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:HighFrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak						-3.69	•
FrequencyRX_RFactorEmissionLimitOver LimitDetectorMHzdBuVdBdBuV/mdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak							<b>F</b> =
MHzdBuVdBdBuV/mdBuV/mdB492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak	Mode:a; Pol	arization:	Vertical; M	odulation:g;	bandwidth:	20MHz; Cha	annel:High
492441.957.3149.2654-4.74peak738636.9311.4148.3454-5.66peak	Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
7386 36.93 11.41 48.34 54 -5.66 peak	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
	4924	41.95	7.31	49.26	54	-4.74	peak
9848 35.41 14.38 49.79 54 -4.21 peak	7386	36.93	11.41	48.34	54	-5.66	peak
	9848	35.41	14.38	49.79	54	-4.21	peak



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Madata: Dal	orizational	Harizontali	Modulation	o: bondwid	1+b·20144	Channel: I aw
Mode:a; Pol Frequency	RX_R	Factor	Emission	Limit	Over Limit	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Delector
4824	43.56	6.40	49.96	54	-4.04	peak
7236	45.50 35.67	0.40 10.76	46.43	54	-7.57	peak
9648	33.58	14.37	40.43 47.95	54 54	-6.05	•
9040	33.00	14.37	47.95	54	-0.05	peak
Mode:a; Pol	arization:'	Vertical; M	odulation:n;	bandwidth:	20MHz; Cha	annel:Low
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	38.03	6.40	44.43	54	-9.57	peak
7236	34.06	10.76	44.82	54	-9.18	peak
9648	34.35	14.37	48.72	54	-5.28	peak
Mode:a; Pol	arization:	Horizontal;	Modulation:	n; bandwid	lth:20MHz; (	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.04	6.92	45.96	54	-8.04	peak
7311	34.40	11.08	45.48	54	-8.52	peak
9748	31.95	14.36	46.31	54	-7.69	peak
Mode:a; Pol						
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Delector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	naali
4874	41.72	6.92	48.64	54	-5.36	peak
7311	37.71	11.08	48.79	54	-5.21	peak
9748	31.61	14.36	45.97	54	-8.03	peak
Modera: Pol	arization	Horizontal:	Modulation	n: handwid	lth:20MHz·(	Channel:High
Frequency	RX_R	Factor	Emission	Limit	-	Detector
MHz	 dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.04	7.31	46.35	54	-7.65	peak
7386	35.98	11.41	47.39	54	-6.61	peak
9848	35.83	14.38	50.21	54	-3.79	peak
5040	00.00	14.00	00.21	04	0.70	peak
Mode:a; Pol	arization:	Vertical; M	odulation:n;	bandwidth:	20MHz; Cha	annel:High
Frequency	RX_R	Factor	Emission	Limit	Over Limit	•
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.19	7.31	46.50	54	-7.50	peak
7386	38.48	11.41	49.89	54	-4.11	peak
9848	32.51	14.38	46.89	54	-7.11	, peak
-	-					



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Modera: Pol	arization	lorizontal <sup>.</sup>	Modulation.	n <sup>.</sup> bandwid	h.40MHz. (	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Over Limit	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	43.35	6.60	49.95	54	-4.05	peak
7266	39.94	10.89	50.83	54	-3.17	peak
9688	32.64	14.35	46.99	54	-7.01	peak
						•
Mode:a; Pol	arization:\	/ertical; M	odulation:n;	bandwidth:	40MHz; Cha	annel:Low
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	41.76	6.60	48.36	54	-5.64	peak
7266	35.30	10.89	46.19	54	-7.81	peak
9688	34.57	14.35	48.92	54	-5.08	peak
						Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.02	6.92	46.94	54	-7.06	peak
7311	37.87	11.08	48.95	54	-5.05	peak
9748	32.35	14.36	46.71	54	-7.29	peak
Modora Dol	arization.	Antical: M	adulation	handwidth:	10MU Ch	annalimiddla
						annel:middle Detector
Frequency	RX_R	Factor	Emission	Limit	Over Limit	
Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Over Limit dB	Detector
Frequency MHz 4874	RX_R dBuV 40.81	Factor dB 6.92	Emission dBuV/m 47.73	Limit dBuV/m 54	Over Limit dB -6.27	Detector peak
Frequency MHz 4874 7311	RX_R dBuV 40.81 36.20	Factor dB 6.92 11.08	Emission dBuV/m 47.73 47.28	Limit dBuV/m 54 54	Over Limit dB -6.27 -6.72	Detector peak peak
Frequency MHz 4874	RX_R dBuV 40.81	Factor dB 6.92	Emission dBuV/m 47.73	Limit dBuV/m 54	Over Limit dB -6.27	Detector peak
Frequency MHz 4874 7311 9748	RX_R dBuV 40.81 36.20 33.21	Factor dB 6.92 11.08 14.36	Emission dBuV/m 47.73 47.28 47.57	Limit dBuV/m 54 54 54	Over Limit dB -6.27 -6.72 -6.43	Detector peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pol	RX_R dBuV 40.81 36.20 33.21 arization:H	Factor dB 6.92 11.08 14.36 Horizontal;	Emission dBuV/m 47.73 47.28 47.57	Limit dBuV/m 54 54 54 54 n; bandwid	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; (	Detector peak peak peak Channel:High
Frequency MHz 4874 7311 9748 Mode:a; Pol	RX_R dBuV 40.81 36.20 33.21 arization:H	Factor dB 6.92 11.08 14.36 Horizontal;	Emission dBuV/m 47.73 47.28 47.57 Modulation:	Limit dBuV/m 54 54 54 54 n; bandwid	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; (	Detector peak peak peak Channel:High
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R	Factor dB 6.92 11.08 14.36 Horizontal; Factor	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission	Limit dBuV/m 54 54 54 n; bandwid Limit	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; 0 Over Limit	Detector peak peak peak Channel:High
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m	Limit dBuV/m 54 54 54 n; bandwid Limit dBuV/m	Over Limit dB -6.27 -6.72 -6.43 hth:40MHz; 0 Over Limit dB	Detector peak peak peak Channel:High Detector peak
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB 7.22	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53	Limit dBuV/m 54 54 54 s4 n; bandwid Limit dBuV/m 54	Over Limit dB -6.27 -6.72 -6.43 hth:40MHz; 0 Over Limit dB -2.85	Detector peak peak peak Channel:High Detector
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB 7.22 11.28 14.37	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69	Limit dBuV/m 54 54 54 s4 timit dBuV/m 54 54 54	Over Limit dB -6.27 -6.72 -6.43 hth:40MHz; 0 Over Limit dB -2.85 -3.47 -6.31	Detector peak peak peak Channel:High Detector peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808 Mode:a; Pol	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32 arization:\	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB 7.22 11.28 14.37 /ertical; M	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69 odulation:n;	Limit dBuV/m 54 54 54 54 n; bandwid Limit dBuV/m 54 54 54 54	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; 0 Over Limit dB -2.85 -3.47 -6.31 40MHz; Cha	Detector peak peak peak Detector peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808 Mode:a; Pol Frequency	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32 arization:\ RX_R	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB 7.22 11.28 14.37 /ertical; M Factor	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69 odulation:n; Emission	Limit dBuV/m 54 54 54 54 n; bandwid Limit dBuV/m 54 54 54 54 54 54	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; C Over Limit dB -2.85 -3.47 -6.31 40MHz; Cha Over Limit	Detector peak peak peak Detector peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808 Mode:a; Pol Frequency MHz	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32 arization:V RX_R dBuV	Factor dB 6.92 11.08 14.36 forizontal; Factor dB 7.22 11.28 14.37 /ertical; M Factor dB	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69 odulation:n; Emission dBuV/m	Limit dBuV/m 54 54 54 74 54 n; bandwid Limit dBuV/m 54 54 54 bandwidth: Limit dBuV/m	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; C Over Limit dB -2.85 -3.47 -6.31 40MHz; Cha Over Limit dB	Detector peak peak peak Detector peak peak peak peak annel:High Detector
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808 Mode:a; Pol Frequency MHz 4904	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32 arization:\ RX_R dBuV 38.42	Factor dB 6.92 11.08 14.36 Horizontal; Factor dB 7.22 11.28 14.37 /ertical; M Factor dB 7.22	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69 odulation:n; Emission dBuV/m 45.64	Limit dBuV/m 54 54 54 54 n; bandwid Limit dBuV/m 54 54 bandwidth: Limit dBuV/m 54	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; 0 Over Limit dB -2.85 -3.47 -6.31 40MHz; Cha Over Limit dB -8.36	Detector peak peak peak Channel:High Detector peak peak peak peak annel:High Detector peak
Frequency MHz 4874 7311 9748 Mode:a; Pol Frequency MHz 4904 7356 9808 Mode:a; Pol Frequency MHz	RX_R dBuV 40.81 36.20 33.21 arization:H RX_R dBuV 43.93 39.25 33.32 arization:V RX_R dBuV	Factor dB 6.92 11.08 14.36 forizontal; Factor dB 7.22 11.28 14.37 /ertical; M Factor dB	Emission dBuV/m 47.73 47.28 47.57 Modulation: Emission dBuV/m 51.15 50.53 47.69 odulation:n; Emission dBuV/m	Limit dBuV/m 54 54 54 74 54 n; bandwid Limit dBuV/m 54 54 54 bandwidth: Limit dBuV/m	Over Limit dB -6.27 -6.72 -6.43 th:40MHz; C Over Limit dB -2.85 -3.47 -6.31 40MHz; Cha Over Limit dB	Detector peak peak peak Detector peak peak peak peak annel:High Detector



Branch

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### 7.9 99% Bandwidth

Test Requirement	
Test Method:	

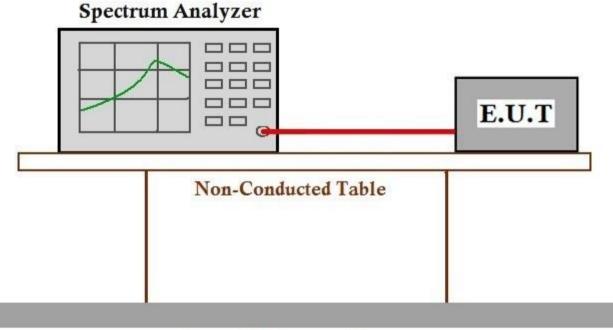
RSS-Gen Section 6.6 ANSI C63.10 Section 6.9.3

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature:21 °CHumidity:45 % RHAtmospheric Pressure:1010 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>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 SHEM180900775101



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### 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

### 9 EUT Constructional Details

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

- End of the Report -