SGS

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological

Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555 Fax: +86 (0) 20 82075059 Email: ee.guangzhou@sgs.com

Report No.: GZEM181000208903 Page: 1 of 64 FCC ID: SP9-00011H

TEST REPORT

Application No.: Applicant: Address of Applicant: Manufacturer: Address of Manufacturer: Factory:	GZEM1810002089CR Kysho Multimedia Ltd. Flat F, 5/F Valiant Industrial Centre, 2-12 Au Pui Wan ST, Fo Tan, Shatin Kysho Multimedia Ltd. Flat F, 5/F Valiant Industrial Centre, 2-12 Au Pui Wan ST, Fo Tan, Shatin 1, Huizhou ShenKe XinFei Technology Co. Ltd 2, Dongguan Longyi Electronics Co., Ltd
Address of Factory:	1, Building C Tangxia Area, Chanjing Village Xinxu Town, Huiyang District,
	Huizhou, Guangdong Province, China 2, Jieling Industrial Zone No.8, GuanJingTou Village, Fenggang, Dongguan, 523690
Equipment Under Test (EUT	
FCC ID: SP9-00011H	
EUT Name:	Bluetooth Speaker
Model No.:	IMW899, IMW901. ¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	Altec Lansing
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2018-10-29
Date of Test:	2018-11-21 to 2019-01-18
Date of Issue:	2019-05-20
Test Result:	Pass*

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



Kobe Jian Lab 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	Chapter	Date	Modifier	Remark	
01		2019-05-20		Original	

Authorized for issue by:		
Tested By	Curry_Wu /Project Engineer	2018-11-21 to 2019-01-18
Checked By	Ridey Liu Ricky_Liu /Reviewer	2019-02-18 Date



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Test Summary 2

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz- 30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)		Pass	
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass	
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass	
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass	
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass	
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass	

N/A: Not applicable



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¤ Declaration of EUT Family Grouping:

Model No.: IMW899, IMW901

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model IMW899 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	adapter model: JT012-1802500
	input:100-240V AC 50/60Hz 1.5A
	output: DC 18V 2500mA
Test Voltage:	AC 120V
Cable:	About 1.8m x 2 wires unscreened DC mains cable
Antenna Gain	0 dBi
Antenna Type	Integral antenna
TPC Function	Not Support
Frequency range	5727MHz to 5800MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test frequencies

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5727	9	5767
2	5731	10	5771
3	5734	11	5773
4	5738	12	5774
5	5749	13	5778
6	5753	14	5789
7	5756	15	5796
8	5760	16	5800

Remark: Test frequencies are lowest channel: 5727 MHz, middle channel: 5760 MHz and highest channel: 5800 MHz



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4.4 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 ⁻⁸
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
1	AF Nadialed Fower	±4.8dB (above 1GHz)
8	Dedicted Spurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4 <i>°</i> C
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%



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4.5 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.6 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

• VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2018-03-10	2019-03-09
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2018-04-10	2019-04-10
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

26dB Emission bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01



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Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

Maximum Conducted output power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01	

Peak Power spectrum density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01	

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2018-03-10	2019-03-09
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2018-04-10	2019-04-10
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A



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MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01

Transmission in the Absence of Data						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2018-03-10	2019-03-09	
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2018-04-10	2019-04-10	
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25	
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2018-09-20	2019-09-19	
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2018-09-20	2019-09-19	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	
MI CABLE	SGS	1102098	EMC2136	2017-11-02	2019-11-01	
MI CABLE	SGS	1102098	EMC2137	2017-11-02	2019-11-01	

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Pre-amplifier (26-40GHz)	Compliance Direction Systerms Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-02
Horn Antenna (15-40GHz	Schwarzbeck	BBHA 9170	EMC2041	2017-06-16	2020-06-16



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6 **Radio Spectrum Technical Requirement**

6.1 Antenna Requirement

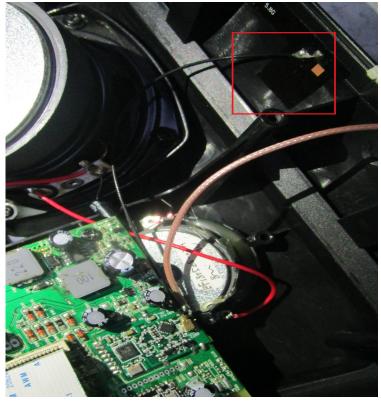
6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

Wireless chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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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 & 15.407 b(6) 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.				



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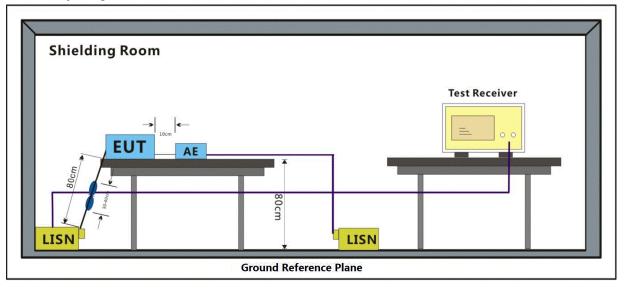


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7.1.1 E.U.T. Operation

Operating Environment:						
Temperature:	25.2 °C	Humidity:	60.1 % RH	Atmospheric Pressure:	1020	mbar
Pretest these modes to find	f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with al modulation types. Only the data of worst case is recorded in the report.					II
the worst case:				UT in charging and contir s. Only the data of worst c		ecorded
The worst case for final test:	g:Charge + TX mode (Band 3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. Only the data of worst case is recor in the report.				ecorded	

7.1.2 Test Setup Diagram





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7.1.3 Measurement Procedure and Data

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

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50 hm/50 μ H + 50 hm 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

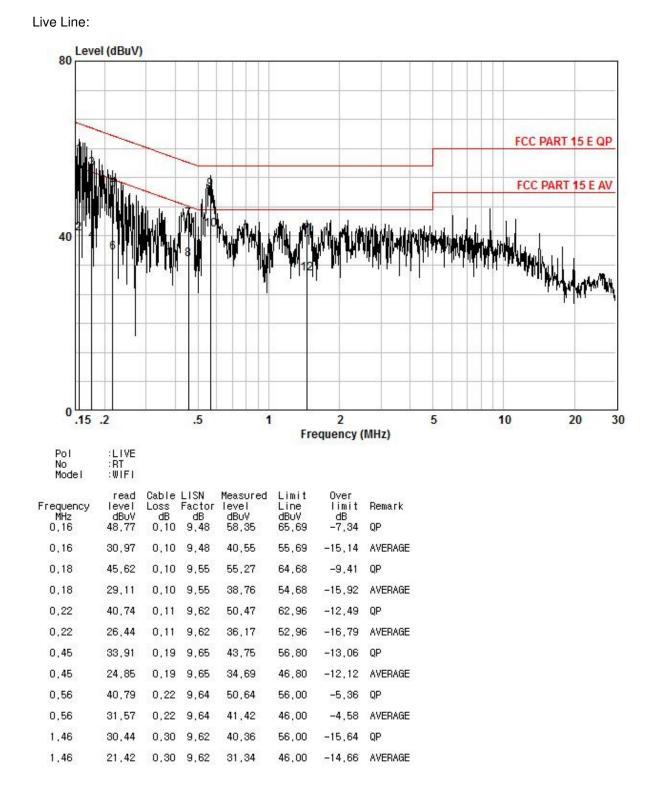


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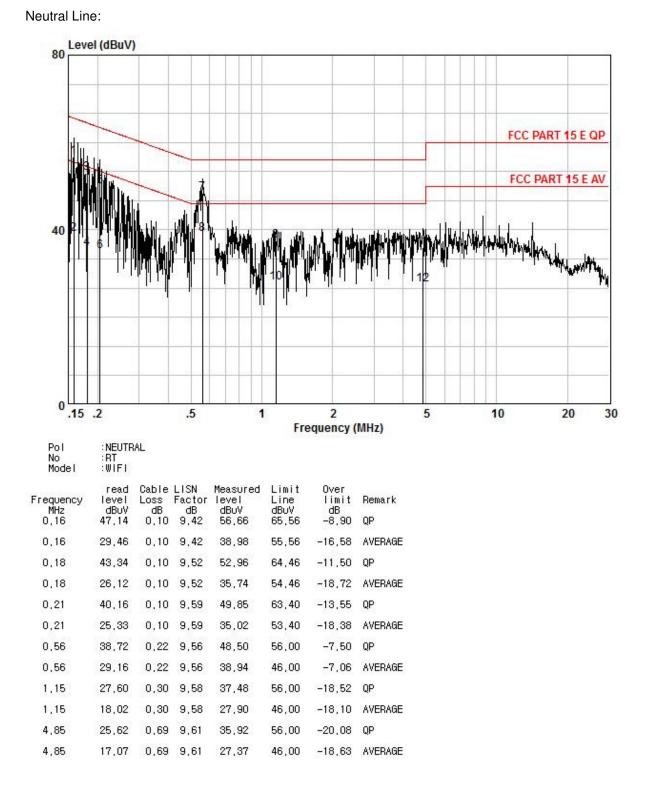


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7.2 99% Bandwidth

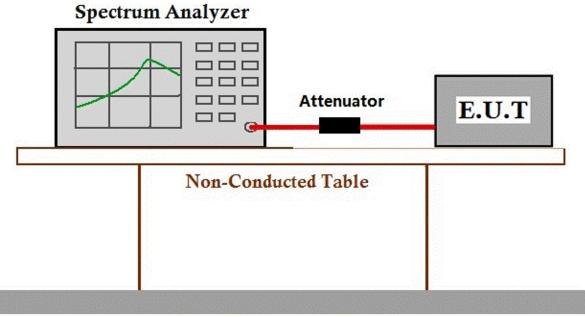
Test RequirementN/ATest Method:KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:25.3 °CHumidity:58.2 % RHAtmospheric Pressure:1020mbarTest modef:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all
modulation types. 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 15.407



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7.3 26dB Emission bandwidth

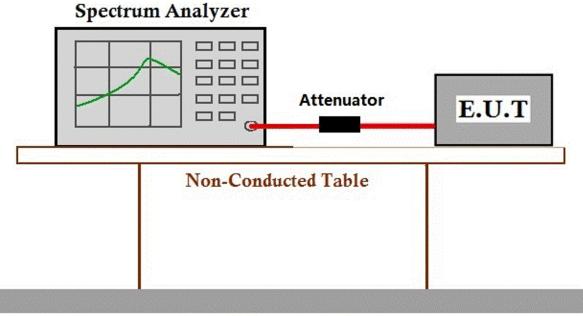
Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) **Test Method:** KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1020 mbar f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all Test mode modulation types. 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 15.407



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7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

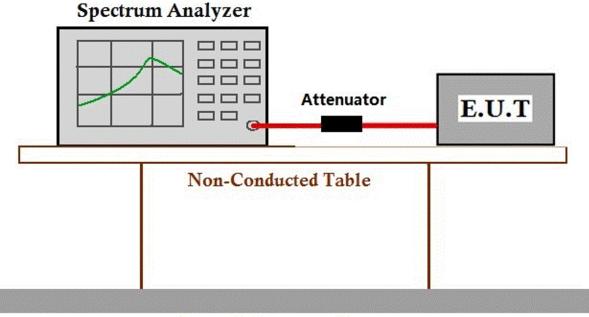
Test Requirement	47 CFR Part 15, Subpart E 15.407 (e)
Test Method:	KDB 789033 D02 II C 2
Limit:	≥500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1020 mbar Test mode f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. 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 15.407



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7.5 Maximum Conducted output power

Test Requirement	47 CFR Part 15, Subpart E 15.407 (a)
Test Method:	KDB 789033 D02 II E
Limit:	

Frequency band	d(MHz)	Limit				
		≤1W(30dBm) for master device				
5150-5250	J	≤250mW(24dBm) for client device				
5250-5350)	≤250mW(24dBm) for client device or 11dBm+10logB*				
5470-5725	5	≤250mW(24dBm) for client device or 11dBm+10logB*				
5725-5850		≤1W(30dBm)				
Remark:	* Where B is the 26dB emission bandwidth in MHz.					
	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.					



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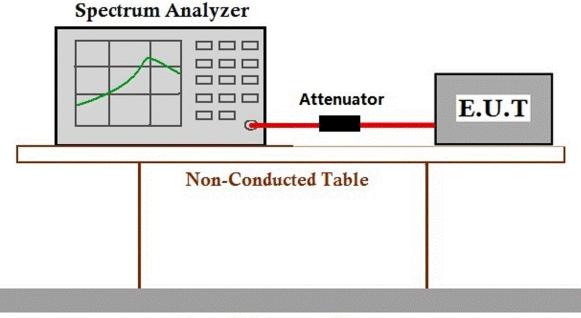


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7.5.1 E.U.T. Operation

Operating Environment:										
Temperature:	25.3 °C	Humidity:	58.3 % RH	Atmospheric Pressure: 1020	mbar					
Test mode		f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. 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 15.407



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7.6 Peak Power spectrum density

Test Requirement	47 CFR Part 15, Subpart E 15.407 (a)
Test Method:	KDB 789033 D02 II F
Limit:	

Frequency bar	nd(MHz)	Limit				
		≤17dBm in 1MHz for master device				
5150-525	0	≤11dBm in 1MHz for client device				
5250-535	50	≤11dBm in 1MHz for client device				
5470-572	25	≤11dBm in 1MHz for client device				
5725-5850		≤30dBm in 500 kHz				
Remark:		The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.				
	The limit	will be calculated in different RBW.				



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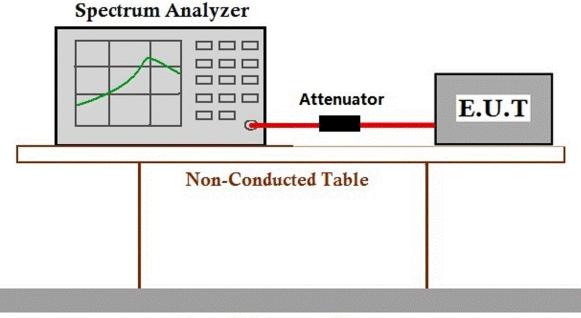


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7.6.1 E.U.T. Operation

Operating Environment:										
Temperature:	25.3 °C	Humidity:	58.2 % RH	Atmospheric Pressure: 1020) mbar					
Test mode		f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. 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 15.407



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7.7 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Measurement Distance:	3m

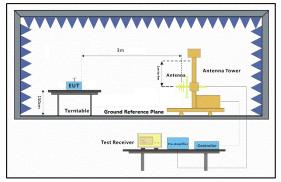
7.7.1 E.U.T. Operation

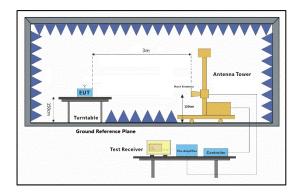
Operating Environment:

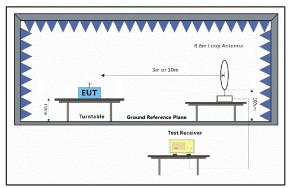
Temperature:	23.5 °C	Humidity:	67.1 % RH	Atmospheric Pressure:	1020	mbar
Pretest these modes to find the worst case:	modulation g:Charge +	types. Only the TX mode (Bag mode with a	ne data of worst and 3)_Keep the	ntinuously transmitting moc case is recorded in the rep EUT in charging and contin bes. Only the data of worst o	ort. nuously	
The worst case	•		p the EUT in co	ntinuously transmitting mod	le with a	II

modulation types. Only the data of worst case is recorded in the report. for final test:

7.7.2 Test Setup Diagram









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7.7.3 Measurement Procedure and Data

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

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

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

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

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

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

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

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 40GHz, 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. As shown in this section, 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.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



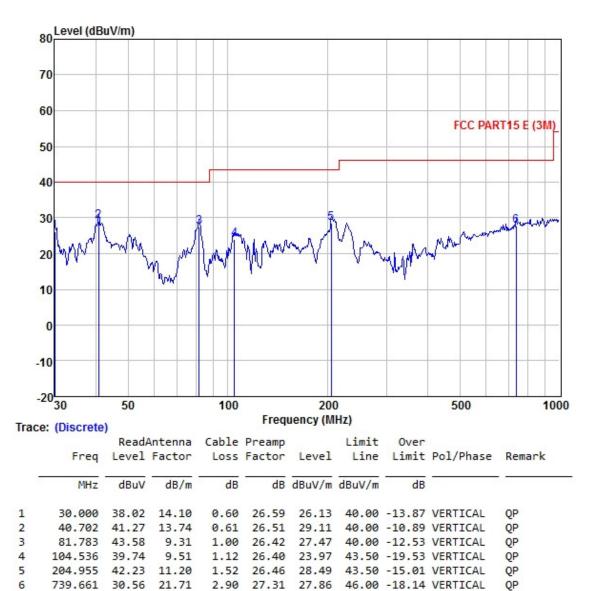
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Below 1GHz: Low channel; Vertical





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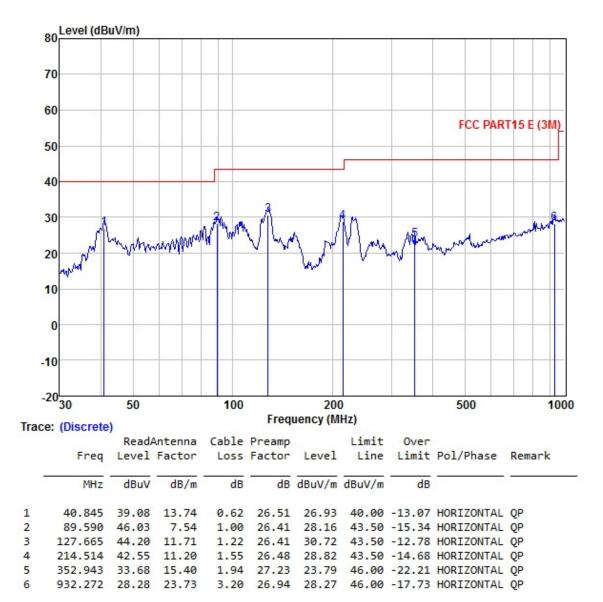
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Low channel;Horizontal



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1GHz-18GHz Low channel; Horizontal with peak detector.

Freq				Preamp Factor				Pol/Phase
MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
								HORIZONTAL HORIZONTAL

Low channel; Vertical with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	11454.00	40.08	39.15	10.09	37.18	52.14	74.00	-21.86	VERTICAL
2	17181.82	36.07	42.11	17.32	35.80	59.70	68.20	-8.50	VERTICAL



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Middle channel; Horizontal with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	-
1	11520.48	39.12	39.12	10.16	37.18	51.22	74.00	-22.78	HORIZONTAL
2	17280.29	34.06	42.29	17.09	35.76	57.68	68.20	-10.52	HORIZONTAL

Middle channel; Vertical with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	11520.48	41.11	39.12	10.16	37.18	53.21	74.00	-20.79	VERTICAL
2	17280.73	34.24	42.29	17.09	35.76	57.86	68.20	-10.34	VERTICAL



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High channel; Horizontal with peak detector.

	Freq		Anterna Factor						Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	-
1	11600.35	40.59	39.17	10.24	37.19	52.81	74.00	-21.19	HORIZONTAL
2	17400.64	34.70	42.46	16.18	35.73	57.61	68.20	-10.59	HORIZONTAL

High channel; Vertical with peak detector.

	Freq		Anterna Factor						Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	-
1	11600.35	41.06	39.17	10.24	37.19	53.28	74.00	-20.72	VERTICAL
2	17400.68	34.10	42.46	16.18	35.73	57.01	68.20	-11.19	VERTICAL



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Above 18GHz Low channel; horizontal with peak detector.

	Freq		nterna Factor						Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	-
1 2									HORIZONTAL HORIZONTAL

Low channel; Vertical with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	19147.88	43.41	38.00	8.07	35.60	53.88	74.00	-20.12	VERTICAL
2	22908.57	40.21	39.52	9.44	35.70	53.47	74.00	-20.53	VERTICAL



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Middle channel; Horizontal with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	20028.38	42.46	38.00	8.21	35.59	53.08	74.00	-20.92	HORIZONTAL
2	23040.89	39.57	39.60	9.54	35.74	52.97	74.00	-21.03	HORIZONTAL

Middle channel; Vertical with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	18802.33	42.72	37.99	7.93	35.60	53.04	74.00	-20.96	VERTICAL
2	23040.04	39.70	39.60	9.54	35.74	53.10	74.00	-20.90	VERTICAL



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High channel; Horizontal with peak detector.

	Freq				Preamp Factor				Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	-
1	19017.56	42.29	38.00	8.02	35.60	52.71	74.00	-21.29	HORIZONTAL
2	23200.87	42.54	39.60	9.70	35.82	56.02	68.20	-12.18	HORIZONTAL

High channel; Vertical with peak detector.

	Freq		Anterna Factor						Pol/Phase
	MHz	dBm	dB/m	dB	dB	dBm	dBm	dB	
1	19812.98	42.55	38.00	8.18	35.60	53.13	74.00	-20.87	VERTICAL
2	23200.35	42.29	39.60	9.70	35.82	55.77	68.20	-12.43	VERTICAL

The emission above 1Ghz up to 18Ghz, only peak value was record in the report due to the Peak emission level was lower than average limit.



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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Measurement Distance:	3m
Limit:	

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

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



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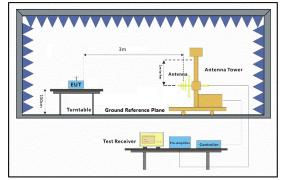
7.8.1 E.U.T. Operation

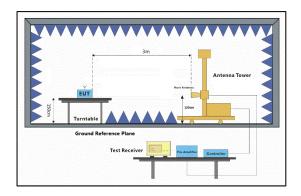
Operating Environment:

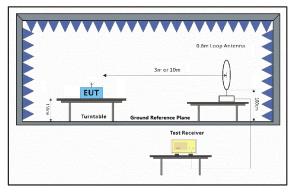
Temperature:	23.5 °C	Humidity:	67.2 % RH	Atmospheric Pressure:	1020	mbar
Pretest these modes to find the worst case:	modulation t g:Charge +	types. Only the TX mode (Bar mode with a	ne data of worst ca and 3)_Keep the E	inuously transmitting moc ase is recorded in the rep UT in charging and contin s. Only the data of worst o	ort. nuously	

f:TX mode (Band 3) Keep the EUT in continuously transmitting mode with all The worst case for final test: modulation types. Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram









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7.8.3 Measurement Procedure and Data

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

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

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

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

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

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

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

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

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

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

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



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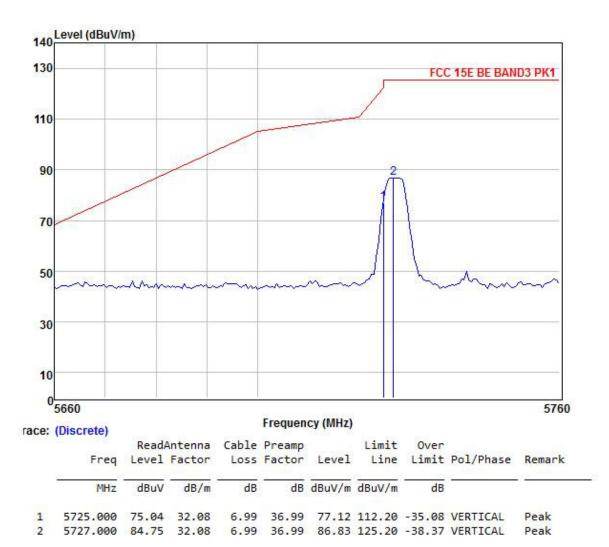
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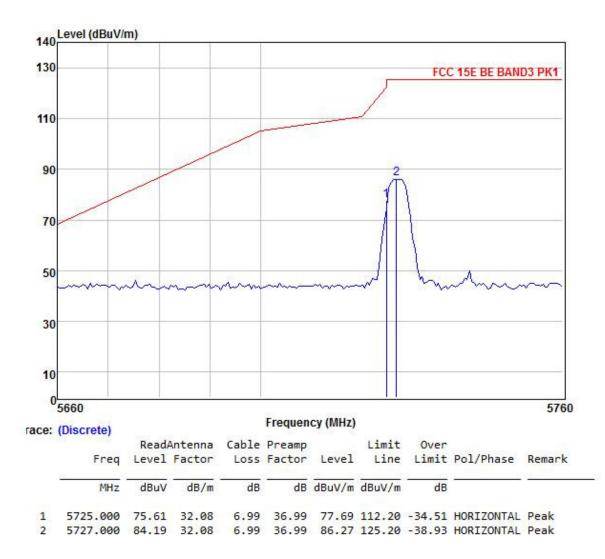


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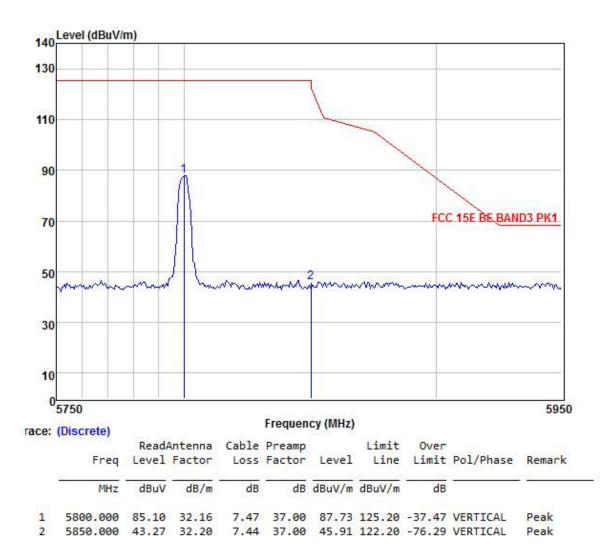
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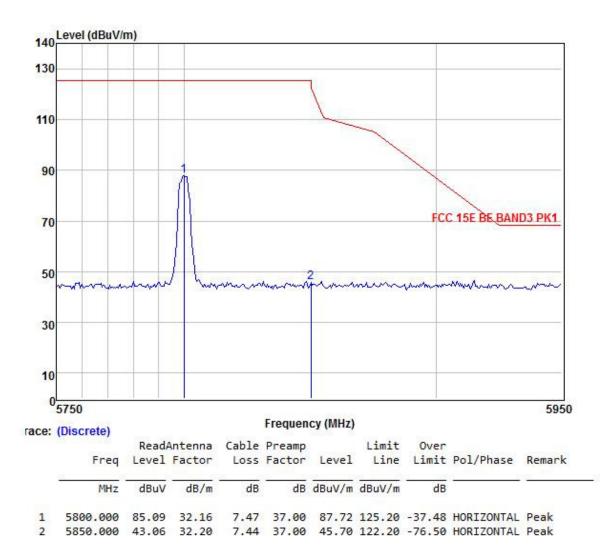


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7.9 Frequency Stability

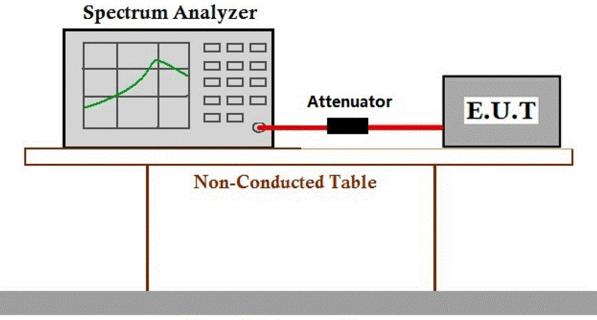
Test Requirement	47 CFR Part 15, Subpart E 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.9.1 E.U.T. Operation

Operating Environment:

25.3 °C Atmospheric Pressure: 1020 Temperature: Humidity: 58.2 % RH mbar Test mode f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. 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 15.407



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Appendix 8

8.1 Appendix 15.407

1. 6dB Emission Bandwidth & 99% Occupied Bandwidth Measurement

Test Channel	Ant	OBW[MHz]	EBW[MHz]	Limit[MHz]	Verdict
5727	Ant1	3.215	1.758	>=0.5	PASS
5760	Ant1	3.269	1.734	>=0.5	PASS
5800	Ant1	3.317	1.844	>=0.5	PASS



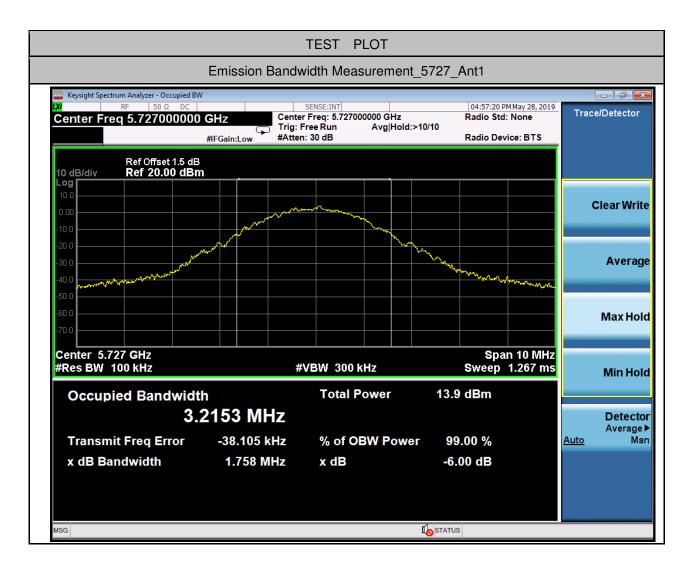
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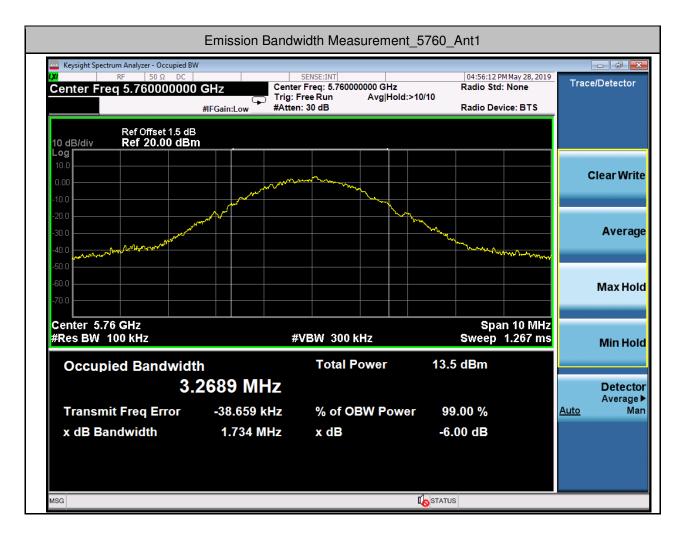


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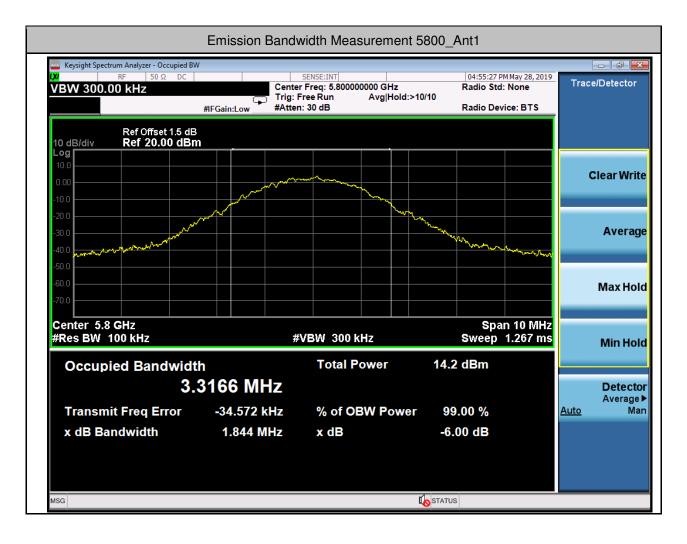


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2. 26dB Bandwidth Measurement

Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
5727	Ant1	4.629		PASS
5760	Ant1	4.609		PASS
5800	Ant1	4.704		PASS



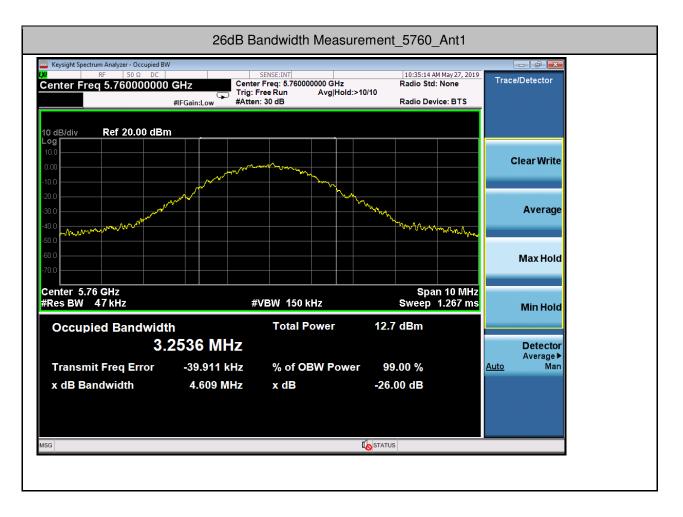


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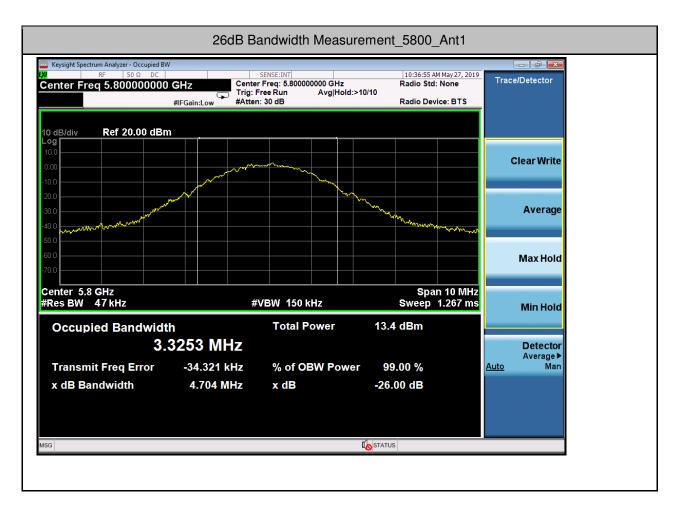


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3. Maximum Conduct Output Power

Test Channel	Ant	Power [dBm]	Limit [dBm]	Verdict
5727	Ant1	-0.01	<30.00	PASS
5760	Ant1	-0.09	<30.00	PASS
5800	Ant1	-0.51	<30.00	PASS



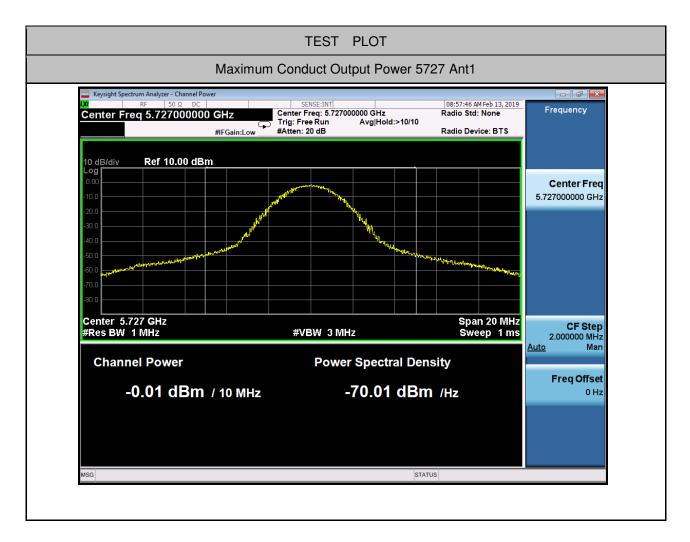
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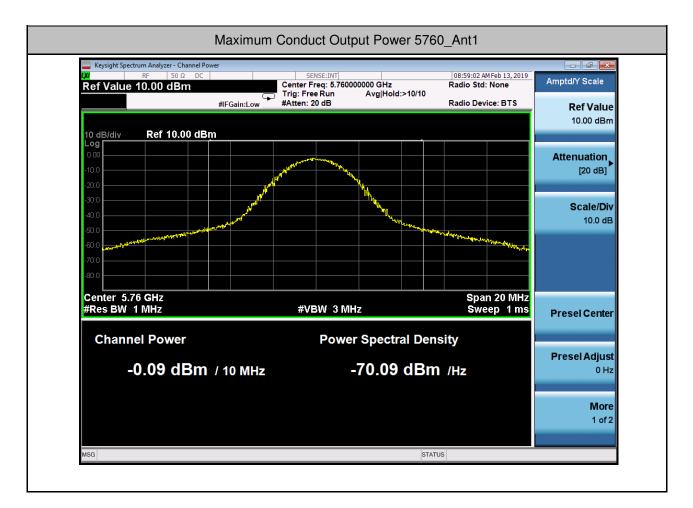


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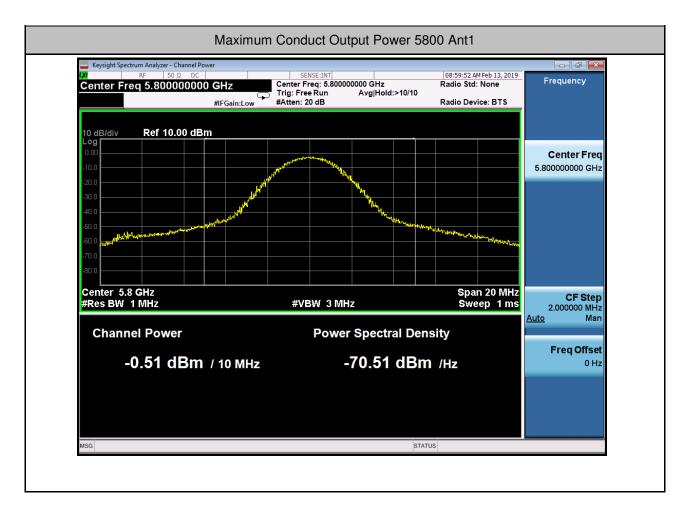


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4. Maximum Power Spectral Density

Test Channel	Ant	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
5727	Ant1	-1.450	<26.98	PASS
5760	Ant1	-1.816	<26.98	PASS
5800	Ant1	-1.866	<26.98	PASS



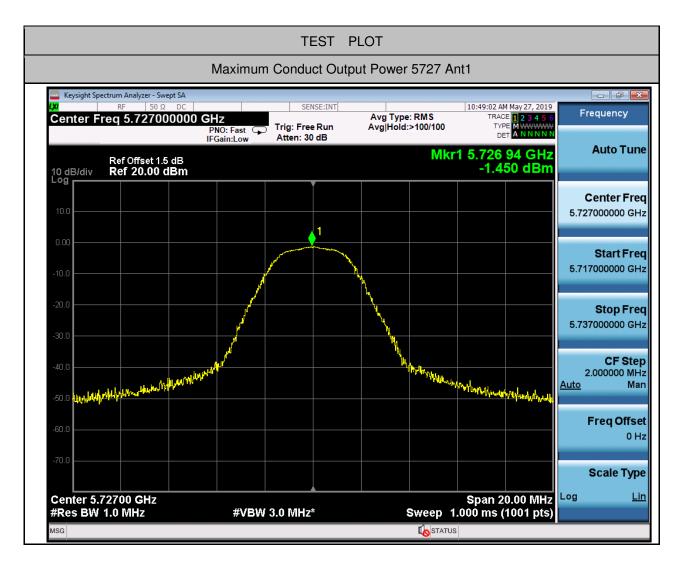
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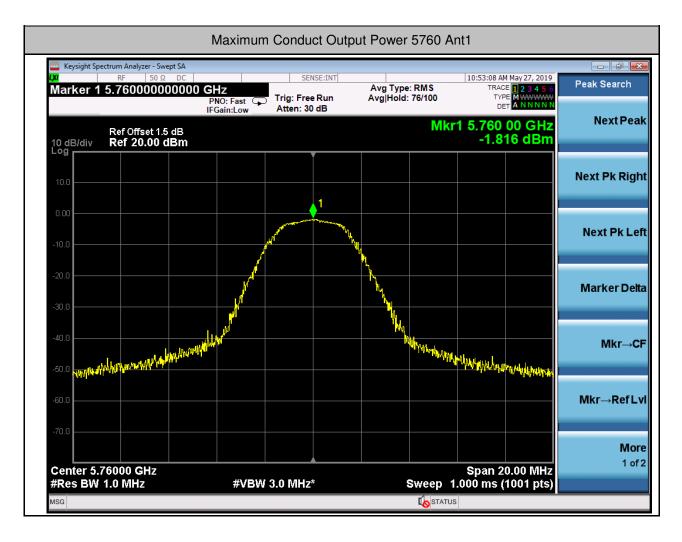


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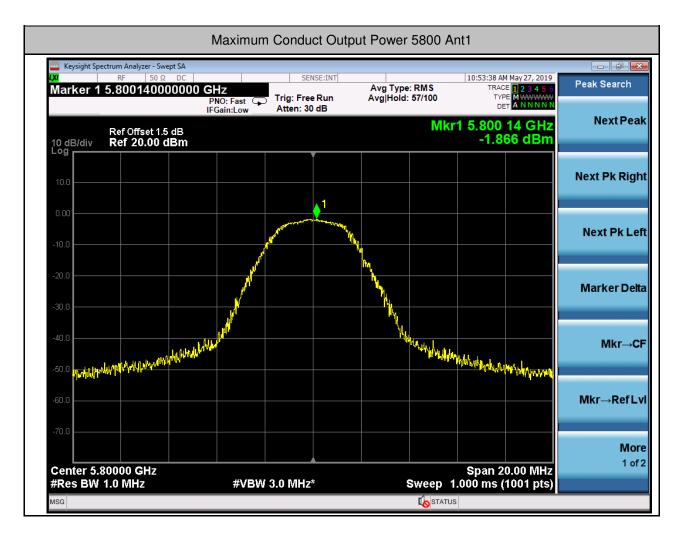
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5.RF Frequency Stability

Test mode:	TX	Freque	ency(MHz):	5727		
Temperature (°	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(kH	z)		
35	120	5727.7556	-0.7556	Pass		
25		5727.7631	-0.7631	Pass		
15		5727.7624	-0.7624	Pass		
5		5727.7662	-0.7662	Pass		
0		5727.7542	-0.7542	Pass		
20	138	5727.7570	-0.7570	Pass		
	120	5727.7606	-0.7606	Pass		
	102	5727.7618	-0.7618	Pass		



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Test mode: TX		Freque	ncy(MHz):	5760	
Temperature (°	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(kHz)	Result	
35	120	5760.5264	-0.5264	Pass	
25		5760.5264	-0.5264	Pass	
15		5760.5264	-0.5264	Pass	
5		5760.5251	-0.5251	Pass	
0		5760.5240	-0.5240	Pass	
20	138	5760.5257	-0.5257	Pass	
	120	5760.5266	-0.5266	Pass	
	102	5760.5273	-0.5273	Pass	

Test mode:	ТХ	Frequency(MHz):	5800	
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Temperature (°	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(kHz)	Result
35	120	5800.8074	-0.8074	Pass
25		5800.8087	-0.8087	Pass
15		5800.8089	-0.8089	Pass
5		5800.8086	-0.8086	Pass
0		5800.8073	-0.8073	Pass
20	138	5800.8077	-0.8077	Pass
	120	5800.8090	-0.8090	Pass
	102	5800.8082	-0.8082	Pass

--End of Report-



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