

Shenzhen Huatongwei International Inspection Co., Ltd.

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TEST REPORT

FCC ID: U5W-BTS-007

Applicant's name: Primo International Co., Ltd.

Room 2509, Ginza International Building 7008 Shennan Road, Address:

Shenzhen, China

Manufacturer....: Primo International Co., Ltd.

Room 2509, Ginza International Building 7008 Shennan Road, Address....:

Shenzhen, China

Test item description: True wireless earphone

Trade Mark....::

Model/Type reference: BTS-007

Listed Model(s)....:

Standard....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample..... Oct. 17, 2017

Date of testing..... Oct. 18, 2017- Oct. 30, 2017

Date of issue....: Oct. 30, 2017

Result....: **PASS**

Compiled by

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1. TEST STANDARDS ANDTEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

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

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

1.2. Report version

Version No.	Date of issue	Description
00	Oct. 30, 2017	Original

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emissions	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	Pass
Restricted band	15.247(d)/15.205	Pass
Radiated Emissions	15.247(d)/15.209	Pass

Note: The measurement uncertainty is not included in the test result. $\ensuremath{\text{N/A}}$ means not applicable.

3. **SUMMARY**

3.1. Client Information

Applicant:	Primo International Co., Ltd.	
Address:	Room 2509, Ginza International Building 7008 Shennan Road, Shenzhen, China	
Manufacturer:	Primo International Co., Ltd.	
Address:	Room 2509, Ginza International Building 7008 Shennan Road, Shenzhen,China	

3.2. Product Description

Name of EUT	True wireless earphone
Trade Mark:	-
Model No.:	BTS-007
Listed Model(s):	-
Power supply:	DC 5V for USB port and DC 3.7V for internal battery
Adapter information:	-
Software Version:	HES014_MSD-M015_L_V1.0W
Hardware Version:	HES14_M015_V1.0W_M015_D1_170825_01_SVN25433_(V1_7)
Bluetooth	
Version:	Supported BT4.2+EDR
Modulation:	GFSK, π/4DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	Internal Antenna
Antenna gain:	0.5dBi

3.3. Operation state

> Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
0	2402
1	2403
:	:
39	2441
i i	:
77	2479
78	2480

> Test mode

For	RF	test	item	c
ı Oı	171	ıcəı	116111	

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth under large package sizes transmission.

For RF test axis

EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	Manufacturer :	/
	Model No.:	/
	Manufacturer:	/
	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. Test Environment

4.1. Address of the test laboratory

 $Laboratory: Shenzhen\ Huatongwei\ International\ Inspection\ Co.,\ Ltd.$

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection 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 maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to ISO/IEC 17025. Further more, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emissions 9KHz-40 GHz	2.20 dB	(1)
Conducted Emissions 9KHz-30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

Line Conducted Emissions (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	R&S	ESCI	101247	2016/11/13
2	Artificial Mains	Shwarzbeck	NNLK 8121	573	2016/11/13
3	Pulse Limiter	R&S	ESH3-Z2	101488	2016/11/13
4	Test Software	R&S	ES-K1	N/A	N/A
5	Test cable	ENVIROFLEX	3651	1101902	2016/11/13

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emissions / Spurious RF Conducted Emissions Manufacturer Serial No. Item Test Equipment Model No. Last Cal **FSP** Spectrum Analyzer Rohde&Schwarz 1164.4391.40 2016/11/13 2 **Power Meter** Anritsu ML2480B 100798 2016/11/13 3 Power Sensor Anritsu MA2411B 100258 2016/11/13 **FARPU** 4 Test cable MCX-J N/A 2016/11/13 Temporary antenna 5 D-LENP NJ-SMAK N/A 2016/11/13 connector

NOTE: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Radia	Radiated Emissions								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.				
1	EMI Test Receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13				
2	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/ 0017	N/A				
3	EMI Test Software	Rohde&Schwarz	ESK1	N/A	N/A				
4	Loop Antenna	Rohde&Schwarz	HZ-9	838622\013	2016/11/13				
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13				
6	Horn Antenna	ShwarzBeck	9120D	1011	2016/11/13				
7	Broadband Horn Antenna	Shwarzbeck	BBHA9170	BBHA917047 2	2016/11/13				
8	Preamplifier	Shwarzbeck	BBV9742	9742-196	2016/11/13				
9	Broadband Preamplifer	Shwarzbeck	BBV 9721	9721-102	2016/11/13				
10	Broadband Preamplifer	Shwarzbeck	BBV 9718	9718-247	2016/11/13				
11	Turn Table	MATURO	TT2.0	/	N/A				
12	Antenna Mast	MATURO	TAM-4.0-P	/	N/A				
13	EMI Test Software	Audix	E3	N/A	N/A				
14	Test Software	R&S	ES-K1	N/A	N/A				
15	Test cable	Siva Cables Italy	RG 58A/U	W14.02	2016/11/13				

The Cal.Interval was one year

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

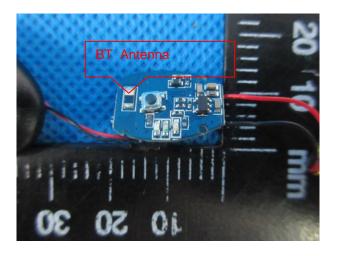
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

TEST RESULTS

oxtime Passed	☐ Not Applicable
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The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emission (AC Main)

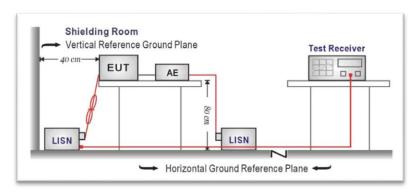
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Fraguency range (MHz)	Limit (dBuV)				
Frequency range (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 frequency.

TEST CONFIGURATION



TEST PROCEDURE

- The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances tabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

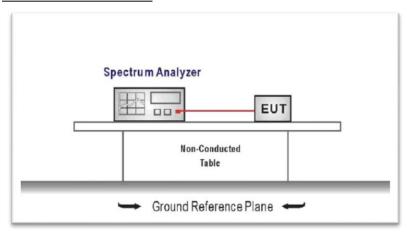
TEST RESULTS

5.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:

 Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW≥ the 20 dB bandwidth of the emission being measured, VBW≥RBW

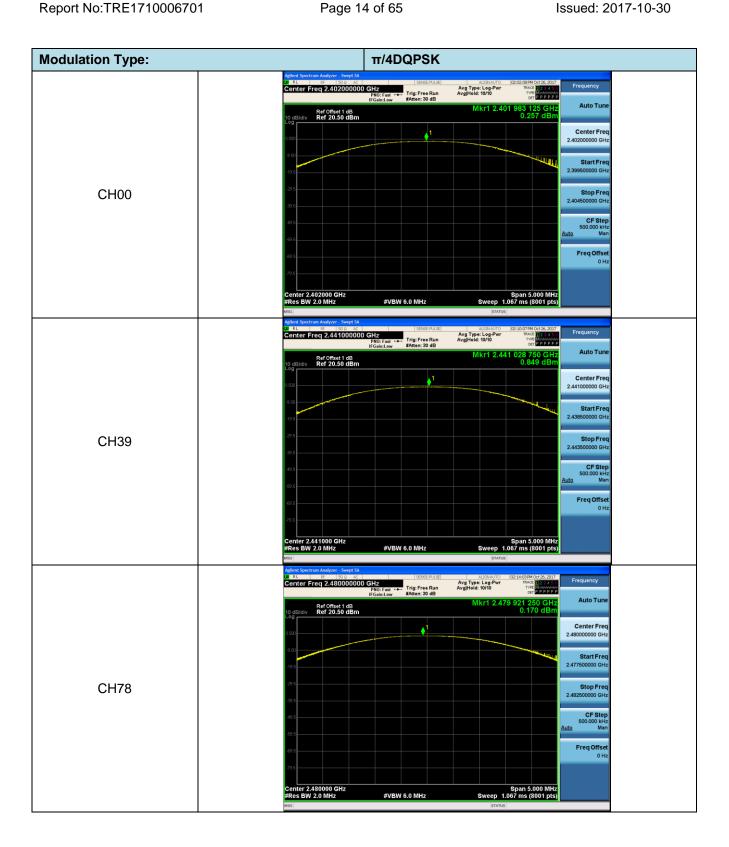
 Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

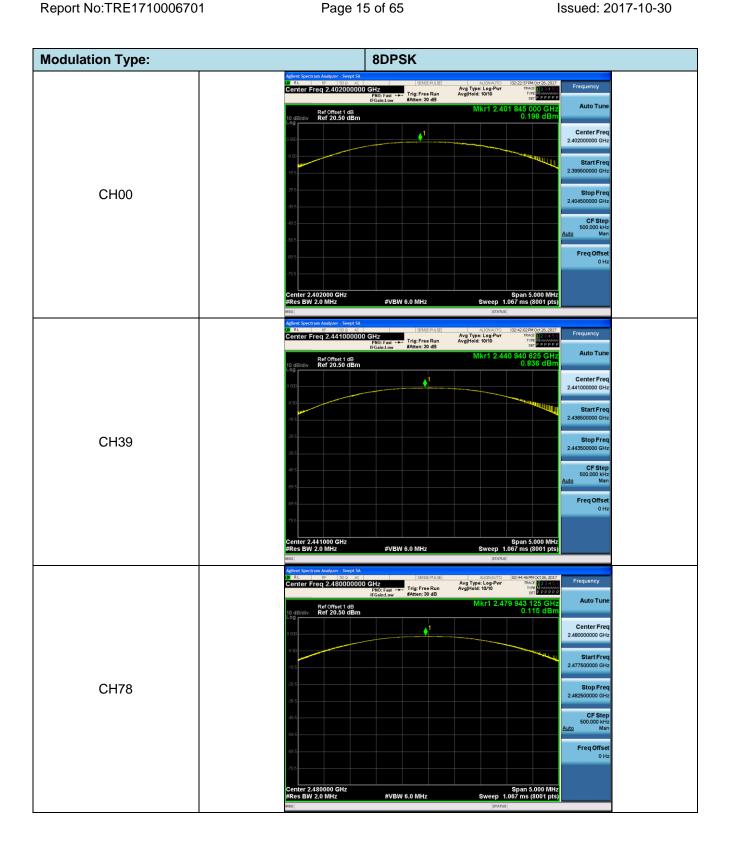
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result	
	00	0.125			
GFSK	39	0.755	30.00	Pass	
	78	0.099			
	00	0.257			
π/4DQPSK	X 39 78	0.849	21.00	Pass	
		0.170			
	00	0.198			
8DPSK	39	0.836	21.00	Pass	
	78	0.115			



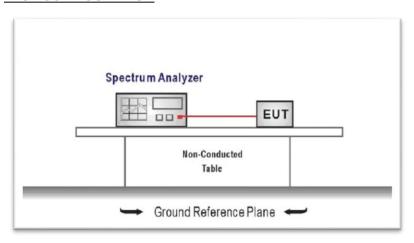


5.4. 20dB Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW≥1% of the 20 dB bandwidth, VBW≥RBW Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Modulation type	Channel	20dB Bandwidth (MHz)	Limit (MHz)	Result
	00	1.030		
GFSK	39	1.030	-	Pass
	78	0.9990		
	00	1.199	-	Pass
π/4DQPSK	4DQPSK 39 78	1.189		
		1.206		
	00	1.246		
8DPSK	39	1.241	-	Pass
	78	1.254		

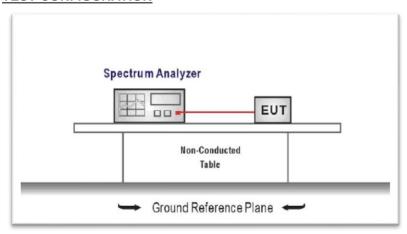
5.5. Carrier Frequencies Separation

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels RBW≥1% of the span, VBW≥RBW

Sweep = auto, Detector function = peak, Trace = max hold

4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Modulation type	Channel Carrier Frequencies Separation (MHz)		Limit (MHz)	Result	
GFSK	39	0.998	≥0.932	Pass	
π/4DQPSK	39	0.996	≥0.861	Pass	
8DPSK	39	1.014	≥0.854	Pass	



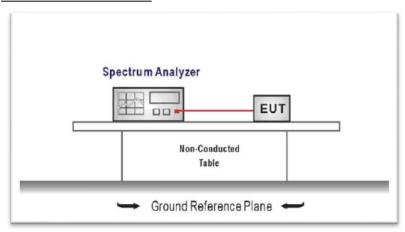
5.6. Hopping Channel Number

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

TEST CONFIGURATION



TEST PROCEDURE

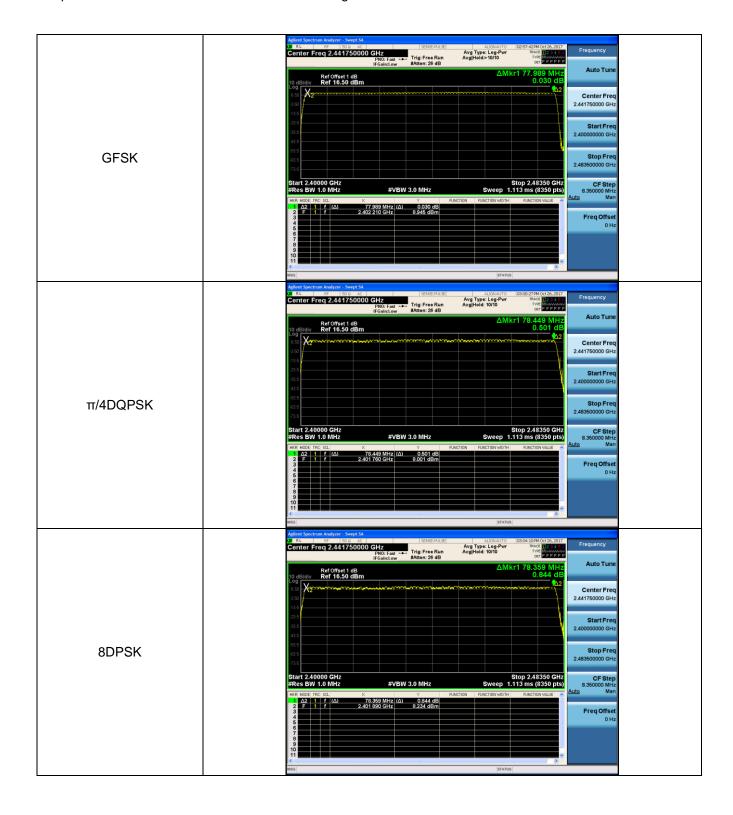
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:
 - Span = the frequency band of operation
 - RBW≥1% of the span, VBW≥RBW
 - Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Modulation type	Channel number	Limit	Result
GFSK	79		
π/4DQPSK	79	15	Pass
8DPSK	79		



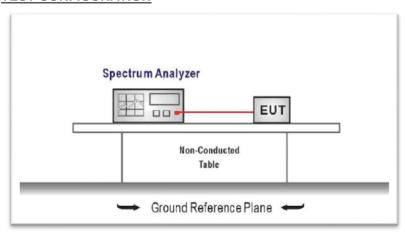
5.7. Dwell Time

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings:
 Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW≥RBW
 Sweep = as necessary to capture the entire dwell time per hopping channel,
 Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

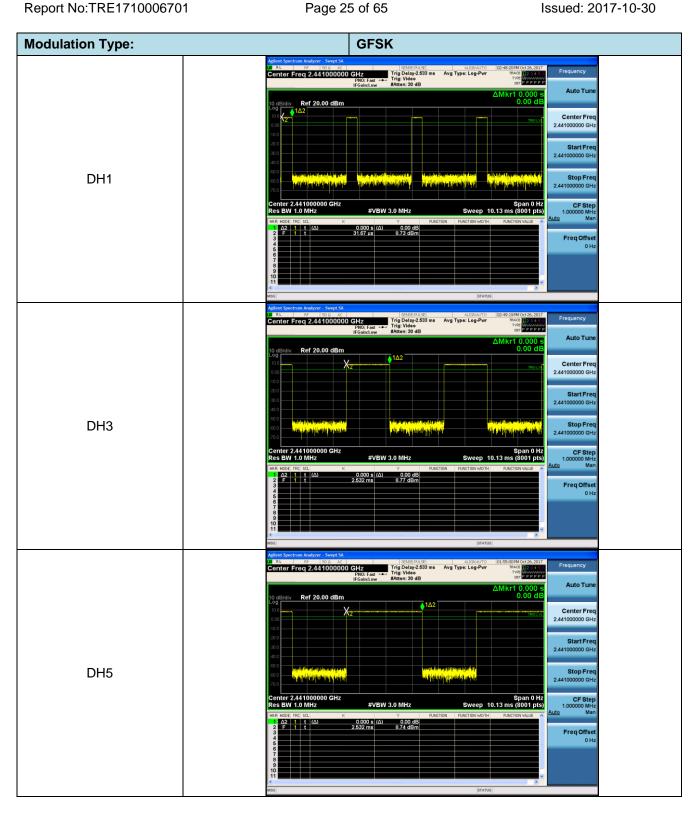
Please refer to the clause 3.3

TEST RESULTS

Modulation type	Channel	Dwell time (Second)	Limit (Second)	Result	
	DH1	0.131			
GFSK	DH3	0.267	0.40	Pass	
	DH5	0.310			
	2-DH1	0.134		Pass	
π/4DQPSK	2-DH3	0.267	0.40		
	2-DH5	0.312			
	3-DH1	0.134			
8DPSK	3-DH3	0.267	0.40	Pass	
	3-DH5	0.312			

Note:

- 1. We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- 2. Dwell time=Pulse time (ms) \times (1600 \div 2 \div 79) \times 31.6 Second for DH1, 2-DH1, 3-DH1 Dwell time=Pulse time (ms) \times (1600 \div 4 \div 79) \times 31.6 Second for DH3, 2-DH3, 3-DH3 Dwell time=Pulse time (ms) \times (1600 \div 6 \div 79) \times 31.6 Second for DH5, 2-DH5, 3-DH5



5.8. Pseudorandom Frequency Hopping Sequence

LIMIT

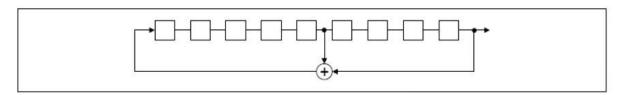
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier fre-quencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Al-ternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier fre-quencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo ran-domly ordered list of hopping fre-quencies. Each frequency must be used equally on the average by each trans-mitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their cor-responding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

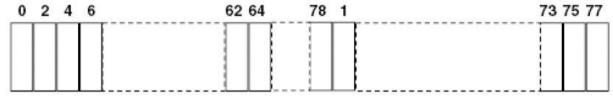
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the friststage. The sequence begins with the frist one of 9 consecutive ones, for example: the 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 explame of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

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

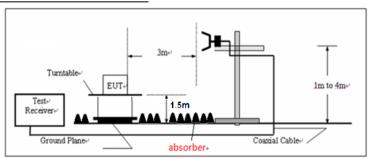
5.9. Restricted band (radiated)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, 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)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz Peak detector for Peak value RBW=1MHz, VBW=10Hz Peak detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor
- Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.

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BT-EDR	BT-EDR								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	34.38	28.05	6.62	37.65	31.40	74.00	-42.60	Horizontal	Peak
2390.03	37.63	27.65	6.75	37.87	34.16	74.00	-39.84	Horizontal	Peak
2310.00	32.88	28.05	6.62	37.65	29.90	74.00	-44.10	Vertical	Peak
2390.03	39.53	27.65	6.75	37.87	36.06	74.00	-37.94	Vertical	Peak
2310.00	22.35	28.05	6.62	37.65	19.37	54.00	-34.63	Horizontal	Average
2390.03	22.01	27.65	6.75	37.87	18.54	54.00	-35.46	Horizontal	Average
2310.00	22.40	28.05	6.62	37.65	19.42	54.00	-34.58	Vertical	Average
2390.03	22.48	27.65	6.75	37.87	19.01	54.00	-34.99	Vertical	Average

BT-EDR						CH78			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	34.74	27.26	6.83	37.87	30.96	74.00	-43.04	Horizontal	Peak
2491.22	52.40	27.23	6.83	37.87	48.59	74.00	-25.41	Horizontal	Peak
2500.00	34.08	27.20	6.84	37.87	30.25	74.00	-43.75	Horizontal	Peak
2483.50	40.74	27.26	6.83	37.87	36.96	74.00	-37.04	Vertical	Peak
2494.60	63.43	27.22	6.84	37.87	59.62	74.00	-14.38	Vertical	Peak
2500.00	40.14	27.20	6.84	37.87	36.31	74.00	-37.69	Vertical	Peak
2483.50	23.40	27.26	6.83	37.87	19.62	54.00	-34.38	Horizontal	Average
2500.00	22.19	27.20	6.84	37.87	18.36	54.00	-35.64	Horizontal	Average
2483.50	24.81	27.26	6.83	37.87	21.03	54.00	-32.97	Vertical	Average
2500.00	21.46	27.20	6.84	37.87	17.63	54.00	-36.37	Vertical	Average

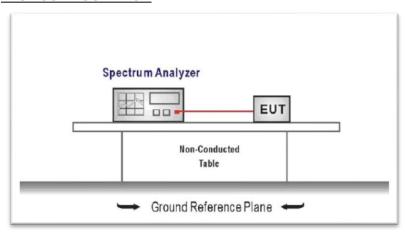
5.10. Bandedge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings:
 RBW= 100 KHz, VBW≥RBW
 - Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

