TEST REPORT

Reference No	WTX21X10114264R1W001
FCC ID	2AUTE-QUTIE
Applicant	Xiamen Hanin Electronic Technology Co.,Ltd.
Address	Room 305A, Angye Building, Pioneering Park, Torch High-tech, Zone, Xiamen
Manufacturer	The same as Applicant
Address	The same as Applicant
Product Name :	Portable Lable Printer
Model No	Qutie
Standards	FCC Part 15.247
Date of Receipt sample :	2022-08-31
Date of Test	2022-08-31 to 2022-09-22
Date of Issue	2022-09-22
Test Report Form No :	WTX_Part 15_247W
Test Result	Pass

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 approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Report version

Version No.	Date of issue	Description	
Rev.00	2022-09-22	Original	
/	/	/	

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of El	Т
Product Name:	Portable Lable Printer
Trade Name	HPRT, iDPRT
Model No.:	Qutie
Adding Model(s):	/
Rated Voltage:	Charging port: DC5V
Raied Volidge.	Battery: DC3.7V
Battery Capacity:	1500mAh
Adapter Model:	/

Note: The test data is gathered from a production sample, provided by the manufacturer.

Technical Characteristics of EUT		
Bluetooth Version:	V4.2 (BR mode)	
Frequency Range:	2402-2480MHz	
RF Output Power:	-1.13dBm (Conducted)	
Data Rate:	1Mbps	
Modulation:	GFSK	
Quantity of Channels:	79	
Channel Separation:	1MHz	
Type of Antenna:	PCB Antenna	
Antenna Gain:	2dBi	
Note: The Antenna Gain is provided by the customer and can affect the validity of results.		

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

<u>558074 D01 15.247 Meas Guidance v05r02</u>: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd. Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintain ed in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest ossible emissions level, more detailed description as follows:

Test Mode List				
Test Mode	Description	Remark		
TM1	Low Channel	2402MHz		
TM2	Middle Channel	2441MHz		
TM3	High Channel	2480MHz		
TM4	Hopping	2402-2480MHz		

Modulation Configure			
Packet	Packet Type	Packet Size	
DH1	4	27	
DH3	11	183	
DH5	15	339	
	DH1 DH3	DH1 4 DH3 11	

Normal mode: the Bluetooth has been tested on the modulation of GFSK, compliance test and record the worst case.

Test Conditions

Temperature:	22~25 °C	
Relative Humidity:	45~55 %	
ATM Pressure:	1019 mbar	

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB-C Cable	0.58	Shielded	Without Ferrite

Special Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	/	A138A-120150U-CN2	/

1.6 Measurement Uncertainty

Measurement uncertainty			
Parameter	Conditions	Uncertainty	
RF Output Power	Conducted	± 0.42 dB	
Occupied Bandwidth	Conducted	$\pm 1.5\%$	
Conducted Spurious Emission	Conducted	±2.17dB	
Conducted Emissions	Conducted	9-150kHz \pm 3.74dB	
		0.15-30MHz ±3.34dB	
	Radiated	30-200MHz ±4.52dB	
Transmitter Spurious Emissions		0.2-1GHz ±5.56dB	
		1-6GHz ±3.84dB	
		6-26GHz ±3.92dB	

SEMT-1075Communication TesterRohde & SchwarzCMW5001486502022-03-222023-03-21SEMT-1073GSM TesterRohde & SchwarzCMU200114403 $202-03-22$ $2023-03-21$ SEMT-1074Spectrum AnalyzerAgilentB4407B $MY4144040$ 0 $202-03-22$ $2023-03-21$ SEMT-1075Spectrum AnalyzerAgilentM9020AUS47140102 $202-03-22$ $2023-03-21$ SMET-1313Spectrum AnalyzerAgilentM9020A $MY5432054$ 8 $202-03-22$ $2023-03-21$ SMET-1081Spectrum GeneratorAgilentM9020A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1081Vector Signal GeneratorAgilentMS182A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1081Vector Signal GeneratorAgilentMS182A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1081Vector Signal GeneratorAgilentMS182A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1082Vector Signal GeneratorAgilentIS182A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1082Vector Signal GeneratorAgilentIS182A $MY4707020$ 2 $202-03-22$ $2023-03-21$ SEMT-1082CableZheng DIZH0-2-921-2-921-42 $1/4$ $1/4$ $1/4$ SEMT-1082CableZheng DIZH0-2-921-2-921-42 $1/4$ $1/4$ SEMT-1093CableZheng DIIM0RFC $1/4$	No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
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SEMT-1063 GSM Tester Schwarz CMU200 114403 2022-03-22 2023-03-21 SEMT-1072 Spectrum Analyzer Agilent E4407B MY4144040 0 2022-03-22 2023-03-24 SEMT-1079 Spectrum Analyzer Agilent N9020A US47140102 2022-03-22 2023-03-21 SMET-1313 Spectrum Analyzer Agilent N9020A MY5432054 8 2022-03-22 2023-03-21 SEMT-1080 Signal Generator Agilent 83752A 3610A01453 2022-03-22 2023-03-21 SEMT-1081 Vector Signal Generator Agilent N5182A MY4707000 2 2022-03-22 2023-03-21 SEMT-1028 Power Divider Weinschel 1506A PM204 2022-03-22 2023-03-21 SEMT-002 Cable Zheng DI ZT40-2.921-2.921-64 / / / SEMT-0002 Cable Zheng DI ZT40-2.921-2.921-65 / / / / SEMT-0003 Cable Zheng DI IM0RFC / / /	SEM1-1075	Tester	Schwarz	CIVI W 500	148030	2022-05-22	2025-05-21
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SMET-1313AnalyzerAgilentN9020A82022-03-222023-03-21SEMT-1080Signal GeneratorAgilent83752A3610A014532022-03-222023-03-21SEMT-1081Vector Signal GeneratorAgilentN5182AMY4707020 22022-03-222023-03-21SEMT-1028Power DividerWeinschel1506APM2042022-03-222023-03-21SEMT-0001CableZheng DILL142-07-07-10M(A)/////SEMT-0002CableZheng DIZT40-2.921-2.921-2.91//////SEMT-0003CableZheng DI2M0RFC//////SEMT-0004CableZheng DI1M0RFC//////SEMT-0005CableZheng DI1M0RFC//////SEMT-0006CableZheng DI1M0RFC//////SEMT-0005CableZheng DI1M0RFC//////SEMT-1006CableZheng DI1M0RFC//////SEMT-1007SpectrumRohde & ReceiverSchwarzFSP30836079/0352022-03-222023-03-21SEMT-1008AmplifierAgilent8447F3113A067172021-03-202023-03-10SEMT-1007Loop AntennaSchwarzFSP309163-3332021-03-202023-03-10SEMT-108Broadband AntennaSchwarzFSP30836079/0352022-03-222023-03-21SEMT-108Broadband A	SEM1-1079	Analyzer	Agnent	N9020A	0547140102	2022-03-22	2023-03-21
Analyzer $^{\circ}$ $^$	SMET 1313	Spectrum	Agilent	N0020A	MY5432054	2022 03 22	2023 03 21
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C004CableZheng DI2M0RFC//SEMT-C005CableZheng DI1M0RFC/////SEMT-C006CableZheng DI1M0RFC//////SEMT-C006CableZheng DI1M0RFC//////SEMT-C006CableZheng DI1M0RFC//////SEMT-C006CableZheng DI1M0RFC//////SEMT-1007SpectrumRohde & ReceiverFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1008AmplifierAgilent8447F3113A06717 $2022-03-22$ $2023-03-21$ SEMT-1069Loop AntennaSchwarz beckFMZB 15169773 $2021-03-20$ $2023-03-19$ SEMT-1068Broadband AntennaSchwarz beckFMZB 15169773 $2021-03-20$ $2023-03-19$ SEMT-1078Broadband AntennaSchwarz beckFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1031Spectrum AnalyzerRohde & SchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI Test ReceiverRohde & SchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1043AmplifierC&DPAP-1G182002 $2022-03-22$ $2023-03-21$	SEMT COO2	Cabla	Zhang DI	ZT40-2.92J-2.92J-2.5	1	/	/
SEMT-C005CableZheng DI1M0RFC///SEMT-C006CableZheng DI1M0RFC///SEMT-C006CableZheng DI1M0RFC///SEMT-C006CableZheng DI1M0RFC///SEMT-C006CableZheng DI1M0RFC///SEMT-C006Selow 1GHzSelow 1GHz////SEMT-1031SpectrumRohde & AnalyzerFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1008AmplifierAgilent8447F3113A067172022-01-072023-01-06SEMT-1068Broadband AntennaSchwarz beckFMZB 151697732021-03-202023-03-19SEMT-1068Broadband AntennaSchwarz beckVULB91639163-333 $2021-03-20$ 2023-03-19SEMT-1078Spectrum AnalyzerRohde & SchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI Test ReceiverRohde & SchwarzESVB $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007Spectrum AnalyzerRohde & SchwarzESVB $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI Test ReceiverRohde & SchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1007	SEIVIT-COUS	Cable	Zneng Di	Μ	/	/	/
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
$ \begin{array}{ $	SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-1031AnalyzerSchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1008AmplifierAgilent $8447F$ $3113A06717$ $2022-03-22$ $2023-03-21$ SEMT-1008AmplifierAgilent $8447F$ $3113A06717$ $2022-03-22$ $2023-03-21$ SEMT-1068Loop AntennaSchwarz beckFMZB 1516 9773 $2021-03-20$ $2023-03-21$ SEMT-1068Broadband AntennaSchwarz beckVULB9163 $9163-333$ $2021-03-20$ $2023-03-21$ SChamber A: Above 1GHzSEMT-1031SpectrumRohde & AnalyzerFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1043AmplifierC&DPAP-1G18 2002 $2022-03-22$ $2023-03-21$	Chamber A	A: Below 1GHz					
AnalyzerSchwarzImage: Constraint of the state of	SEMT 1021	Spectrum	Rohde &	ESD20	926070/025	2022 02 22	2022 02 21
SEMT-1007ReceiverSchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1008AmplifierAgilent $8447F$ $3113A06717$ $2022-01-07$ $2023-01-06$ SEMT-1069Loop AntennaSchwarz beckFMZB 1516 9773 $2021-03-20$ $2023-03-19$ SEMT-1068Broadband AntennaSchwarz beckFMZB 1516 9773 $2021-03-20$ $2023-03-19$ SEMT-1068Broadband AntennaSchwarz beckVULB9163 $9163-333$ $2021-03-20$ $2023-03-19$ SEMT-1031SpectrumRohde & AnalyzerSchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI TestRohde & SchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1043AmplifierC&DPAP-1G18 2002 $2022-03-22$ $2023-03-21$	SEM1-1051	Analyzer	Schwarz	F3F30	8300/9/033	2022-05-22	2025-05-21
ReceiverSchwarz	SEMT 1007	EMI Test	Rohde &	EGVD	925471/005	2022 02 22	2022 02 21
SEMT-1069Loop AntennaSchwarz beckFMZB 151697732021-03-202023-03-19SEMT-1068Broadband AntennaSchwarz beckVULB91639163-3332021-03-202023-03-19SEMT-1068AntennaSchwarz beckVULB91639163-3332021-03-202023-03-19SEMT-1031Spectrum AnalyzerRohde & SchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI Test ReceiverRohde & SchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1043AmplifierC&DPAP-1G1820022022-03-22 $2023-03-21$	SEM1-1007	Receiver	Schwarz	ESVD	8234/1/003	2022-05-22	2025-05-21
SEMT-1068Broadband AntennaSchwarz beckVULB91639163-333 $2021-03-20$ $2023-03-19$ \square Chamber A: Above 1GHzSEMT-1031Spectrum AnalyzerRohde & SchwarzFSP30 $836079/035$ $2022-03-22$ $2023-03-21$ SEMT-1007EMI Test ReceiverRohde & SchwarzESVB $825471/005$ $2022-03-22$ $2023-03-21$ SEMT-1043AmplifierC&DPAP-1G18 2002 $2022-03-22$ $2023-03-21$	SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
$ \begin{array}{ c c c c c c c c } SEMT-1068 & Antenna & Schwarz beck & VULB9163 & 9163-333 & 2021-03-20 & 2023-03-19 \\ \hline \hline \mbox{Antenna} & Antenna & VULB9163 & 9163-333 & 2021-03-20 & 2023-03-19 \\ \hline \mbox{Chamber A: Above 1GHz} & Spectrum & Rohde & & & \\ \hline \mbox{SEMT-1031} & Spectrum & Rohde & & & & & & & & & & & & & & & & & & &$	SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
$ \begin{array}{ $	SEMT-1068		Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Chamber A						
SEMT-1031 Analyzer Schwarz FSP30 836079/035 2022-03-22 2023-03-21 SEMT-1007 EMI Test Rohde & Receiver Schwarz ESVB 825471/005 2022-03-22 2023-03-21 SEMT-1043 Amplifier C&D PAP-1G18 2002 2022-03-22 2023-03-21			Rohde &				
SEMT-1007 EMI Test Receiver Rohde & Schwarz ESVB 825471/005 2022-03-22 2023-03-21 SEMT-1043 Amplifier C&D PAP-1G18 2002 2022-03-22 2023-03-21	SEMT-1031	-		FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007 Receiver Schwarz ESVB 825471/005 2022-03-22 2023-03-21 SEMT-1043 Amplifier C&D PAP-1G18 2002 2022-03-22 2023-03-21		-					
SEMT-1043 Amplifier C&D PAP-1G18 2002 2022-03-22 2023-03-21	SEMT-1007			ESVB	825471/005	2022-03-22	2023-03-21
	SEMT-1043			PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042 Horn Antenna ETS 3117 00086197 2021-03-19 2023-03-18	SEMT-1042	Horn Antenna	ETS	3117	00086197	2022-03-22	2023-03-18
SEMT-1042 Hom Antenna Schwarzbeck BBHA 9170 BBHA91705 2021-03-17 2023-04-27							

1.7 Test Equipment List and Details

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				82		
SEMT-1216	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2022-03-25	2023-03-24
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
Chamber B	B:Below 1GHz	· · · · ·				
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
Chamber C	C:Below 1GHz					
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
Conducted	Room 1#	<u> </u>		L	L	1
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
Conducted	Room 2#					
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

Software List								
DescriptionManufacturerModelVersion								
EMI Test Software	Found	EZ EMC	DA 02A1					
(Radiated Emission)*	Farad	EZ-EMC	RA-03A1					
EMI Test Software			DA 0241					
(Conducted Emission)*	Farad	EZ-EMC	RA-03A1					

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	N/A
§15.209(a)	Radiated Spurious Emissions	Compliant
§15.247(a)(1)(iii)	Quantity of Hopping Channel	N/A
§15.247(a)(1)	Channel Separation	N/A
§15.247(a)(1)(iii)	Time of Occupancy (Dwell time)	N/A
§15.247(a)	20dB Bandwidth	N/A
§15.247(b)(1)	RF Power Output	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	N/A
§15.247(a)(1)	Frequency Hopping Sequence	N/A
§15.247(g), (h)	Frequency Hopping System	Compliant

N/A: Not applicable.

C2PC: Note: Report is for C2PC only. The test data includes Radiated Spurious Emissions and RF output power. Those not tested mark with N/A (not effected by the C2PC).

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has a PCB Antenna, fulfill the requirement of this section.

4. Frequency Hopping System Requirements

4.1 Standard Applicable

According to FCC Part 15.247(a)(1), the system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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.

(g) 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.

(h) 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.

4.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1MHz each; centred from 2402 to 2480MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a Bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for 558074 D01 15.247 Meas Guidance v05r02 and FCC Part 15.247 rule.

4.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

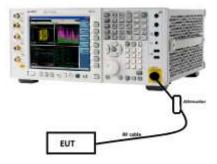
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

5. RF Output Power

5.1 Standard Applicable

According to 15.247(b)(1), for frequency hopping systems operating in the 2400–2483.5MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5MHz band: 0.125 watts.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to KDB 558074 D01 v05r02 Subclause 9 and ANSI C63.10-2013 section 7.8.5, the output power test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

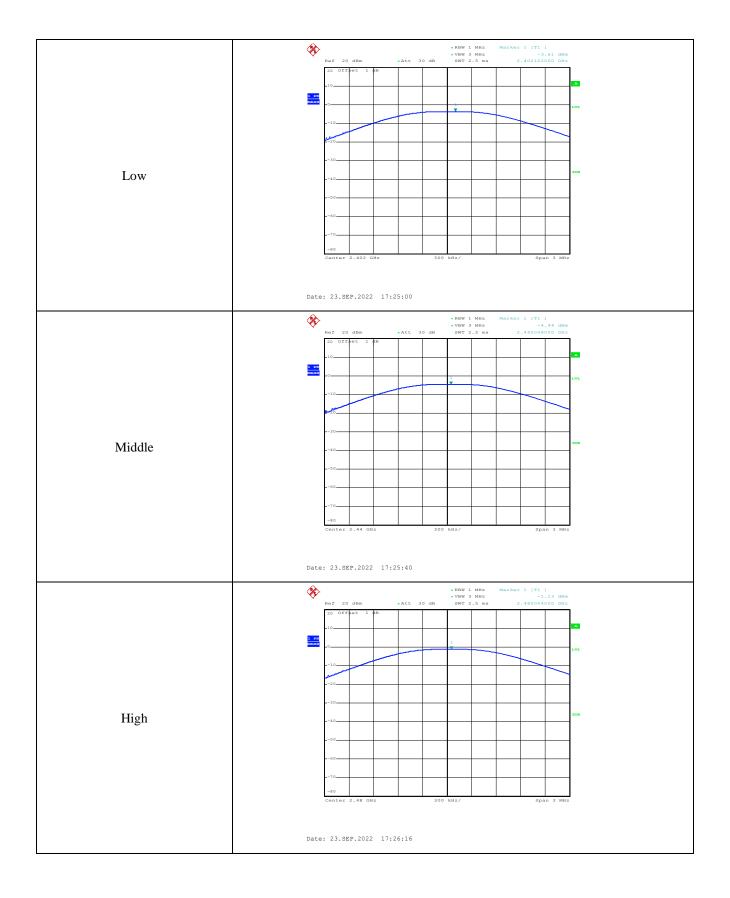
- 1) Span: Approximately five times the 20dB bandwidth, centered on a hopping channel.
- 2) RBW > 20dB bandwidth of the emission being measured.
- 3) VBW \geq RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

5.4 Summary of Test Results/Plots

RF Output Power									
Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result					
	Low	-3.61							
GFSK	Middle	-4.44	30.00	Pass					
	High	-1.13							



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6. Field Strength of Spurious Emissions

6.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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 §15.209(a), must also comply with the radiated emission limits specified in §15.209(a).

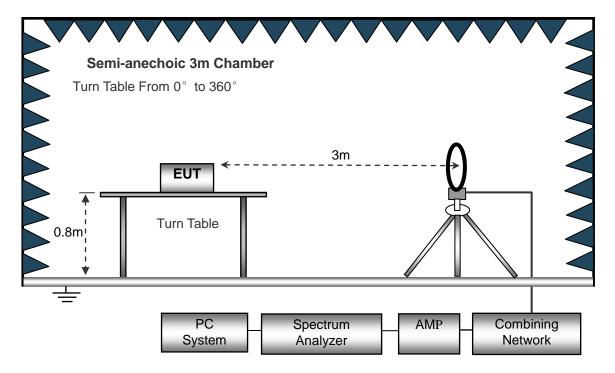
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

6.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

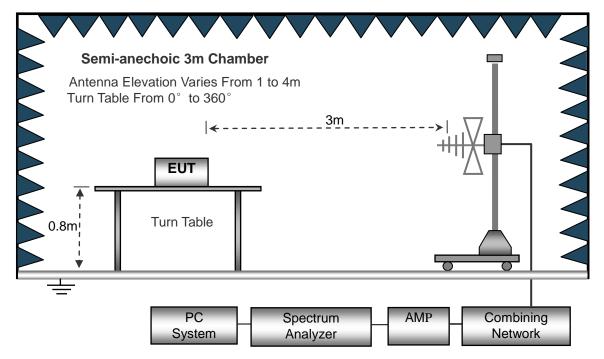
The test setup for emission measurement below 30MHz.



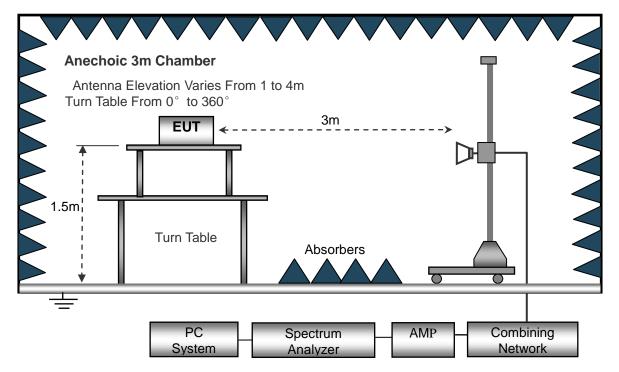
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The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency : Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time=Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

6.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

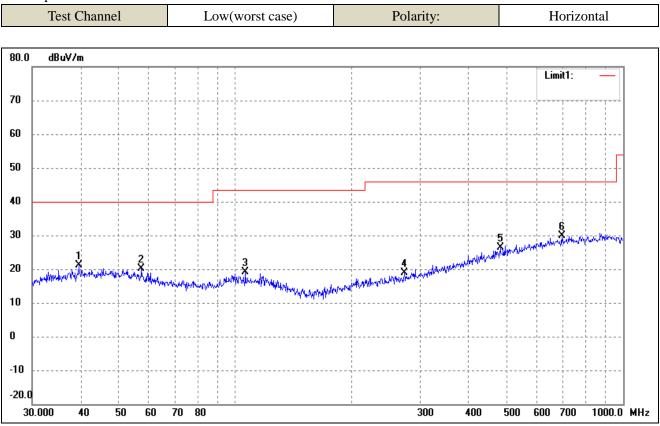
Corr. Ampl. = Indicated Reading + Correct Correct = Ant. Factor + Cable Loss – Ampl. Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - FCC Part 15 Limit

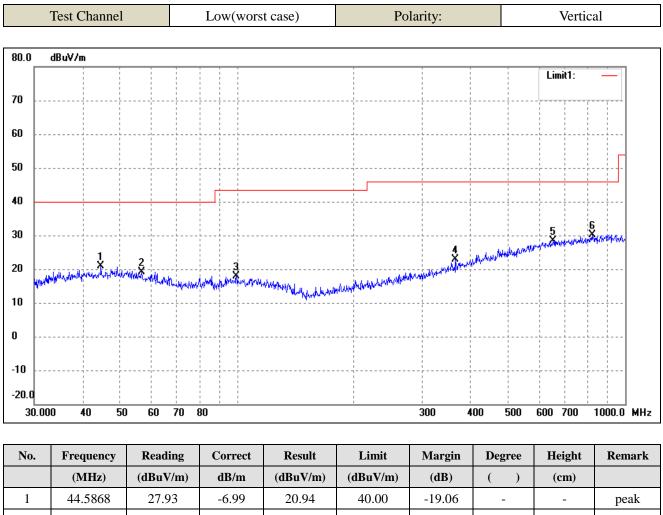
6.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported. All test modes (different data rate and different modulation) are performed, but only the worst case (GFSK) is recorded in this report.



Spurious Emissions Below 1GHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.5757	28.36	-7.11	21.25	40.00	-18.75	-	-	peak
2	57.3923	28.19	-8.05	20.14	40.00	-19.86	-	-	peak
3	106.3850	27.85	-8.82	19.03	43.50	-24.47	-	-	peak
4	273.2341	26.53	-7.67	18.86	46.00	-27.14	-	-	peak
5	482.2156	28.01	-1.75	26.26	46.00	-19.74	-	-	peak
6	694.4174	28.44	1.37	29.81	46.00	-16.19	-	-	peak



2 56.7917 27.04 -7.95 19.09 40.00 -20.91 - - peak 3 99.5281 26.70 -8.81 17.89 43.50 -25.61 - - peak 4 365.5391 27.71 -4.93 22.78 46.00 -23.22 - - peak 5 651.9417 27.39 0.94 28.33 46.00 -17.67 - peak 6 821.7104 28.00 2.22 30.22 46.00 -15.78 - - peak											-
4 365.5391 27.71 -4.93 22.78 46.00 -23.22 - - peak 5 651.9417 27.39 0.94 28.33 46.00 -17.67 - peak	2	2	56.7917	27.04	-7.95	19.09	40.00	-20.91	-	-	peak
5 651.9417 27.39 0.94 28.33 46.00 -17.67 - peak		3	99.5281	26.70	-8.81	17.89	43.50	-25.61	-	-	peak
	4	4	365.5391	27.71	-4.93	22.78	46.00	-23.22	-	-	peak
6 8217104 2800 2.22 30.22 46.00 -15.78 peak	4	5	651.9417	27.39	0.94	28.33	46.00	-17.67	-	-	peak
	e	5	821.7104	28.00	2.22	30.22	46.00	-15.78	-	-	peak

Remark: '-'Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2402MHz			
4804	59.33	-6.13	53.20	74	-20.80	Н	РК
4804	43.69	-6.13	37.56	54	-16.44	Н	AV
7206	58.28	-1.64	56.64	74	-17.36	Н	РК
7206	41.23	-1.64	39.59	54	-14.41	Н	AV
4804	57.97	-6.13	51.84	74	-22.16	V	РК
4804	40.81	-6.13	34.68	54	-19.32	V	AV
7206	54.97	-1.64	53.33	74	-20.67	V	РК
7206	40.85	-1.64	39.21	54	-14.79	V	AV
			Middle Chan	nel-2441MHz			
4882	60.12	-5.93	54.19	74	-19.81	Н	РК
4882	40.29	-5.93	34.36	54	-19.64	Н	AV
7323	59.55	-1.58	57.97	74	-16.03	Н	РК
7323	38.84	-1.58	37.26	54	-16.74	Н	AV
4882	59.99	-5.93	54.06	74	-19.94	V	РК
4882	41.86	-5.93	35.93	54	-18.07	V	AV
7323	57.98	-1.58	56.40	74	-17.60	V	РК
7323	38.12	-1.58	36.54	54	-17.46	V	AV
			High Chann	el-2480MHz			·
4960	59.77	-5.71	54.06	74	-19.94	Н	РК
4960	41.36	-5.71	35.65	54	-18.35	Н	AV
7440	60.10	-1.52	58.58	74	-15.42	Н	РК
7440	40.72	-1.52	39.20	54	-14.80	Н	AV
4960	60.26	-5.71	54.55	74	-19.45	V	РК
4960	38.89	-5.71	33.18	54	-20.82	V	AV
7440	60.93	-1.52	59.41	74	-14.59	V	РК
7440	38.75	-1.52	37.23	54	-16.77	V	AV

Note: 1.Testing is carried out with frequency rang 9kHz 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. Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

APPENDIX PHOTOGRAPHS

Please refer to "ANNEX"

***** END OF REPORT *****