

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Massage Chair
Model No.: AG-6800A, GRAVIS

FCC ID: YMX-GRAVIS

Prepared for : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,
LTD
Address : NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, FUJIAN,
CHINA

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Report No. : ATE20171812
Date of Test : August 29-September 15, 2017
Date of Report : September 18, 2017

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Test Report Certification

Applicant : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Manufacturer : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
EUT Description : Massage Chair
Model No. : AG-6800A, GRAVIS
Trade Mark : n.a.

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2016
ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Apr 05, 2017 KDB558074 D01 DTS Meas Guidance v04 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 29-September 15, 2017
Date of Report: September 18, 2017

Prepared by :

Bob Wang

(Bob Wang, Engineer)

Approved & Authorized Signer :


(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Massage Chair
Model Number	:	AG-6800A, GRAVIS
(Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. So we prepare the AG-6800A for test.)		
Trade Mark	:	n.a.
Bluetooth version	:	BT V4.0 LE
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	2dBi
Antenna type	:	Integral Antenna
Power Supply	:	DC 24V(Power by Adapter)
Adapter	:	Model: YJS090A-2403000D Input: AC 100-240V; 50/60Hz Output: DC 24V; 3000mA
Modulation mode	:	GFSK
Applicant	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, FUJIAN, CHINA
Manufacturer	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, FUJIAN, CHINA
Date of sample received	:	August 26, 2017
Date of Test	:	August 29-September 15, 2017

1.2.Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3.Special Accessory and Auxiliary Equipment

N/A

1.4.Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358
		Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2
		Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193
		Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 7, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 7, 2017	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 7, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 7, 2017	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

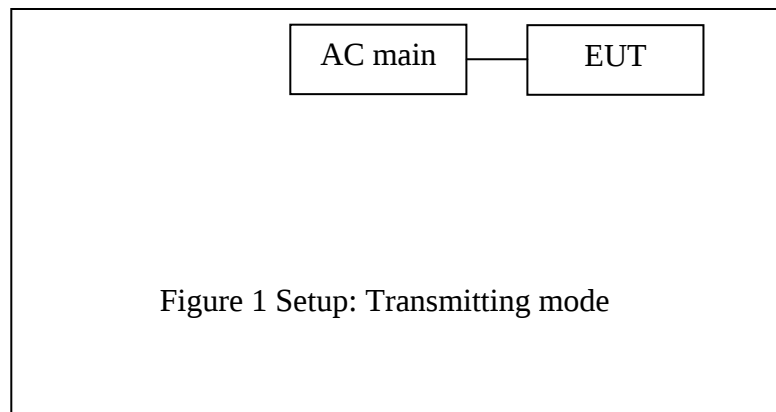
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

3.2.Configuration and peripherals



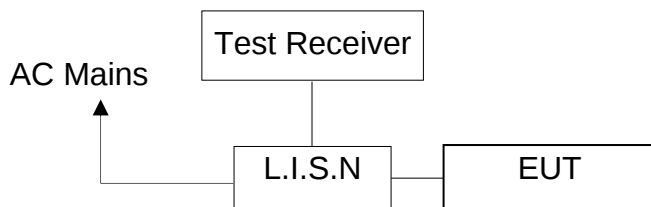
4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. POWER LINE CONDUCTED MEASUREMENT

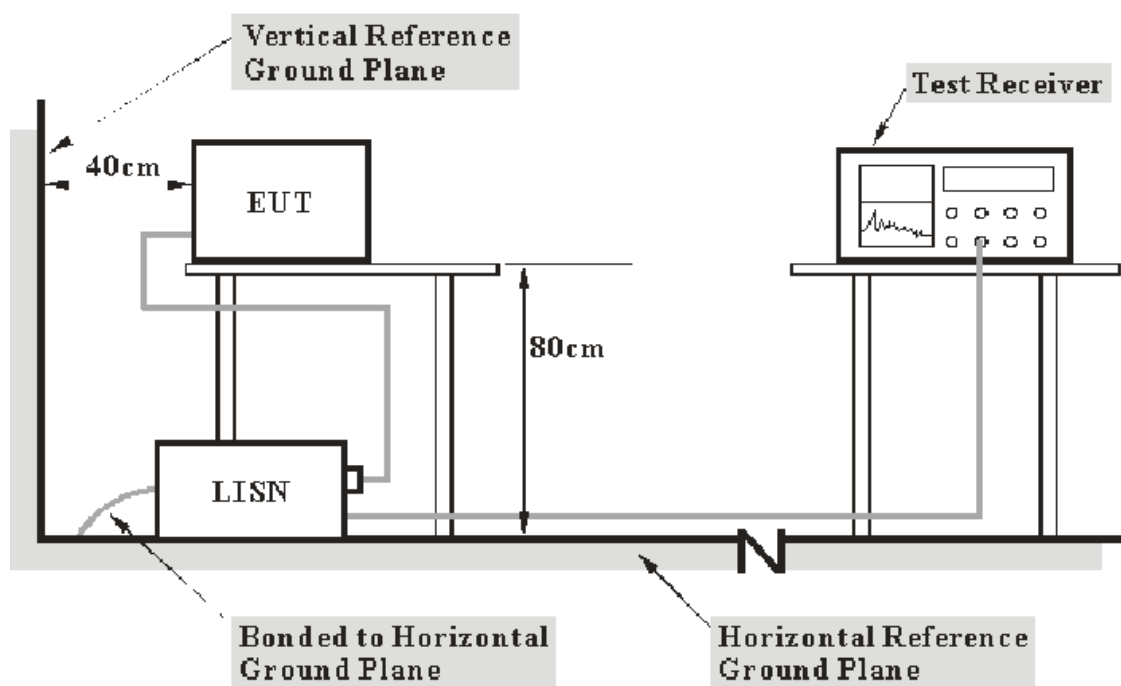
5.1. Block Diagram of Test

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Massage Chair)

5.1.2. Test System Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

5.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies.		
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

5.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.1 m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dB μ V)	Average Level (dB μ V)	QuasiPeak Limit (dB μ V)	Average Limit (dB μ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.150000	10.8	51.40	46.50	66.0	56.0	14.6	9.5	Pass

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dB μ V) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dB μ V) = Limit stated in standard

Margin = Limit (dB μ V) - Level (dB μ V)

Calculation Formula:

Margin = Limit (dB μ V) - Level (dB μ V)

5.7.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : BT communicating(AC 120V/60Hz)								
EUT mode : AG-6800A								
MEASUREMENT RESULT: "CM-0829004_fin"								
2017-8-29 9:52								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	51.40	10.8	66	14.6	QP	L1	GND	
0.682000	31.60	11.1	56	24.4	QP	L1	GND	
1.606000	37.30	11.2	56	18.7	QP	L1	GND	
2.150000	32.30	11.3	56	23.7	QP	L1	GND	
6.015000	33.40	11.5	60	26.6	QP	L1	GND	
13.435000	24.70	11.6	60	35.3	QP	L1	GND	
MEASUREMENT RESULT: "CM-0829004_fin2"								
2017-8-29 9:52								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	46.50	10.8	56	9.5	AV	L1	GND	
0.596000	25.00	11.0	46	21.0	AV	L1	GND	
1.908000	27.90	11.3	46	18.1	AV	L1	GND	
2.210000	26.10	11.3	46	19.9	AV	L1	GND	
8.120000	22.80	11.5	50	27.2	AV	L1	GND	
13.145000	17.70	11.6	50	32.3	AV	L1	GND	
MEASUREMENT RESULT: "CM-0829003_fin"								
2017-8-29 9:45								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	51.50	10.8	66	14.5	QP	N	GND	
0.646000	31.40	11.0	56	24.6	QP	N	GND	
1.468000	34.40	11.2	56	21.6	QP	N	GND	
2.125000	30.80	11.3	56	25.2	QP	N	GND	
7.120000	28.40	11.5	60	31.6	QP	N	GND	
13.290000	24.30	11.6	60	35.7	QP	N	GND	
MEASUREMENT RESULT: "CM-0829003_fin2"								
2017-8-29 9:45								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	46.40	10.8	56	9.6	AV	N	GND	
0.364000	25.00	10.9	49	23.6	AV	N	GND	
1.628000	29.00	11.2	46	17.0	AV	N	GND	
2.125000	25.30	11.3	46	20.7	AV	N	GND	
7.125000	20.60	11.5	50	29.4	AV	N	GND	
13.000000	20.00	11.6	50	30.0	AV	N	GND	

Test mode : BT communicating(AC 120V/60Hz)								
EUT mode : AG-6800A								
MEASUREMENT RESULT: "CM-0829004_fin"								
2017-8-29 9:52								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	51.40	10.8	66	14.6	QP	L1	GND	
0.682000	31.60	11.1	56	24.4	QP	L1	GND	
1.606000	37.30	11.2	56	18.7	QP	L1	GND	
2.150000	32.30	11.3	56	23.7	QP	L1	GND	
6.015000	33.40	11.5	60	26.6	QP	L1	GND	
13.435000	24.70	11.6	60	35.3	QP	L1	GND	
MEASUREMENT RESULT: "CM-0829004_fin2"								
2017-8-29 9:52								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	46.50	10.8	56	9.5	AV	L1	GND	
0.596000	25.00	11.0	46	21.0	AV	L1	GND	
1.908000	27.90	11.3	46	18.1	AV	L1	GND	
2.210000	26.10	11.3	46	19.9	AV	L1	GND	
8.120000	22.80	11.5	50	27.2	AV	L1	GND	
13.145000	17.70	11.6	50	32.3	AV	L1	GND	
MEASUREMENT RESULT: "CM-0829003_fin"								
2017-8-29 9:45								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	51.50	10.8	66	14.5	QP	N	GND	
0.646000	31.40	11.0	56	24.6	QP	N	GND	
1.468000	34.40	11.2	56	21.6	QP	N	GND	
2.125000	30.80	11.3	56	25.2	QP	N	GND	
7.120000	28.40	11.5	60	31.6	QP	N	GND	
13.290000	24.30	11.6	60	35.7	QP	N	GND	
MEASUREMENT RESULT: "CM-0829003_fin2"								
2017-8-29 9:45								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	46.40	10.8	56	9.6	AV	N	GND	
0.364000	25.00	10.9	49	23.6	AV	N	GND	
1.628000	29.00	11.2	46	17.0	AV	N	GND	
2.125000	25.30	11.3	46	20.7	AV	N	GND	
7.125000	20.60	11.5	50	29.4	AV	N	GND	
13.000000	20.00	11.6	50	30.0	AV	N	GND	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

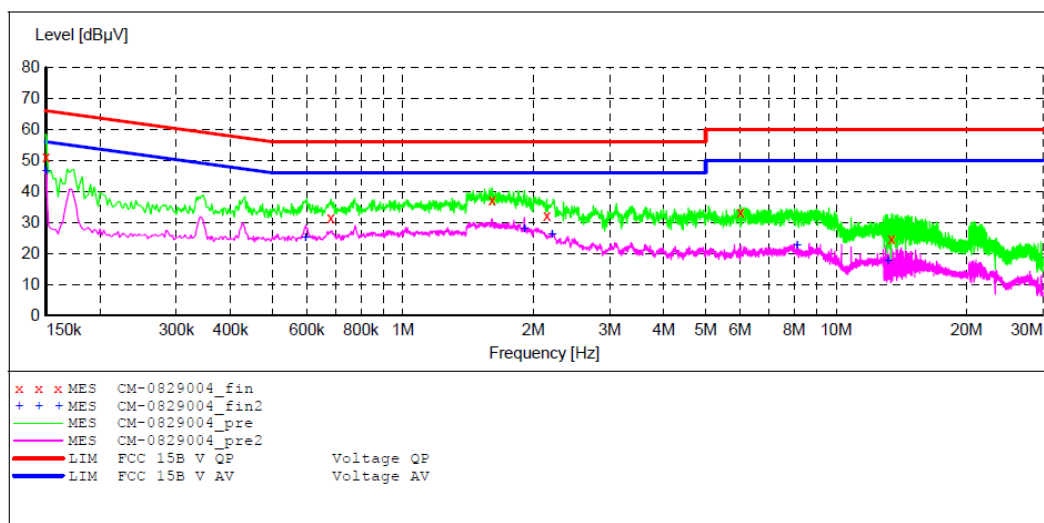
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Massage Chair M/N:AG-6800A
 Manufacturer: COMFORT
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20171812
 Start of Test: 2017-8-29 / 9:51:12

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "CM-0829004_fin"

2017-8-29 9:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	51.40	10.8	66	14.6	QP	L1	GND
0.682000	31.60	11.1	56	24.4	QP	L1	GND
1.606000	37.30	11.2	56	18.7	QP	L1	GND
2.150000	32.30	11.3	56	23.7	QP	L1	GND
6.015000	33.40	11.5	60	26.6	QP	L1	GND
13.435000	24.70	11.6	60	35.3	QP	L1	GND

MEASUREMENT RESULT: "CM-0829004_fin2"

2017-8-29 9:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	46.50	10.8	56	9.5	AV	L1	GND
0.596000	25.00	11.0	46	21.0	AV	L1	GND
1.908000	27.90	11.3	46	18.1	AV	L1	GND
2.210000	26.10	11.3	46	19.9	AV	L1	GND
8.120000	22.80	11.5	50	27.2	AV	L1	GND
13.145000	17.70	11.6	50	32.3	AV	L1	GND

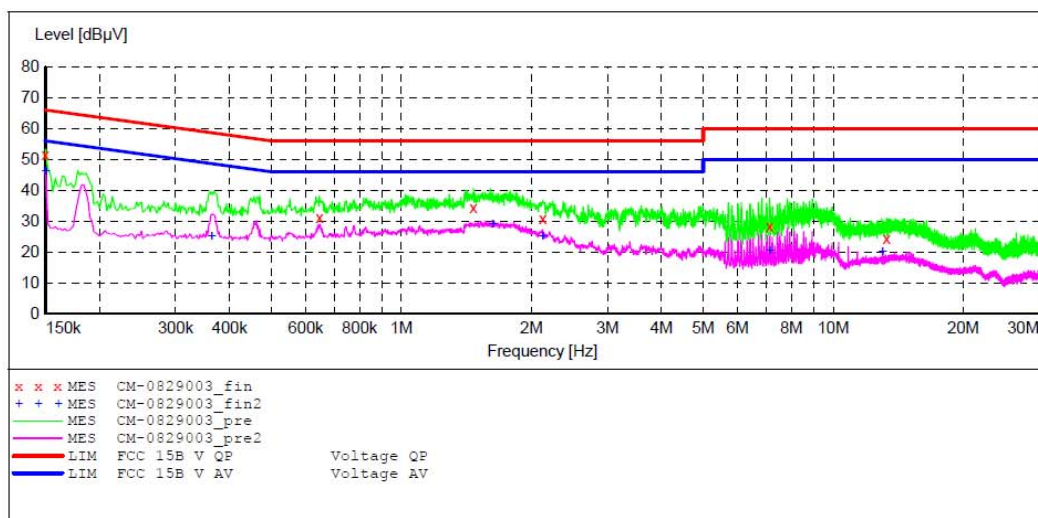
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Massage Chair M/N:AG-6800A
 Manufacturer: COMFORT
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20171812
 Start of Test: 2017-8-29 / 9:41:47

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "CM-0829003_fin"

2017-8-29 9:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	51.50	10.8	66	14.5	QP	N	GND
0.646000	31.40	11.0	56	24.6	QP	N	GND
1.468000	34.40	11.2	56	21.6	QP	N	GND
2.125000	30.80	11.3	56	25.2	QP	N	GND
7.120000	28.40	11.5	60	31.6	QP	N	GND
13.290000	24.30	11.6	60	35.7	QP	N	GND

MEASUREMENT RESULT: "CM-0829003_fin2"

2017-8-29 9:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	46.40	10.8	56	9.6	AV	N	GND
0.364000	25.00	10.9	49	23.6	AV	N	GND
1.628000	29.00	11.2	46	17.0	AV	N	GND
2.125000	25.30	11.3	46	20.7	AV	N	GND
7.125000	20.60	11.5	50	29.4	AV	N	GND
13.000000	20.00	11.6	50	30.0	AV	N	GND

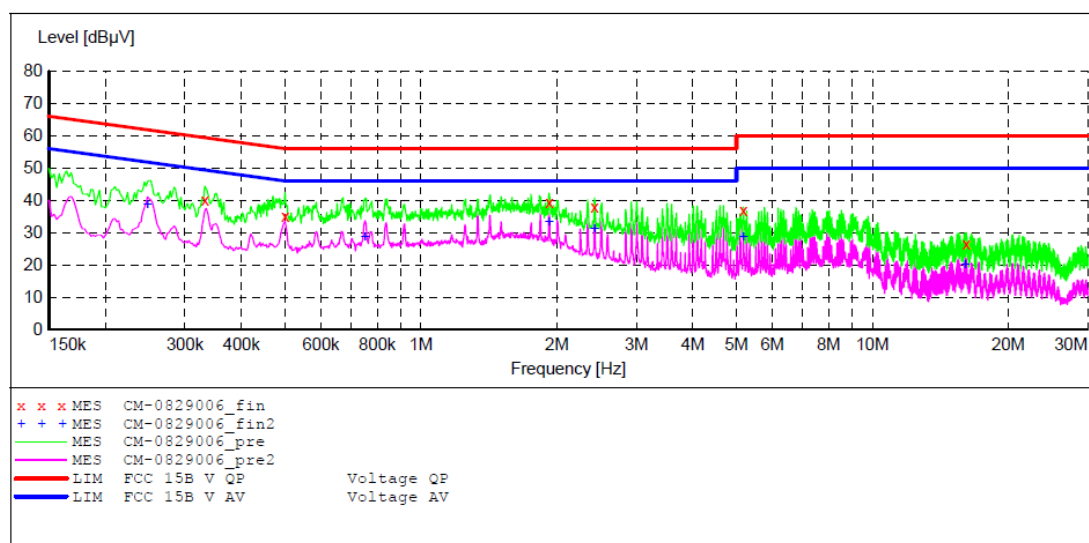
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Massage Chair M/N:AG-6800A
 Manufacturer: COMFORT
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: N 240V/60Hz
 Comment: Report NO.:ATE20171812
 Start of Test: 2017-8-29 / 9:58:06

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "CM-0829006_fin"

2017-8-29 10:00

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.332000	40.20	10.9	59	19.2	QP	N	GND
0.500000	35.00	11.0	56	21.0	QP	N	GND
1.924000	39.40	11.3	56	16.6	QP	N	GND
2.425000	38.00	11.3	56	18.0	QP	N	GND
5.180000	37.10	11.4	60	22.9	QP	N	GND
16.135000	26.60	11.7	60	33.4	QP	N	GND

MEASUREMENT RESULT: "CM-0829006_fin2"

2017-8-29 10:00

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.248000	38.80	10.9	52	13.0	AV	N	GND
0.752000	28.60	11.1	46	17.4	AV	N	GND
1.922000	33.50	11.3	46	12.5	AV	N	GND
2.425000	31.20	11.3	46	14.8	AV	N	GND
5.180000	28.70	11.4	50	21.3	AV	N	GND
16.045000	20.30	11.7	50	29.7	AV	N	GND

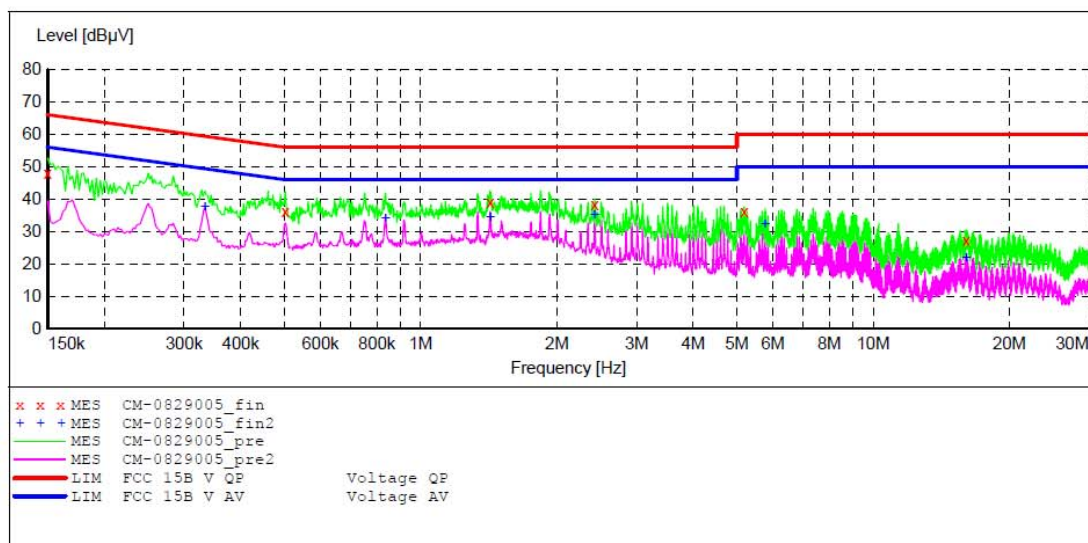
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Massage Chair M/N:AG-6800A
 Manufacturer: COMFORT
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: L 240V/60Hz
 Comment: Report NO.:ATE20171812
 Start of Test: 2017-8-29 / 9:54:11

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "CM-0829005_fin"

2017-8-29 9:57

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	48.10	10.8	66	17.9	QP	L1	GND
0.502000	36.40	11.0	56	19.6	QP	L1	GND
1.424000	39.10	11.2	56	16.9	QP	L1	GND
2.425000	38.50	11.3	56	17.5	QP	L1	GND
5.185000	36.10	11.4	60	23.9	QP	L1	GND
16.060000	27.20	11.7	60	32.8	QP	L1	GND

MEASUREMENT RESULT: "CM-0829005_fin2"

2017-8-29 9:57

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.334000	37.60	10.9	49	11.8	AV	L1	GND
0.836000	34.10	11.1	46	11.9	AV	L1	GND
1.424000	34.60	11.2	46	11.4	AV	L1	GND
2.425000	35.20	11.3	46	10.8	AV	L1	GND
5.770000	32.20	11.5	50	17.8	AV	L1	GND
16.060000	21.90	11.7	50	28.1	AV	L1	GND

6. 6DB BANDWIDTH MEASUREMENT

6.1. Block Diagram of Test Setup



(EUT: Massage Chair)

6.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

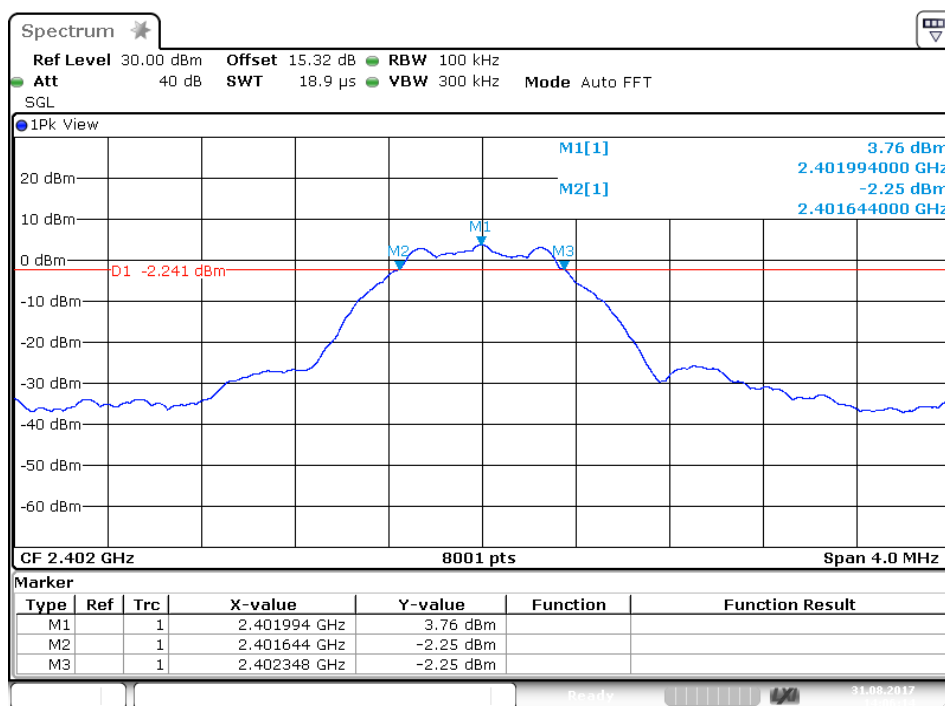
6.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

6.6.Test Result

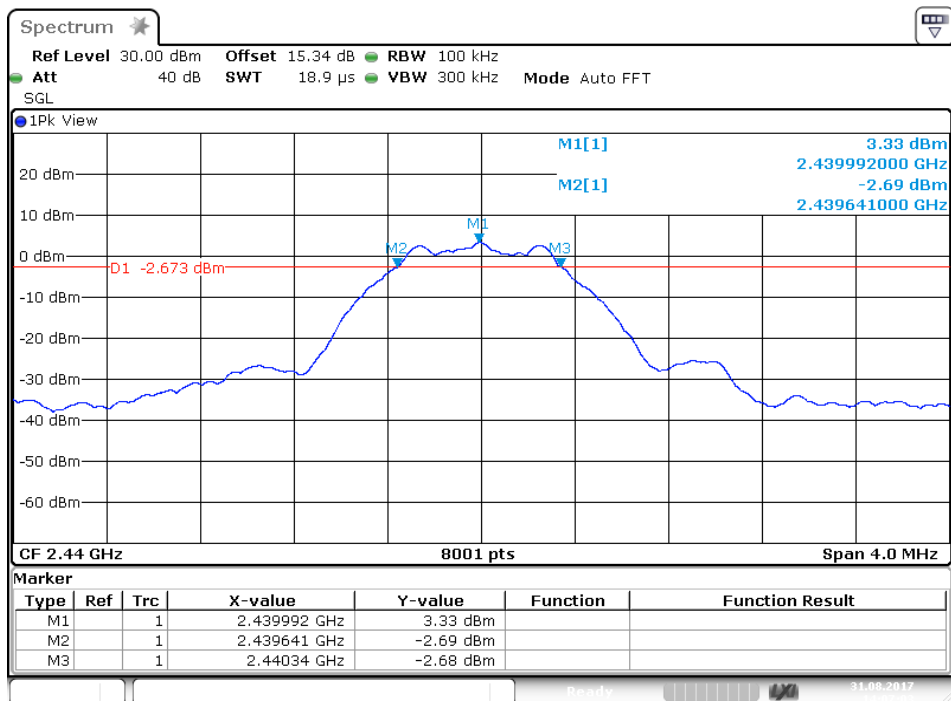
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.704	0.5	PASS
19	2440	0.699	0.5	PASS
39	2480	0.697	0.5	PASS

The spectrum analyzer plots are attached as below.

channel 0

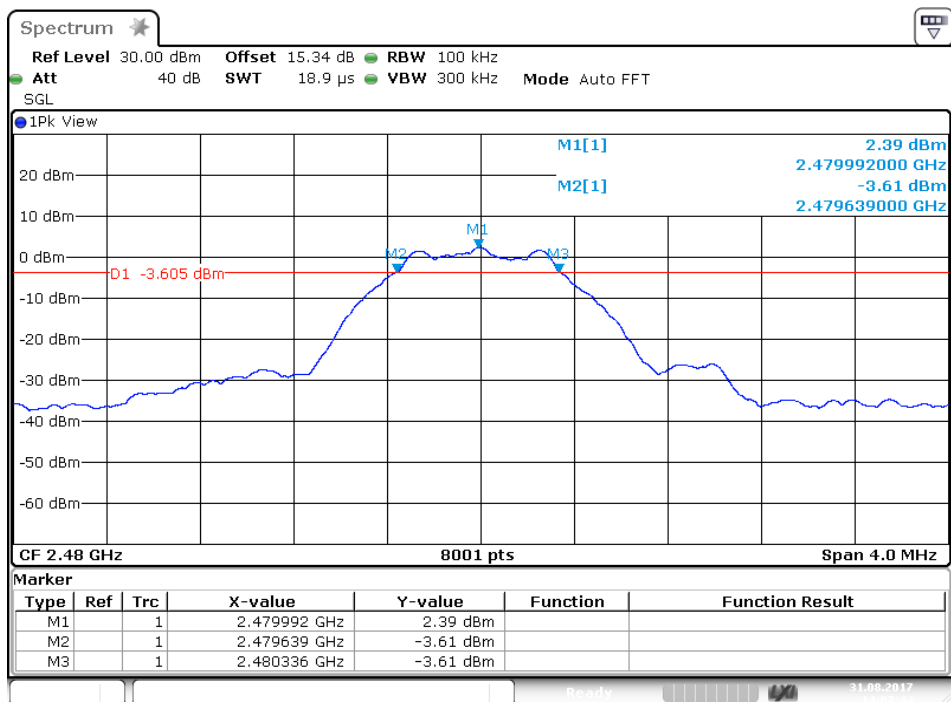


channel 19



Date: 31.AUG.2017 14:07:03

channel 39



Date: 31.AUG.2017 14:07:44

7. MAXIMUM PEAK OUTPUT POWER

7.1. Block Diagram of Test Setup



(EUT: Massage Chair)

7.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 3 MHz and VBW to 3 MHz.

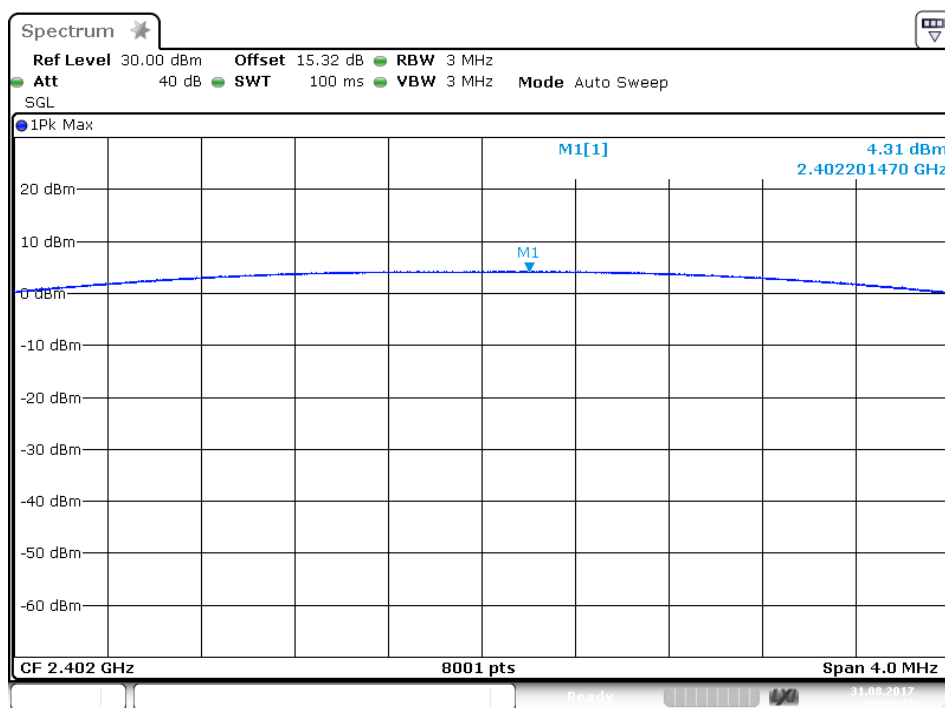
7.5.3. Measurement the maximum peak output power.

7.6. Test Result

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	4.31	30	PASS
19	2440	3.81	30	PASS
39	2480	2.94	30	PASS

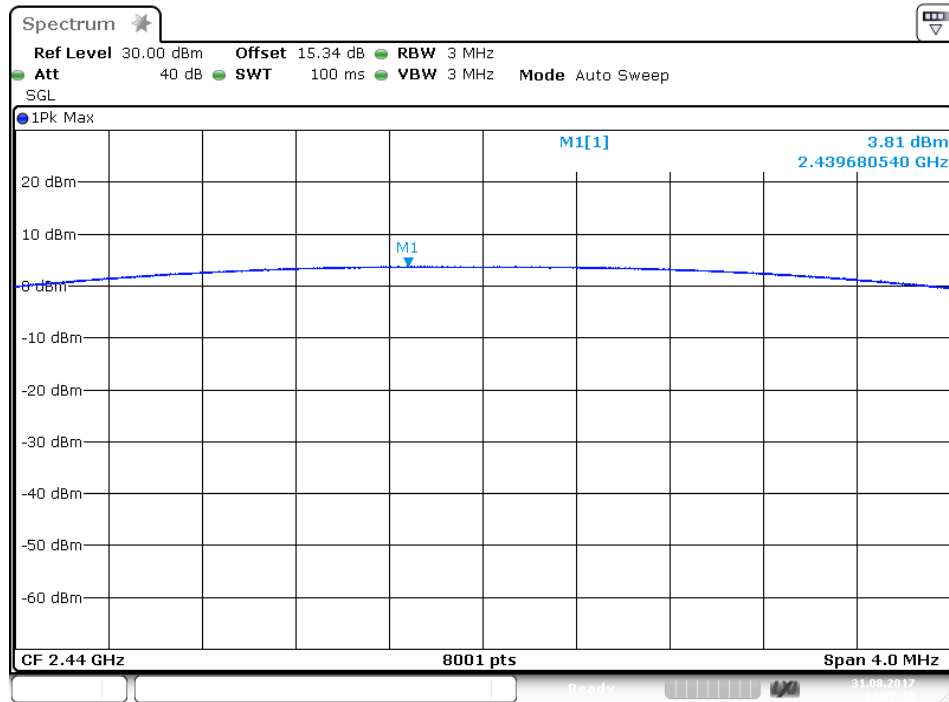
The spectrum analyzer plots are attached as below.

channel 0



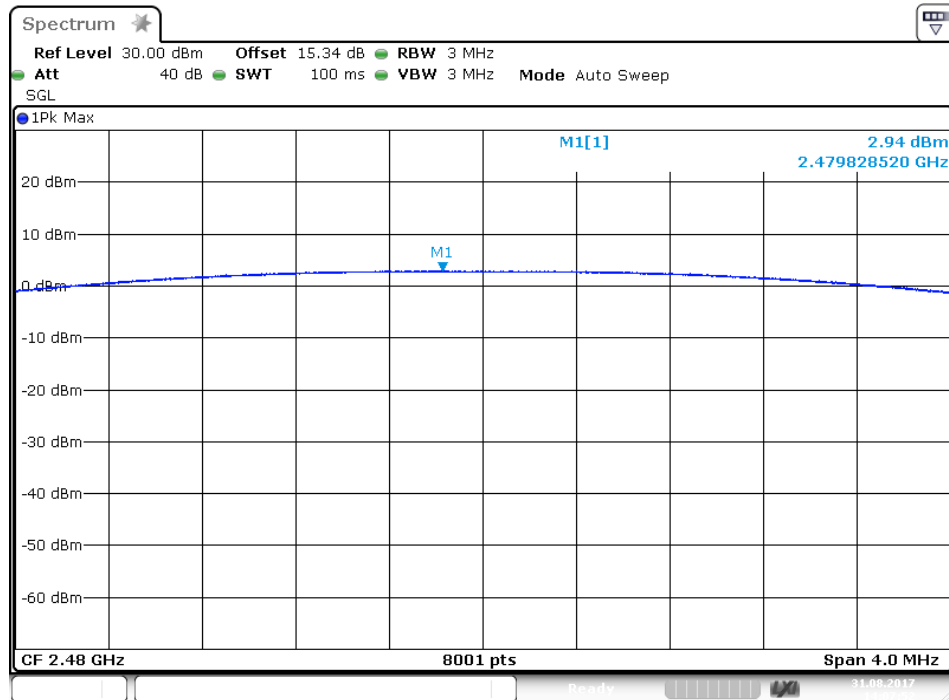
Date: 31.AUG.2017 14:06:22

channel 19



Date: 31.AUG.2017 14:07:10

channel 39



Date: 31.AUG.2017 14:07:52

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Block Diagram of Test Setup



(EUT: Massage Chair)

8.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Measurement Procedure PKPSD:

8.5.3. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

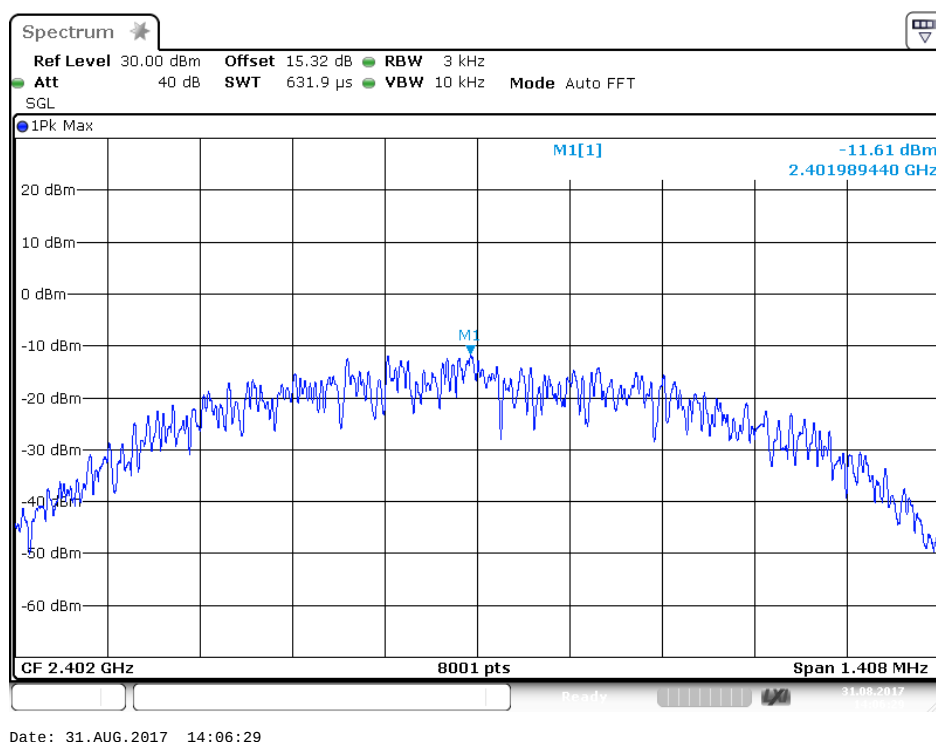
8.5.4. Measurement the maximum power spectral density.

8.6.Test Result

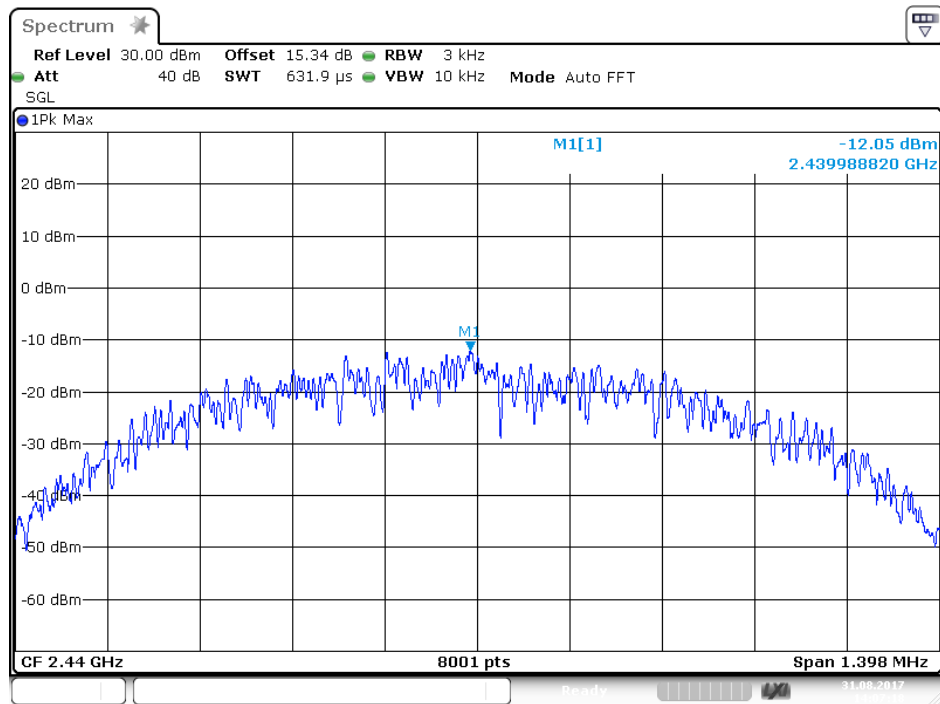
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-11.61	8	PASS
19	2440	-12.05	8	PASS
39	2480	-12.81	8	PASS

The spectrum analyzer plots are attached as below.

channel 0

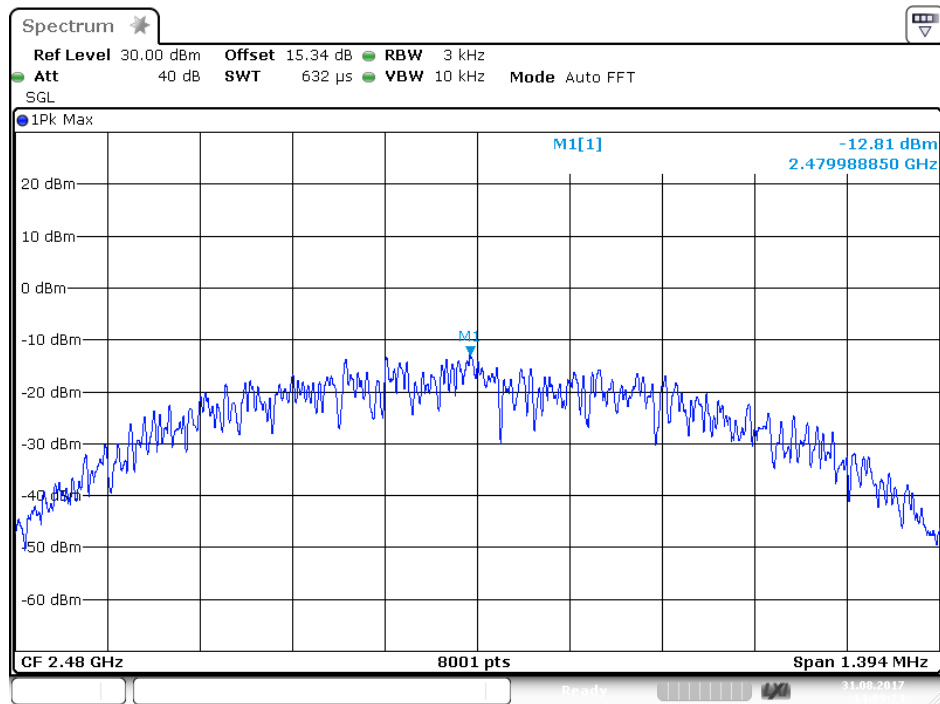


channel 19



Date: 31.AUG.2017 14:07:18

channel 39



Date: 31.AUG.2017 14:09:24

9. BAND EDGE COMPLIANCE TEST

9.1. Block Diagram of Test Setup



(EUT: Massage Chair)

9.2. The Requirement For Section 15.247(d)

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, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5. Test Procedure

Conducted Band Edge:

9.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4. The EUT is placed on a turntable, which is 0.1m above the ground plane and worked at highest radiated power.

9.5.5. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8. RBW=1MHz, VBW=1MHz

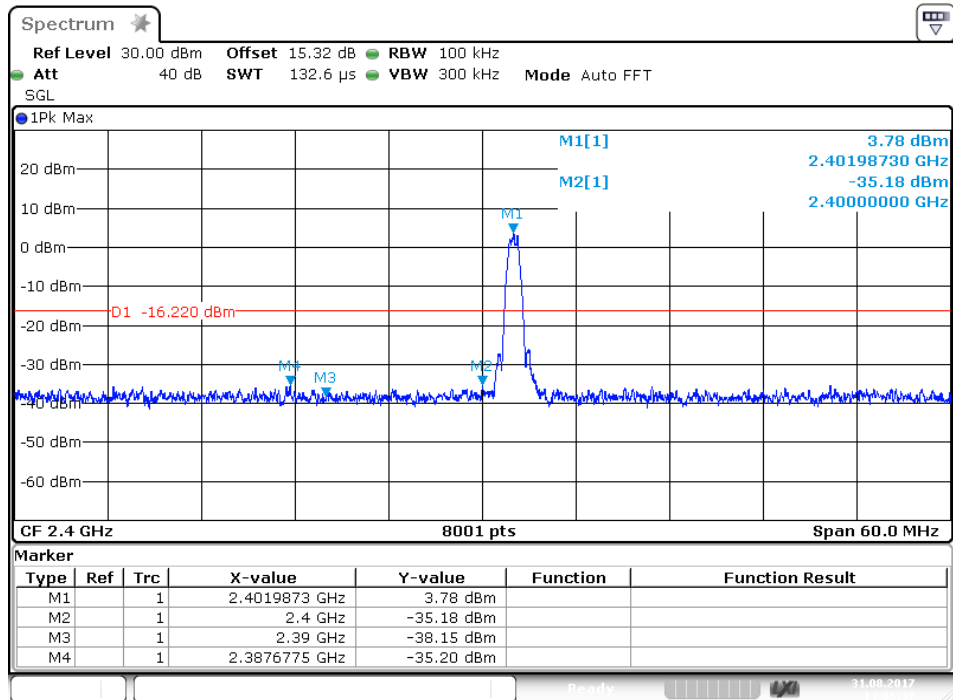
9.5.9. The band edges was measured and recorded.

9.6. Test Result

Pass

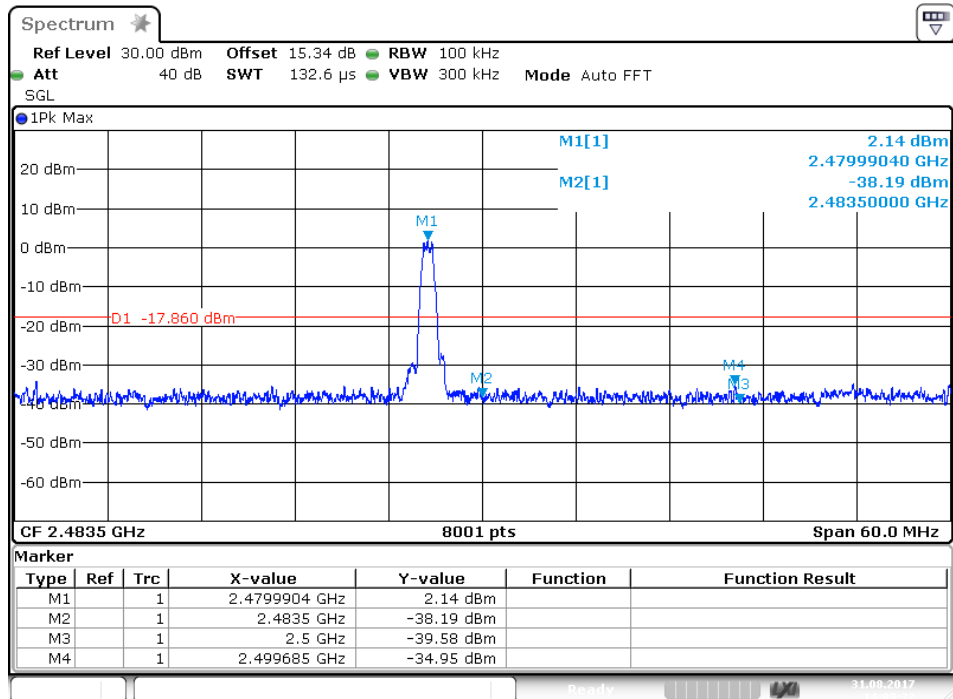
Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	31.40	20
39	2.4835GHz	36.05	20

channel 0



Date: 31.AUG.2017 14:06:37

channel 39



Date: 31.AUG.2017 14:09:32

Radiated Band Edge Result

Date of Test:	September 15, 2017	Temperature:	25°C
EUT:	Massage Chair	Humidity:	50%
Model No.:	AG-6800A	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2402MHz) GFSK	Test Engineer:	Ding

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2390.000	31.76	40.30	-5.89	25.87	34.41	54.00	74.00	-28.13	-39.59	Vertical
2400.000	44.61	54.02	-5.80	38.81	48.22	54.00	74.00	-15.19	-25.78	Vertical
2390.000	31.75	40.39	-5.89	25.86	34.50	54.00	74.00	-28.14	-39.50	Horizontal
2400.000	40.91	49.52	-5.80	35.11	43.72	54.00	74.00	-18.89	-30.28	Horizontal

Date of Test:	September 15, 2017	Temperature:	25°C
EUT:	Massage Chair	Humidity:	50%
Model No.:	AG-6800A	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2480MHz) GFSK	Test Engineer:	Ding

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	32.86	41.74	-5.51	27.35	36.23	54.00	74.00	-26.65	-37.77	Vertical
2500.000	31.91	40.35	-5.50	26.41	34.85	54.00	74.00	-27.59	-39.15	Vertical
2483.500	33.78	42.36	-5.51	28.27	36.85	54.00	74.00	-25.73	-37.15	Horizontal
2500.000	29.64	38.90	-5.50	24.14	33.40	54.00	74.00	-29.86	-40.60	Horizontal

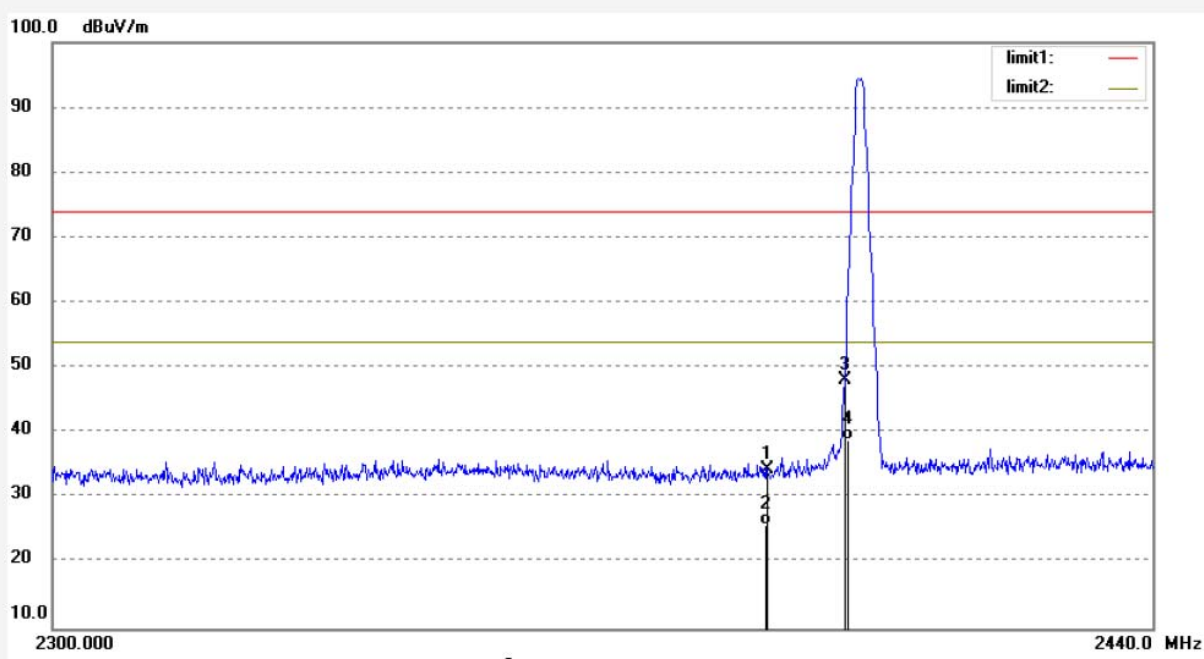
Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Job No.: CORNLEY #100
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2402MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 11/39/26
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812

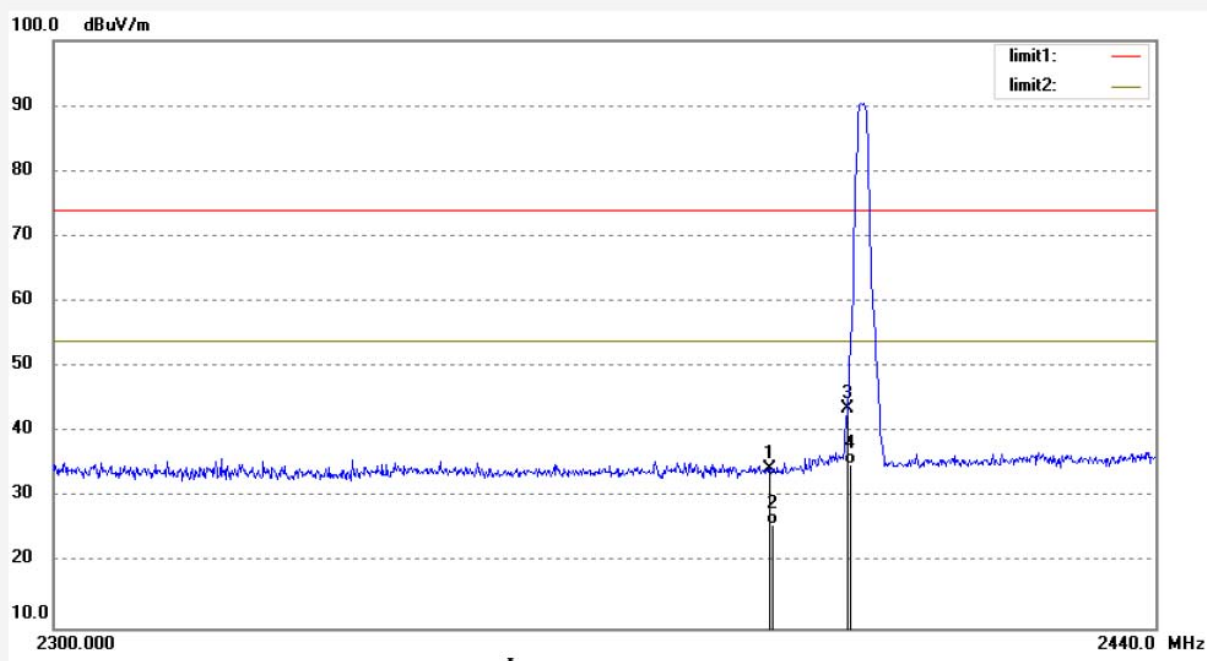


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.30	-5.89	34.41	74.00	-39.59	peak	150	230	
2	2390.000	31.76	-5.89	25.87	54.00	-28.13	AVG	150	230	
3	2400.000	54.02	-5.80	48.22	74.00	-25.78	peak	150	131	
4	2400.000	44.61	-5.80	38.81	54.00	-15.19	AVG	150	131	

Job No.: CORNLEY #101
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2402MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 11/40/34
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.39	-5.89	34.50	74.00	-39.50	peak	150	202	
2	2390.000	31.75	-5.89	25.86	54.00	-28.14	AVG	150	202	
3	2400.000	49.52	-5.80	43.72	74.00	-30.28	peak	150	147	
4	2400.000	40.91	-5.80	35.11	54.00	-18.89	AVG	150	147	



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

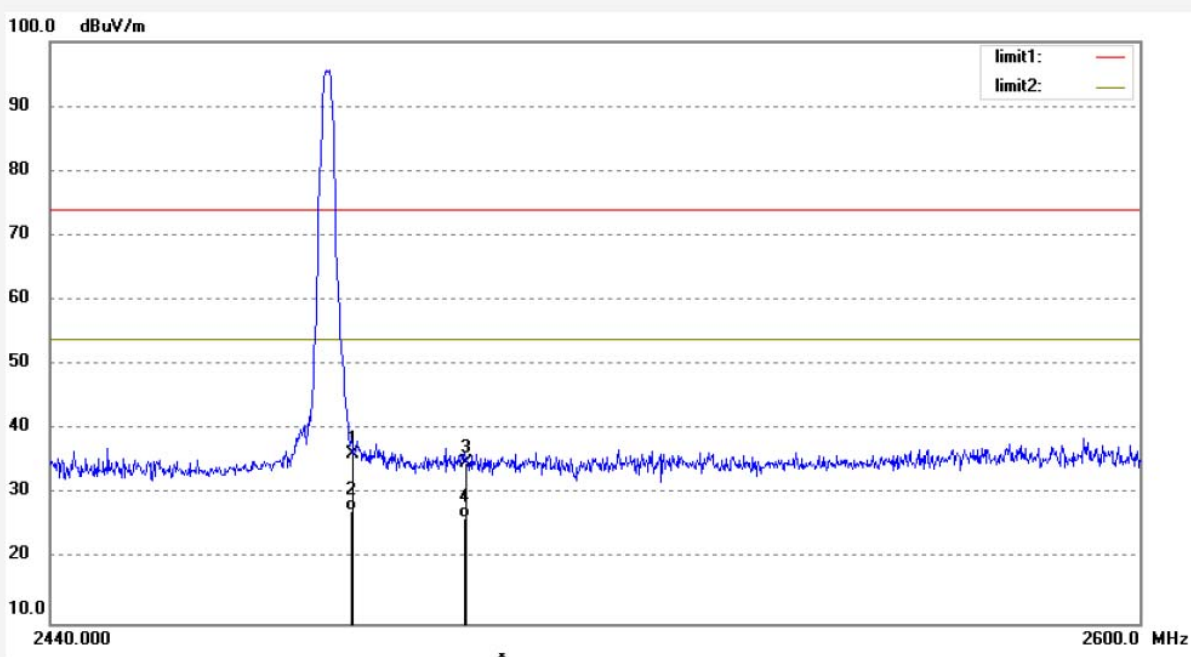
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: CORNLEY #108
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2480MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 13/40/11
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812

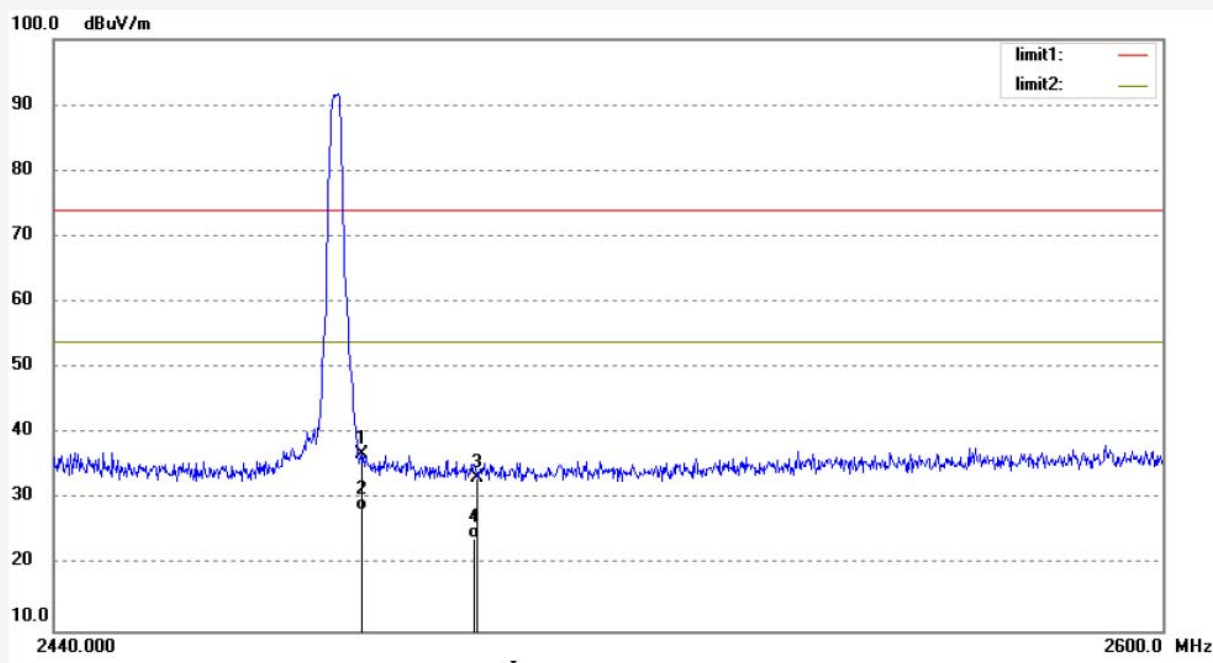


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	41.74	-5.51	36.23	74.00	-37.77	peak	150	334	
2	2483.500	32.86	-5.51	27.35	54.00	-26.65	AVG	150	334	
3	2500.000	40.35	-5.50	34.85	74.00	-39.15	peak	150	247	
4	2500.000	31.91	-5.50	26.41	54.00	-27.59	AVG	150	247	

Job No.: CORNLEY #109
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2480MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 13/43/22
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	42.36	-5.51	36.85	74.00	-37.15	peak	150	102	
2	2483.500	33.78	-5.51	28.27	54.00	-25.73	AVG	150	102	
3	2500.000	38.90	-5.50	33.40	74.00	-40.60	peak	150	227	
4	2500.000	29.64	-5.50	24.14	54.00	-29.86	AVG	150	227	

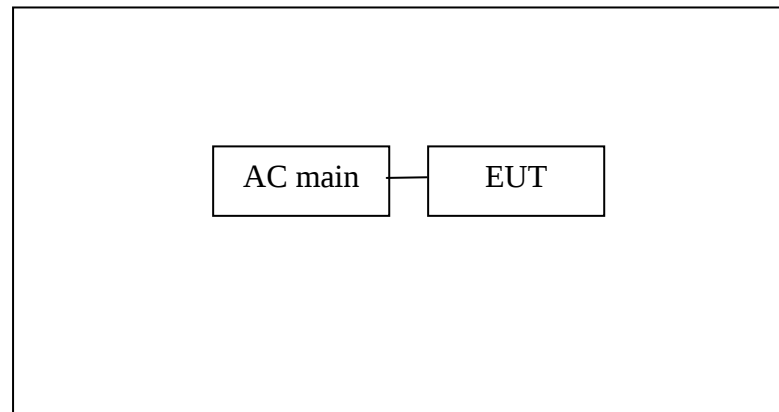
Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

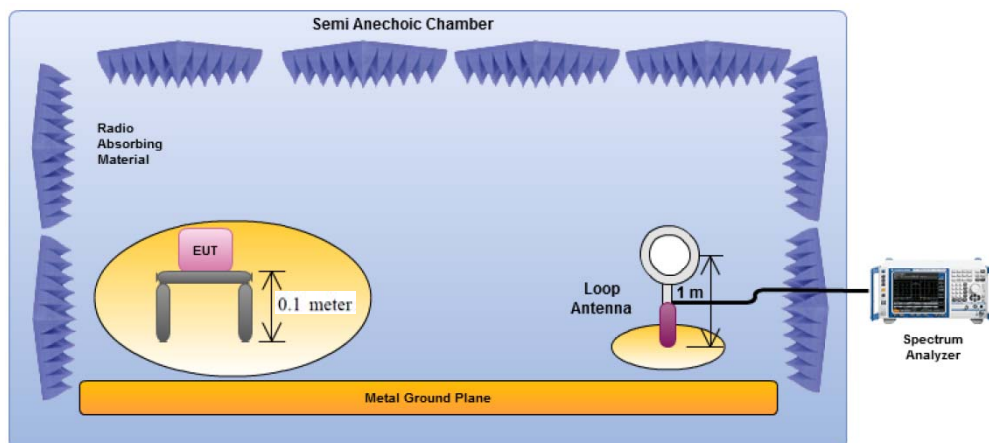


Setup: Transmitting mode

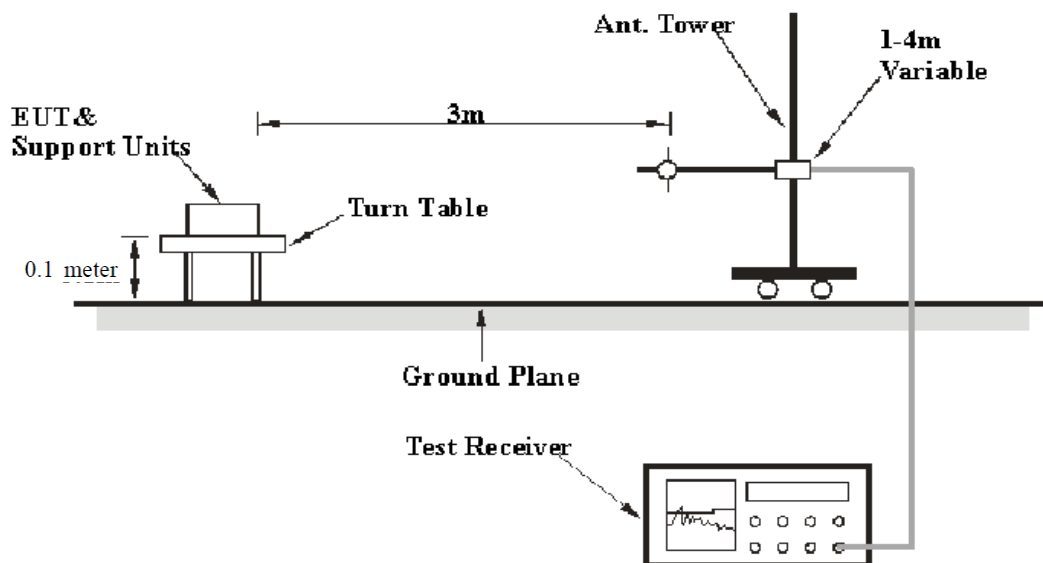
(EUT: Massage Chair)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

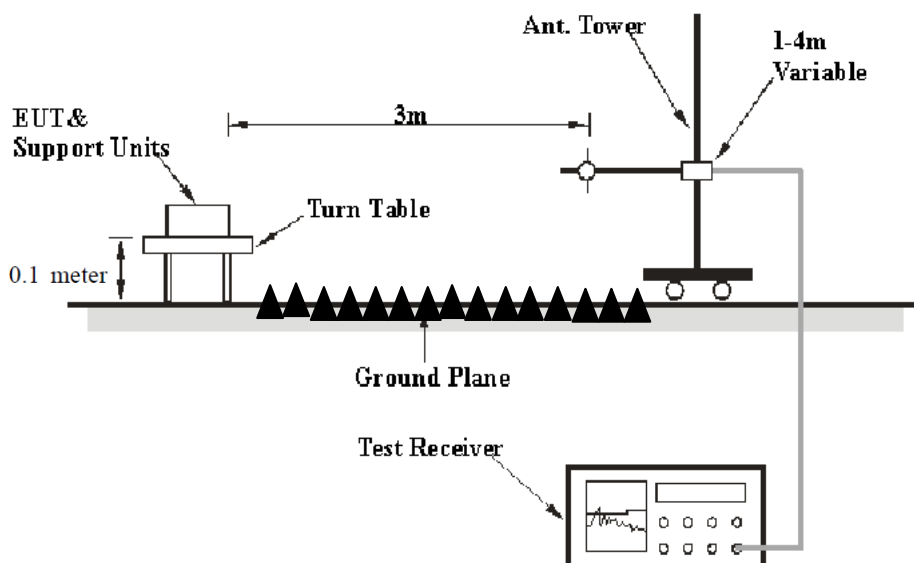
Below 30MHz



Below 1GHz:



Above 1GHz:



10.2.The Limit For Section 15.247(d)

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, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging

over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 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			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5. Operating Condition of EUT

10.5.1. Setup the EUT and simulator as shown as Section 10.1.

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.1 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 0.1 meter high above ground (Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.7.Data Sample

Frequency (MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
78.5456	58.61	-22.09	36.52	40.00	-3.48	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

10.8.The Field Strength of Radiation Emission Measurement Results

PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

Job No.: CORNLEY #115

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2402MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

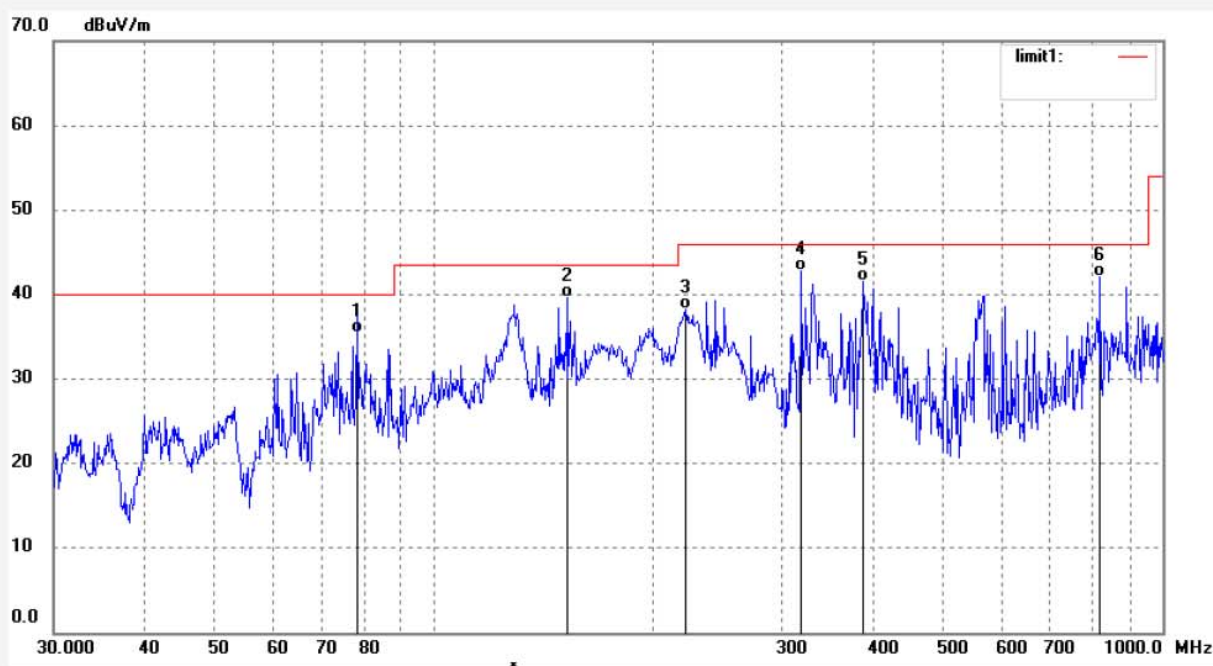
Date: 17/09/12/

Time: 10/25/40

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.2887	57.49	-22.10	35.39	40.00	-4.61	QP	100	222	
2	152.6254	61.79	-22.13	39.66	43.50	-3.84	QP	100	241	
3	221.5010	56.54	-18.37	38.17	46.00	-7.83	QP	100	320	
4	319.2071	58.01	-15.15	42.86	46.00	-3.14	QP	100	106	
5	387.2565	54.77	-13.17	41.60	46.00	-4.40	QP	100	28	
6	821.3871	45.81	-3.78	42.03	46.00	-3.97	QP	100	34	



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Job No.: CORNLEY #114

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2402MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

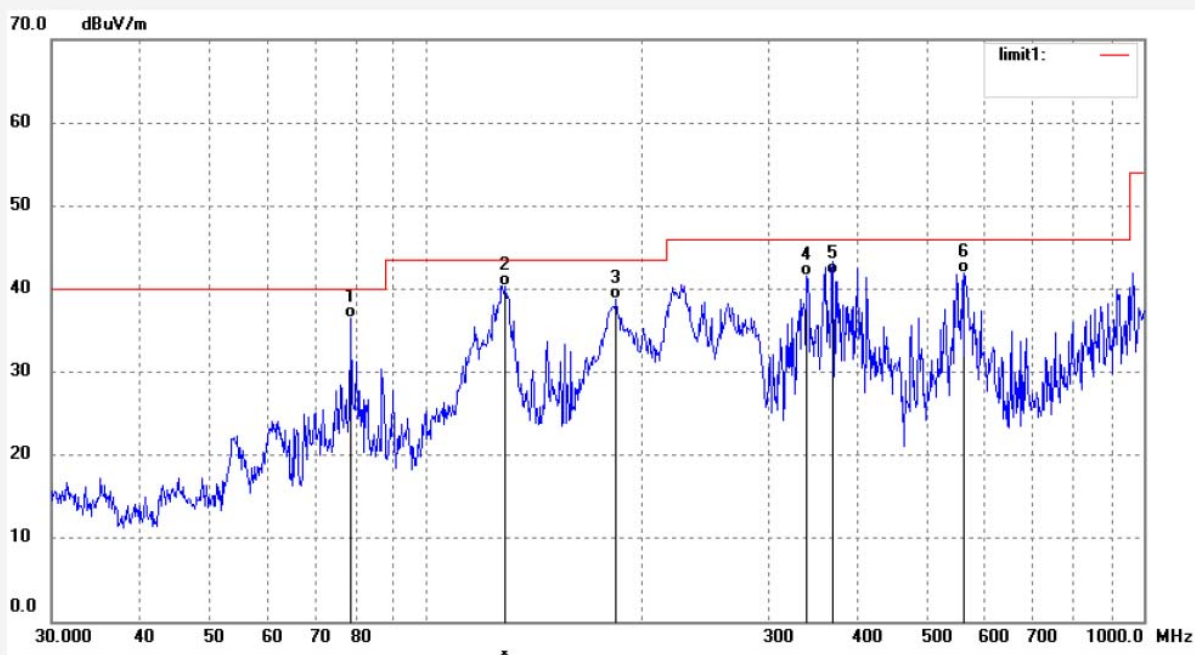
Date: 17/09/12/

Time: 10/22/27

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.5644	58.61	-22.09	36.52	40.00	-3.48	QP	100	147	
2	128.9385	62.51	-22.11	40.40	43.50	-3.10	QP	100	247	
3	183.8660	58.70	-19.95	38.75	43.50	-4.75	QP	100	136	
4	338.8546	55.85	-14.29	41.56	46.00	-4.44	QP	100	124	
5	368.6681	55.14	-13.36	41.78	46.00	-4.22	QP	100	113	
6	562.0143	51.34	-9.39	41.95	46.00	-4.05	QP	100	57	

Job No.: CORNLEY #113

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2440MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

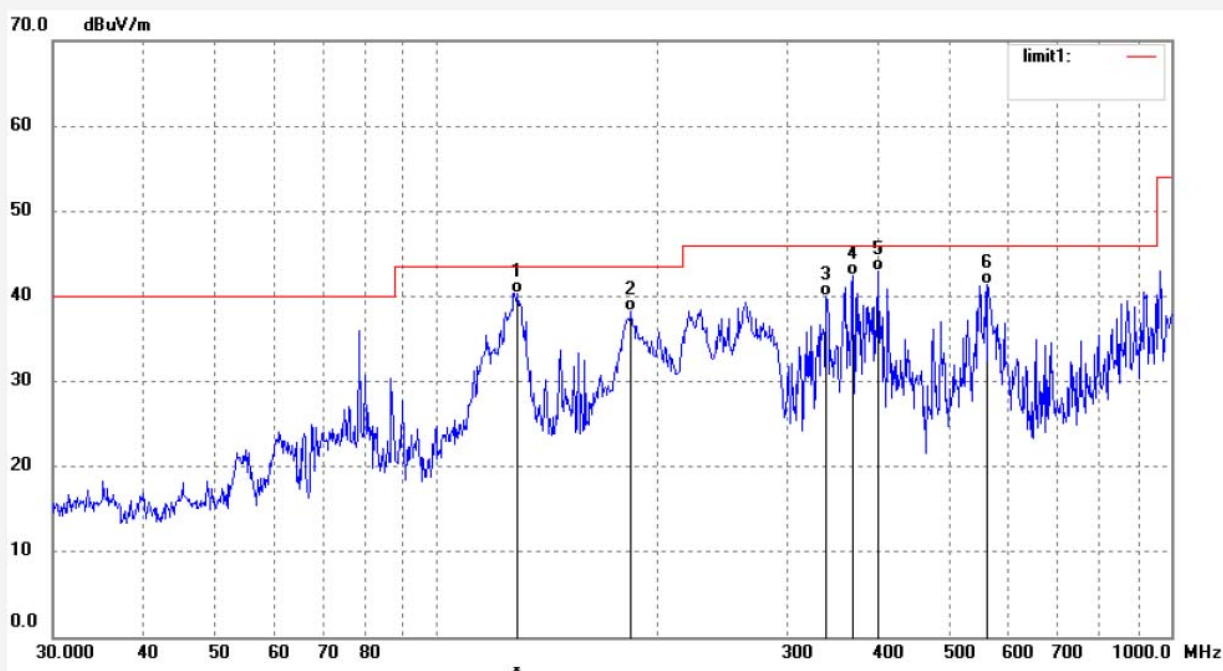
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Time: 10/19/33

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	128.9385	62.51	-22.11	40.40	43.50	-3.10	QP	100	101	
2	183.8660	58.20	-19.95	38.25	43.50	-5.25	QP	100	150	
3	338.8546	54.35	-14.29	40.06	46.00	-5.94	QP	100	24	
4	368.6681	55.72	-13.36	42.36	46.00	-3.64	QP	100	62	
5	398.2961	55.91	-13.03	42.88	46.00	-3.12	QP	100	115	
6	562.0143	50.84	-9.39	41.45	46.00	-4.55	QP	100	222	



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Job No.: CORNLEY #112

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2440MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

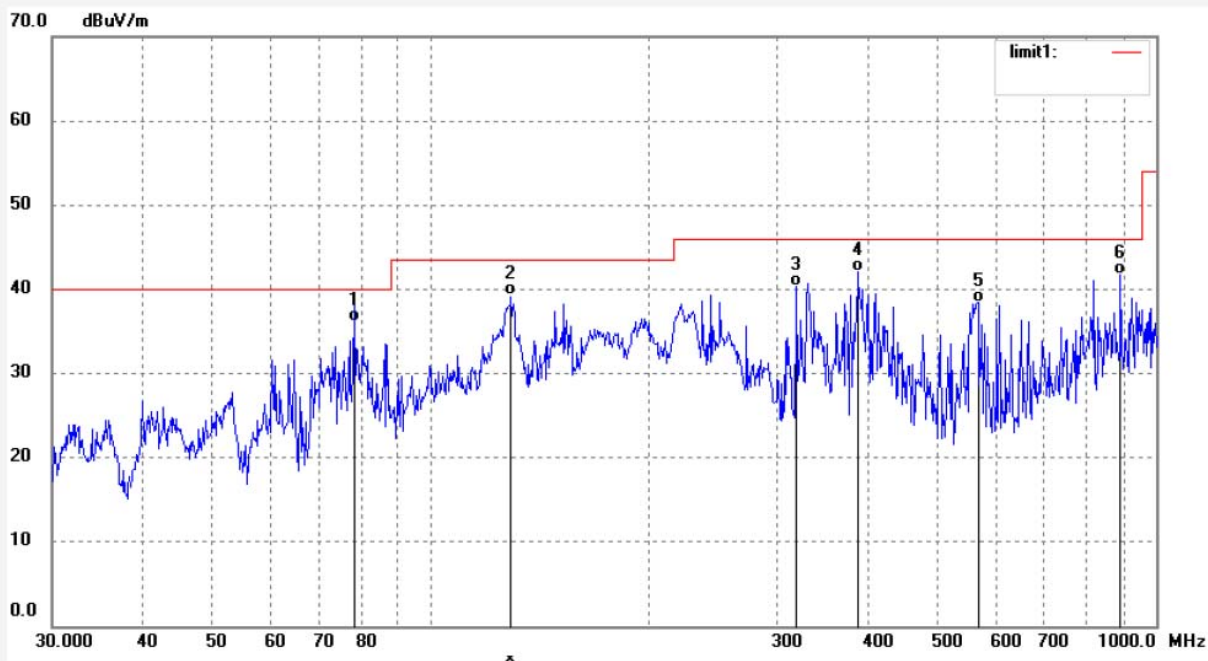
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Time: 10/16/56

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.2887	58.31	-22.10	36.21	40.00	-3.79	QP	100	150	
2	128.9385	61.31	-22.11	39.20	43.50	-4.30	QP	100	267	
3	319.2071	55.51	-15.15	40.36	46.00	-5.64	QP	100	119	
4	387.2565	55.27	-13.17	42.10	46.00	-3.90	QP	100	247	
5	567.9696	47.61	-9.22	38.39	46.00	-7.61	QP	100	114	
6	893.6557	44.23	-2.42	41.81	46.00	-4.19	QP	100	26	



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Job No.: CORNLEY #111

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2480MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

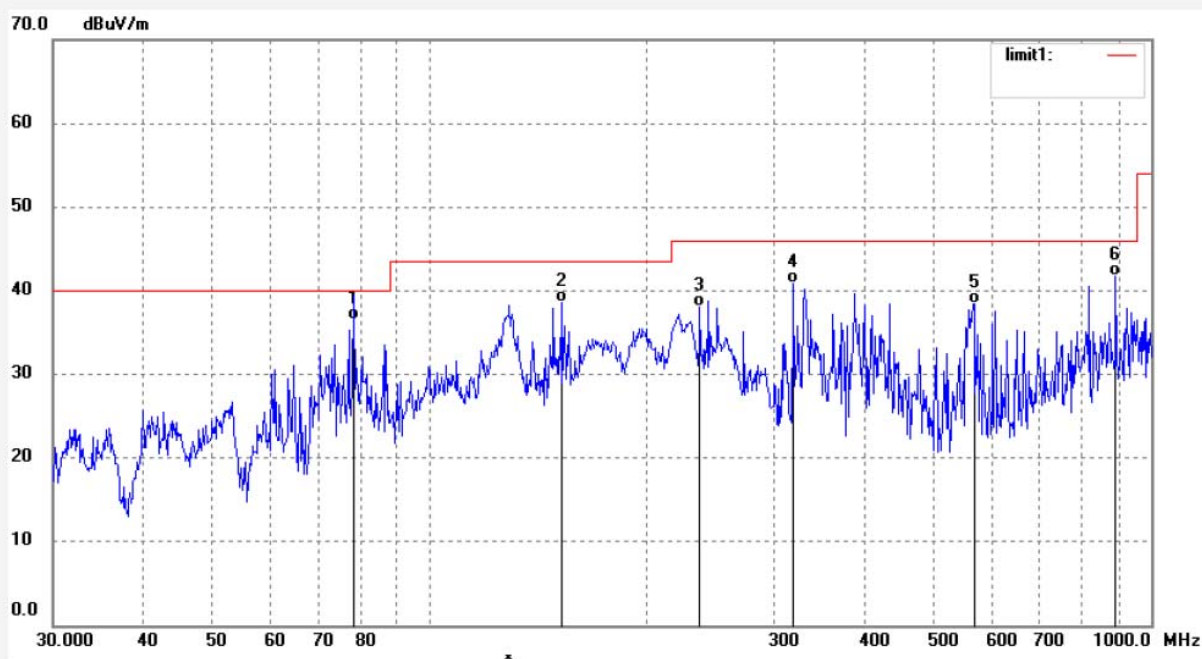
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Time: 10/14/40

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.2888	58.56	-22.10	36.46	40.00	-3.54	QP	100	57	
2	152.6254	60.79	-22.13	38.66	43.50	-4.84	QP	100	35	
3	236.7924	56.29	-18.22	38.07	46.00	-7.93	QP	100	34	
4	319.2071	56.01	-15.15	40.86	46.00	-5.14	QP	100	147	
5	567.9696	47.61	-9.22	38.39	46.00	-7.61	QP	100	117	
6	893.6557	44.23	-2.42	41.81	46.00	-4.19	QP	100	222	



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Job No.: CORNLEY #110

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2480MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

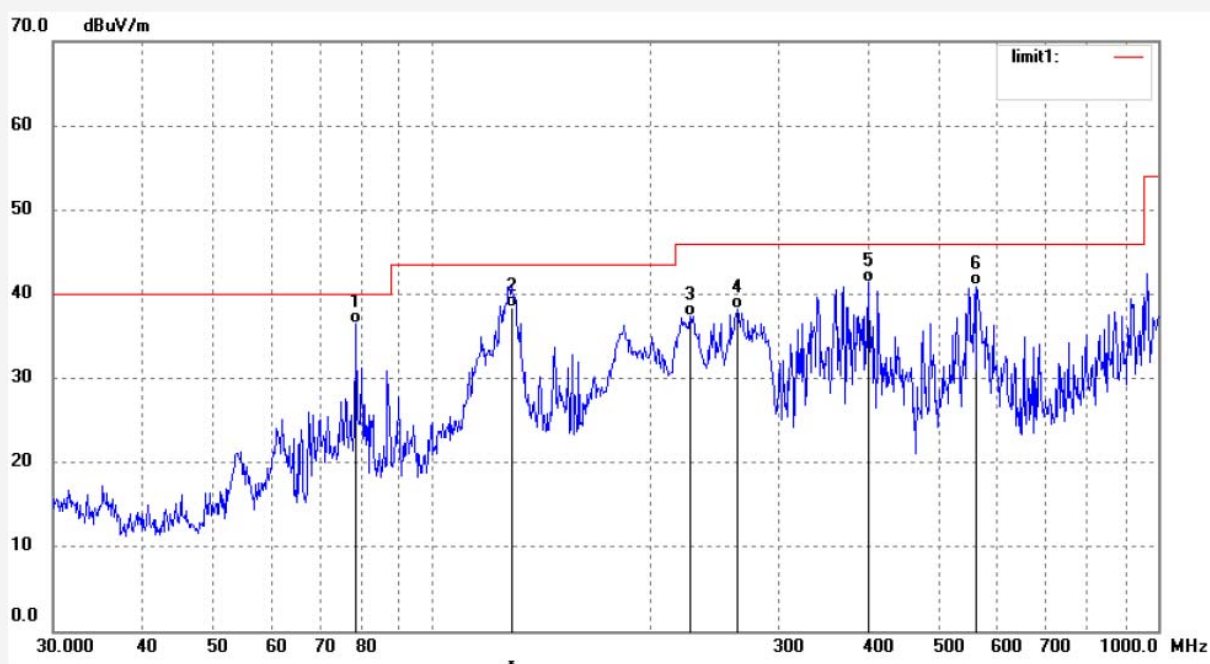
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Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.5645	58.61	-22.09	36.52	40.00	-3.48	QP	100	46	
2	128.9385	60.54	-22.11	38.43	43.50	-5.07	QP	100	126	
3	226.2202	55.64	-18.33	37.31	46.00	-8.69	QP	100	116	
4	263.1154	55.65	-17.35	38.30	46.00	-7.70	QP	100	76	
5	398.2962	54.41	-13.03	41.38	46.00	-4.62	QP	100	114	
6	562.0143	50.34	-9.39	40.95	46.00	-5.05	QP	100	247	



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Job No.: CORNLEY #102

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2402MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

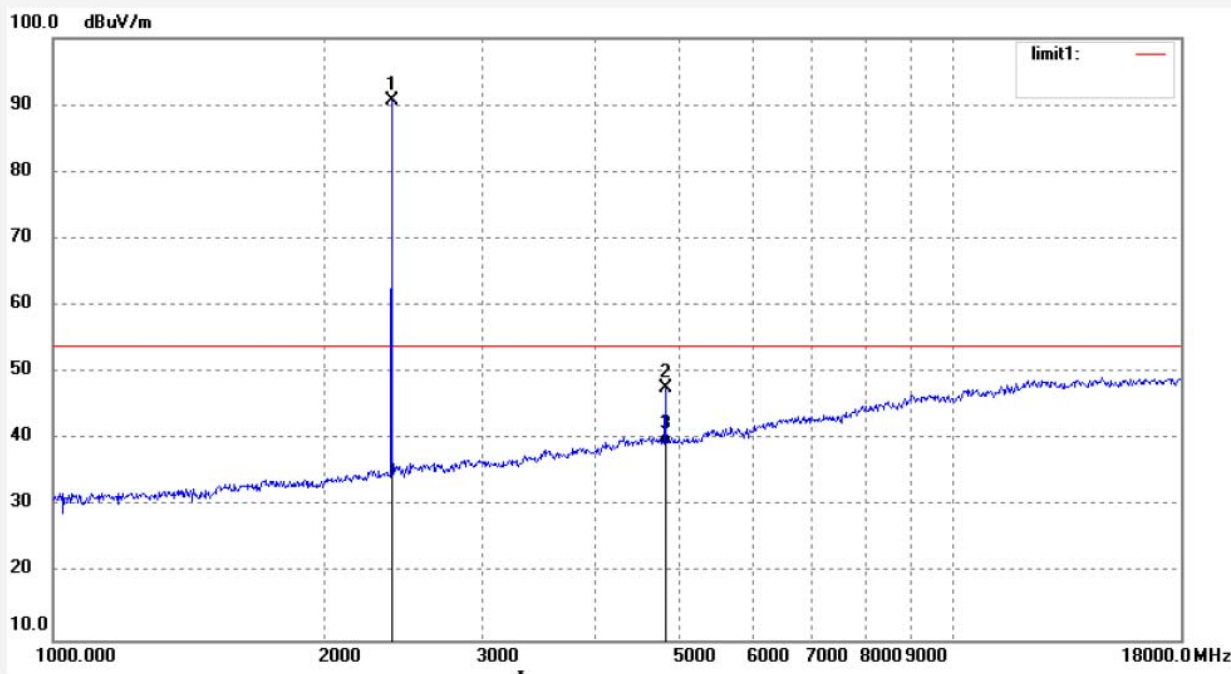
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Time: 11/42/32

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	96.69	-5.98	90.71			peak	150	246	
2	4804.000	44.08	3.53	47.61	74.00	-26.39	peak	150	325	
3	4804.000	35.71	3.53	39.24	54.00	-14.76	AVG	150	325	

Job No.: CORNLEY #103

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2402MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

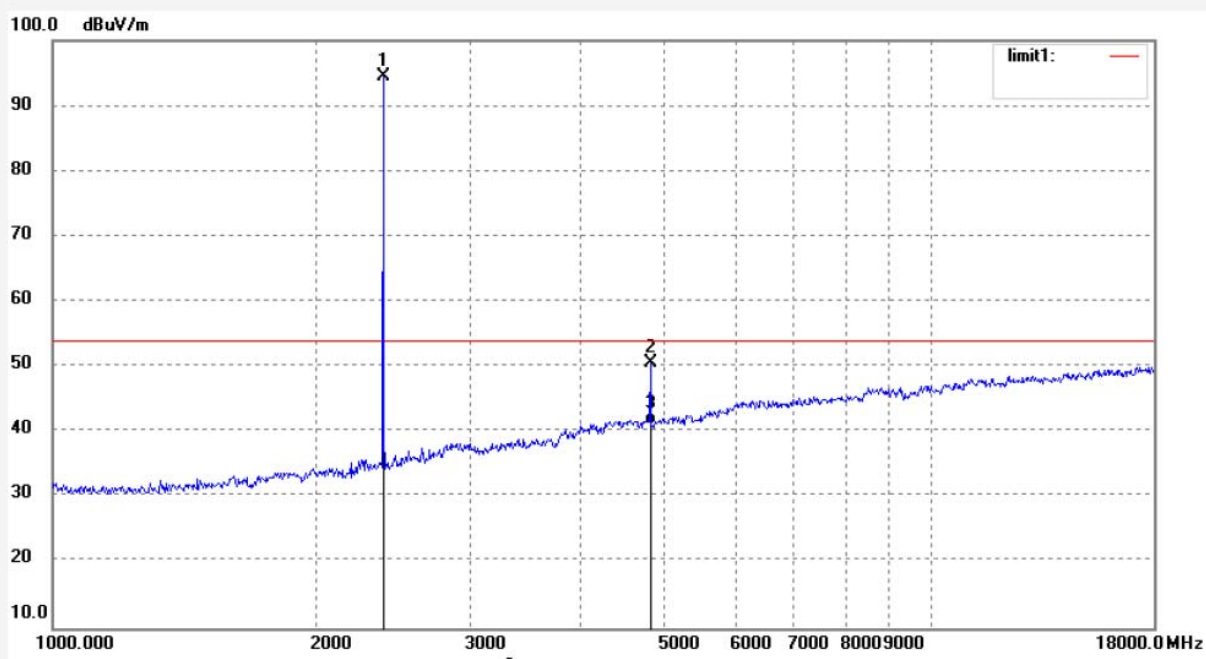
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Time: 11/44/30

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812

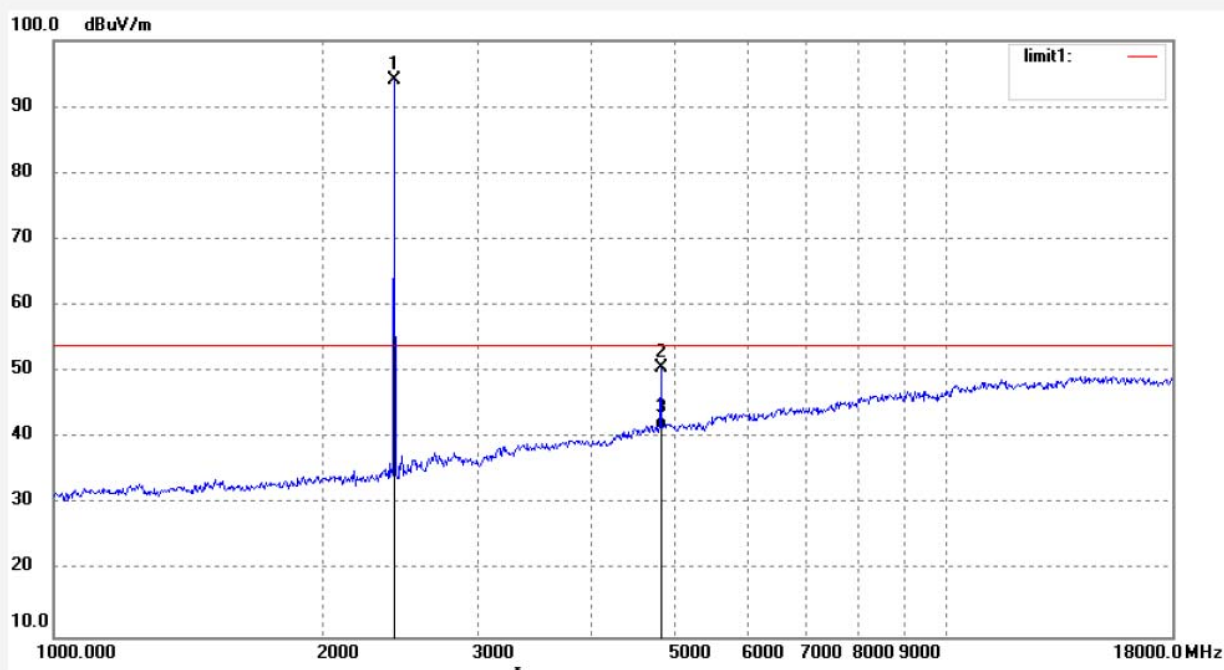


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	100.52	-5.98	94.54			peak	150	247	
2	4804.000	47.17	3.53	50.70	74.00	-23.30	peak	150	147	
3	4804.000	37.68	3.53	41.21	54.00	-12.79	AVG	150	147	

Job No.: CORNLEY #104
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2440MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 11/47/49
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	99.81	-5.76	94.05			peak	150	14	
2	4880.000	46.99	3.53	50.52	74.00	-23.48	peak	150	111	
3	4880.000	37.85	3.53	41.38	54.00	-12.62	AVG	150	111	



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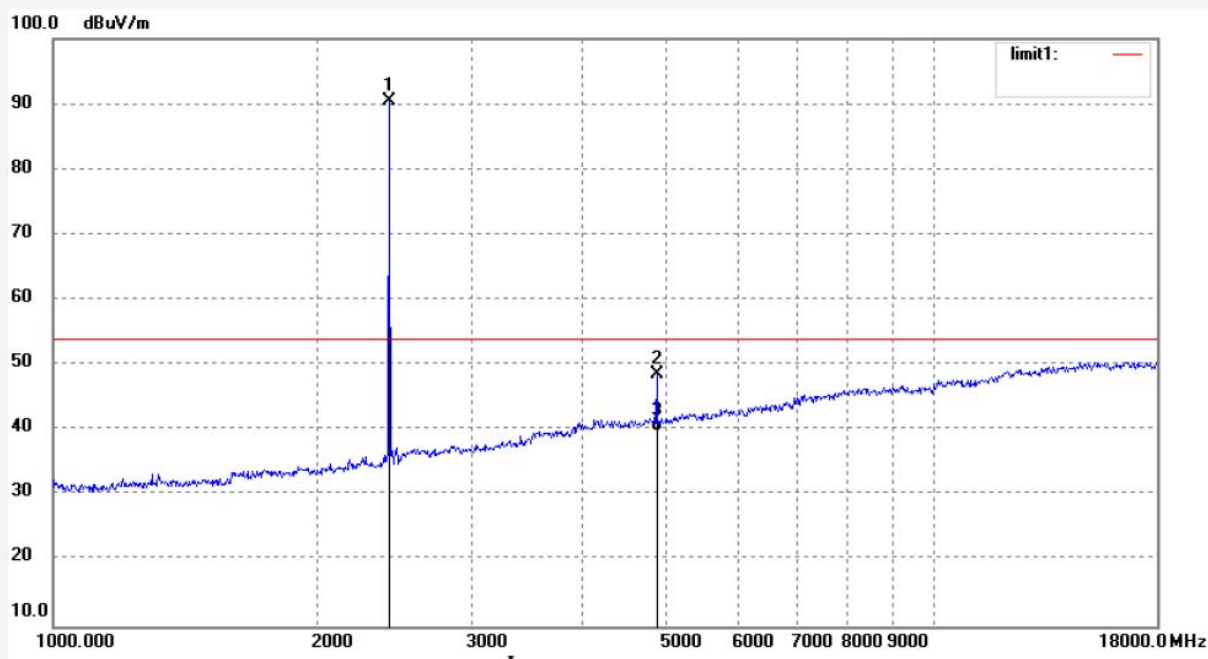
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Job No.: CORNLEY #105
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2440MHz
Model: AG-6800A
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 17/09/15/
Time: 11/49/56
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	96.13	-5.76	90.37			peak	150	35	
2	4880.000	44.61	4.06	48.67	74.00	-25.33	peak	150	321	
3	4880.000	35.78	4.06	39.84	54.00	-14.16	AVG	150	321	



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Job No.: CORNLEY #106

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2480MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

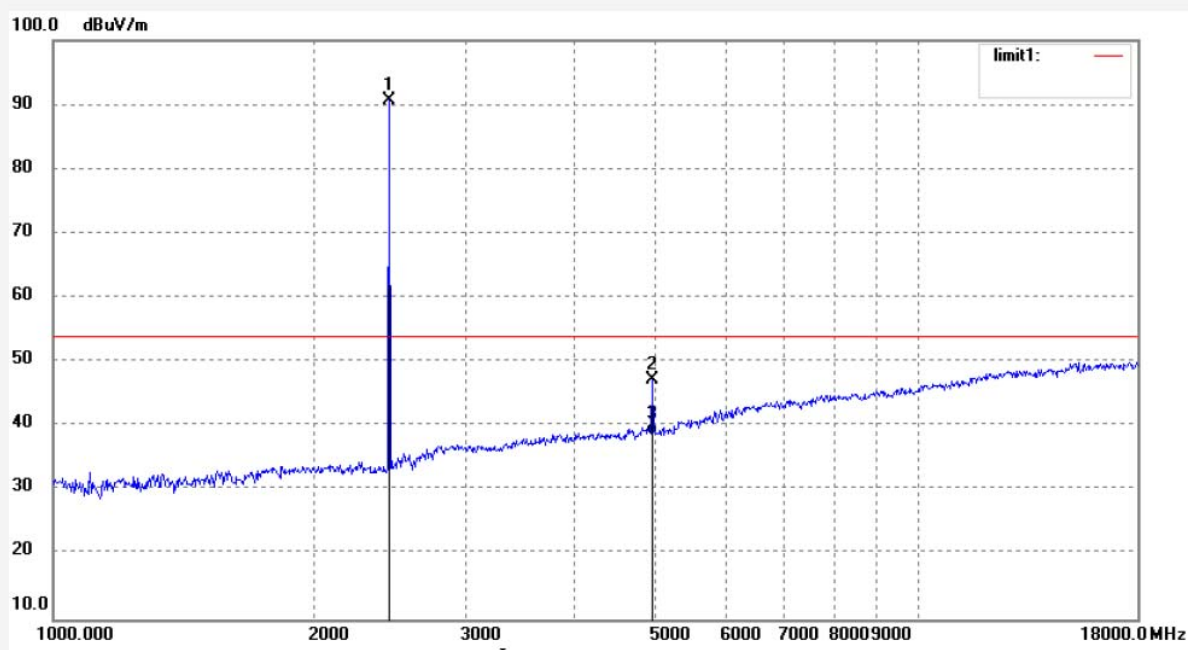
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Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	96.19	-5.55	90.64			peak	150	249	
2	4960.000	42.65	4.69	47.34	74.00	-26.66	peak	150	146	
3	4960.000	33.98	4.69	38.67	54.00	-15.33	AVG	150	146	

Job No.: CORNLEY #107

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Massage Chair

Mode: TX 2480MHz

Model: AG-6800A

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

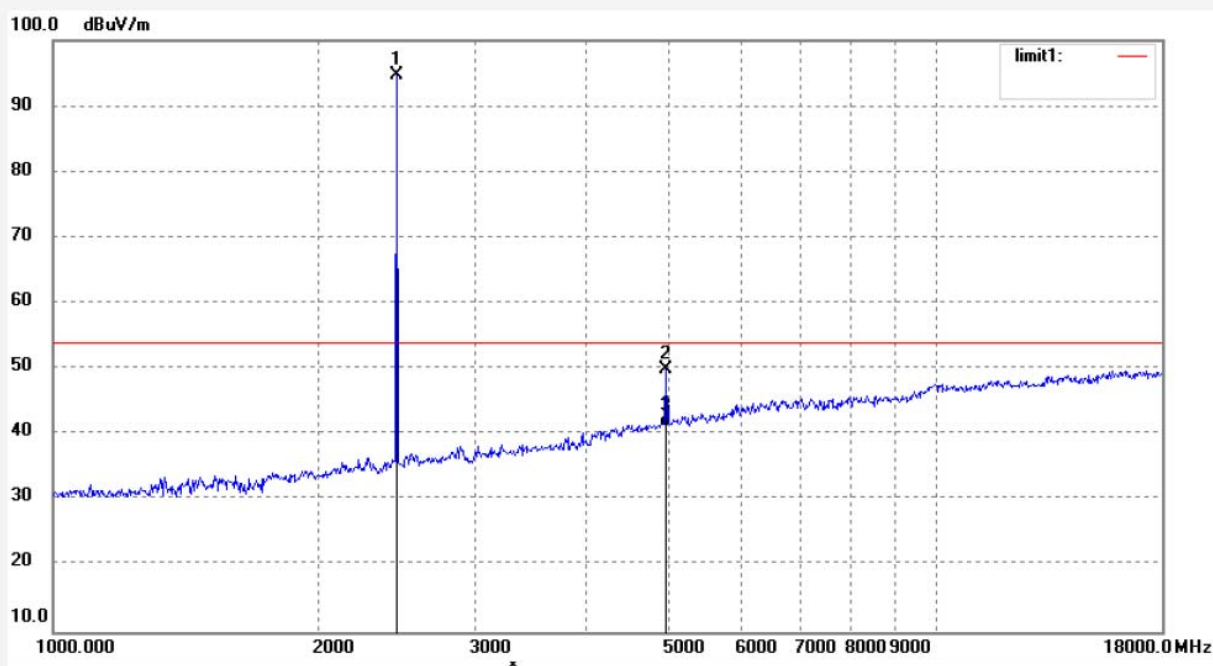
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Time: 13/37/22

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20171812



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	100.19	-5.55	94.64			peak	150	147	
2	4960.000	45.19	4.69	49.88	74.00	-24.12	peak	150	25	
3	4960.000	36.47	4.69	41.16	54.00	-12.84	AVG	150	25	

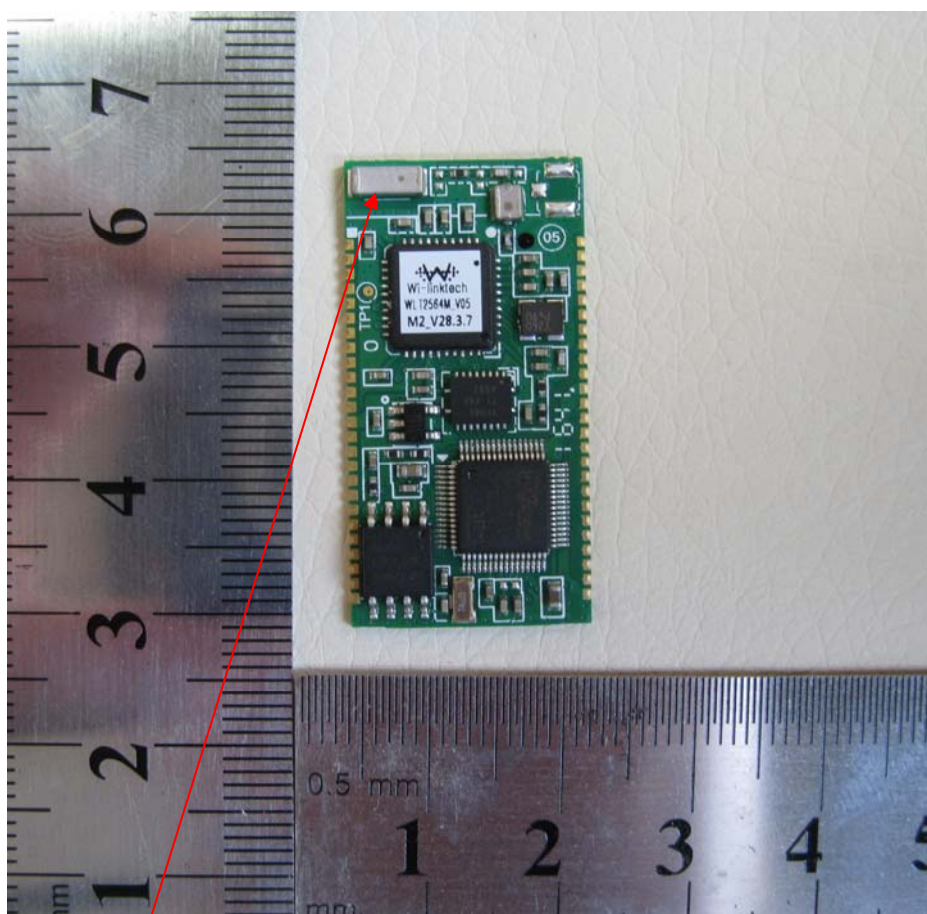
11.ANTENNA REQUIREMENT

11.1.The Requirement

According to 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.

11.2.Antenna Construction

Device is equipped with external Antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2.0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna