



### FCC Test Report FCC ID:2ALS5-8210US

Product: massage chair

Trade Name: BODYFRIEND Model Number: BFB-8210US Family Model: N/A Report No.: S23072502601003

Prepared for

BODYFRIEND Co.,Ltd.

163, Yangjaecheon-ro, Gangnam-gu, Seoul, South Korea

### Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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### **TEST RESULTCERTIFICATION**

Applicant's name	BODYFRIEND Co.,Ltd.
Address:	163, Yangjaecheon-ro, Gangnam-gu, Seoul, South Korea
Manufacturer's Name:	Ningbo Behealthy Technology Group Co.,Ltd
Address	No.318, Huisheng Road, Economic Development Zone, Fenghua, Ningbo, Zhejiang, China
Model and/or type reference :	BFB-8210US
Family Model:	N/A
Test sample number	S230725026001
results show that the equipment un applicable only to the tested sample This report shall not be reproduced Technology Co., Ltd., this documen Ltd., personnel only, and shall be n	KDB 680106 D01 RF Exposure Wireless Charging App v03r01 een tested by ShenzhenNTEK Testing Technology Co., Ltd., and the test ider test (EUT) is in compliance with the FCC requirements. And it is e identified in the report. except in full, without the written approval of ShenzhenNTEK Testing it may be altered or revised by Shenzhen NTEK Testing Technology Co., oted in the revision of the document. only to the tested sample identified in this report.
Date (s) of performance of tests	: 31 Jul. 2023 ~ 31 Aug. 2023
Date of Issue	: 31 Aug. 2023
Test Result	Pass
Testing Engine	er : <u>Allen Liu</u> (Allen Liu)

Authorized Signatory:

Hes

(Alex Li)





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### 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	FCC Rules	Judgment	Remark			
	Conducted Emission	§15.207	PASS				
FCC part 15C ANSI C63.10:2013	Radiated Emission	§15.209	PASS				
	ANTENNA APPLICATION	§15.203	PASS				
	20dB BANDWIDTH	§15.215	PASS				

NOTE:

(1)'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.





### 1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

### 1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	: The Certificate Registration Number is 9270A-1.
FCC- Accredited	: Test Firm Registration Number:463705.
	Designation Number: CN1184
A2LA-Lab.	: The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005General requirements for the competence of testing and calibration laboratories. This accreditation demonstratestechnical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

### **1.3 MEASUREMENT UNCERTAINTY**

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

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	2.8	
			±4.7%	Occupied bandwidth

#### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	9KHz ~1000MHz	2.64	
		1GHz ~12.4GHz	2.40	





### Report No.: S23072502601003

### **Revision History**

Report No.	Version	Description	Issued Date
S23072502601003	Rev.01	Initial issue of report	31 Aug. 2023
	+		
	+		



### 2. GENERAL INFORMATION

### 2.1GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	massage chair		
Trade Name	BODYFRIEND		
FCC ID	2ALS5-8210US		
Model No.	BFB-8210US		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	111kHz~175kHz		
Modulation Technique	Induction		
Antenna Type	Induction coil		
Power Rating	110-120V~ ,60Hz, 260W		
Battery	N/A		
HW Version	N/A		
SW Version	N/A		



### Report No.: S23072502601003

### 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

### EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases				
Test Item	Data Rate/ Modulation				
AC Conducted Emission	Mode 1: Max load				
Radiated Test Cases	Mode 1: Max load				

Wireless output 15W(Max)full load, half load and no load mode has been tested. But the Max Load mode is the worst mode, and only this mode was presented in this report.





# 2.2 DESCRIPTION OF TEST SETUP For AC Conducted Emission Mode E-2 Wireless coil load AC PLUG E-1 EUT For Radiated Test Cases E-2 Wireless AC PLUG coil load E-1 EUT





### 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	massage chair	BFB-8210US	N/A	EUT
E-2	Wireless charging test module	YBZ	N/A	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in  $\[$  Length  $\]$  column.

(3) "YES" means "shielded"" with core"; "NO" means "unshielded" without core".



### 2.4MEASUREMENT INSTRUMENTS LIST

### RadiationTest equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2022.11.08	2023.11.07	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year

### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year





### **3. EMC EMISSION TEST**

### 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	li	mit
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

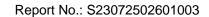
Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz





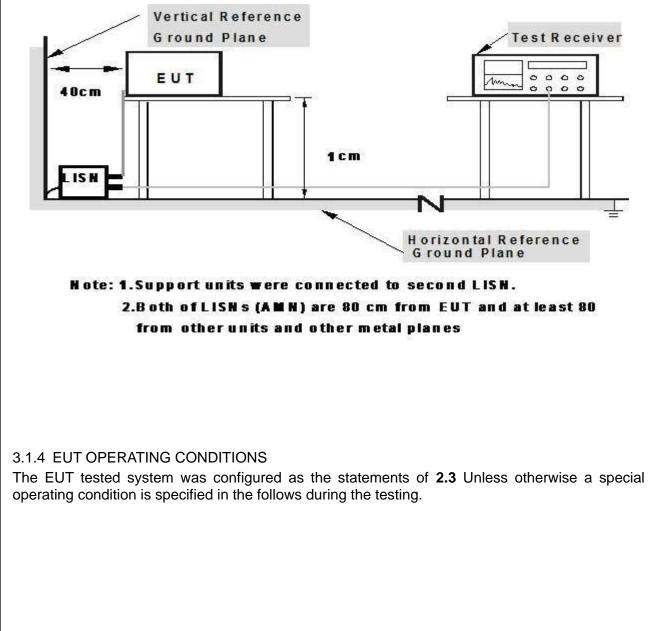
### 3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Certificate #4298.01

- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

### 3.1.3 TEST SETUP





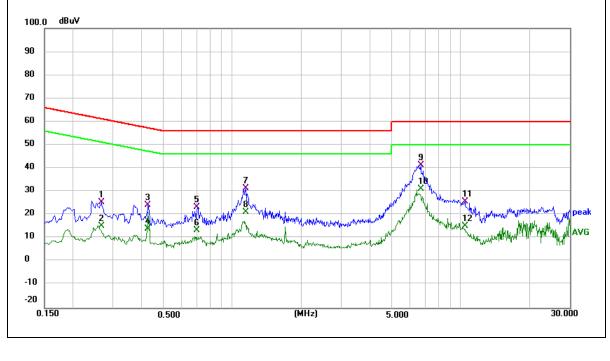
### 3.1.5TEST RESULTS

EUT:	massage chair	Model Name. :	BFB-8210US
Temperature:	<b>21.1</b> ℃	Relative Humidity:	48%
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2660	15.19	10.18	25.37	61.24	-35.87	QP
0.2660	5.12	10.18	15.30	51.24	-35.94	AVG
0.4260	13.89	10.51	24.40	57.33	-32.93	QP
0.4260	3.69	10.51	14.20	47.33	-33.13	AVG
0.7019	12.41	11.05	23.46	56.00	-32.54	QP
0.7019	2.31	11.05	13.36	46.00	-32.64	AVG
1.1420	19.46	11.94	31.40	56.00	-24.60	QP
1.1420	9.26	11.94	21.20	46.00	-24.80	AVG
6.6657	31.67	9.68	41.35	60.00	-18.65	QP
6.6657	21.34	9.68	31.02	50.00	-18.98	AVG
10.4420	16.14	9.69	25.83	60.00	-34.17	QP
10.4420	5.71	9.69	15.40	50.00	-34.60	AVG
		1				-

Remark:

All readings are Quasi-Peak and Average values.
Factor = Insertion Loss + Cable Loss.



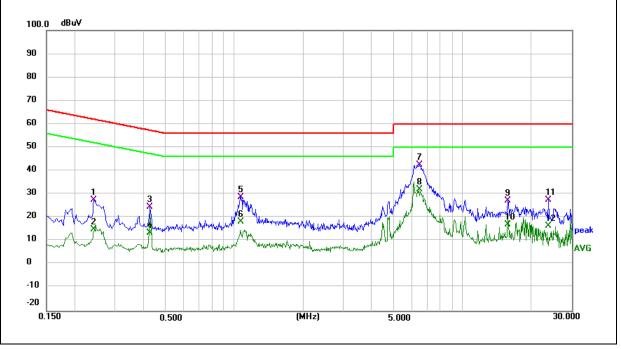


EUT:	massage o	chair	Mod	el Name. :	BFB-8210US	BFB-8210US	
Temperature:	<b>21.1</b> ℃	<b>21.1</b> ℃		Relative Humidity:			
Pressure:	1010hPa		Phas	se :	Ν		
Test Mode:	Mode 1		Test	Voltage:	AC 120V/60H	Z	
Frequency	Reading Level	Correct Factor	Measure-mer	nt Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark	
0.2420	17.38	10.12	27.50	62.03	-34.53	QP	
0.2420	4.90	10.12	15.02	52.03	-37.01	AVG	
0.4260	14.03	10.51	24.54	57.33	-32.79	QP	
0.4260	2.85	10.51	13.36	47.33	-33.97	AVG	
1.0700	17.05	11.80	28.85	56.00	-27.15	QP	
1.0700	6.45	11.80	18.25	46.00	-27.75	AVG	
6.4820	32.83	9.68	42.51	60.00	-17.49	QP	
6.4820	22.42	9.68	32.10	50.00	-17.90	AVG	
15.7340	17.65	9.71	27.36	60.00	-32.64	QP	
15.7340	7.39	9.71	17.10	50.00	-32.90	AVG	
23.7340	17.80	9.66	27.46	60.00	-32.54	QP	
23.7340	6.84	9.66	16.50	50.00	-33.50	AVG	

Remark:

All readings are Quasi-Peak and Average values.
Factor = Insertion Loss + Cable Loss.







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### 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

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

### 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Notes

- (1) Measurement was performed at an antenna to the closed point of EUT distance ofmeters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209limit.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector



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#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.01 meters above the ground at an accredited testfacility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the topof a variable-height antenna tower.
- c. The antenna is a broadband antenna(Blow 30M, use loop antenna), and its height is varied from one meter to four meters above theground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned toheights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to findthe maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz forquasi-peak detection (QP) at frequency below 1GHz.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

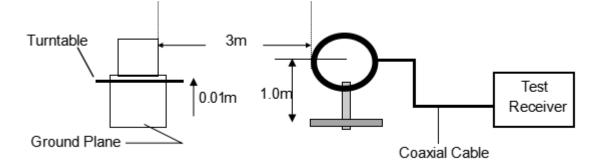
Use the following receiver/spectrum analyzer settings: Span = wide enough to fully capture the emission being measured RBW=200Hz for 9KHz to 150KHz, RBW=9kHz for 150KHz to 30MHz, RBW=120KHz for 30MHz to 1GHz VBW  $\geq$  3\*RBW Sweep = auto Detector function = QP Trace = max hold



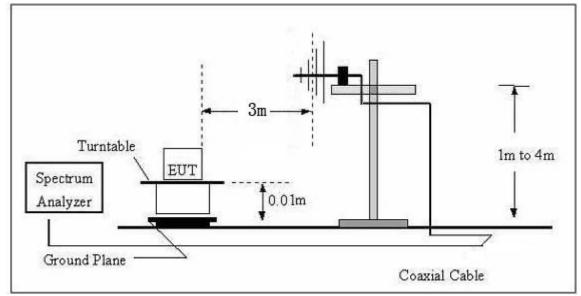


3.2.3 TEST SETUP

### (a) For Radiated Emission Test Set-Up, Frequency Below 30MHz



### b) For Radiated Emission 30~1000MHz







### 3.2.4TEST RESULTS

### TEST RESULTS(9KHz~30MHz)

### Note:

EUT:	massage chair	Model Name. :	BFB-8210US
Temperature:	<b>24</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Power :	AC 120V/60HZ
Test Mode :	Mode 1	Polarization:	X

Frequ	ency	Ant.Pol.	Emission	Limits	Margin	Remark
			Level			
(M⊦	łz)		(dBuV/m)	(dBuV/m)	(dB)	
0.0	59	Х	46.33	112.187	-65.86	Avg
0.09	91	Х	43.25	108.423	-65.17	Avg
0.13	33	Х	70.02	105.127	-35.11	Avg
0.75	52	Х	46.69	70.080	-23.39	QP
1.63	33	Х	45.02	63.345	-18.33	QP
12.5	69	Х	42.15	69.542	-27.39	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data. X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





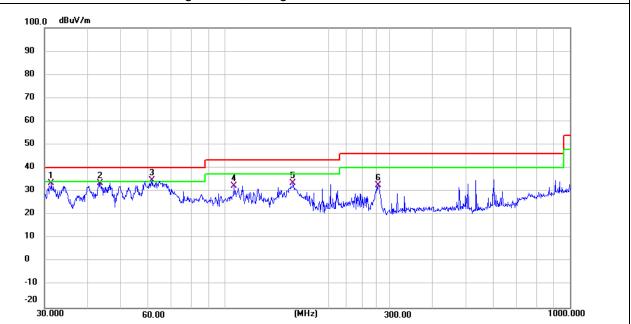
### TEST RESULTS(30MHz ~1000MHz)

EUT:	massage chair	Model Name. :	BFB-8210US
Temperature:	25.6	Relative Humidity:	54
Pressure:	1010hPa	Test Power :	AC 120V/60HZ
Test Mode :	Mode 1	Polarization:	Vertical

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.3992	41.83	-8.32	33.51	40.00	-6.49	QP
V	43.5056	41.52	-7.86	33.66	40.00	-6.34	QP
V	61.5617	43.79	-9.15	34.64	40.00	-5.36	QP
V	106.3850	42.98	-10.65	32.33	43.50	-11.17	QP
V	157.5586	40.61	-7.09	33.52	43.50	-9.98	QP
V	278.0668	41.10	-8.51	32.59	46.00	-13.41	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.







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EUT: ma		mass	age chair	Model Nam	Model Name. : BF		3FB-8210US			
Temperature: 25.6					Relative Hu	Relative Humidity: 54		4		
Pressure: 1010hPa				Test Power :			AC 120V/60HZ			
Test Mo	de :	Mode	e 1		Polarization:			Horizontal		
Polar (H/V)	Frequency		Meter Reading	Factor	Emission Level	Limits		Margin	Remark	
	(MH	z)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	/m)	(dB)		
Н	78.68		42.38	-12.06	30.32	40.0		-9.68	QP	
Н	125.4		45.99	-8.81	37.18	43.5		-6.32	QP	
Н	165.4		41.94	-7.59	34.35	43.5		-9.15	QP	
Н	252.0		43.97	-9.30	34.67	46.0		-11.33	QP	
H	515.4		44.21	-3.27	40.94	46.0		-5.06	QP	
H Remark:	884.5	027	36.17	2.73	38.90	46.0	0	-7.10	QP	
80 70 60 50 40				2			5		6 J	
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10 0 -10 -20	0.000				MHz)	300.00			1000.000	





### 4. BANDWIDTH TEST

### 4.1TEST PROCEDURE

1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.

2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.

3). Measured the spectrum width with power higher than 20dB below carrier.

### 4.2TEST SETUP







### 4.3 TEST RESULT

r	massage chair			Nodel Name. :	BFB-82	BFB-8210US	
erature: 2	<b>24°</b> ℃		R	Relative Humidity:		54%	
ure:	1010hPa			est Mode :	Mode <sup>2</sup>	Mode 1	
ower:	AC 120\	//60HZ					
					<b>.</b>	_	
	-20dB Bandwidth-a sing			FL	F <sub>H</sub>		
	frequency(Hz)			(kHz)	(kHz)		
		781		116.105	116.886		
			a single f	requency			
				requeriey			
Spectrun	n 30.00 dBm	R	BW 300 Hz				
Att	50 dB	SWT 6.3 ms 🖷 V		Mode Auto FFT			
●1Pk View				M1[1]		5.75 dBm	
20 dBm				ndB		116.4810 kHz 20.00 dB	
10 dBm				Bw	781	.000000000 Hz	
			7	Q factor		149.1	
0 dBm							
-10 dBm				12			
-20 dBm							
			A A -				
-30 dBm	0						
	ſ						
\-40 dBm	$\sim$						
\-40 dBm−− -50 dBm−−	ſ						
\-40 dBm							
-40 dBm	kHz		691	pts		Span 20.0 kHz	
-50 dBm -50 dBm -60 dBm CF 116.51 Marker							
-50 dBm -50 dBm -60 dBm CF 116.51 Marker Type Re M1	f Trc	X-value 116.481 kHz	Y-value 5.75 dB	Function of the second	Function Re	esult 781.0 Hz	
-50 dBm -50 dBm -60 dBm CF 116.51 Marker Type Re	f   Trc		Y-value	Function m ndB down m ndB		esult	



### **5. ANTENNA APPLICATION**

### 5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shallbe designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device. **5.2 Result** 

The EUT antenna ispermanent attached antenna. It comply with the standard requirement.

END REPORT