FCC Test Report

Report No.: AGC00931150305FE03

FCC ID	:	ОҮС-НХР920
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bluetooth speaker
BRAND NAME	:	N/A
MODEL NAME	:	HX-P920
CLIENT	:	Dongguan Taide Industrial Co., Ltd.
DATE OF ISSUE	:	Apr.03,2015
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15 Rules
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr.03,2015	Valid	Original Report

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Applicant	Dongguan Taide Industrial Co., Ltd.	
Address	Taide Technology Park, Jinfenghuang Industrial Distrial, Fenggang Town,Dongguan City,China	
Manufacturer	Dongguan Taide Industrial Co., Ltd.	
Address	Taide Technology Park, Jinfenghuang Industrial Distrial, Fenggang Town,Dongguan City,China	
Product Designation	Bluetooth speaker	
Brand Name	N/A	
Test Model	НХ-Р920	
Date of test	Mar.29,2015 to Apr.01,2015	
Deviation	None	
Condition of Test Sample	Normal	
Report Template	AGCRT-US-BR/RF	

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Shenzhen STS Test Services Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	2.58dBm(Max)	
Bluetooth Version	V4.0	
Modulation	GFSK, π /4-DQPSK, 8DPSK GFSK	
Number of channels	79 for traditional BT 40 for BLE	
Hardware Version	V1.0	
Software Version	V1.0	
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)	
Antenna Gain	0dBi	
Power Supply	DC7.4V	
Note: The USB port only used for charging and can't be used to transfer data with PC.		

2.2. TABLE OF CARRIER FREQUENCYS

Traditional Bluetooth channel List

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
2400~2483.5MHZ	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions, radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Normal operation (BT)
Noto:	

Note:

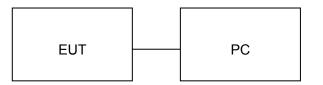
1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

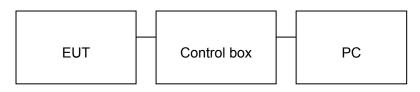
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth speaker	N/A	HX-P920	EUT
2	PC	Dell	A1465	A.E
3	Control box	N/A	N/A	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	Compliant

6. TEST FACILITY

Site	Shenzhen STS Test Services Co., Ltd.	
Location	1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.	
FCC Registration No.	842334	
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009.	

7 ALL TEST EQUIPMENT LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.06	2015.06.06
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	102086	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.06	2015.06.06
Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.06	2015.06.06
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26

8. RADIATED EMISSION

8.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics
	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Stren	ngths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/m (Peal	k) 54.0 dB(µV)/m (Average)
Remark: (1) Emission I	evel dB µ V = 20 log Emissio	n level µV/m	
(2) The smalle	er limit shall apply at the cros	s point between two frequen	cy bands.
(3) Distance is	s the distance in meters betw	veen the measuring instrume	nt, antenna and the closest

point of any part of the device or system.

8.2. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

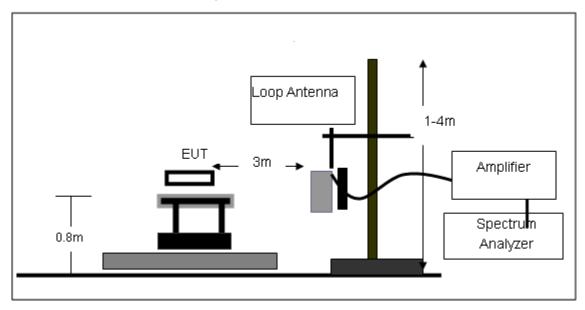
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting				
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP				
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP				
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP				
Start ~Stop Frequency	1GHz~26.5GHz				
	1MHz/1MHz for Peak, 1MHz/10Hz for Average				

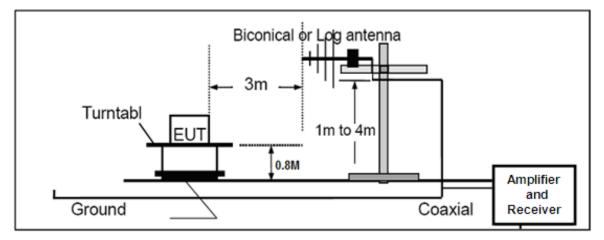
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

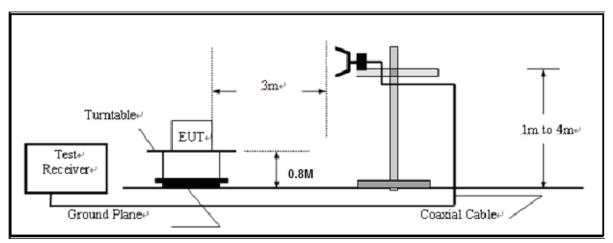
8.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz

8.4. TEST RESULT(Worst modulation:GFSK)

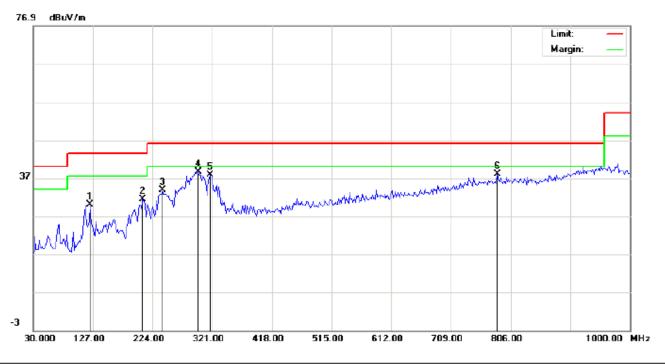
FOR TRADITIONAL BLUETOOTH

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

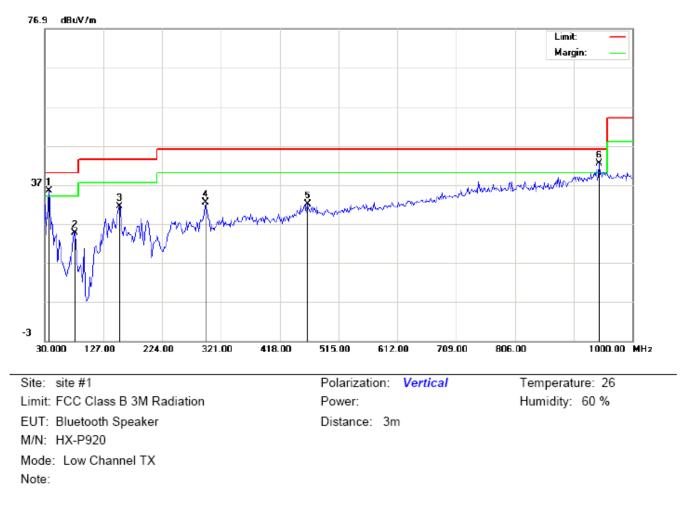


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Bluetooth Speaker M/N: HX-P920 Mode: Low Channel TX Note: Polarization: *Horizontal* Power:

Distance: 3m

Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBu∨/m	dB		cm	degree	
1		122.1500	17.79	12.22	30.01	43.50	-13.49	peak			
2		207.8333	19.04	12.30	31.34	43.50	-12.16	peak			
3		240.1667	20.21	13.53	33.74	46.00	-12.26	peak			
4	*	298.3667	23.30	15.36	38.66	46.00	-7.34	peak			
5		317.7667	21.17	16.59	37.76	46.00	-8.24	peak			
6		784.9833	10.84	27.11	37.95	46.00	-8.05	peak			



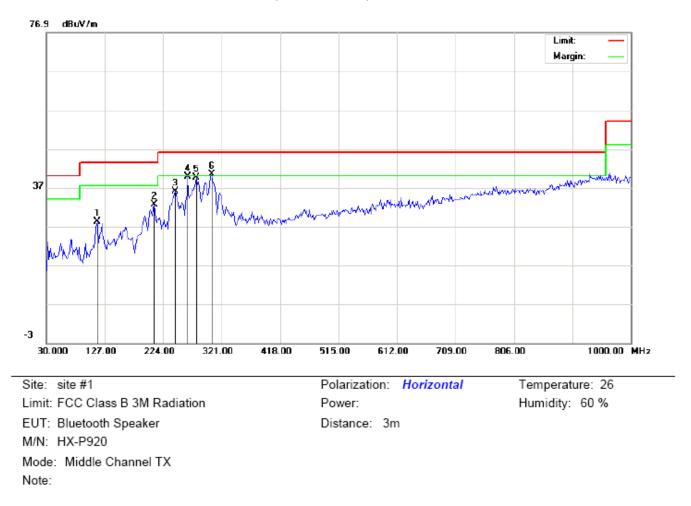
RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	i	36.4667	31.13	4.27	35.40	40.00	-4.60	peak			
2		80.1167	22.70	1.84	24.54	40.00	-15.46	peak			
3		152.8667	16.16	15.28	31.44	43.50	-12.06	peak			
4		295.1333	17.05	15.26	32.31	46.00	-13.69	peak			
5		463.2667	11.37	20.73	32.10	46.00	-13.90	peak			
6	*	945.0333	12.62	29.86	42.48	46.00	-3.52	peak			

RESULT: PASS

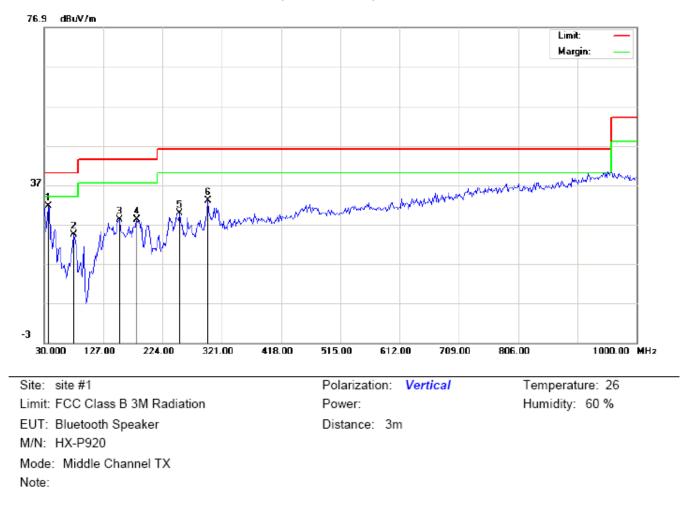
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		114.0667	16.81	11.45	28.26	43.50	-15.24	peak			
2		209.4500	20.16	12.36	32.52	43.50	-10.98	peak			
3		243.4000	22.33	13.65	35.98	46.00	-10.02	peak			
4		264.4166	25.43	14.34	39.77	46.00	-6.23	peak			
5		278.9667	24.76	14.77	39.53	46.00	-6.47	peak			
6	*	304.8333	24.67	15.73	40.40	46.00	-5.60	peak			



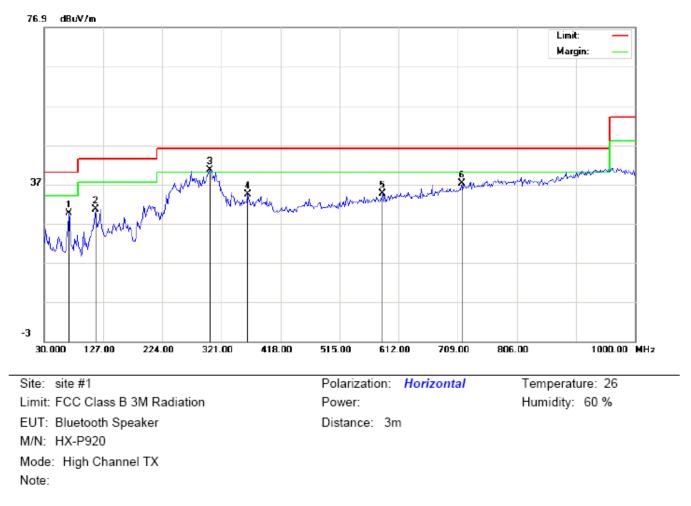
RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	36.4667	27.39	4.27	31.66	40.00	-8.34	peak			
2		78.5000	22.21	2.17	24.38	40.00	-15.62	peak			
3		152.8667	12.98	15.28	28.26	43.50	-15.24	peak			
4		181.9667	14.62	13.57	28.19	43.50	-15.31	peak			
5		251.4833	15.91	13.94	29.85	46.00	-16.15	peak			
6		298.3667	17.64	15.36	33.00	46.00	-13.00	peak			

RESULT: PASS

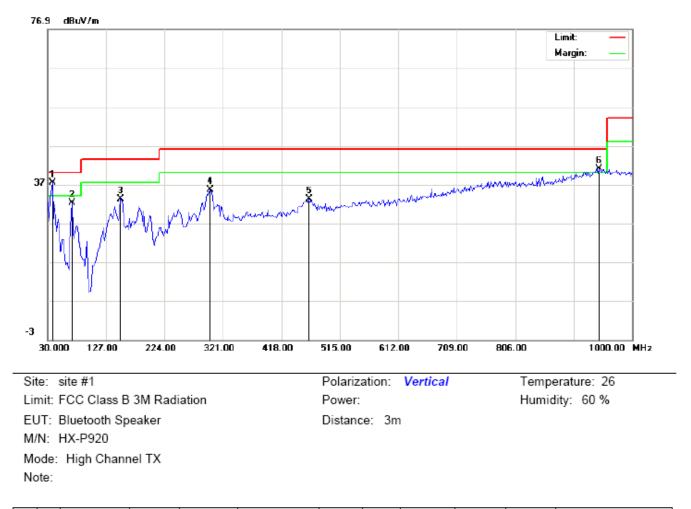
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		70.4167	19.32	10.24	29.56	40.00	-10.44	peak			
2		114.0667	19.18	11.45	30.63	43.50	-12.87	peak			
3	*	301.6000	25.02	15.52	40.54	46.00	-5.46	peak			
4		364.6500	15.62	18.84	34.46	46.00	-11.54	peak			
5		586.1332	11.21	23.38	34.59	46.00	-11.41	peak			
6		715.4667	11.53	25.64	37.17	46.00	-8.83	peak			



RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	38.0833	31.05	6.39	37.44	40.00	-2.56	peak			
2		70.4167	28.05	4.16	32.21	40.00	-7.79	peak			
3		151.2500	17.84	15.27	33.11	43.50	-10.39	peak			
4		299.9833	20.16	15.41	35.57	46.00	-10.43	peak			
5		463.2667	12.40	20.73	33.13	46.00	-12.87	peak			
6	İ	945.0333	11.13	29.86	40.99	46.00	-5.01	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

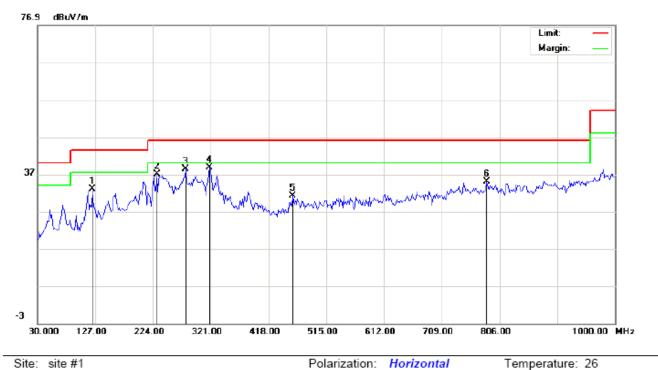
FOR BLE

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHZ**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

Radiated Emission Measurement



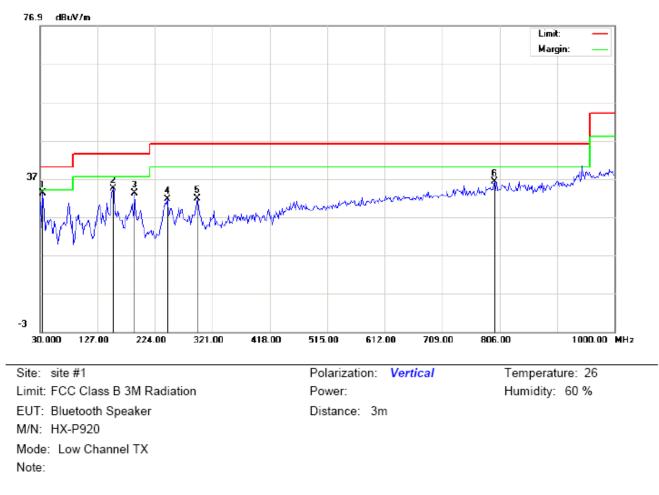
Site: site #1 Limit: FCC Class B 3M Radiation EUT: Bluetooth Speaker M/N: HX-P920 Mode: Low Channel TX Note:

Power:

Distance: 3m

Humidity: 60 %

Antenna Table Freq. Reading Factor Measurement Limit Over Mk No. Detector Height Degree Comment dBu∨ dB/m MHz dBuV/m dBuV/m dB degree cm 122.1500 20.79 12.22 33.01 43.50 -10.49 1 peak 2 230.4667 23.80 13.16 36.96 46.00 -9.04 peak 3 278.9667 23.54 14.77 38.31 46.00 -7.69 peak 319.3833 22.01 16.70 38.71 46.00 -7.29 4 * peak 458.4166 10.45 20.68 -14.87 5 31.13 46.00 peak 7.84 27.11 6 784.9832 34.95 46.00 -11.05 peak



RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL

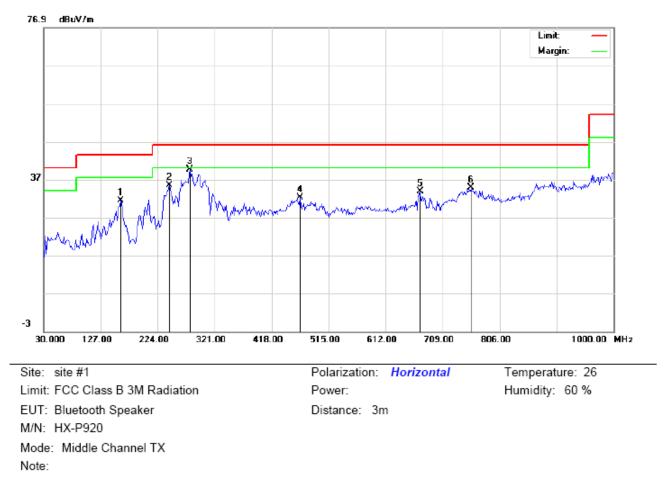
Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	34.8500	31.00	2.15	33.15	40.00	-6.85	peak			
2		152.8667	19.16	15.28	34.44	43.50	-9.06	peak			
3		190.0500	21.62	11.52	33.14	43.50	-10.36	peak			
4		245.0166	18.18	13.41	31.59	46.00	-14.41	peak			
5		295.1333	16.55	15.26	31.81	46.00	-14.19	peak			
6		797.9166	8.89	27.29	36.18	46.00	-9.82	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

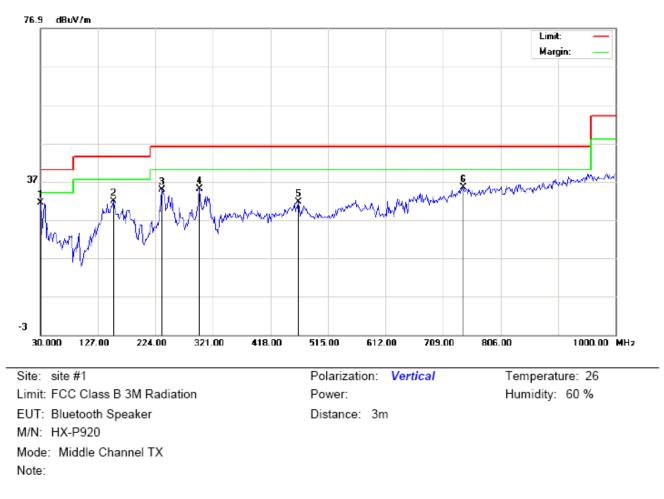
2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		160.9499	16.23	15.13	31.36	43.50	-12.14	peak			
2		243.4000	21.83	13.65	35.48	46.00	-10.52	peak			
3	*	278.9667	24.76	14.77	39.53	46.00	-6.47	peak			
4		466.5000	11.49	20.77	32.26	46.00	-13.74	peak			
5		670.2000	9.47	24.39	33.86	46.00	-12.14	peak			
6		757.5000	8.07	26.73	34.80	46.00	-11.20	peak			

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Radiated Emission Measurement

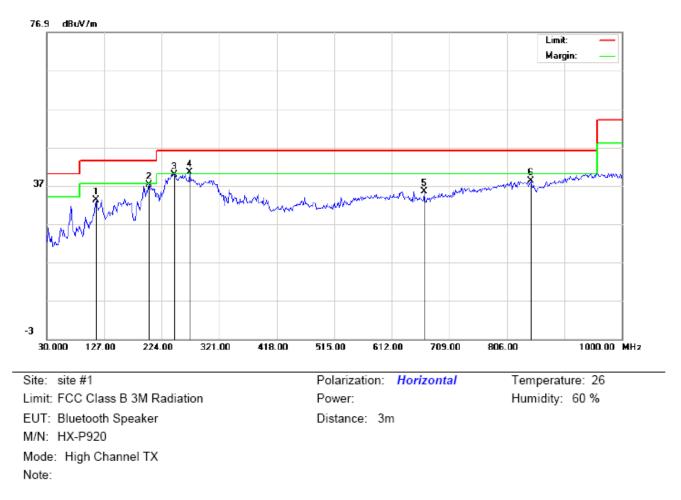
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	30.0000	35.66	-4.20	31.46	40.00	-8.54	peak			
2		152.8667	16.48	15.28	31.76	43.50	-11.74	peak			
3		235.3165	22.38	12.46	34.84	46.00	-11.16	peak			
4		298.3666	19.64	15.36	35.00	46.00	-11.00	peak			
5		464.8833	10.83	20.75	31.58	46.00	-14.42	peak			
6		742.9500	8.97	26.43	35.40	46.00	-10.60	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

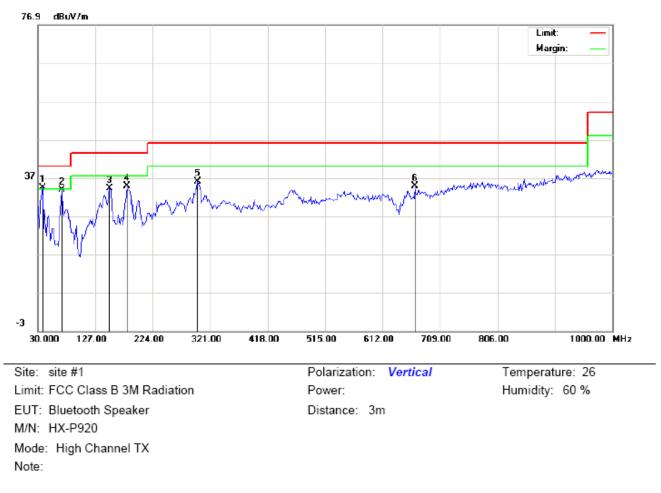
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		114.0665	21.68	11.45	33.13	43.50	-10.37	peak			
2		202.9833	25.04	12.11	37.15	43.50	-6.35	peak			
3		245.0166	26.04	13.71	39.75	46.00	-6.25	peak			
4	*	270.8833	25.91	14.53	40.44	46.00	-5.56	peak			
5		666.9664	11.04	24.30	35.34	46.00	-10.66	peak			
6		846.4166	10.93	27.31	38.24	46.00	-7.76	peak			

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	38.0833	28.05	6.39	34.44	40.00	-5.56	peak			
2		70.4167	29.55	4.16	33.71	40.00	-6.29	peak			
3		151.2500	18.84	15.27	34.11	43.50	-9.39	peak			
4		180.3497	20.77	13.98	34.75	43.50	-8.75	peak			
5		299.9832	20.66	15.41	36.07	46.00	-9.93	peak			
6		666.9664	10.48	24.30	34.78	46.00	-11.22	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

120.0 dBuV/m Limit: AVG: 80 <u>2</u> ŝ MMurymyh 40.0 mm/w/w/w/ 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz Site: site #1 Polarization: Horizontal Temperature: 26

RADIATED EMISSION ABOVE 1GHZ

FOR TRADITIONAL BLUETOOTH

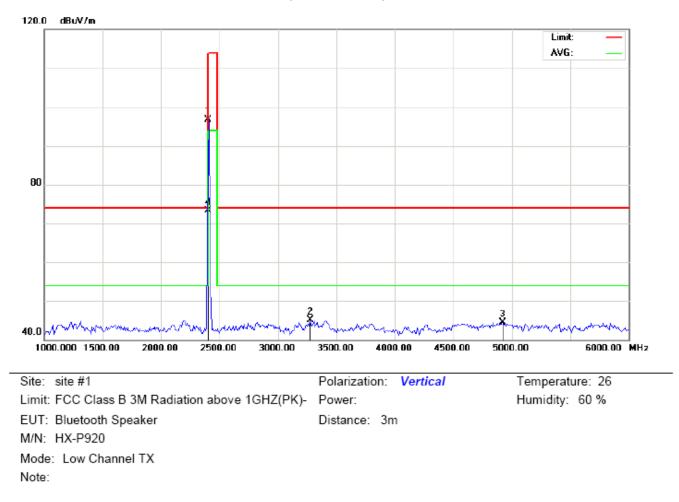
RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL

Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: EUT: Bluetooth Speaker M/N: HX-P920 Mode: Low Channel TX Note:

Humidity: 60 %

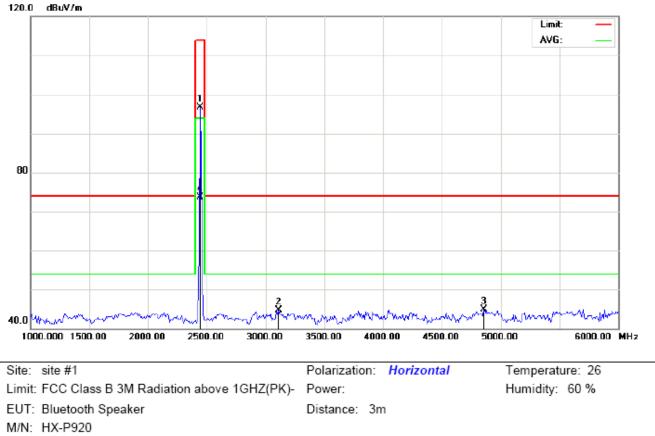
Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	106.73	-9.68	97.05	114.00	-16.95	peak			
2		3325.000	52.25	-8.05	44.20	74.00	-29.80	peak			
3		4741.667	46.68	-2.48	44.20	74.00	-29.80	peak			
4		2402.000	83.24	-9.68	73.56	94.00	-20.44	AVG	100	159	



RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL

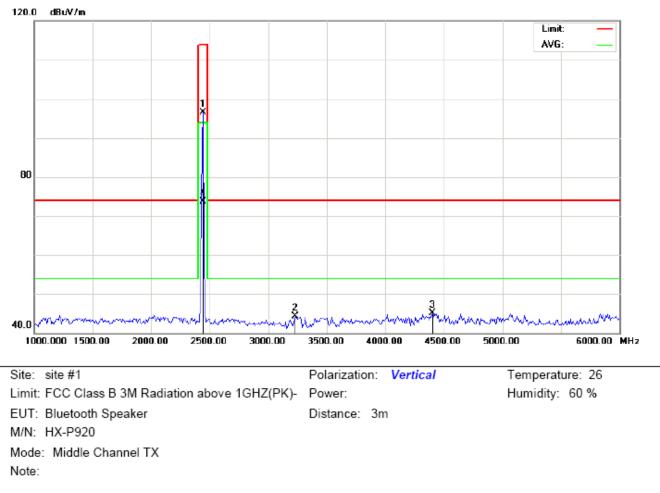
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	106.29	-9.68	96.61	114.00	-17.39	peak			
2		3275.000	53.15	-8.10	45.05	74.00	-28.95	peak			
3		4925.000	46.52	-2.00	44.52	74.00	-29.48	peak			
4		2402.000	82.96	-9.68	73.28	94.00	-20.72	AVG	100	128	



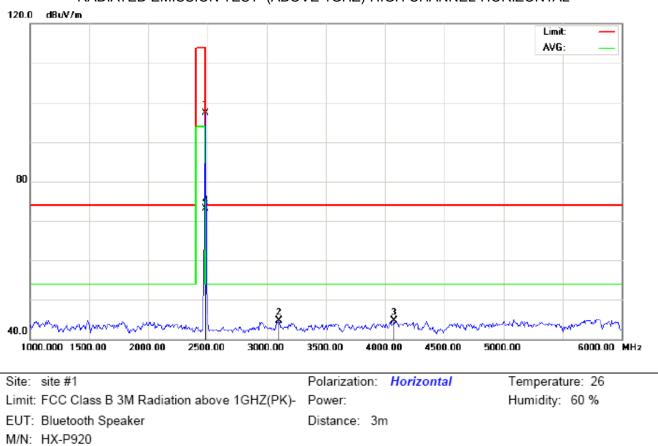
RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

Mode: Middle Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1	*	2440.000	106.29	-9.63	96.66	114.00	-17.34	peak			
2		3108.333	52.95	-8.26	44.69	74.00	-29.31	peak			
3		4858.333	47.05	-2.17	44.88	74.00	-29.12	peak			
4		2441.000	83.43	-9.63	73.80	94.00	-20.20	AVG	100	48	



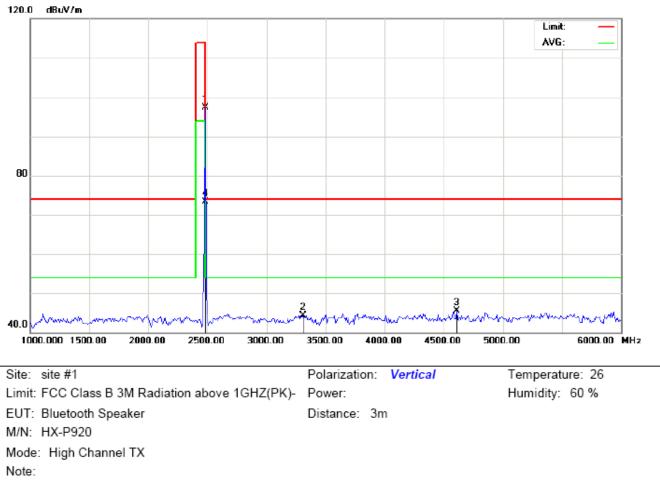
N). I	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		*	2440.000	106.23	-9.63	96.60	114.00	-17.40	peak			
2			3233.333	52.43	-8.14	44.29	74.00	-29.71	peak			
3			4400.000	48.52	-3.45	45.07	74.00	-28.93	peak			
4			2441.000	83.31	-9.63	73.68	94.00	-20.32	AVG	100	93	



RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

Mode: High Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	106.87	-9.59	97.28	114.00	-16.72	peak			
2		3100.000	52.95	-8.27	44.68	74.00	-29.32	peak			
3		4075.000	49.19	-4.55	44.64	74.00	-29.36	peak			
4		2480.000	82.67	-9.59	73.08	94.00	-20.92	AVG	100	69	



RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2480.000	106.81	-9.59	97.22	114.00	-16.78	peak			
2		3308.333	52.47	-8.07	44.40	74.00	-29.60	peak			
3		4608.333	48.36	-2.83	45.53	74.00	-28.47	peak			
4		2480.000	82.96	-9.59	73.37	94.00	-20.63	AVG	100	0	

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Field strength of the fundamental signal

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	106.73	-9.68	97.05	114	-16.95	Horizontal
2402	106.29	-9.68	96.61	114	-17.39	Vertical
2440	106.29	-9.63	96.66	114	-17.34	Horizontal
2440	106.23	-9.63	96.60	114	-17.40	Vertical
2480	106.87	-9.59	97.28	114	-16.72	Horizontal
2480	106.81	-9.59	97.22	114	-16.78	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.24	-9.68	73.56	94	-20.44	Horizontal	
2402	82.96	-9.68	73.28	94	-20.72	Vertical	
2440	83.43	-9.63	73.80	94	-20.20	Horizontal	
2440	83.31	-9.63	73.68	94	-20.32	Vertical	
2480	82.67	-9.59	73.08	94	-20.92	Horizontal	
2480	82.96	-9.59	73.37	94	-20.63	Vertical	

FOR BLE

120.0 dBuV/m Limit AVG: 80 Ż 40.0 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz Temperature: 26 Site: site #1 Polarization: Horizontal Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 60 % EUT: Bluetooth Adapter Distance: 3m M/N: HX-P920

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL Radiated Emission Measurement

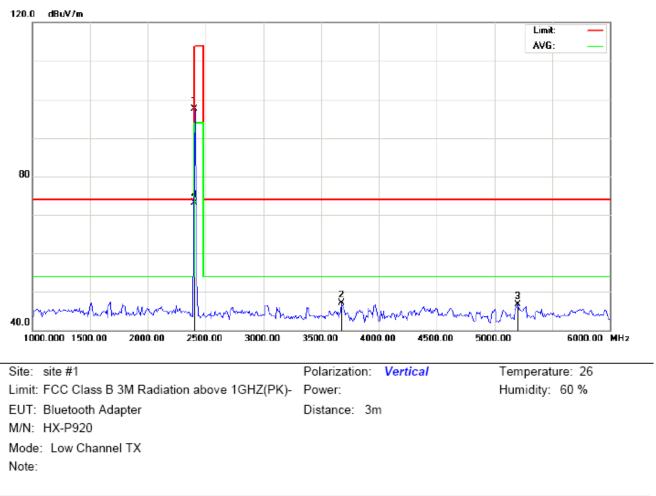
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	107.20	-9.68	97.52	114.00	-16.48	peak			
2		3408.333	55.36	-7.98	47.38	74.00	-26.62	peak			
3		5158.333	49.35	-1.80	47.55	74.00	-26.45	peak			
4		2402.000	83.06	-9.68	73.38	94.00	-20.62	AVG	150	63	

RESULT: PASS

Note:

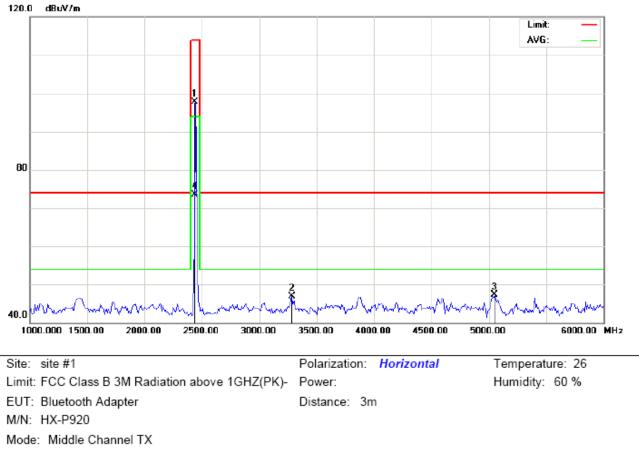
Mode: Low Channel TX

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL



Radiated Emission Measurement

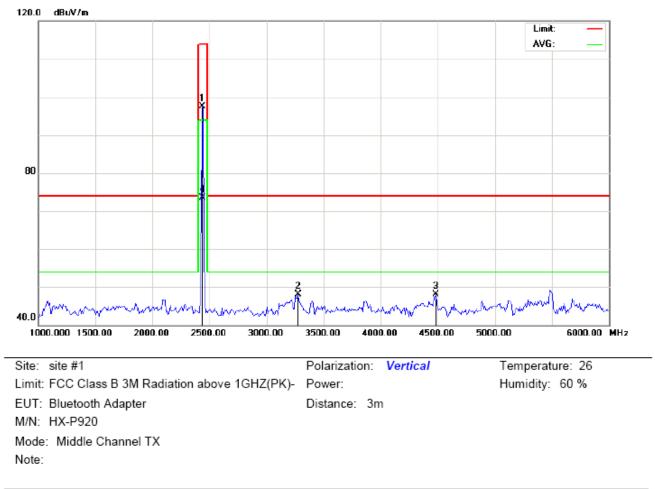
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2402.000	107.22	-9.68	97.54	114.00	-16.46	peak			
2		3675.000	53.90	-6.81	47.09	74.00	-26.91	peak			
3		5200.000	48.57	-1.80	46.77	74.00	-27.23	peak			
4		2402.000	82.85	-9.68	73.17	94.00	-20.83	AVG	150	97	



RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL Radiated Emission Measurement

Note:

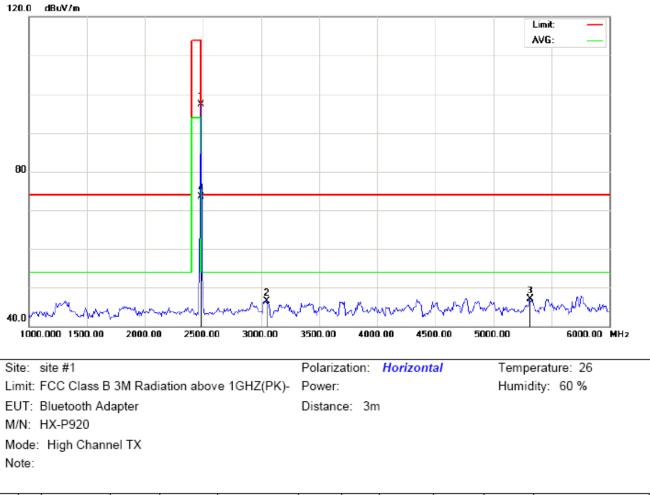
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	107.30	-9.64	97.66	114.00	-16.34	peak			
2		3283.333	54.93	-8.09	46.84	74.00	-27.16	peak			
3		5050.000	49.03	-1.80	47.23	74.00	-26.77	peak			
4		2440.000	83.21	-9.64	73.57	94.00	-20.43	AVG	150	203	



RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	107.24	-9.64	97.60	114.00	-16.40	peak			
2		3275.000	56.13	-8.10	48.03	74.00	-25.97	peak			
3		4483.333	51.19	-3.17	48.02	74.00	-25.98	peak			
4		2440.000	83.14	-9.64	73.50	94.00	-20.50	AVG	150	153	

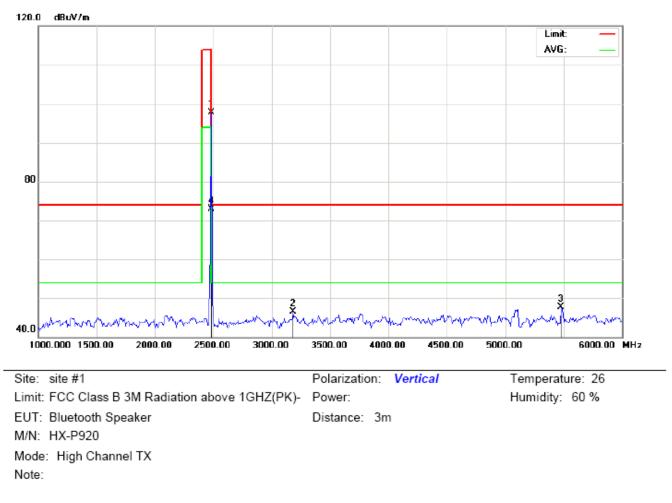
RESULT: PASS



RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	106.89	-9.59	97.30	114.00	-16.70	peak			
2		3050.000	54.79	-8.31	46.48	74.00	-27.52	peak			
3		5316.667	48.91	-1.81	47.10	74.00	-26.90	peak			
4		2480.000	83.14	-9.59	73.55	94.00	-20.45	AVG	150	0	

RESULT: PASS



RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	107.37	-9.59	97.78	114.00	-16.22	peak			
2		3183.333	54.60	-8.19	46.41	74.00	-27.59	peak			
3		5475.000	49.42	-1.81	47.61	74.00	-26.39	peak			
4		2480.000	82.57	-9.59	72.98	94.00	-21.02	AVG	150	49	

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Field strength of the fundamental signal

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	107.2	-9.68	97.52	114	-16.48	Horizontal
2402	107.22	-9.68	97.54	114	-16.46	Vertical
2440	107.30	-9.64	97.66	114	-16.34	Horizontal
2440	107.24	-9.64	97.60	114	-16.40	Vertical
2480	106.89	-9.59	97.30	114	-16.70	Horizontal
2480	107.37	-9.59	97.78	114	-16.22	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	83.06	-9.68	73.38	94	-20.62	Horizontal
2402	82.85	-9.68	73.17	94	-20.83	Vertical
2440	83.21	-9.64	73.57	94	-20.43	Horizontal
2440	83.14	-9.64	73.50	94	-20.50	Vertical
2480	83.14	-9.59	73.55	94	-20.45	Horizontal
2480	82.57	-9.59	72.98	94	-21.02	Vertical

9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

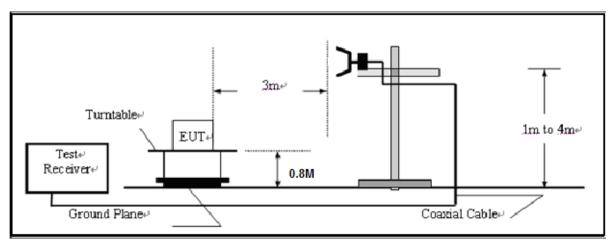
1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

9.2 TEST SETUP



RADIATED EMISSION TEST SETUP

CONDUCTED TEST SETUP

EUT	Test Cable	Spectrum
		Analyzer

9.3 RADIATED TEST RESULT(Worst modulation:GFSK)

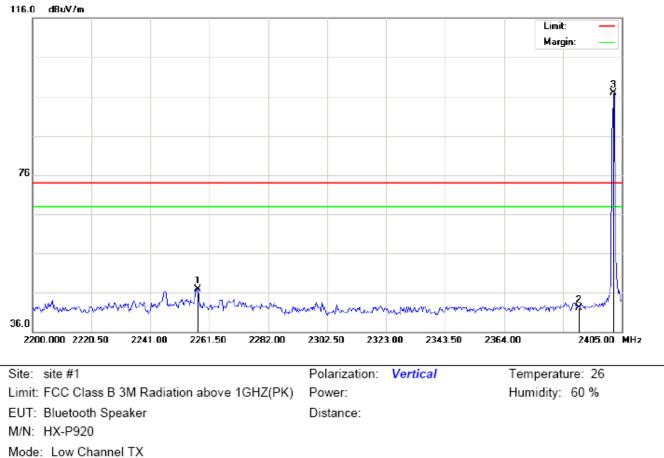
FOR TRADITIONAL BLEUTOOTH

76

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal 116.0 dBuV/m Limit: Margin:

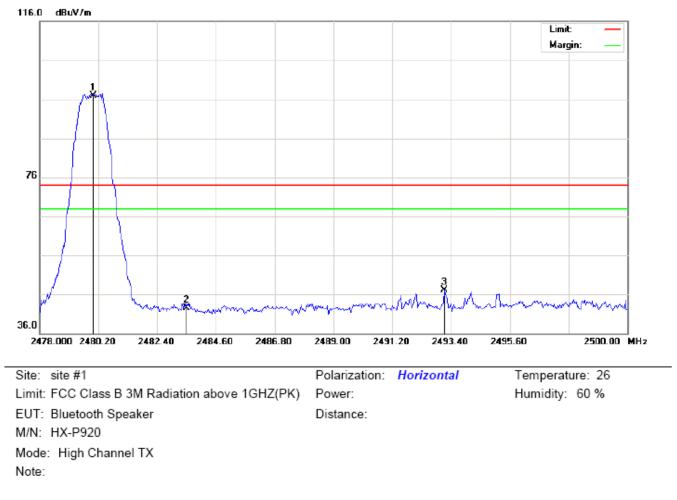
3 36.0 2200.000 2220.50 2241.00 2261.50 2282.00 2302.50 2323.00 2343.50 2364.00 2405.00 MHz Temperature: 26 Site: site #1 Polarization: Horizontal Humidity: 60 % Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: EUT: Bluetooth Speaker Distance: M/N: HX-P920 Mode: Low Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2259.450	35.77	10.17	45.94	74.00	-28.06	peak			
2		2390.000	31.50	10.31	41.81	74.00	-32.19	peak			
3	*	2402.000	86.72	10.32	97.04	74.00	23.04	peak			



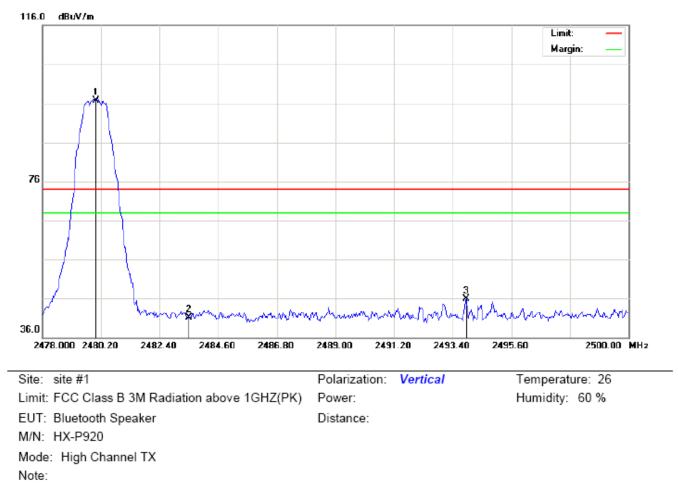
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2257.400	36.66	10.16	46.82	74.00	-27.18	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3	*	2402.000	86.59	10.32	96.91	74.00	22.91	peak			



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	86.55	10.41	96.96	74.00	22.96	peak			
2		2483.500	32.19	10.41	42.60	74.00	-31.40	peak			
3		2493.143	36.65	10.42	47.07	74.00	-26.93	peak			



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.32	10.41	96.73	74.00	22.73	peak			
2		2483.500	30.76	10.41	41.17	74.00	-32.83	peak			
3		2493.913	35.44	10.42	45.86	74.00	-28.14	peak			

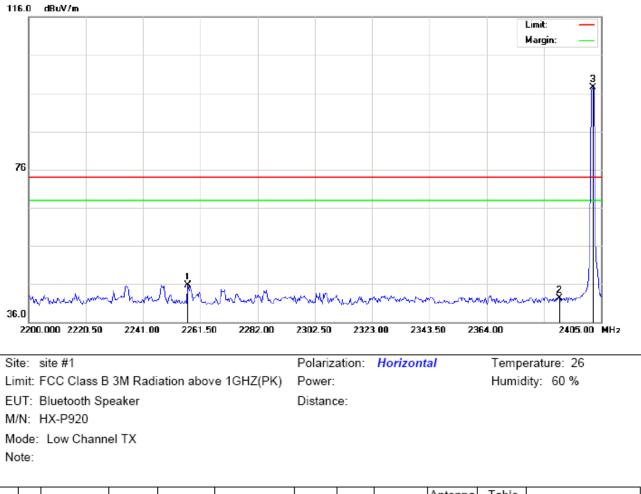
RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

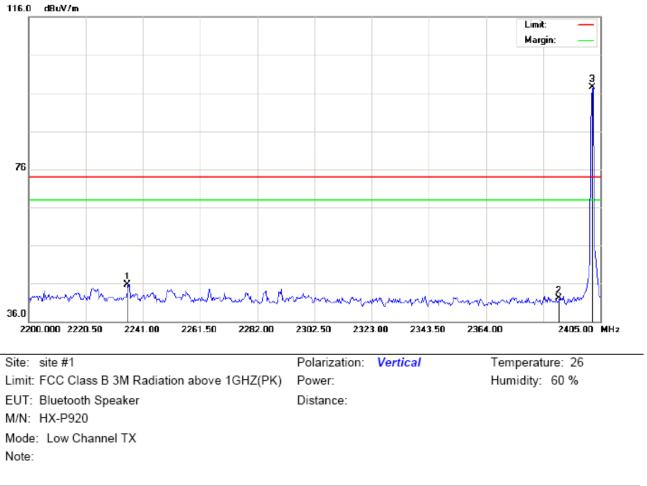
FOR BLE



TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2257.058	35.54	10.16	45.70	74.00	-28.30	peak			
2		2390.000	32.00	10.31	42.31	74.00	-31.69	peak			
3	*	2402.000	87.20	10.32	97.52	74.00	23.52	peak			

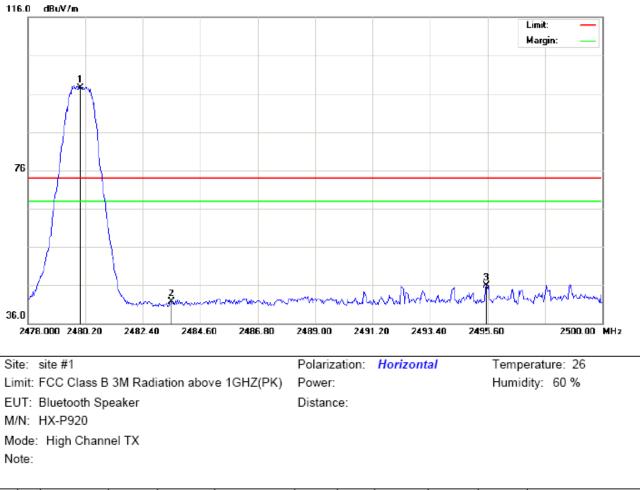
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2235.533	35.66	10.14	45.80	74.00	-28.20	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3	*	2402.000	87.11	10.32	97.43	74.00	23.43	peak			

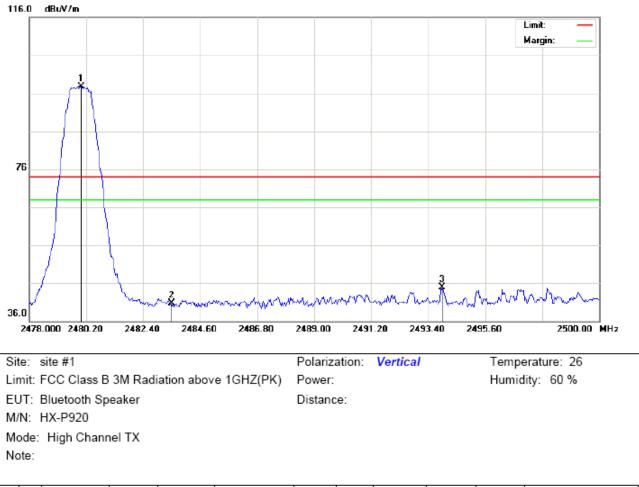
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.05	10.41	97.46	74.00	23.46	peak			
2		2483.500	31.19	10.41	41.60	74.00	-32.40	peak			
3		2495.563	35.39	10.42	45.81	74.00	-28.19	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Radiated Emission Measurement

No.	Mk	Freq.	Reading	Factor	Measurement	Limit Over		Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.32	10.41	97.73	74.00	23.73	peak			
2		2483.500	30.26	10.41	40.67	74.00	-33.33	peak			
3		2493.950	34.55	10.42	44.97	74.00	-29.03	peak			

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

10. FCC LINE CONDUCTED EMISSION TEST

10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

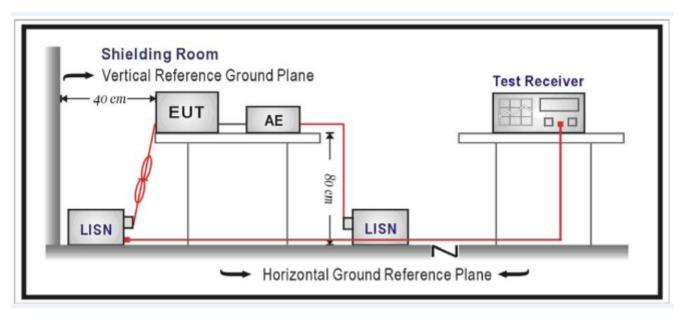
Frequency	Maximum RF Line Voltage								
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	56	46							
5MHz~30MHz	60	50							

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

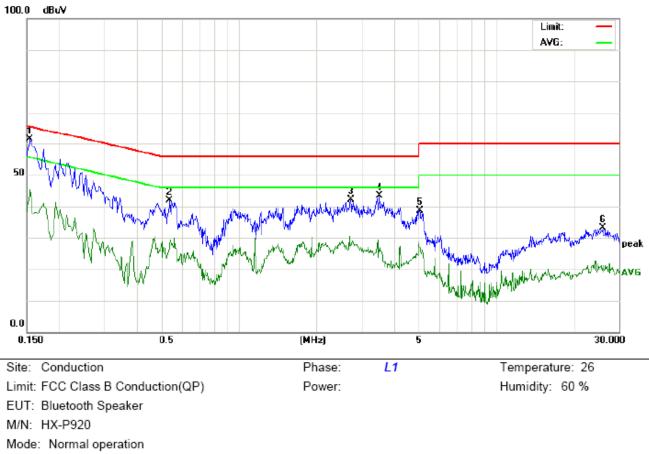
10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

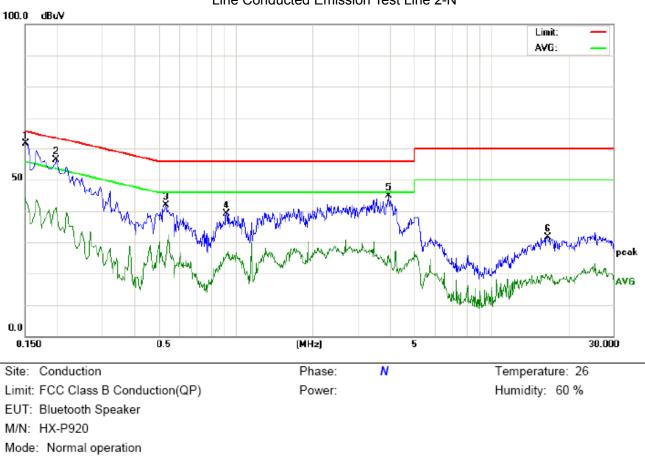
10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

FOR TRADITIONAL BLUETOOTH

Line Conducted Emission Test Line 1-L



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1539	51.10	48.10	29.19	10.16	61.26	58.26	39.35	65.78	55.78	-7.52	-16.43	Ρ	
2	0.5380	31.40		17.23	10.37	41.77		27.60	56.00	46.00	-14.23	-18.40	Ρ	
3	2.7260	31.60		16.97	10.48	42.08		27.45	56.00	46.00	-13.92	-18.55	Ρ	
4	3.5220	32.80		15.31	10.51	43.31		25.82	56.00	46.00	-12.69	-20.18	Ρ	
5	5.0380	28.30		16.54	10.24	38.54		26.78	60.00	50.00	-21.46	-23.22	Р	
6	25.9660	22.94		11.07	10.11	33.05		21.18	60.00	50.00	-26.95	-28.82	Р	



Line Conducted Emission Test Line 2-N

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1500	51.50		33.91	10.16	61.66		44.07	65.99	55.99	-4.33	-11.92	Р	
2	0.1980	46.16		31.02	10.21	56.37		41.23	63.69	53.69	-7.32	-12.46	Р	
3	0.5340	31.40		15.78	10.37	41.77		26.15	56.00	46.00	-14.23	-19.85	Р	
4	0.9220	28.85		15.47	10.40	39.25		25.87	56.00	46.00	-16.75	-20.13	Ρ	
5	3.9740	34.57		15.48	10.43	45.00		25.91	56.00	46.00	-11.00	-20.09	Р	
6	16.6060	21.53		8.00	10.12	31.65		18.12	60.00	50.00	-28.35	-31.88	Р	

FOR BLE

80.0 dBuV Limit: AVG: 3 Maring W. 30 peak AYG -20 0.150 0.5 (MHz) 5 30.000 Site: Conduction Phase: Temperature: 26 L1 Power: Humidity: 60 %

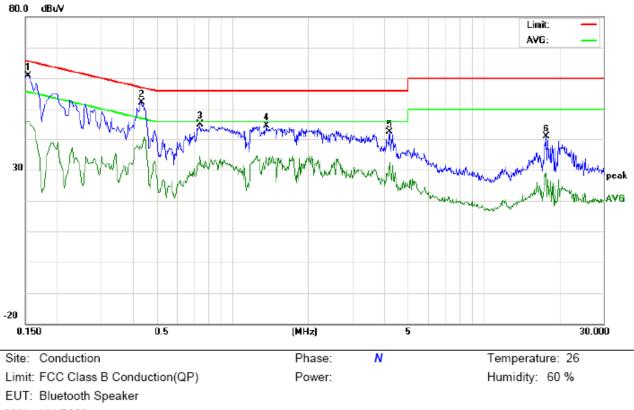
Line Conducted Emission Test Line 1-L

Conducted Emission Measurement

Limit: FCC Class B Conduction(QP) EUT: Bluetooth Speaker M/N: HX-P920

Mode: Normal operation with charging

	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor				Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2020	48.16		32.79	10.22	58.38		43.01	63.52	53.52	-5.14	-10.51	Р	
2	0.2260	47.21		27.91	10.24	57.45		38.15	62.59	52.59	-5.14	-14.44	Р	
3	0.4260	40.45		27.34	10.35	50.80		37.69	57.33	47.33	-6.53	-9.64	Р	
4	1.2020	31.77		20.17	10.37	42.14		30.54	56.00	46.00	-13.86	-15.46	Р	
5	4.2380	34.18		24.18	10.33	44.51		34.51	56.00	46.00	-11.49	-11.49	Р	
6	17.4540	28.28		13.70	10.13	38.41		23.83	60.00	50.00	-21.59	-26.17	Р	



Line Conducted Emission Test Line 2-N **Conducted Emission Measurement**

M/N: HX-P920

Mode: Normal operation with charging

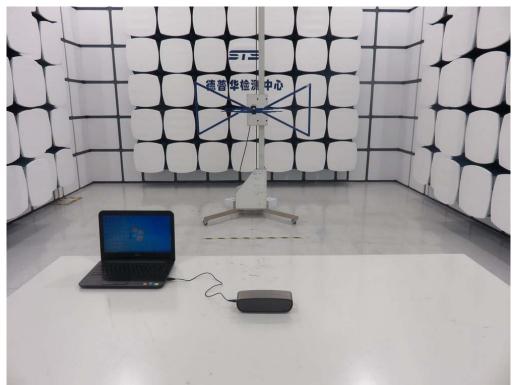
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1539	50.71		35.86	10.16	60.87		46.02	65.78	55.78	-4.91	-9.76	Р	
2	0.4340	41.81		26.64	10.35	52.16		36.99	57.18	47.18	-5.02	-10.19	Ρ	
3	0.7460	34.86		24.04	10.32	45.18		34.36	56.00	46.00	-10.82	-11.64	Р	
4	1.3700	34.26		22.45	10.38	44.64		32.83	56.00	46.00	-11.36	-13.17	Р	
5	4.2420	32.14		22.12	10.32	42.46		32.44	56.00	46.00	-13.54	-13.56	Р	
6	17.7740	30.69		18.70	10.12	40.81		28.82	60.00	50.00	-19.19	-21.18	Р	

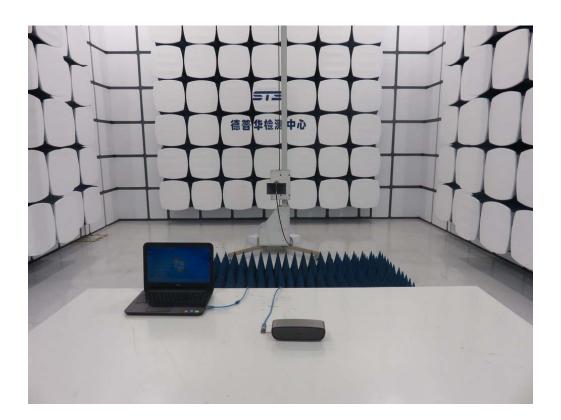
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP







APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT

BOTTOM VIEW OF EUT





FRONT VIEW OF EUT

BACK VIEW OF EUT





LEFT VIEW OF EUT

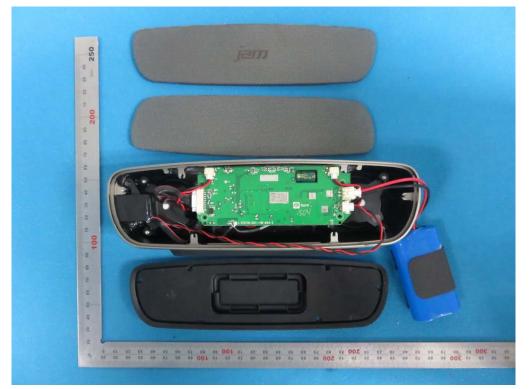
RIGHT VIEW OF EUT

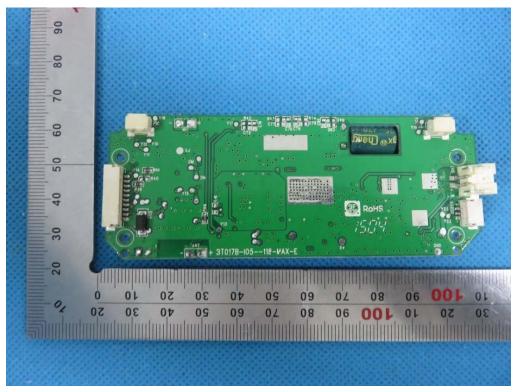




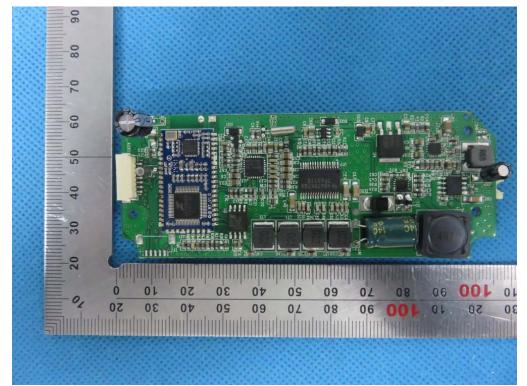
VIEW OF EUT (PORT)

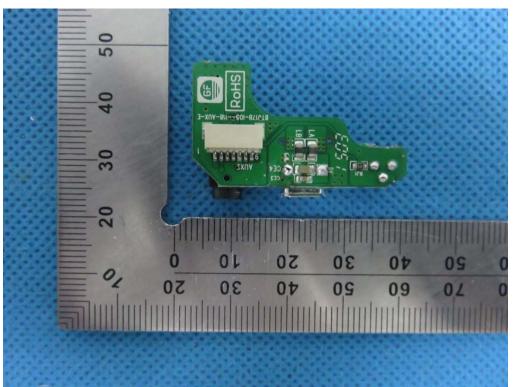
OPEN VIEW OF EUT

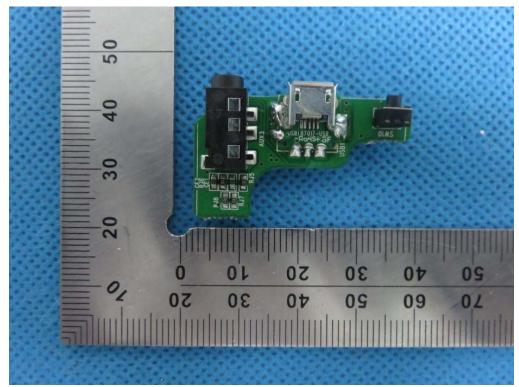


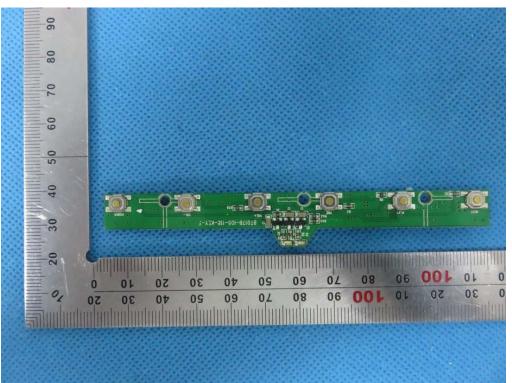


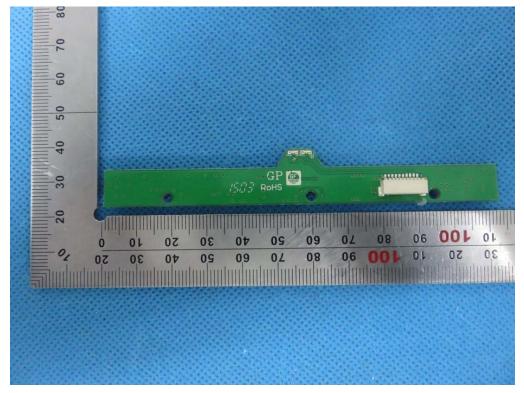
INTERNAL VIEW OF EUT-1

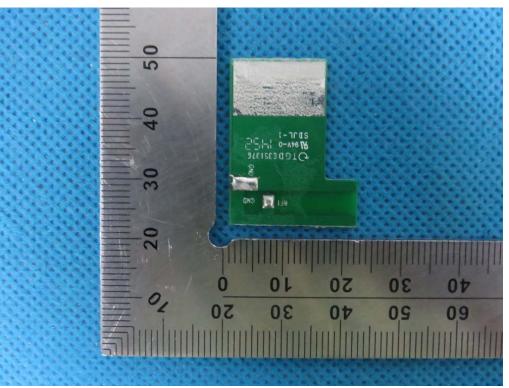


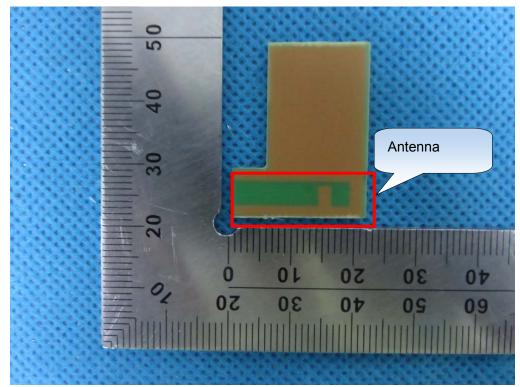


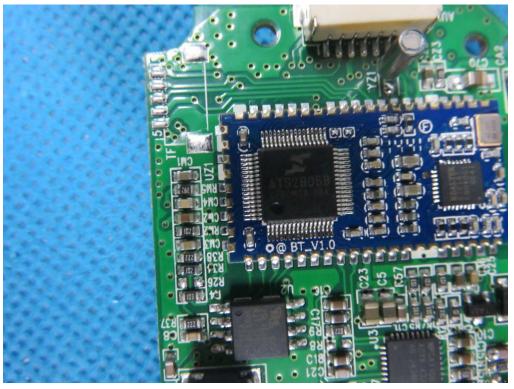












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