

TEST REPORT

FCC ID: 2AB7K-Z6010

Product: Zolo Mojo

Model No.: Z6010

Additional Model No.: N/A

Trade Mark: ZOLO

Report No.: TCT171025E002

Issued Date: Oct. 26, 2017

Issued for:

Anker Technology Co., Limited
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon,
Hong Kong

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,
Shenzhen, Guangdong, China

TEL: +86-755-27673339

FAX: +86-755-27673332

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1. Test Certification

Product:	Zolo Mojo
Model No.:	Z6010
Additional Model No.:	N/A (S) (S)
Trade Mark:	ZOLO
Applicant:	Anker Technology Co., Limited
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer:	TCL Technoly Electronics(Huizhou) Co., Ltd.
Address:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China.
Date of Test:	Sept. 21, 2017 - Oct. 15, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2017 KDB789033 D02 General U-NII Test Procedures New Rules v01r04

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Jin Wang

Reviewed By:

Date: Oct. 15, 2017

Date: Oct. 26, 2017

Approved By:

Tomsin



2. Test Result Summary

	X y	
Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a) §2.1046	PASS
6dB Emission Bandwidth	§15.407(a) §2.1049	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a) §2.1049	PASS
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(a)	PASS
Radiated Emission	§15.407(a) §2.1053	PASS
Frequency Stability	§15.407(g) §2.1055	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product:	Zolo Mojo
Model No.:	Z6010
Additional Model No.:	N/A
Trade Mark:	ZOLO
Operation Frequency:	Band I: 5180MHz-5240MHz; 5190MHz-5230MHz. Band IV: 5745MHz-5825MHz; 5755MHz-5795MHz.
Channel Bandwidth:	802.11a/n(HT20): 20MHz 802.11n(HT40): 40MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.61dBi
Power Supply:	AC 120V/60Hz
Adapter:	Adapter Information: Model: Z60-A00 Input: 100-240Va.c., 50-60Hz, 0.45A Output: 9.0Vd.c., 1.5A



Operation Frequency each of channel

20)MHz	40MHz		
Channel	Frequency	Channel	Frequency	
36	5180	38	5190	
40	5200	46	5230	
44	5220	151	5755	
48	5240	159	5790	
149	5745)	(YO.)	
153	5765			
157	5785			
161	5805			
165	5825	100		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n (HT20)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)			
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)	
36	Low	5180	149	Low	5745	
40	Mid	5200	157	Mid	5785	
48	High	5240	165	High	5825	

For 802.11n (HT40)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795



4. Genera Information

4.1. Test environment and mode

25.0 °C
56 % RH
1010 mbar
Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	
802.11a	6 Mbps	
802.11n(HT20)	MCS0	
802.11n(HT40)	MCS0	

Final	Test	N	lod	e.
ıııaı	I COL	W		ıc.

Operation mode:	Keep the EUT in continuous transmitting		
	with modulation		

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4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	1	1	/

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

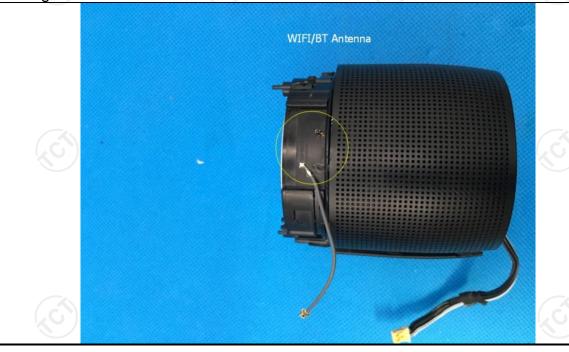
Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 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.

E.U.T Antenna:

The WIFI antenna is an internal antenna which permanently attached, and the best case gain of the antenna is 3.61dBi.







6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (d	dBuV)			
	(MHz)	Quasi-peak	Áverage			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Reference Plane					
Test Setup:	Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Notes Test table height=0.8m	EMI Receiver	— AC power			
Test Mode:	Tx Mode					
Test Procedure:	power through a lin (L.I.S.N.). This primpedance for the norm 2. The peripheral device power through a Loupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interfere emission, the relative the interface cable.	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. 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: 2013 on conducted measurement. 				
Test Result:	PASS					



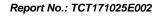
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Manufacturer Model Serial Numb		Calibration Due			
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018			
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018			
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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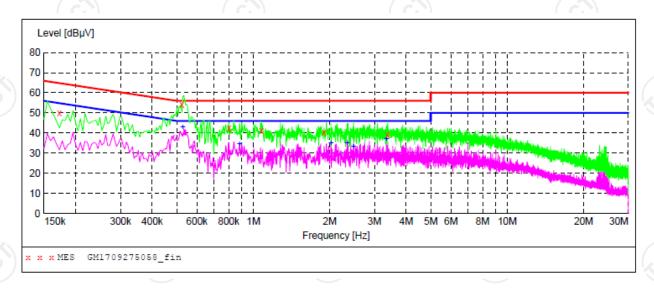




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

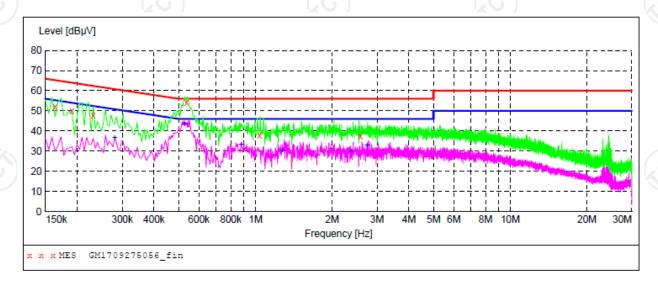


Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500 0.523500 0.802500 1.077000 1.900500 3.381000	49.90 54.10 42.30 41.10 40.30 39.10	10.4 10.2 10.2 10.2 10.2 10.3	65 56 56 56 56	14.9 1.9 13.7 14.9 15.7 16.9	QP QP QP QP QP	L1 L1 L1 L1 L1	GND GND GND GND GND GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.528000 0.883500 2.022000 2.341500 2.485500 3.345000	43.30 34.50 34.90 35.00 33.40 36.90	10.2 10.1 10.2 10.2 10.2 10.3	46 46 46 46 46	2.7 11.5 11.1 11.0 12.6 9.1	AV AV AV AV AV	L1 L1 L1 L1 L1	GND GND GND GND GND GND





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.163500	52.00	10.4	65	13.3	QP	N	GND
0.190500	50.00	10.3	64	14.0	QP	N	GND
0.231000	47.70	10.3	62	14.7	QP	N	GND
0.537000	54.00	10.2	56	2.0	QP	N	GND
1.036500	37.80	10.2	56	18.2	QP	N	GND
2.584500	37.30	10.2	56	18.7	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.280500	36.40	10.2	51	14.4	AV	N	GND
0.528000	44.30	10.2	46	1.7	AV	N	GND
0.879000	33.20	10.1	46	12.8	AV	N	GND
1.275000	30.50	10.2	46	15.5	AV	N	GND
2.377500	30.00	10.2	46	16.0	AV	N	GND
2.742000	33.00	10.2	46	13.0	AV	N	GND

Remark:

Transd = Cable lose+ PULSE LIMITER factor + ARTIFICIAL MAINS factor; Margin= Limit - Level



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6.3. Maximum Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046			
Test Method:	KDB789033 D02 Ge Rules v01r04 Section	neral UNII Test Procedures New n E		
	Frequency Band (MHz)	Limit		
Limit:	5150-5250	250mW for client devices		
	5725-5850	1 W		
Test Setup:	Power meter FUT			
Test Mode:	Transmitting mode w	vith modulation		
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section E, 3, a The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 			
Test Result:	PASS			
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power			



6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer Model Serial Number		Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
Power Meter	Agilent	N1911A	MY45101557	Sep. 27, 2018			
Power Sensor	Agilent	N1922A	MY44124432	Sep. 27, 2018			
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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6.3.3. Test Data

Configuration Band I (5150 - 5250 MHz)							
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result			
11a	CH36	17.06	24	PASS			
11a	CH40	17.30	24	PASS			
11a	CH48	17.46	24	PASS			
11n(HT20)	CH36	16.20	24	PASS			
11n(HT20)	CH40	16.27	24	PASS			
11n(HT20)	CH48	16.69	24	PASS			
11n(HT40)	CH38	16.05	24	PASS			
11n(HT40)	CH46	16.45	24	PASS			

Configuration Band IV (5725 - 5850 MHz)							
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result			
11a	CH149	17.72	30	PASS			
11a	CH157	17.96	30	PASS			
11a	CH165	16.97	30	PASS			
11n (HT20)	CH149	15.38	30	PASS			
11n (HT20)	CH157	15.76	30	PASS			
11n (HT20)	CH165	14.51	30	PASS			
11n (HT40)	CH151	12.43	30	PASS			
11n (HT40)	CH159	12.38	30	PASS			



6.4. 6dB Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049					
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 					
Test Result:	PASS					

6.4.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018		
RF Cable (9KHz-40GHz)	тст	RE-03	N/A	Sep. 27, 2018		
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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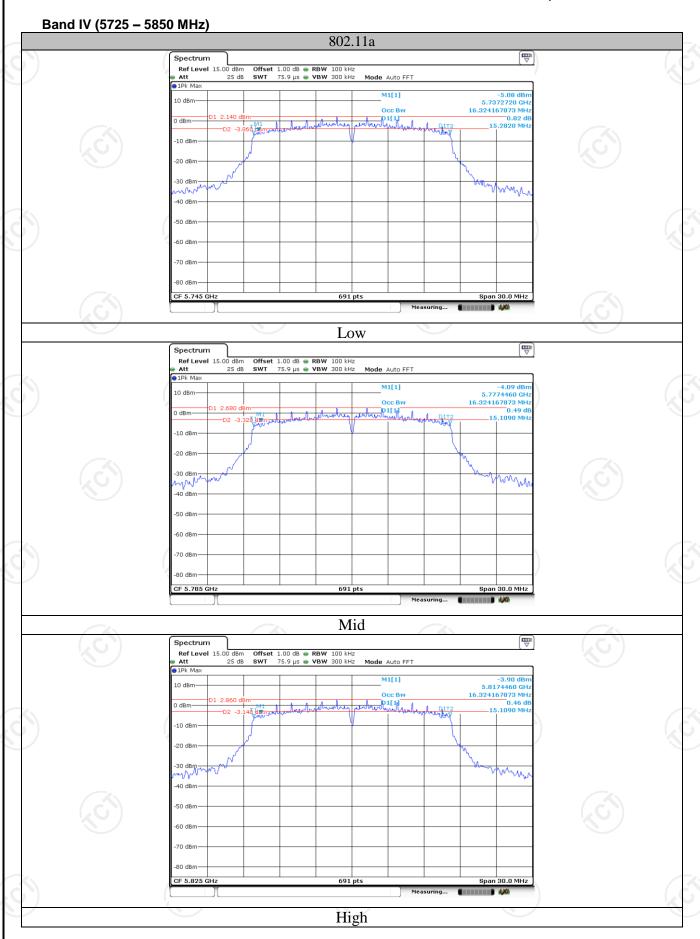
6.4.3. Test data

Band IV (5725	Band IV (5725 - 5850 MHz)							
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result			
11a	CH149	5745	15.28	0.5	PASS			
11a	CH157	5785	15.11	0.5	PASS			
11a	CH161	5825	15.11	0.5	PASS			
11n(HT20)	CH149	5745	15.11	0.5	PASS			
11n(HT20)	CH157	5785	15.76	0.5	PASS			
11n(HT20)	CH161	5825	15.41	0.5	PASS			
11n(HT40)	CH151	5755	35.17	0.5	PASS			
11n(HT40)	CH159	5795	35.25	0.5	PASS			

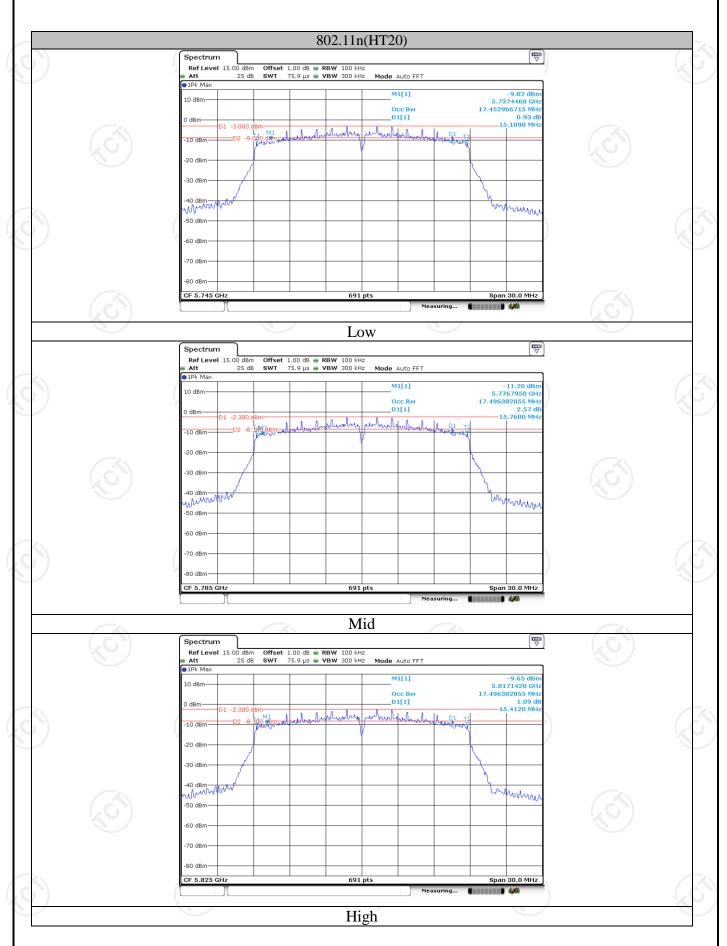
Test plots as follows:





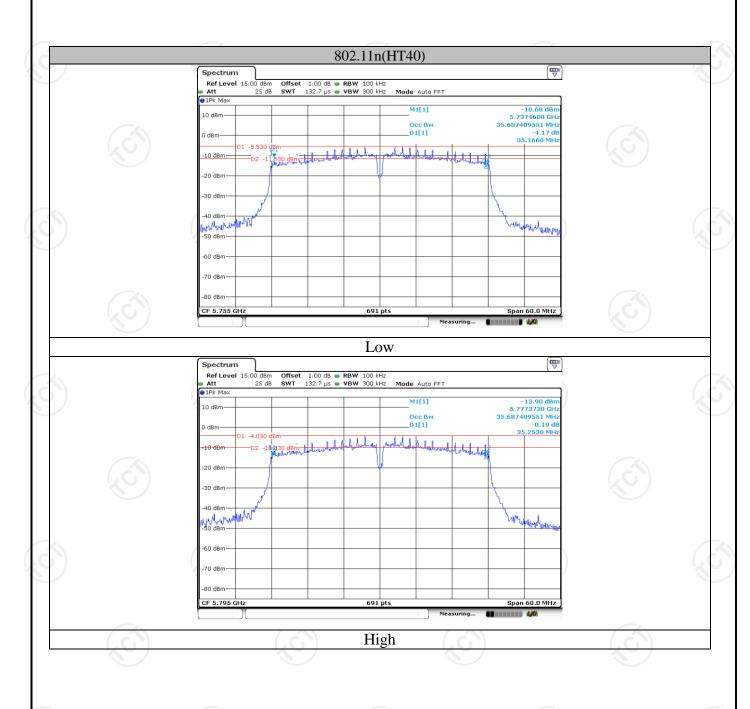














6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049		
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section D		
Limit:	No restriction limits		
Test Setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section D Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. Measure and record the results in the test report. 		
Test Result:	PASS		

6.5.2. Test Instruments

RF Test Room				
Equipment Manufacturer Model Serial Number		Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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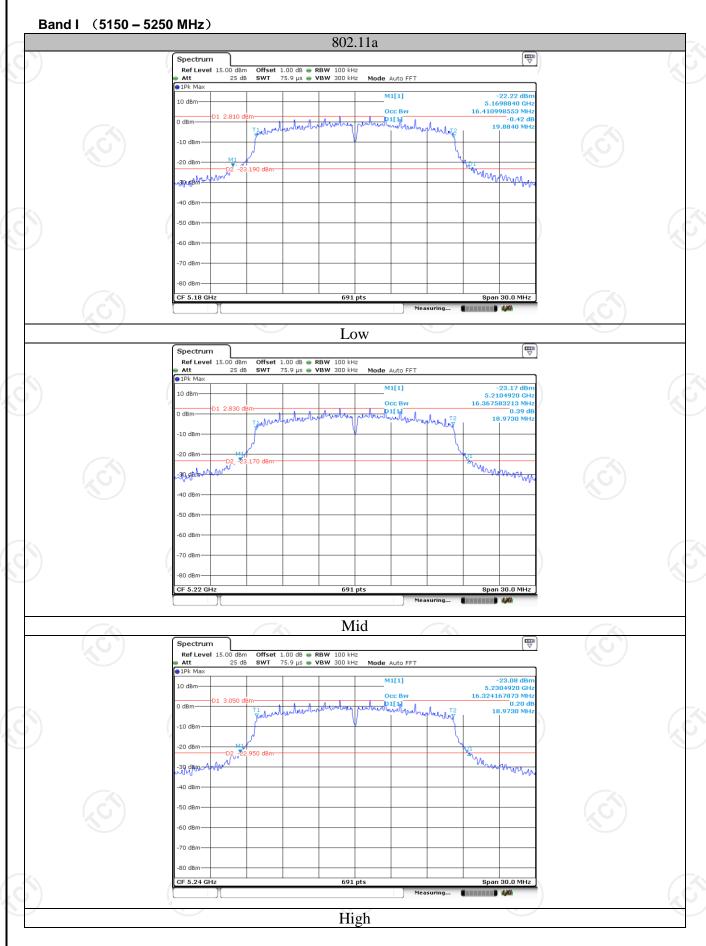
6.5.3. Test data

Band I

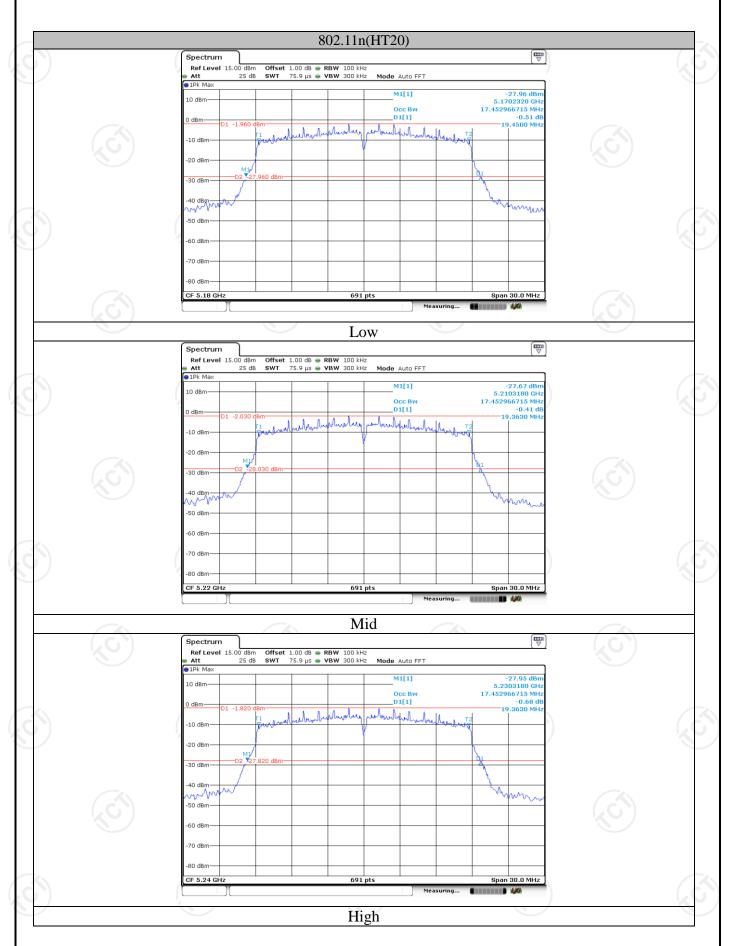
Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	19.88	16.41
11a	CH40	5200	18.97	16.37
11a	CH48	5240	18.97	16.32
11n(HT20)	CH36	5180	19.45	17.45
11n(HT20)	CH40	5200	19.36	17.45
11n(HT20)	CH48	5240	19.36	17.45
11n(HT40)	CH38	5190	38.12	35.69
11n(HT40)	CH46	5230	38.03	35.77

Test plots as follows:



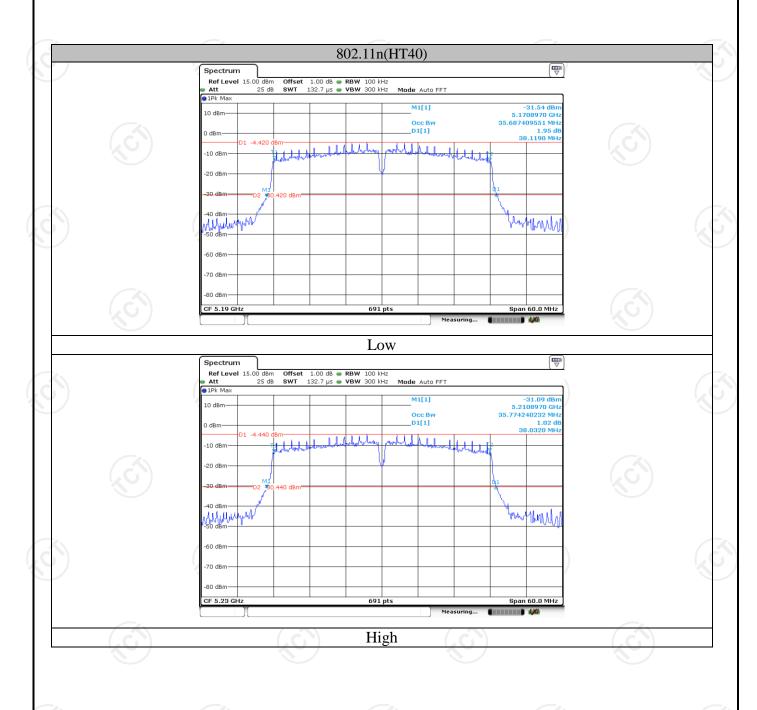














6.6. Power Spectral Density

6.6.1. Test Specification

FCC Part15 E Section 15.407 (a)			
KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section F			
≤11.00dBm/MHz for Band I 5150MHz-5250MHz ≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz The e.i,r,p spectral density for Band I 5150MHz – 5250 MHz should not exceed 10dBm/MHz			
Spectrum Analyzer EUT			
Transmitting mode with modulation			
1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.			
PASS			

6.6.2. Test Instruments

RF Test Room				
Equipment Manufacturer Model		Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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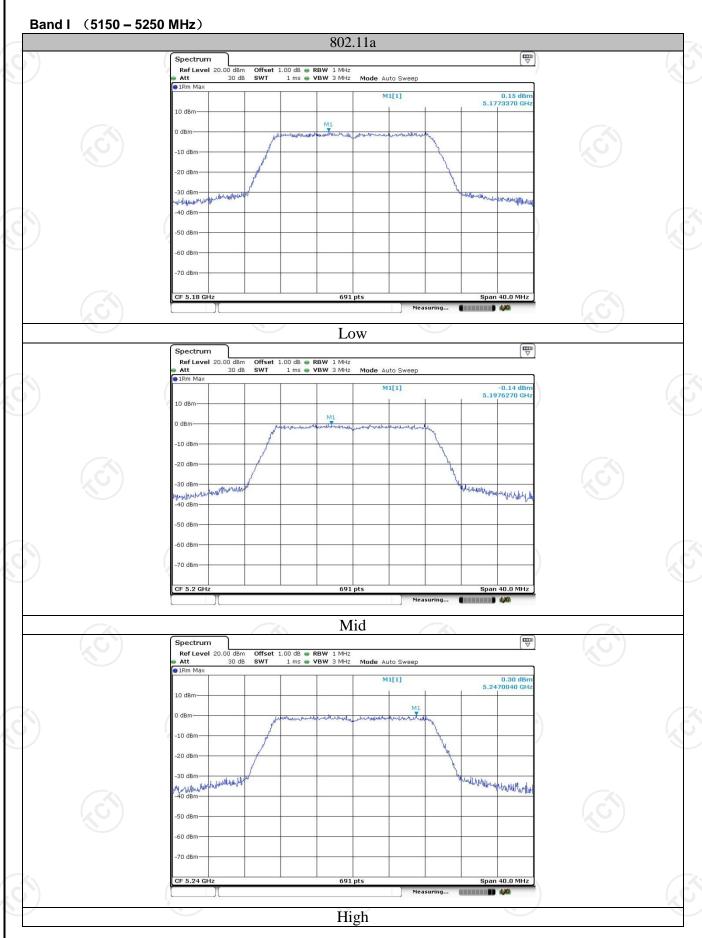
6.6.3. Test data

Configuration Band I (5150 - 5250 MHz)				
Mode	Test channel	Power Spectral Density	Limit (dBm/MHz)	Result
11a	CH36	0.15	11	PASS
11a	CH40	-0.14	11	PASS
11a	CH48	0.30	11	PASS
11n(HT20)	CH36	0.98	11	PASS
11n(HT20)	CH40	0.94	11	PASS
11n(HT20)	CH48	1.40	11	PASS
11n(HT40)	CH38	-2.44	11	PASS
11n(HT40)	CH46	-1.60	11	PASS

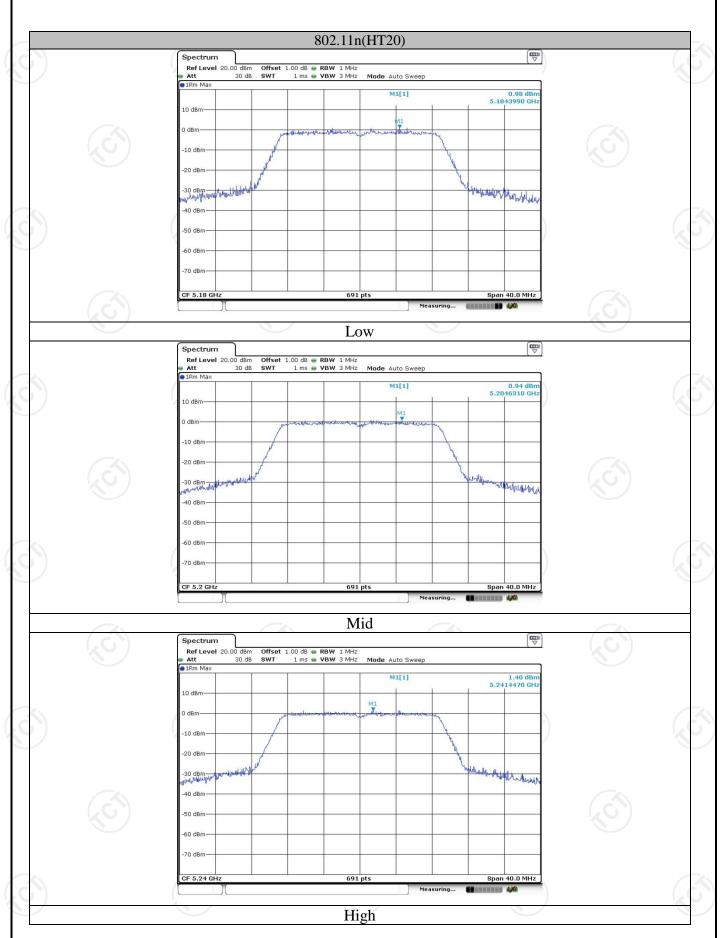
Configuration Band IV (5725 - 5850 MHz)				
Mode	Test channel	Power Spectral Density	Limit (dBm/500kHz)	Result
11a	CH149	-0.20	30	PASS
11a	CH157	-1.07	30	PASS
11a	CH161	-1.48	30	PASS
11n(HT20)	CH149	-1.18	30	PASS
11n(HT20)	CH157	-1.76	30	PASS
11n(HT20)	CH161	-2.62	30	PASS
11n(HT40)	CH151	-3.39	30	PASS
11n(HT40)	CH159	-4.69	30	PASS

Test plots as follows:

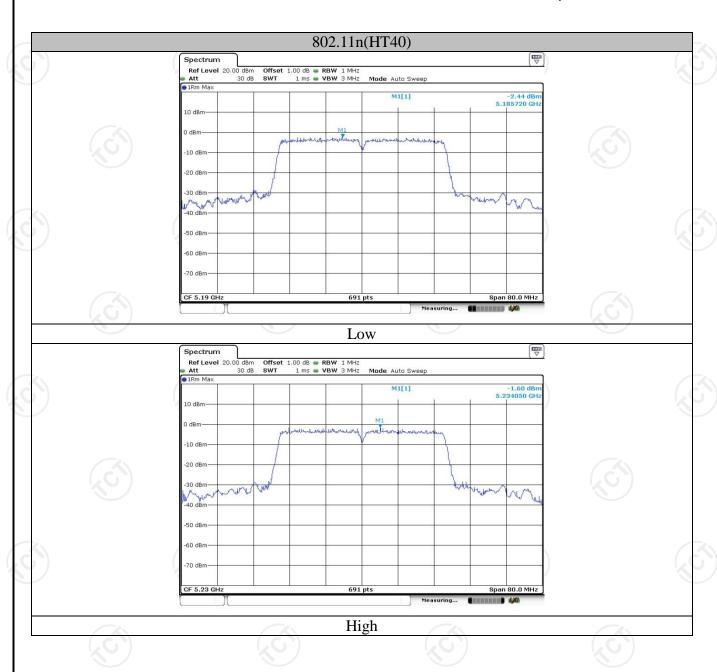




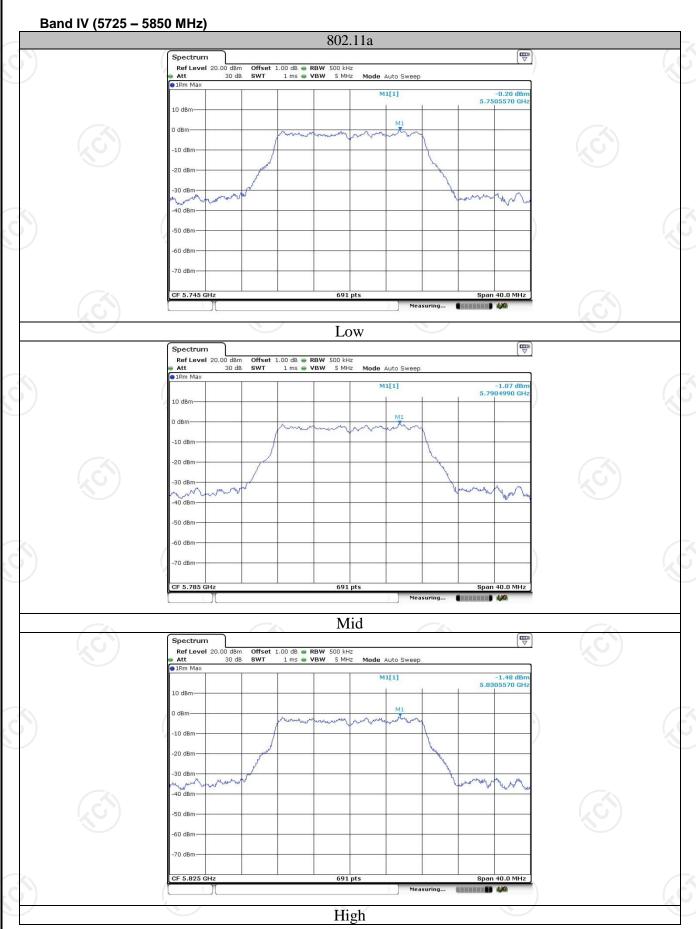




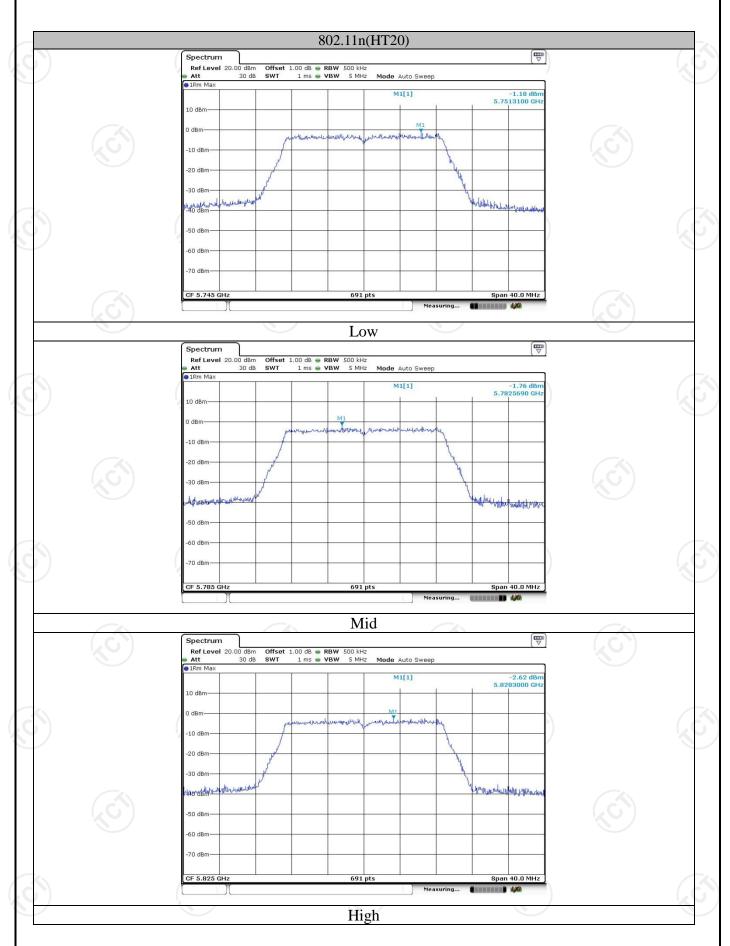




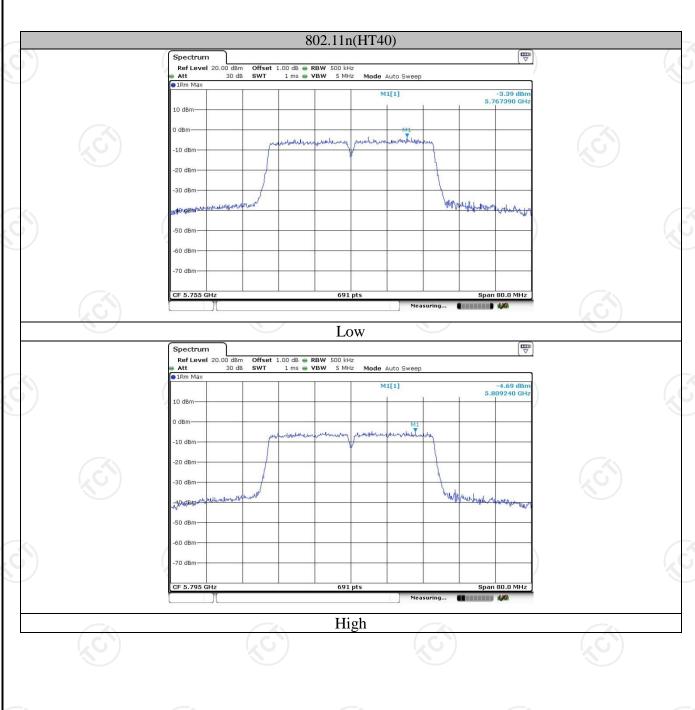














6.7. Band edge

6.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407		
Test Method:	ANSI C63.10 2013		
	For band I&II&III: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2$ $dB\mu V/m$, for $EIRP(dBm) = -27dBm$		
Limit:	For band IV(5715-5725MHz&5850-5860MHz): $E[dB\mu V/m] = EIRP[dBm] + 95.2=78.2 dB\mu V/m$, for $EIRP(dBm) = -17dBm$; For band IV(other un-restricted band): $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2 dB\mu V/m$, for $EIRP(dBm) = -27dBm$		
Test Setup:	Ground Reference Place Test Receiver Controller		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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		



	quasipe reporte	nargin would eak or avera d in a data s	ige method	d one by or as specified	ne using peal I and then	k,
Test Result:	PASS					

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





6.7.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSP40	100056	Sep. 27, 2018
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Coax cable (9KHz-1GHz)	ТСТ	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

					Band e	dge emissio	n			
	Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector
	5150.00	15.98	31.56	9.79	0.00	57.33	68.20	-10.87	Horizontal	Peak
	5150.00	15.87	31.56	9.79	0.00	57.22	68.20	-10.98	Vertical	Peak
	5150.00	5.24	31.56	9.79	0.00	46.59	54.00	-7.41	Horizontal	Average
	5150.00	5.36	31.56	9.79	0.00	46.71	54.00	-7.29	Vertical	Average
1 - 1	5350.00	16.04	32.04	10.06	0.00	58.14	68.20	-10.06	Horizontal	Peak
	5350.00	15.67	32.04	10.06	0.00	57.77	68.20	-10.43	Vertical	Peak
	5350.00	5.34	32.04	10.06	0.00	47.44	54.00	-6.56	Horizontal	Average
	5350.00	5.24	32.04	10.06	0.00	47.34	54.00	-6.66	Vertical	Average
	(20			(¿c			(c)		(¿C)	

Band edge emission											
Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector			
16.01	32.29	10.17	0.00	58.47	68.20	-9.73	Horizontal	Peak			
16.29	32.29	10.17	0.00	58.75	68.20	-9.45	Vertical	Peak			
1.22	32.29	10.17	0.00	43.68	54.00	-10.32	Horizontal	Average			
1.35	32.29	10.17	0.00	43.81	54.00	-10.19	Vertical	Average			
15.68	36.00	11.91	0.00	63.59	68.20	-4.61	Horizontal	Peak			
16.31	36.00	11.91	0.00	64.22	68.20	-3.98	Vertical	Peak			
1.35	36.00	11.91	0.00	49.26	54.00	-4.74	Horizontal	Average			
1.11	36.00	11.91	0.00	49.02	54.00	-4.98	Vertical	Average			
	Level (dBuV) 16.01 16.29 1.22 1.35 15.68 16.31 1.35	Level (dBuV) (dB) 16.01 32.29 16.29 32.29 1.22 32.29 1.35 32.29 15.68 36.00 16.31 36.00 1.35 36.00	Level (dBuV) Factor (dB) Loss (dB) 16.01 32.29 10.17 16.29 32.29 10.17 1.35 32.29 10.17 15.68 36.00 11.91 1.35 36.00 11.91 1.35 36.00 11.91	Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dB) 16.01 32.29 10.17 0.00 16.29 32.29 10.17 0.00 1.22 32.29 10.17 0.00 1.35 32.29 10.17 0.00 15.68 36.00 11.91 0.00 16.31 36.00 11.91 0.00 1.35 36.00 11.91 0.00	Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 16.01 32.29 10.17 0.00 58.47 16.29 32.29 10.17 0.00 58.75 1.22 32.29 10.17 0.00 43.68 1.35 32.29 10.17 0.00 43.81 15.68 36.00 11.91 0.00 63.59 16.31 36.00 11.91 0.00 64.22 1.35 36.00 11.91 0.00 49.26	Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) 16.01 32.29 10.17 0.00 58.47 68.20 16.29 32.29 10.17 0.00 58.75 68.20 1.22 32.29 10.17 0.00 43.68 54.00 1.35 32.29 10.17 0.00 43.81 54.00 15.68 36.00 11.91 0.00 63.59 68.20 16.31 36.00 11.91 0.00 64.22 68.20 1.35 36.00 11.91 0.00 49.26 54.00	Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Margin Limit (dB) 16.01 32.29 10.17 0.00 58.47 68.20 -9.73 16.29 32.29 10.17 0.00 58.75 68.20 -9.45 1.22 32.29 10.17 0.00 43.68 54.00 -10.32 1.35 32.29 10.17 0.00 43.81 54.00 -10.19 15.68 36.00 11.91 0.00 63.59 68.20 -4.61 16.31 36.00 11.91 0.00 64.22 68.20 -3.98 1.35 36.00 11.91 0.00 49.26 54.00 -4.74	Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Margin Limit (dB) Polarization 16.01 32.29 10.17 0.00 58.47 68.20 -9.73 Horizontal 16.29 32.29 10.17 0.00 58.75 68.20 -9.45 Vertical 1.22 32.29 10.17 0.00 43.68 54.00 -10.32 Horizontal 1.35 32.29 10.17 0.00 43.81 54.00 -10.19 Vertical 15.68 36.00 11.91 0.00 63.59 68.20 -4.61 Horizontal 16.31 36.00 11.91 0.00 64.22 68.20 -3.98 Vertical 1.35 36.00 11.91 0.00 49.26 54.00 -4.74 Horizontal			

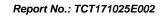




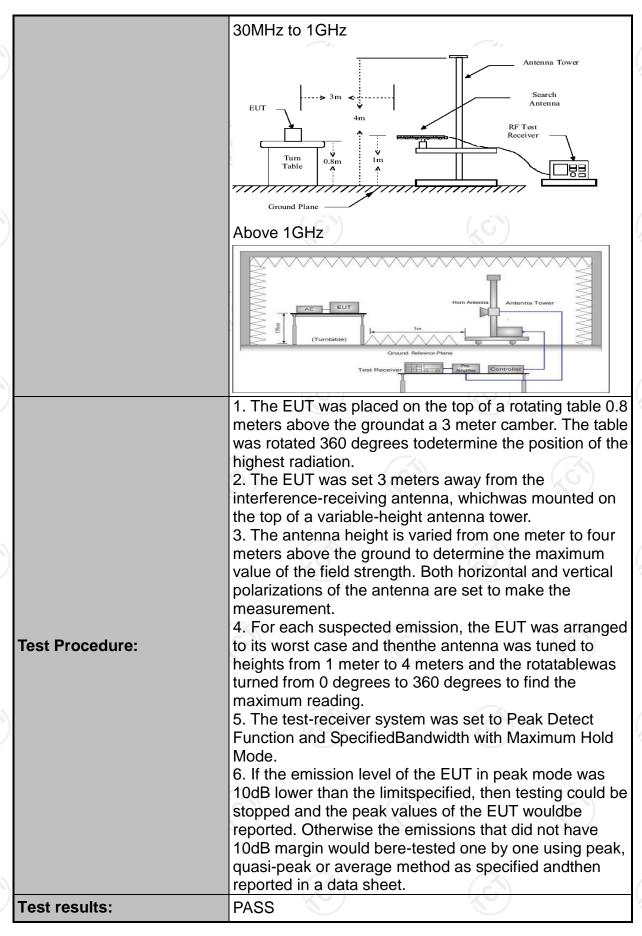
6.8. Spurious Emission

6.8.1.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	Section 15.	407 & 1	5.209 & 15.205
Test Method:	KDB 789033	D02 v01	r04		
Frequency Range:	9kHz to 40G	Hz			
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical		(C)	
Operation mode:	Transmitting	mode wit	th modulat	ion	
	Frequency 9kHz- 150kHz	Detector Quasi-pea		VBW 1kHz	Remark Quasi-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-pea	k 100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	per FCC Par general field below table, Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960 Frequency Above 1G			t forth in the meter)	Measurement Distance (meters) 300 30 30 3 3 3 3 3 Detector Peak Average
Test setup:	EUT	emission stance = 3m Turn table		Pre -A	Computer mplifier eceiver





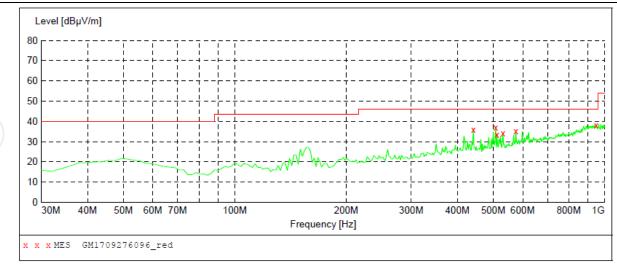




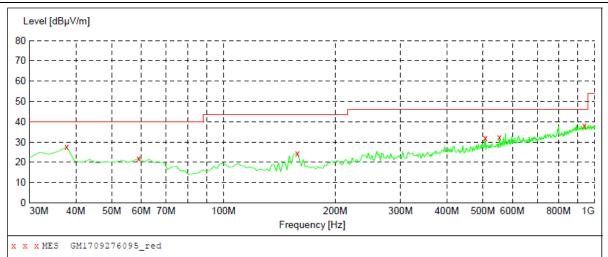


6.8.2. Test Data

Please refer to following diagram for individual Below 1GHz



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
441.280000 507.240000 511.120000 530.520000 575.140000 947.620000	36.10 37.20 33.30 34.20 35.20 38.00	-3.4 -1.6 -1.5 -1.1 0.0 7.2	46.0 46.0	9.9 8.8 12.7 11.8 10.8 8.0	QΡ	100.0 100.0 100.0 100.0 100.0	345.00 304.00 315.00 275.00 345.00 86.00	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height Cm	Azimuth deg	Polarization
37.760000 59.100000	27.60 21.90	-10.8 -9.8	40.0	12.4 18.1	~	100.0	142.00 7.00	VERTICAL VERTICAL
158.040000 507.240000	24.40	-13.5 -1.6	43.5 46.0	19.1	ÕР	100.0	222.00 273.00	VERTICAL VERTICAL
553.800000 937.920000	32.50 38.20	-0.7 7.1	46.0		ÕР	100.0	232.00	VERTICAL VERTICAL

Remark: 1. Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

2. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported



Above 1GHz

	Band I for Low										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value		
1110.01	35.87	24.33	4.46	36.61	40.98	74.00	-33.02	Vertical	Peak		
1768.62	35.48	25.50	5.90	37.07	42.14	74.00	-31.86	Vertical	Peak		
4332.85	34.45	30.44	9.07	37.59	46.40	74.00	-27.60	Vertical	Peak		
9909.80	31.54	38.35	13.59	34.30	59.58	74.00	-14.42	Vertical	Peak		
1814.22	21.94	38.35	13.59	34.30	49.58	54.00	-4.42	Horizontal	Peak		
3534.54	34.36	25.62	5.98	37.15	38.81	74.00	-35.19	Horizontal	Peak		
7981.72	34.96	28.77	8.17	38.36	43.54	74.00	-30.46	Horizontal	Peak		
7981.72	31.50	36.70	12.39	34.58	56.01	74.00	-17.99	Horizontal	Average		
10374.42	22.49	36.70	12.39	34.58	47.00	54.00	-7.00	Horizontal	Peak		
10374.42	39.57	38.61	13.59	35.53	66.24	74.00	-7.76	Horizontal	Average		

	Band I for Mid											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value			
1795.84	36.15	25.58	5.95	37.13	42.49	74.00	-31.51	Vertical	Peak			
3096.33	36.47	28.54	7.60	38.22	43.87	74.00	-30.13	Vertical	Peak			
4524.47	34.65	30.92	9.34	37.35	47.56	74.00	-26.44	Vertical	Peak			
7900.86	32.54	36.61	12.78	34.80	57.13	74.00	-16.87	Vertical	Peak			
7900.86	20.51	36.61	12.78	34.80	45.10	54.00	-9.90	Vertical	Average			
1353.80	36.71	24.58	4.92	36.49	39.72	74.00	-34.28	Horizontal	Peak			
2179.15	34.69	26.78	6.42	37.34	40.55	74.00	-33.45	Horizontal	Peak			
6992.14	30.97	35.80	11.84	34.80	53.81	74.00	-20.19	Horizontal	Peak			
11084.27	32.81	39.19	13.54	33.68	61.86	74.00	-12.14	Horizontal	Peak			
11084.27	22.26	39.19	13.54	33.68	51.31	54.00	-2.69	Horizontal	Average			

	Band I for High												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value				
1795.84	35.78	25.58	5.95	37.13	42.49	74.00	-31.51	Vertical	Peak				
3096.33	36.15	28.54	7.60	38.22	43.87	74.00	-30.13	Vertical	Peak				
4524.47	34.65	30.92	9.34	37.35	47.56	74.00	-26.44	Vertical	Peak				
7900.86	32.54	36.61	12.78	34.80	57.13	74.00	-16.87	Vertical	Peak				
7900.86	21.44	36.61	12.78	34.80	46.03	54.00	-7.97	Vertical	Average				
1353.80	36.71	24.58	4.92	36.49	39.72	74.00	-34.28	Horizontal	Peak				
2179.15	34.69	26.78	6.42	37.34	40.55	74.00	-33.45	Horizontal	Peak				
6992.14	31.97	35.80	11.84	34.80	54.81	74.00	-19.19	Horizontal	Peak				
6992.14	22.96	35.80	11.84	34.80	45.80	54.00	-8.20	Horizontal	Average				
11084.27	32.81	39.19	13.54	33.68	61.86	74.00	-12.14	Horizontal	Peak				
11084.27	21.11	39.19	13.54	33.68	50.16	54.00	-3.84	Horizontal	Average				

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.





				Ban	d IV for Low				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1963.18	36.45	26.00	6.21	37.27	40.98	74.00	-33.02	Vertical	Peak
3883.62	35.07	29.31	8.62	38.18	44.82	74.00	-29.18	Vertical	Peak
8770.01	33.11	37.59	13.07	34.32	59.45	74.00	-14.55	Vertical	Peak
8770.01	20.61	37.59	13.07	34.32	47.05	54.00	-6.95	Vertical	Average
11084.27	32.94	39.19	13.54	33.68	61.99	74.00	-12.01	Vertical	Peak
11084.27	19.21	39.19	13.54	33.68	48.26	54.00	-5.74	Vertical	Average
1795.84	38.52	25.58	5.95	37.13	42.92	74.00	-31.08	Horizontal	Peak
3184.25	36.86	28.58	7.70	38.20	44.94	74.00	-29.06	Horizontal	Peak
8002.06	32.75	36.72	12.30	34.53	57.24	74.00	-16.76	Horizontal	Peak
8002.06	19.52	36.72	12.30	34.53	44.01	54.00	-9.99	Horizontal	Average
10062.31	_32.78	38.44	13.55	33.71	61.06	74.00	-12.94	Vertical	Peak
10062.31	21.78	38.44	13.55	33.71	50.06	54.00	-3.94	Vertical	Average

				Ban	d IV for Mid				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1605.55	35.00	25.04	5.58	36.73	40.11	74.00	-33.89	Vertical	Peak
3333.55	34.55	28.64	7.88	38.43	43.66	74.00	-30.34	Vertical	Peak
8355.94	31.90	37.06	12.83	34.32	57.47	74.00	-16.53	Vertical	Peak
8355.94	19.75	37.06	12.83	34.32	45.32	54.00	-9.68	Vertical	Average
12024.96	31.17	39.10	14.65	33.28	61.64	74.00	-12.36	Vertical	Peak
12024.96	19.93	39.10	14.65	33.28	50.50	54.00	-3.50	Vertical	Average
1431.78	36.40	24.64	5.09	36.50	39.63	74.00	-34.37	Horizontal	Peak
2487.56	34.87	27.85	6.83	37.87	41.68	74.00	-32.32	Horizontal	Peak
7840.75	32.32	36.54	13.06	34.96	56.96	74.00	-17.04	Horizontal	Peak
7840.75	21.32	36.54	13.06	34.96	45.96	54.00	-8.04	Horizontal	Average
8703.29	33.49	37.51	13.00	34.40	59.60	74.00	-14.40	Horizontal	Peak
8703.29	23.19	37.51	13.00	34.40	49.30	54.00	-4.70	Horizontal	Average

Band IV for High									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1276.82	35.46	24.50	4.79	36.53	39.07	74.00	-34.93	Vertical	Peak
2657.76	34.48	28.10	7.04	37.99	41.63	74.00	-32.37	Vertical	Peak
3913.39	34.95	29.36	8.66	38.16	44.81	74.00	-29.19	Vertical	Peak
8927.68	32.53	37.80	13.23	34.36	59.20	74.00	-14.80	Vertical	Peak
8927.68	23.33	37.80	13.23	34.36	50.00	54.00	-4.00	Vertical	Average
1800.42	37.64	25.58	5.96	37.14	42.04	74.00	-31.96	Horizontal	Peak
3200.50	35.97	28.58	7.72	38.20	44.07	74.00	-29.93	Horizontal	Peak
9111.35	33.44	37.94	13.42	35.21	59.59	74.00	-14.41	Horizontal	Peak
9111.35	22.93	37.94	13.42	35.21	49.08	54.00	-4.92	Horizontal	Average
11140.85	32.20	39.17	13.51	33.52	61.36	74.00	-12.64	Horizontal	Peak
11140.85	21.17	39.17	13.51	33.52	50.33	54.00	-3.67	Horizontal	Average

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.



6.9. Frequency Stability Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055				
Test Method:	ANSI C63.10: 2013				
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 supposed voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at temperature of 20 degrees C.				
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply				
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.				
Test Result:	PASS				
Remark:	Pre-scan was performed at Antenna 0 and Antenna 1, the worst case was found. Only the test data of Antenna 0 was shown in this report.				





Test plots as follows:

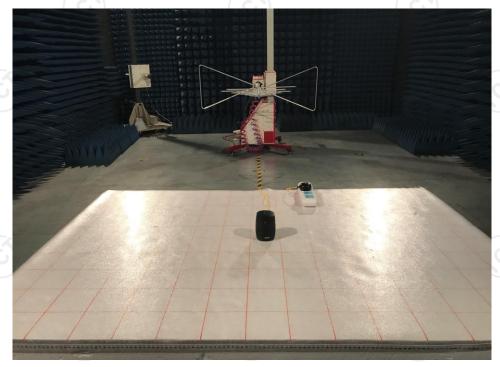
Band I for 802.11a Low						
Voltage(%)	Power(VDC)	TEMP(°C)	Test Fequnency (MHz)	Freq.Dev (MHz)	Deviation (ppm)	
100%		-30	5180	0.0029	0.56	
100%		-20	5180	0.0029	0.56	
100%		-10	5180	0.0029	0.56	
100%		0	5180	0.0029	0.56	
100%	5	10	5180	0.0029	0.56	
100%		20	5180	0.0029	0.56	
100%		30	5180	0.0029	0.56	
100%		40	5180	0.0029	0.56	
100%		50	5180	0.0029	0.56	
Low Battery power	5.5	20	5180	0.0029	0.56	
High Battery power	4.5	20	5180	0.0029	0.56	

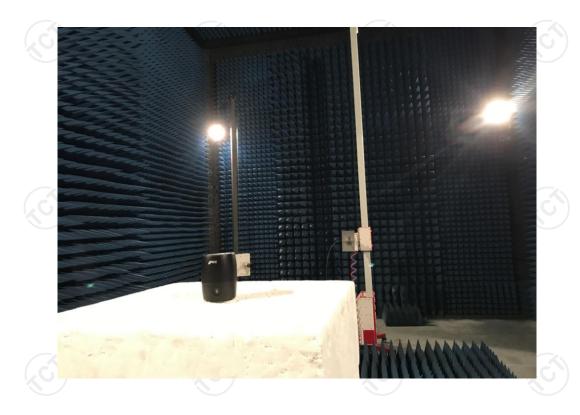
(3)			(c)	(3)		
Band IV for 802.11a Low						
Voltage(%)	Power(VDC)	TEMP(°C)	Test Fequnency (MHz)	Freq.Dev (MHz)	Deviation (ppm)	
100%		-30	5745	0.0029	0.50	
100%		-20	5745	0.0029	0.50	
100%		-10	5745	0.0029	0.50	
100%		0	5745	0.0029	0.50	
100%	5	10	5745	0.0029	0.50	
100%		20	5745	0.0029	0.50	
100%		30	5745	0.0029	0.50	
100%		40	5745	0.0029	0.50	
100%		50	5745	0.0029	0.50	
Low Battery power	5.5	20	5745	0.0029	0.50	
High Battery power	4.5	20	5745	0.0029	0.50	



Appendix A: Photographs of Test Setup

Radiated Emission





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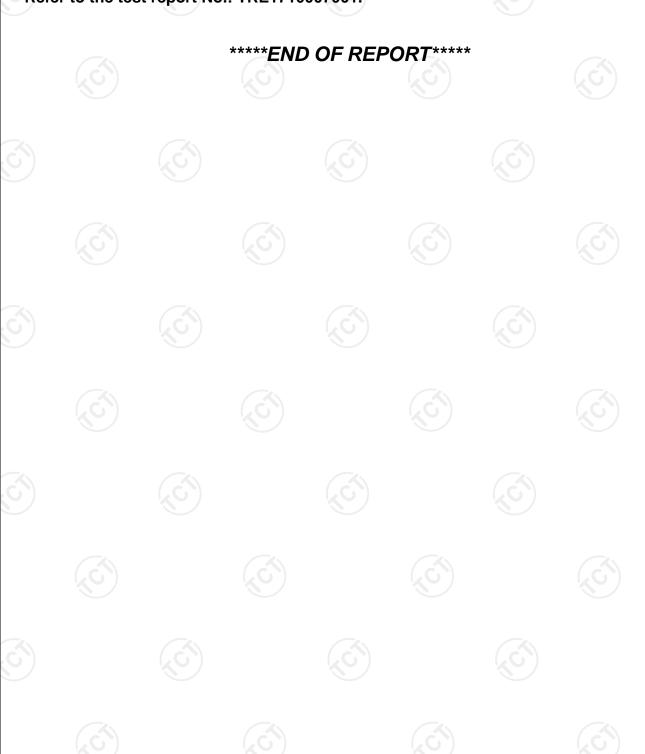




Appendix B: Photographs of EUT

Refer to the test report No.: TRE1710007001.





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