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TEST REPORT

Application No.: BTEK240726008AE

Applicant: Shenzhen Sincodynamic Technology Co.,Ltd

Address of Applicant: No.1 Changguang Industrial Park, No.40 Aoxin Road, Baoan Community, Y

uanshan St., Henggang, Shenzhen, 518115 China

Manufacturer: Shenzhen Sincodynamic Technology Co.,Ltd

Address of Manufacturer: No.1 Changguang Industrial Park, No.40 Aoxin Road, Baoan Community, Y

uanshan St., Henggang, Shenzhen, 518115 China

Equipment Under Test (EUT):

EUT Name: ANC Bluetooth Headphone

Test Model.: BSBTH30BK

Adding Model(s): BSBTH30BL,BSBTH30BKWH,BSSONICHOPBK,BSSONICHOPNV,

BSSONICHOPWH,P3-ANC

Trade Mark:

FCC ID: 2AJO8-BSBTH30

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

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt: 2024-07-26

Date of Test: 2024-07-27 to 2024-08-07

Date of Issue: 2024-08-08

Test Result: Pass*

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

Lion Cai/ Approved & Authorized EMC Laboratory Manager

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Revision Record					
Version Chapter Date Modifier Remark					
V0		2024-08-08		Original	
	0		0		

Authorized for issue by		
BIEK	Zora. Huang	
	Zora Huang/Project Engineer	
	June Li	0 0
	June Li/Reviewer	

Remarks:

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2 Test Summary

Radio Spectrum Technical Requirement						
Standard	Item	Method	Requirement	Result		
47 CED Dort 15	Antenna Requirement	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		
47 CFR Part 15, Subpart C 15.247	Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass		

Item	Standard	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 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
	20dB Bandwidth	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
	Carrier Frequencies Separation	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
47 CFR Part 15,	Hopping Channel Number	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Subpart C 15.247	Dwell Time	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
	Conducted Band Edges Measurement	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
	Conducted Spurious Emissions	ANSI C63.10 (2013) Section 7.8.8	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

Declaration of EUT Family Grouping:BSBTH30BL,BSBTH30BKWH,BSSONICHOPBK,BSSONICHOPNV,BSSONICHOPWH,P3-ANC

Model No.: Sound Spot II, BSBTH30BK have the same the electrical circuit design, layout, components used, only model number is difference.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Input:5V:1A Battery:3.7V: 200mAh 0.74wh
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.3
Modulation Type:	GFSK, π/4DQPSK,8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58 dBi
Sample No.:	BTEK240726008AE-01
	- ///

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 EUT Test Mode and Test Condition

Test Mode	Description	Remark		
1	Low/mid/High Channel	GFSK, π/4DQPSK, 8DPSK		
2	Hopping	GFSK, π/4DQPSK, 8DPSK		
Remark:1.only show the worst case in the test report.				

Test Conditions				
Temperature:	24.2 °C			
Relative Humidity:	47.5 %			
ATM Pressure:	1010 mbar			

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWFI	HW-200440C00	/

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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±3.12dB
Conducted Peak Output Power	± 0.76dB
20dB Bandwidth	± 3%
Carrier Frequencies Separation	± 7.3 x 10-8
Hopping Channel Number	± 7.3 x 10-8
Dwell Time	± 0.4%
Conducted Band Edges Measurement	± 0.8dB
Conducted Spurious Emissions	± 0.8dB
Radiated Emissions which fall in the restricted bands	±5.1dB (1GHz-6GHz); ±5.2dB(above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.1dB
Radiated Spurious Emissions (Above 1GHz)	±5.1dB (1GHz-6GHz); ±5.2dB(above 6GHz)

4.5 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:0755-2334 4200 Fax: 0755-2334 4200

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Shielding Room	YIHENG ENECTRONIC	9*5*3.3	YH-BT-220304-04	2022-03-03	2025-03-02
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2024-06-11	2025-06-10
Measurement Software	Fara 🔵	EZ_EMC Ver. FA-03A2	N/A	O 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 17 . 37	1)]	
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2022-03-03	2025-03-02
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 V2.0.0.0	N/A	N/A	N/A

RSE						
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT- 220304-01	2022-05-06	2025-05-05	
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	O 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	SK2022032902	2024-06-11	2025-06-10	

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Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2024-06-11	2025-06-10
Loop Antenna	ETS	6502	00201177	2024-06-15	2025-06-14

General used equipment							
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date		
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2024-06-11	2025-06-10		
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2024-06-11	2025-06-10		

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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 an PCB antenna, fulfill the requirement of this section.

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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

Limit:

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

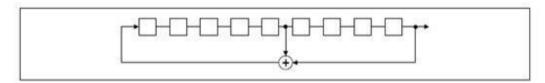
Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

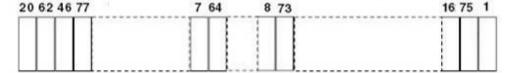
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

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Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to

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avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

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7 Radio Spectrum Matter Test Results

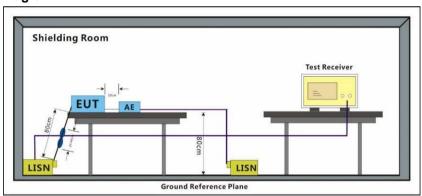
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amission (MIII-)	Conducted limit(dBµV)					
Frequency of emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm of the fr	equency.	-X-3× 111				
Detector: Peak for pre-scan (9kHz rese	olution 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

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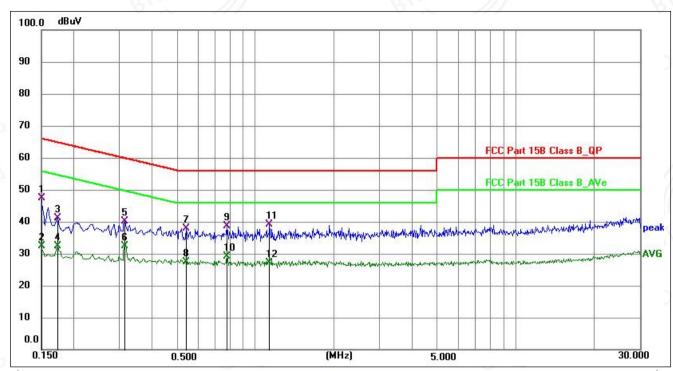






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Test Mode	Communication	Polarity:	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	27.54	19.76	47.30	66.00	-18.70	QP	Р	
2	0.1500	12.52	19.76	32.28	56.00	-23.72	AVG	Р	
3	0.1725	21.45	19.79	41.24	64.84	-23.60	QP	Р	
4	0.1725	12.52	19.79	32.31	54.84	-22.53	AVG	Р	
5	0.3120	20.35	19.83	40.18	59.92	-19.74	QP	Р	
6	0.3120	12.50	19.83	32.33	49.92	-17.59	AVG	Р	
7	0.5415	17.95	19.85	37.80	56.00	-18.20	QP	Р	
8	0.5415	7.54	19.85	27.39	46.00	-18.61	AVG	Р	
9	0.7755	18.68	19.94	38.62	56.00	-17.38	QP	Р	
10	0.7755	9.15	19.94	29.09	46.00	-16.91	AVG	Р	
11 *	1.1310	19.18	20.03	39.21	56.00	-16.79	QP	Р	
12	1.1310	7.10	20.03	27.13	46.00	-18.87	AVG	Р	

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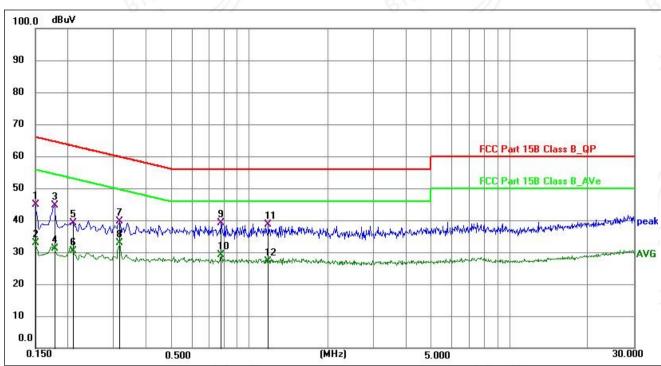
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Test Mode	Communication	Polarity:	Line
-----------	---------------	-----------	------



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	25.22	19.74	44.96	66.00	-21.04	QP	Р	
2	0.1500	13.06	19.74	32.80	56.00	-23.20	AVG	Р	
3	0.1770	24.74	19.78	44.52	64.63	-20.11	QP	Р	
4	0.1770	11.40	19.78	31.18	54.63	-23.45	AVG	Р	
5	0.2085	19.37	19.80	39.17	63.26	-24.09	QP	Р	
6	0.2085	10.62	19.80	30.42	53.26	-22.84	AVG	Р	
7	0.3165	19.89	19.82	39.71	59.80	-20.09	QP	Р	
8	0.3165	13.05	19.82	32.87	49.80	-16.93	AVG	Р	
9	0.7755	19.18	19.94	39.12	56.00	-16.88	QP	Р	
10 *	0.7755	9.19	19.94	29.13	46.00	-16.87	AVG	Р	
11	1.1805	18.65	20.02	38.67	56.00	-17.33	QP	Р	
12	1.1805	7.08	20.02	27.10	46.00	-18.90	AVG	Р	

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7.2 Conducted Peak Output Power

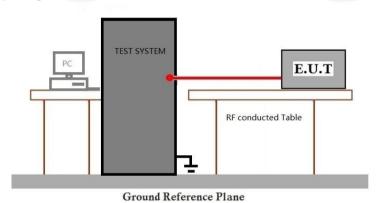
Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

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

cable loss=0.83dB Please Refer to Appendix for Details

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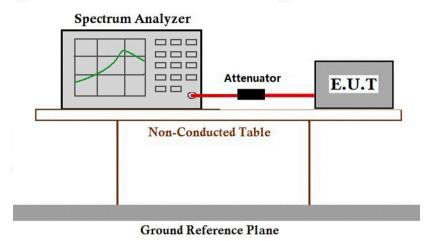
Page: 18 of 33

7.3 20dB Bandwidth

Test Requirement
Test Method:

47 CFR Part 15, Subpart C 15.247(a)(1) ANSI C63.10 (2013) Section 7.8.7

7.3.1 Test Setup Diagram



7.3.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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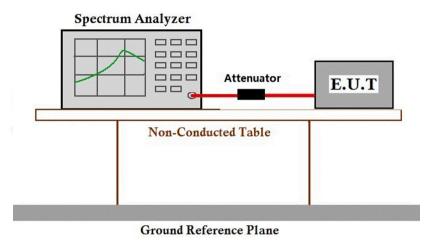
7.4 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)
Test Method: ANSI C63.10 (2013) Section 7.8.2

Limit:

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.4.1 Test Setup Diagram



7.4.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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7.5 Hopping Channel Number

Test Requirement

47 CFR Part 15, Subpart C 15.247a(1)(iii)

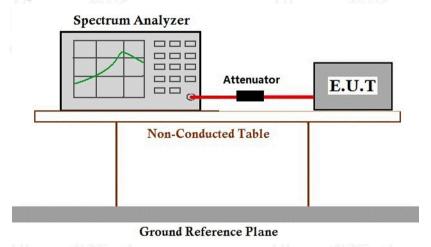
Test Method:

ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
002.028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.5.1 Test Setup Diagram



7.5.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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7.6 Dwell Time

Test Requirement

47 CFR Part 15, Subpart C 15.247a(1)(iii)

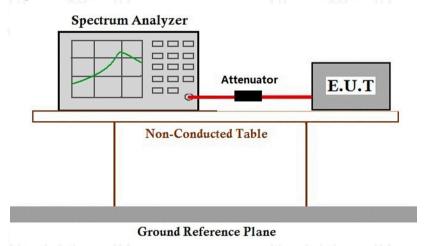
Test Method:

ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4s within a 20s period(20dB bandwidth<250kHz)
902-926	0.4s within a 10s period(20dB bandwidth≥250kHz)
2400-2483.5	0.4s within a period of 0.4s multiplied by the number
2400-2463.5	of hopping channels
5725-5850	0.4s within a 30s period

7.6.1 Test Setup Diagram



7.6.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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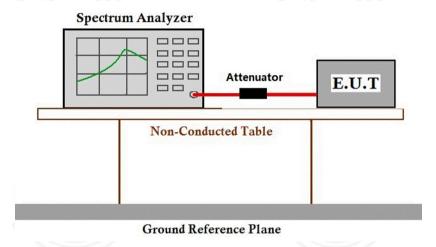
7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.6

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).

7.7.1 Test Setup Diagram



7.7.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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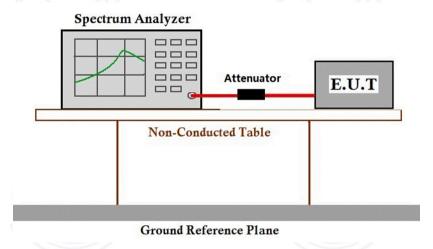
7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.8

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).

7.8.1 Test Setup Diagram



7.8.2 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix for Details

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7.9 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.

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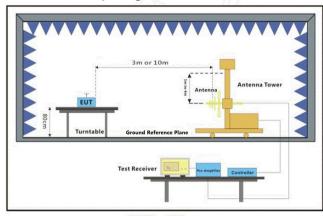
Bao'an District, Shenzhen, Guangdong, China 518104

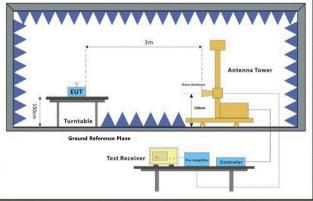




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7.9.1 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.9.2 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.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Reading Level + Factor

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

Note:1) Level = Reading level + Factor

2) Through pre-scan found the worst case is GFSK mode. Only the worst case is recorded in the report.

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Polarity: Horizontal; Modulation:GFSK; Channel:Low

			,					
	Frequenc	LFL			RIFER	///		1
	у	Reading	Factor	Level	Limit	Margin(dB	Detecto	
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m))	r	P/F
1	2310.000	66.16	-24.14	42.02	74.00	-31.98	peak	Р
2	2390.000	70.29	-23.92	46.37	74.00	-27.63	peak	Р
3	2400.000	66.41	-23.92	42.49	74.00	-31.51	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:Low

No.	Frequenc y (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB	Detecto r	P/F
1	2310.000	66.66	-24.14	42.52	74.00	-31.48	peak	Р
2	2390.000	69.04	-23.92	45.12	74.00	-28.88	peak	Р
3	2400.000	69.13	-23.92	45.21	74.00	-28.79	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:High

	Frequenc							
	у	Reading	Factor	Level	Limit	Margin(dB	Detecto	
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m))	r	P/F
1	2483.500	69.92	-23.65	46.27	74.00	-27.73	peak	Р
2	2500.000	72.50	-23.65	48.85	74.00	-25.15	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(d B)	Detector	P/F
1	2483.500	69.55	-23.65	45.90	74.00	-28.10	peak	Р
2	2500.000	73.21	-23.65	49.56	74.00	-24.44	peak	Р

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7.10 Radiated Spurious Emissions

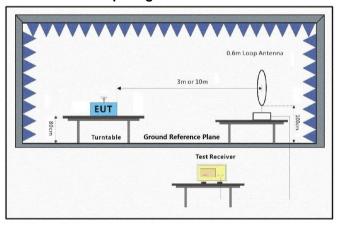
Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

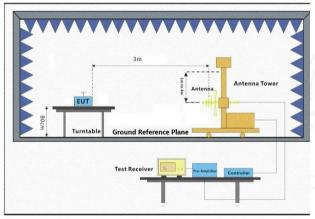
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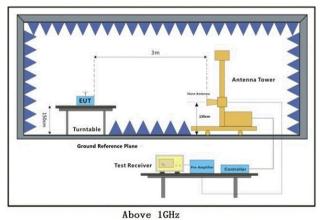
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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.

7.10.1 Test Setup Diagram







7.10.2 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.

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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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4

5

6 *

465.5994

665.8034

869.1302

43.05

45.25

44.34

-13.82

-10.45

-8.00

29.23

34.80

36.34

46.00

46.00

46.00

-16.77

-11.20

-9.66

QP

QP

QP

100

100

100

360

360

360

P

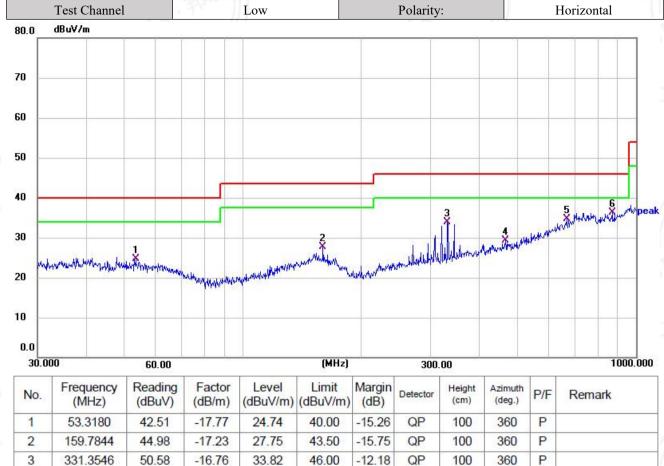
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Spurious Emissions Below 1GHz



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Test Channel	Low	Polarity:	Vertical
178	2 ///	BIE	///
0.0 dBuV/m			
			A MARINA
		3	4 November of the Standard of the Committee of the Standard of
1 3	2	White is down the deputation	+ My marin

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	38.0783	41.88	-17.09	24.79	40.00	-15.21	QP	100	2	Р	
2	60.2801	42.12	-18.11	24.01	40.00	-15.99	QP	100	2	Р	
3	151.0666	43.24	-16.85	26.39	43.50	-17.11	QP	100	2	Р	
4	470.5232	43.13	-13.92	29.21	46.00	-16.79	QP	100	2	Р	
5	752.7432	45.57	-8.80	36.77	46.00	-9.23	QP	100	2	Р	
6 *	929.0082	44.78	-7.51	37.27	46.00	-8.73	QP	100	2	Р	

(MHz)

300.00

Remark:

20

10

0.0 30.000

- 1) Through pre-scan found the worst case is GFSK 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

60.00

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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1000.000



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Polarity: Horizontal; Modulation:GFSK; Channel:Low

			. I Torrizorritar,		,			
	971	Readin	///		Limit	///		1
	Frequency	g	Factor	Level	(dBuv/m			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m))	Margin(dB)	Detector	P/F
1	4804.000	65.53	-15.60	49.93	74.00	-24.07	peak	Р
2	7206.000	57.86	-10.97	46.89	74.00	-27.11	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	4804.000	67.60	-15.60	52.00	74.00	-22.00	peak	Р
2	7206.000	58.04	-10.97	47.07	74.00	-26.93	peak	Р

Polarity: Horizontal; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m	Margin(dB)	Detector	P/F
INO.	(IVITZ)	(ubuv)	(ub/III)	(ubuv/III))	Margin(ub)	Detector	F/F
1	4880.905	68.59	-15.60	52.99	74.00	-21.01	peak	Р
2	7320.000	58.59	-10.97	47.62	74.00	-26.38	peak	Р

Polarity: Vertical: Modulation:GFSK: Channel:middle

		1 Oldinty	. Voitioai, ivi	oddiation.Or v	ort, Oriannoi	imadic		
No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m	Margin(dB)	Detector	P/F
INO.	(1711 12)	(ubuv)	(ub/III)	(ubuv/iii))	Margin(GD)	Detector	1 /1
1	4880.884	66.55	-15.60	50.95	74.00	-26.84	peak	Р
2	7320.000	58.69	-10.97	47.72	74.00	-27.30	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	4959.490	67.58	-15.60	51.98	74.00	-22.02	peak	Р
2	7439.482	59.20	-10.97	48.23	74.00	-25.77	peak	Р

Polarity: Vertical; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Readin g (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m	Margin(dB)	Detector	P/F
1	4960.000	67.96	-15.60	52.36	74.00	-21.64	peak	Р
2	7440.000	58.41	-10.97	47.44	74.00	-26.56	peak	Р

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Through pre-scan found the worst case is GFSK mode. Only the worst case is recorded in the report.
- 3) Scan from 1GHz to 25GHz, the disturbance above 18GHz 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

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amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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

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8 Test Setup Photo

Refer to Appendix – Test Setup Photos.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Appendix EUT Photos

- End of the Report -

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