

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of

XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Massage Chair
Model No.: EC-624H, OS-Pro Alpina

FCC ID: YMX-EC624H

Prepared for : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,
LTD
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Date of Test : June 29-July 5, 2017
Date of Report : July 5, 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. : EC-624H, OS-Pro Alpina

(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 EC-624H for test.)

Trade Name : 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 Shenzhen 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 Shenzhen 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 Shenzhen Accurate Technology Co., Ltd.

Date of Test : June 29-July 5, 2017

Date of Report: July 5, 2017

Prepared by :


(Steven Yang, Engineer)


Approved & Authorized Signer :


(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Massage Chair
Model Number	:	EC-624H, OS-Pro Alpina (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 EC-624H for test.)
Bluetooth version	:	BT V4.0 LE
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	2dBi
Antenna type	:	Plate loaded ceramic antenna
Power Supply	:	AC 110-120V/60Hz
Modulation mode	:	GFSK
Applicant	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	(5/F)NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, CHINA
Manufacturer	:	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD
Address	:	(5/F)NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, CHINA

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

PC : Manufacturer: LENOVO
M/N: 4290-RT8
S/N: R9-FW93G 11/08

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. 07, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 07, 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. 07, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 07, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 07, 2017	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

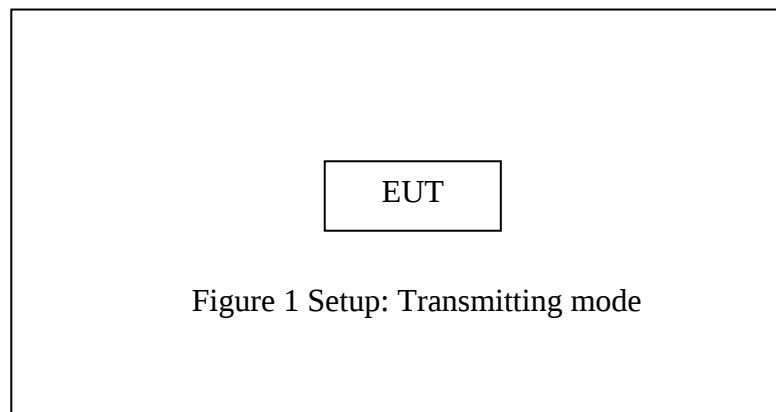
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

3.2.Configuration and peripherals

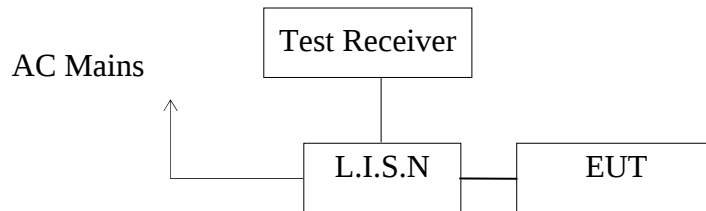


4. TEST PROCEDURES AND RESULTS

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 Setup



(EUT: Massage Chair)

5.2. Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	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 0.8 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: 2013 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.Power Line Conducted Emission Measurement Results

PASS.

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

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

The spectral diagrams are attached as below.

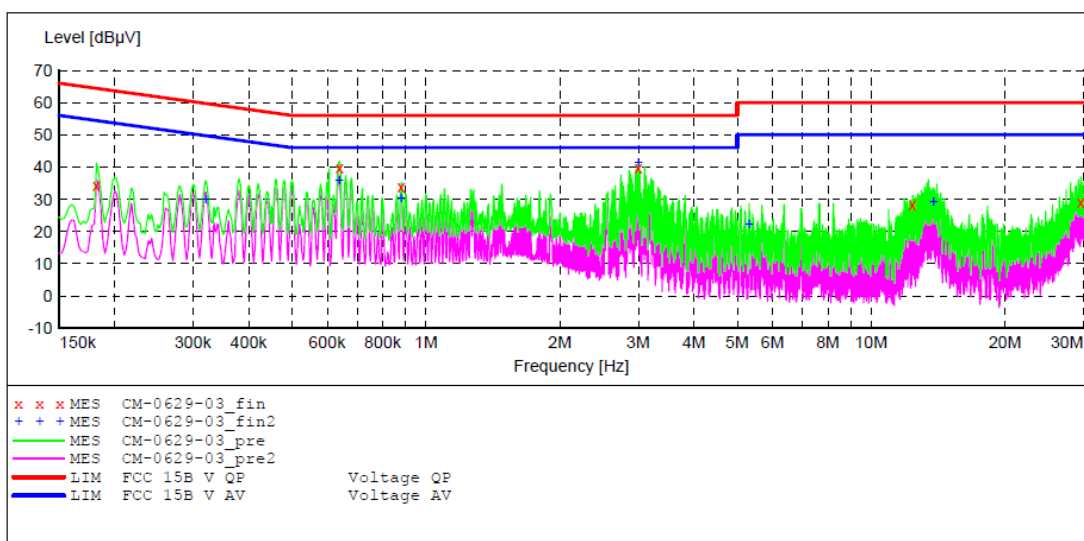
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Massage Chair M/N:EC-624H
 Manufacturer: COMFORT
 Operating Condition: BT
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20171243
 Start of Test: 2017-6-29 / 8:59:44

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-0629-03_fin"

2017-6-29 9:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.182000	34.40	10.8	64	30.0	QP	L1	GND
0.640000	39.70	11.0	56	16.3	QP	L1	GND
0.880000	33.80	11.1	56	22.2	QP	L1	GND
3.000000	39.60	11.3	56	16.4	QP	L1	GND
12.380000	28.30	11.6	60	31.7	QP	L1	GND
29.565000	29.20	11.8	60	30.8	QP	L1	GND

MEASUREMENT RESULT: "CM-0629-03_fin2"

2017-6-29 9:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.320000	30.20	10.9	50	19.5	AV	L1	GND
0.638000	36.10	11.0	46	9.9	AV	L1	GND
0.880000	30.60	11.1	46	15.4	AV	L1	GND
3.000000	41.70	11.3	46	4.3	AV	L1	GND
5.320000	22.40	11.4	50	27.6	AV	L1	GND
13.815000	29.40	11.6	50	20.6	AV	L1	GND

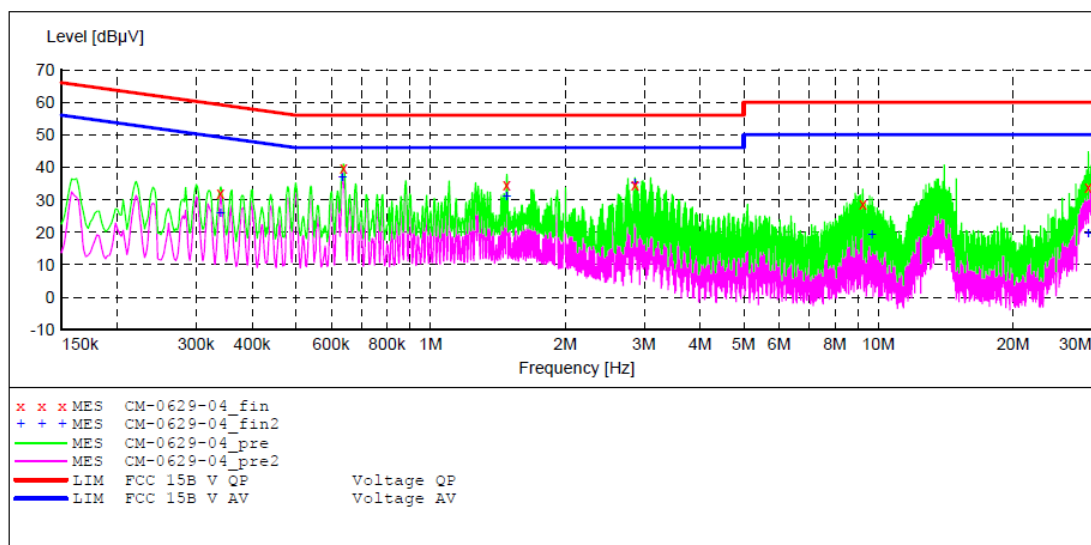
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Message Chair M/N:EC-624H
 Manufacturer: COMFORT
 Operating Condition: BT
 Test Site: 1#Shielding Room
 Operator: DING
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20171243
 Start of Test: 2017-6-29 / 9:03:36

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-0629-04_fin"

2017-6-29 9:07

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.340000	32.20	10.9	59	27.0	QP	N	GND
0.640000	39.70	11.0	56	16.3	QP	N	GND
1.480000	34.70	11.2	56	21.3	QP	N	GND
2.860000	34.50	11.3	56	21.5	QP	N	GND
9.220000	28.80	11.6	60	31.2	QP	N	GND
29.390000	33.90	11.8	60	26.1	QP	N	GND

MEASUREMENT RESULT: "CM-0629-04_fin2"

2017-6-29 9:07

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.340000	26.30	10.9	49	22.9	AV	N	GND
0.636000	37.10	11.0	46	8.9	AV	N	GND
1.480000	31.20	11.2	46	14.8	AV	N	GND
2.860000	35.20	11.3	46	10.8	AV	N	GND
9.675000	19.60	11.6	50	30.4	AV	N	GND
29.390000	19.80	11.8	50	30.2	AV	N	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 2402-2480MHz. 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.

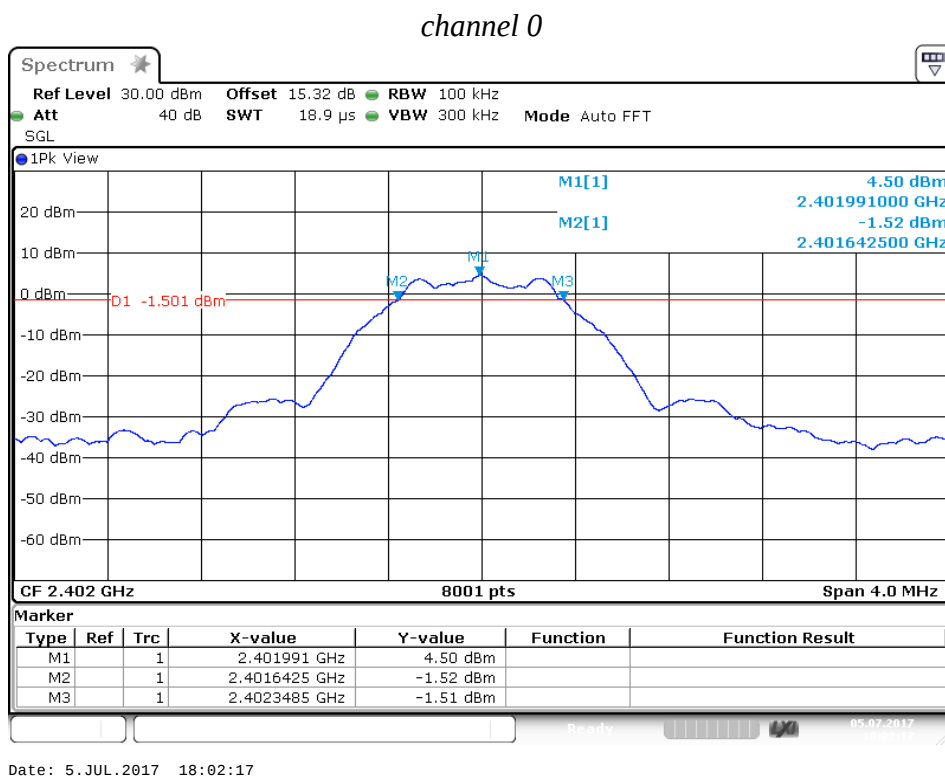
6.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

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

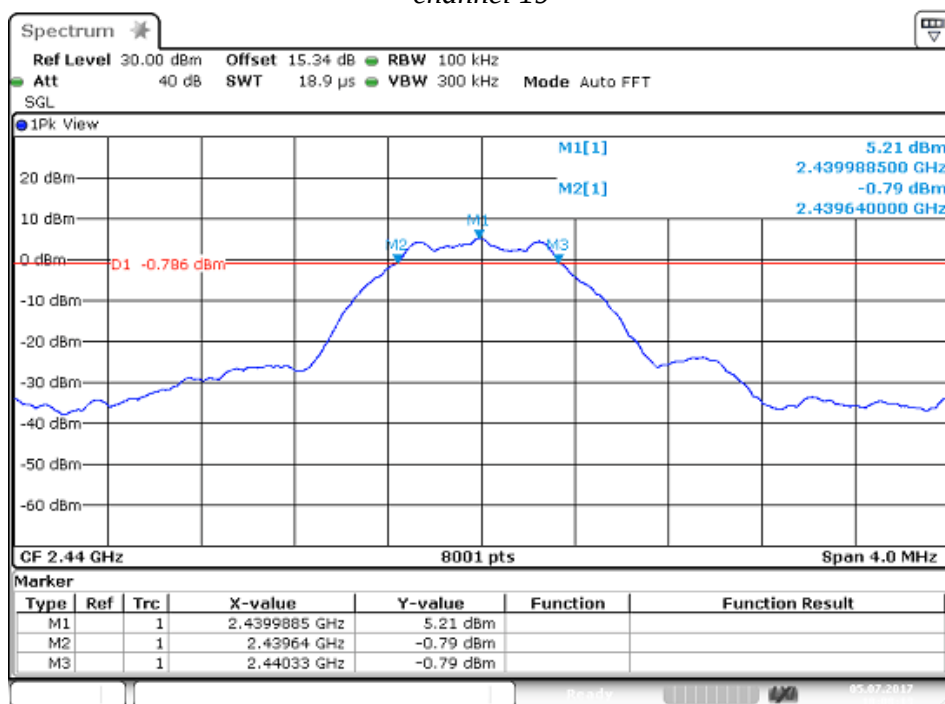
6.6.Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.706	0.5	PASS
19	2440	0.690	0.5	PASS
39	2480	0.688	0.5	PASS

The spectrum analyzer plots are attached as below.

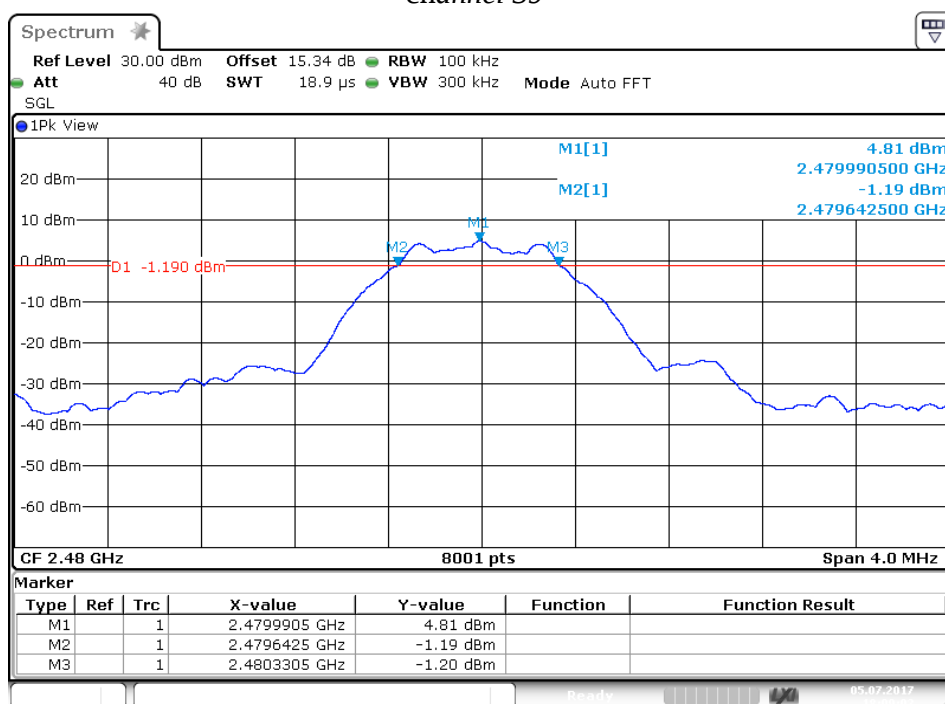


channel 19



Date: 5. JUL. 2017 18:08:13

channel 39



Date: 5. JUL. 2017 18:09:02

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 2402-2480MHz. 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 1 MHz and VBW to 3MHz.

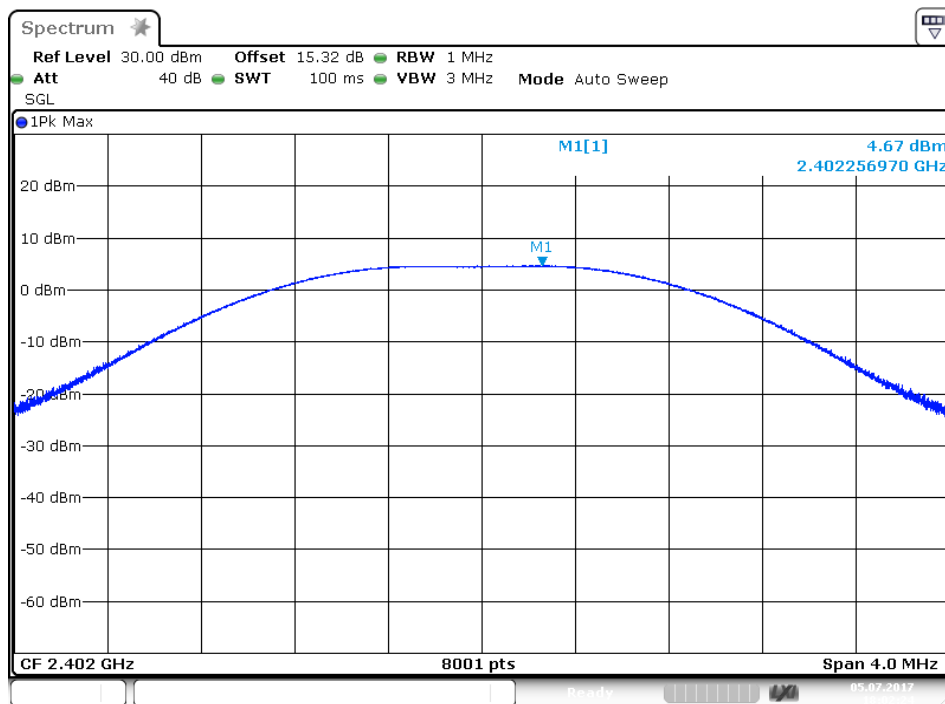
7.5.3. Measurement the maximum peak output power.

7.6.Test Result

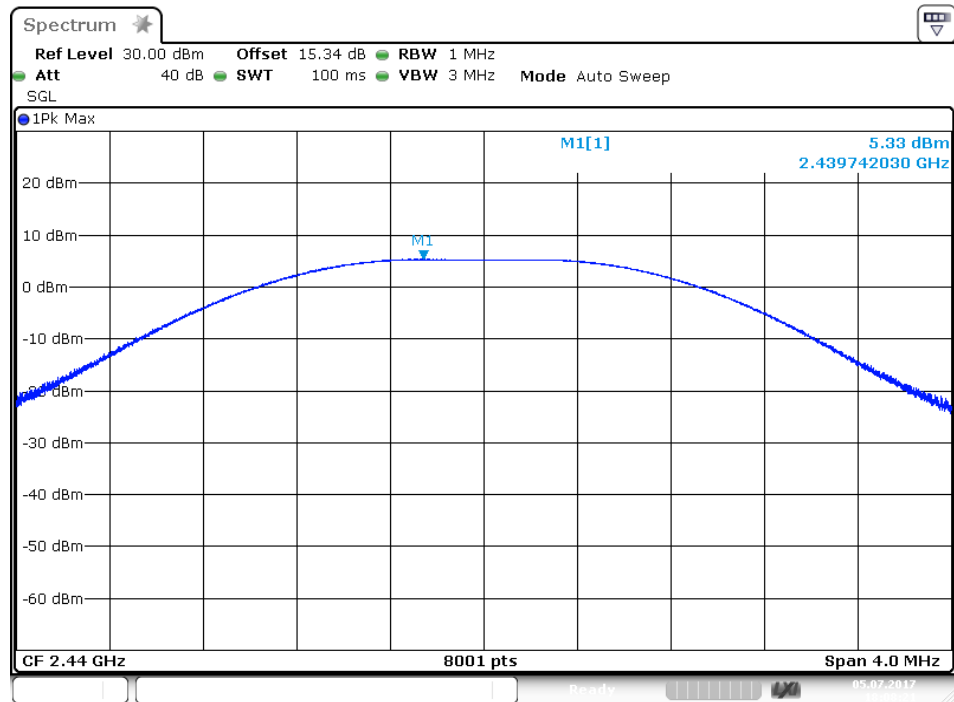
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	4.67	30	PASS
19	2440	5.33	30	PASS
39	2480	5.04	30	PASS

The spectrum analyzer plots are attached as below.

channel 0

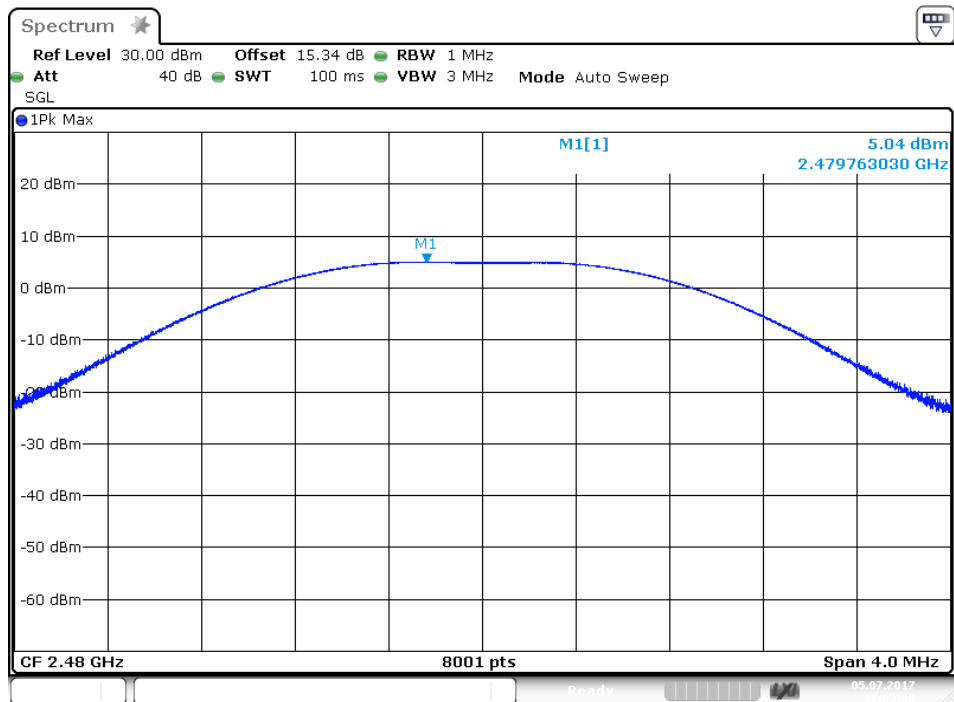


channel 19



Date: 5.JUL.2017 18:08:21

channel 39



Date: 5.JUL.2017 18:09:10

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 2402-2480MHz. 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 3kHz) and repeat.

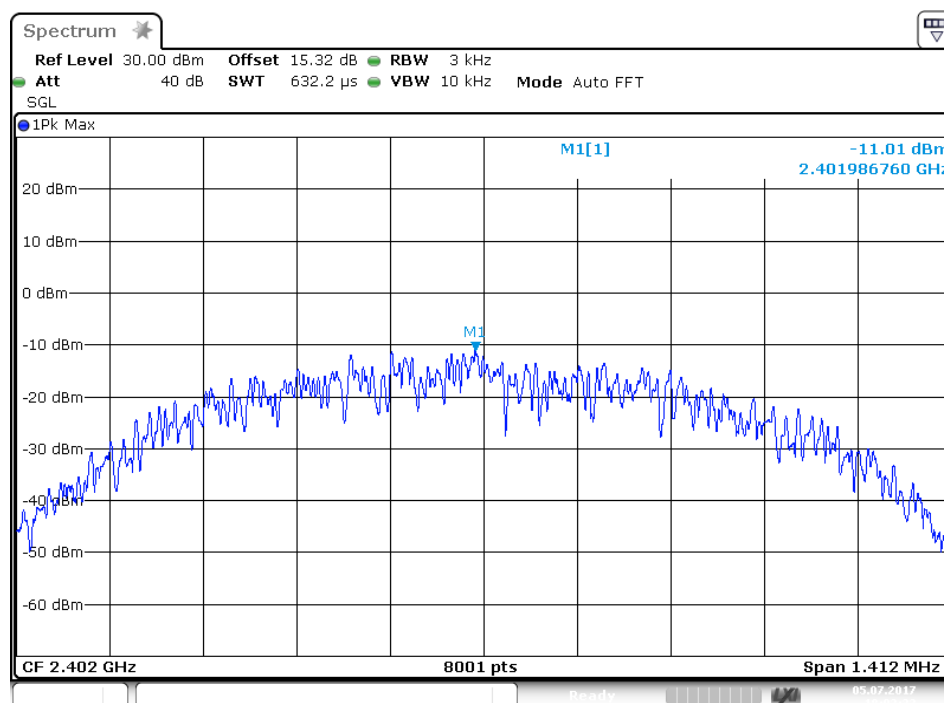
8.5.4. Measurement the maximum power spectral density.

8.6. Test Result

CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-11.01	8	PASS
19	2440	-10.15	8	PASS
39	2480	-10.99	8	PASS

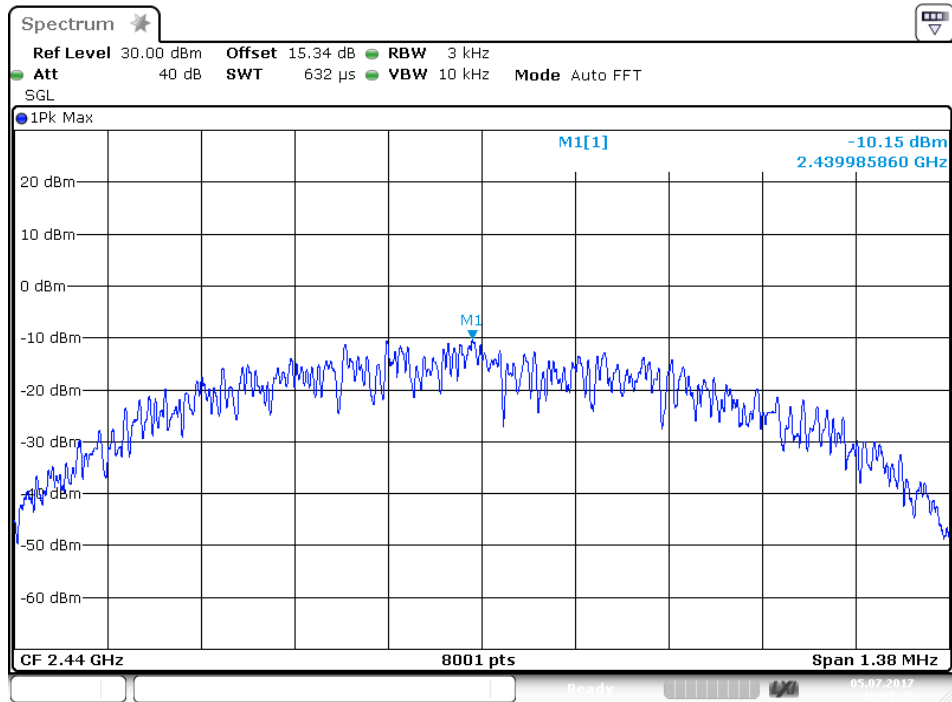
The spectrum analyzer plots are attached as below.

channel 0



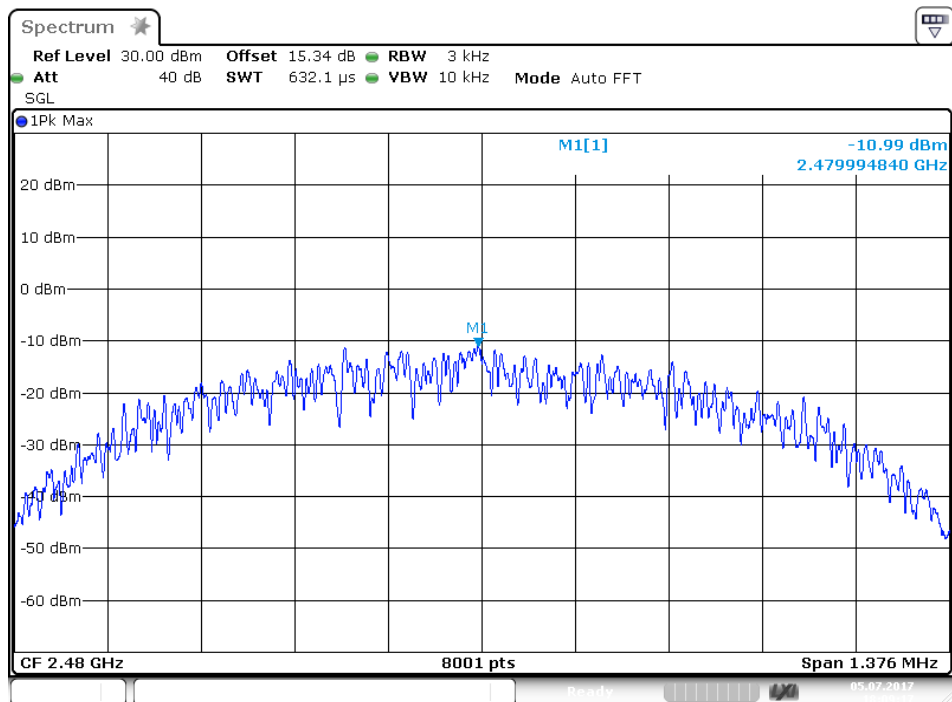
Date: 5.JUL.2017 18:02:32

channel 19



Date: 5. JUL. 2017 18:08:29

channel 39



Date: 5. JUL. 2017 18:09:18

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 2402-2480MHz. 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 1.5m 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.

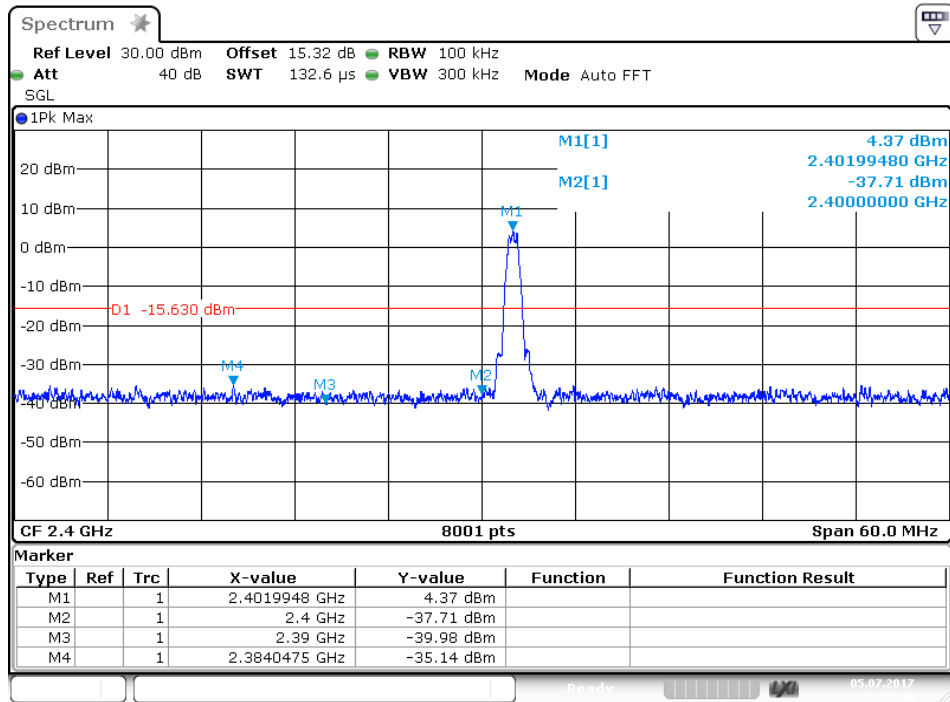
9.6. Test Result

Pass

Conducted Band Edge Result

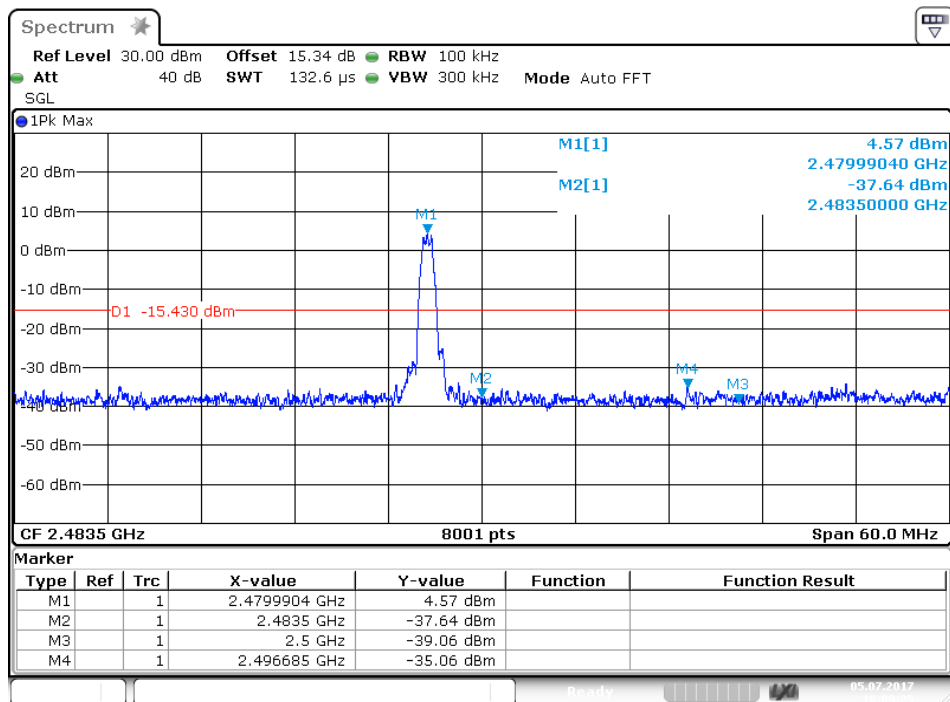
Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.402GHz	33.34	20
39	2.480GHz	33.07	20

channel 0



Date: 5.JUL.2017 18:02:40

channel 39



Date: 5.JUL.2017 18:09:25

Radiated Band Edge Result



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Job No.: DING #3825

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

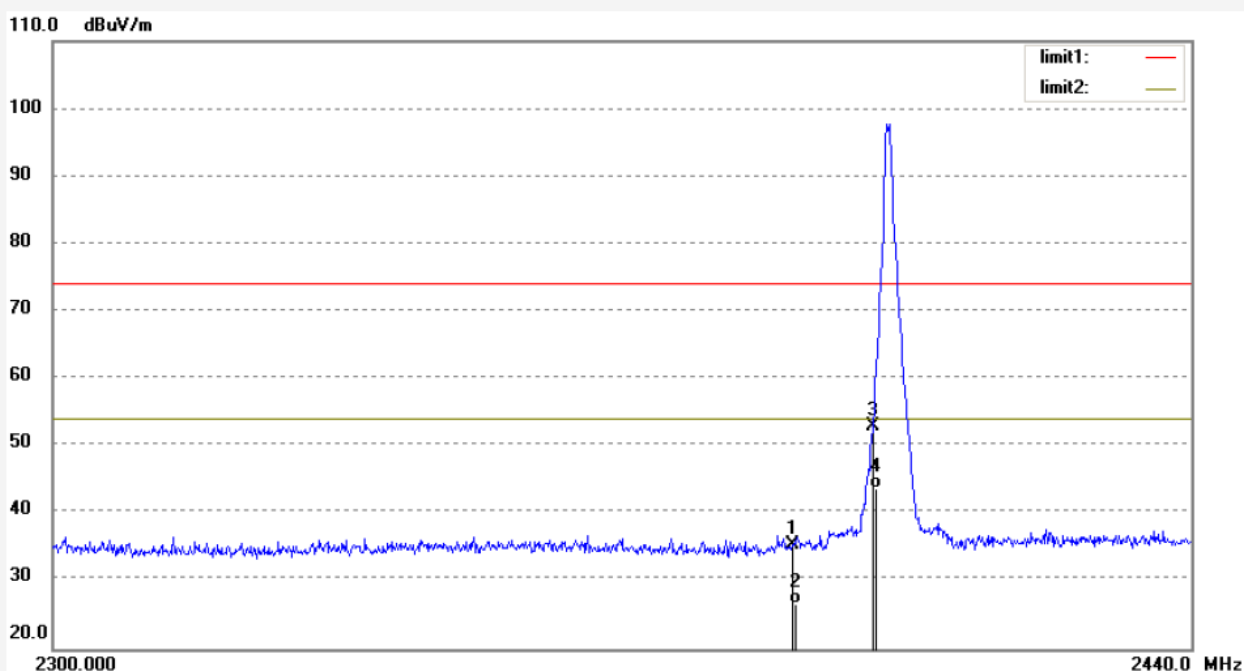
Date: 17/06/29/

Time: 14/33/00

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



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	41.22	-5.89	35.33	74.00	-38.67	peak			
2	2390.000	32.48	-5.89	26.59	54.00	-27.41	AVG			
3	2400.000	58.79	-5.80	52.99	74.00	-21.01	peak			
4	2400.000	49.63	-5.80	43.83	54.00	-10.17	AVG			

Job No.: DING #3824

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

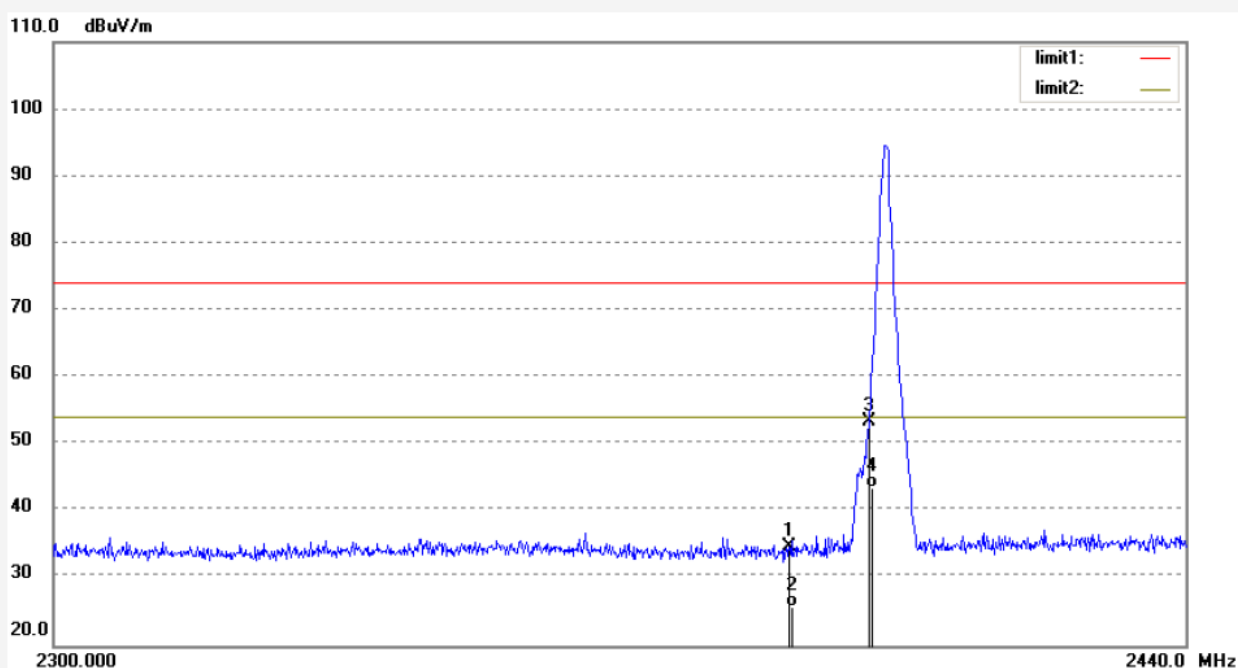
Date: 17/06/29/

Time: 14/30/32

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



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	40.55	-5.89	34.66	74.00	-39.34	peak			
2	2390.000	31.67	-5.89	25.78	54.00	-28.22	AVG			
3	2400.000	59.29	-5.80	53.49	74.00	-20.51	peak			
4	2400.000	49.22	-5.80	43.42	54.00	-10.58	AVG			

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Job No.: DING #3826

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

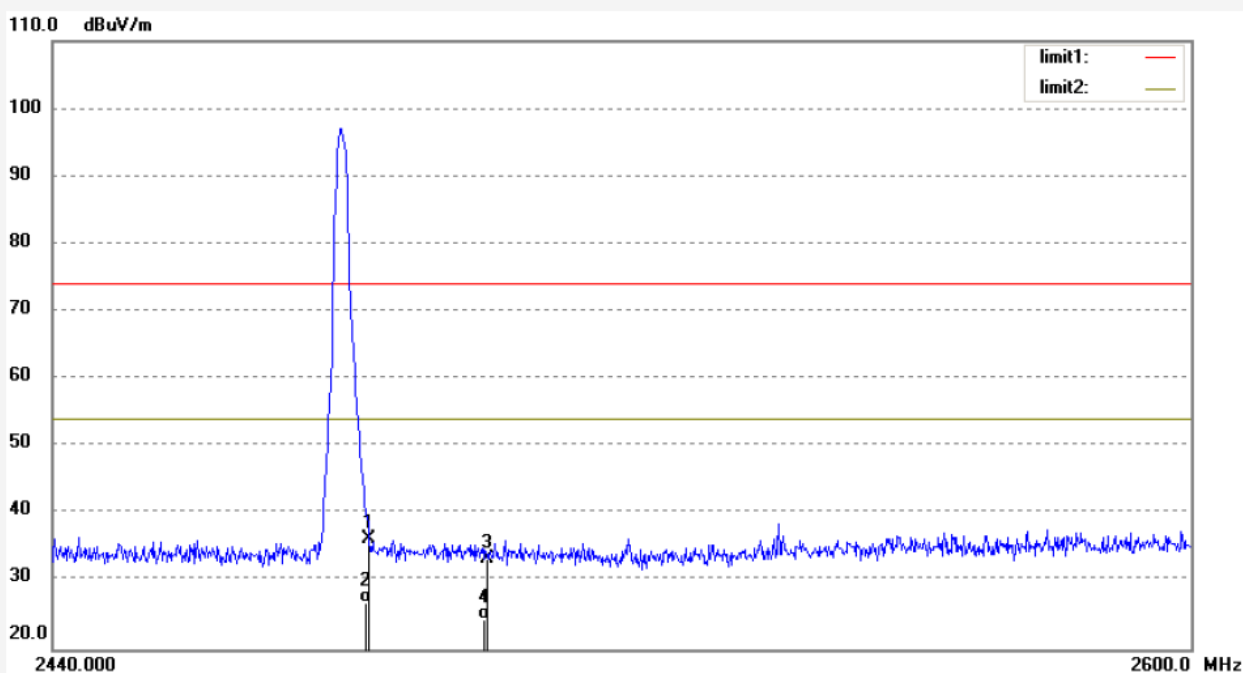
Date: 17/06/29/

Time: 14/35/40

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



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	41.72	-5.51	36.21	74.00	-37.79	peak			
2	2483.500	32.46	-5.51	26.95	54.00	-27.05	AVG			
3	2500.000	38.94	-5.50	33.44	74.00	-40.56	peak			
4	2500.000	29.82	-5.50	24.32	54.00	-29.68	AVG			

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Job No.: DING #3827

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

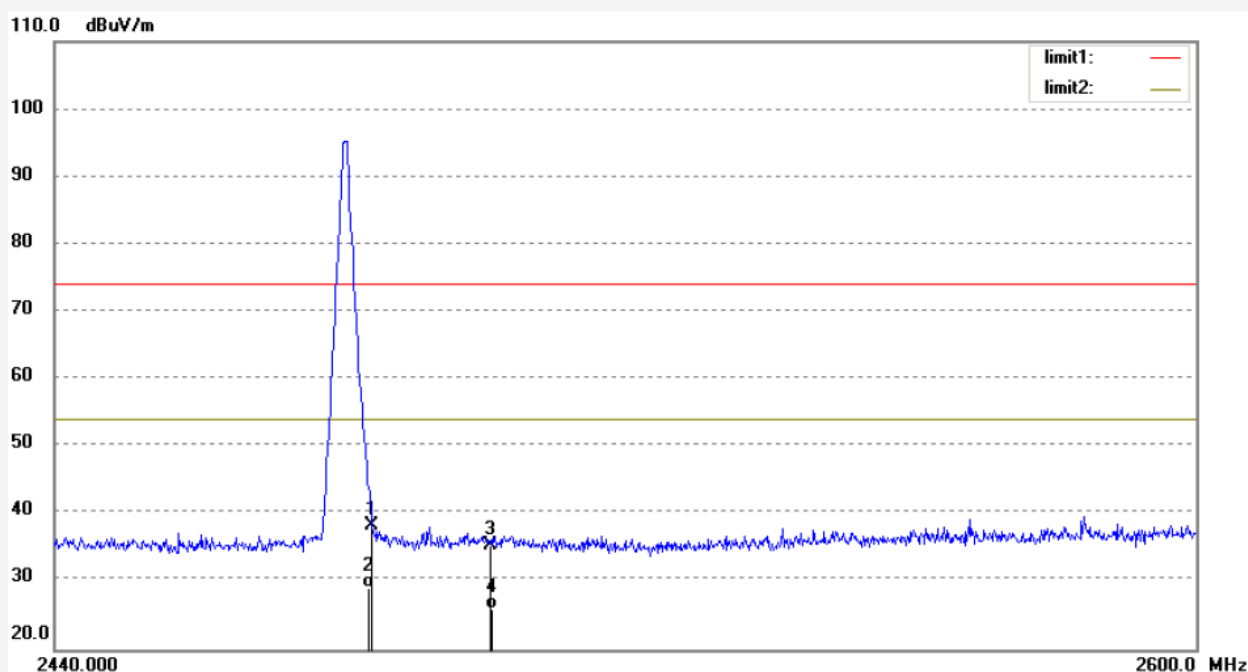
Date: 17/06/29/

Time: 14/37/17

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



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	43.78	-5.51	38.27	74.00	-35.73	peak			
2	2483.500	34.69	-5.51	29.18	54.00	-24.82	AVG			
3	2500.000	40.88	-5.50	35.38	74.00	-38.62	peak			
4	2500.000	31.42	-5.50	25.92	54.00	-28.08	AVG			

Note:

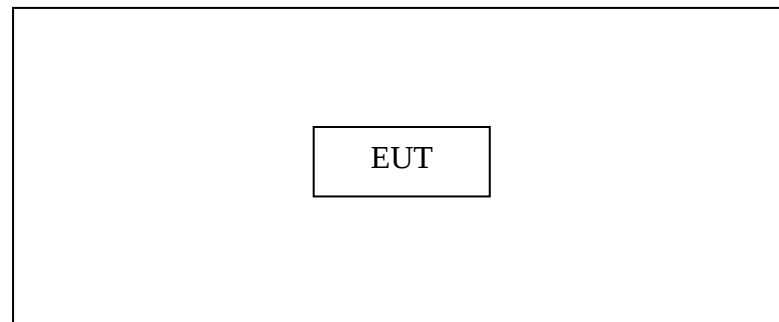
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is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

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

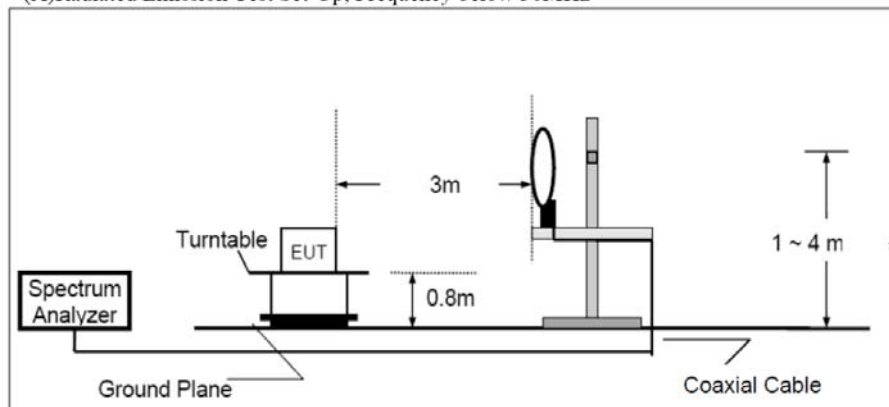


Setup: Transmitting mode

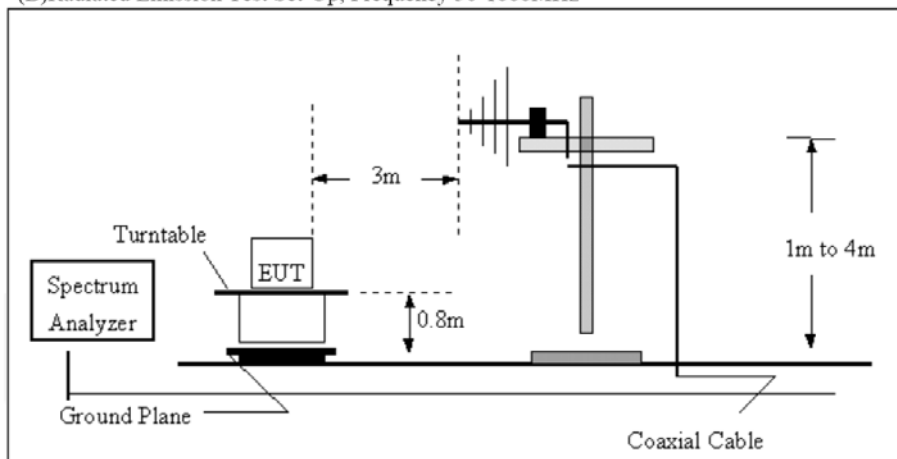
(EUT: Massage Chair)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

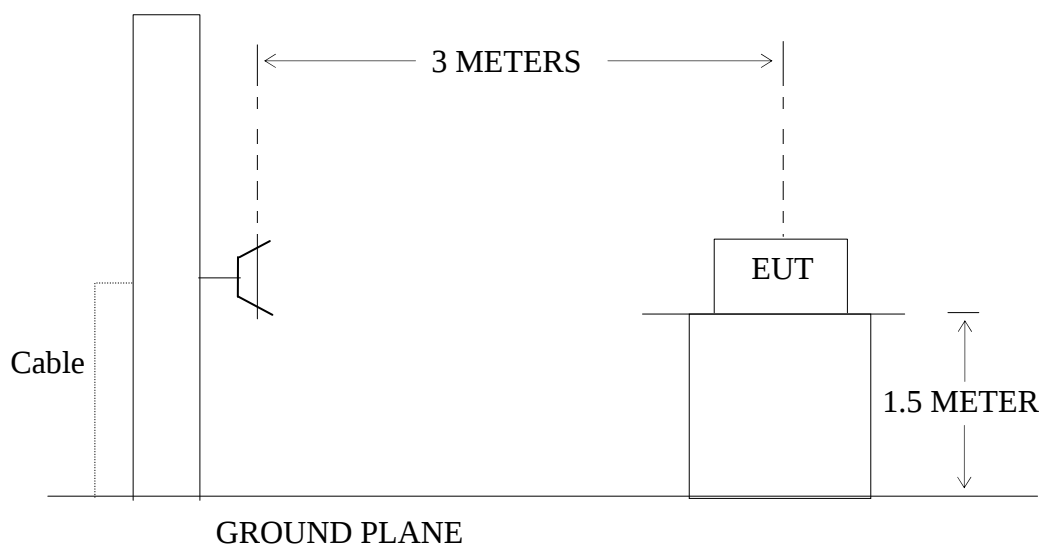
(A)Radiated Emission Test Set-Up, Frequency below 30MHz



(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency 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 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 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 26.5GHz 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. 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 9kHz-30MHz and 18-26.5GHz are not reported, because the test values lower than the limits of 20dB.

Below 1GHz



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Job No.: yjzh #1303

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

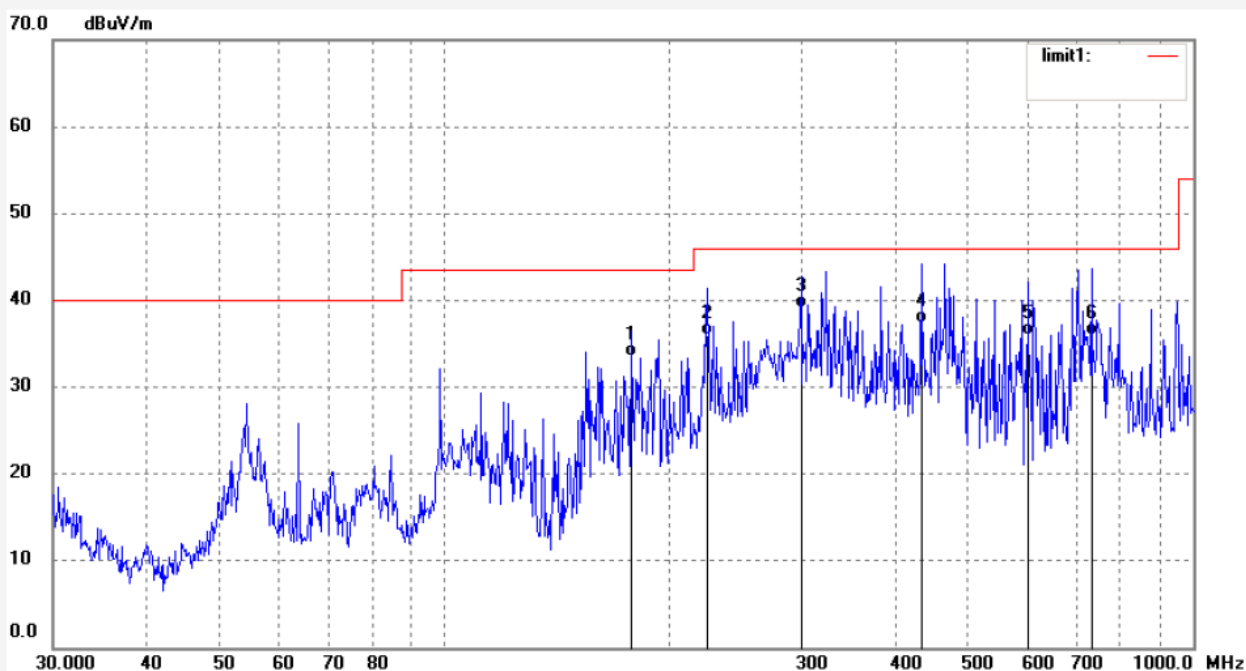
Date: 2017/06/29

Time: 18:25:18

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.5175	53.49	-20.01	33.48	43.50	-10.02	QP			
2	224.6357	54.21	-18.29	35.92	46.00	-10.08	QP			
3	299.6440	55.13	-16.06	39.07	46.00	-6.93	QP			
4	433.3396	49.67	-12.24	37.43	46.00	-8.57	QP			
5	600.8138	44.69	-8.71	35.98	46.00	-10.02	QP			
6	731.4627	42.81	-6.77	36.04	46.00	-9.96	QP			

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Job No.: yjzh #1304

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

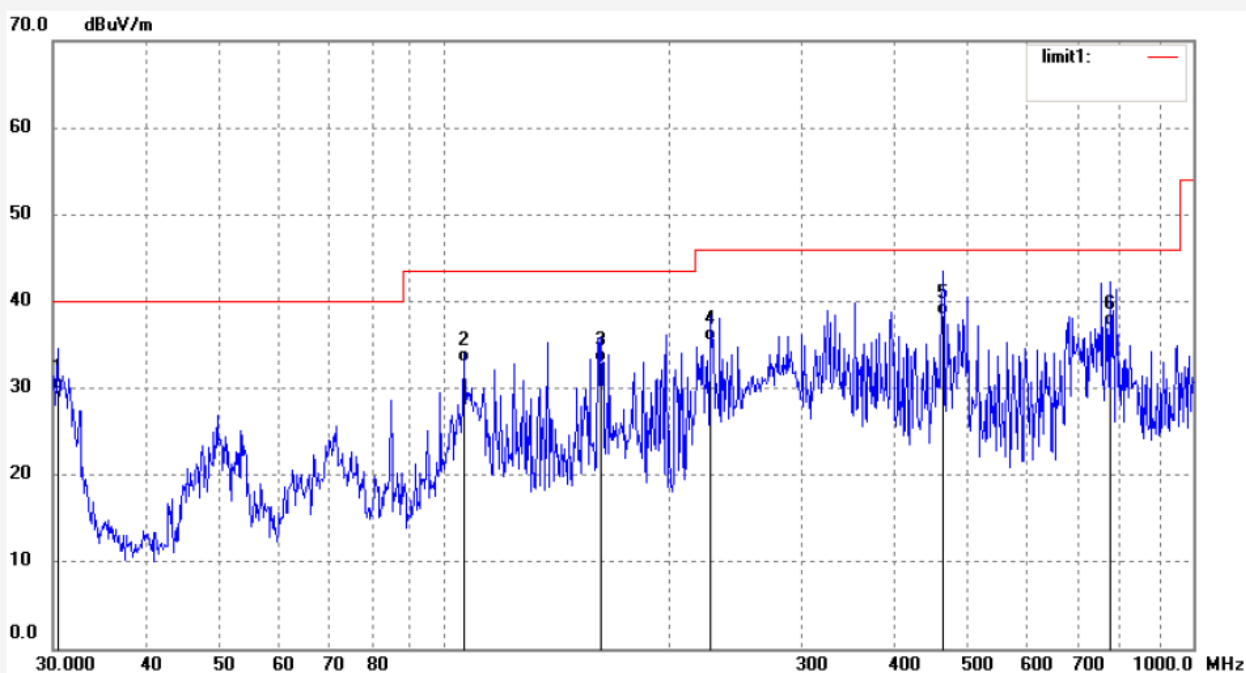
Date: 2017/06/29

Time: 18:33:10

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.4246	45.69	-15.80	29.89	40.00	-10.11	QP			
2	106.2810	53.14	-20.20	32.94	43.50	-10.56	QP			
3	162.0197	53.85	-20.87	32.98	43.50	-10.52	QP			
4	227.0164	53.59	-18.23	35.36	46.00	-10.64	QP			
5	463.2561	50.14	-11.72	38.42	46.00	-7.58	QP			
6	773.7612	42.99	-5.84	37.15	46.00	-8.85	QP			



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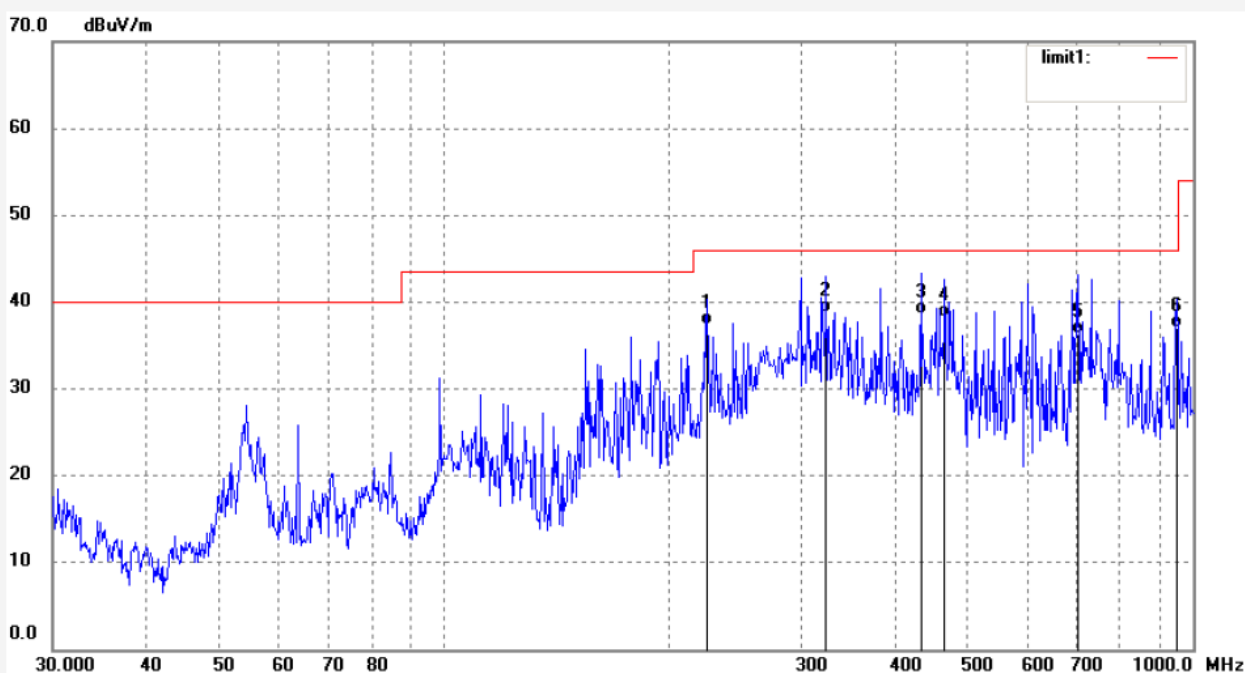
Tel:+86-0755-26503290

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Job No.: yjzh #1306
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX 2440MHz
Model: EC-624H
Manufacturer: COMFORT

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2017/06/29
Time: 18:45:58
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	224.6357	55.64	-18.29	37.35	46.00	-8.65	QP			
2	323.7250	54.03	-15.18	38.85	46.00	-7.15	QP			
3	433.3396	50.76	-12.24	38.52	46.00	-7.48	QP			
4	466.5230	49.87	-11.65	38.22	46.00	-7.78	QP			
5	703.7314	43.71	-7.31	36.40	46.00	-9.60	QP			
6	952.0000	40.22	-3.25	36.97	46.00	-9.03	QP			

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Job No.: yjzh #1305

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2440MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

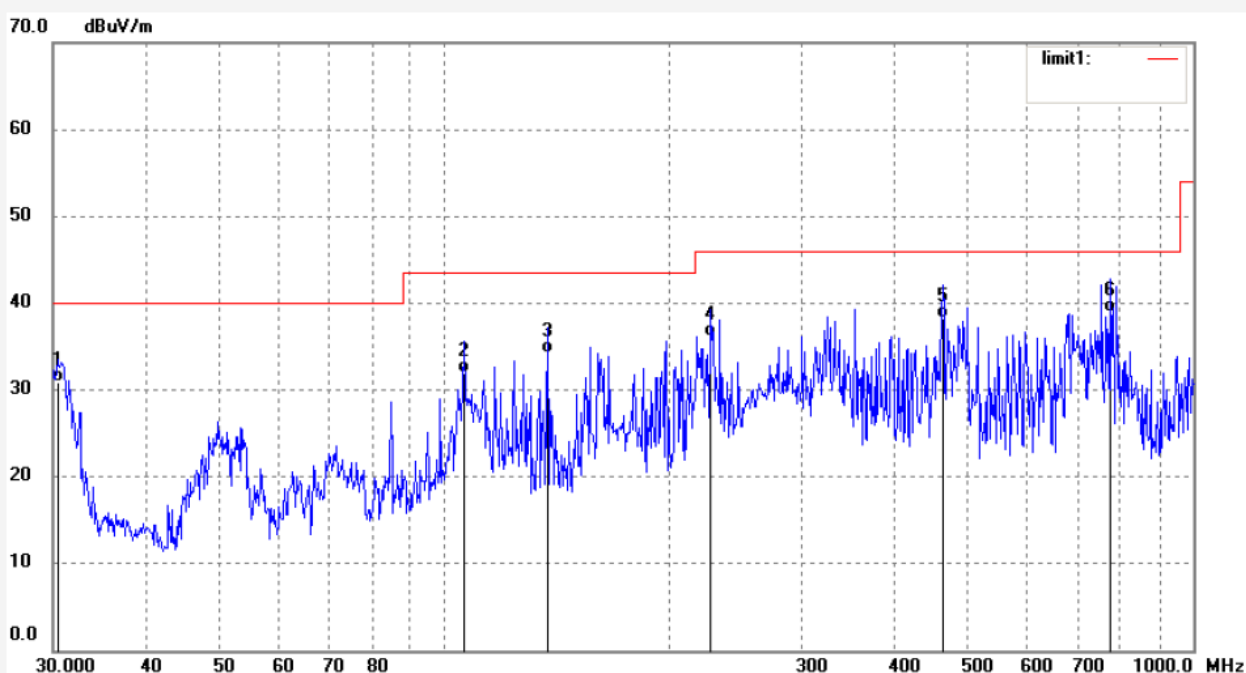
Date: 2017/06/29

Time: 18:39:50

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.4246	46.75	-15.80	30.95	40.00	-9.05	QP			
2	106.2810	52.16	-20.20	31.96	43.50	-11.54	QP			
3	137.3565	55.41	-21.20	34.21	43.50	-9.29	QP			
4	227.0164	54.32	-18.23	36.09	46.00	-9.91	QP			
5	463.2561	50.01	-11.72	38.29	46.00	-7.71	QP			
6	773.7612	44.74	-5.84	38.90	46.00	-7.10	QP			

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Job No.: yjzh #1307

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

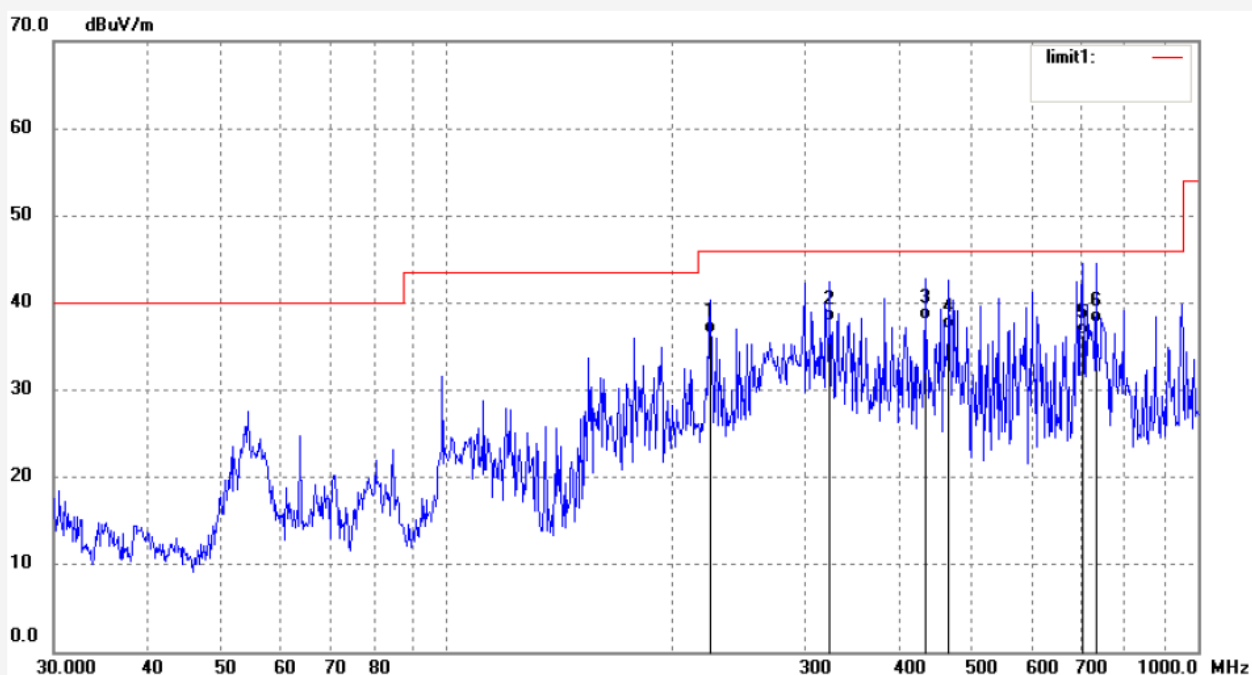
Date: 2017/06/29

Time: 18:55:44

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	224.6357	54.78	-18.29	36.49	46.00	-9.51	QP			
2	323.7250	53.12	-15.18	37.94	46.00	-8.06	QP			
3	433.3396	50.30	-12.24	38.06	46.00	-7.94	QP			
4	466.5230	48.59	-11.65	36.94	46.00	-9.06	QP			
5	703.7314	43.64	-7.31	36.33	46.00	-9.67	QP			
6	731.4627	44.51	-6.77	37.74	46.00	-8.26	QP			



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Job No.: yjzh #1308

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

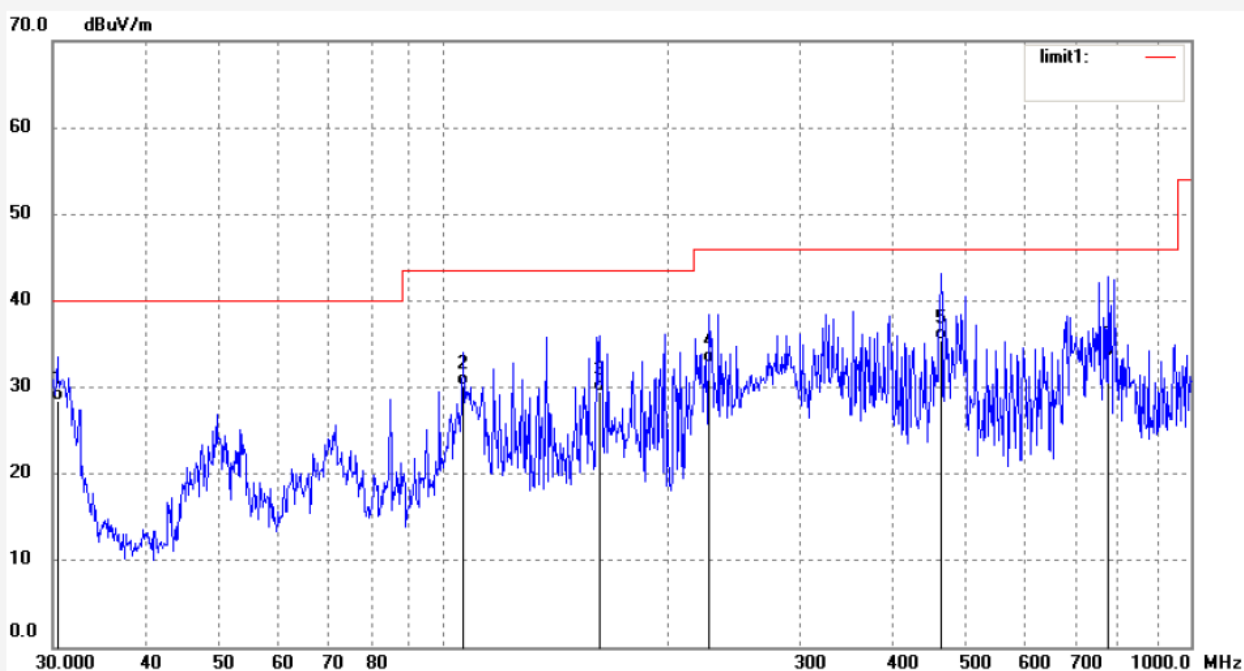
Date: 2017/06/29

Time: 19:03:12

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.4246	44.16	-15.80	28.36	40.00	-11.64	QP			
2	106.2810	50.47	-20.20	30.27	43.50	-13.23	QP			
3	162.0197	50.36	-20.87	29.49	43.50	-14.01	QP			
4	227.0164	50.96	-18.23	32.73	46.00	-13.27	QP			
5	463.2561	47.12	-11.72	35.40	46.00	-10.60	QP			
6	773.7612	39.41	-5.84	33.57	46.00	-12.43	QP			

Above 1GHz



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Job No.: DING #3818

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

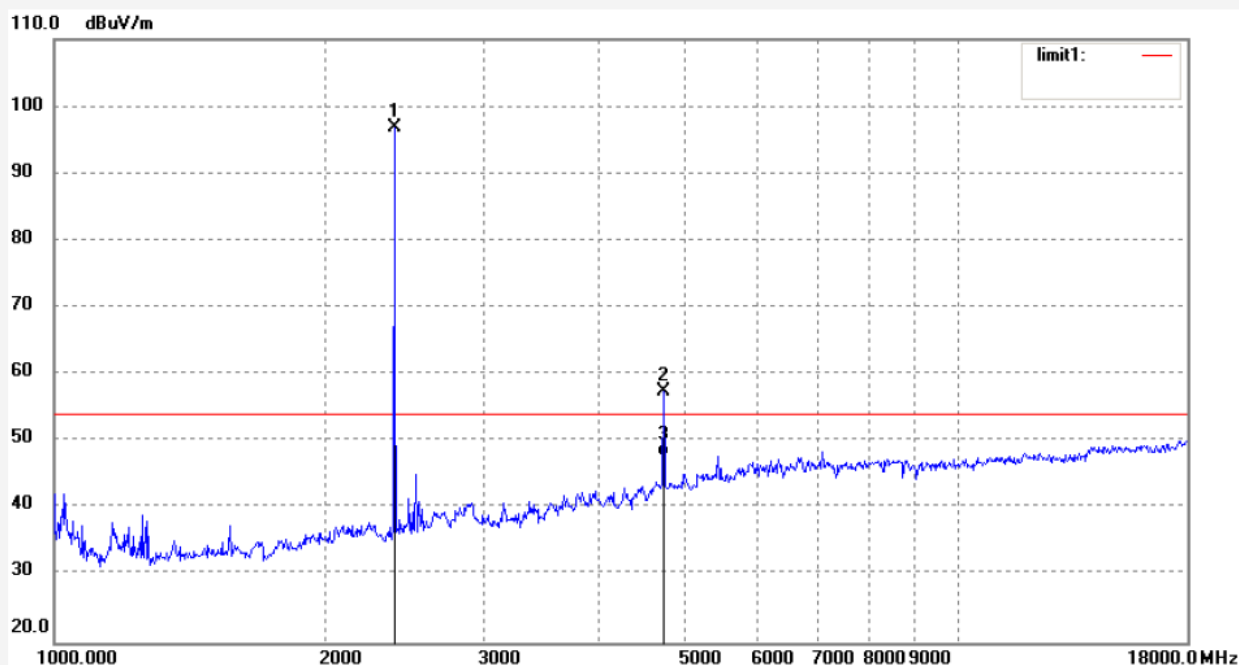
Date: 17/06/29/

Time: 14/08/52

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	102.77	-5.98	96.79			peak			
2	4804.057	54.21	3.15	57.36	74.00	-16.64	peak			
3	4804.057	44.53	3.15	47.68	54.00	-6.32	AVG			

Job No.: DING #3819

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2402MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

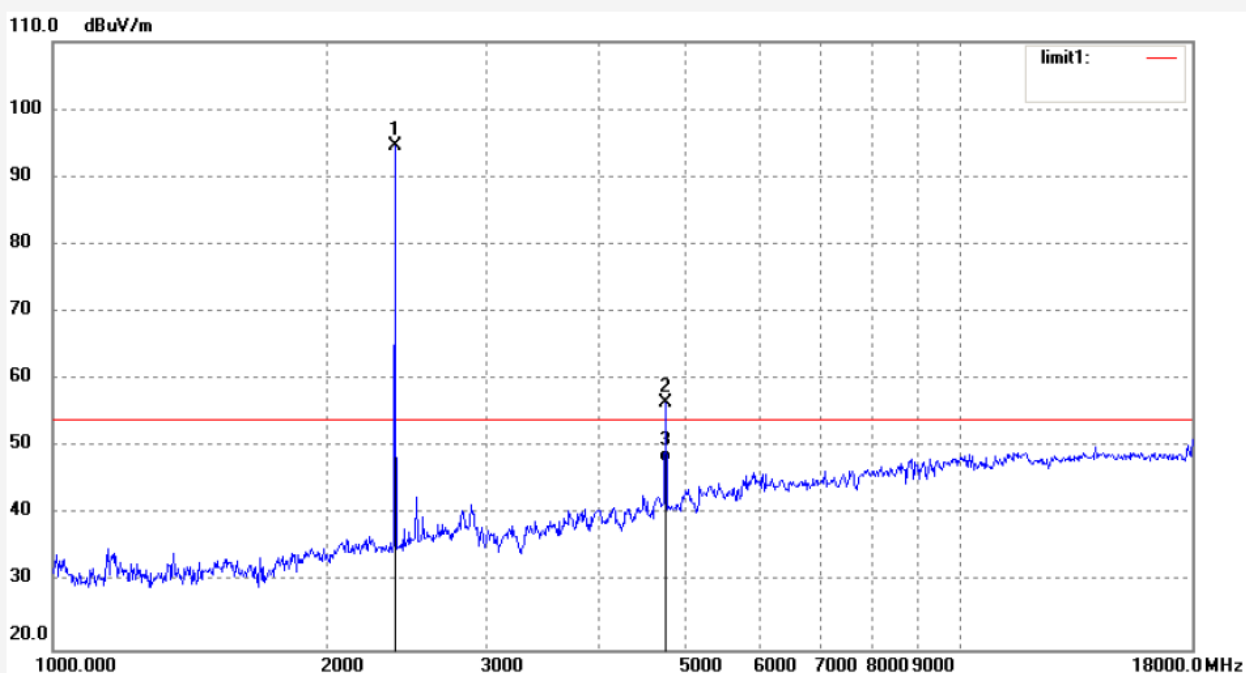
Date: 17/06/29/

Time: 14/11/20

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	100.60	-5.98	94.62			peak			
2	4804.057	53.47	3.15	56.62	74.00	-17.38	peak			
3	4804.057	44.67	3.15	47.82	54.00	-6.18	AVG			

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Job No.: DING #3821

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2440MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

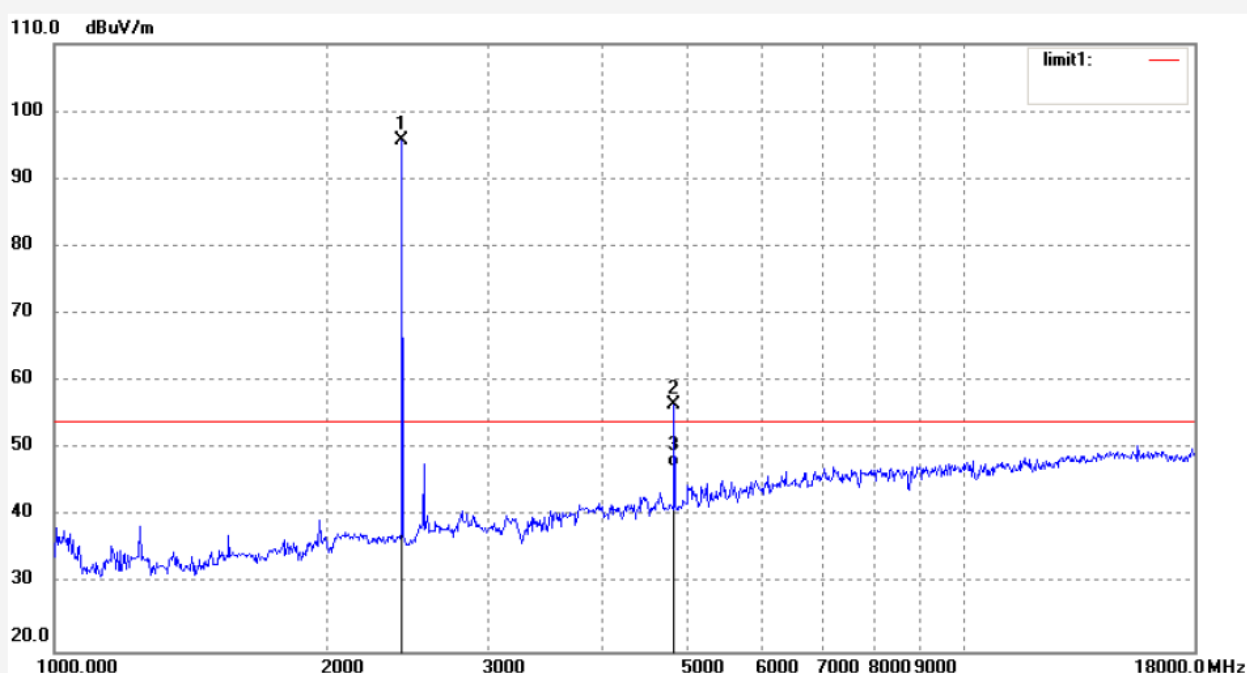
Date: 17/06/29/

Time: 14/18/55

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.021	101.46	-5.72	95.74			peak			
2	4880.324	52.95	3.67	56.62	74.00	-17.38	peak			
3	4880.324	43.62	3.67	47.29	54.00	-6.71	AVG			

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Job No.: DING #3820

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2440MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

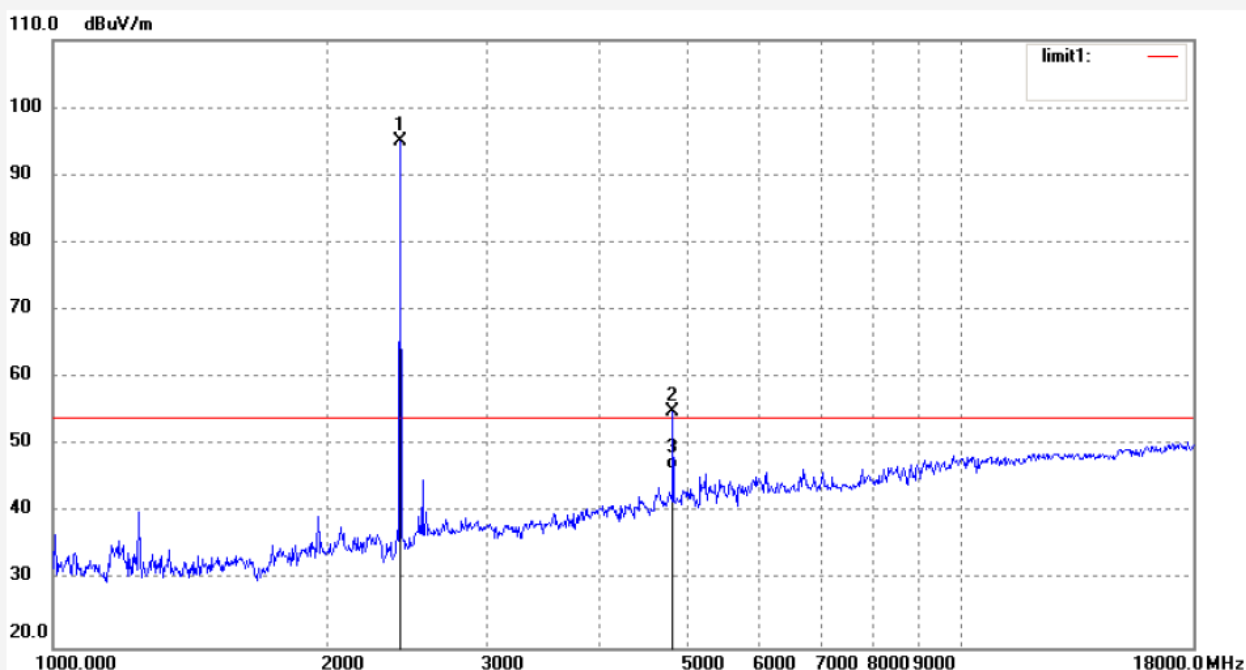
Date: 17/06/29/

Time: 14/16/46

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.600	100.69	-5.76	94.93			peak			
2	4880.324	51.25	3.67	54.92	74.00	-19.08	peak			
3	4880.324	42.78	3.67	46.45	54.00	-7.55	AVG			

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Job No.: DING #3822

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Horizontal

Power Source: AC 120V/60Hz

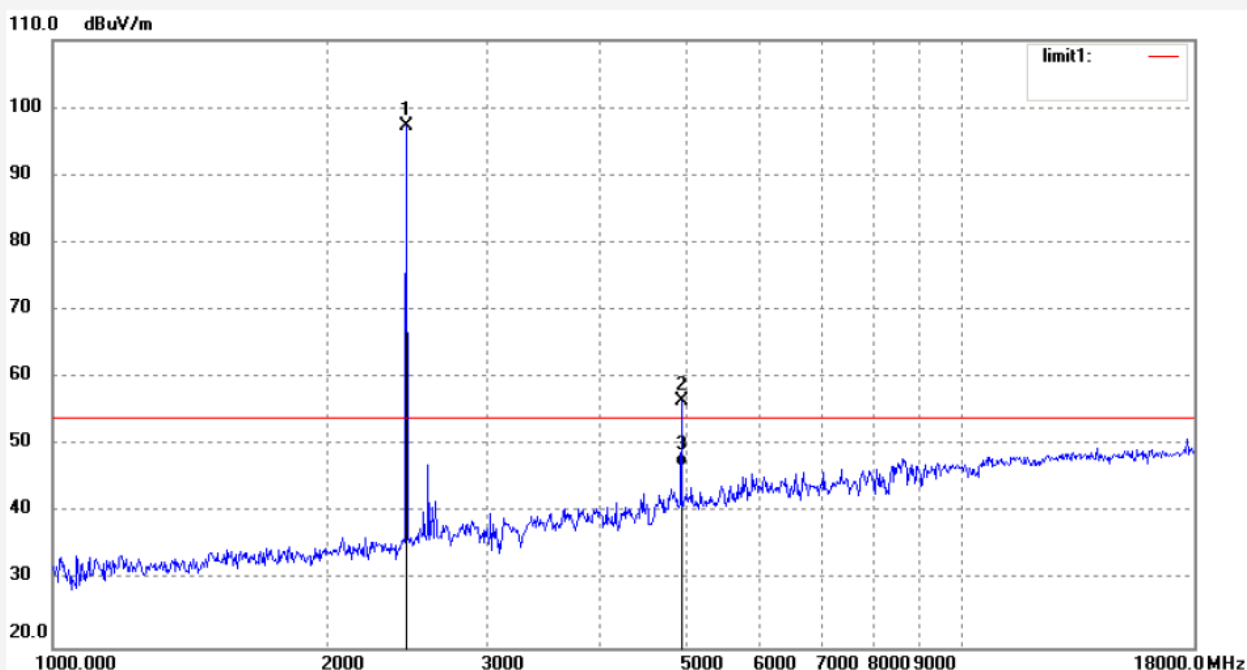
Date: 17/06/29/

Time: 14/20/47

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	102.80	-5.55	97.25			peak			
2	4960.444	51.94	4.54	56.48	74.00	-17.52	peak			
3	4960.444	42.36	4.54	46.90	54.00	-7.10	AVG			



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Job No.: DING #3823

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX 2480MHz

Model: EC-624H

Manufacturer: COMFORT

Polarization: Vertical

Power Source: AC 120V/60Hz

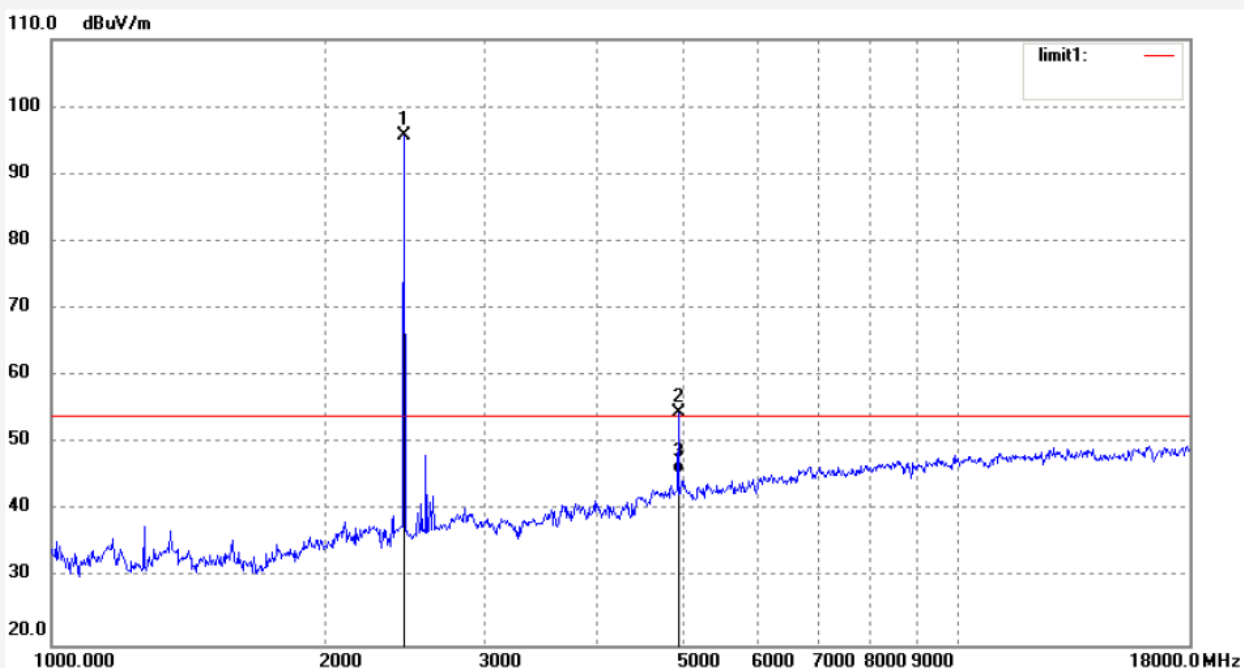
Date: 17/06/29/

Time: 14/22/01

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20171243



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	101.30	-5.55	95.75			peak			
2	4960.444	49.99	4.54	54.53	74.00	-19.47	peak			
3	4960.444	40.94	4.54	45.48	54.00	-8.52	AVG			

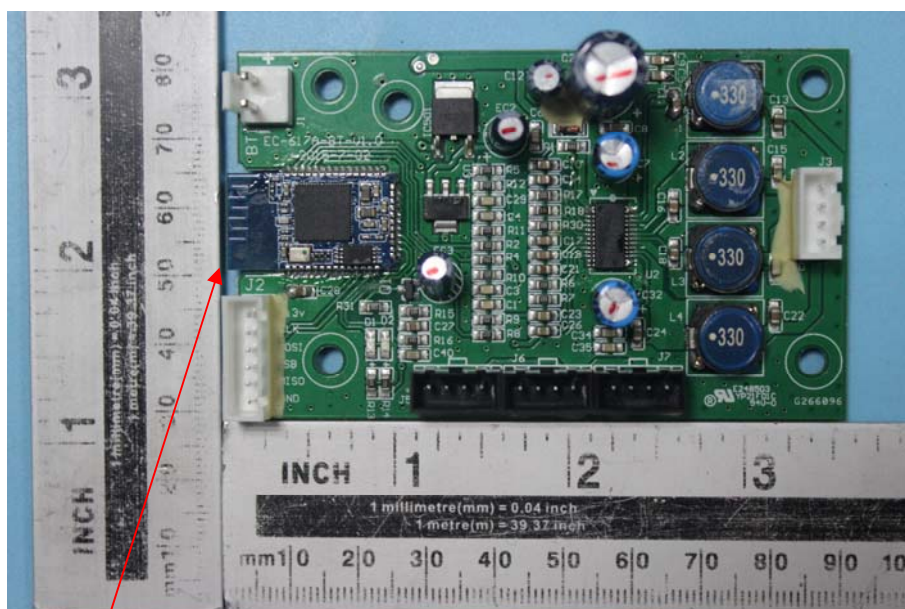
11.ANTENNA REQUIREMENT

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 permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2 dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

----- THE END OF TEST REPORT -----