

TEST REPORT

Applicant: SKY MICROWAVE CO.,LTD

Address of Applicant: Room 708, Building B, 22 Xinghai Avenue, Yueliangwan Community, Nanshan District, Shenzhen, 518054, Guangdong China.

Manufacturer: Nanchong Telecommunication Co., Ltd

Address of Manufacturer: Airport Industrial Zone, Airport Blvd, Gaoping District, Nanchong, Sichuan Province

Equipment Under Test (EUT)

Product Name: Microwave Doppler sensor module

Model No.: SKY-FFV580P02A,SKY RFC580P01A-TTL,SKY RFC580P02A, SKY RFC580P09S,SKY RFC580S01T-TTL,SKY RFC580W01A, SKY RFC580W01T-TTL

Trade Mark: SKY

FCC ID: 2ADDD-FFV580P02A

IC : 21036-58GHZMOTION

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249
RSS-210 Issue 10 /RSS-Gen Issue 5

Date of sample receipt: Nov.01,2020

Date of Test: Nov.01,2020- Nov.17,2020

Date of report issued: Nov.17,2020

Test Result : PASS *

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

Authorized Signature:



Robinson Luo

Laboratory Manager

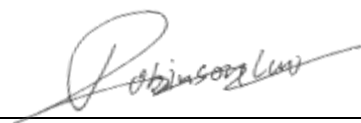
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2 Version

Version No.	Date	Description
00	Nov.17,2020	Original

Testd/Prepared By:  Date: Nov.17,2020

Project Engineer

Check By:  Date: Nov.17,2020

Reviewer

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
4.1 MEASUREMENT UNCERTAINTY	4
5 GENERAL INFORMATION	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	7
5.3 DESCRIPTION OF SUPPORT UNITS	7
5.4 DEVIATION FROM STANDARDS	7
5.5 ABNORMALITIES FROM STANDARD CONDITIONS	7
5.6 TEST FACILITY	7
5.7 TEST LOCATION	7
5.8 ADDITIONAL INSTRUCTIONS	7
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA.....	10
7.1 ANTENNA REQUIREMENT.....	10
7.2 CONDUCTED EMISSIONS	11
7.3 RADIATED EMISSION METHOD.....	14
7.4 20dB OCCUPY BANDWIDTH.....	19
8 TEST SETUP PHOTO	20
9 EUT CONSTRUCTIONAL DETAILS	20

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/ RSS-Gen Section 6.8	Pass
AC Power Line Conducted Emission	15.207/ RSS-Gen 8.8	N/A
Field strength of the fundamental signal	15.249 (a)/ RSS-Gen Section 7.3 RSS-210 Annex B.10 (a&b)	Pass
Spurious emissions	15.249 (a) (d)/15.209/ RSS-Gen Section 7.3 RSS-210 Annex B.10 (a&b)	Pass
Band edge	15.249 (d)/15.205/ RSS-Gen Section 8.10 RSS-210 Annex B.10 (b)	Pass
20dB Occupied Bandwidth	15.215 (c) / RSS-Gen 6.7	Pass

Remarks:

1. Test according to ANSI C63.10: 2013.
2. "N/A" stand for "not applicable"
3. Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Microwave Doppler sensor module
Model No.:	SKY-FFV580P02A, SKY RFC580P01A-TTL, SKY RFC580P02A, SKY RFC580P09S, SKY RFC580S01T-TTL, SKY RFC580W01A, SKY RFC580W01T-TTL
Test Model No.:	SKY
Test sample(s) ID:	GTSL202011000096-1 (Engineer sample) GTSL202011000096-2(Normal sample)
Operation Frequency:	5800MHz(± 75 MHz)
Channel numbers:	1
Modulation type:	/
Antenna Type:	Internal Antenna
Antenna gain:	1.85dBi(declare by applicant)
Power supply:	DC 5-12V From external circuit
Power supply (Auxiliary testing provided by the laboratory) :	Model: E3632A

Operation Frequency each of channel	
Channel	Frequency
1	5800MHz

Note:

Test Channel	Frequency
1	5800MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode when the power on
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	89.12	88.32	87.68

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

● FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

● IC —Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

● NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

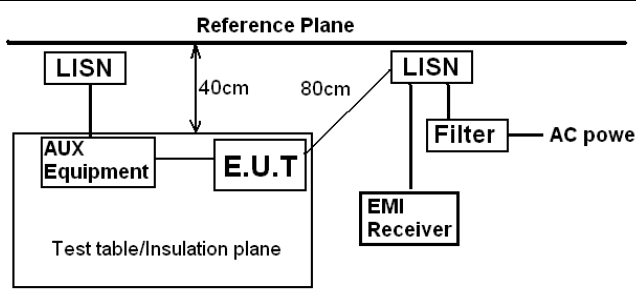
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203/RSS-Gen Section 6.8
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. 15.247(c) (1)(i) requirement: (i) Systems operating in the 5725-5875 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
<i>The antenna is PCB antenna, the best case gain of the antenna is 1.85dBi, reference to the appendix II for details</i>	

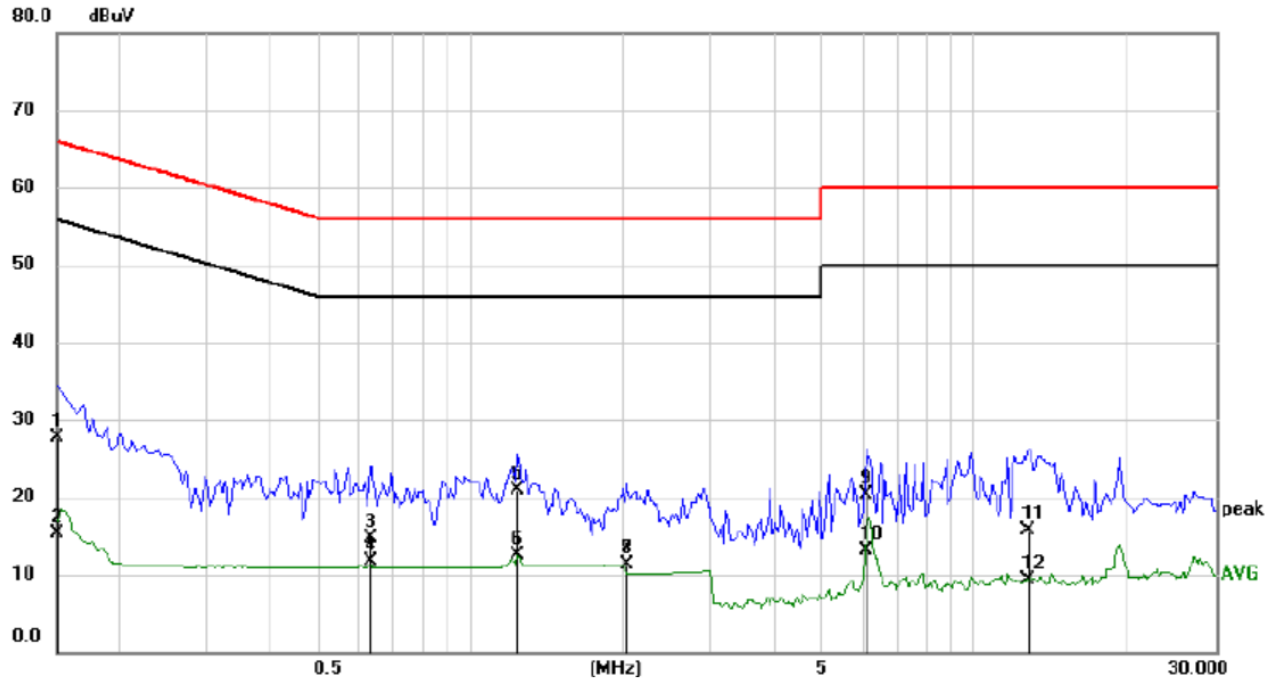
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013,RSS–Gen 8.8					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)			
			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.						
Test setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m					
Test procedure:	1. 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. 2. 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). 3. 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 Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

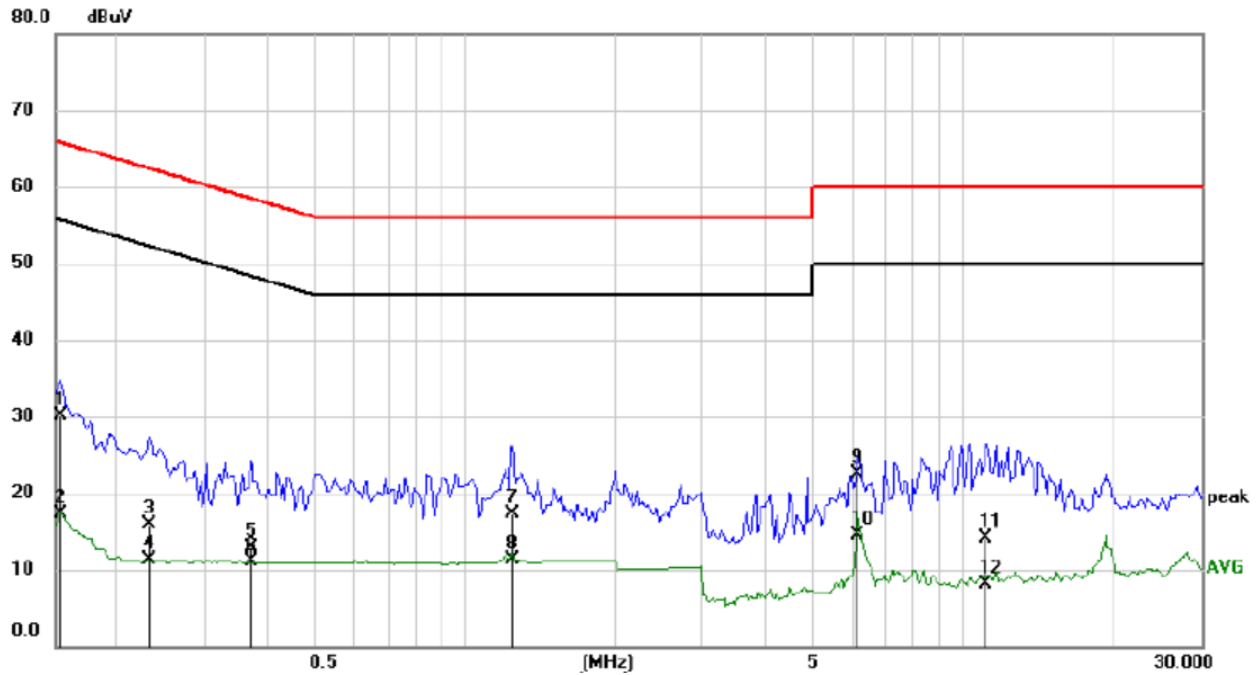
Measurement data:

Line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	16.85	10.92	27.77	66.00	-38.23	QP
2		0.1500	4.38	10.92	15.30	56.00	-40.70	AVG
3		0.6336	3.75	10.93	14.68	56.00	-41.32	QP
4		0.6336	0.84	10.93	11.77	46.00	-34.23	AVG
5		1.2381	10.05	10.94	20.99	56.00	-35.01	QP
6	*	1.2381	1.54	10.94	12.48	46.00	-33.52	AVG
7		2.0337	0.33	10.96	11.29	56.00	-44.71	QP
8		2.0337	0.31	10.96	11.27	46.00	-34.73	AVG
9		6.1005	9.12	11.15	20.27	60.00	-39.73	QP
10		6.1005	2.01	11.15	13.16	50.00	-36.84	AVG
11		12.7344	4.31	11.42	15.73	60.00	-44.27	QP
12		12.7344	-2.13	11.42	9.29	50.00	-40.71	AVG

Neutral:

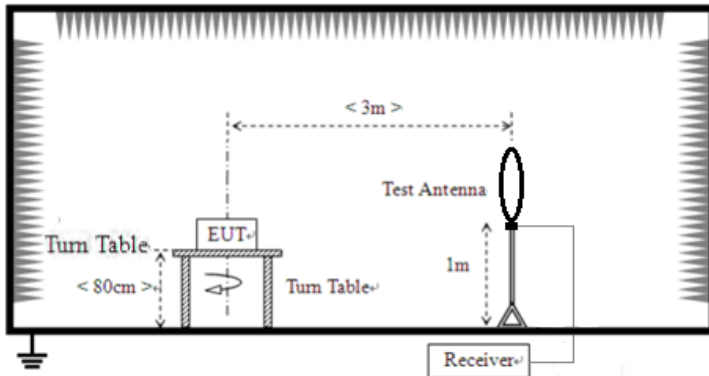


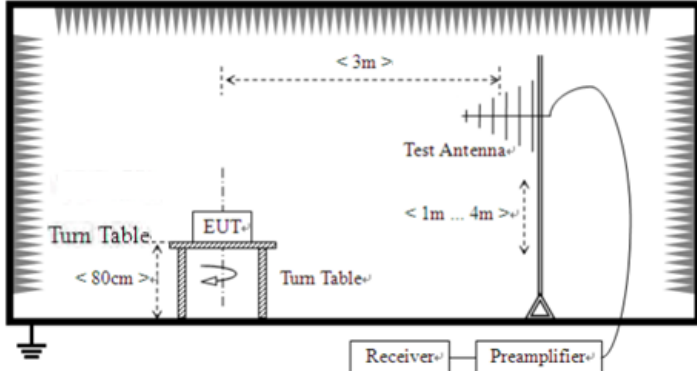
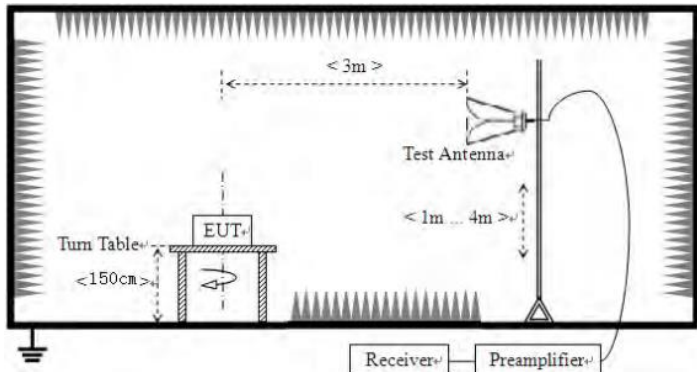
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	19.16	10.92	30.08	65.79	-35.71	QP
2		0.1539	6.43	10.92	17.35	55.79	-38.44	AVG
3		0.2319	5.03	10.92	15.95	62.38	-46.43	QP
4		0.2319	0.34	10.92	11.26	52.38	-41.12	AVG
5		0.3723	1.92	10.92	12.84	58.45	-45.61	QP
6		0.3723	0.23	10.92	11.15	48.45	-37.30	AVG
7		1.2420	6.42	10.94	17.36	56.00	-38.64	QP
8	*	1.2420	0.36	10.94	11.30	46.00	-34.70	AVG
9		6.1473	11.38	11.15	22.53	60.00	-37.47	QP
10		6.1473	3.28	11.15	14.43	50.00	-35.57	AVG
11		11.1899	2.75	11.39	14.14	60.00	-45.86	QP
12		11.1899	-3.25	11.39	8.14	50.00	-41.86	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Los

7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 / RSS-210 B.10(b)				
Test Method:	ANSI C63.10:2013, RSS-Gen 8.9,RSS-Gen 8.10				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	5725MHz~5875MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Remark
	0.009MHz-0.490MHz		2400/F(kHz) @300m		Quasi-peak Value
	0.490MHz-1.705MHz		24000/F(kHz) @30m		Quasi-peak Value
	1.705MHz-30.0MHz		30 @30m		Quasi-peak Value
	30MHz-88MHz		100 @3m		Quasi-peak Value
	88MHz-216MHz		150 @3m		Quasi-peak Value
	216MHz-960MHz		200 @3m		Quasi-peak Value
	960MHz-1GHz		500 @3m		Quasi-peak Value
	Above 1GHz		500 @3m		Average Value
			5000 @3m		Peak Value
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				

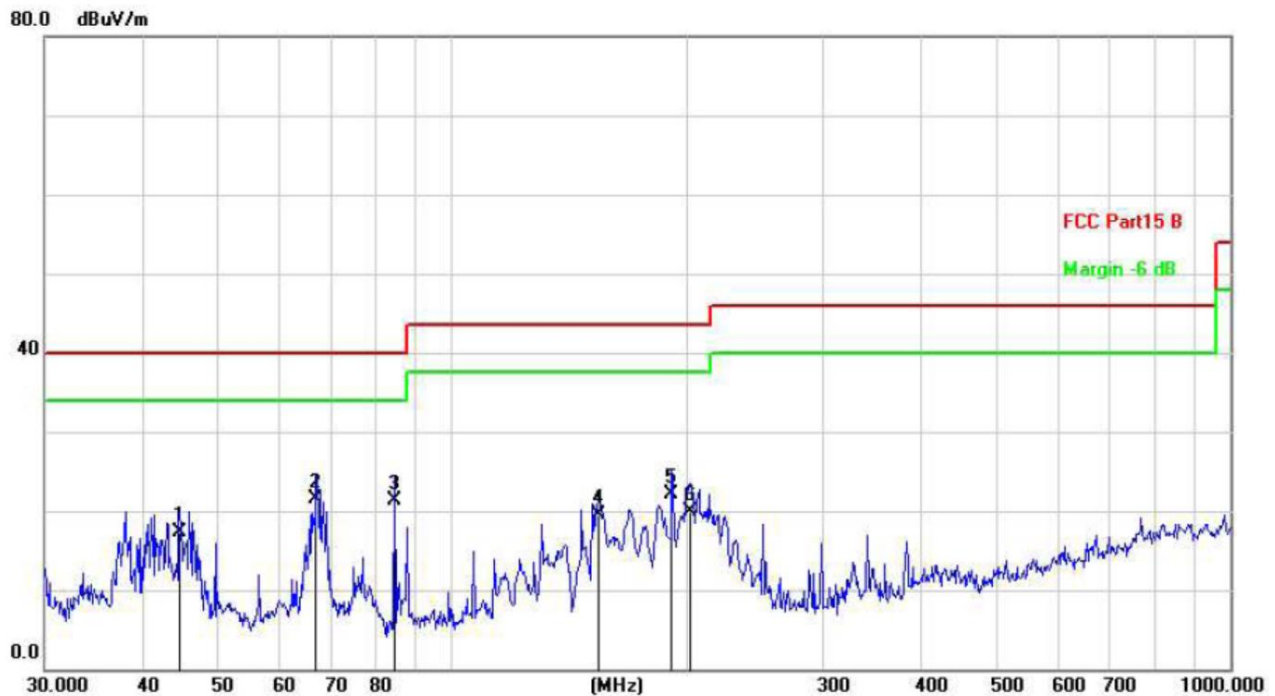
	 For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 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 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		44.7433	35.15	-17.89	17.26	40.00	-22.74	QP
2	*	66.9669	41.16	-19.58	21.58	40.00	-18.42	QP
3		84.4054	42.25	-21.03	21.22	40.00	-18.78	QP
4		154.2786	36.64	-17.17	19.47	43.50	-24.03	QP
5		191.7450	42.07	-19.94	22.13	43.50	-21.37	QP
6		202.1005	40.08	-20.11	19.97	43.50	-23.53	QP

Final Level =Receiver Read level + Correct Factor

Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	37.5479	39.48	-18.13	21.35	40.00	-18.65	QP
2		54.4515	38.04	-18.59	19.45	40.00	-20.55	QP
3		67.6751	38.09	-19.65	18.44	40.00	-21.56	QP
4		169.0054	33.12	-16.33	16.79	43.50	-26.71	QP
5		191.7450	38.18	-19.94	18.24	43.50	-25.26	QP
6		672.8444	28.24	-12.22	16.02	46.00	-29.98	QP

Final Level = Receiver Read level + Correct Factor

■ Above 1GHz

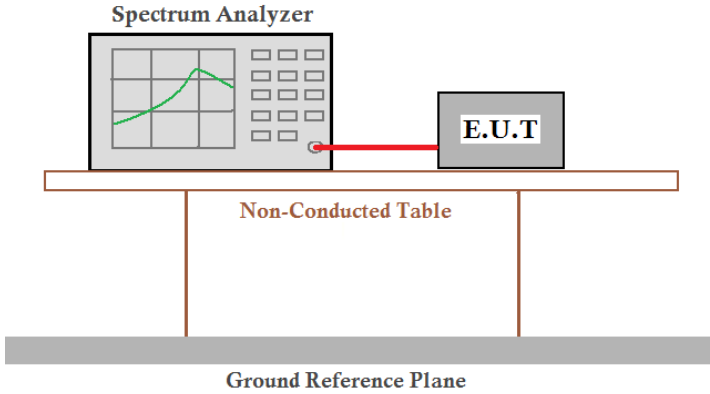
Frequency(MHz):				5800		Polarity:			HORIZONTAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	5724.95	48.67	PK	74	25.33	42.53	34.79	7.43	36.09	6.14
1	5724.95	--	AV	54	--	--	--	--	--	--
2	5800.00	89.12	PK	114	24.88	82.95	34.80	7.48	36.11	6.17
2	5800.00	85.05	AV	94	8.95	78.88	34.80	7.48	36.11	6.17
3	5875.005	51.43	PK	74	22.57	45.22	34.82	7.52	36.12	6.21
3	5875.005	--	AV	54	--	--	--	--	--	--
4	11596.500	51.97	PK	74	22.03	33.47	39.72	13.10	34.31	18.50
4	11596.500	--	AV	54	--	--	--	--	--	--

Frequency(MHz):				5800		Polarity:			VERTICAL	
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	5724.95	48.98	PK	74	25.02	42.84	34.79	7.43	36.09	6.14
1	5724.95	--	AV	54	--	--	--	--	--	--
2	5800.00	80.32	PK	114	33.68	74.15	34.80	7.48	36.11	6.17
2	5800.00	78.96	AV	94	15.04	72.79	34.80	7.48	36.11	6.17
3	5875.005	51.42	PK	74	22.58	45.21	34.82	7.52	36.12	6.21
3	5875.005	--	AV	54	--	--	--	--	--	--
4	11596.500	52.98	PK	74	21.02	34.48	39.72	13.10	34.31	18.50
4	11596.500	--	AV	54	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.
6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
7. For fundamental frequency, RBW 3MHz VBW 3MHz Peak detector is for PK Value; RMS detector is for AV value.

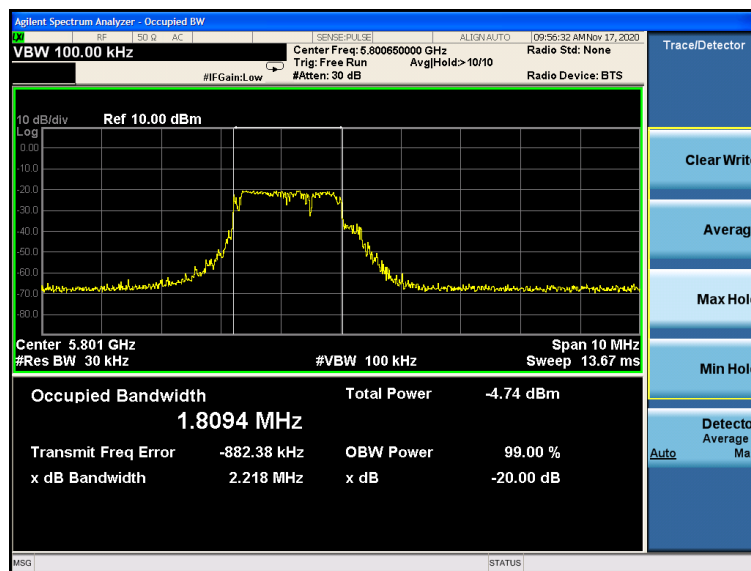
7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215					
Test Method:	ANSI C63.10:2013, RSS-Gen 6.7					
Limit:	Operation Frequency range 5725MHz~5875MHz					
Test setup:						
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

Measurement Data

Test channel	20dB bandwidth(MHz)	99% bandwidth(MHz)	Result
5800MHz	2.218MHz	1.8094	Pass

Test plot as follows:



5800MHz

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----