

age: 1 of 28

# TEST REPORT

Application No.:

BTEK241108034A01-T03

**Applicant:** 

Shenzhen Union Aurora Technology Co., Ltd.

**Address of Applicant:** 

1403A, Building 1, COFCO Innovation Park, Zone 67, Xingdong

Community, Xin'an Street, Bao'an District, Shenzhen

Manufacturer:

Shenzhen Union Aurora Technology Co., Ltd.

**Address of Manufacturer:** 

1403A, Building 1, COFCO Innovation Park, Zone 67, Xingdong

Community, Xin'an Street, Bao'an District, Shenzhen

**Equipment Under Test (EUT):** 

**EUT Name:** 

**Smart Projector** 

Test Model.:

N1 pro

Adding Model(s):

P601,P602,P603,P605,P606,P608,P609,N1,N1 Ultra,N1Se,N1 Mini, N2,N2Pro,N2 Ultra,N2Se,N2 Mini,N3,N3Pro,N3 Ultra,N3Se,N3Mini, N5,N5Pro,N5 Ultra,N5Se,N5Mini,N6,N6Pro,N6 Ultra,N6Se,N6Mini, N8,N8Pro,N8 Ultra,N8Se,N8Mini N9,N9Pro,N9 Ultra,N9Se,N9Mini, M1,M1Pro,M1 Ultra,M1Se,M1 Mini,M2,M2Pro,M2 Ultra,M2Se,M2 Mini, M3,M3Pro,M3 Ultra,M3Se,M3 Mini,M5,M5Pro,M5 Ultra,M5Se,M5 Mini, M6,M6Pro,M6 Ultra,M6Se,M6 Mini,M8,M8Pro,M8 Ultra,M8Se,M8 Mini, M9,M9Pro,M9 Ultra,M9Se,M9 Mini,P1,P1Pro,P1 Ultra,P1Se,P1 Mini, P2,P2Pro,P2 Ultra,P2Se,P2 Mini,P3,P3Pro,P3 Ultra,P3Se,P3Mini, P5,P5Pro,P5 Ultra,P5Se,P5Mini,P6,P6Pro,P6 Ultra,P6Se,P6Mini, P8,P8Pro,P8 Ultra,P8Se,P8Mini,P9,P9Pro,P9 Ultra,P9Se,P9Mini, X1,X1Xro,X1 Ultra,X1Se,X1 Mini,X2,X2Xro,X2 Ultra,X2Se,X2 Mini, X3,X3Xro,X3 Ultra,X3Se,X3Mini,X5,X5Xro,X5 Ultra,X5Se,X5Mini, X6,X6Xro,X6 Ultra,X6Se,X6Mini,X8,X8Xro,X8 Ultra,X8Se,X8Mini, X9,X9Xro,X9 Ultra,X9Se,X9Mini,U1,U1Uro,U1 Ultra,U1Se,U1 Mini, U2,U2Uro,U2 Ultra,U2Se,U2 Mini,U3,U3Uro,U3 Ultra,U3Se,U3Mini, U5,U5Uro,U5 Ultra,U5Se,U5Mini,U6,U6Uro,U6 Ultra,U6Se,U6Mini, U8,U8Uro,U8 Ultra,U8Se,U8Mini,U9,U9Uro,U9 Ultra,U9Se,U9Mini, V1,V1Vro,V1 Vltra,V1Se,V1 Mini,V2,V2Vro,V2 Vltra,V2Se,V2 Mini, V3, V3Vro, V3 Vltra, V3Se, V3Mini, V5, V5Vro, V5 Vltra, V5Se, V5Mini, V6, V6 Vro, V6 Vltra, V6 Se, V6 Mini, V8, V8 Vro, V8 Vltra, V8 Se, V8 Mini, V9, V9Vro, V9 Vltra, V9Se, V9Mini, M6, M6S, M6 Pro, M6 Se, M6 Ultra,

 $M6\ Mini\ \ P200, K200,\ D200,\ E200,\ M200, V200, X200, MX1, MX1\ Pro, M1S,$ 

 $N1S,M1S\ Pro,MX2,\ MX2\ Pro,M2S,\ N2S,M2SPro,MX3,\ MX3\ Pro,$ 

M3S,N3S,M3S Pro, MX4,MX4 Pro,M4S, N4S,M4S Pro,

MX9,MX9 Pro,M9S,N9S,M9S Pro

Trade Mark:

FCC ID: 2BOJD-N1PRO

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Bao'an District, Shenzhen, Guangdong, China 518104





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Standard(s): 47 CFR Part 15, Subpart C 15.247

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt Sample(s): 2024-12-09

**Date of Test:** 2024-12-10 to 2025-03-11

**Date of Issue:** 2025-03-12

Test Result: Pass\*

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

Ción Car

Lion Cai/ Approved & Authorized EMC Laboratory Manager

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		Revision Record	
Version	Issue Date	Revisions	Remarks
V0	2025-03-12	Initial	Valid
	0	0	

Authorized for issue by		
(FK . \$ \$ \$	Karl Lin	
8	Karl Liu / File Editor	
0	June Li	
	June Li/Reviewer	0 0

#### Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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# 2 Test Summary

Radio Spectrum Technical Requirement							
Standard Item Method Requirement							
47 CFR Part 15, Subpart C 15.247	Antenna Requirement	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass			

Radio Spectrum Matter Part						
Standard	Item	Method	Requirement	Result		
	Conducted Emissions at AC Power Line (150kHz-30MHz)	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
	Conducted Peak Output Power	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
	Minimum 6dB Bandwidth	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
47 CFR Part 15,	Power Spectrum Density	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Subpart C 15.247	Conducted Band Edges Measurement	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
	Conducted Spurious Emissions	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
	Radiated Emissions which fall in the restricted bands	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
	Radiated Spurious Emissions	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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Add: A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street

Bao'an District, Shenzhen, Guangdong, China 518104 Tel: +(86)755-2334 4200 E-mail: Service@btek-lab.com Web: www.btek-lab.com





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# **General Information**

4.1 Details of E.U.T.			
Power supply:	AC/DC ADAPTERMODEL:MC80-190530Y INPUT:100-240V~50/60Hz 2.0A OUTPUT:19V6A		
Frequency Range:	2402MHz to 2480MHz		
Bluetooth Version:	V5.1 BLE		
Modulation Type:	GFSK O		
Number of Channels:	40		
Antenna Type:	FPC Antenna		
Antenna Gain:	2.26 dBi		
Sample No.:	BTEK241108034A01-1		
Cample 140	Single Model.		
BTEK	Multi-Models:N1 pro,P601,P602,P603,P605,P606,P608,P609,N1, N1 Ultra ,N1Se,N1 Mini, N2,N2Pro,N2 Ultra,N2Se,N2 Mini,N3,N3Pro, N3 Ultra,N3Se,N3Mini, N5,N5Pro,N5 Ultra,N5Se,N5Mini,N6,N6Pro, N6 Ultra,N6Se,N6Mini, N8,N8Pro,N8 Ultra,N8Se,N8Mini N9,N9Pro, N9 Ultra,N9Se,N9Mini, M1,M1Pro,M1 Ultra,M1Se,M1 Mini,M2,M2Pro, M2 Ultra,M2Se,M2 Mini, M3,M3Pro,M3 Ultra,M3Se,M3 Mini,M5,M5Pro, M5 Ultra,M5Se,M5 Mini, M6,M6Pro,M6 Ultra,M6Se,M6 Mini,M8,M8Pro, M8 Ultra,M8Se,M8 Mini, M9,M9Pro,M9 Ultra,M9Se,M9 Mini,P1,P1Pro, P1 Ultra,P1Se,P1 Mini, P2,P2Pro,P2 Ultra,P2Se,P2 Mini,P3,P3Pro, P3 Ultra,P3Se,P3Mini, P5,P5Pro,P5 Ultra,P5Se,P5Mini,P6,P6Pro, P6 Ultra,P6Se,P6Mini, P8,P8Pro,P8 Ultra,P8Se,P8Mini,P9,P9Pro, P9 Ultra,P9Se,P9Mini, X1,X1Xro,X1 Ultra,X1Se,X1 Mini,X2,X2Xro, X2 Ultra,X2Se,X2 Mini, X3,X3Xro,X3 Ultra,X3Se,X3Mini,X5,X5Xro, X5 Ultra,X5Se,X5Mini, X6,X6Xro,X6 Ultra,X6Se,X6Mini,X8,X8Xro,		
Model(s) Difference Statement	X8 Ultra,X8Se,X8Mini, X9,X9Xro,X9 Ultra,X9Se,X9Mini,U1,U1Uro, U1 Ultra,U1Se,U1 Mini, U2,U2Uro,U2 Ultra,U2Se,U2 Mini,U3,U3Uro, U3 Ultra,U3Se,U3Mini, U5,U5Uro,U5 Ultra,U5Se,U5Mini,U6,U6Uro, U6 Ultra,U6Se,U6Mini, U8,U8Uro,U8 Ultra,U8Se,U8Mini,U9,U9Uro, U9 Ultra,U9Se,U9Mini, V1,V1Vro,V1 Vltra,V1Se,V1 Mini,V2,V2Vro, V2 Vltra,V2Se,V2 Mini, V3,V3Vro,V3 Vltra,V3Se,V3Mini,V5,V5Vro, V5 Vltra,V5Se,V5Mini, V6,V6Vro,V6 Vltra,V6Se,V6Mini,V8,V8Vro, V8 Vltra,V8Se,V8Mini, V9,V9Vro,V9 Vltra,V9Se,V9Mini,M6,M6S,M6 Pro, M6 Se,M6 Ultra,M6 Mini P200,K200, D200, E200, M200,V200,X200, MX1,MX1 Pro,M1S, N1S,M1S Pro,MX2, MX2 Pro,M2S, N2S,M2SPro,MX3, MX3 Pro,M3S,N3S,M3S Pro, MX4,MX4 Pro,M4S, N4S,M4S Pro, MX5,MX5 Pro,M5S,N5S,M5S Pro,MX6, MX6 Pro,M6S,N6S,M6S Pro, MX7,MX7 Pro,M7S, N7S,M7S Pro,MX8,MX8 Pro,M8S,N8S,M8S Pro, MX9,MX9 Pro,M9S,N9S,M9S Pro Only the model N1 pro was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No		

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Bao'an District, Shenzhen, Guangdong, China 518104 Tel: +(86)755-2334 4200 E-mail: Service@btek-la

E-mail : Service@btek-lab.com Web: www.btek-lab.com





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### 4.2 EUT Test Mode and Test Condition

Test Mode	Description	Remark				
1	Low/mid/High Channel	2402MHz/2440MHz/2480MHz				
Remark:1.only show the worst case in the test report.						

#### Channel Frequency Tabel:

BLE				
Channel	Frequency (MHz)			
00	2402			
01	2404			
/// ##KILIP	/// #EXCELLED			
19	2440			
TEX //	TEX //			
38	2478			
39	2480			

Test Conditions				
Temperature:	22.8 °C			
Relative Humidity:	34 %			
ATM Pressure:	1010 mbar			

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB		
Conducted Peak Output Power	± 0.75dB		
Minimum 6dB Bandwidth	± 3%		
Power Spectrum Density	± 2.84dB		
Conducted Band Edges Measurement	± 0.75dB		
Conducted Spurious Emissions	± 0.75dB		
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)		
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		

#### 4.4 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.

A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District,

Shenzhen, Guangdong, China 518104

Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200

FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

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# **Equipment List**

Conducted Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	
Shielding Room	YIHENG ENECTRONIC	9*5*3.3	YH-BT-220304-04	2025-02-15	2028-02-14	
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2024-06-11	2025-06-10	
Measurement Software	Fara 🔵	EZ_EMC Ver. FA-03A2	N/A	N/A	N/A	
LISN	Rohde&Schwarz	ENV216	101472	2024-06-11	2025-06-10	
LISN	Schwarzbeck	NSLK 8128	05127	2024-06-11	2025-06-10	

RF Conducted	- 34 111		11 V . 37	///	
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2025-02-15	2028-02-14
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2024-06-11	2025-06-10
DC Power Supply	E3632A	E3642A	KR75304416	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-6dB	N/A	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-3dB	N/A	2024-06-11	2025-06-10
RF Control Unit	Techy	TR1029-1	N/A	2024-06-11	2025-06-10
RF Sensor Unit	Techy	TR1029-2	N/A	2024-06-11	2025-06-10
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	141258	2024-06-11	2025-06-10
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2024-06-11	2025-06-10
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2024-06-11	2025-06-10
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A

RSE	0 0			0		
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT- 220304-01	2025-02-15	2028-02-14	
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2024-06-11	2025-06-10	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2024-06-16	2025-06-15	
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2024-06-11	2025-06-10	
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	2024-06-11	2025-06-10	
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2024-06-11	2025-06-10	
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2024-06-15	2025-06-14	
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2024-06-11	2025-06-10	
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2024-06-15	2025-06-14	
Low Noise Pre-amplifier	SKET	LNPA-1840G- 50	SK202203290 2	2024-06-11	2025-06-10	
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2024-06-11	2025-06-10	

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Bao'an District, Shenzhen, Guangdong, China 518104 Tel: +(86)755-2334 4200 E-mail: Service@btek-la E-mail: Service@btek-lab.com Web: www.btek-lab.com





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Loop Antenna	ETS	6502	00201177	2024-06-15	2025-06-14
Cable	ВТЕК	LMR400UF- NMNM-7.00M	KEK IT	2024-06-15	2025-06-14
Cable	BTEK	LMR400UF- NMNM-2.50M		2024-06-15	2025-06-14
Cable	BTEK	LMR400UF- NMNM-3.00M	) /	2024-06-15	2025-06-14
Cable	втек	SFT205PUR- MNSWSM- 7.00M	1	2024-06-15	2025-06-14
Cable	BTEK	SFT205PUR- MNSWSM- 2.50M		2024-06-15	2025-06-14
Cable	BTEK	SFT205PUR- MNSWSM- 2.50M	( A PARTY	2024-06-15	2025-06-14
Cable	BTEK	SFT205PUR- MNSWSM- 0.30M		2024-06-15	2025-06-14

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# 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

This product has a FPC antenna, fulfill the requirement of this section.

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# 7 Radio Spectrum Matter Test Results

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

Test Requirement

47 CFR Part 15, Subpart C 15.207

Test Method:

ANSI C63.10 (2013) Section 6.2

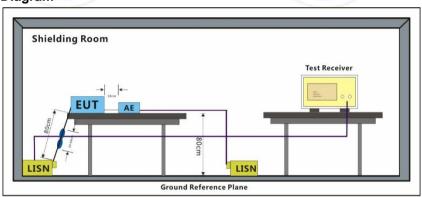
Limit:

Conducted limit(dBμV)				
Quasi-peak	Ave			
66 to 56*	56 to			
56	4			
60	5			
	<b>Quasi-peak</b> 66 to 56* 56			

\*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 7.1.1 Test Setup Diagram



#### 7.1.2 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  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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, Margin=Level-Limit

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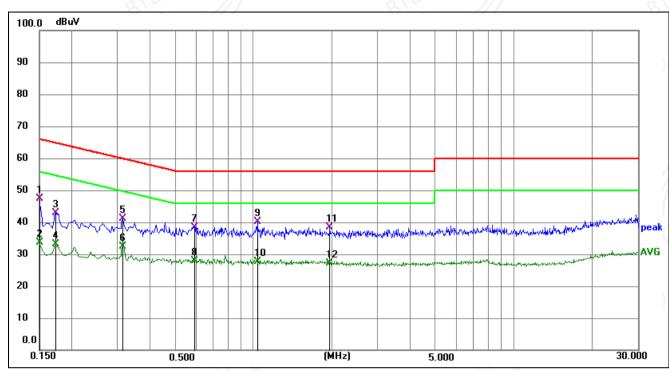
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Test Mode	Communication-TX	Polarity:	Neutral
-----------	------------------	-----------	---------



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	27.48	19.91	47.39	66.00	-18.61	QP	Р	
2	0.1500	13.64	19.91	33.55	56.00	-22.45	AVG	Р	
3	0.1725	23.02	19.92	42.94	64.84	-21.90	QP	Р	
4	0.1725	13.09	19.92	33.01	54.84	-21.83	AVG	Р	
5	0.3120	21.09	19.95	41.04	59.92	-18.88	QP	Р	
6	0.3120	12.39	19.95	32.34	49.92	-17.58	AVG	Р	
7	0.5910	18.51	19.98	38.49	56.00	-17.51	QP	Р	
8	0.5910	7.85	19.98	27.83	46.00	-18.17	AVG	Р	
9 *	1.0365	20.08	20.10	40.18	56.00	-15.82	QP	Р	
10	1.0365	7.65	20.10	27.75	46.00	-18.25	AVG	Р	
11	1.9635	18.21	20.16	38.37	56.00	-17.63	QP	Р	
12	1.9635	7.09	20.16	27.25	46.00	-18.75	AVG	Р	

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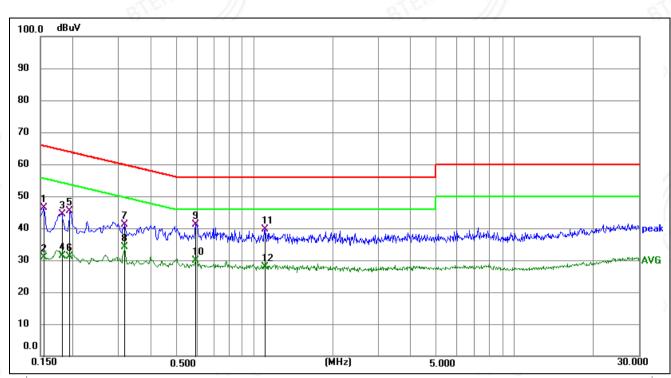
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Test Mode	Communication-TX	Polarity:	Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	26.44	19.85	46.29	65.75	-19.46	QP	Р	
2	0.1545	11.13	19.85	30.98	55.75	-24.77	AVG	Р	
3	0.1815	24.64	19.86	44.50	64.42	-19.92	QP	Р	
4	0.1815	11.58	19.86	31.44	54.42	-22.98	AVG	Р	
5	0.1949	25.48	19.86	45.34	63.83	-18.49	QP	Р	
6	0.1949	11.34	19.86	31.20	53.83	-22.63	AVG	Р	
7	0.3165	21.24	19.88	41.12	59.80	-18.68	QP	Р	
8	0.3165	14.16	19.88	34.04	49.80	-15.76	AVG	Р	
9 *	0.5910	21.23	19.92	41.15	56.00	-14.85	QP	Р	
10	0.5910	9.89	19.92	29.81	46.00	-16.19	AVG	Р	
11	1.0995	19.68	20.06	39.74	56.00	-16.26	QP	Р	
12	1.0995	7.78	20.06	27.84	46.00	-18.16	AVG	Р	

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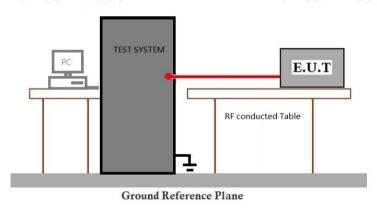
## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

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

### 7.2.1 Test Setup Diagram



#### 7.2.2 Measurement Procedure and Data

Please Refer to Appendix for Details

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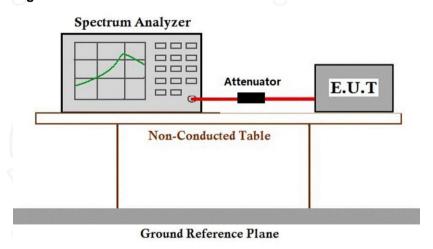
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### 7.3 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

#### 7.3.1 Test Setup Diagram



#### 7.3.2 Measurement Procedure and Data

Please Refer to Appendix for Details

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### 7.4 Power Spectrum Density

Test Requirement

47 CFR Part 15, Subpart C 15.247(e)

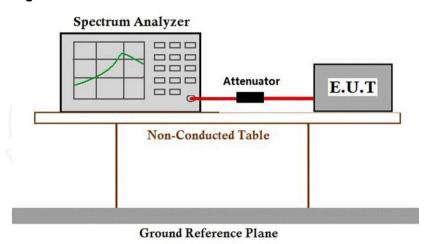
Test Method:

ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.4.1 Test Setup Diagram



#### 7.4.2 Measurement Procedure and Data

Please Refer to Appendix for Details

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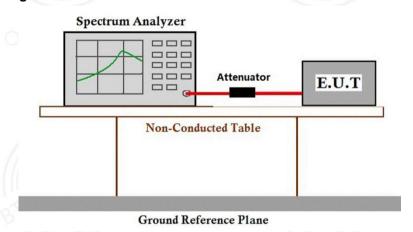
### 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.5.1 Test Setup Diagram



#### 7.5.2 Measurement Procedure and Data

Please Refer to Appendix for Details

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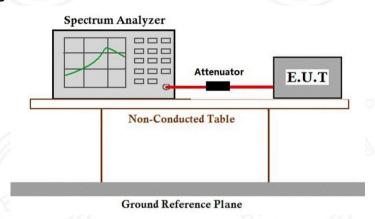
### 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.6.1 Test Setup Diagram



#### 7.6.2 Measurement Procedure and Data

Please Refer to Appendix for Details

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

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

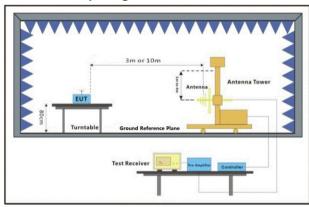
Test Method: ANSI C63.10 (2013) Section 6.10.5

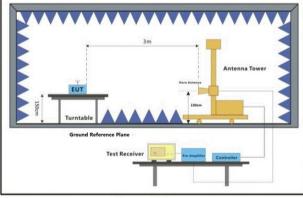
Limit:

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

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

#### 7.7.1 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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#### 7.7.2 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
- q. 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 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.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp gain, Margin=Level-Limit
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 3. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

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Horizontal; Modulation:GFSK; ; Channel:Low

					, ,			
No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	63.34	-24.14	39.20	74.00	-34.80	peak	Р
2	2390.000	72.47	-23.92	48.55	74.00	-25.45	peak	Р
3	2400.000	65.40	-23.92	41.48	74.00	-32.52	peak	Р

Polarity: Vertical; Modulation:GFSK; ; Channel:Low

	No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
	1	2310.000	68.99	-24.14	44.85	74.00	-29.15	peak	P
	2	2390.000	70.44	-23.92	46.52	74.00	-27.48	peak	P
Ī	3	2400.000	68.89	-23.92	44.97	74.00	-29.03	peak	Р

Polarity: Horizontal; Modulation:GFSK; ; Channel:High

	F	Danding	Fastan	11	Linait			
No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	70.03	-23.65	46.38	74.00	-27.62	peak	Р
2	2500.000	74.47	-23.65	50.82	74.00	-23.18	peak	Р

Polarity: Vertical; Modulation:GFSK; ; Channel:High

		r statity. Volucial, integration of only, i strainforming.										
>	No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F			
	1	2483.500	69.16	-23.65	45.51	74.00	-28.49	peak	Р			
	2	2500.000	72.27	-23.65	48.62	74.00	-25.38	peak	Р			

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### 7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

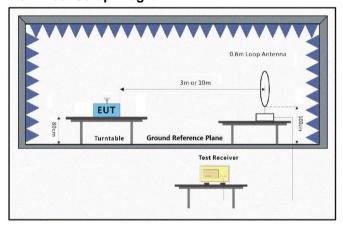
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
		, ,
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3

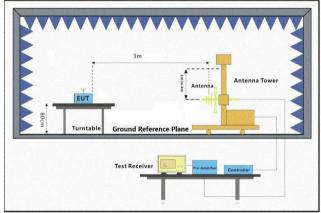
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

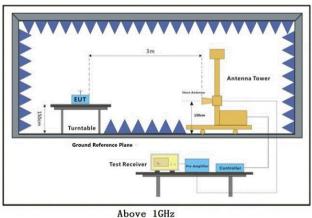
500

#### 7.8.1 Test Setup Diagram

Above 960







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#### 7.8.2 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.
- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

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1

2

3!

5 \*

6

4

84.9995

153.2004

195.8220

275.1570

381.2487

750.1083

44.90

54.41

58.32

57.19

57.75

45.68

-22.56

-17.31

-19.38

-18.32

-15.65

-9.18

22.34

37.10

38.94

38.87

42.10

36.50

Report No.: BTEK241108034A01E01

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Spurious Emissions Below 1GHz



40.00

43.50

43.50

46.00

46.00

46.00

-17.66

-6.40

-4.56

-7.13

-3.90

-9.50

QP

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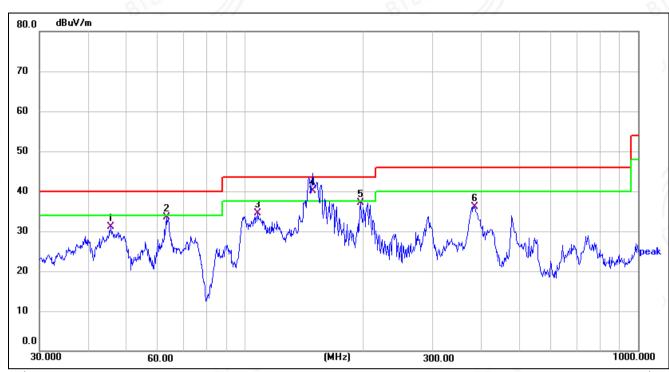
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Test Channel Low	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.5348	48.63	-17.50	31.13	40.00	-8.87	QP	100	142	Р	
2	63.0916	52.70	-19.15	33.55	40.00	-6.45	QP	100	142	Р	
3	107.8877	54.87	-20.43	34.44	43.50	-9.06	QP	100	142	Р	
4 *	148.9625	57.43	-17.23	40.20	43.50	-3.30	QP	100	142	Р	
5	196.5098	56.65	-19.45	37.20	43.50	-6.30	QP	100	142	Р	
6	383.9318	51.77	-15.58	36.19	46.00	-9.81	QP	100	142	Р	

#### Remark:

- 1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre\_amplifier gain.

3) Scan from 9kHz to 1 GHz, the disturbance 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.

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Polarity: Horizontal; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m )	Margin(dB)	Detector	P/F
1	4803.010	66.57	-15.60	50.97	74.00	-23.03	peak	Р
2	7206.260	56.96	-10.97	45.99	74.00	-28.01	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m )	Margin(dB)	Detector	P/F
1	4801.364	65.35	-15.60	49.75	74.00	-24.25	peak	Р
2	7206.000	55.35	-10.97	44.38	74.00	-29.62	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:middle

	Frequency	Readin a	Factor	Level	Limit (dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(0)	Margin(dB)	Detector	P/F
1	4880.280	69.94	-15.60	54.34	74.00	-19.66	peak	Р
2	7320.000	56.04	-10.97	45.07	74.00	-28.93	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:middle

	Tolanty. Vertical, Modulation. of Ort, Charmenmadic												
	Frequency	Readin	Factor	Level	Limit (dBuv/m			5/5					
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	)	Margin(dB)	Detector	P/F					
1	4880.432	66.84	-15.60	51.24	74.00	-22.76	peak	Р					
2	7320.000	58.56	-10.97	47.59	74.00	-26.41	peak	Р					

Polarity: Horizontal; Modulation:GFSK; Channel:High

	Frequency	Readin	Factor	Level	Limit (dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	)	Margin(dB)	Detector	P/F
1	4959.123	66.81	-15.60	51.21	74.00	-22.79	peak	Р
2	7440.207	59.45	-10.97	48.48	74.00	-25.52	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:High

	Frequency	Readin q	Factor	Level	Limit (dBuv/m	<sup>88</sup> "		
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)		Margin(dB)	Detector	P/F
1	4960.000	68.03	-15.60	52.43	74.00	-21.57	peak	Р
2	7440.000	59.56	-10.97	48.59	74.00	-25.41	peak	Р

Note:1. Testing is carried out with frequency rang 1GHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- 2. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.
- 3. Final Test Level = Reading Level + Factor, Margin= Level-Limit. Factor= Cabel loss +Antenna factor-Pre\_amplifier gain.

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# 8 Test Setup Photo

Please refer to the Appendix Test Setup Photos

# 9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos

- End of the Report -

ShenZhen BANTEK Testing Co.,Ltd.

Add: A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street

Bao'an District, Shenzhen, Guangdong, China 518104

