

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of

XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Massage Chair

Model No.: EC-628M

FCC ID: YMX-EC628M

Prepared for : XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP
CO., LTD
Address : (5/F) NO.168, QIANPU ROAD, SIMING DISTRICT,
XIAMEN, China
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Report No. : ATE20180569
Date of Test : April 20-May 31, 2018
Date of Report : June 11, 2018

TABLE OF CONTENTS

| Description | Page |
|---|-----------|
| Test Report Certification | |
| 1. GENERAL INFORMATION | 5 |
| 1.1. Description of Device (EUT)..... | 5 |
| 1.2. Carrier Frequency of Channels..... | 6 |
| 1.3. Accessory and Auxiliary Equipment | 6 |
| 1.4. Description of Test Facility | 7 |
| 1.5. Measurement Uncertainty | 7 |
| 2. MEASURING DEVICE AND TEST EQUIPMENT | 8 |
| 3. OPERATION OF EUT DURING TESTING | 9 |
| 3.1. Operating Mode | 9 |
| 3.2. Configuration and peripherals | 9 |
| 4. TEST PROCEDURES AND RESULTS | 10 |
| 5. 20DB BANDWIDTH TEST..... | 11 |
| 5.1. Block Diagram of Test Setup..... | 11 |
| 5.2. The Requirement For Section 15.247(a)(1)..... | 11 |
| 5.3. EUT Configuration on Measurement | 11 |
| 5.4. Operating Condition of EUT | 11 |
| 5.5. Test Procedure | 11 |
| 5.6. Test Result | 12 |
| 6. CARRIER FREQUENCY SEPARATION TEST..... | 17 |
| 6.1. Block Diagram of Test Setup..... | 17 |
| 6.2. The Requirement For Section 15.247(a)(1)..... | 17 |
| 6.3. EUT Configuration on Measurement | 17 |
| 6.4. Operating Condition of EUT | 17 |
| 6.5. Test Procedure | 18 |
| 6.6. Test Result | 18 |
| 7. NUMBER OF HOPPING FREQUENCY TEST | 24 |
| 7.1. Block Diagram of Test Setup..... | 24 |
| 7.2. The Requirement For Section 15.247(a)(1)(iii)..... | 24 |
| 7.3. EUT Configuration on Measurement | 24 |
| 7.4. Operating Condition of EUT | 24 |
| 7.5. Test Procedure | 24 |
| 7.6. Test Result | 25 |
| 8. DWELL TIME TEST | 27 |
| 8.1. Block Diagram of Test Setup..... | 27 |
| 8.2. The Requirement For Section 15.247(a)(1)(iii)..... | 27 |
| 8.3. EUT Configuration on Measurement | 27 |
| 8.4. Operating Condition of EUT | 27 |
| 8.5. Test Procedure | 27 |
| 8.6. Test Result | 28 |
| 9. MAXIMUM PEAK OUTPUT POWER TEST | 43 |
| 9.1. Block Diagram of Test Setup..... | 43 |

| | | |
|------------|--|-----------|
| 9.2. | The Requirement For Section 15.247(b)(1)..... | 43 |
| 9.3. | EUT Configuration on Measurement | 43 |
| 9.4. | Operating Condition of EUT | 43 |
| 9.5. | Test Procedure | 43 |
| 9.6. | Test Result | 44 |
| 10. | RADIATED EMISSION TEST | 50 |
| 10.1. | Block Diagram of Test Setup..... | 50 |
| 10.2. | The Limit For Section 15.247(d) | 51 |
| 10.3. | Restricted bands of operation | 52 |
| 10.4. | Configuration of EUT on Measurement | 52 |
| 10.5. | Test Procedure | 53 |
| 10.6. | Data Sample..... | 54 |
| 10.7. | The Field Strength of Radiation Emission Measurement Results | 54 |
| 11. | BAND EDGE COMPLIANCE TEST | 67 |
| 11.1. | Block Diagram of Test Setup..... | 67 |
| 11.2. | The Requirement For Section 15.247(d) | 67 |
| 11.3. | EUT Configuration on Measurement | 67 |
| 11.4. | Operating Condition of EUT | 67 |
| 11.5. | Test Procedure | 68 |
| 11.6. | Test Result | 68 |
| 12. | AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) .. | 91 |
| 12.1. | Block Diagram of Test Setup..... | 91 |
| 12.2. | Power Line Conducted Emission Measurement Limits..... | 92 |
| 12.3. | Configuration of EUT on Measurement | 92 |
| 12.4. | Operating Condition of EUT | 92 |
| 12.5. | Test Procedure | 92 |
| 12.6. | Data Sample..... | 93 |
| 12.7. | Power Line Conducted Emission Measurement Results | 94 |
| 13. | ANTENNA REQUIREMENT..... | 97 |
| 13.1. | The Requirement | 97 |
| 13.2. | Antenna Construction | 97 |

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-628M
Trade Name : n.a.

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247:2017
ANSI C63.10: 2013**

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 : April 20-May 31, 2018
Date of Report: June 11, 2018

Prepared by : _____
(Bob Wang, Engineer)

Approved & Authorized Signer : _____
(Sean Liu, Manager)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | | |
|-------------------------|---|---|
| EUT | : | Massage Chair |
| Model Number | : | EC-628M |
| Bluetooth version | : | BT V4.0 (Because of firmware limitation, this device only supports Bluetooth V4.0(BR+EDR mode) without the BLE mode) |
| Frequency Range | : | 2402MHz-2480MHz |
| Number of Channels | : | 79 |
| Antenna Gain | : | 2.0 dBi |
| Modulation mode | : | GFSK, $\pi/4$ DQPSK, 8DPSK |
| Antenna type | : | PCB Antenna |
| Power Supply | : | AC 110-120V; 60Hz |
| 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 |
| Date of sample receiver | : | April 17, 2018 |
| Date of Test | : | April 20-May 31, 2018 |
| Sample No. | : | 1800445 |

1.2. Carrier Frequency of Channels

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0 | 2402 | 20 | 2422 | 40 | 2442 | 60 | 2462 |
| 1 | 2403 | 21 | 2423 | 41 | 2443 | 61 | 2463 |
| 2 | 2404 | 22 | 2424 | 42 | 2444 | 62 | 2464 |
| 3 | 2405 | 23 | 2425 | 43 | 2445 | 63 | 2465 |
| 4 | 2406 | 24 | 2426 | 44 | 2446 | 64 | 2466 |
| 5 | 2407 | 25 | 2427 | 45 | 2447 | 65 | 2467 |
| 6 | 2408 | 26 | 2428 | 46 | 2448 | 66 | 2468 |
| 7 | 2409 | 27 | 2429 | 47 | 2449 | 67 | 2469 |
| 8 | 2410 | 28 | 2430 | 48 | 2450 | 68 | 2470 |
| 9 | 2411 | 29 | 2431 | 49 | 2451 | 69 | 2471 |
| 10 | 2412 | 30 | 2432 | 50 | 2452 | 70 | 2472 |
| 11 | 2413 | 31 | 2433 | 51 | 2453 | 71 | 2473 |
| 12 | 2414 | 32 | 2434 | 52 | 2454 | 72 | 2474 |
| 13 | 2415 | 33 | 2435 | 53 | 2455 | 73 | 2475 |
| 14 | 2416 | 34 | 2436 | 54 | 2456 | 74 | 2476 |
| 15 | 2417 | 35 | 2437 | 55 | 2457 | 75 | 2477 |
| 16 | 2418 | 36 | 2438 | 56 | 2458 | 76 | 2478 |
| 17 | 2419 | 37 | 2439 | 57 | 2459 | 77 | 2479 |
| 18 | 2420 | 38 | 2440 | 58 | 2460 | 78 | 2480 |
| 19 | 2421 | 39 | 2441 | 59 | 2461 | | |

1.3. 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

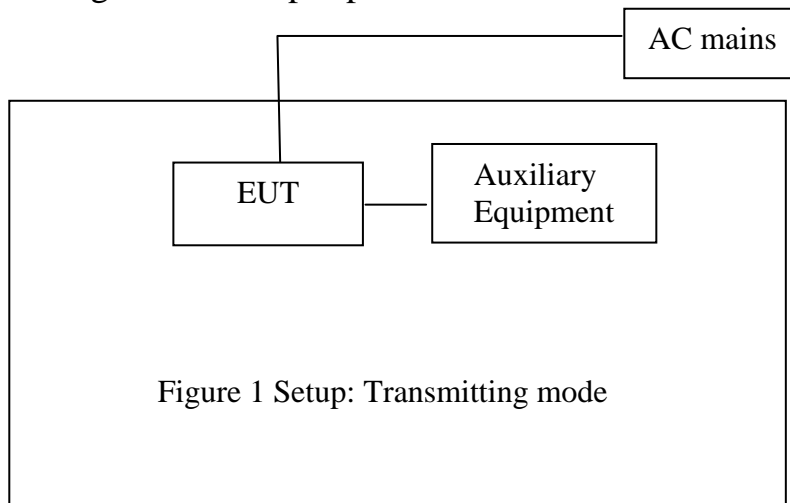
| Kind of equipment | Manufacturer | Type | S/N | Calibrated dates | Calibrated until |
|--------------------|---------------------------|---|------------|------------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 06, 2018 | 1 Year |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 06, 2018 | 1 Year |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 06, 2018 | 1 Year |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 06, 2018 | 1 Year |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 06, 2018 | 1 Year |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 06, 2018 | 1 Year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 06, 2018 | 1 Year |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 06, 2018 | 1 Year |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 06, 2018 | 1 Year |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 06, 2018 | 1 Year |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18 G-10SS | N/A | Jan. 06, 2018 | 1 Year |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2 485-2375/2510 -60/11SS | N/A | Jan. 06, 2018 | 1 Year |

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: Transmitting mode
Low Channel: 2402MHz
Middle Channel: 2441MHz
High Channel: 2480MHz
Hopping

3.2. Configuration and peripherals

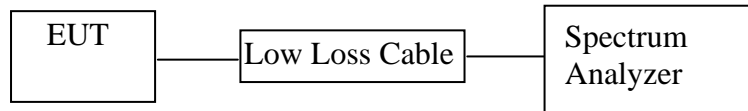


4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------------------|-----------------------------------|---------------|
| Section 15.207 | Conducted Emission Test | Compliant |
| Section 15.247(a)(1) | 20dB Bandwidth Test | Compliant |
| Section 15.247(a)(1) | Carrier Frequency Separation Test | Compliant |
| Section 15.247(a)(1)(iii) | Number Of Hopping Frequency Test | Compliant |
| Section 15.247(a)(1)(iii) | Dwell Time Test | Compliant |
| Section 15.247(b)(1) | Maximum Peak Output Power Test | Compliant |
| Section 15.247(d) Section 15.209 | Radiated Emission Test | Compliant |
| Section 15.247(d) | Band Edge Compliance Test | Compliant |
| Section 15.203 | Antenna Requirement | Compliant |

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: Massage Chair)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3. 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.

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 TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

5.5. Test Procedure

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

5.5.2. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.

5.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

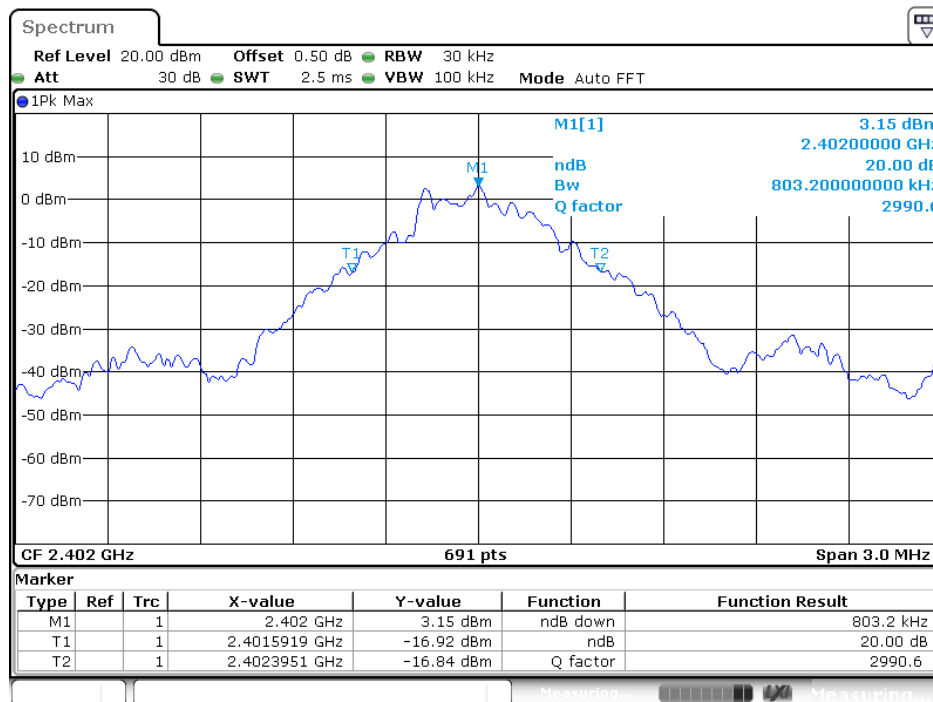
5.6. Test Result

| Channel | Frequency (MHz) | GFSK 20dB Bandwidth (MHz) | Π/4-DQPSK 20dB Bandwidth (MHz) | 8DPSK 20dB Bandwidth (MHz) | Result |
|---------|-----------------|---------------------------|--------------------------------|----------------------------|--------|
| Low | 2402 | 0.803 | 1.220 | 1.207 | Pass |
| Middle | 2441 | 0.803 | 1.220 | 1.207 | Pass |
| High | 2480 | 0.803 | 1.224 | 1.211 | Pass |

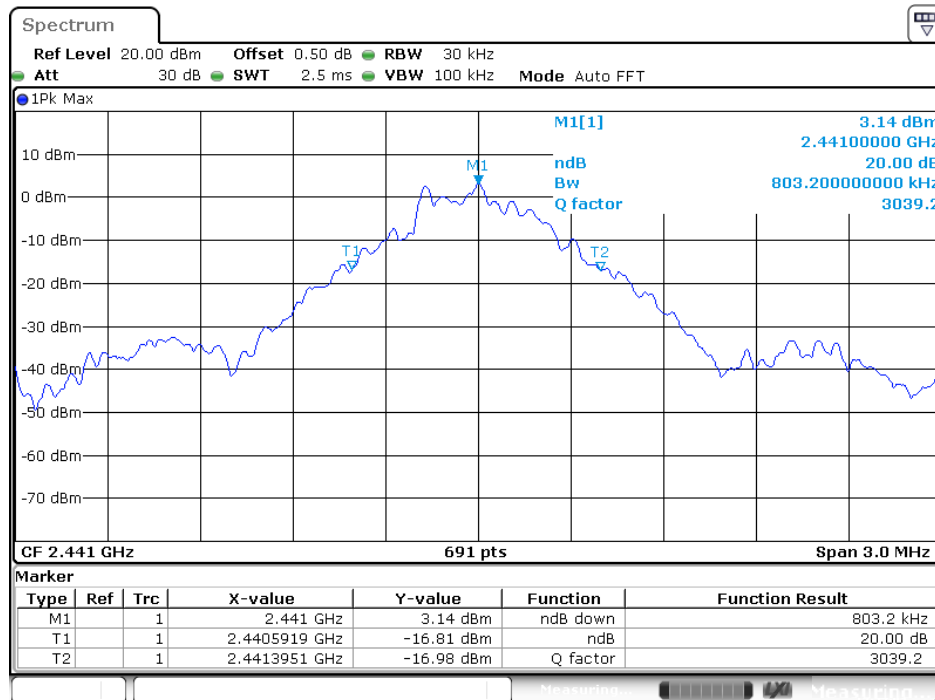
The spectrum analyzer plots are attached as below.

GFSK Mode

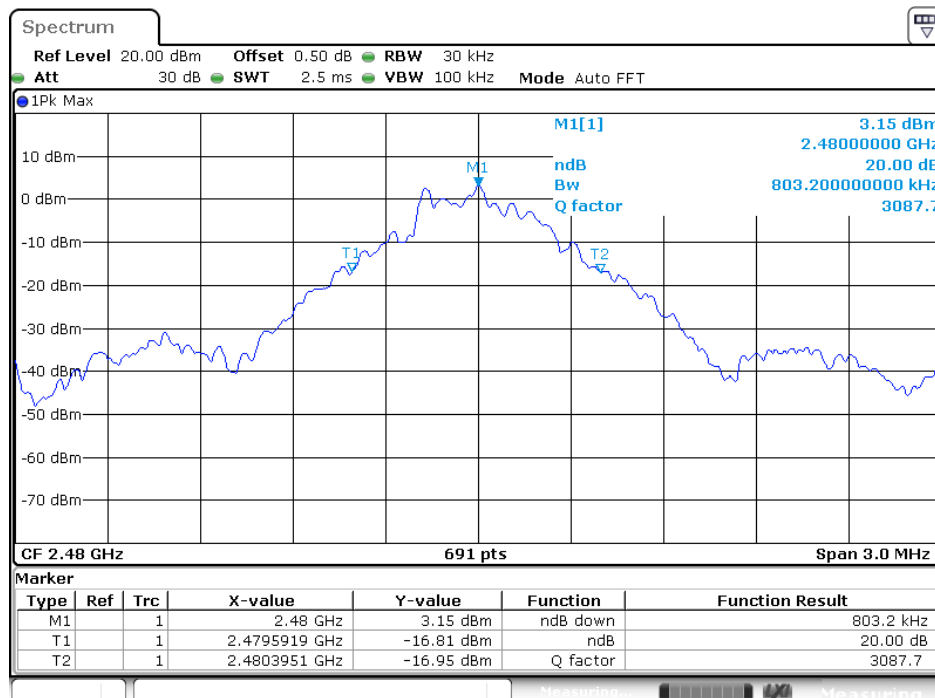
Low channel



Middle channel

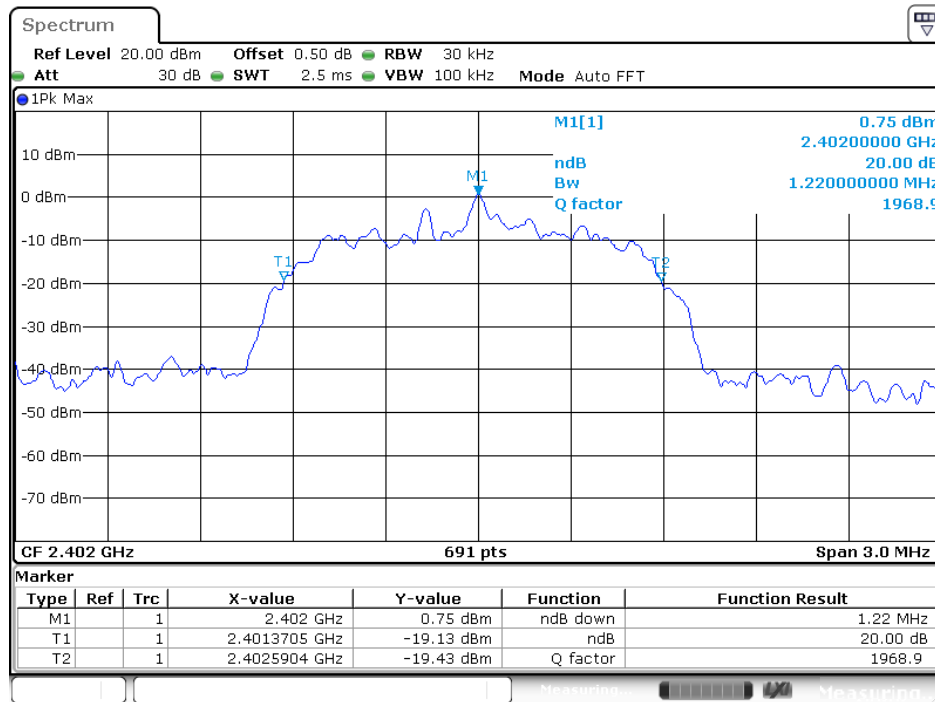


High channel

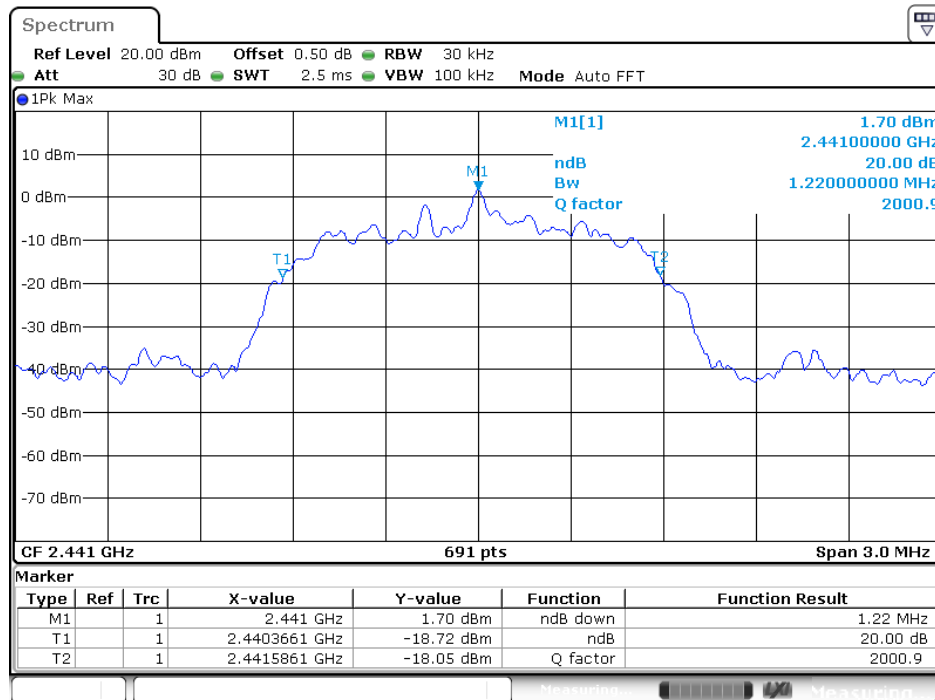


Π/4-DQPSK Mode

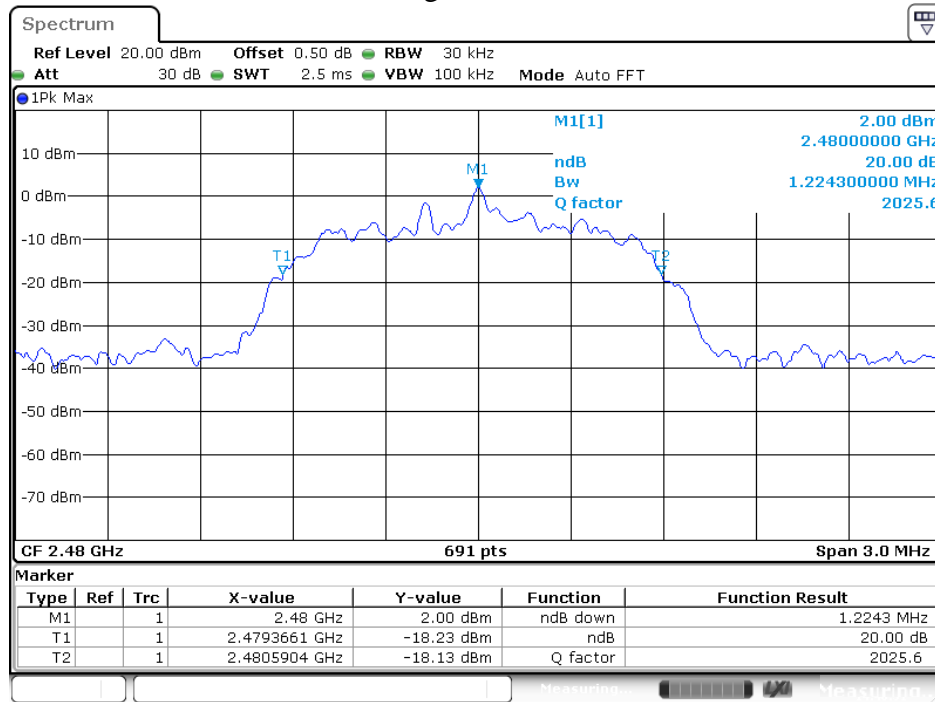
Low channel



Middle channel

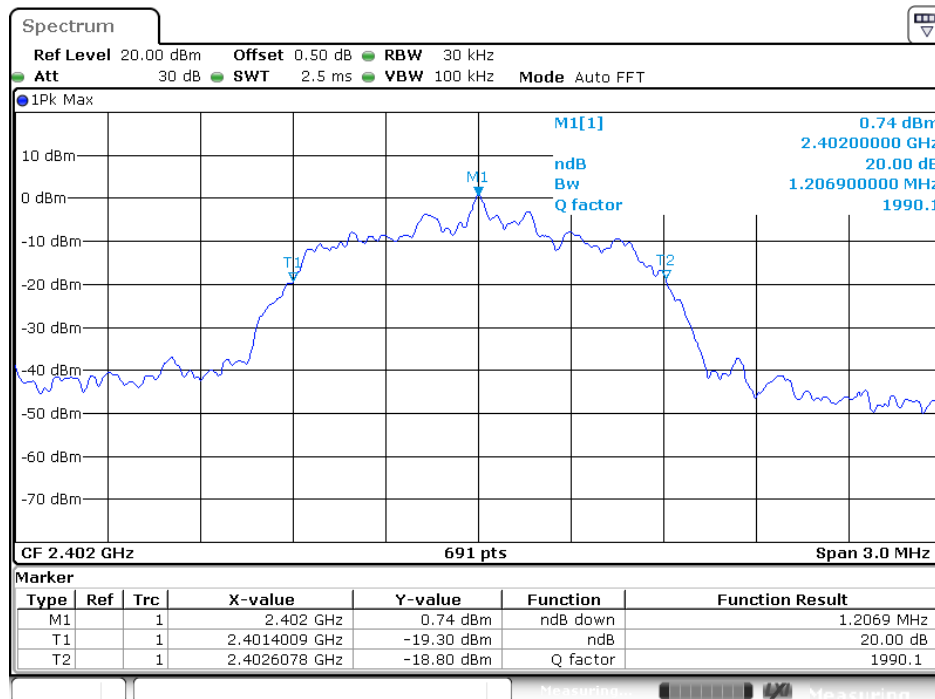


High channel

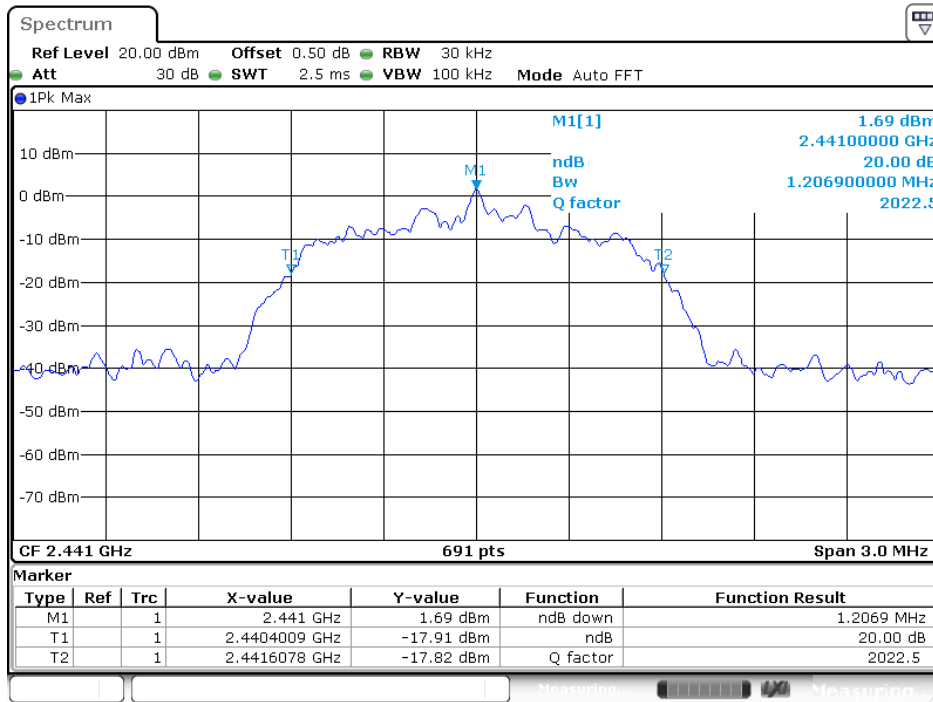


8DPSK Mode

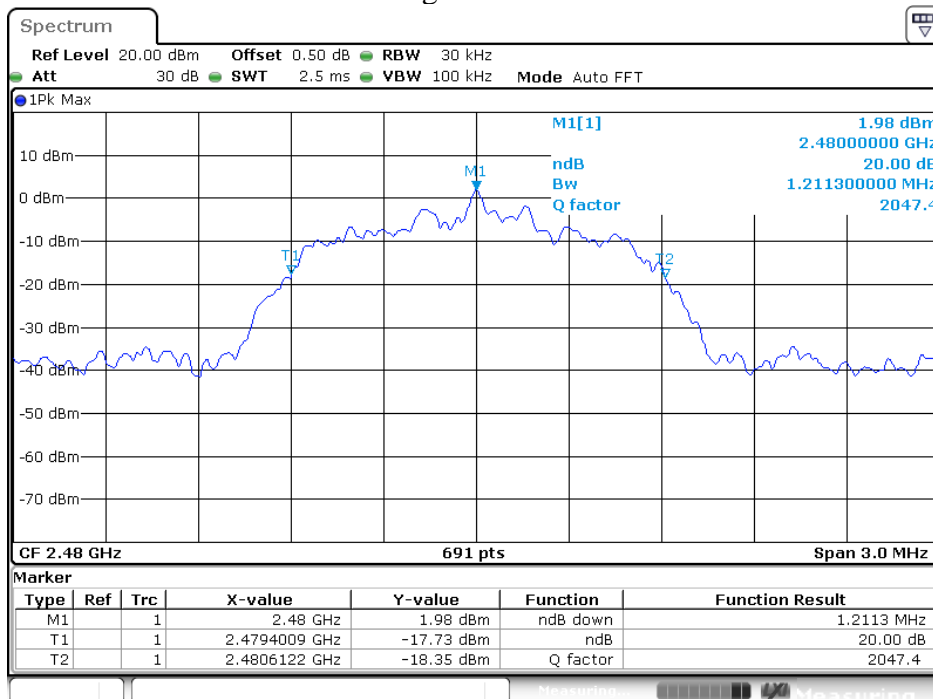
Low channel



Middle channel

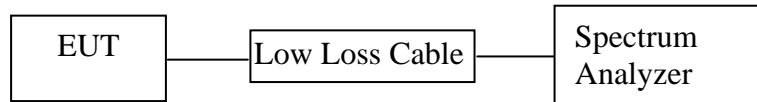


High channel



6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: Massage Chair)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3. 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.

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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 30 kHz and VBW to 100 kHz. Adjust Span to 2MHz.

6.5.3. Set the adjacent channel of the EUT Maxhold another trace.

6.5.4. Measurement the channel separation

6.6. Test Result

GFSK

| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result |
|---------|-----------------|-------------------------|--------------|--------|
| Low | 2402 | 1.0014 | ≥ 0.803 | PASS |
| | 2403 | | | |
| Middle | 2440 | 1.0014 | ≥ 0.803 | PASS |
| | 2441 | | | |
| High | 2479 | 1.0014 | ≥ 0.803 | PASS |
| | 2480 | | | |

Π/4-DQPSK

| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result |
|---------|-----------------|-------------------------|--------------|--------|
| Low | 2402 | 1.0029 | ≥ 0.813 | PASS |
| | 2403 | | | |
| Middle | 2440 | 1.0029 | ≥ 0.813 | PASS |
| | 2441 | | | |
| High | 2479 | 1.0029 | ≥ 0.816 | PASS |
| | 2480 | | | |

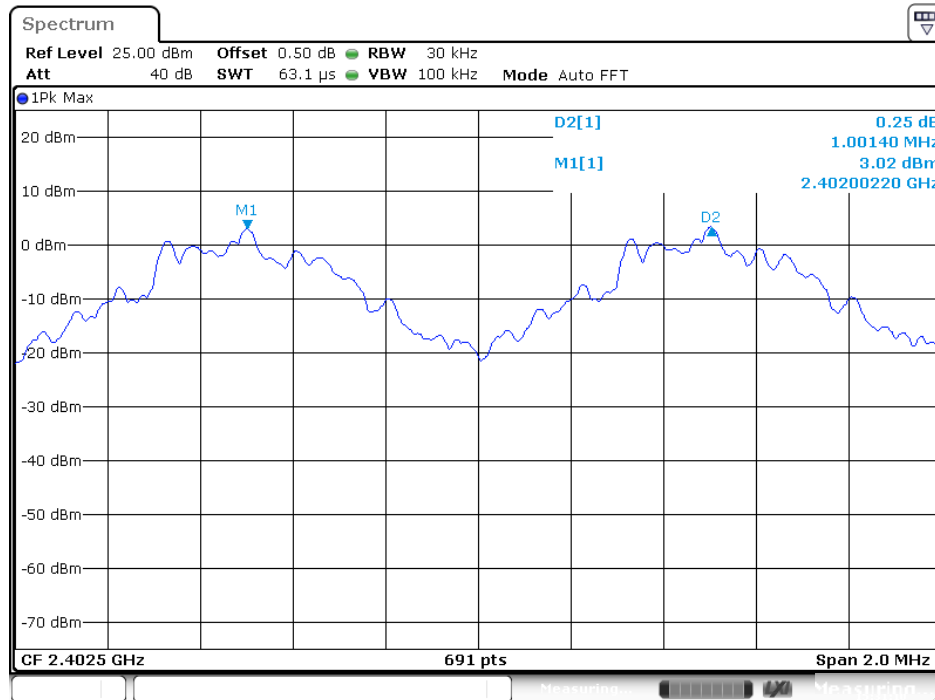
8DPSK

| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result |
|---------|-----------------|-------------------------|--------------|--------|
| Low | 2402 | 1.0029 | ≥ 0.805 | PASS |
| | 2403 | | | |
| Middle | 2440 | 1.0029 | ≥ 0.805 | PASS |
| | 2441 | | | |
| High | 2479 | 1.0029 | ≥ 0.807 | PASS |

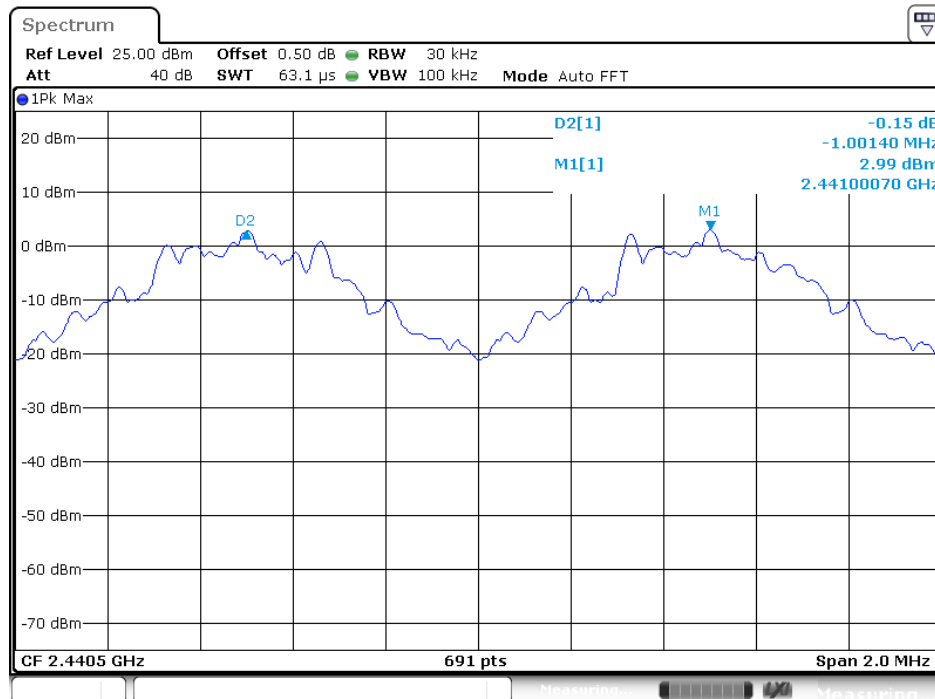
The spectrum analyzer plots are attached as below.

GFSK Mode

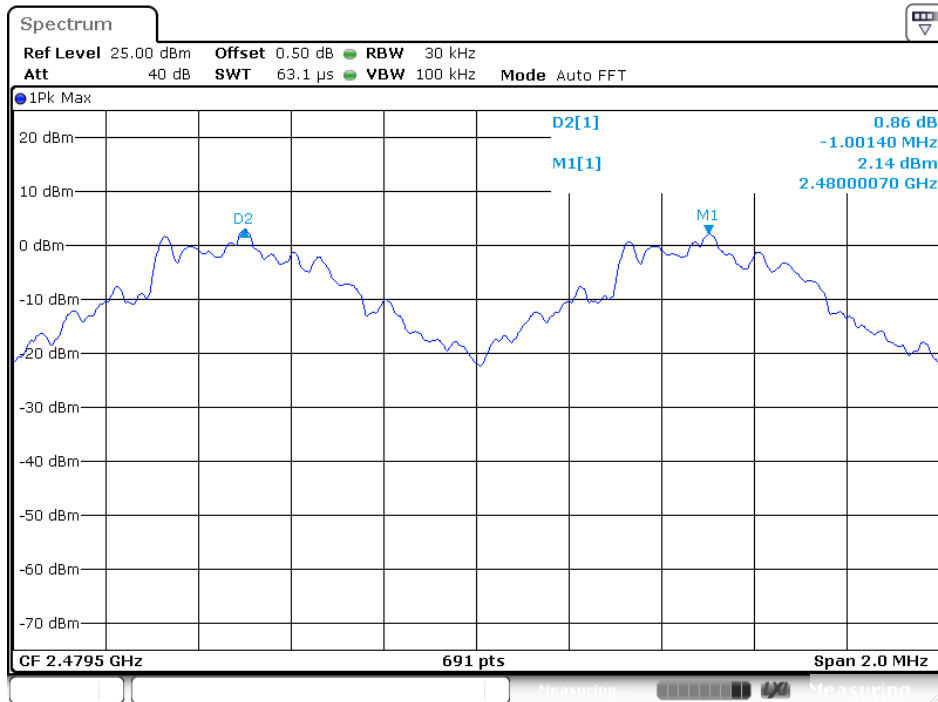
Low channel



Middle channel

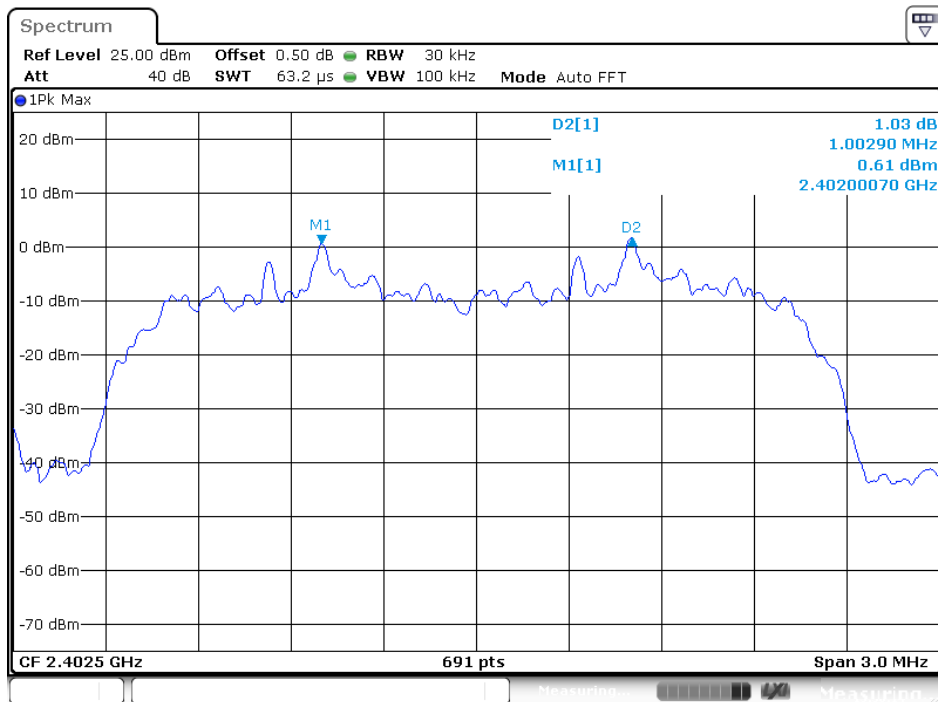


High channel

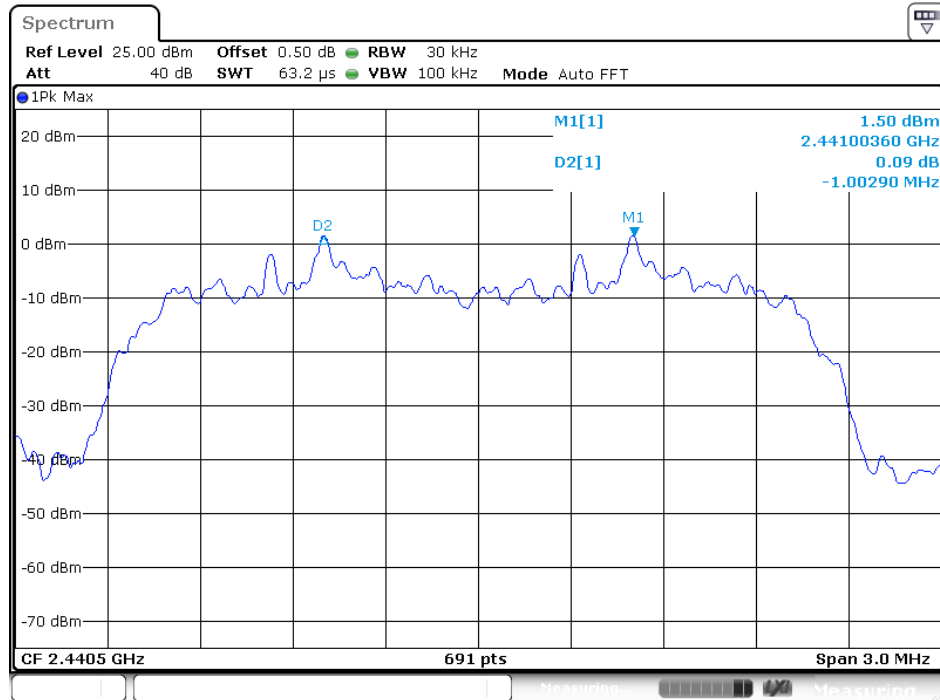


$\Pi/4$ -DQPSK Mode

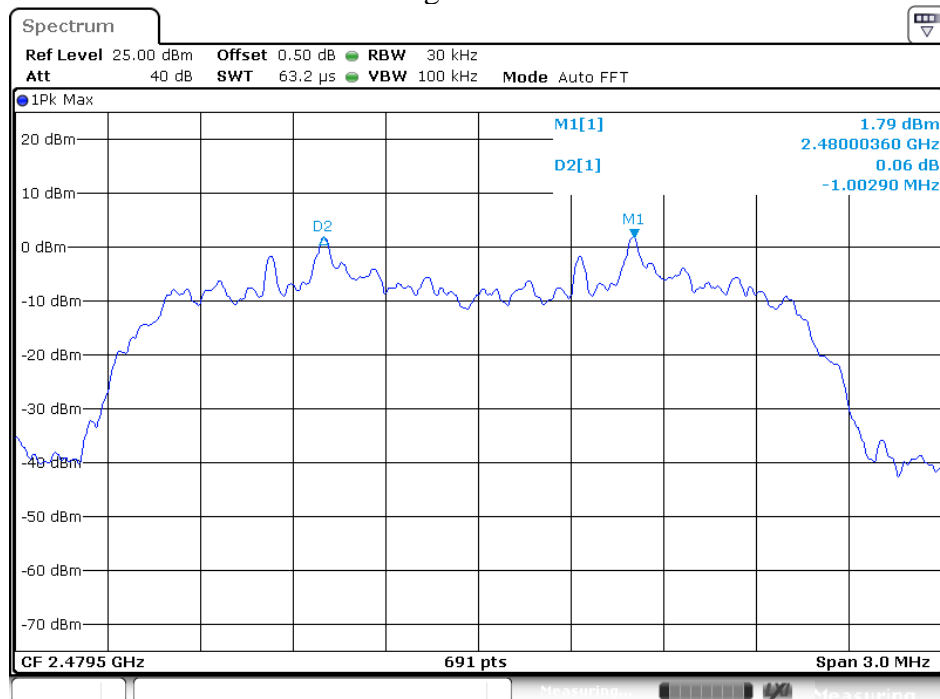
Low channel



Middle channel

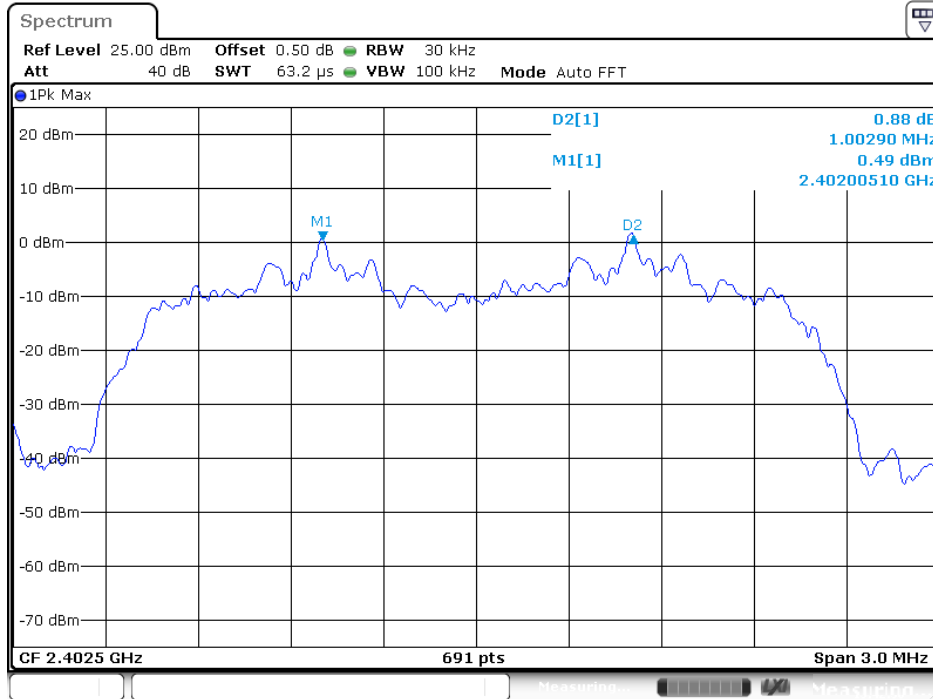


High channel

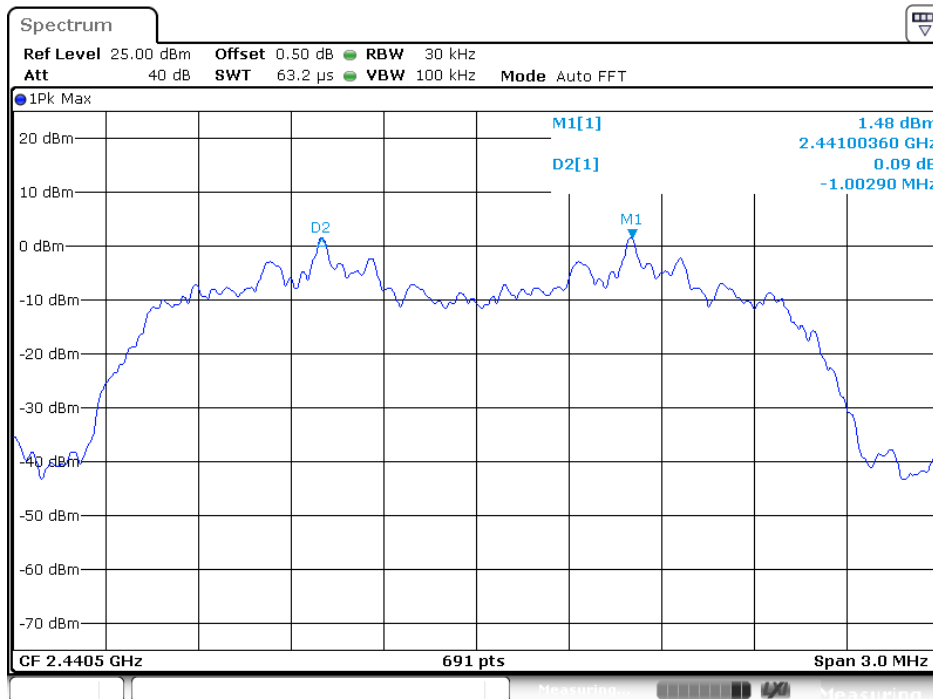


8DPSK Mode

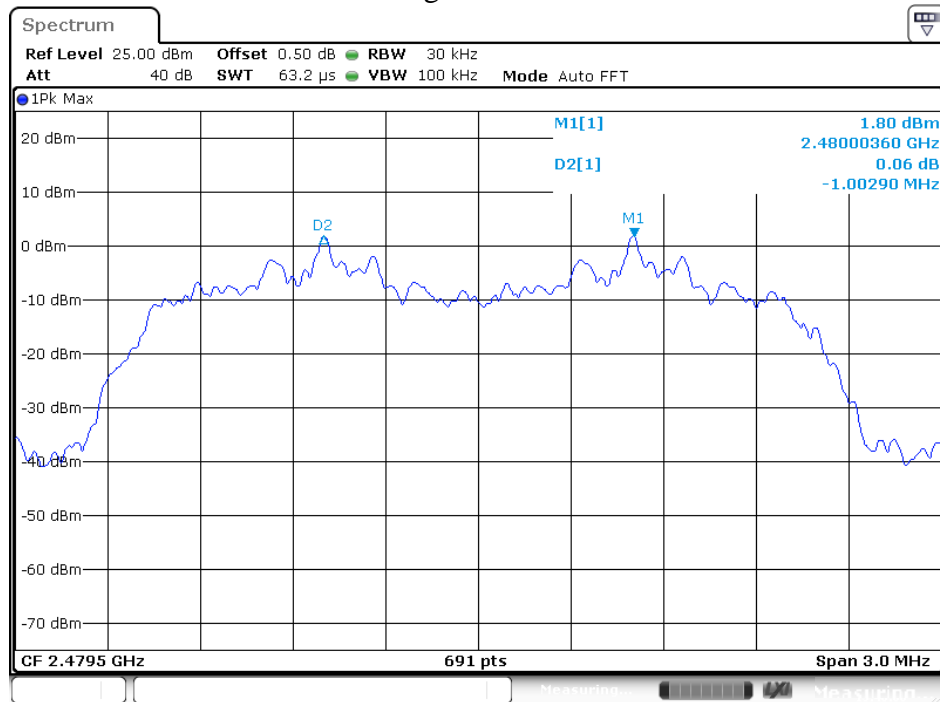
Low channel



Middle channel

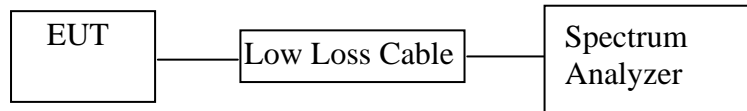


High channel



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: Massage Chair)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

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 (Hopping on) modes measure it.

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 the spectrum analyzer as RBW=100 kHz, VBW=300 kHz.

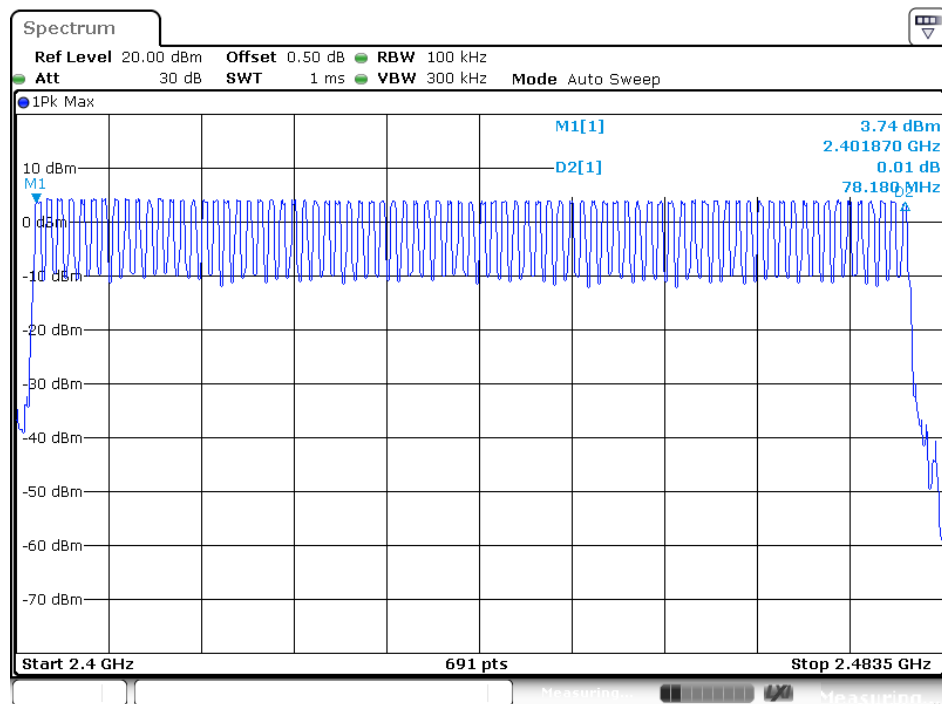
7.5.3. Max hold, view and count how many channel in the band.

7.6. Test Result

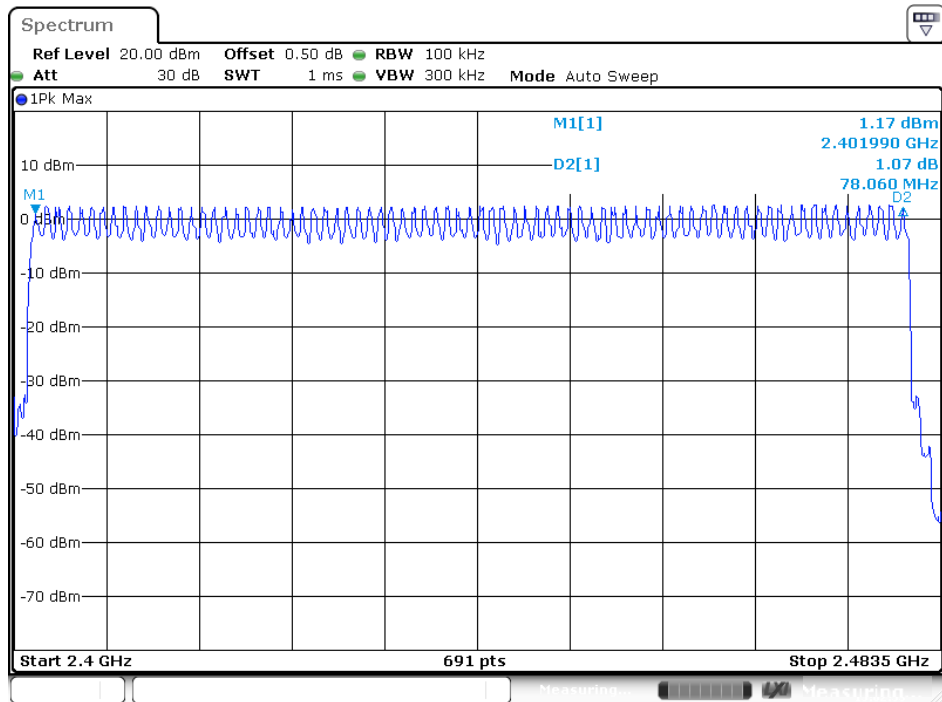
| Total number of hopping channel | Measurement result(CH) | Limit(CH) |
|---------------------------------|------------------------|-----------|
| | 79 | ≥ 15 |

The spectrum analyzer plots are attached as below.

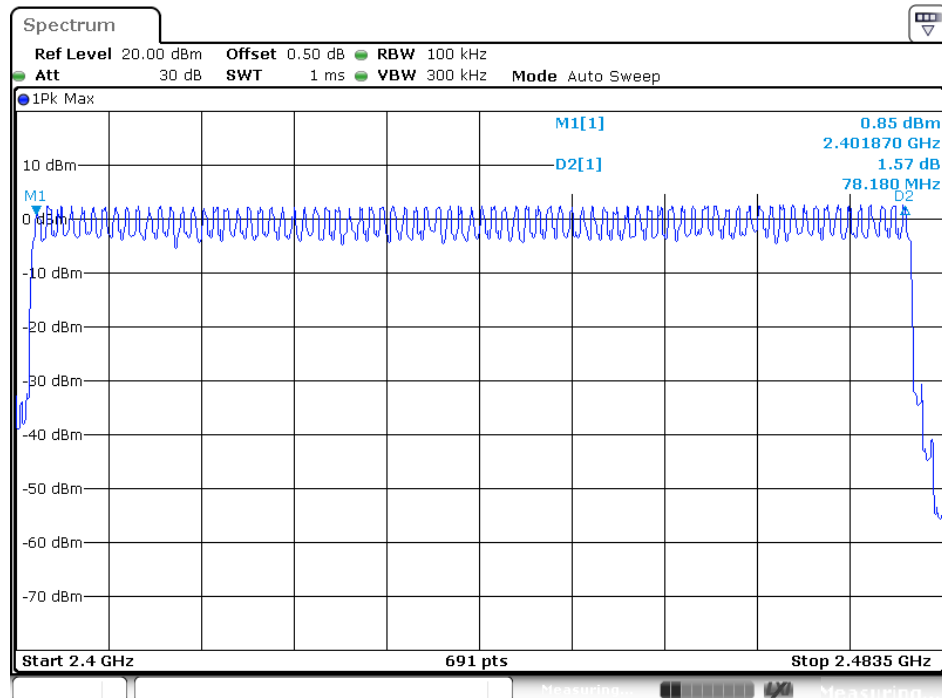
Number of hopping channels(GFSK)



Number of hopping channels($\Pi/4$ -DQPSK)

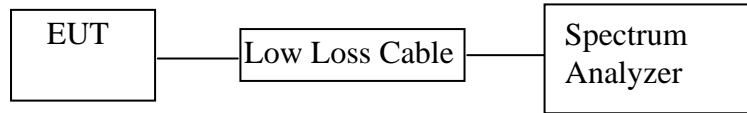


Number of hopping channels(8DPSK)



8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: Massage Chair)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

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 (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 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. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=5ms, 10ms, 15ms. Get the pulse time.

8.5.4.Repeat above procedures until all frequency measured were complete.

8.6.Test Result

GFSK Mode

| Mode | Channel Frequency (MHz) | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) |
|--|-------------------------|-----------------|-----------------|------------|
| DH1 | 2402 | 0.428 | 136.96 | 400 |
| | 2441 | 0.438 | 140.16 | 400 |
| | 2480 | 0.442 | 141.44 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$ | | | | |
| DH3 | 2402 | 1.746 | 279.36 | 400 |
| | 2441 | 1.790 | 286.40 | 400 |
| | 2480 | 1.761 | 281.76 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$ | | | | |
| DH5 | 2402 | 2.978 | 317.65 | 400 |
| | 2441 | 2.978 | 317.65 | 400 |
| | 2480 | 3.000 | 320.00 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$ | | | | |

$\Pi/4$ -DQPSK

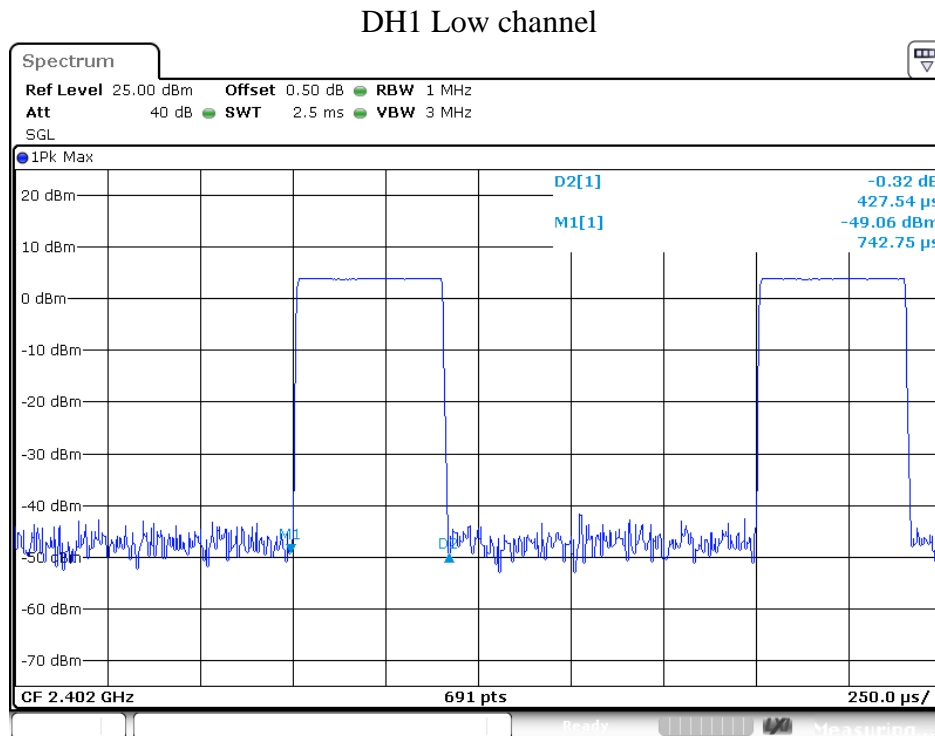
| Mode | Channel Frequency (MHz) | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) |
|--|-------------------------|-----------------|-----------------|------------|
| DH1 | 2402 | 0.446 | 142.72 | 400 |
| | 2441 | 0.442 | 141.44 | 400 |
| | 2480 | 0.438 | 140.16 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$ | | | | |
| DH3 | 2402 | 1.714 | 274.24 | 400 |
| | 2441 | 1.714 | 274.24 | 400 |
| | 2480 | 1.728 | 276.48 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$ | | | | |
| DH5 | 2402 | 3.000 | 320.00 | 400 |
| | 2441 | 3.022 | 322.35 | 400 |
| | 2480 | 2.978 | 317.65 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$ | | | | |

8DPSK Mode

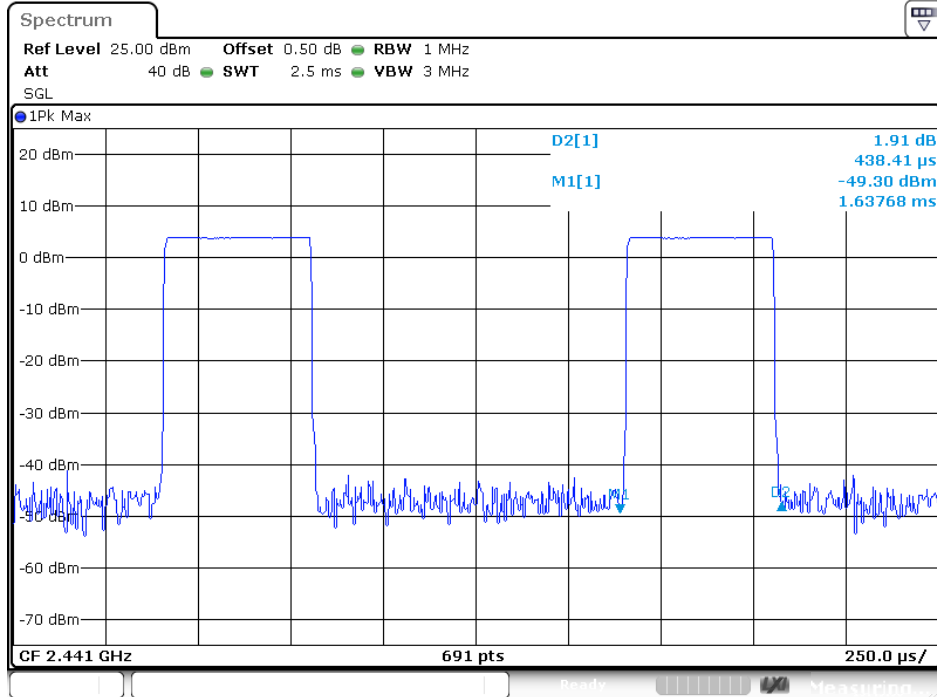
| Mode | Channel Frequency (MHz) | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) |
|--|-------------------------|-----------------|-----------------|------------|
| DH1 | 2402 | 0.449 | 143.68 | 400 |
| | 2441 | 0.446 | 142.72 | 400 |
| | 2480 | 0.446 | 142.72 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$ | | | | |
| DH3 | 2402 | 1.736 | 277.76 | 400 |
| | 2441 | 1.721 | 275.36 | 400 |
| | 2480 | 1.736 | 277.76 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$ | | | | |
| DH5 | 2402 | 3.040 | 324.27 | 400 |
| | 2441 | 2.975 | 317.33 | 400 |
| | 2480 | 3.062 | 326.61 | 400 |
| A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$ | | | | |

The spectrum analyzer plots are attached as below.

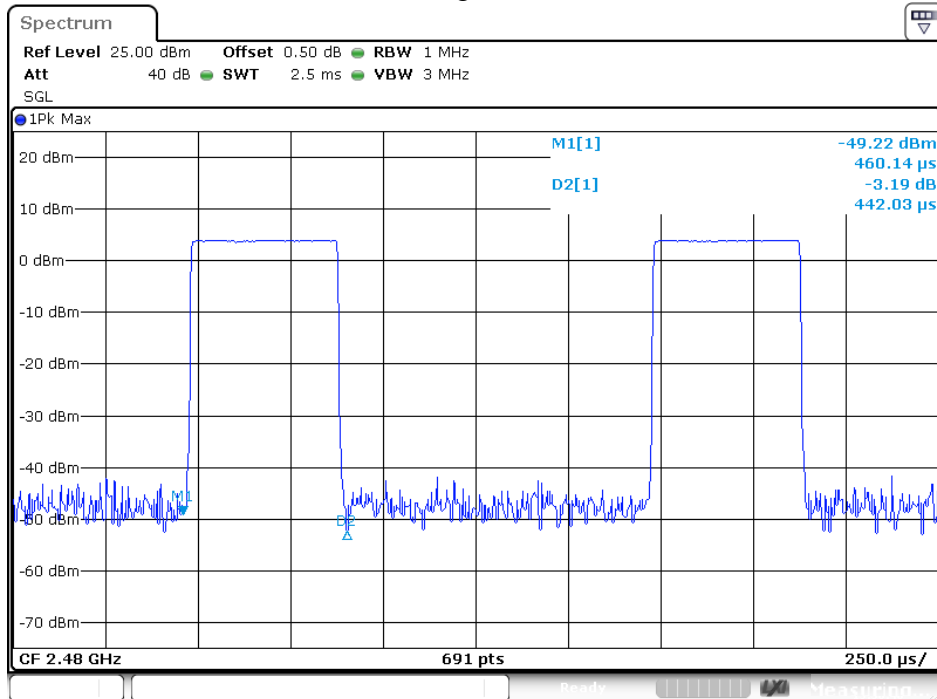
GFSK Mode



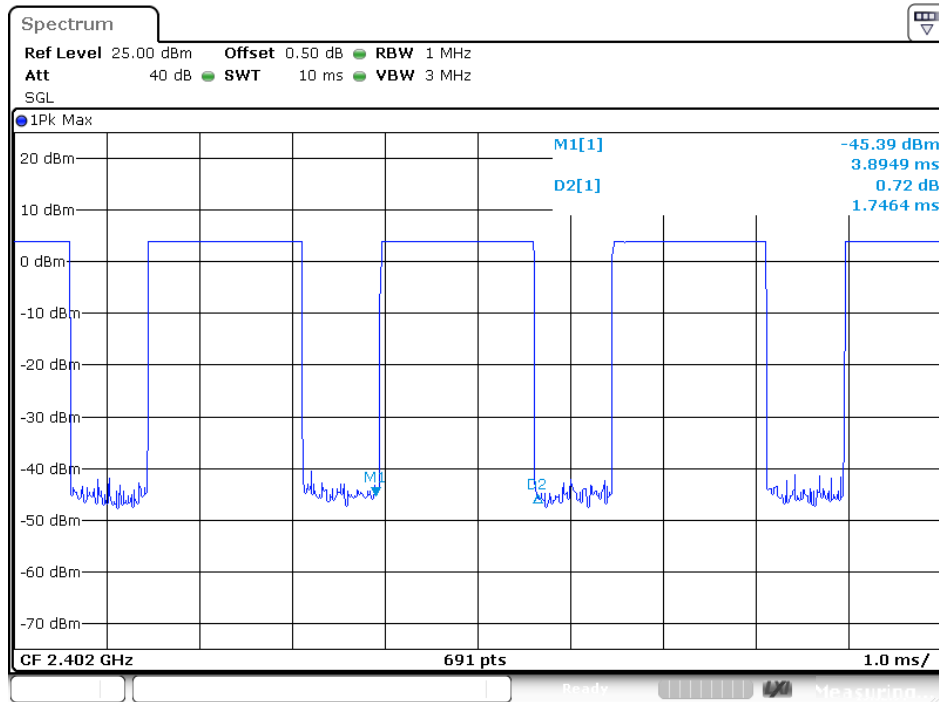
DH1 Middle channel



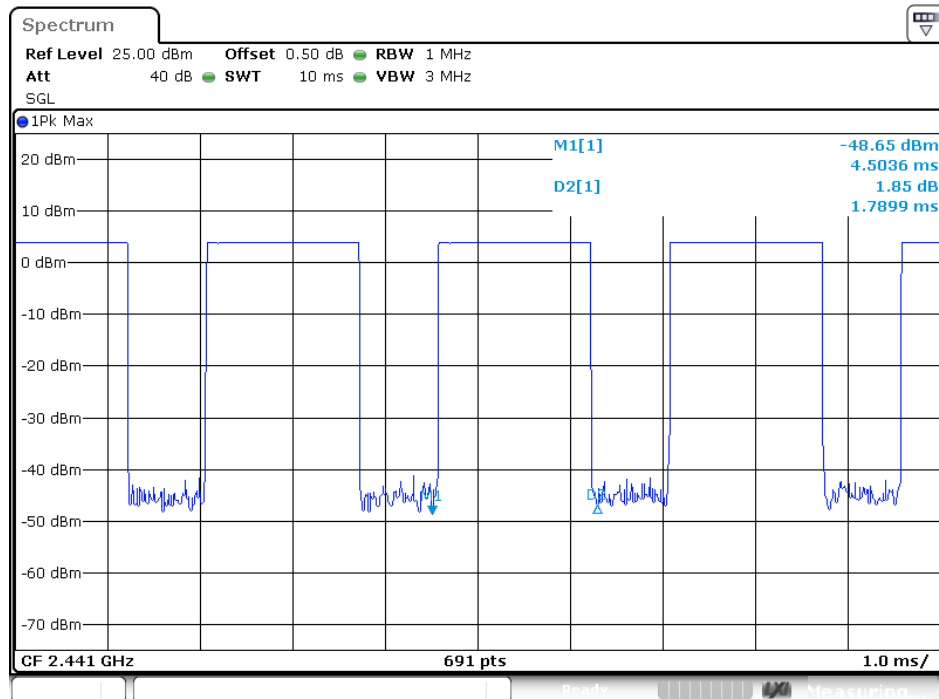
DH1 High channel



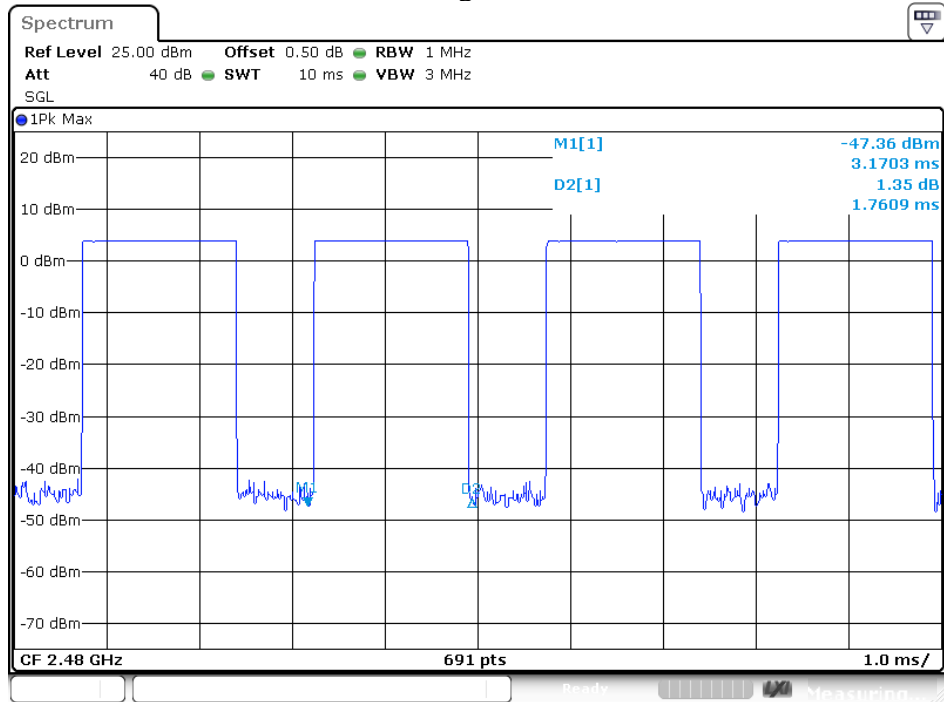
DH3 Low channel



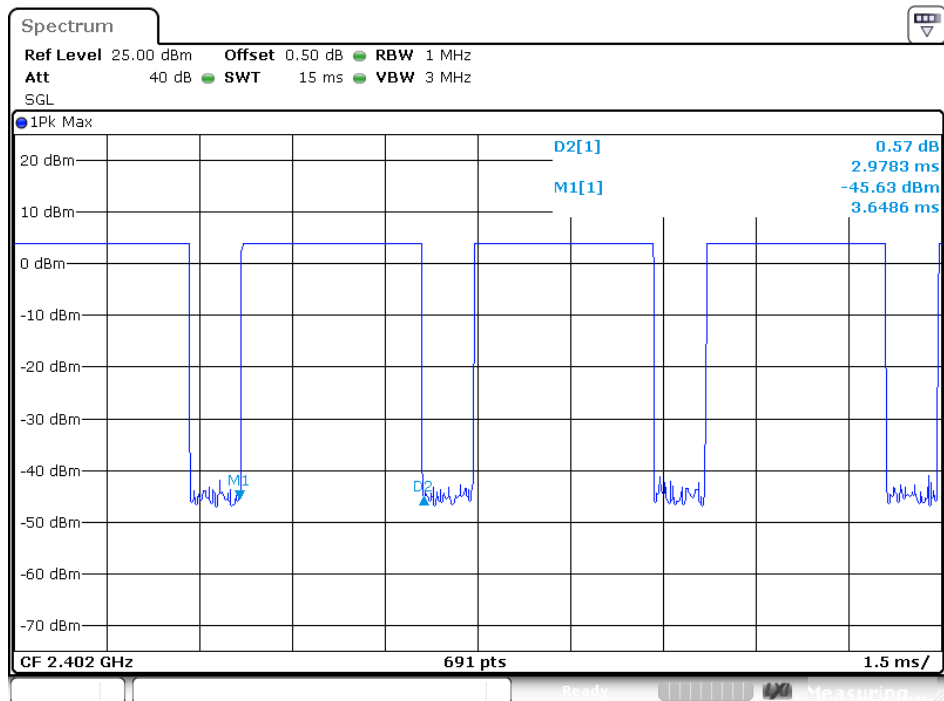
DH3 Middle channel



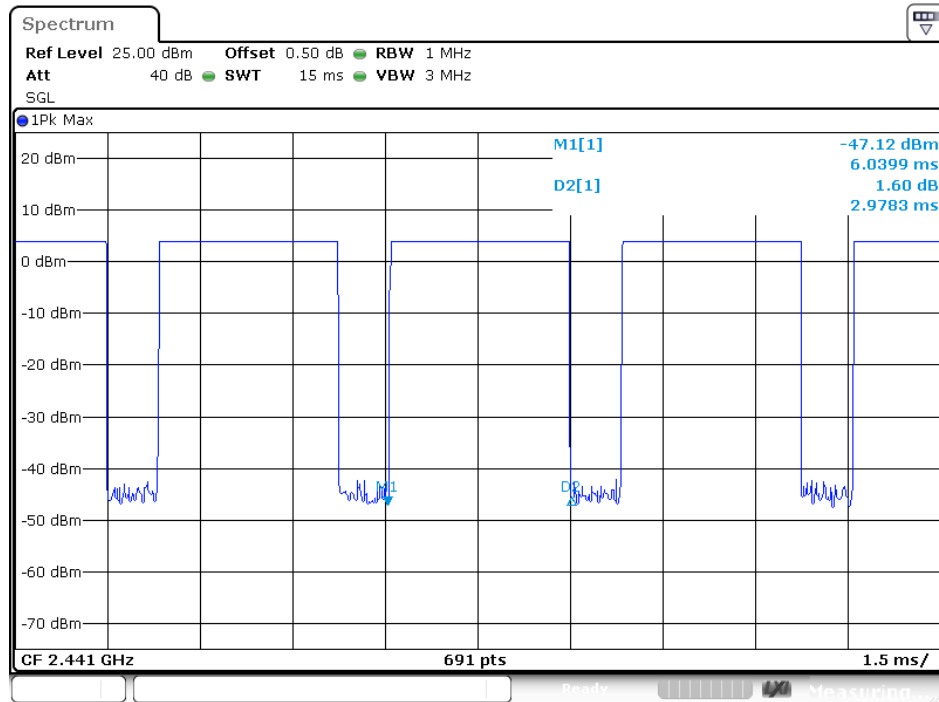
DH3 High channel



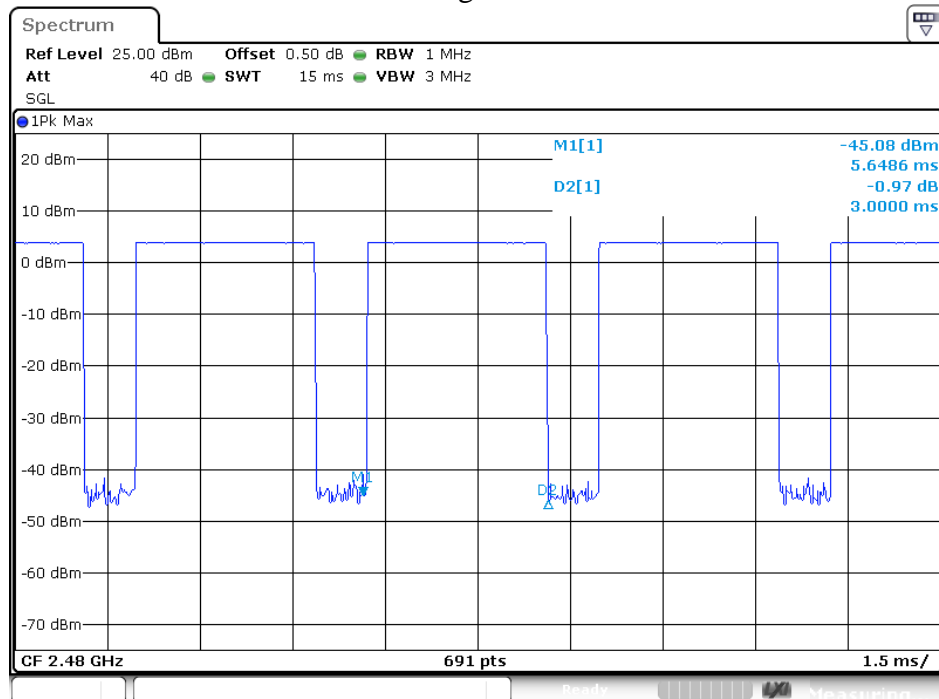
DH5 Low channel



DH5 Middle channel

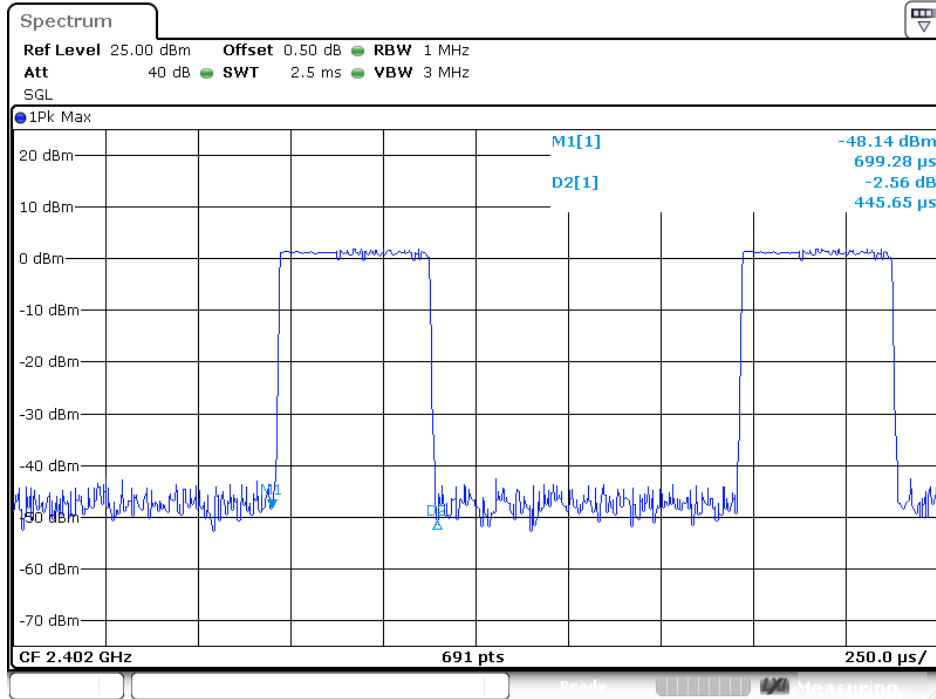


DH5 High channel

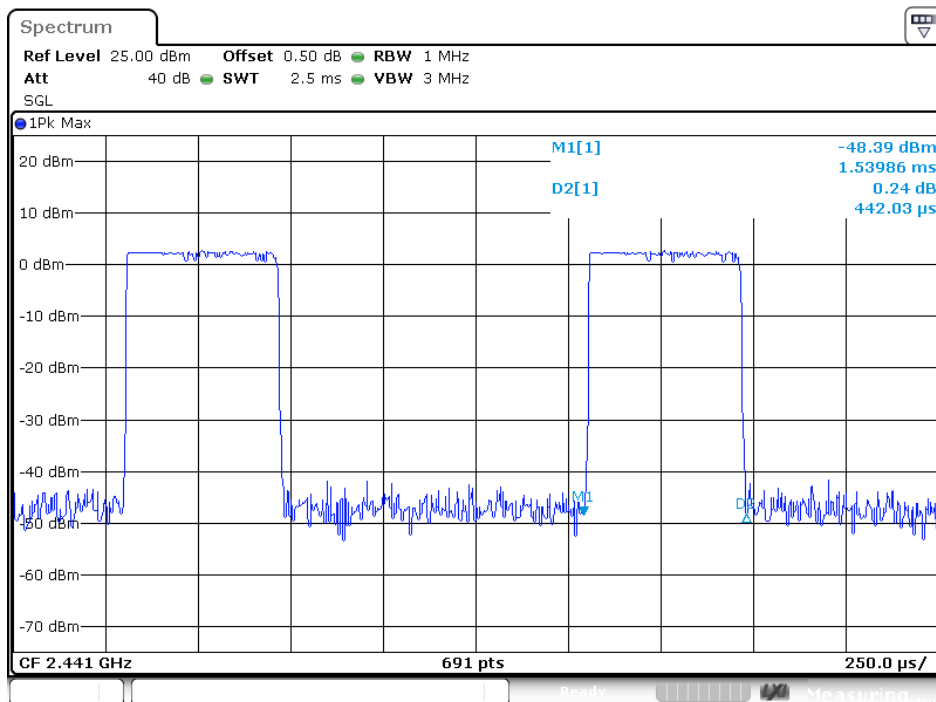


Π/4-DQPSK

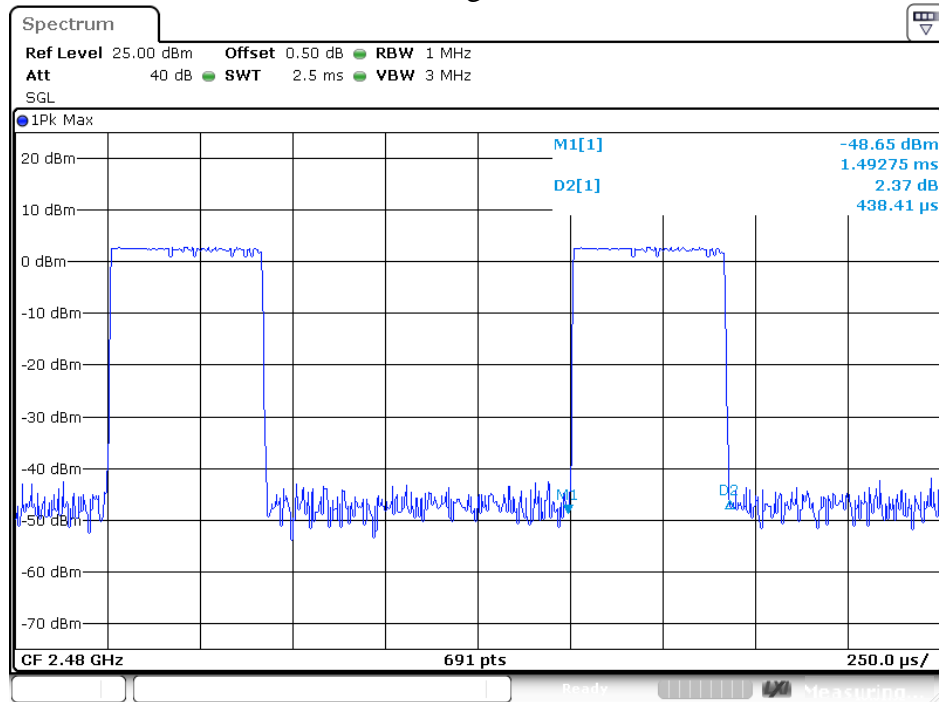
2DH1 Low channel



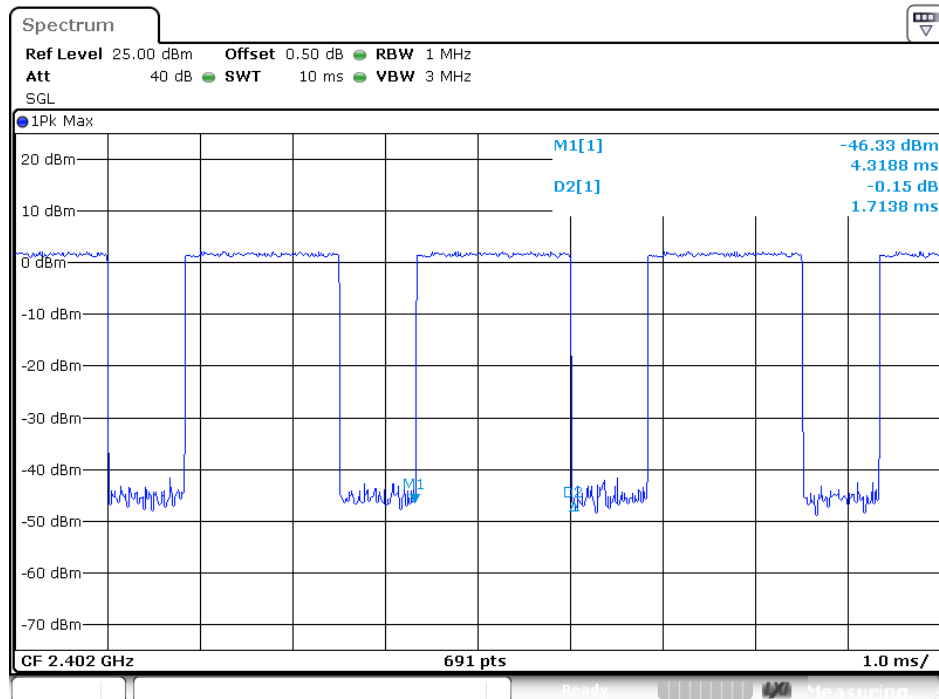
2DH1 Middle channel



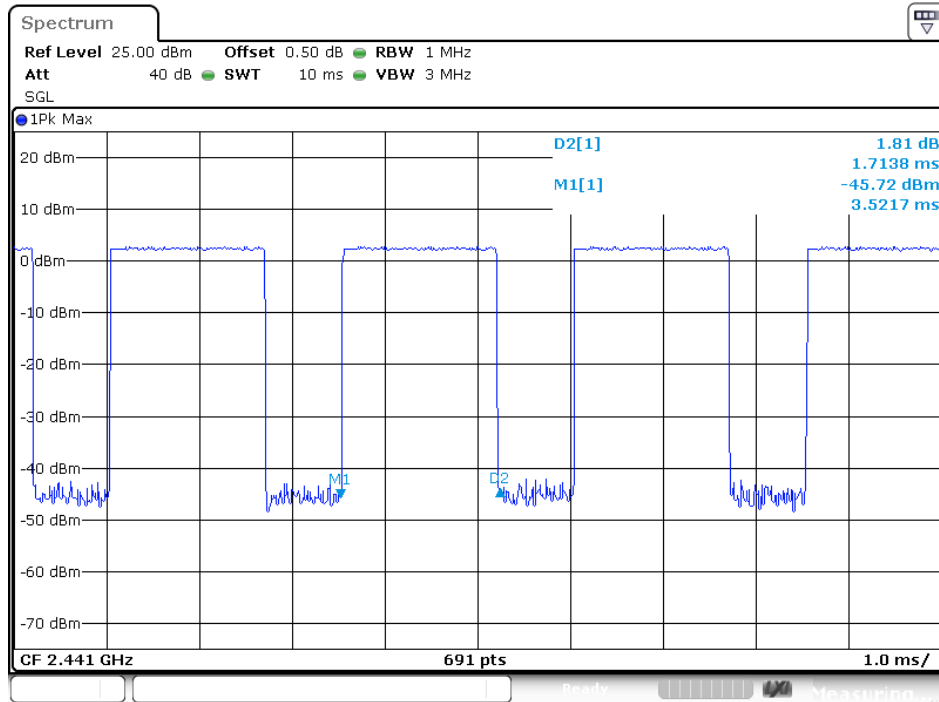
2DH1 High channel



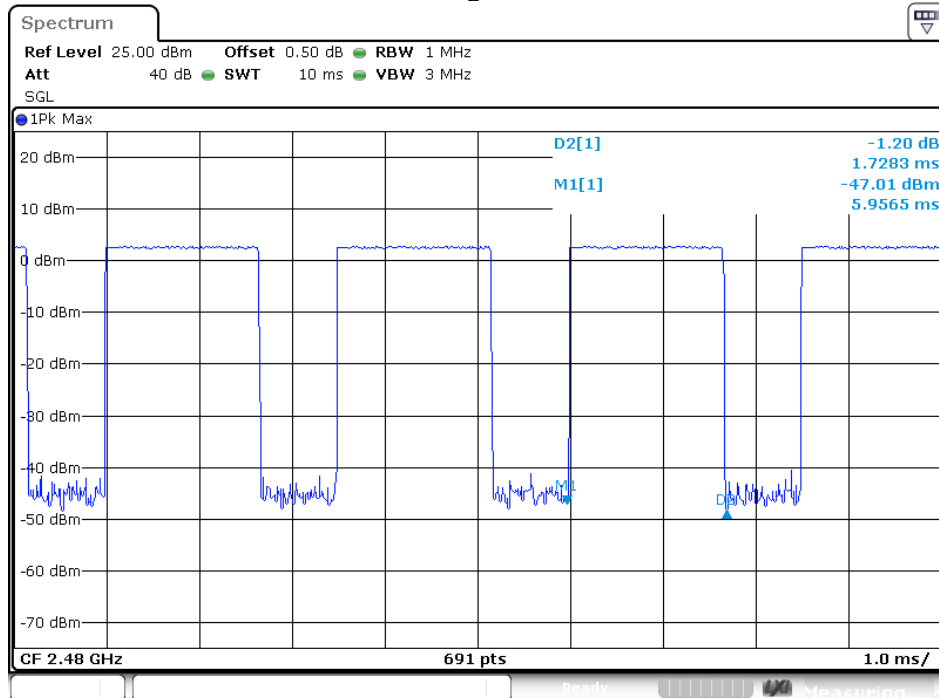
2DH3 Low channel



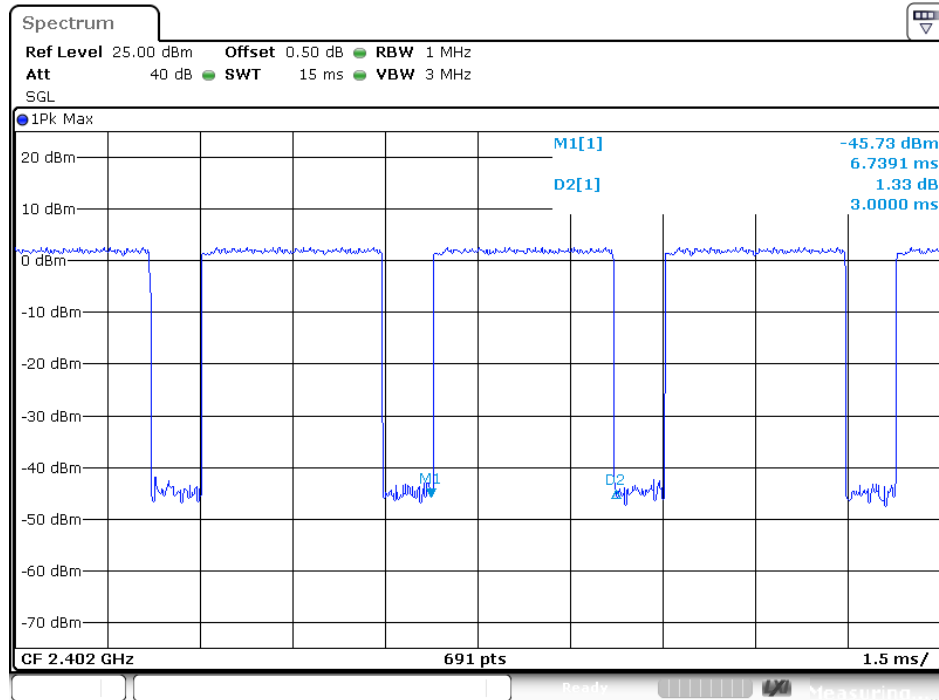
2DH3 Middle channel



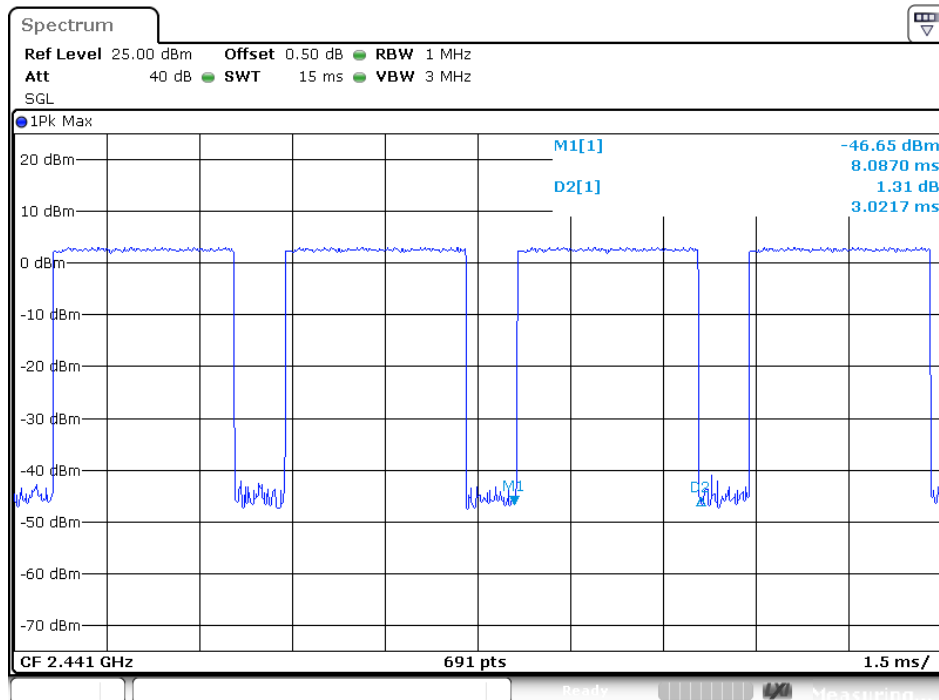
2DH3 High channel



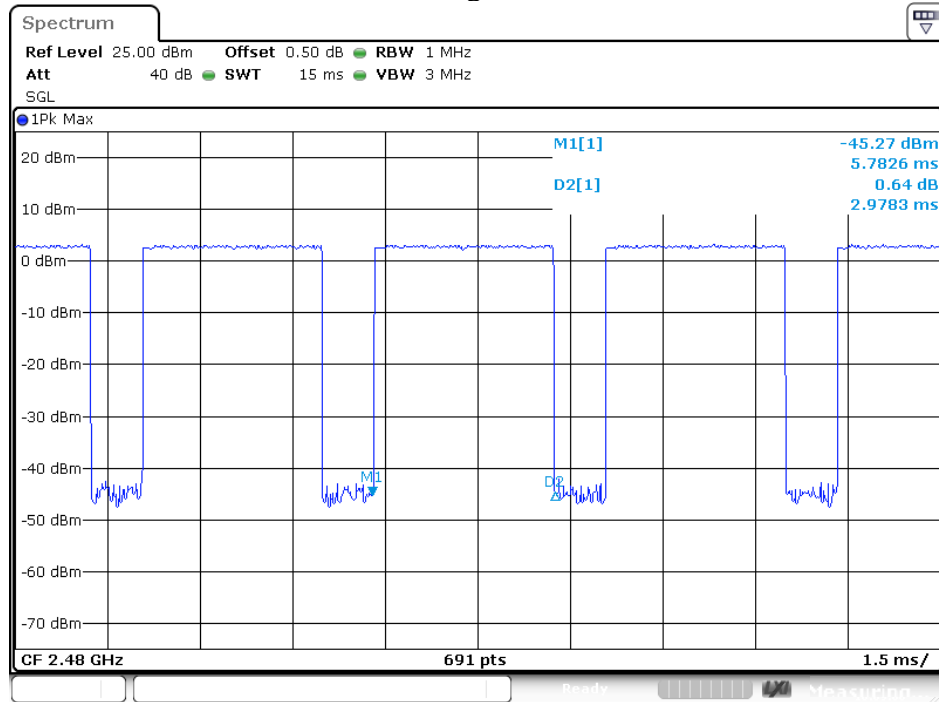
2DH5 Low channel



2DH5 Middle channel

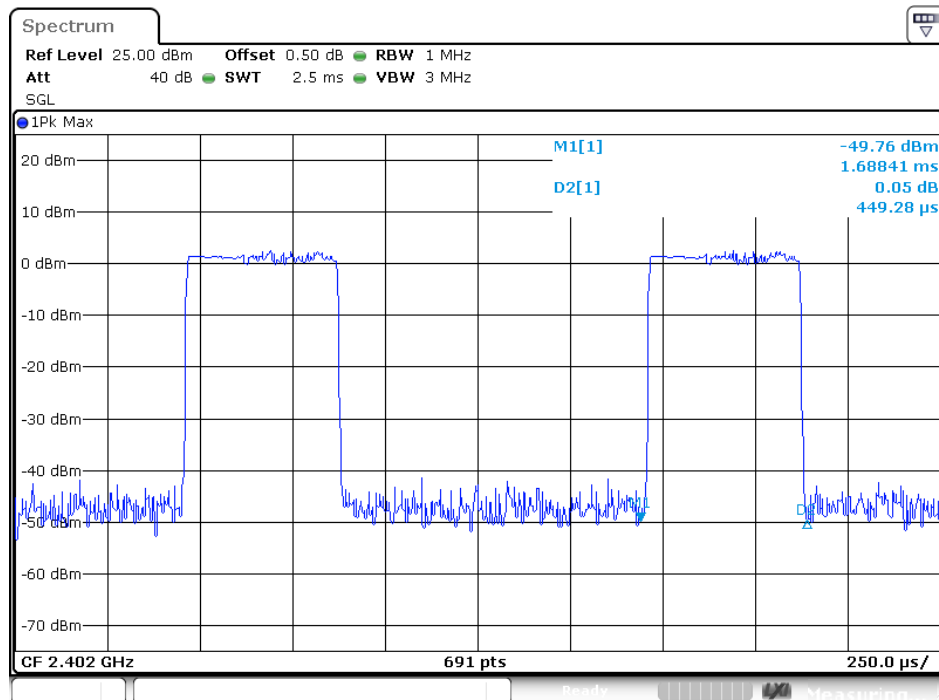


2DH5 High channel

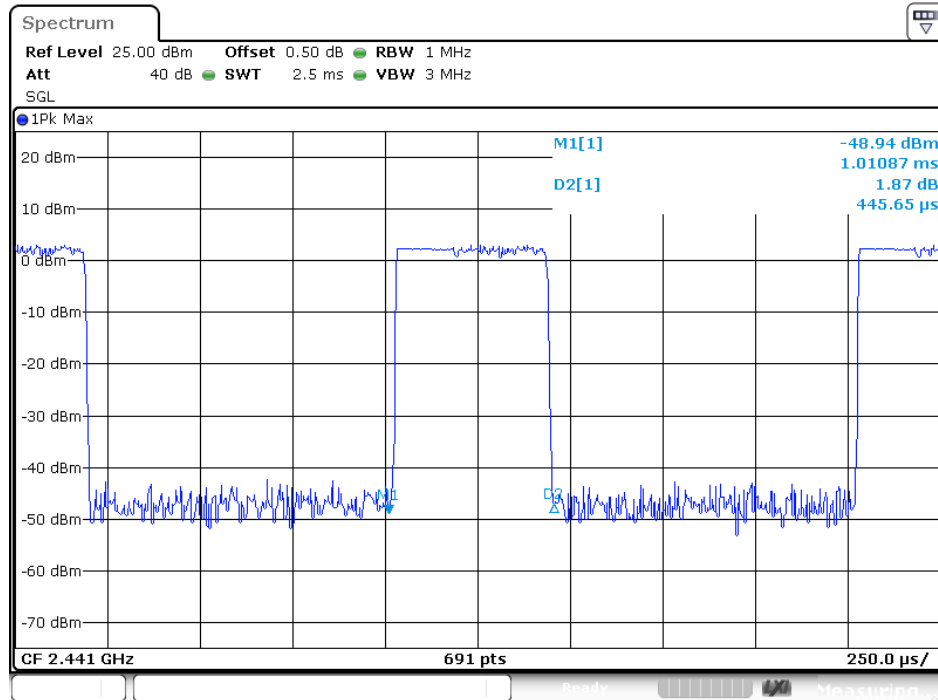


8DPSK Mode

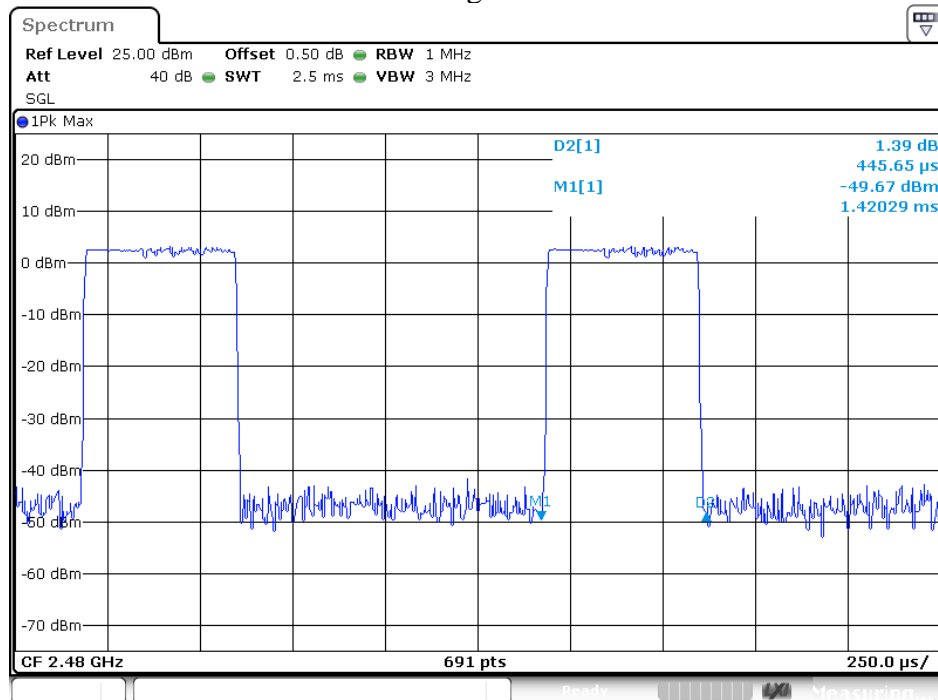
3DH1 Low channel



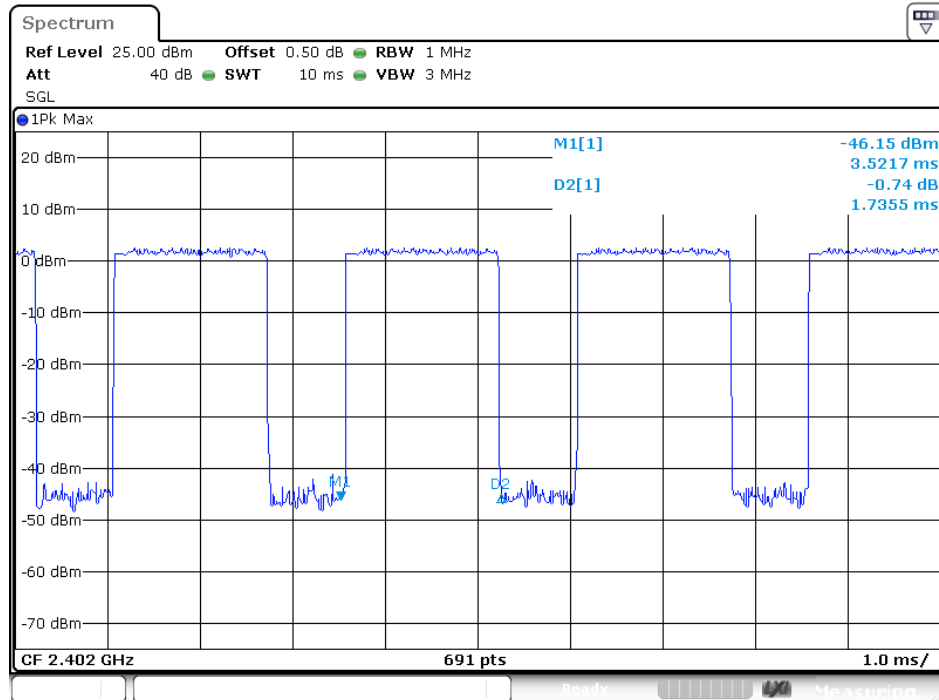
3DH1 Middle channel



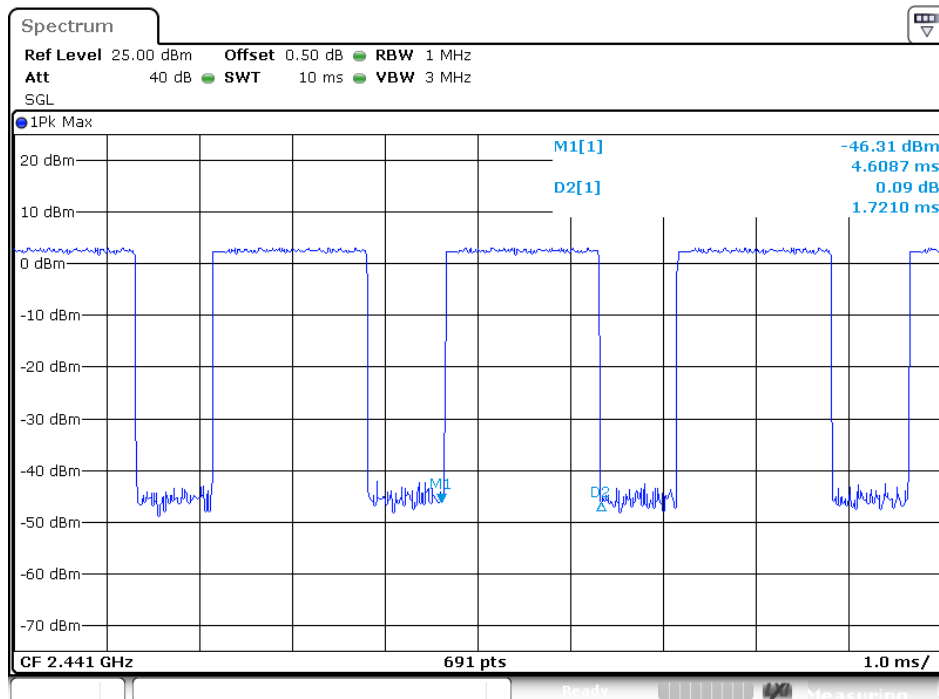
3DH1 High channel



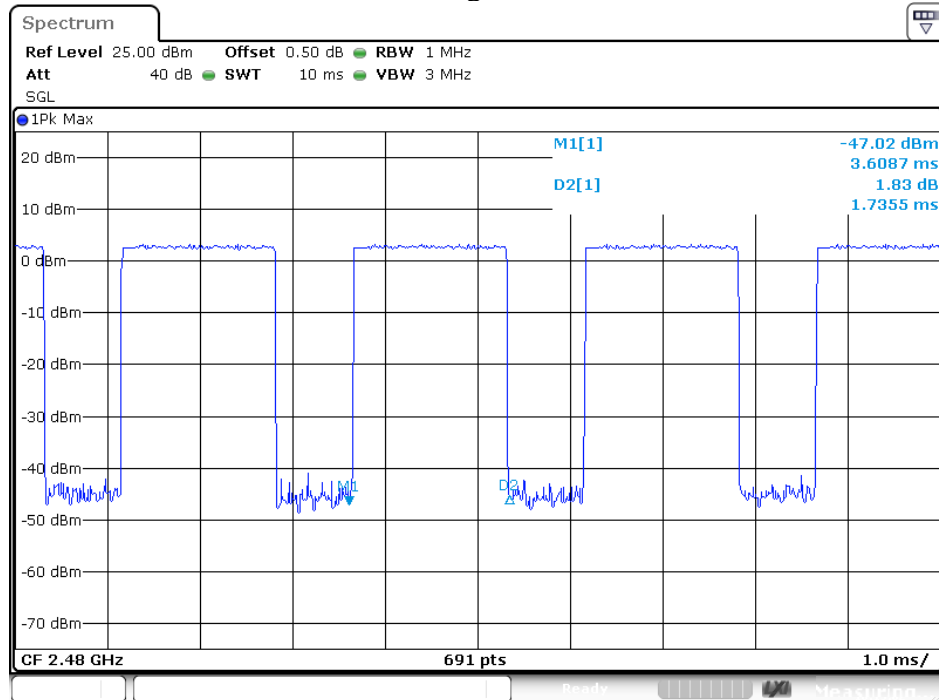
3DH3 Low channel



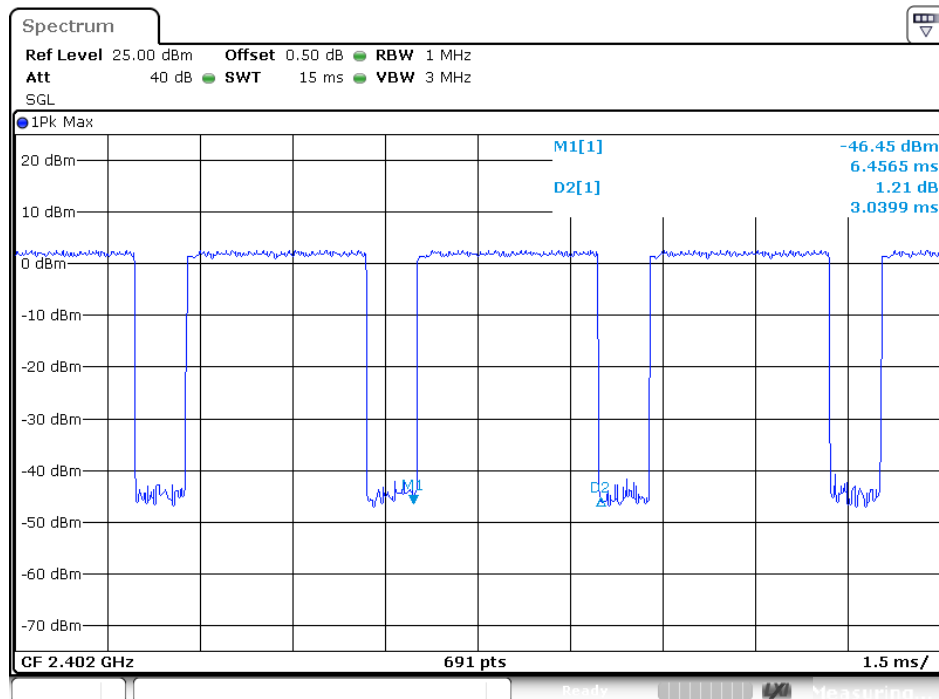
3DH3 Middle channel



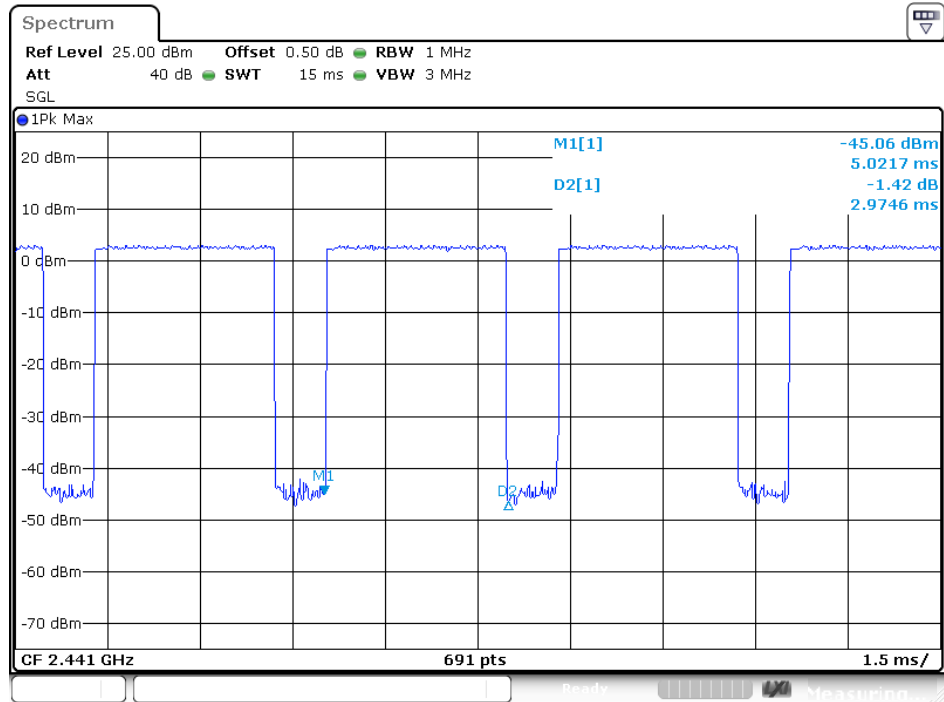
3DH3 High channel



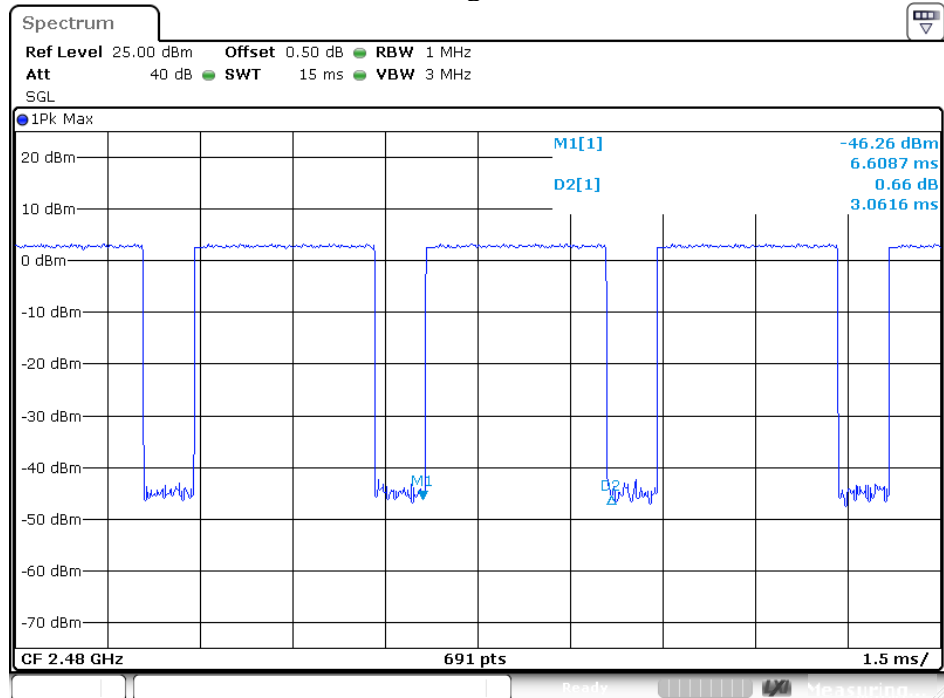
3DH5 Low channel



3DH5 Middle channel

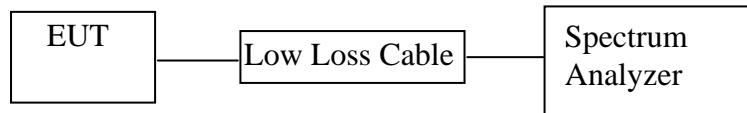


3DH5 High channel



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: Massage Chair)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

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 (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

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

9.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz for GFSK mode

9.5.3. Set RBW of spectrum analyzer to 3MHz and VBW to 10MHz for other mode

9.5.4. Measurement the maximum peak output power.

9.6. Test Result

GFSK Mode

| Channel | Frequency (MHz) | Peak Output Power (dBm/W) | Limits dBm / W |
|---------|-----------------|---------------------------|----------------|
| Low | 2402 | 4.28/0.0027 | 30 / 1.0 |
| Middle | 2441 | 4.24/0.0027 | 30 / 1.0 |
| High | 2480 | 4.10/0.0026 | 30 / 1.0 |

Π/4-DQPSK Mode

| Channel | Frequency (MHz) | Peak Output Power (dBm/W) | Limits dBm / W |
|---------|-----------------|---------------------------|----------------|
| Low | 2402 | 3.36/0.0022 | 21 / 0.125 |
| Middle | 2441 | 3.78/0.0024 | 21 / 0.125 |
| High | 2480 | 4.06/0.0025 | 21 / 0.125 |

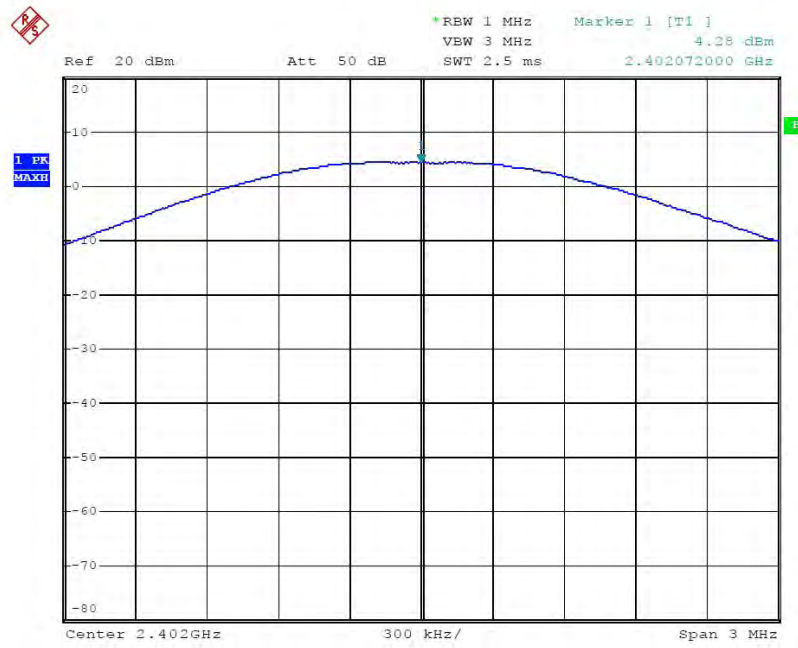
8DPSK Mode

| Channel | Frequency (MHz) | Peak Output Power (dBm/W) | Limits dBm / W |
|---------|-----------------|---------------------------|----------------|
| Low | 2402 | 3.78/0.0024 | 21 / 0.125 |
| Middle | 2441 | 3.94/0.0025 | 21 / 0.125 |
| High | 2480 | 4.15/0.0026 | 21 / 0.125 |

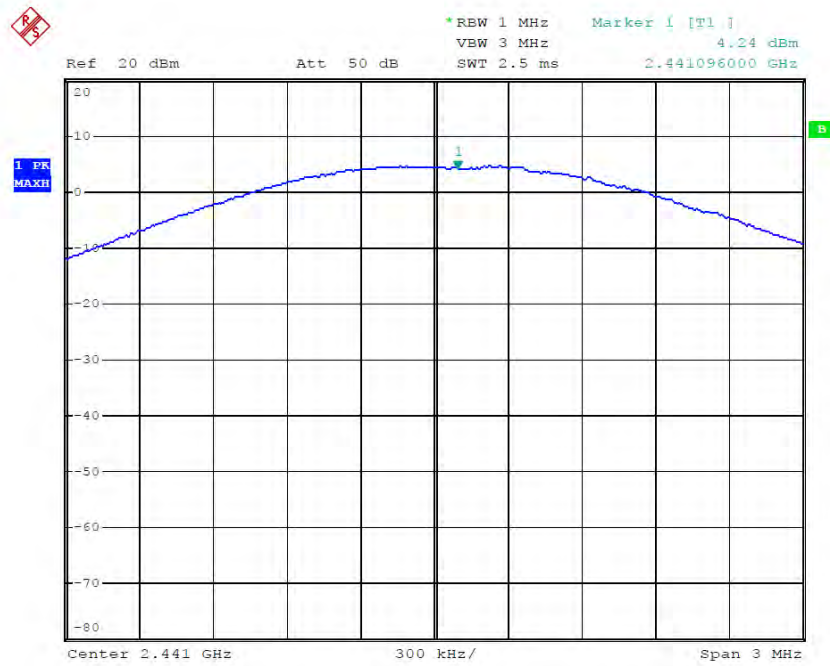
The spectrum analyzer plots are attached as below.

GFSK Mode

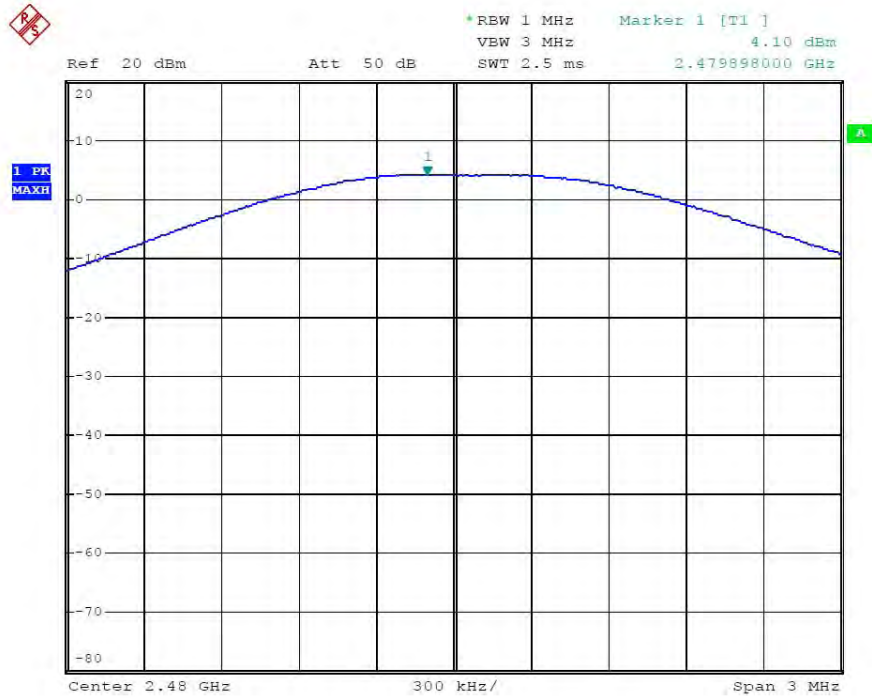
Low channel



Middle channel

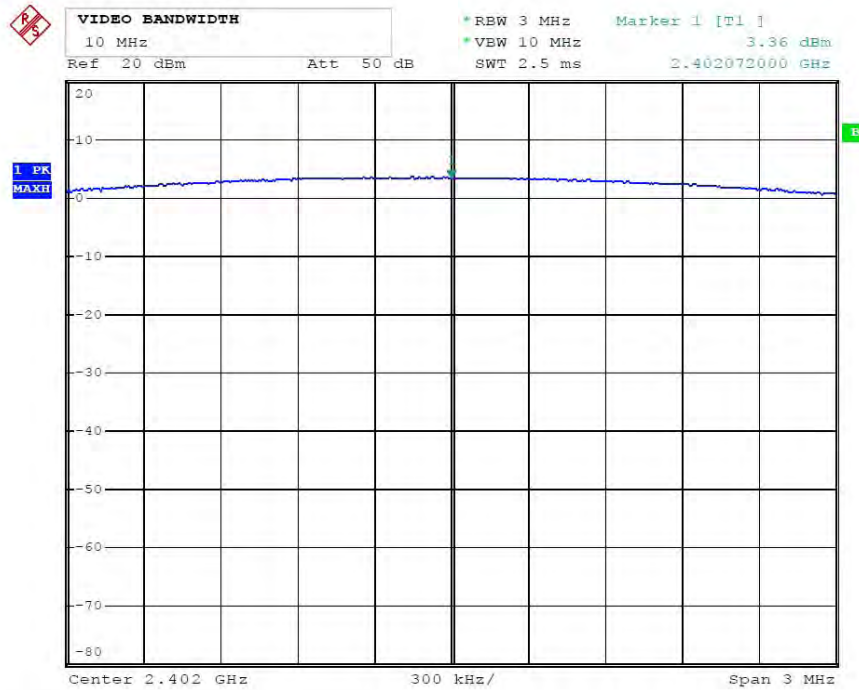


High channel

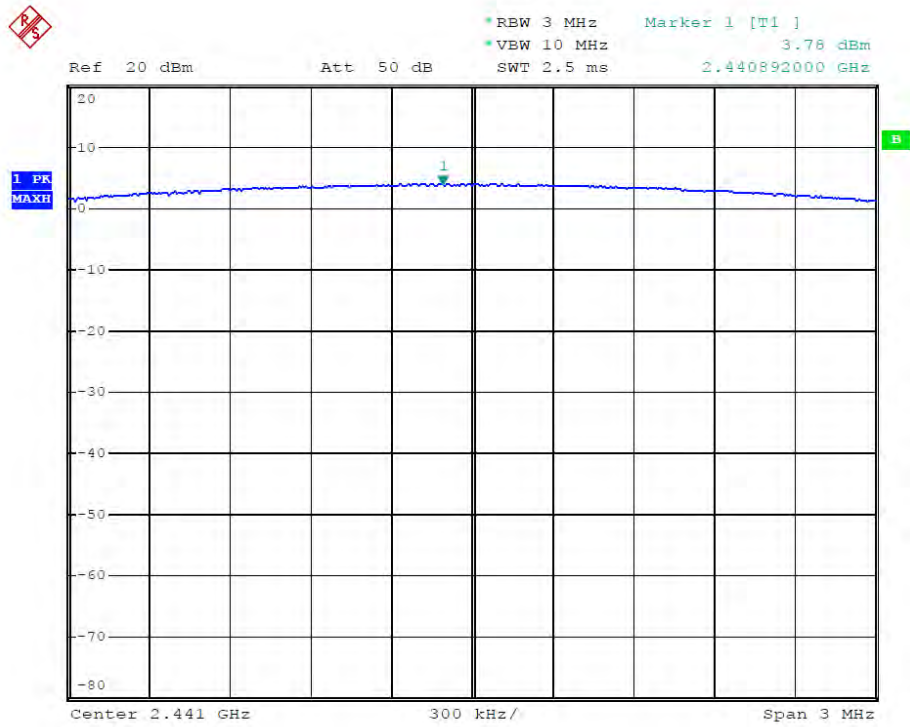


Π/4-DQPSK Mode

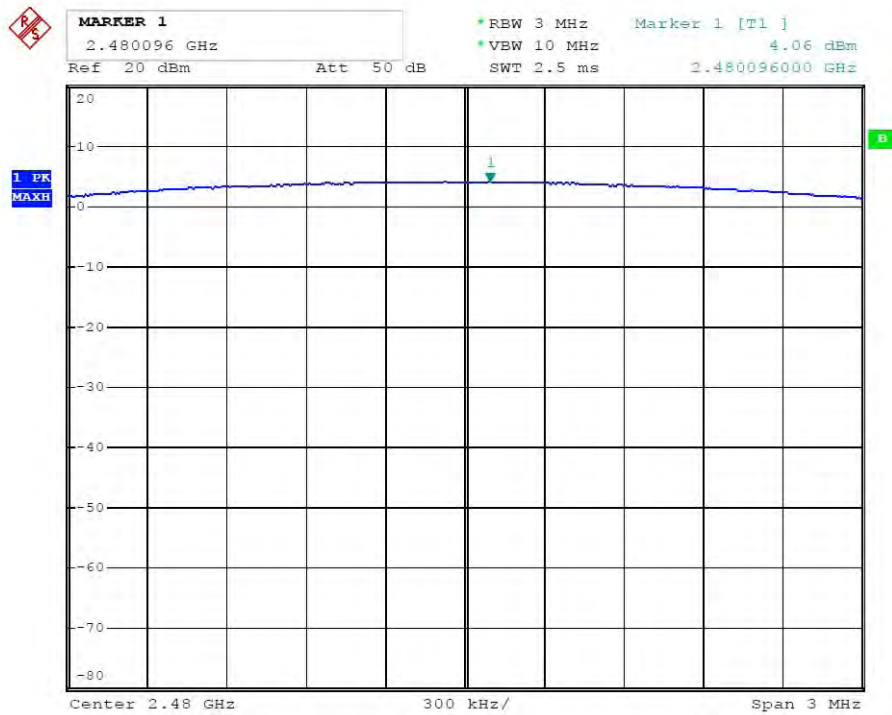
Low channel



Middle channel

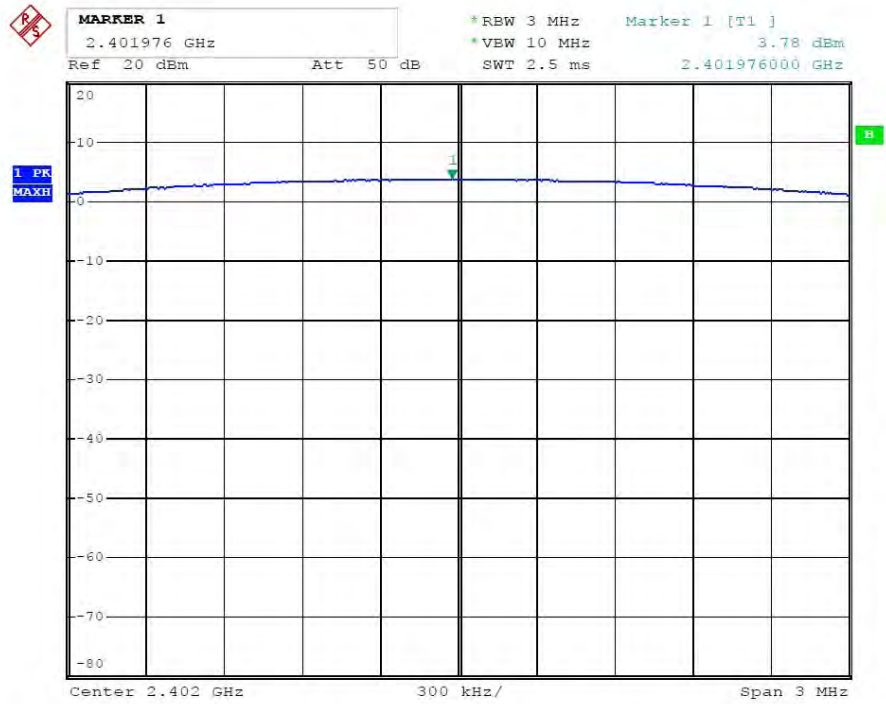


High channel

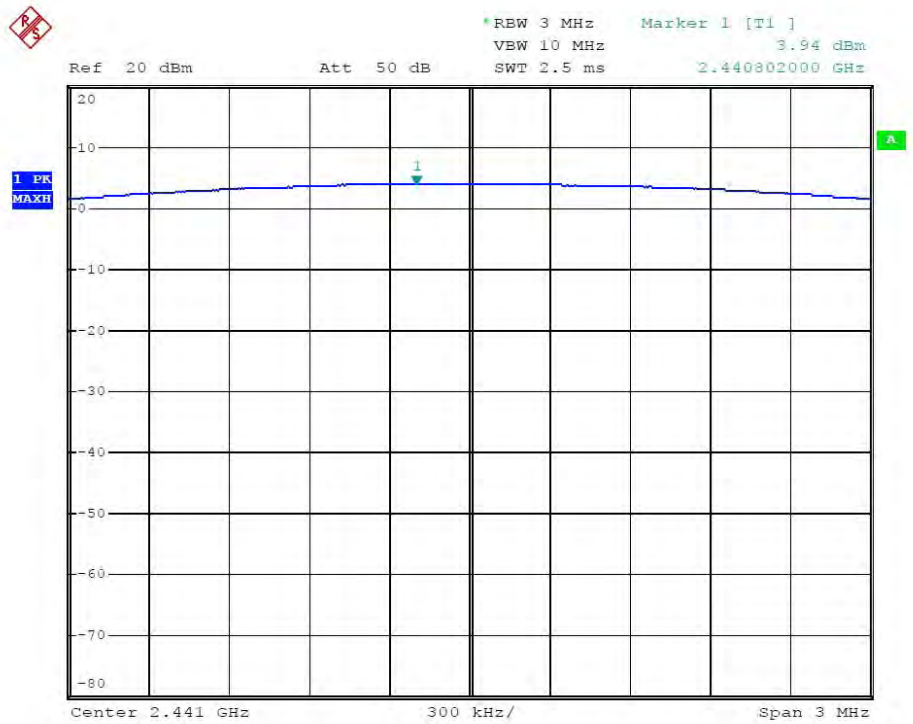


8DPSK Mode

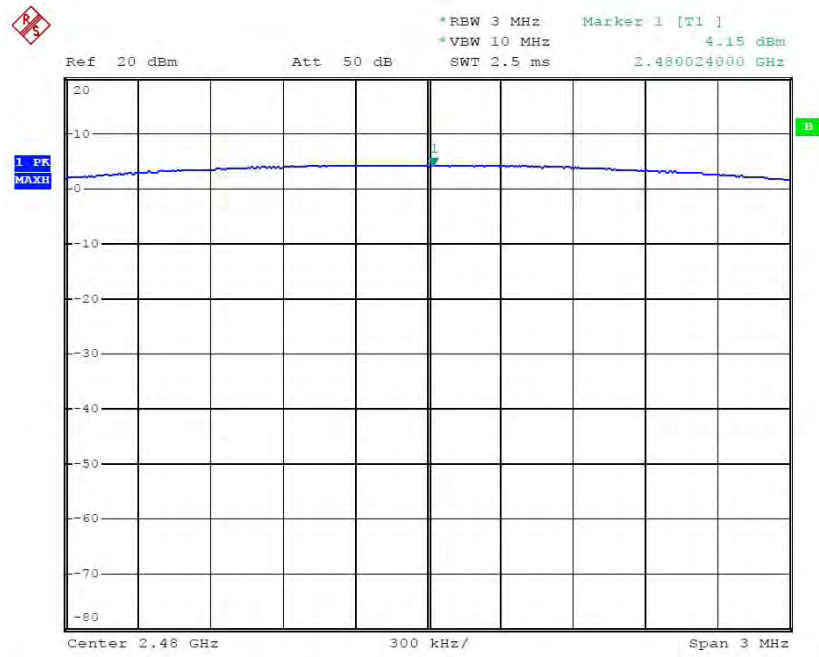
Low channel



Middle channel



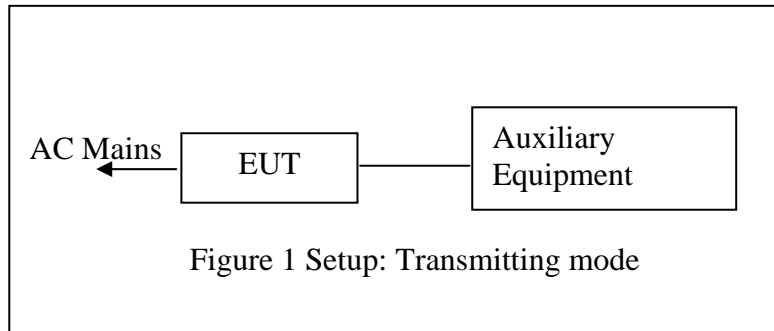
High channel



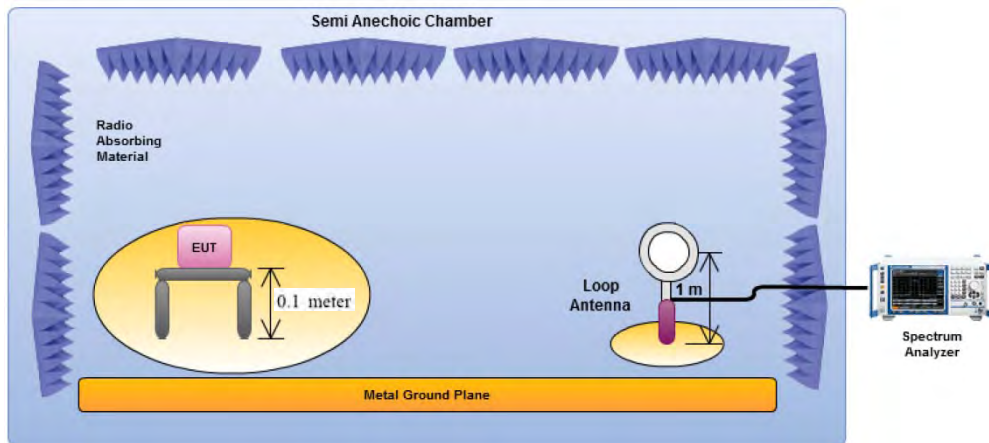
10. RADIATED EMISSION TEST

10.1. Block Diagram of Test Setup

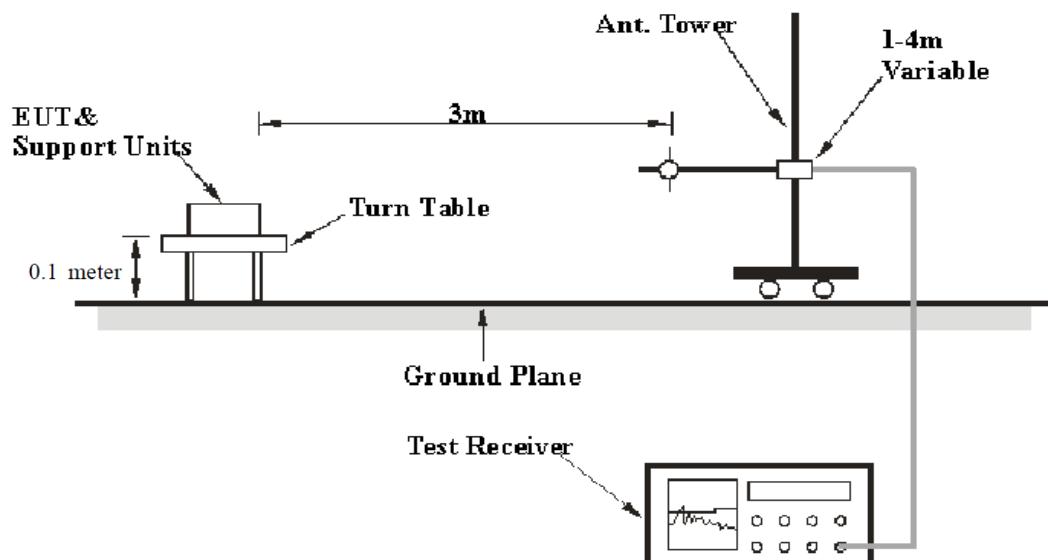
10.1.1. Block diagram of connection between the EUT and peripherals



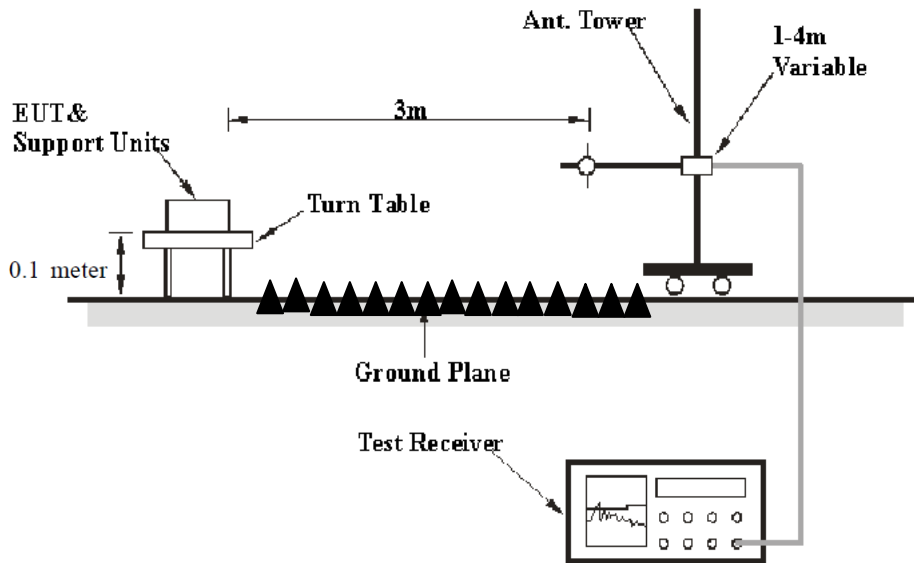
10.1.2. Semi-Anechoic Chamber Test Setup Diagram Below 30MHz



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 is 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. 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 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.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.6.Data Sample

| Frequency(MHz) | Reading (dB μ v) | Factor (dB/m) | Result (dB μ v/m) | Limit (dB μ v/m) | Margin (dB) | Remark |
|----------------|----------------------|---------------|-----------------------|----------------------|-------------|--------|
| xx.xxxx | 29.46 | -12.53 | 16.93 | 40.00 | -23.07 | 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.

10.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Note:

1. We tested GFSK mode, $\Pi/4$ -DQPSK Mode & 8DPSK mode and recorded the worst case data (GFSK mode) for all test mode.
2. Emissions attenuated more than 20 dB below the permissible value are not reported.
3. *: Denotes restricted band of operation.
4. The radiation emissions from 9kHz-30MHz and 18-26.5GHz are not reported, because the test values lower than the limits of 20dB.

Adapter 1 test data: Below 1GHz



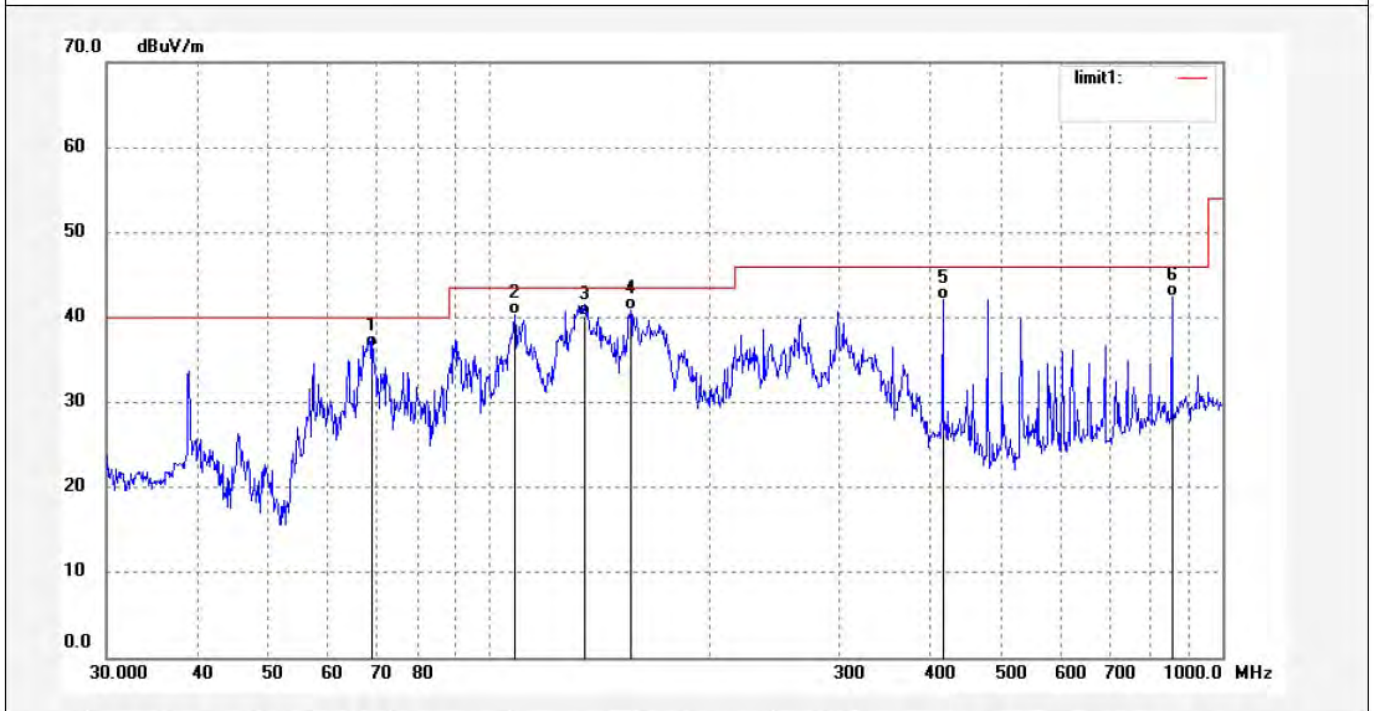
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #352 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2018-5-31 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14:50:39 |
| EUT: Massage Chair | Engineer Signature: frank |
| Mode: TX2402MHz | Distance: |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 69.2296 | 59.26 | -22.82 | 36.44 | 40.00 | -3.56 | QP | 100 | 141 | |
| 2 | 108.1645 | 61.73 | -21.36 | 40.37 | 43.50 | -3.13 | QP | 100 | 232 | |
| 3 | 134.9643 | 62.15 | -21.92 | 40.23 | 43.50 | -3.27 | QP | 100 | 46 | |
| 4 | 155.8771 | 62.73 | -21.79 | 40.94 | 43.50 | -2.56 | QP | 100 | 310 | |
| 5 | 415.4485 | 55.78 | -13.74 | 42.04 | 46.00 | -3.96 | QP | 100 | 64 | |
| 6 | 853.7545 | 47.42 | -5.01 | 42.41 | 46.00 | -3.59 | QP | 100 | 100 | |



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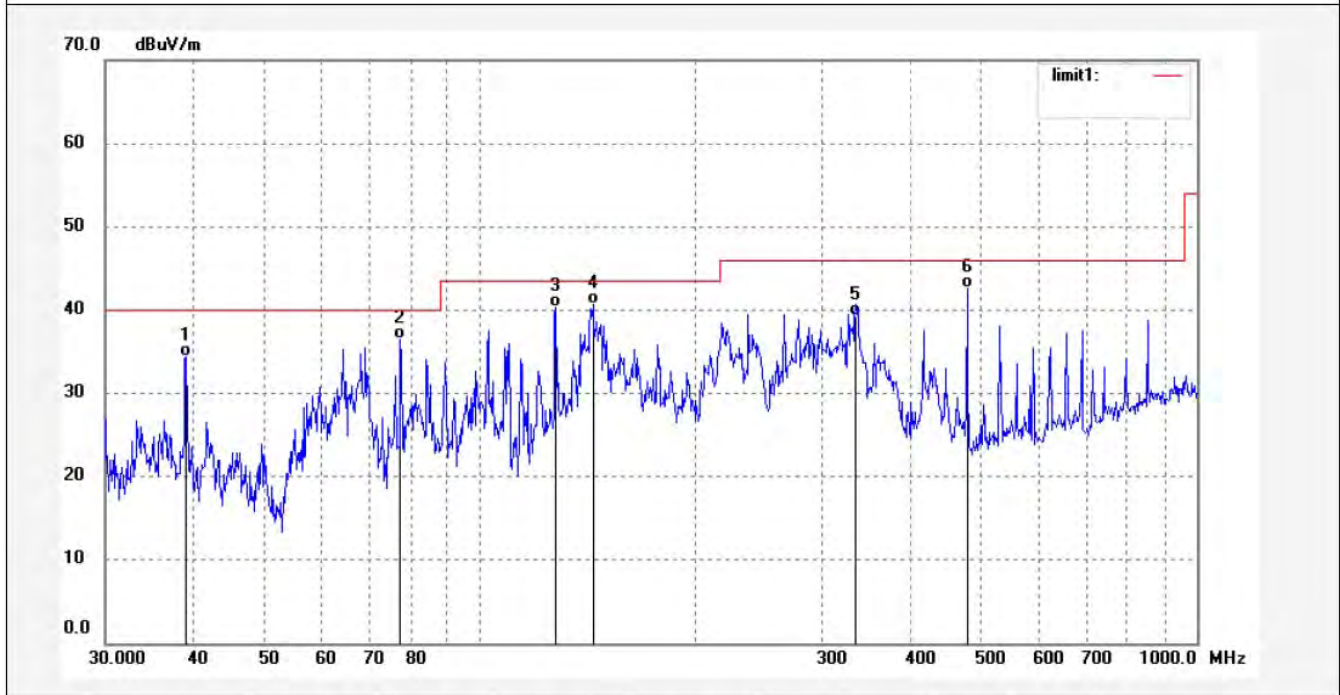
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #353 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2018-5-31 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14:57:22 |
| EUT: Massage Chair | Engineer Signature: frank |
| Mode: TX2402MHz | Distance: |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 38.9080 | 53.22 | -18.75 | 34.47 | 40.00 | -5.53 | QP | 100 | 159 | |
| 2 | 77.4680 | 59.48 | -23.00 | 36.48 | 40.00 | -3.52 | QP | 100 | 115 | |
| 3 | 127.5865 | 61.90 | -21.64 | 40.26 | 43.50 | -3.24 | QP | 100 | 110 | |
| 4 | 143.7760 | 62.87 | -22.20 | 40.67 | 43.50 | -2.83 | QP | 100 | 121 | |
| 5 | 334.1254 | 54.45 | -15.16 | 39.29 | 46.00 | -6.71 | QP | 100 | 120 | |
| 6 | 478.1394 | 55.12 | -12.49 | 42.63 | 46.00 | -3.37 | QP | 100 | 123 | |

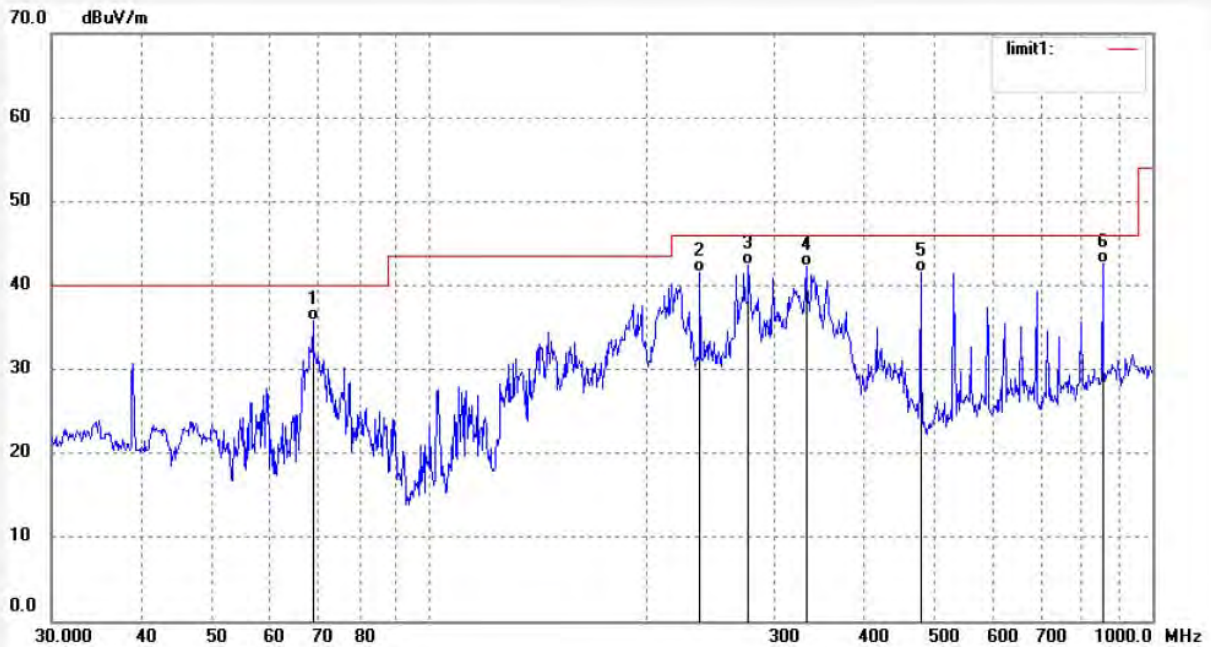


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Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #354 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2018-5-31 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14:59:11 |
| EUT: Massage Chair | Engineer Signature: frank |
| Mode: TX2441MHz | Distance: |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 68.9869 | 58.59 | -22.81 | 35.78 | 40.00 | -4.22 | QP | 100 | 103 | |
| 2 | 236.7925 | 59.90 | -18.27 | 41.63 | 46.00 | -4.37 | QP | 100 | 210 | |
| 3 | 276.3817 | 59.32 | -16.91 | 42.41 | 46.00 | -3.59 | QP | 100 | 43 | |
| 4 | 331.7857 | 57.53 | -15.29 | 42.24 | 46.00 | -3.76 | QP | 100 | 108 | |
| 5 | 478.1394 | 54.01 | -12.49 | 41.52 | 46.00 | -4.48 | QP | 100 | 49 | |
| 6 | 853.7545 | 47.64 | -5.01 | 42.63 | 46.00 | -3.37 | QP | 100 | 61 | |

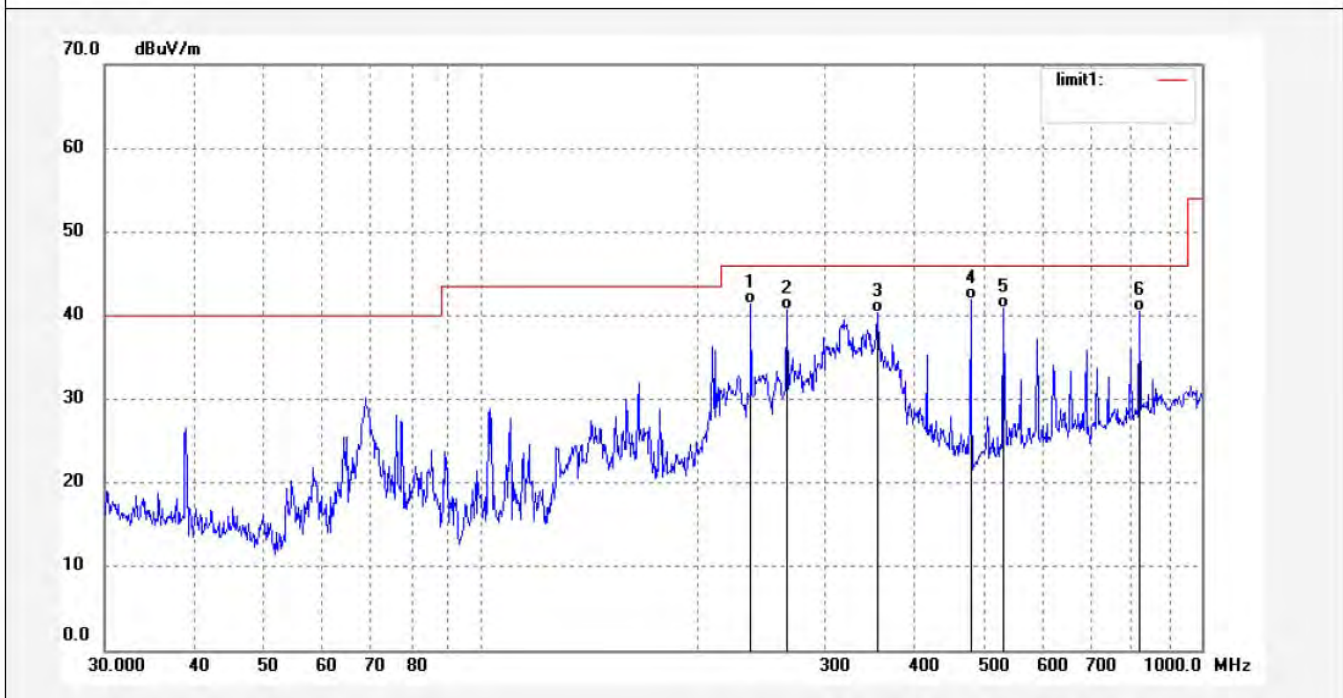


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| | |
|--|----------------------------|
| Job No.: frank test #355 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2018-5-31 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 15:03:59 |
| EUT: Massage Chair | Engineer Signature: frank |
| Mode: TX2441MHz | Distance: |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 236.7924 | 59.61 | -18.27 | 41.34 | 46.00 | -4.66 | QP | 200 | 113 | |
| 2 | 265.9035 | 57.87 | -17.25 | 40.62 | 46.00 | -5.38 | QP | 200 | 140 | |
| 3 | 354.6911 | 54.82 | -14.47 | 40.35 | 46.00 | -5.65 | QP | 200 | 45 | |
| 4 | 478.1394 | 54.36 | -12.49 | 41.87 | 46.00 | -4.13 | QP | 200 | 198 | |
| 5 | 531.2910 | 52.36 | -11.53 | 40.83 | 46.00 | -5.17 | QP | 200 | 120 | |
| 6 | 818.5062 | 46.11 | -5.58 | 40.53 | 46.00 | -5.47 | QP | 200 | 130 | |



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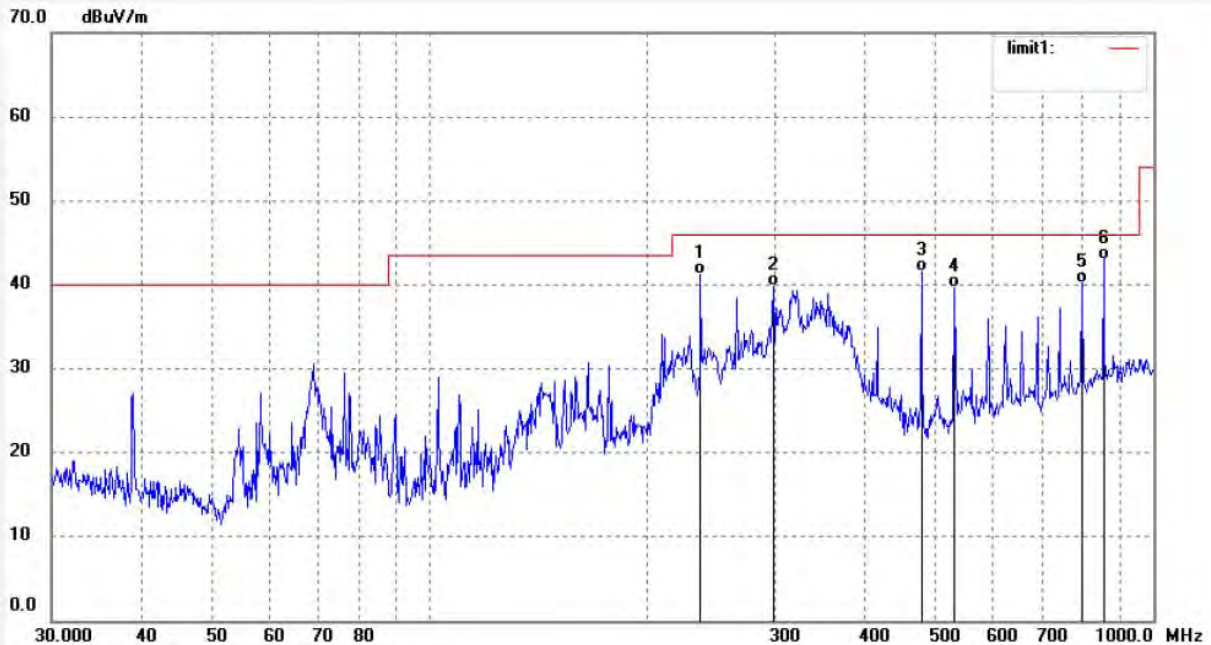
Fax:+86-0755-26503396

Job No.: frank test #356
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX2480MHz
Model: EC-628M

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2018-5-31
Time: 15:10:54
Engineer Signature: frank
Distance:

Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 236.7928 | 59.42 | -18.27 | 41.15 | 46.00 | -4.85 | QP | 200 | 320 | |
| 2 | 298.5932 | 56.07 | -16.30 | 39.77 | 46.00 | -6.23 | QP | 200 | 40 | |
| 3 | 478.1394 | 54.12 | -12.49 | 41.63 | 46.00 | -4.37 | QP | 200 | 106 | |
| 4 | 531.2910 | 51.12 | -11.53 | 39.59 | 46.00 | -6.41 | QP | 200 | 51 | |
| 5 | 795.8192 | 46.03 | -5.95 | 40.08 | 46.00 | -5.92 | QP | 200 | 266 | |
| 6 | 853.7547 | 48.00 | -5.01 | 42.99 | 46.00 | -3.01 | QP | 200 | 164 | |



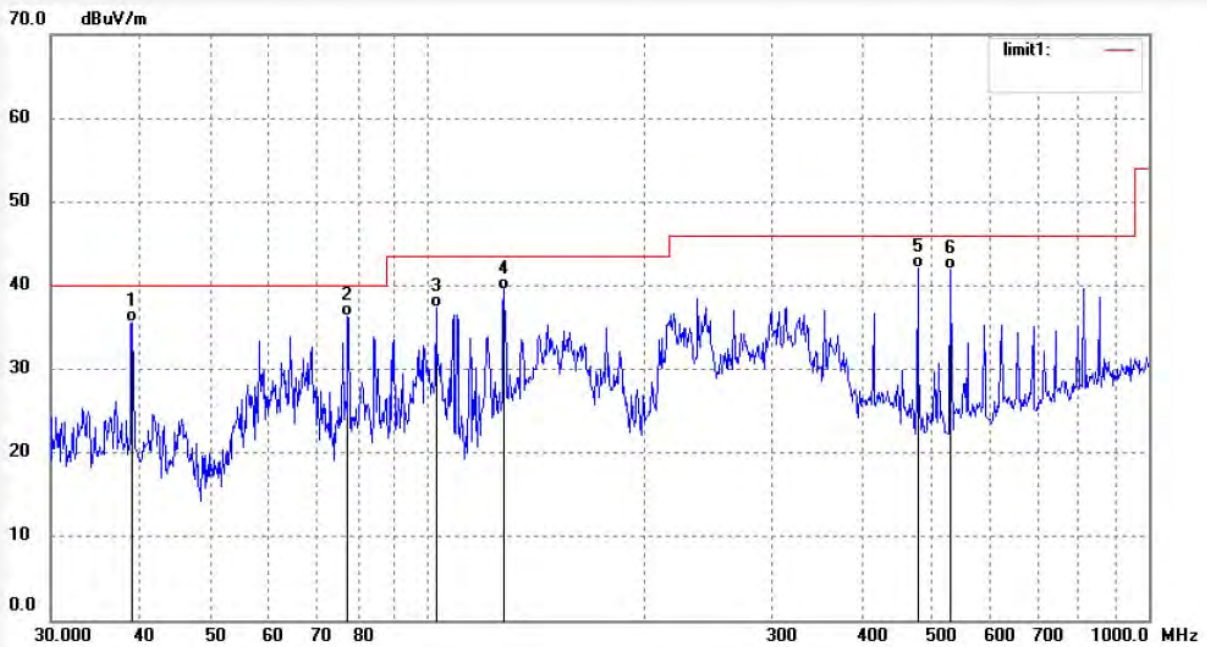
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| | |
|--|----------------------------|
| Job No.: frank test #357 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2018-5-31 |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 15:13:51 |
| EUT: Massage Chair | Engineer Signature: frank |
| Mode: TX2480MHz | Distance: |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 38.9080 | 54.31 | -18.75 | 35.56 | 40.00 | -4.44 | QP | 100 | 156 | |
| 2 | 77.4680 | 59.23 | -23.00 | 36.23 | 40.00 | -3.77 | QP | 100 | 49 | |
| 3 | 102.6115 | 59.16 | -21.80 | 37.36 | 43.50 | -6.14 | QP | 100 | 155 | |
| 4 | 127.5865 | 61.19 | -21.64 | 39.55 | 43.50 | -3.95 | QP | 100 | 40 | |
| 5 | 478.1394 | 54.63 | -12.49 | 42.14 | 46.00 | -3.86 | QP | 100 | 125 | |
| 6 | 531.2910 | 53.44 | -11.53 | 41.91 | 46.00 | -4.09 | QP | 100 | 135 | |

Above 1GHz



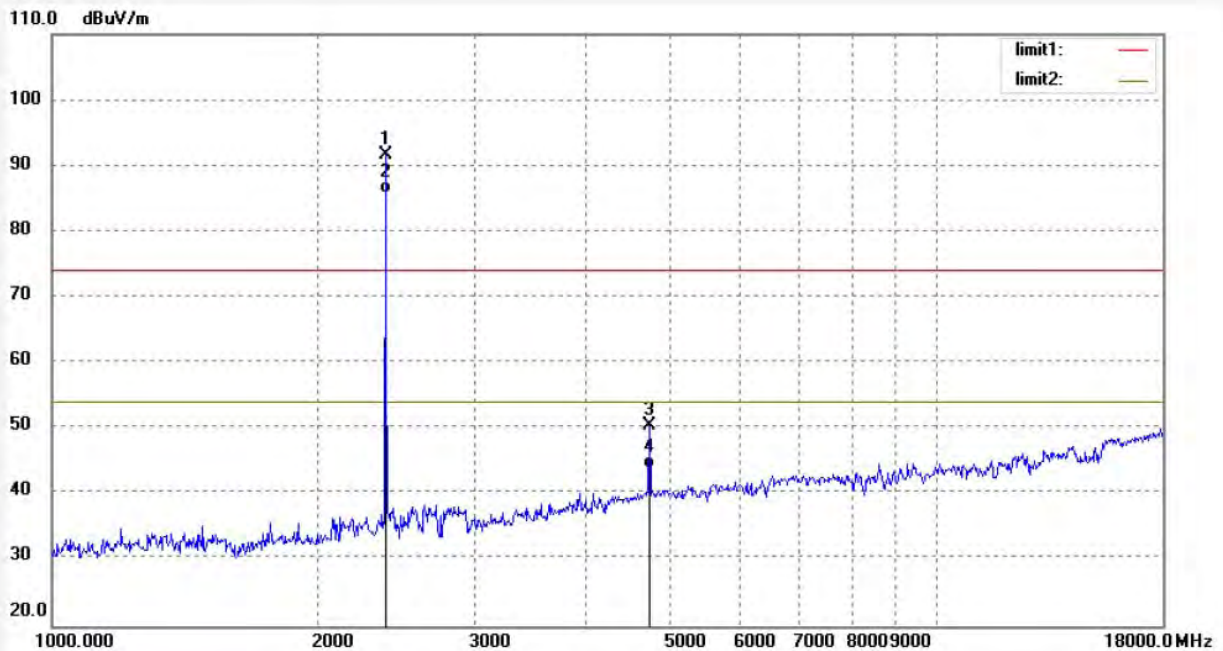
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #360 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14/01/12 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 95.93 | -4.37 | 91.56 | | | peak | 200 | 138 | |
| 2 | 2402.000 | 90.12 | -4.37 | 85.75 | | | AVG | 200 | 152 | |
| 3 | 4804.000 | 47.78 | 2.70 | 50.48 | 74.00 | -23.52 | peak | 200 | 214 | |
| 4 | 4804.000 | 41.15 | 2.70 | 43.85 | 54.00 | -10.15 | AVG | 200 | 103 | |



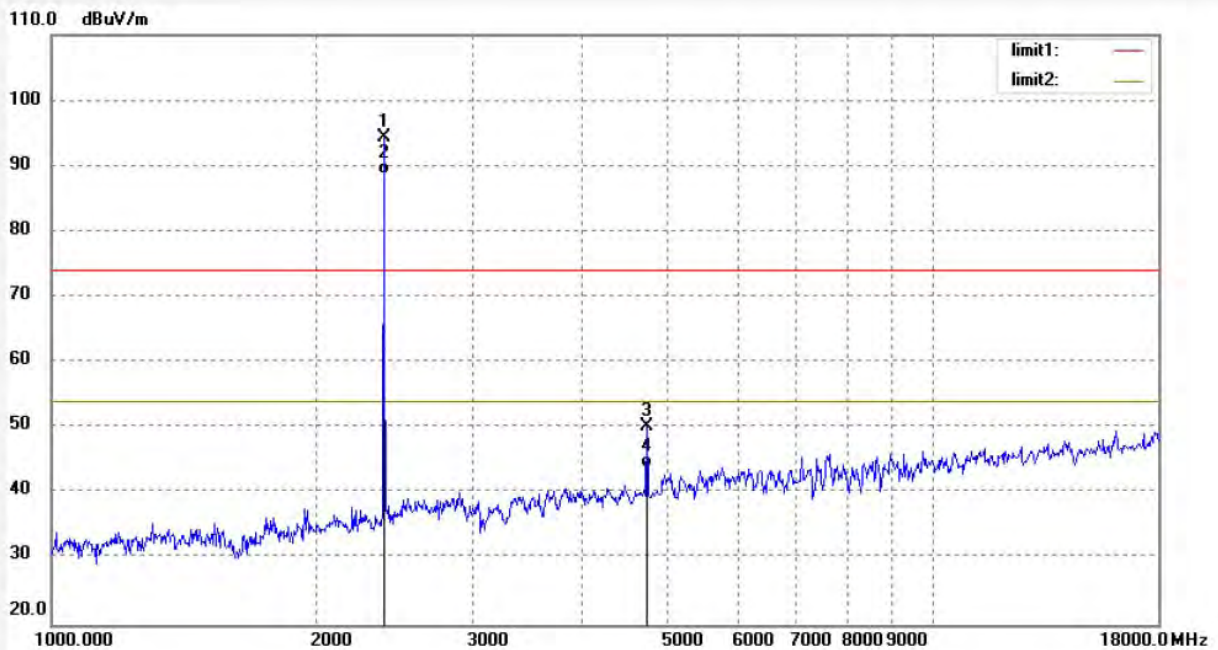
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #361 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14/07/12 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 98.77 | -4.37 | 94.40 | | | peak | 250 | 122 | |
| 2 | 2402.000 | 93.13 | -4.37 | 88.76 | | | AVG | 250 | 211 | |
| 3 | 4804.000 | 47.55 | 2.70 | 50.25 | 74.00 | -23.75 | peak | 250 | 81 | |
| 4 | 4804.000 | 41.15 | 2.70 | 43.85 | 54.00 | -10.15 | AVG | 250 | 247 | |



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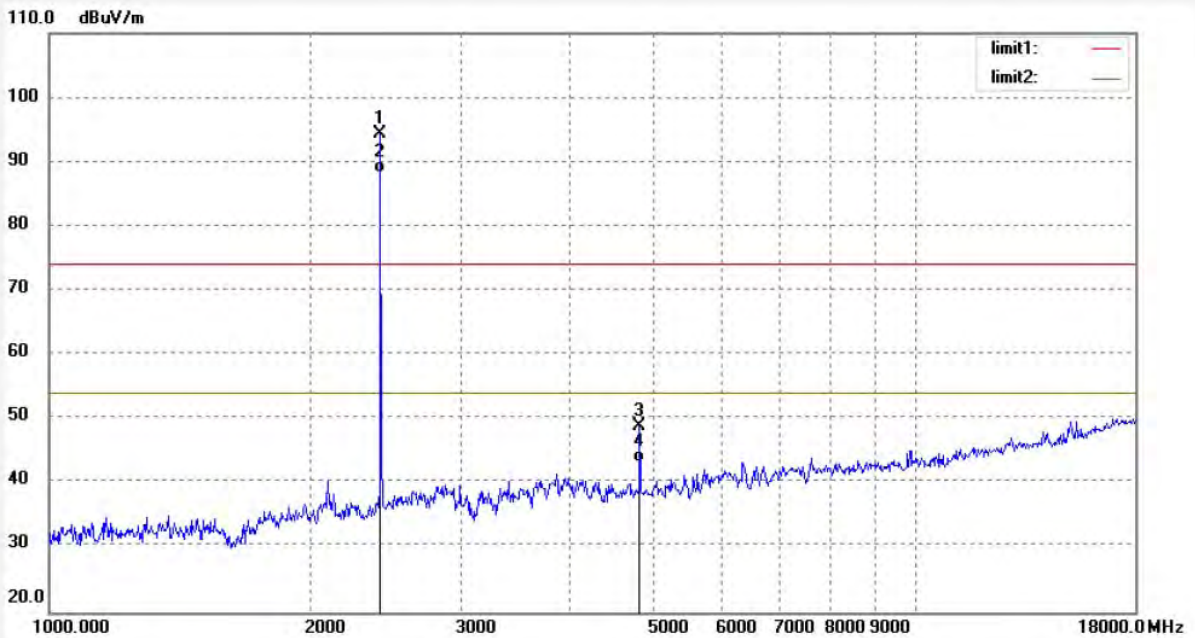
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: frank test #362
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Massage Chair
Mode: TX2441MHz(GFSK)
Model: EC-628M

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/05/04/
Time: 14/11/19
Engineer Signature: Frank
Distance: 3m

Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2441.000 | 98.62 | -4.20 | 94.42 | | | peak | 250 | 132 | |
| 2 | 2441.000 | 92.50 | -4.20 | 88.30 | | | AVG | 200 | 222 | |
| 3 | 4882.000 | 45.81 | 3.07 | 48.88 | 74.00 | -25.12 | peak | 250 | 94 | |
| 4 | 4882.000 | 40.12 | 3.07 | 43.19 | 54.00 | -10.81 | AVG | 200 | 201 | |



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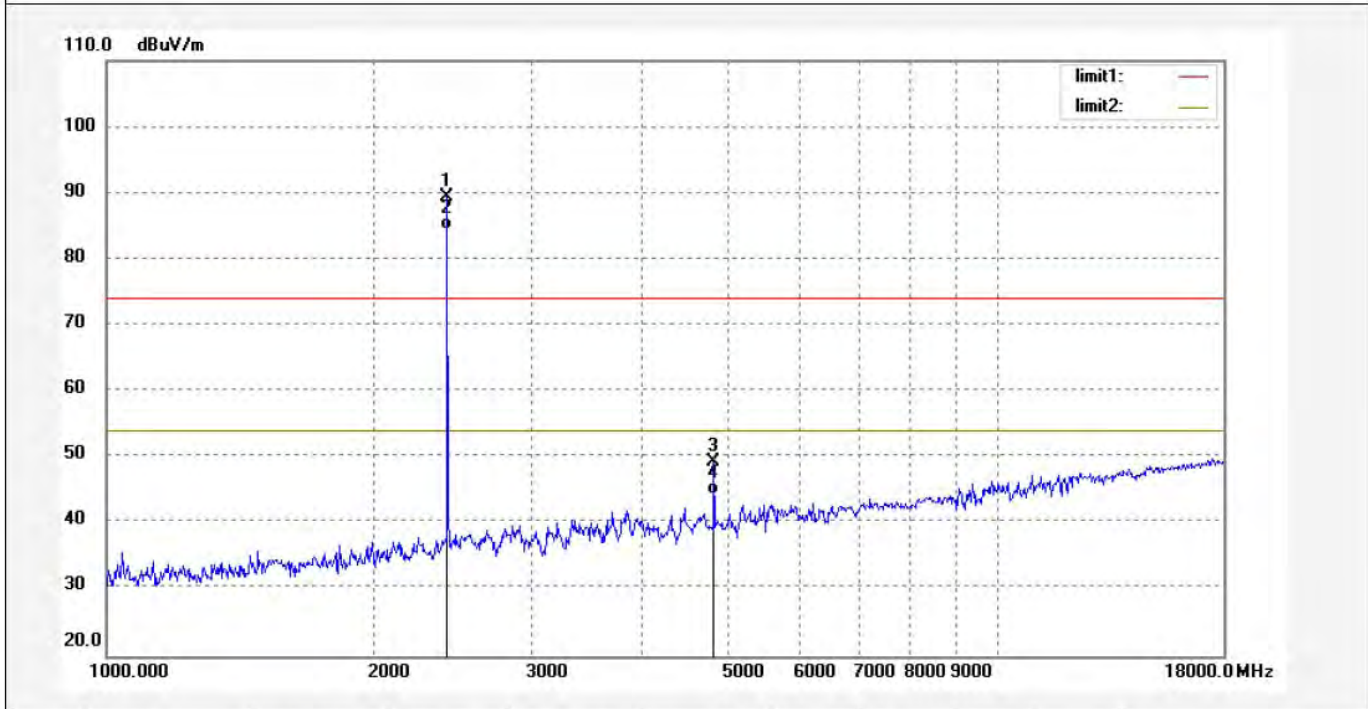
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #363 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14/16/33 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2441MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2441.000 | 93.68 | -4.20 | 89.48 | | | peak | 200 | 315 | |
| 2 | 2441.000 | 88.65 | -4.20 | 84.45 | | | AVG | 200 | 93 | |
| 3 | 4882.000 | 46.37 | 3.07 | 49.44 | 74.00 | -24.56 | peak | 200 | 61 | |
| 4 | 4882.000 | 41.32 | 3.07 | 44.39 | 54.00 | -9.61 | AVG | 250 | 109 | |



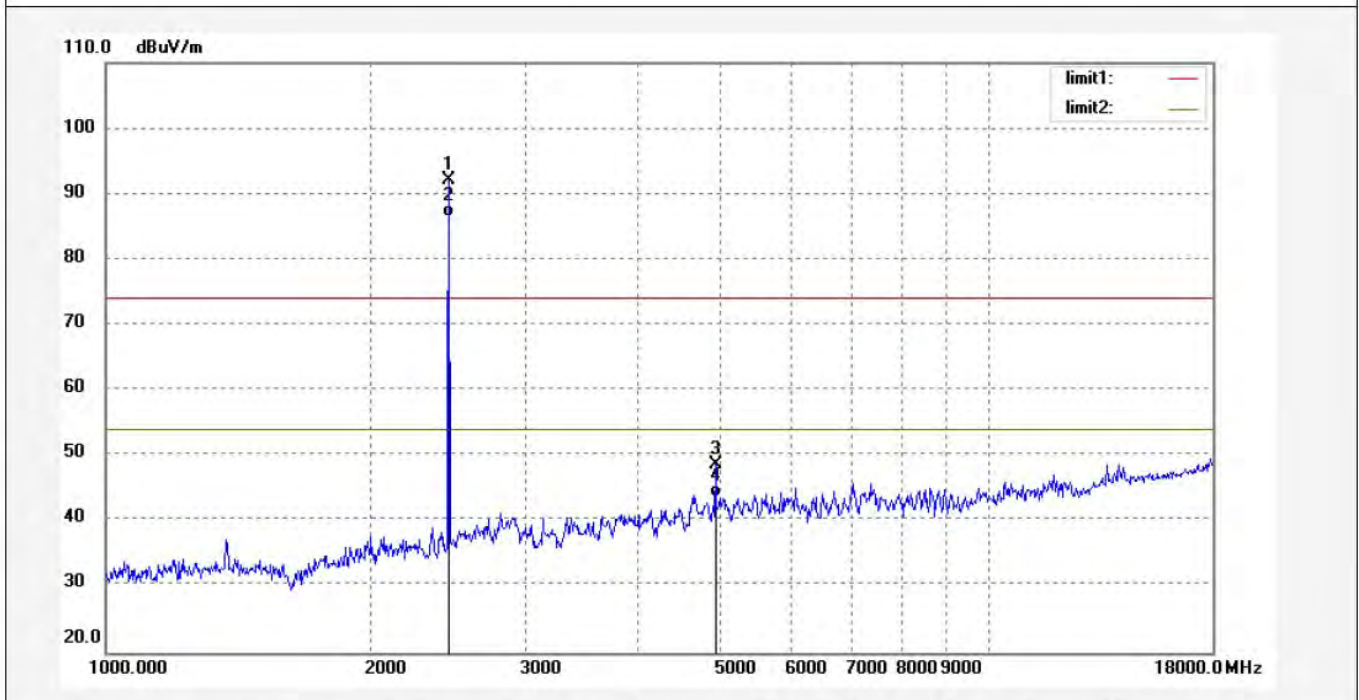
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Site: 1# Chamber
Tel:+86-0755-26503290
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| | |
|--|----------------------------|
| Job No.: frank test #364 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14/21/17 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 96.25 | -4.04 | 92.21 | | | peak | 200 | 130 | |
| 2 | 2480.000 | 90.50 | -4.04 | 86.46 | | | AVG | 200 | 208 | |
| 3 | 4960.000 | 45.11 | 3.50 | 48.61 | 74.00 | -25.39 | peak | 250 | 69 | |
| 4 | 4960.000 | 40.21 | 3.50 | 43.71 | 54.00 | -10.29 | AVG | 250 | 341 | |



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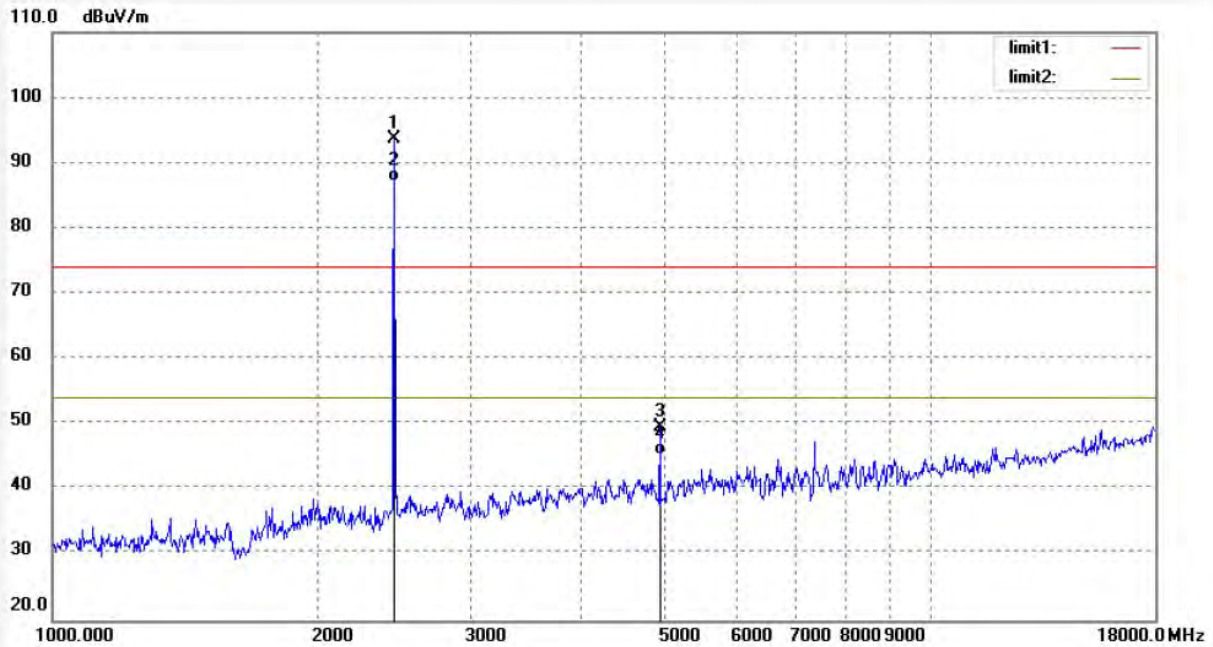
Site: 1# Chamber

Tel:+86-0755-26503290

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| | |
|--|----------------------------|
| Job No.: frank test #365 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 14/25/12 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

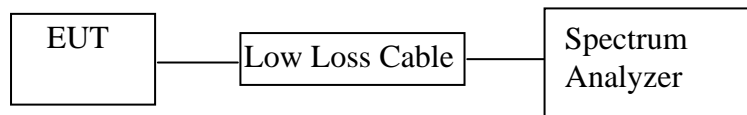
Note: Report NO.:ATE20180569



| 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 | 97.75 | -4.04 | 93.71 | | | peak | 250 | 197 | |
| 2 | 2480.000 | 91.15 | -4.04 | 87.11 | | | AVG | 250 | 93 | |
| 3 | 4960.000 | 46.10 | 3.50 | 49.60 | 74.00 | -24.40 | peak | 150 | 123 | |
| 4 | 4960.000 | 41.80 | 3.50 | 45.30 | 54.00 | -8.70 | AVG | 200 | 48 | |

11. BAND EDGE COMPLIANCE TEST

11.1. Block Diagram of Test Setup



(EUT: Massage Chair)

11.2. 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).

11.3. 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.

11.4. Operating Condition of EUT

11.4.1. Setup the EUT and simulator as shown as Section 11.1.

11.4.2. Turn on the power of all equipment.

11.4.3. Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

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

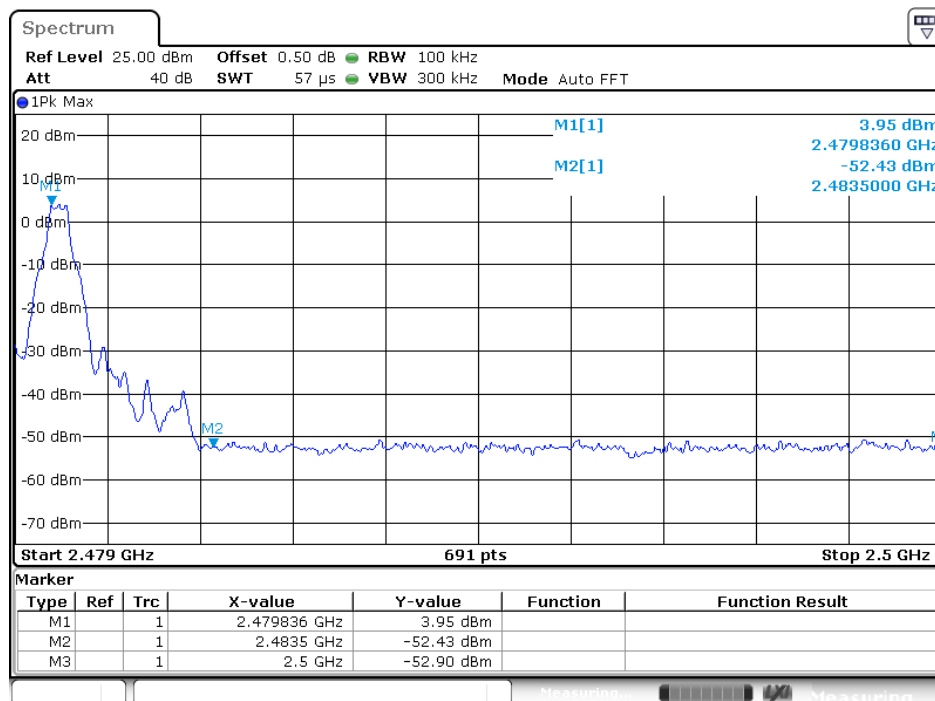
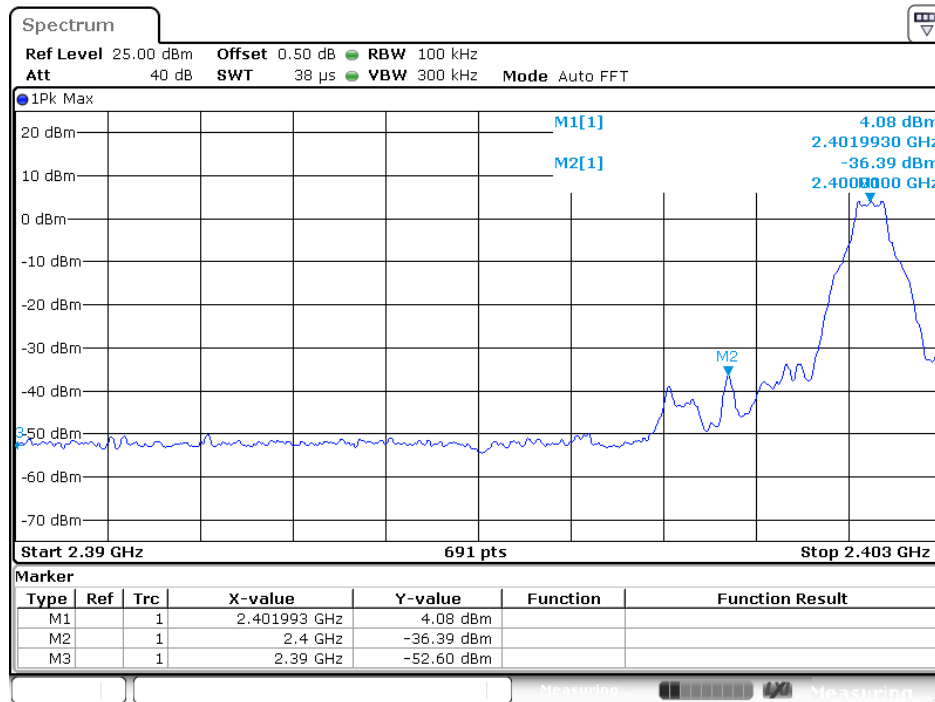
11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges were measured and recorded.

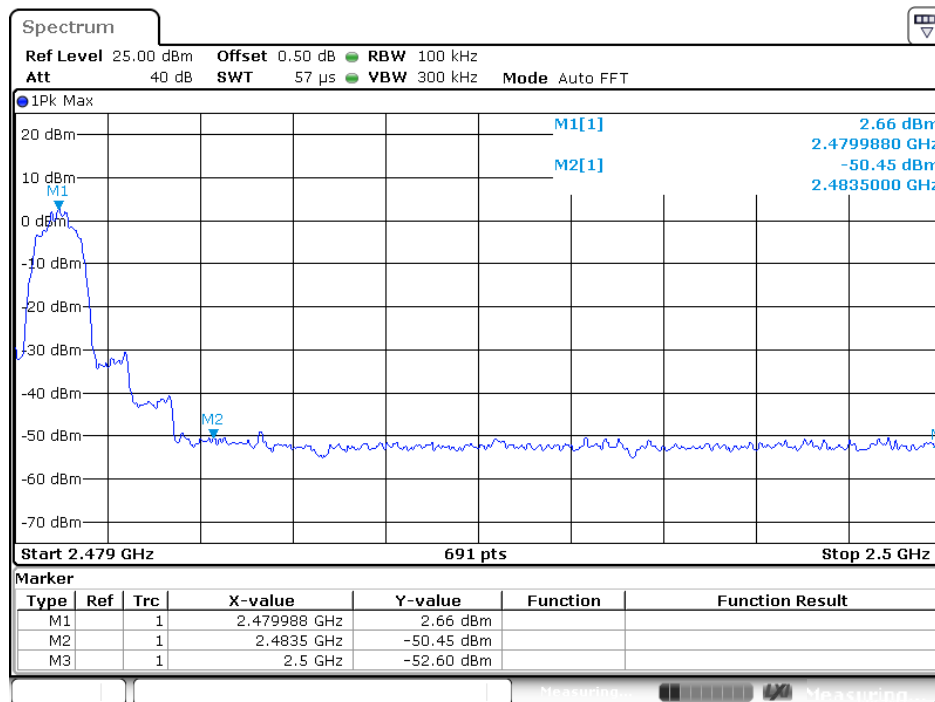
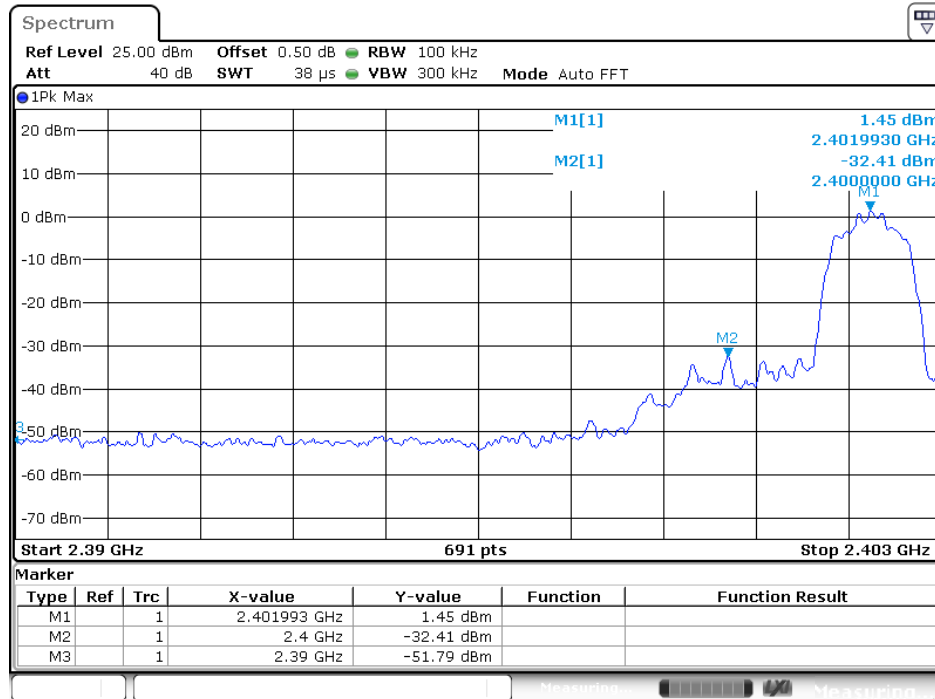
11.6. Test Result

| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
|-----------------|---------------------------|--------------------------|
| GFSK | | |
| 2400.00 | 40.47 | > 20dBc |
| 2483.50 | 56.38 | > 20dBc |
| Π/4-DQPSK Mode | | |
| 2400.00 | 33.86 | > 20dBc |
| 2483.50 | 53.11 | > 20dBc |
| 8DPSK | | |
| 2400.00 | 34.13 | > 20dBc |
| 2483.50 | 51.72 | > 20dBc |

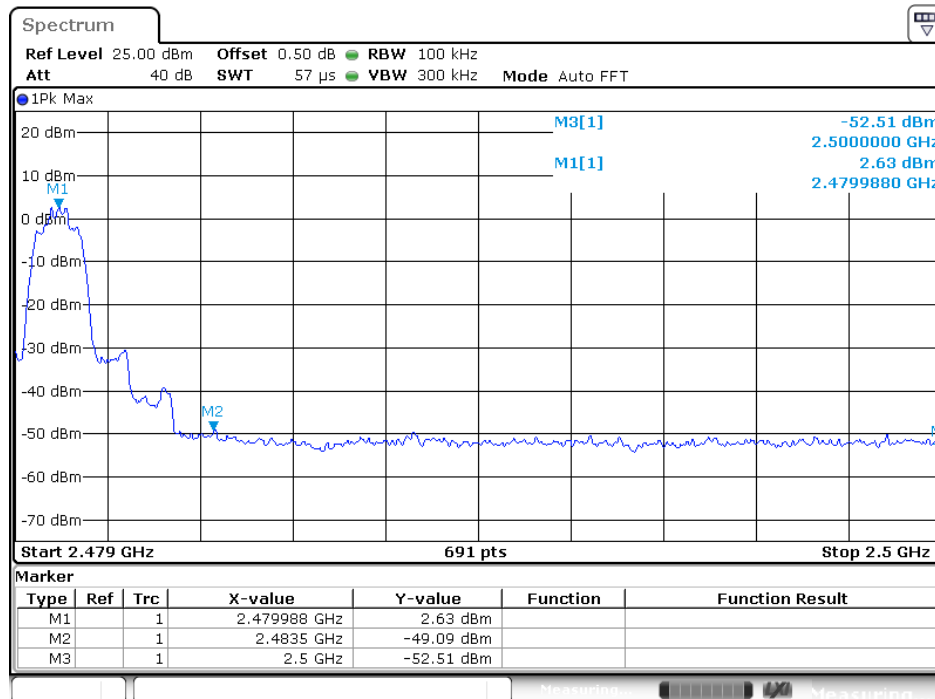
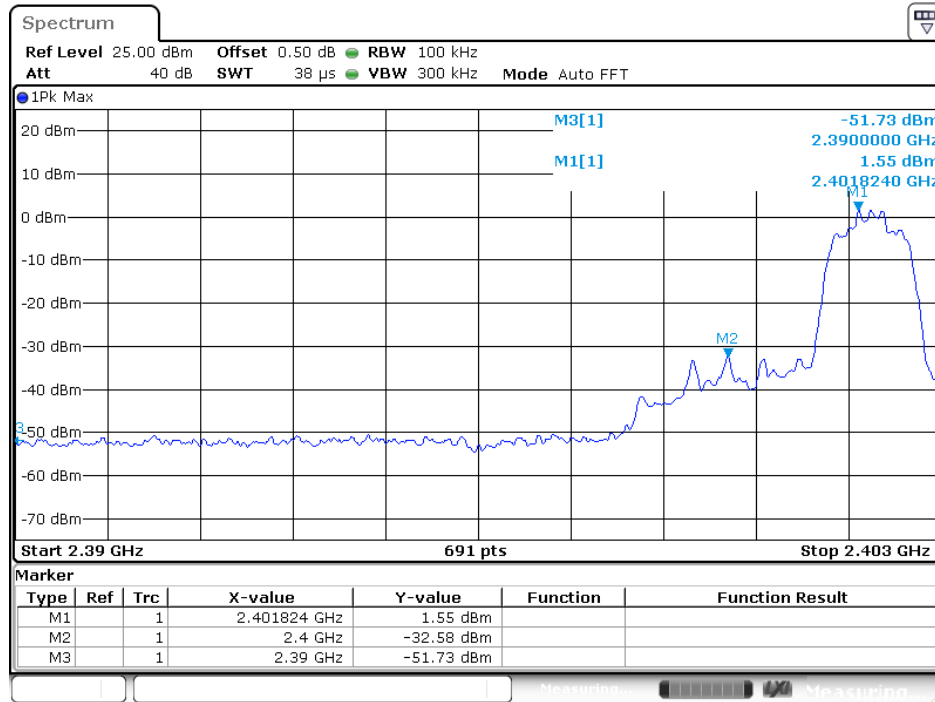
GFSK



Π/4-DQPSK Mode



8DPSK



Radiated Band Edge Result

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:

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

3. Display the measurement of peak values.

Test Procedure:

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.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).
We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

Non-hopping mode


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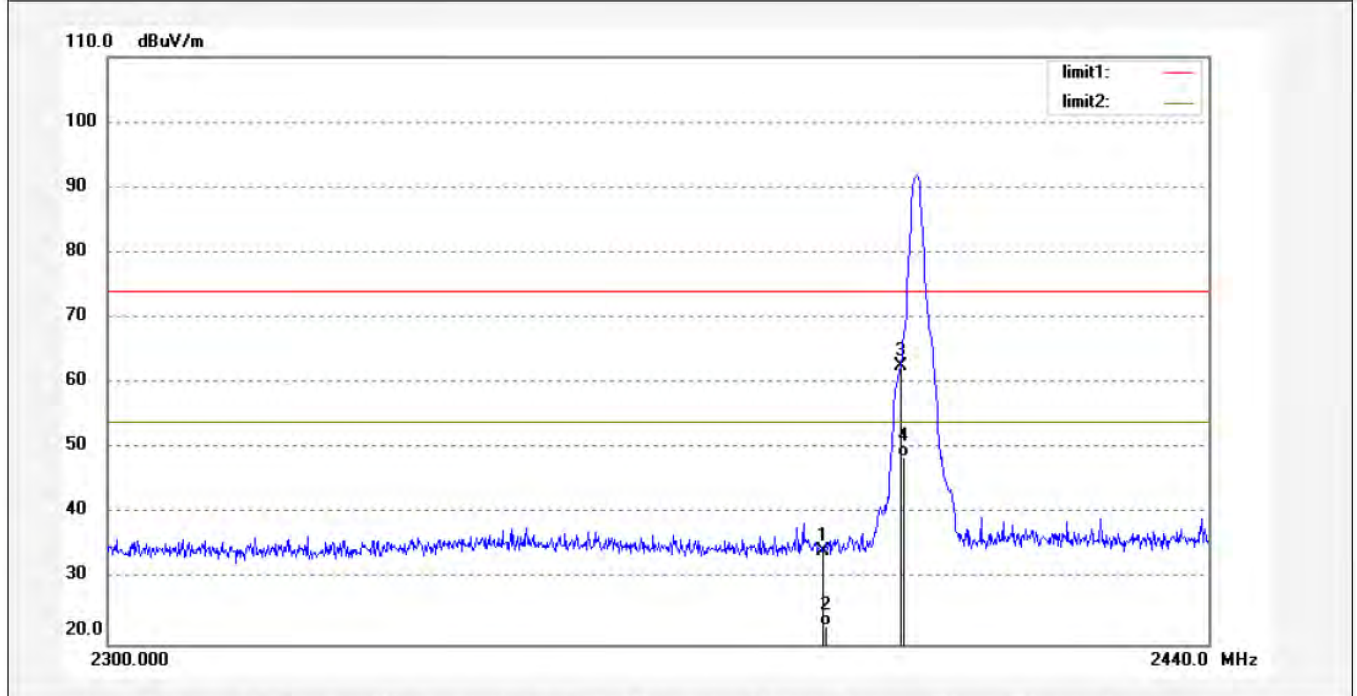
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #382 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/11/35 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 38.70 | -4.32 | 34.38 | 74.00 | -39.62 | peak | 250 | 132 | |
| 2 | 2390.000 | 27.15 | -4.32 | 22.83 | 54.00 | -31.17 | AVG | 250 | 97 | |
| 3 | 2400.000 | 66.96 | -4.27 | 62.69 | 74.00 | -11.31 | peak | 250 | 45 | |
| 4 | 2400.000 | 53.00 | -4.27 | 48.73 | 54.00 | -5.27 | AVG | 250 | 102 | |

Note: Average measurement with peak detection at No.2&4



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Fax:+86-0755-26503396

Job No.: frank test #384

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: TX2402MHz(GFSK)

Model: EC-628M

Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Polarization: Horizontal

Power Source: AC 120V/60Hz

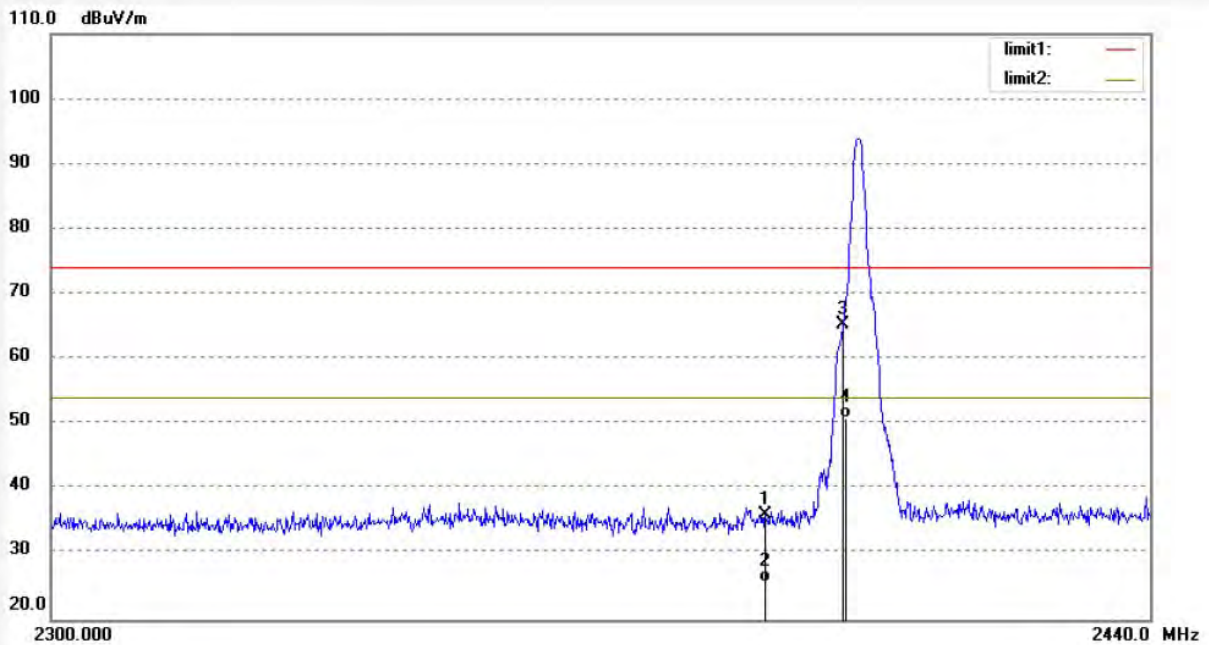
Date: 18/05/04/

Time: 16/15/28

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20180569



| 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 | 40.31 | -4.32 | 35.99 | 74.00 | -38.01 | peak | 250 | 132 | |
| 2 | 2390.000 | 30.12 | -4.32 | 25.80 | 54.00 | -28.20 | AVG | 250 | 185 | |
| 3 | 2400.000 | 69.53 | -4.27 | 65.26 | 74.00 | -8.74 | peak | 250 | 58 | |
| 4 | 2400.000 | 55.15 | -4.27 | 50.88 | 54.00 | -3.12 | AVG | 250 | 241 | |

Note: Average measurement with peak detection at No.2&4



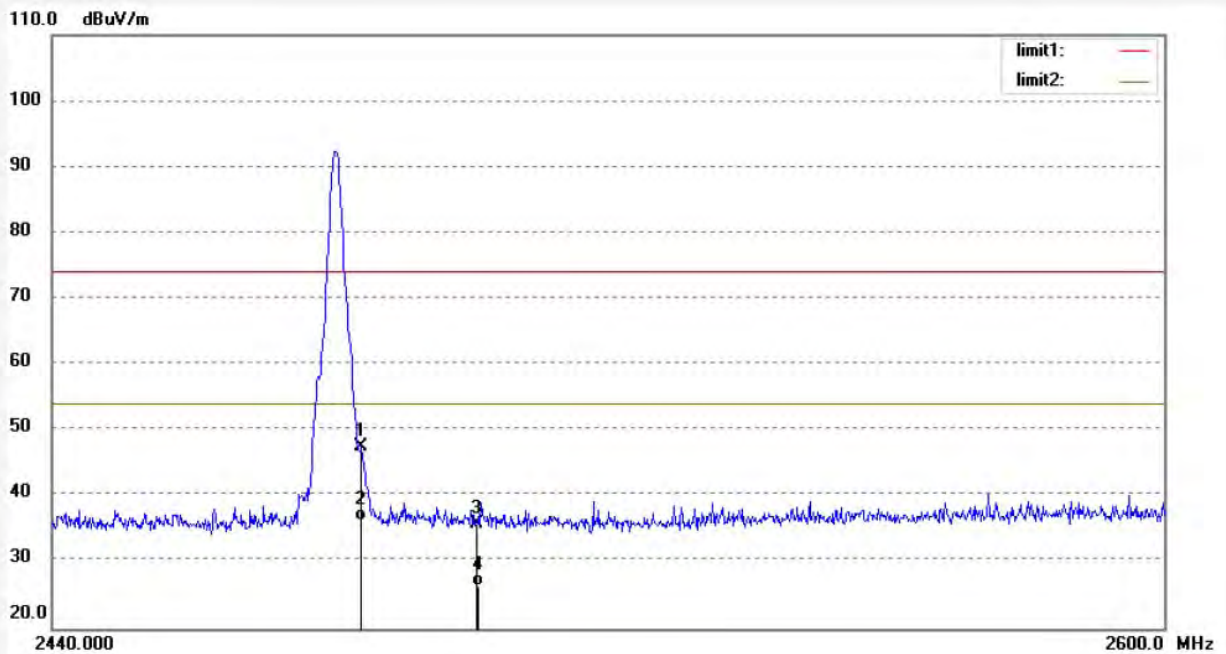
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #385 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/20/51 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569

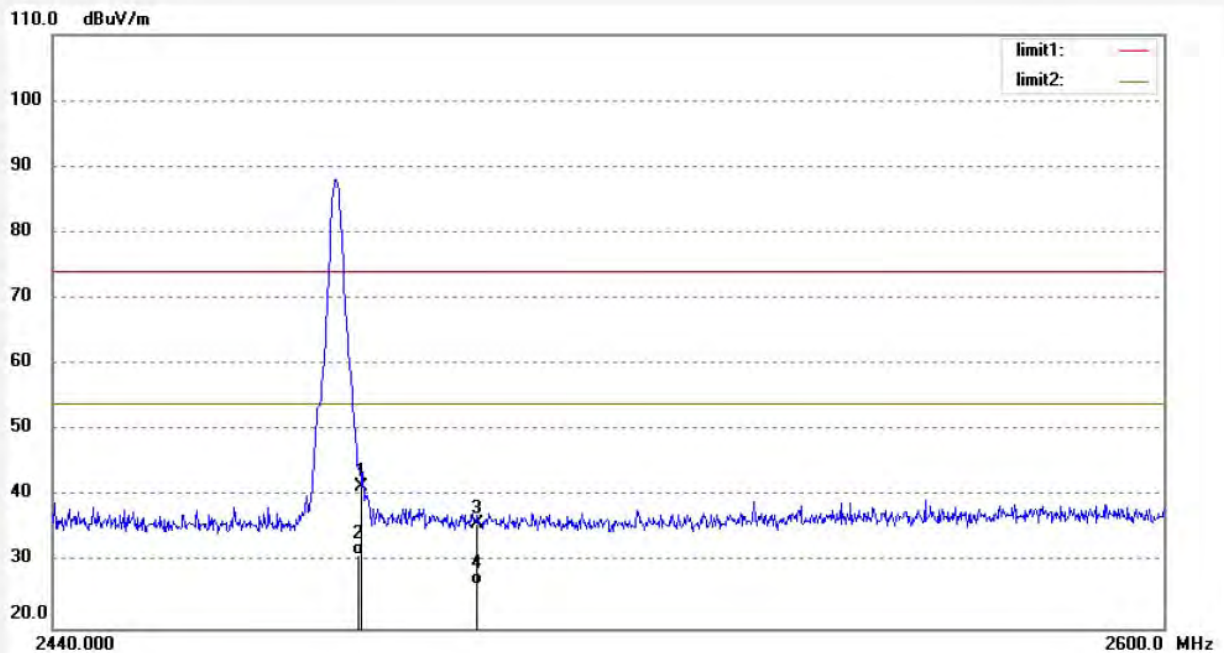


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 51.44 | -3.89 | 47.55 | 74.00 | -26.45 | peak | 250 | 194 | |
| 2 | 2483.500 | 40.30 | -3.89 | 36.41 | 54.00 | -17.59 | AVG | 250 | 259 | |
| 3 | 2500.000 | 39.66 | -3.81 | 35.85 | 74.00 | -38.15 | peak | 250 | 94 | |
| 4 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 250 | 267 | |

Note: Average measurement with peak detection at No.2&4

| | |
|--|----------------------------|
| Job No.: frank test #386 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/24/56 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 45.27 | -3.89 | 41.38 | 74.00 | -32.62 | peak | 250 | 121 | |
| 2 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 250 | 321 | |
| 3 | 2500.000 | 39.66 | -3.81 | 35.85 | 74.00 | -38.15 | peak | 250 | 94 | |
| 4 | 2500.000 | 30.45 | -3.81 | 26.64 | 54.00 | -27.36 | AVG | 250 | 204 | |

Note: Average measurement with peak detection at No.2&4

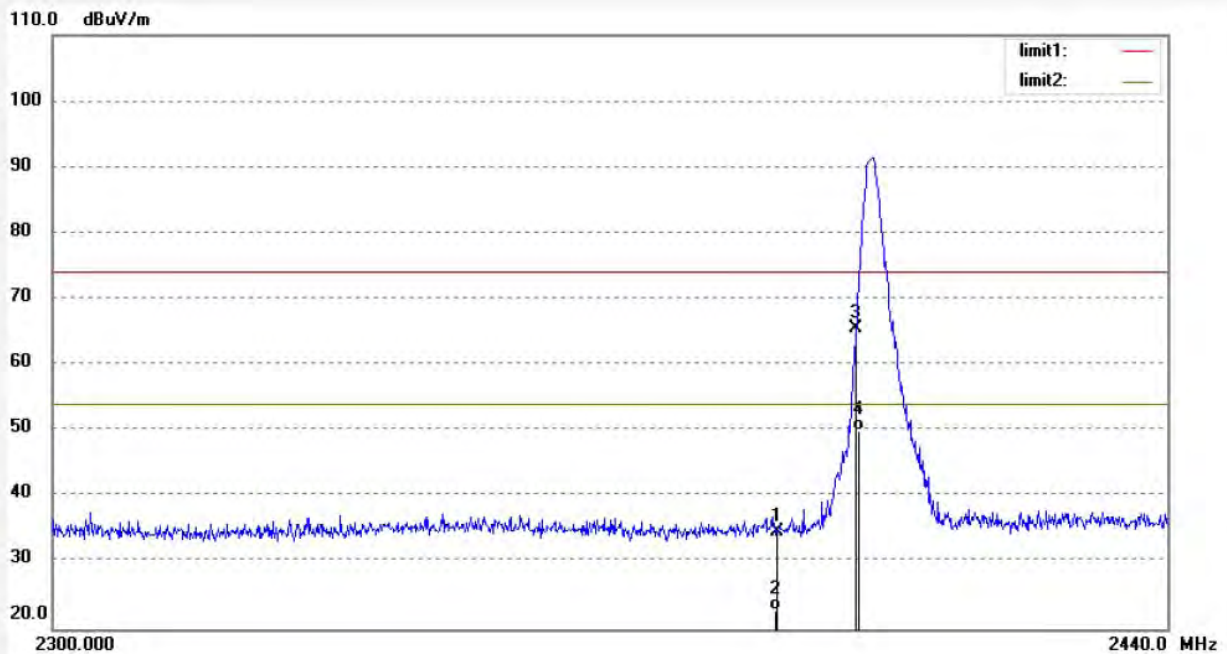


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Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #381 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 15/55/58 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(Π/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 38.95 | -4.32 | 34.63 | 74.00 | -39.37 | peak | 250 | 210 | |
| 2 | 2390.000 | 27.15 | -4.32 | 22.83 | 54.00 | -31.17 | AVG | 250 | 254 | |
| 3 | 2400.000 | 69.84 | -4.27 | 65.57 | 74.00 | -8.43 | peak | 250 | 108 | |
| 4 | 2400.000 | 54.23 | -4.27 | 49.96 | 54.00 | -4.04 | AVG | 250 | 121 | |

Note: Average measurement with peak detection at No.2&4



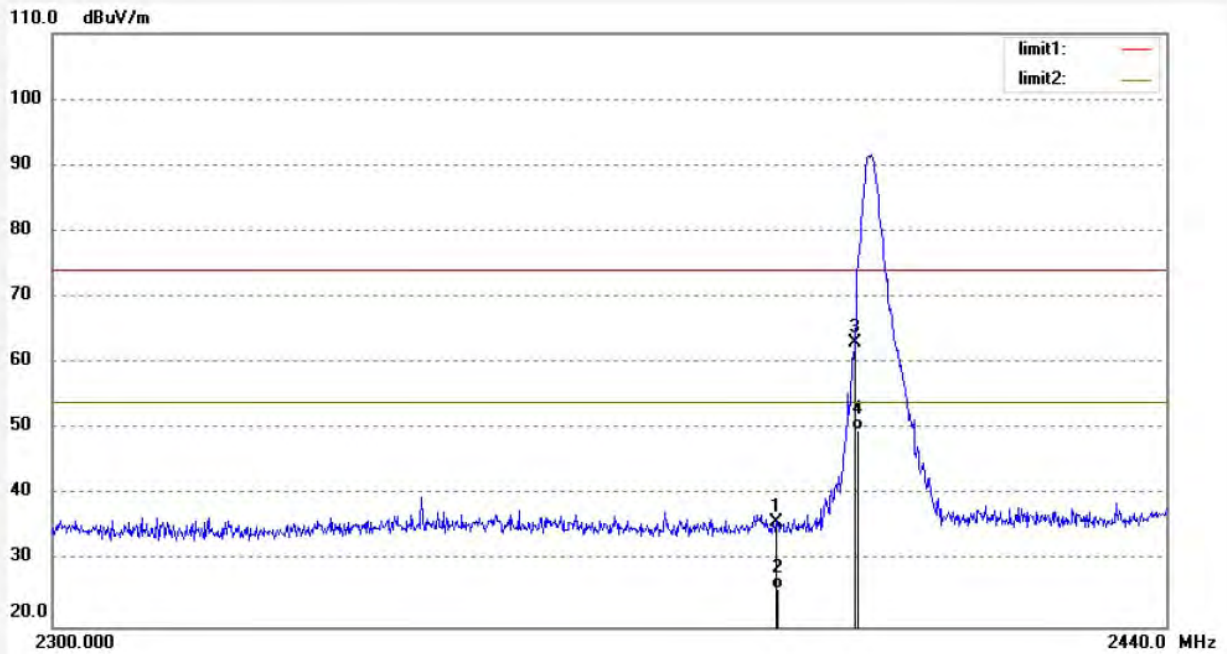
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #381 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/03/52 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(□/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 40.11 | -4.32 | 35.79 | 74.00 | -38.21 | peak | 250 | 122 | |
| 2 | 2390.000 | 30.00 | -4.32 | 25.68 | 54.00 | -28.32 | AVG | 250 | 61 | |
| 3 | 2400.000 | 67.39 | -4.27 | 63.12 | 74.00 | -10.88 | peak | 250 | 109 | |
| 4 | 2400.000 | 54.00 | -4.27 | 49.73 | 54.00 | -4.27 | AVG | 250 | 232 | |

Note: Average measurement with peak detection at No.2&4



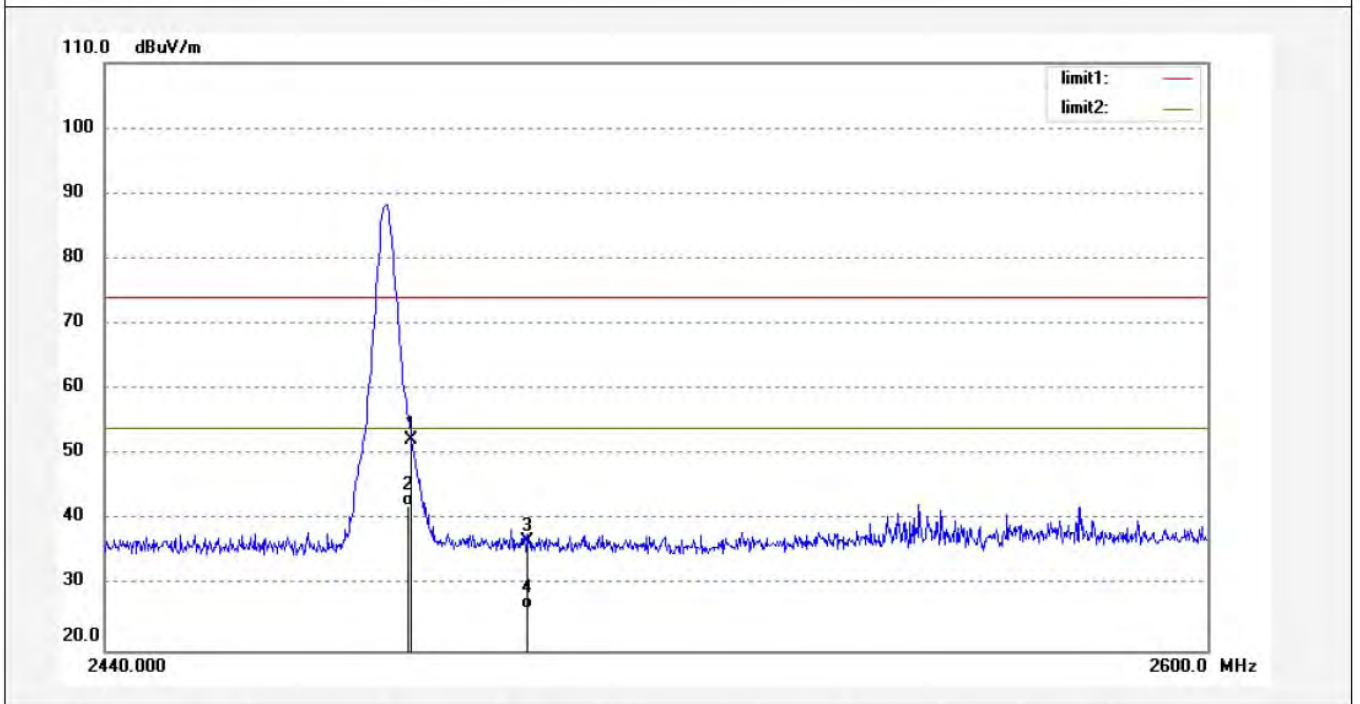
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #387 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/29/19 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(□/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 56.27 | -3.89 | 52.38 | 74.00 | -21.62 | peak | 250 | 12 | |
| 2 | 2483.500 | 46.12 | -3.89 | 42.23 | 54.00 | -11.77 | AVG | 250 | 103 | |
| 3 | 2500.000 | 40.48 | -3.81 | 36.67 | 74.00 | -37.33 | peak | 250 | 57 | |
| 4 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 200 | 124 | |

Note: Average measurement with peak detection at No.2&4



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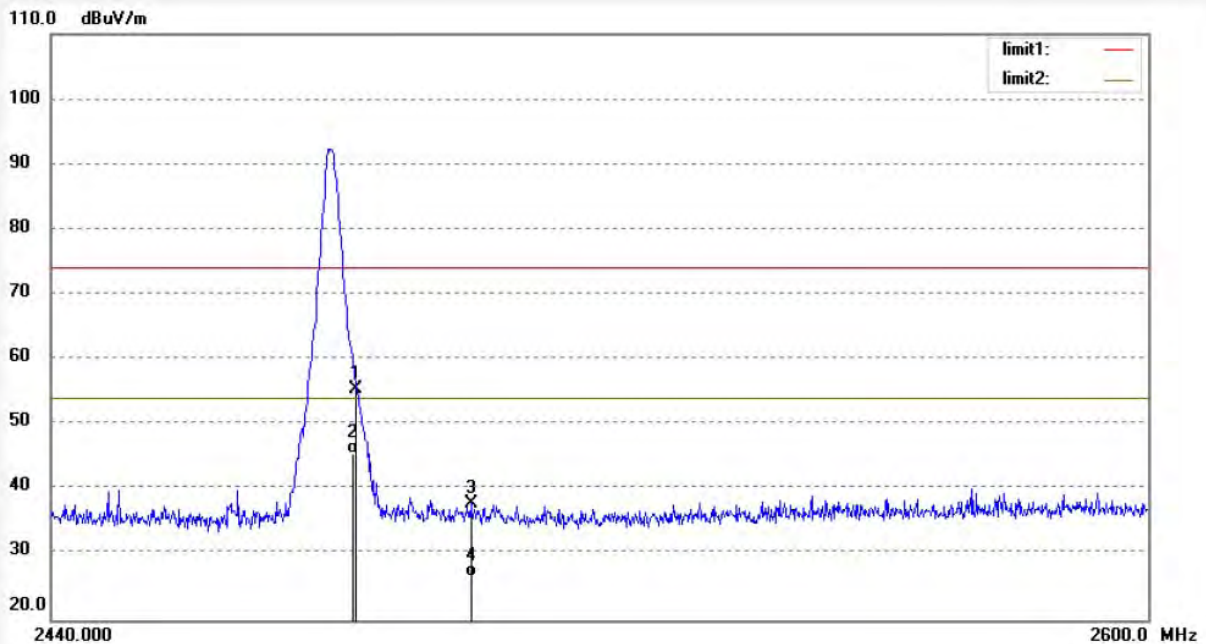
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #388 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/32/14 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(Π/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 59.29 | -3.89 | 55.40 | 74.00 | -18.60 | peak | 250 | 123 | |
| 2 | 2483.500 | 49.48 | -3.89 | 45.59 | 54.00 | -8.41 | AVG | 250 | 22 | |
| 3 | 2500.000 | 41.59 | -3.81 | 37.78 | 74.00 | -36.22 | peak | 250 | 167 | |
| 4 | 2500.000 | 30.48 | -3.81 | 26.67 | 54.00 | -27.33 | AVG | 250 | 154 | |

Note: Average measurement with peak detection at No.2&4

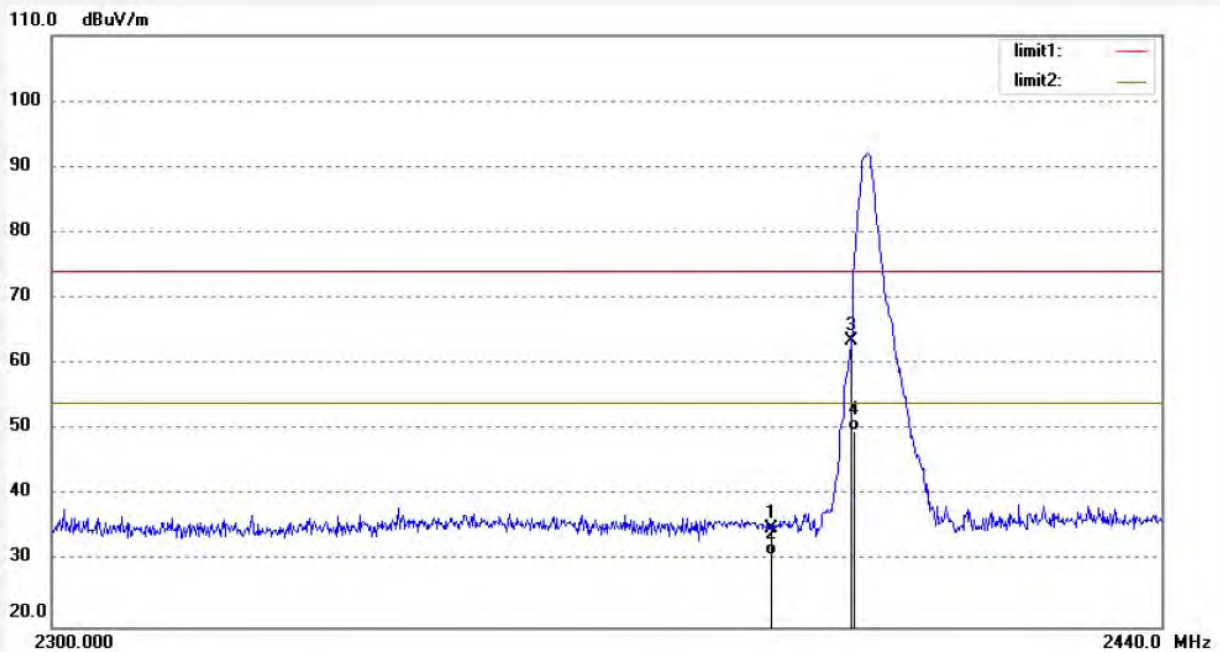


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Site: 1# Chamber
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Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #379 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 15/46/28 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(8DPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 39.31 | -4.32 | 34.99 | 74.00 | -39.01 | peak | 250 | 138 | |
| 2 | 2390.000 | 35.15 | -4.32 | 30.83 | 54.00 | -23.17 | AVG | 250 | 214 | |
| 3 | 2400.000 | 67.71 | -4.27 | 63.44 | 74.00 | -10.56 | peak | 250 | 59 | |
| 4 | 2400.000 | 54.01 | -4.27 | 49.74 | 54.00 | -4.26 | AVG | 250 | 211 | |

Note: Average measurement with peak detection at No.2&4



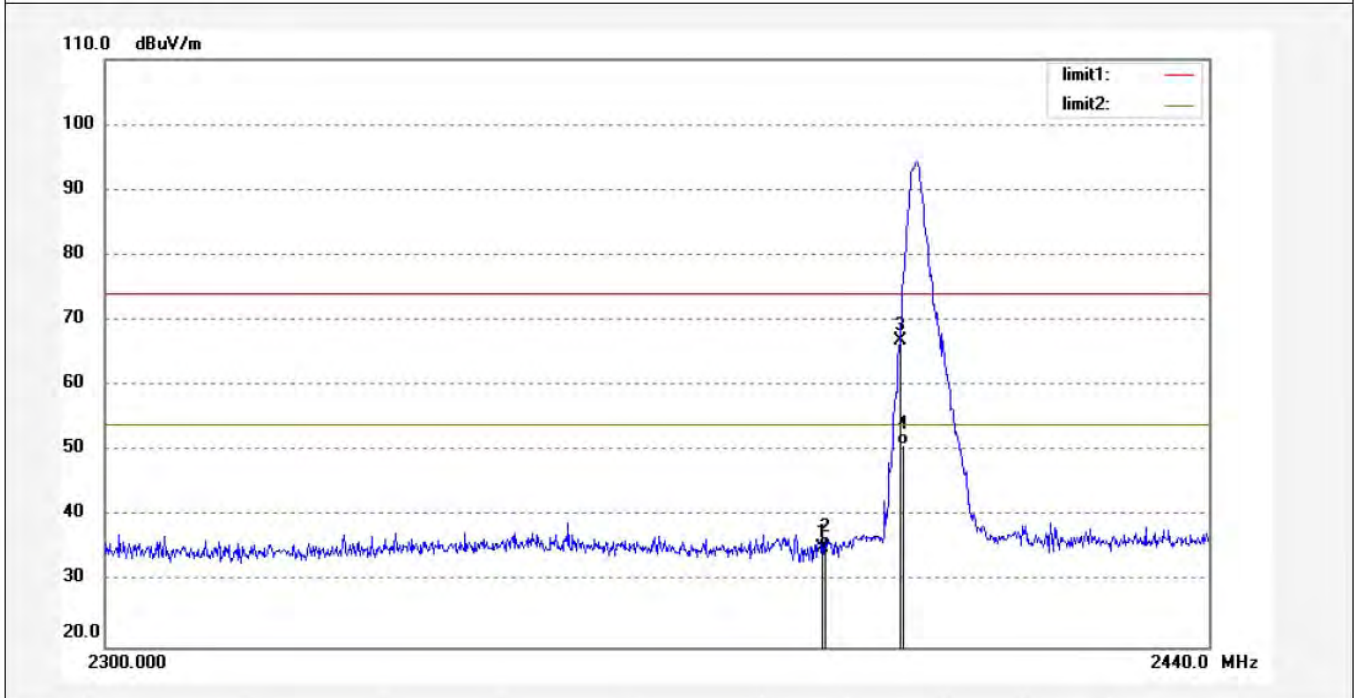
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #380 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 15/50/54 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2402MHz(8DPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 39.40 | -4.32 | 35.08 | 74.00 | -38.92 | peak | 250 | 122 | |
| 2 | 2390.000 | 39.40 | -4.32 | 35.08 | 54.00 | -18.92 | AVG | 250 | 84 | |
| 3 | 2400.000 | 71.24 | -4.27 | 66.97 | 74.00 | -7.03 | peak | 250 | 211 | |
| 4 | 2400.000 | 55.12 | -4.27 | 50.85 | 54.00 | -3.15 | AVG | 250 | 100 | |

Note: Average measurement with peak detection at No.2&4



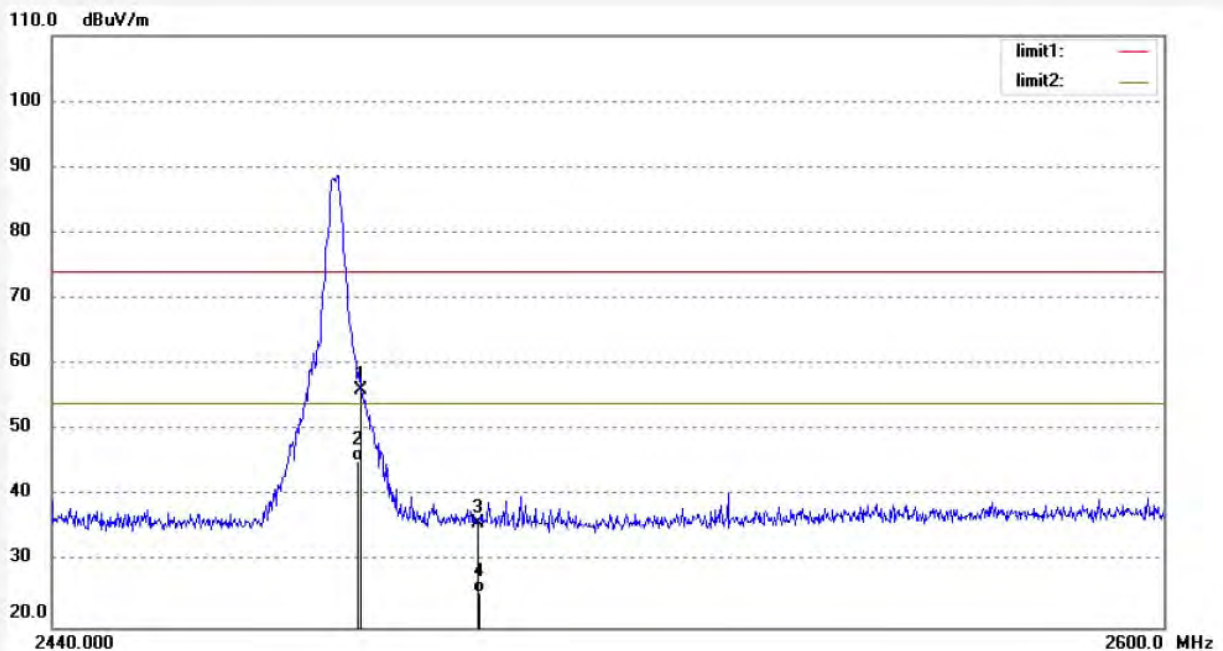
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #389 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/36/28 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(8DPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 59.97 | -3.89 | 56.08 | 74.00 | -17.92 | peak | 250 | 184 | |
| 2 | 2483.500 | 49.15 | -3.89 | 45.26 | 54.00 | -8.74 | AVG | 250 | 19 | |
| 3 | 2500.000 | 39.62 | -3.81 | 35.81 | 74.00 | -38.19 | peak | 250 | 201 | |
| 4 | 2500.000 | 29.15 | -3.81 | 25.34 | 54.00 | -28.66 | AVG | 250 | 215 | |

Note: Average measurement with peak detection at No.2&4



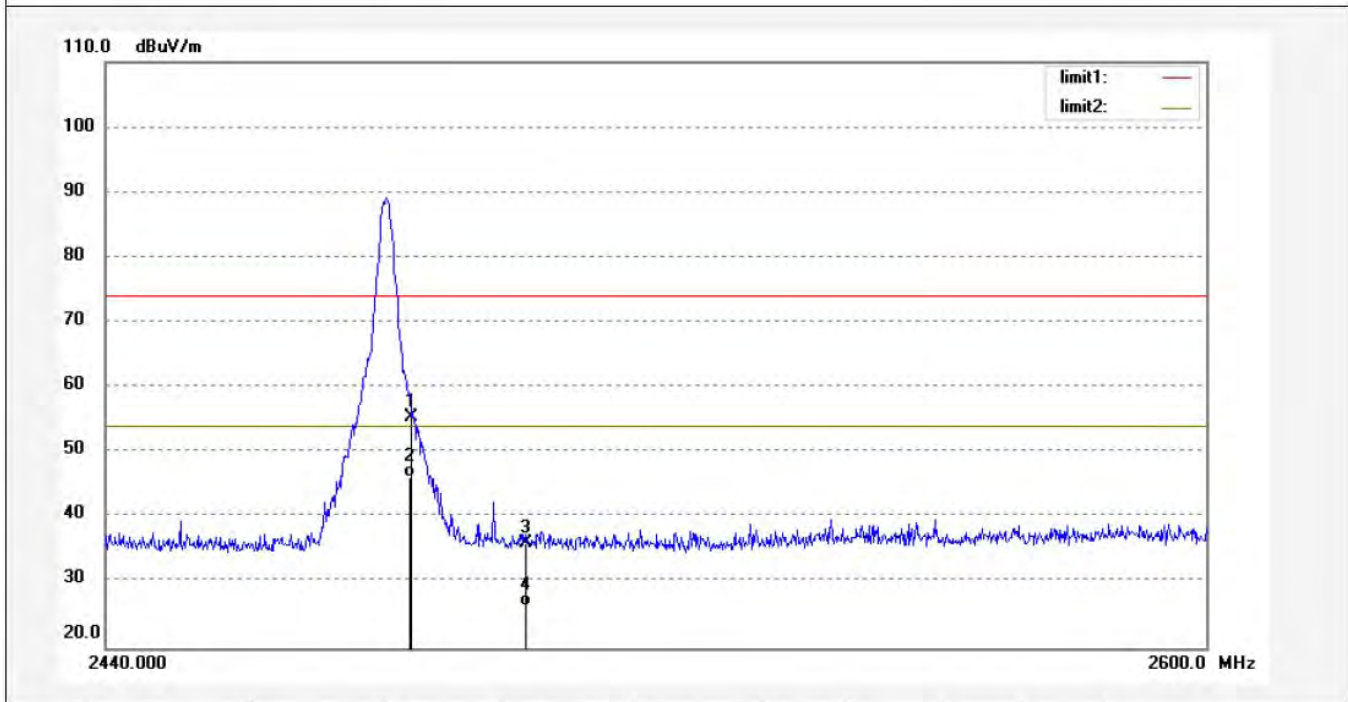
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|--|----------------------------|
| Job No.: frank test #390 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/40/32 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: TX2480MHz(8DPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 59.28 | -3.89 | 55.39 | 74.00 | -18.61 | peak | 250 | 123 | |
| 2 | 2483.500 | 50.12 | -3.89 | 46.23 | 54.00 | -7.77 | AVG | 250 | 225 | |
| 3 | 2500.000 | 39.96 | -3.81 | 36.15 | 74.00 | -37.85 | peak | 250 | 164 | |
| 4 | 2500.000 | 30.15 | -3.81 | 26.34 | 54.00 | -27.66 | AVG | 250 | 92 | |

Note: Average measurement with peak detection at No.2&4

Hopping mode



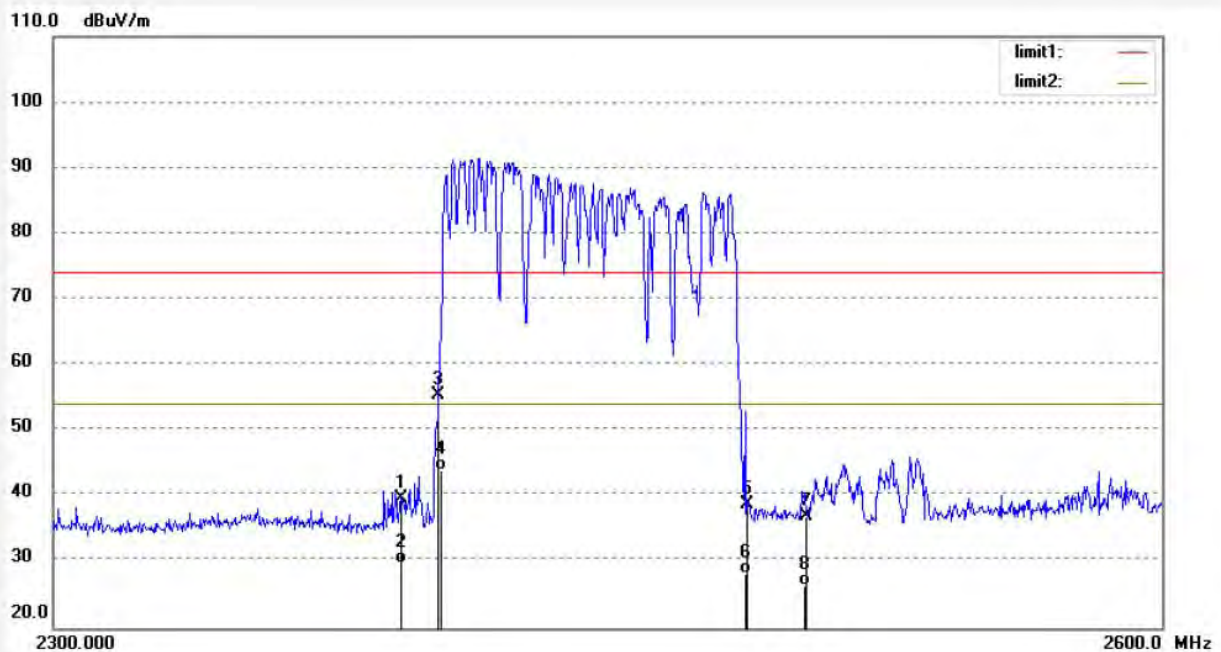
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #391 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/45/55 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: HOPPING(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 43.95 | -4.32 | 39.63 | 74.00 | -34.37 | peak | 250 | 121 | |
| 2 | 2390.000 | 34.12 | -4.32 | 29.80 | 54.00 | -24.20 | AVG | 250 | 13 | |
| 3 | 2400.000 | 59.68 | -4.27 | 55.41 | 74.00 | -18.59 | peak | 250 | 101 | |
| 4 | 2400.000 | 48.15 | -4.27 | 43.88 | 54.00 | -10.12 | AVG | 200 | 127 | |
| 5 | 2483.500 | 42.62 | -3.89 | 38.73 | 74.00 | -35.27 | peak | 200 | 195 | |
| 6 | 2483.500 | 32.15 | -3.89 | 28.26 | 54.00 | -25.74 | AVG | 200 | 125 | |
| 7 | 2500.000 | 40.83 | -3.81 | 37.02 | 74.00 | -36.98 | peak | 200 | 111 | |
| 8 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 250 | 320 | |

Note: Average measurement with peak detection at No.2&4&6&8



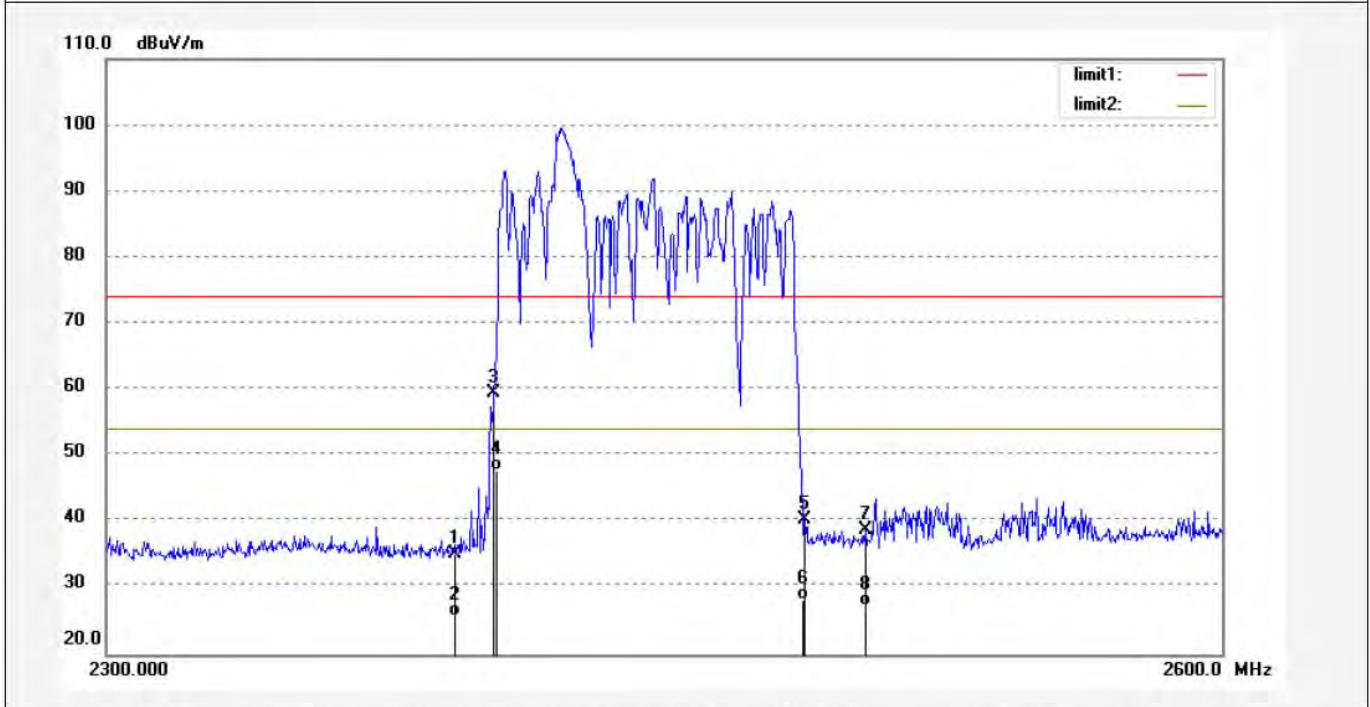
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #392 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 16/50/13 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: HOPPING(GFSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 39.40 | -4.32 | 35.08 | 74.00 | -38.92 | peak | 200 | 138 | |
| 2 | 2390.000 | 30.12 | -4.32 | 25.80 | 54.00 | -28.20 | AVG | 200 | 94 | |
| 3 | 2400.000 | 63.70 | -4.27 | 59.43 | 74.00 | -14.57 | peak | 200 | 251 | |
| 4 | 2400.000 | 52.12 | -4.27 | 47.85 | 54.00 | -6.15 | AVG | 200 | 103 | |
| 5 | 2483.500 | 44.19 | -3.89 | 40.30 | 74.00 | -33.70 | peak | 250 | 158 | |
| 6 | 2483.500 | 32.12 | -3.89 | 28.23 | 54.00 | -25.77 | AVG | 250 | 149 | |
| 7 | 2500.000 | 42.57 | -3.81 | 38.76 | 74.00 | -35.24 | peak | 250 | 201 | |
| 8 | 2500.000 | 31.15 | -3.81 | 27.34 | 54.00 | -26.66 | AVG | 200 | 321 | |

Note: Average measurement with peak detection at No.2&4&6&8



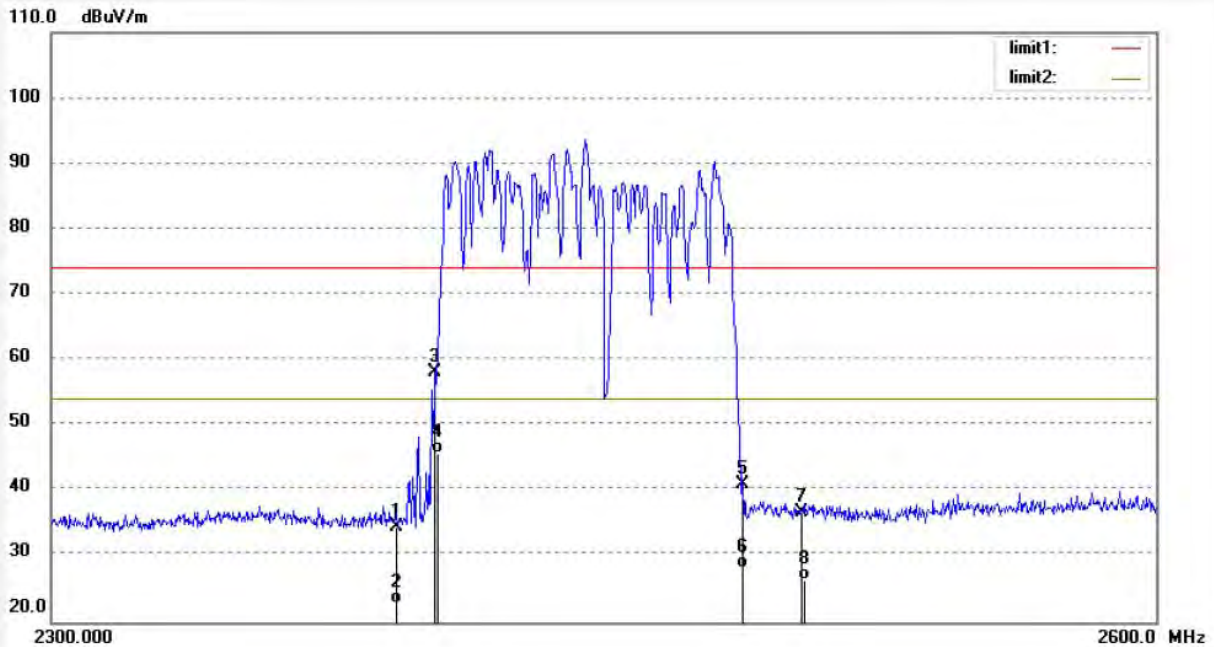
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #393 | Polarization: Horizontal |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 17/57/29 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: HOPPING(Π/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 38.87 | -4.32 | 34.55 | 74.00 | -39.45 | peak | 250 | 132 | |
| 2 | 2390.000 | 27.13 | -4.32 | 22.81 | 54.00 | -31.19 | AVG | 300 | 195 | |
| 3 | 2400.000 | 62.30 | -4.27 | 58.03 | 74.00 | -15.97 | peak | 300 | 28 | |
| 4 | 2400.000 | 50.12 | -4.27 | 45.85 | 54.00 | -8.15 | AVG | 250 | 312 | |
| 5 | 2483.500 | 44.90 | -3.89 | 41.01 | 74.00 | -32.99 | peak | 200 | 182 | |
| 6 | 2483.500 | 32.15 | -3.89 | 28.26 | 54.00 | -25.74 | AVG | 250 | 97 | |
| 7 | 2500.000 | 40.61 | -3.81 | 36.80 | 74.00 | -37.20 | peak | 250 | 83 | |
| 8 | 2500.000 | 30.18 | -3.81 | 26.37 | 54.00 | -27.63 | AVG | 250 | 156 | |

Note: Average measurement with peak detection at No.2&4&6&8



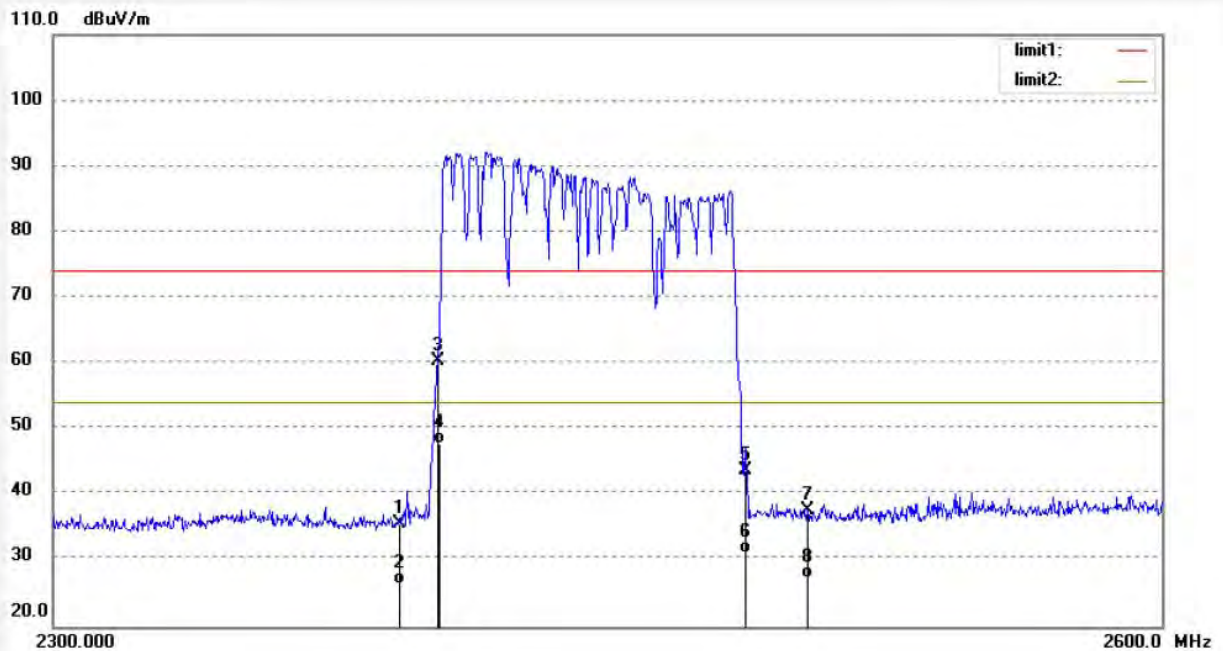
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #394 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 17/00/26 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: HOPPING(Π/4-DQPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 39.85 | -4.32 | 35.53 | 74.00 | -38.47 | peak | 200 | 159 | |
| 2 | 2390.000 | 30.65 | -4.32 | 26.33 | 54.00 | -27.67 | AVG | 150 | 138 | |
| 3 | 2400.000 | 64.60 | -4.27 | 60.33 | 74.00 | -13.67 | peak | 200 | 29 | |
| 4 | 2400.000 | 52.15 | -4.27 | 47.88 | 54.00 | -6.12 | AVG | 150 | 101 | |
| 5 | 2483.500 | 47.57 | -3.89 | 43.68 | 74.00 | -30.32 | peak | 200 | 321 | |
| 6 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 200 | 168 | |
| 7 | 2500.000 | 41.42 | -3.81 | 37.61 | 74.00 | -36.39 | peak | 200 | 95 | |
| 8 | 2500.000 | 31.21 | -3.81 | 27.40 | 54.00 | -26.60 | AVG | 200 | 112 | |

Note: Average measurement with peak detection at No.2&4&6&8



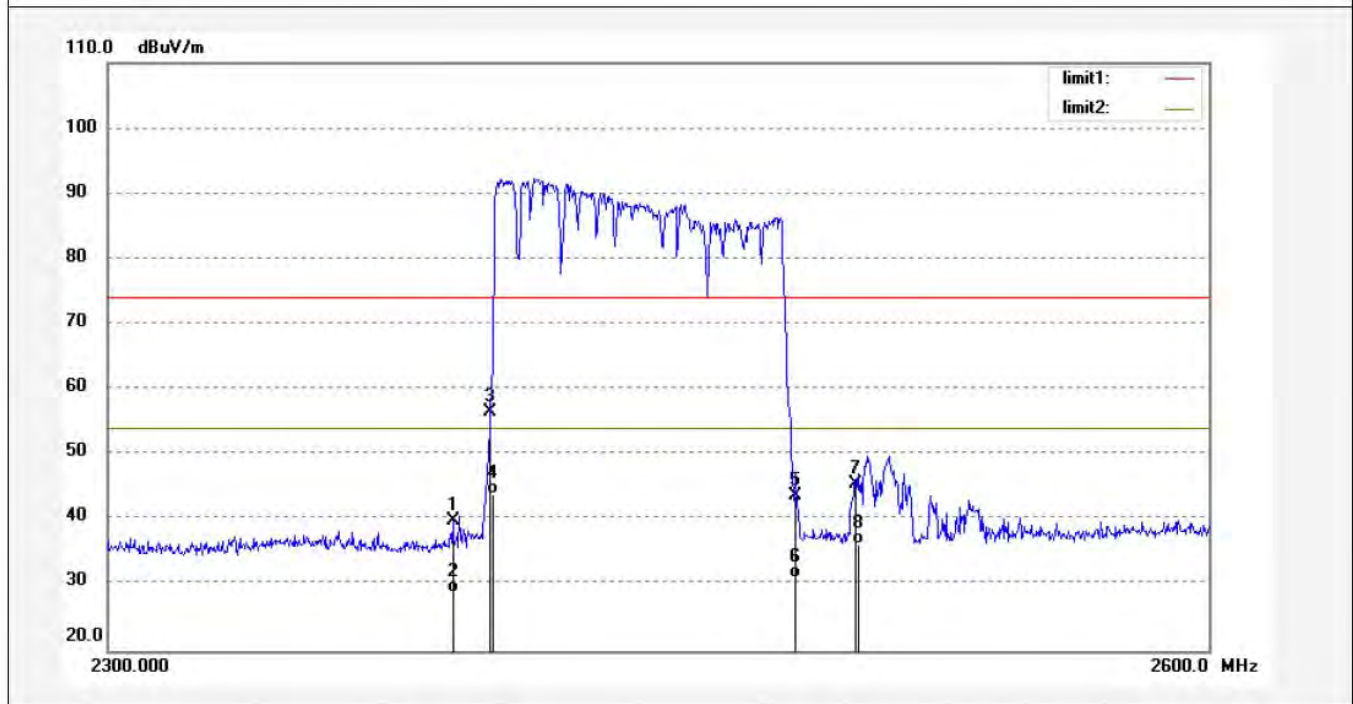
ACCURATE TECHNOLOGY CO., LTD.

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.: frank test #395 | Polarization: Vertical |
| Standard: FCC PK | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 18/05/04/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 17/06/12 |
| EUT: Massage Chair | Engineer Signature: Frank |
| Mode: HOPPING(8DPSK) | Distance: 3m |
| Model: EC-628M | |
| Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD | |

Note: Report NO.:ATE20180569



| 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 | 44.19 | -4.32 | 39.87 | 74.00 | -34.13 | peak | 150 | 270 | |
| 2 | 2390.000 | 33.15 | -4.32 | 28.83 | 54.00 | -25.17 | AVG | 150 | 351 | |
| 3 | 2400.000 | 60.83 | -4.27 | 56.56 | 74.00 | -17.44 | peak | 250 | 75 | |
| 4 | 2400.000 | 48.15 | -4.27 | 43.88 | 54.00 | -10.12 | AVG | 250 | 130 | |
| 5 | 2483.500 | 47.57 | -3.89 | 43.68 | 74.00 | -30.32 | peak | 250 | 91 | |
| 6 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 250 | 156 | |
| 7 | 2500.000 | 49.40 | -3.81 | 45.59 | 74.00 | -28.41 | peak | 250 | 150 | |
| 8 | 2500.000 | 40.12 | -3.81 | 36.31 | 54.00 | -17.69 | AVG | 250 | 122 | |

Note: Average measurement with peak detection at No.2&4&6&8



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.: frank test #396

Standard: FCC PK

Test item: Radiation Test

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

EUT: Massage Chair

Mode: HOPPING(8DPSK)

Model: EC-628M

Manufacturer: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

Polarization: Horizontal

Power Source: AC 120V/60Hz

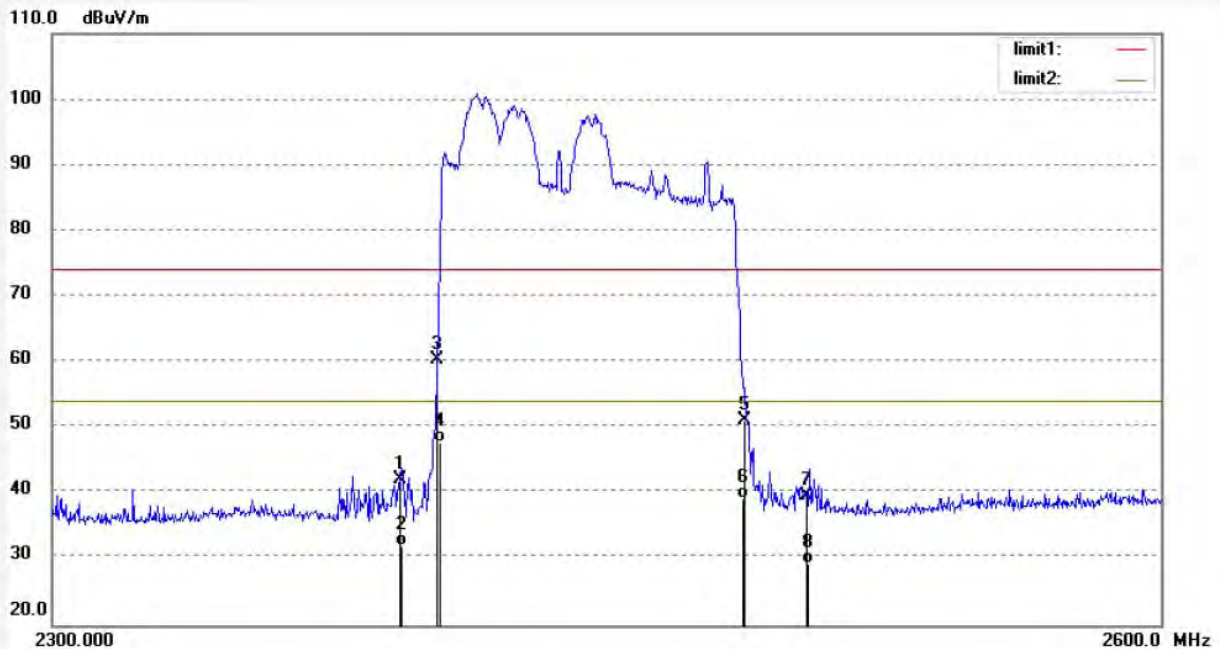
Date: 18/05/04/

Time: 17/15/03

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20180569



| 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 | 46.50 | -4.32 | 42.18 | 74.00 | -31.82 | peak | 250 | 76 | |
| 2 | 2390.000 | 36.45 | -4.32 | 32.13 | 54.00 | -21.87 | AVG | 300 | 210 | |
| 3 | 2400.000 | 64.65 | -4.27 | 60.38 | 74.00 | -13.62 | peak | 300 | 320 | |
| 4 | 2400.000 | 52.12 | -4.27 | 47.85 | 54.00 | -6.15 | AVG | 250 | 154 | |
| 5 | 2483.500 | 55.07 | -3.89 | 51.18 | 74.00 | -22.82 | peak | 250 | 56 | |
| 6 | 2483.500 | 43.12 | -3.89 | 39.23 | 54.00 | -14.77 | AVG | 250 | 54 | |
| 7 | 2500.000 | 43.54 | -3.81 | 39.73 | 74.00 | -34.27 | peak | 250 | 125 | |
| 8 | 2500.000 | 33.12 | -3.81 | 29.31 | 54.00 | -24.69 | AVG | 250 | 214 | |

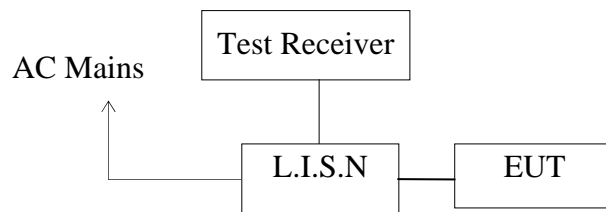
Note: Average measurement with peak detection at No.2&4&6&8

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

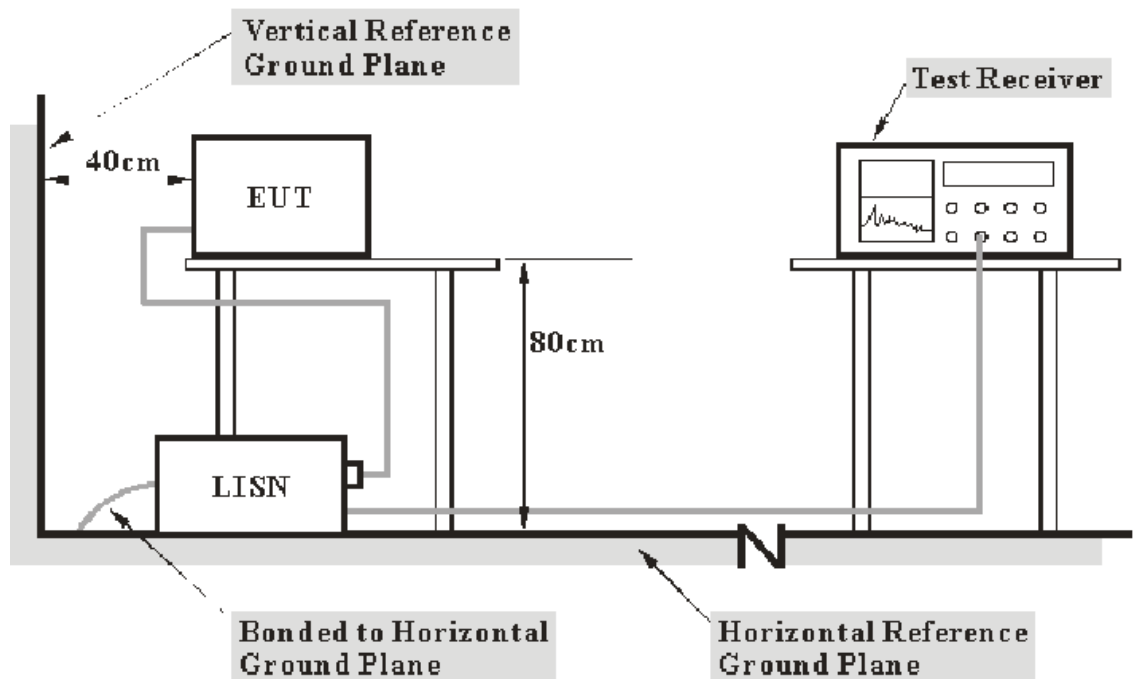
12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



(EUT: Massage Chair)

12.1.2.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.

12.2. 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.

12.3. Configuration of EUT on Measurement

The 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.

12.4. Operating Condition of EUT

12.4.1. Setup the EUT and simulator as shown as Section 12.1.

12.4.2. Turn on the power of all equipment.

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

12.5. Test Procedure

The EUT is put on the plane 0.1m 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.

12.6.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) |
|-----------------|-----------------------|------------------------------|----------------------------|------------------------------|----------------------------|-----------------------|---------------------|--------------------|
| xx.xxxx | 11.6 | 42.60 | 27.90 | 60.0 | 50.0 | -17.4 | -22.1 | 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)

12.7. 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 : EC-628M | | | | | | | | |
| MEASUREMENT RESULT: "F-0569-2_fin" | | | | | | | | |
| 4/20/2018 3:24PM | | | | | | | | |
| Frequency | Level | Transd | Limit | Margin | Detector | Line | PE | |
| MHz | dBuV | dB | dBuV | dB | | | | |
| 0.150000 | 0.70 | 10.5 | 66 | 65.3 | QP | N | GND | |
| 0.630000 | 32.60 | 10.8 | 56 | 23.4 | QP | N | GND | |
| 1.900000 | 24.80 | 11.0 | 56 | 31.2 | QP | N | GND | |
| 3.160000 | 26.00 | 11.1 | 56 | 30.0 | QP | N | GND | |
| 9.490000 | 28.10 | 11.3 | 60 | 31.9 | QP | N | GND | |
| 21.445000 | 26.90 | 11.4 | 60 | 33.1 | QP | N | GND | |
| MEASUREMENT RESULT: "F-0569-2_fin2" | | | | | | | | |
| 4/20/2018 3:24PM | | | | | | | | |
| Frequency | Level | Transd | Limit | Margin | Detector | Line | PE | |
| MHz | dBuV | dB | dBuV | dB | | | | |
| 0.360000 | -4.60 | 10.6 | 49 | 53.3 | AV | N | GND | |
| 0.630000 | 32.00 | 10.8 | 46 | 14.0 | AV | N | GND | |
| 1.900000 | 23.30 | 11.0 | 46 | 22.7 | AV | N | GND | |
| 3.160000 | 23.80 | 11.1 | 46 | 22.2 | AV | N | GND | |
| 9.490000 | 18.00 | 11.3 | 50 | 32.0 | AV | N | GND | |
| 21.580000 | 24.60 | 11.4 | 50 | 25.4 | AV | N | GND | |
| MEASUREMENT RESULT: "F-0569-1_fin" | | | | | | | | |
| 4/20/2018 3:20PM | | | | | | | | |
| Frequency | Level | Transd | Limit | Margin | Detector | Line | PE | |
| MHz | dBuV | dB | dBuV | dB | | | | |
| 0.150000 | 0.50 | 10.5 | 66 | 65.5 | QP | L1 | GND | |
| 0.630000 | 32.60 | 10.8 | 56 | 23.4 | QP | L1 | GND | |
| 1.900000 | 24.60 | 11.0 | 56 | 31.4 | QP | L1 | GND | |
| 4.430000 | 15.70 | 11.1 | 56 | 40.3 | QP | L1 | GND | |
| 9.500000 | 21.00 | 11.3 | 60 | 39.0 | QP | L1 | GND | |
| 21.490000 | 26.60 | 11.4 | 60 | 33.4 | QP | L1 | GND | |
| MEASUREMENT RESULT: "F-0569-1_fin2" | | | | | | | | |
| 4/20/2018 3:20PM | | | | | | | | |
| Frequency | Level | Transd | Limit | Margin | Detector | Line | PE | |
| MHz | dBuV | dB | dBuV | dB | | | | |
| 0.360000 | -4.70 | 10.6 | 49 | 53.4 | AV | L1 | GND | |
| 0.630000 | 33.00 | 10.8 | 46 | 13.0 | AV | L1 | GND | |
| 1.900000 | 24.50 | 11.0 | 46 | 21.5 | AV | L1 | GND | |
| 4.420000 | 6.50 | 11.1 | 46 | 39.5 | AV | L1 | GND | |
| 9.500000 | 12.50 | 11.3 | 50 | 37.5 | AV | L1 | GND | |
| 21.235000 | 17.60 | 11.4 | 50 | 32.4 | AV | L1 | GND | |

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

The spectral diagrams are attached as below.

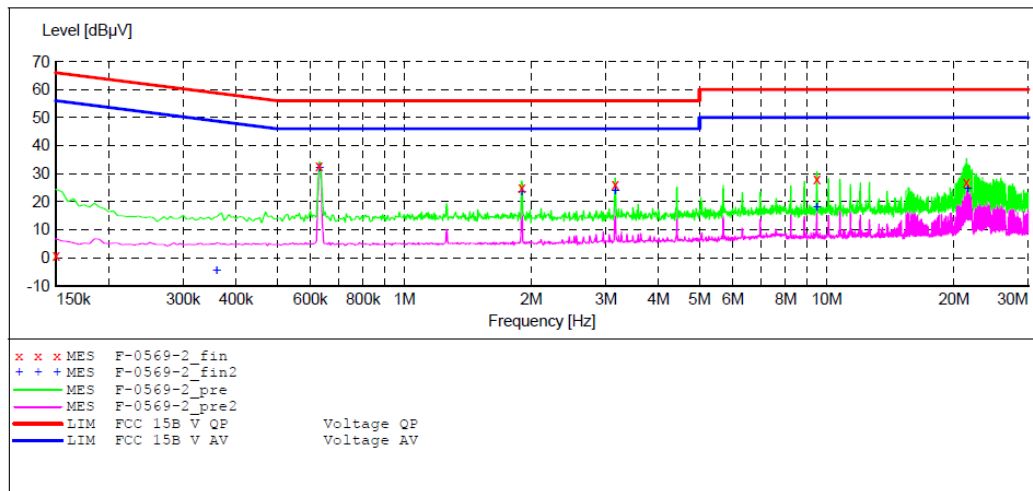
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Massage Chair M/N:EC-628M
 Manufacturer: XIAMEN COMFORT SCIENCE&TECHNOLOGY GROUP CO.,LTD
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20180569
 Start of Test: 4/20/2018 / 3:21:22PM

SCAN TABLE: "V 9K-30MHz fin"

| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |



MEASUREMENT RESULT: "F-0569-2_fin"

4/20/2018 3:24PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.150000 | 0.70 | 10.5 | 66 | 65.3 | QP | N | GND |
| 0.630000 | 32.60 | 10.8 | 56 | 23.4 | QP | N | GND |
| 1.900000 | 24.80 | 11.0 | 56 | 31.2 | QP | N | GND |
| 3.160000 | 26.00 | 11.1 | 56 | 30.0 | QP | N | GND |
| 9.490000 | 28.10 | 11.3 | 60 | 31.9 | QP | N | GND |
| 21.445000 | 26.90 | 11.4 | 60 | 33.1 | QP | N | GND |

MEASUREMENT RESULT: "F-0569-2_fin2"

4/20/2018 3:24PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.360000 | -4.60 | 10.6 | 49 | 53.3 | AV | N | GND |
| 0.630000 | 32.00 | 10.8 | 46 | 14.0 | AV | N | GND |
| 1.900000 | 23.30 | 11.0 | 46 | 22.7 | AV | N | GND |
| 3.160000 | 23.80 | 11.1 | 46 | 22.2 | AV | N | GND |
| 9.490000 | 18.00 | 11.3 | 50 | 32.0 | AV | N | GND |
| 21.580000 | 24.60 | 11.4 | 50 | 25.4 | AV | N | GND |

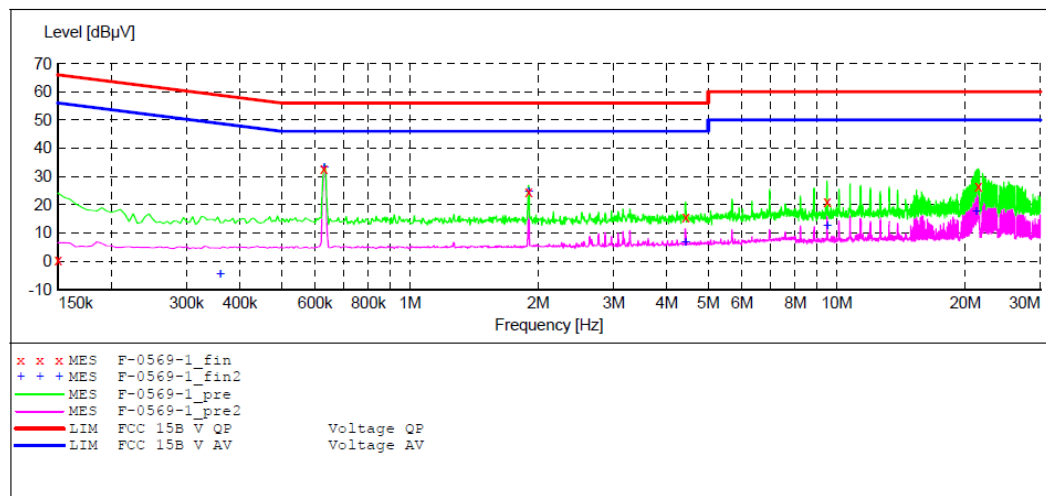
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15C

EUT: Message Chair M/N:EC-628M
 Manufacturer: XIAMEN COMFORT SCIENCE&TECHNOLOGY GROUP CO.,LTD
 Operating Condition: BT communicating
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20180569
 Start of Test: 4/20/2018 / 3:17:09PM

SCAN TABLE: "V 9K-30MHz fin"

| Start Frequency | Stop Frequency | Step | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|----------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | | | |
| | | | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "F-0569-1_fin"

4/20/2018 3:20PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.150000 | 0.50 | 10.5 | 66 | 65.5 | QP | L1 | GND |
| 0.630000 | 32.60 | 10.8 | 56 | 23.4 | QP | L1 | GND |
| 1.900000 | 24.60 | 11.0 | 56 | 31.4 | QP | L1 | GND |
| 4.430000 | 15.70 | 11.1 | 56 | 40.3 | QP | L1 | GND |
| 9.500000 | 21.00 | 11.3 | 60 | 39.0 | QP | L1 | GND |
| 21.490000 | 26.60 | 11.4 | 60 | 33.4 | QP | L1 | GND |

MEASUREMENT RESULT: "F-0569-1_fin2"

4/20/2018 3:20PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.360000 | -4.70 | 10.6 | 49 | 53.4 | AV | L1 | GND |
| 0.630000 | 33.00 | 10.8 | 46 | 13.0 | AV | L1 | GND |
| 1.900000 | 24.50 | 11.0 | 46 | 21.5 | AV | L1 | GND |
| 4.420000 | 6.50 | 11.1 | 46 | 39.5 | AV | L1 | GND |
| 9.500000 | 12.50 | 11.3 | 50 | 37.5 | AV | L1 | GND |
| 21.235000 | 17.60 | 11.4 | 50 | 32.4 | AV | L1 | GND |

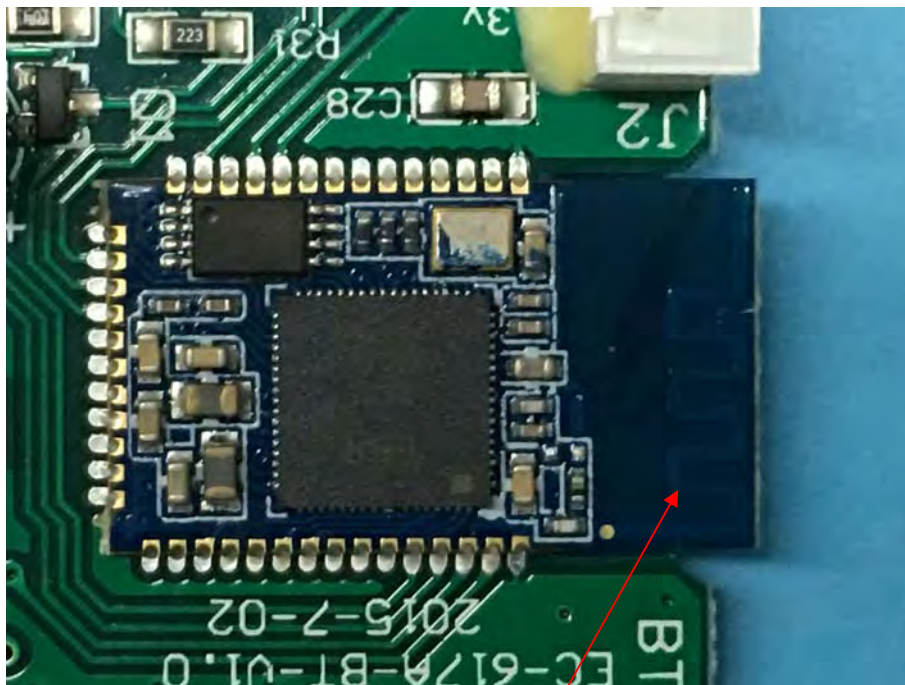
13. ANTENNA REQUIREMENT

13.1. 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.

13.2. Antenna Construction

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



Antenna

***** End of Test Report *****