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TEST REPORT

Product Fetal Monitor

Trade mark **JUMPER** Model/Type reference JPD-300E

N/A **Serial Number**

Report Number : EED32K00171701 FCC ID : 2ADYL-JPD300E

Date of Issue : Feb. 19, 2019

Test Standards : 47 CFR Part 15Subpart C

Test result **PASS**

Prepared for:

Shenzhen Jumper Medical Equipment Co., Ltd D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Peter

Date:

Feb. 19, 2019

Kevin yang

Relm (

Check No.:3177469070









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2 Version

| Version No. Date | | /ersion No. Date Description | | |
|------------------|---------------|----------------------------------|------|--------|
| 00 | Feb. 19, 2019 | 9 Original | | |
| | 200 | 100 | 75 | 75 |
| (| | (c ² / ₂) | (81) | (6,77) |











































































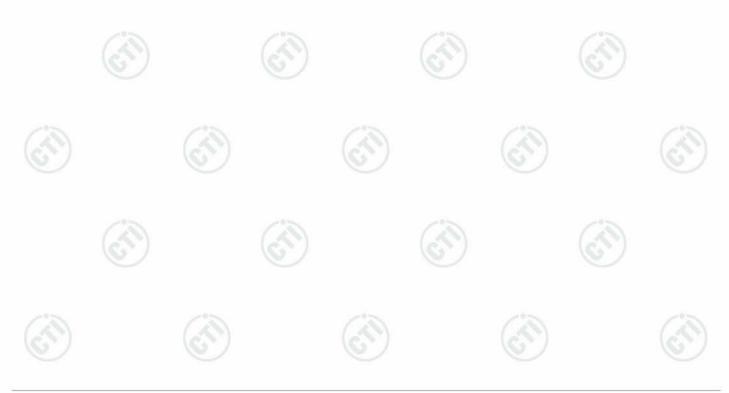
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3 Test Summary

| Test Item | Toot Possiroment | Toot mathad | Result |
|---|--|------------------|--------|
| restitem | Test Requirement | Test method | Resul |
| Antenna Requirement | 47 CFR Part 15Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15Subpart C Section 15.207 | ANSI C63.10-2013 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15Subpart C Section 15.247 (b)(3) | ANSI C63.10-2013 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15Subpart C Section 15.247 (a)(2) | ANSI C63.10-2013 | PASS |
| Power Spectral Density | 47 CFR Part 15Subpart C Section 15.247 (e) | ANSI C63.10-2013 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15Subpart C Section 15.247(d) | ANSI C63.10-2013 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15Subpart C Section 15.247(d) | ANSI C63.10-2013 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15Subpart C Section 15.205/15.209 | ANSI C63.10-2013 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15Subpart C Section 15.205/15.209 | ANSI C63.10-2013 | PASS |

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013. The tested sample(s) and the sample information are provided by the client.







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| 2 VERSION | | | ••••• | | 2 |
| TEST SUMMARY | | | ••••• | ••••• | 3 |
| 4 CONTENT | | | | ••••• | 4 |
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| 7 EQUIPMENT LIST | | | ••••• | | 10 |
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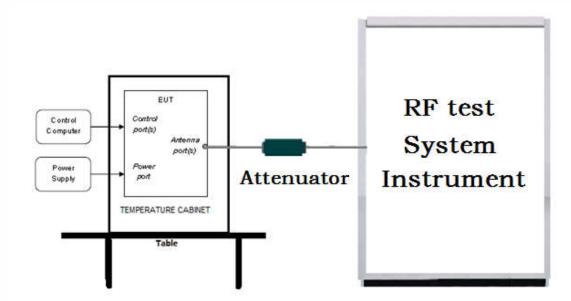


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

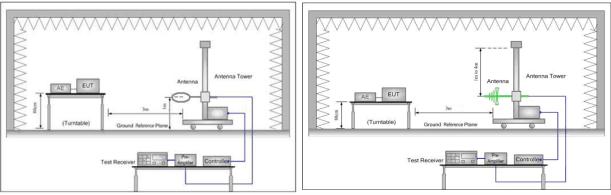


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

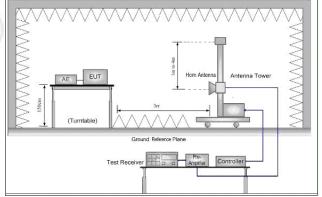
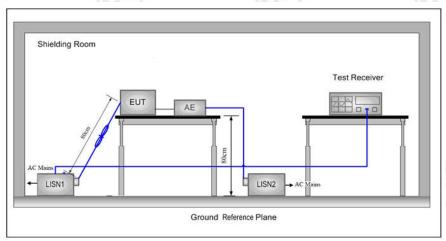


Figure 3. Above 1GHz





5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

| Operating Environment (RF) : | | (0) |
|------------------------------|----------|-----|
| Temperature: | 24°C | |
| Humidity: | 57 % RH | |
| Atmospheric Pressure: | 1010mbar | (0) |

5.3 Test Condition

Test channel:

| Test Mode | Tx/Rx | RF Channel | | | | |
|--------------------|---------------------------------|-----------------------|-----------------------|---|--|--|
| | TX/RX | Low(L) | Middle(M) | Middle(M) High(H) Channel 20 Channel 40 | | |
| 0504 | 0.4000.411 0.400.8411 | Channel 1 | Channel 20 | Channel 40 | | |
| GFSK | 2402MHz ~2480 MHz | 2402MHz | 2402MHz 2440MHz 2480M | 2480MHz | | |
| Transmitting mode: | The EUT transmitted the continu | uous signal at the sp | ecific channel(s). | | | |







6 General Information

6.1 Client Information

| Applicant: | Shenzhen Jumper Medical Equipment Co., Ltd | |
|--------------------------|--|-----|
| Address of Applicant: | D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China | -05 |
| Manufacturer: | Shenzhen Jumper Medical Equipment Co., Ltd | .5 |
| Address of Manufacturer: | D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China | |
| Factory: | Shenzhen Jumper Medical Equipment Co., Ltd | |
| Address of Factory: | D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China | |

6.2 General Description of EUT

| Product Name: | Fetal Monitor | | | |
|----------------------------------|-------------------------------|---|--|--|
| Model No.(EUT): | JPD-300E | | | |
| Trade mark: | JUMPER | $(\mathcal{L}_{\mathcal{L}_{\mathcal{L}}})$ $(\mathcal{L}_{\mathcal{L}_{\mathcal{L}}})$ $(\mathcal{L}_{\mathcal{L}_{\mathcal{L}}})$ | | |
| EUT Supports Radios application: | BT 4.1 Single | mode, 2402MHz-2480MHz | | |
| Power Supply: | Medical Adapter | Model:LXCP12-012100DEH, Input:100-240V~50/60Hz,0.5A, Output:12.0V 1.0A | | |
| (6,) | Battery: 3.7V | 3000mAh | | |
| Firmware version of the sample: | M1_V1.0(man | ufacturer declare) | | |
| Hardware version of the sample: | 3000R0(manufacturer declare) | | | |
| Sample Received Date: | Jul. 02, 2018 | | | |
| Sample tested Date: | Aug. 13, 2018 | to Fed. 19, 2019 | | |

6.3 Product Specification subjective to this standard

| Operation Frequency: | 2402MHz~2480MHz | (57) |
|-----------------------|--|------|
| Bluetooth Version: | 4.1 | |
| Modulation Technique: | DSSS | |
| Modulation Type: | GFSK | -0- |
| Number of Channel: | 40 | |
| Sample Type: | Portable production | |
| Test power grade: | N/A | |
| Test software of EUT: | nRFgo Studio.exe(manufacturer declare) | |
| Antenna Type: | PCB Antenna | (1) |
| Antenna Gain: | 0dBi | |
| Test Voltage: | AC 120V, 60Hz, DC 3.7V by Battery | |













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| Operation F | requency eac | h of channe | 1 | (C). | / | (6) | / |
|-------------|--------------|-------------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 11 | 2422MHz | 21 | 2442MHz | 31 | 2462MHz |
| 2 | 2404MHz | 12 | 2424MHz | 22 | 2444MHz | 32 | 2464MHz |
| 3 | 2406MHz | 13 | 2426MHz | 23 | 2446MHz | 33 | 2466MHz |
| 4 | 2408MHz | 14 | 2428MHz | 24 | 2448MHz | 34 | 2468MHz |
| 5 | 2410MHz | 15 | 2430MHz | 25 | 2450MHz | 35 | 2470MHz |
| 6 | 2412MHz | 16 | 2432MHz | 26 | 2452MHz | 36 | 2472MHz |
| 7 | 2414MHz | 17 | 2434MHz | 27 | 2454MHz | 37 | 2474MHz |
| 8 | 2416MHz | 18 | 2436MHz | 28 | 2456MHz | 38 | 2476MHz |
| 9 | 2418MHz | 19 | 2438MHz | 29 | 2458MHz | 39 | 2478MHz |
| 10 | 2420MHz | 20 | 2440MHz | 30 | 2460MHz | 40 | 2480MHz |

6.4 Description of Support Units

The EUT has been tested independently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.







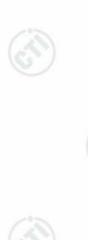




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6.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|---------------------|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ |
| 2 RF power, conduct | DE nover conducted | 0.46dB (30MHz-1GHz) |
| | RF power, conducted | 0.55dB (1GHz-18GHz) |
| 3 Radiated Spu | Dadiated Spurious emission test | 4.3dB (30MHz-1GHz) |
| | Radiated Spurious emission test | 4.5dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.5dB (9kHz to 150kHz) |
| 4 | Conduction emission | 3.1dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 3.8% |
| 7 | DC power voltages | 0.026% |























































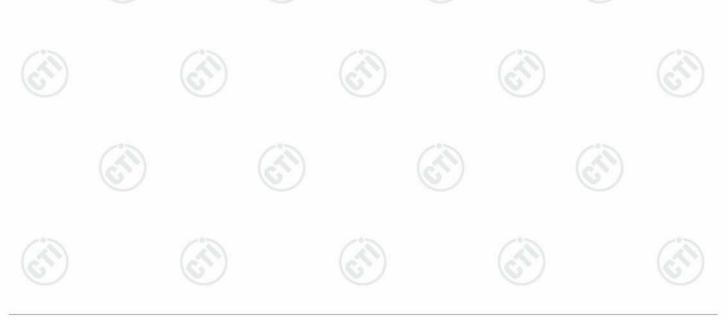




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7 Equipment List

| RF test system | | | | | | |
|--|-------------------|----------------------------------|------------------|---------------------------|-------------------------------|--|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 | |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 03-13-2018 | 03-12-2019 | |
| Signal Generator | Keysight | N5182B | MY53051549 | 03-13-2018 | 03-12-2019 | |
| High-pass filter | Sinoscite | FL3CX03WG1 8NM12-0398- 002 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 | |
| High-pass filter | MICRO- TRONICS | SPA-F-63029-4 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 | |
| DC Power | Keysight | E3642A | MY54426035 | 03-13-2018 | 03-12-2019 | |
| PC-1 | Lenovo | R4960d | | 03-13-2018 | 03-12-2019 | |
| BT&WI-FI Automatic control | R&S | OSP120 | 101374 | 03-13-2018 | 03-12-2019 | |
| RF control unit | JS Tonscend | JS0806-2 | 15860006 | 03-13-2018 | 03-12-2019 | |
| RF control unit | JS Tonscend | JS0806-1 | 15860004 | 03-13-2018 | 03-12-2019 | |
| RF control unit | JS Tonscend | JS0806-4 | 158060007 | 03-13-2018 | 03-12-2019 | |
| BT&WI-FI Automatic test software | JS Tonscend | JS1120-2 | | 03-13-2018 | 03-12-2019 | |
| Temperature/ Humidity Indicator | biaozhi | HM10 | 1804186 | 10-13-2017 10-12-2018 | 10-12-2018 10-11-2019 | |



 $Hot line; 400-6788-333 \\ www.cti-cert.com \\ E-mail: info@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: call: 0755-33681700 \\ Complaint E-mail: complaint call: 0755-33681700 \\ Complaint E-mail: 0755-33681700 \\ Complaint E-mail: 0755-33681700 \\ Complaint E-mail: 0755-33681700 \\ Com$









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|------|----|-------|--|
|------|----|-------|--|

| | (| Conducted dist | urbance Tes | st | |
|---------------------------------------|--------------|-----------------------------|------------------|---------------------------|-------------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver | R&S | ESCI | 100435 | 05-25-2018 | 05-24-2019 |
| Temperature/ Humidity Indicator | Defu | TH128 | 1 | 07-02-2018 | 07-01-2019 |
| Communication test set | Agilent | E5515C | GB47050 534 | 03-16-2018 | 03-15-2019 |
| Communication test set | R&S | CMW500 | 152394 | 03-16-2018 | 03-15-2019 |
| LISN | R&S | ENV216 | 100098 | 05-10-2018 | 05-10-2019 |
| LISN | schwarzbeck | NNLK8121 | 8121-529 | 05-10-2018 | 05-10-2019 |
| Voltage Probe | R&S | ESH2-Z3 0299.7810.5 6 | 100042 | 06-13-2017 | 06-11-2020 |
| Current Probe | R&S | EZ-17 816.2063.03 | 100106 | 05-30-2018 | 05-29-2019 |
| ISN | TESEQ | ISN T800 | 30297 | 02-06-2018 02-05-2019 | 02-05-2019 02-04-2020 |
| Barometer | changchun | DYM3 | 1188 | 07-02-2018 | 07-01-2019 |























































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| | 3M S | Semi/full-anec | hoic Chamber | | |
|--|---------------------|----------------------------------|------------------|---------------------------|------------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | | 06-04-2016 | 06-03-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-401 | 12-22-2017 12-21-2018 | 12-21-2018 12-20-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-618 | 07-30-2018 | 07-29-2019 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 08-22-2017 08-21-2018 | 08-21-2018 08-20-2019 |
| Microwave Preamplifier | Tonscend | EMC05184 5SE | 980380 | 01-19-2018 01-18-2019 | 01-18-2019 01-17-2020 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1869 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS- LINDGREN | 3117 | 00057410 | 06-05-2018 | 06-03-2021 |
| Double ridge horn antenna | A.H.SYSTEMS | SAS-574 | 6042 | 06-05-2018 | 06-04-2021 |
| Pre-amplifier | A.H.SYSTEMS | PAP-1840- 60 | 6041 | 06-05-2018 | 06-04-2021 |
| Loop Antenna | ETS | 6502 | 00071730 | 06-22-2017 | 06-21-2019 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 05-11-2018 | 05-10-2019 |
| Receiver | R&S | ESCI | 100435 | 05-25-2018 | 05-24-2019 |
| Multi device | | NCD/070/1 | .00100 | 01-10-2018 | 01-09-2019 |
| Controller | maturo | 0711112 | (/ (| 01-09-2019 | 01-08-2020 |
| LISN | schwarzbeck | NNBM8125 | 81251547 | 05-11-2018 | 05-10-2019 |
| | | | | | |
| LISN | schwarzbeck | NNBM8125 | 81251548 | 05-11-2018 | 05-10-2019 |
| Signal Generator | Agilent | E4438C | MY45095744 | 03-13-2018 | 03-12-2019 |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Temperature/ Humidity Indicator | Shanghai qixiang | HM10 | 1804298 | 10-13-2017 10-12-2018 | 10-12-2018 10-11-2019 |
| Communication test set | Agilent | E5515C | GB47050534 | 03-16-2018 | 03-15-2019 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| Communication test set | R&S | CMW500 | 104466 | 02-05-2018 02-04-2019 | 02-04-2019 02-03-2020 |
| High-pass filter | Sinoscite | FL3CX03W G18NM12- 0398-002 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| High-pass filter | MICRO- TRONICS | SPA-F- 63029-4 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01C A09CL12- 0395-001 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01C A08CL12- 0393-001 | (0) | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02C A04CL12- 0396-002 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02C A03CL12- 0394-001 | | 01-10-2018 01-09-2019 | 01-09-2019 01-08-2020 |





8 Radio Technical Requirements Specification

Reference documents for testing:

| | No. | Identity | Document Title |
|---|-----|------------------|---|
| | 1 | FCC Part15C | Subpart C-Intentional Radiators |
| ١ | 2 | ANSI C63.10-2013 | American National Standard for Testing Unlicesed Wireless Devices |

Test Results List:

| 00t 1100anto =10ti | | | | |
|--------------------------------------|-------------|---|---------|-------------|
| Test Requirement | Test method | Test item | Verdict | Note |
| Part15C Section 15.247 (a)(2) | ANSI C63.10 | 6dB Occupied Bandwidth | PASS | Appendix A) |
| Part15C Section 15.247 (b)(3) | ANSI C63.10 | Conducted Peak Output Power | PASS | Appendix B) |
| Part15C Section 15.247(d) | ANSI C63.10 | Band-edge for RF Conducted Emissions | PASS | Appendix C) |
| Part15C Section 15.247(d) | ANSI C63.10 | RF Conducted Spurious Emissions | PASS | Appendix D) |
| Part15C Section 15.247 (e) | ANSI C63.10 | Power Spectral Density | PASS | Appendix E) |
| Part15C Section 15.203/15.247 (c) | ANSI C63.10 | Antenna Requirement | PASS | Appendix F) |
| Part15C Section 15.207 | ANSI C63.10 | AC Power Line Conducted Emission | PASS | Appendix G) |
| Part15C Section 15.205/15.209 | ANSI C63.10 | Restricted bands around fundamental frequency (Radiated Emission) | PASS | Appendix H) |
| Part15C Section 15.205/15.209 | ANSI C63.10 | Radiated Spurious Emissions | PASS | Appendix I) |



















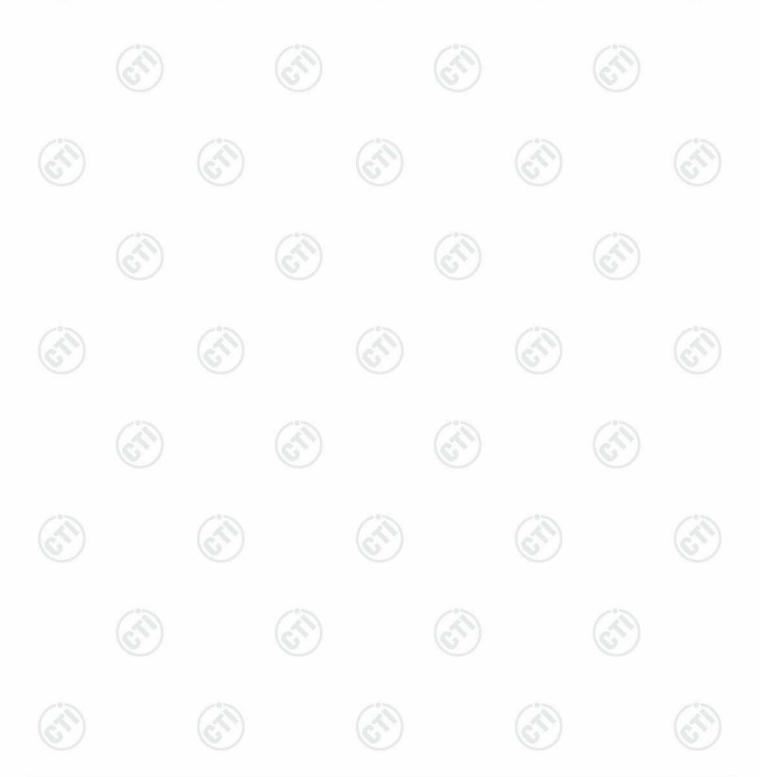




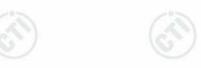
Appendix A): 6dB Occupied Bandwidth

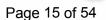
Test Result

| | | The state of the s | | to the second second | |
|------|---------|--|--------------|----------------------|----------|
| Mode | Channel | 6dB Bandwidth [MHz] | 99% OBW[MHz] | Verdict | Remark |
| BLE | LCH | 0.6868 | 1.5014 | PASS | |
| BLE | MCH | 0.6718 | 1.3122 | PASS | Peak |
| BLE | НСН | 0.6862 | 1.2635 | PASS | detector |









Test Graphs

Report No.: EED32K00171701



















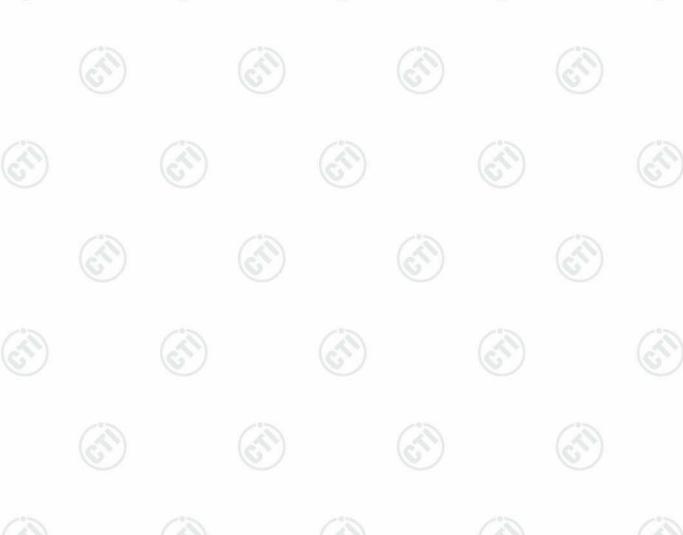


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Appendix B): Conducted Peak Output Power

Test Result

| 5.700 | 3.300 | | |
|-------|---------|-------------------------|---------|
| Mode | Channel | Conduct Peak Power[dBm] | Verdict |
| BLE | LCH | -3.335 | PASS |
| BLE | MCH | -3.673 | PASS |
| BLE | НСН | -4.715 | PASS |































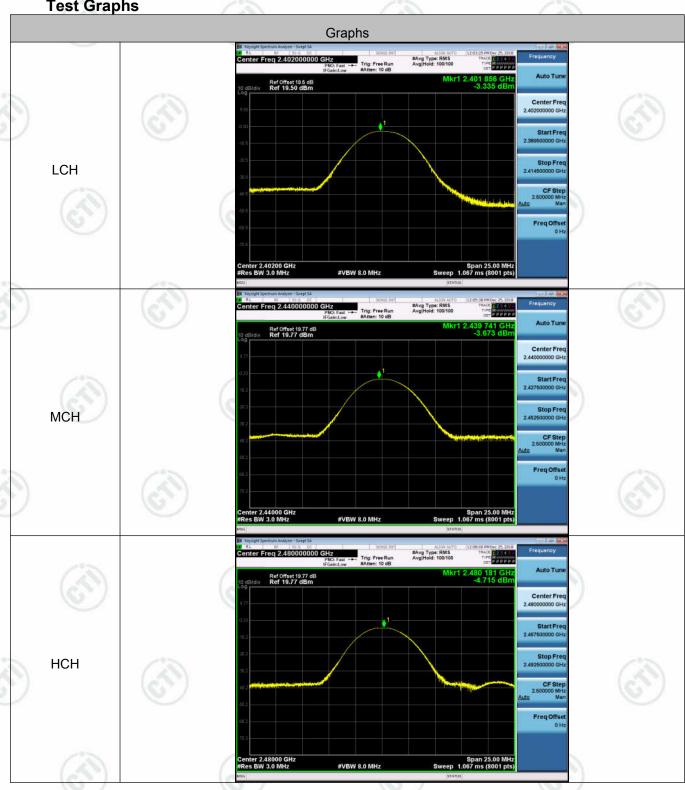






Test Graphs

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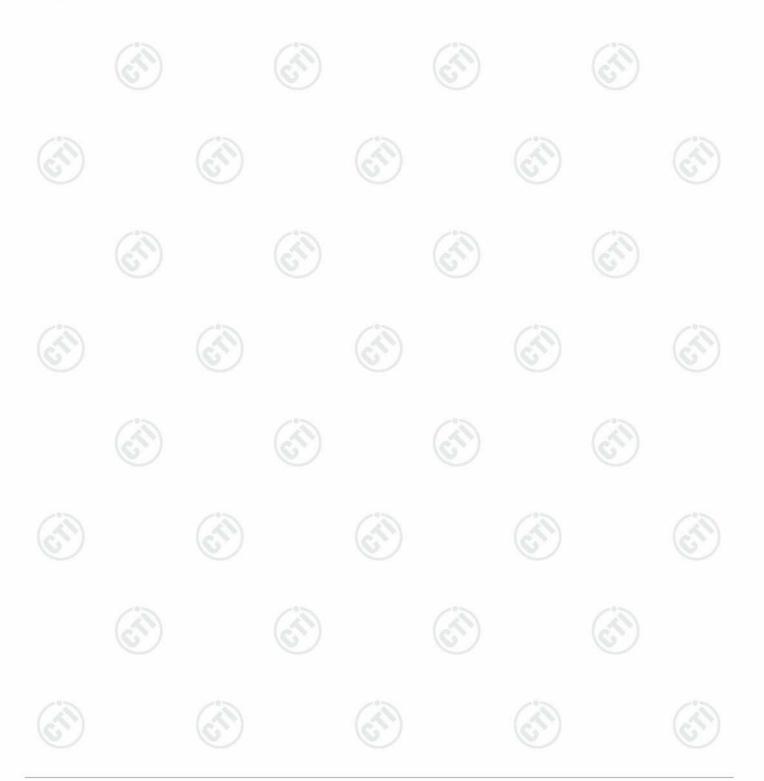




Appendix C): Band-edge for RF Conducted Emissions

Result Table

| | Mode | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|---|------|---------|--------------------|-----------------------------|-------------|---------|
| 0 | BLE | LCH | -3.281 | -56.270 | -23.28 | PASS |
| 9 | BLE | нсн | -4.580 | -41.402 | -24.58 | PASS |







Test Graphs

Report No.: EED32K00171701



































(cii)



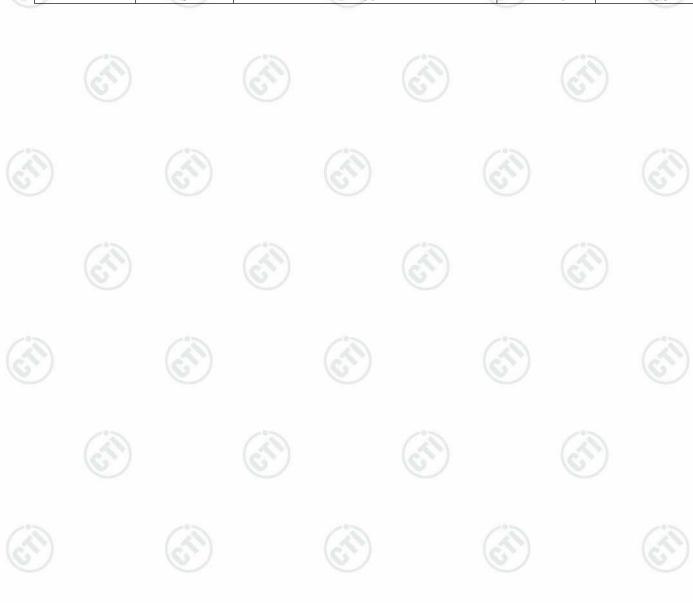


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Appendix D): RF Conducted Spurious Emissions

Result Table

| The second second | | | | |
|-------------------|---------|------------|--------------------------------------|---------|
| Mode | Channel | Pref [dBm] | Puw[dBm] | Verdict |
| BLE | LCH | -3.455 | <limit< td=""><td>PASS</td></limit<> | PASS |
| BLE | MCH | -3.818 | <limit< td=""><td>PASS</td></limit<> | PASS |
| BLE | нсн | -4.862 | <limit< td=""><td>PASS</td></limit<> | PASS |









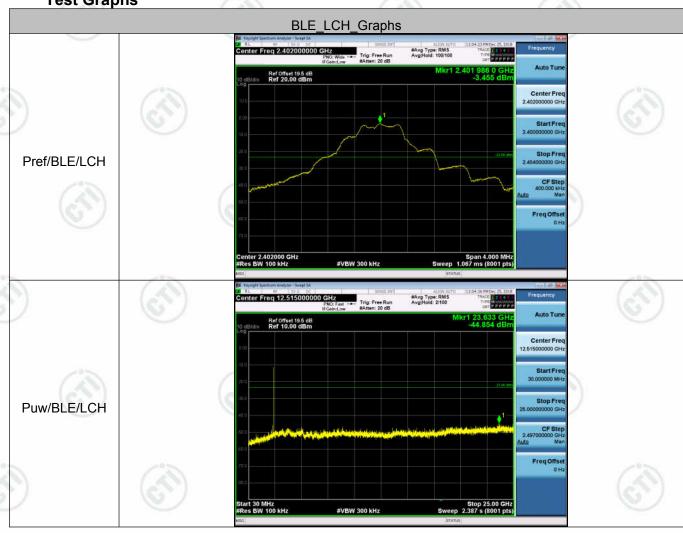






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Test Graphs



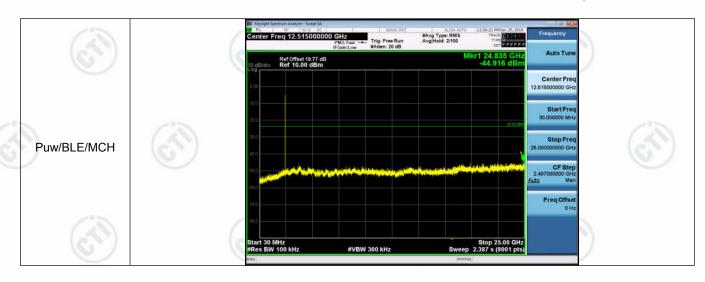








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Appendix E): Power Spectral Density

Result Table

| Mode | Channel | PSD [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|------|---------|----------------|---------------------|---------|
| BLE | LCH | -19.148 | 8 | PASS |
| BLE | MCH | -17.462 | 8 | PASS |
| BLE | нсн | -18.808 | 8 | PASS |









































































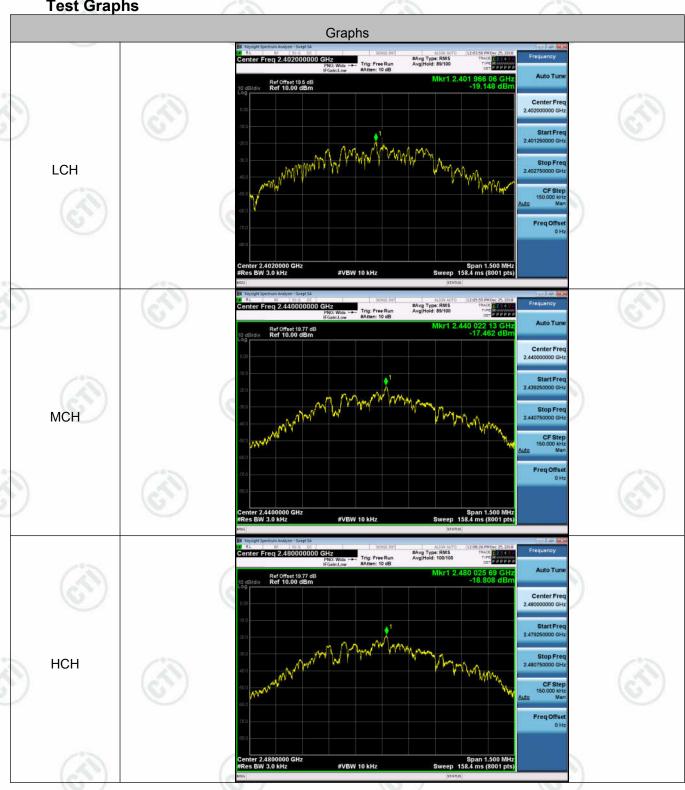






Test Graphs

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Appendix F): Antenna Requirement

15.203 requirement:

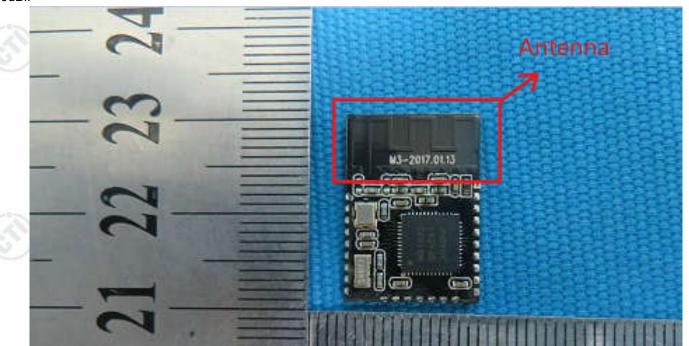
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.













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Appendix G): AC Power Line Conducted Emission

Test Procedure: Test frequency range :150KHz-30MHz

- 1)The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Limit:

| [| Limit (c | dΒμV) |
|-----------------------|------------|-----------|
| Frequency range (MHz) | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

NOTE: The lower limit is applicable at the transition frequency

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.































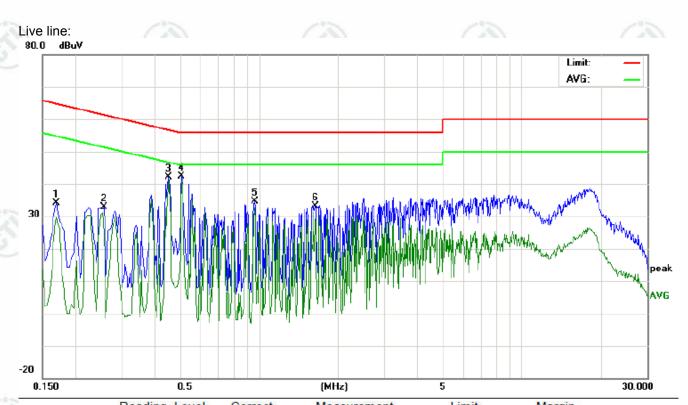




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Product : Fetal Monitor Model/Type reference : JPD-300E (The host)

Temperature : 23° **Humidity** : 55%



| | No. | Freq. | | ding_Le dBuV) | vel | Factor | ľ | (dBuV) | | | nit uV) | | rgin dB) | | |
|---|-----|--------|-------|------------------|-------|--------|-------|--------|-------|-------|------------|--------|-------------|-----|---------|
| | | MHz | Peak | QP | AVG | dB | peak | QP | AVG | QP | AVG | QP | AVG | P/F | Comment |
| - | 1 | 0.1700 | 24.14 | 21.32 | 19.83 | 9.91 | 34.05 | 31.23 | 29.74 | 64.96 | 54.96 | -33.73 | -25.22 | Р | |
| - | 2 | 0.2540 | 22.40 | 19.37 | 21.07 | 9.96 | 32.36 | 29.33 | 31.03 | 61.62 | 51.62 | -32.29 | -20.59 | Р | |
| | 3 | 0.4540 | 32.35 | 28.34 | 31.00 | 9.89 | 42.24 | 38.23 | 40.89 | 56.80 | 46.80 | -18.57 | -5.91 | Р | |
| _ | 4 | 0.5100 | 32.52 | 29.24 | 31.06 | 9.91 | 42.43 | 39.15 | 40.97 | 56.00 | 46.00 | -16.85 | -5.03 | P | |
| | 5 | 0.9660 | 24.78 | 21.54 | 22.75 | 9.81 | 34.59 | 31.35 | 32.56 | 56.00 | 46.00 | -24.65 | -13.44 | Р | |
| | 6 | 1.6180 | 23.36 | 20.27 | 21.63 | 9.75 | 33.11 | 30.02 | 31.38 | 56.00 | 46.00 | -25.98 | -14.62 | Р | |





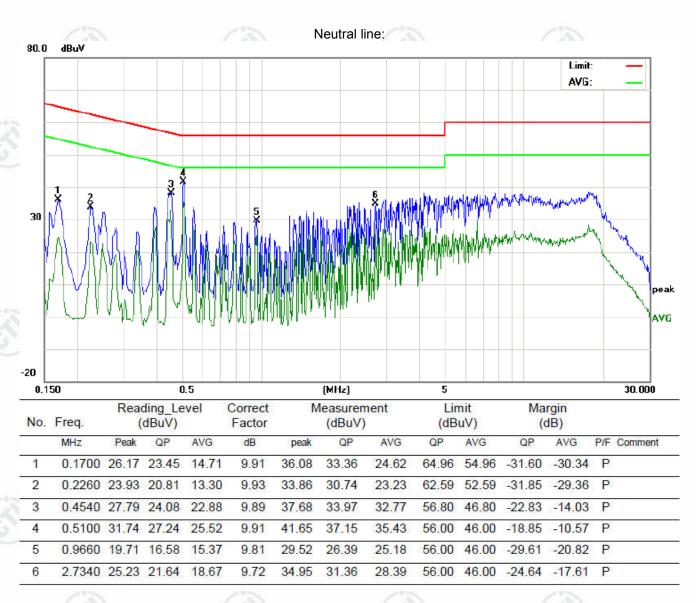












Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.













Appendix H): Restricted bands around fundamental frequency (Radiated)

| (Radiated) | | | | | | |
|-----------------|--|--|---|---|--|--------------------------|
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark | |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak | |
| | Ab 2112 4 0115 | Peak | 1MHz | 3MHz | Peak | 105 |
| | Above 1GHz | Peak | 1MHz | 10Hz | Average | |
| Test Procedure: | Below 1GHz test procedure. a. The EUT was placed of at a 3 meter semi-aneous determine the position. b. The EUT was set 3 mes was mounted on the to c. The antenna height is determine the maximular polarizations of the antenna was turned from 0 degree. The test-receiver systems and below the antenna was turned from 1 degree. The test-receiver systems and width with Maximum f. Place a marker at the semi-aneous force of the semi-aneous force o | ure as below: on the top of a rotal choic camber. The of the highest radieters away from the op of a variable-heil varied from one min value of the field tenna are set to minission, the EUT varies to 360 degreem was set to Peal aum Hold Mode. | ting table table wa iation. e interfere to fo d strengtrake the myas arrangmeter to es to find k Detect F | e 0.8 meters rotated 3 ence-receinna tower. ur meters n. Both horneasurement ged to its v. 4 meters at the maxin Function a | rs above the gas of the growth | , whice ound the ertical |
| | frequency to show con bands. Save the spect for lowest and highest | npliance. Also mea rum analyzer plot. | asure any | emissions | s in the restric | |
| | bands. Save the spect | npliance. Also mea rrum analyzer plot. channel ure as below: ve is the test site, on the change form to 1 meter and table towest channel, the ements are perform and found the X axis | change fr table 0.8 is 1.5 met e Highest ned in X, is | remissions for each por com Semi- meter to 1 fer). channel Y, Z axis p ng which i | Anechoic Ch. 5 meter(Abo | ambe |
| Limit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between about to fully Anechoic Channel 18GHz the distance is h. Test the EUT in the let. The radiation measure Transmitting mode, and | npliance. Also mea rrum analyzer plot. channel ure as below: ve is the test site, on the change form to 1 meter and table towest channel, the ements are perform and found the X axis | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | emissions for each posterior semi- meter to 1 ter). It channel Y, Z axis programming which is easured was a series of the control of the cont | Anechoic Ch. 5 meter(Abo | ambe |
| imit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between about to fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is high the fully Anechoic Channel 18GHz the distance is high the fully Anechoic Channel 18GHz the distance is high the fully Anechoic Channel 18GHz the fully Anechoic | npliance. Also mea rrum analyzer plot. channel ure as below: ve is the test site, on the change form to 1 meter and table towest channel, the ements are performed found the X axis tures until all freque | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | emissions for each portion Semi-meter to 1 ser). I channel Y, Z axis programming which is easured ware recommended. | Anechoic Ch. 5 meter(Abo | ambe |
| imit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between above to fully Anechoic Channel 18GHz the distance is horizontal to the fully Anechoic Channel 18GHz the distance is horizontal the full in the left in the radiation measured Transmitting mode, and jour Repeat above procedure. Frequency | npliance. Also meaturum analyzer plot. channel ure as below: ve is the test site, on the change form of the channel, the ements are performed found the X axis ures until all freque | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | remissions for each portion Semi-meter to 1 ter). The channel Y, Z axis programming which is easured was red w | Anechoic Ch. 5 meter (Abo | ambe |
| imit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between above to fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is how the fully Anechoic Channel 18GHz the distance is here. The fully Anechoic Channel 18GHz the distance is here. The fully Anechoic Channel 18GHz the distance is here. The fully Anechoic Channel 18GHz the distance is here. The fully Anechoic Channel 18GHz the fully Anechoic Channel | npliance. Also mean analyzer plot. channel ure as below: ve is the test site, on the change form in the content of the channel, the content are performed found the X axis the content all freques Limit (dBµV/m 40.0) | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | emissions or each por com Semi- meter to 1 ter). channel Y, Z axis p ng which i easured wa Rei Quasi-pe | Anechoic Ch. S meter (About the substitution of the substitution | ambe |
| Limit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between above to fully Anechoic Channel 18GHz the distance is horizontal in the left. The radiation measure Transmitting mode, and jour procedured in the left. The requency and the same statement of the | npliance. Also mean analyzer plot. channel ure as below: ve is the test site, on the change form the change form the channel, the contents are performed found the X axis the contents are performed found the X axis the channel all freques the cha | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | remissions for each por each each each each each each each each | Anechoic Ch. 5 meter(Aboositioning for tis worse cases complete. mark eak Value eak Value | ambe |
| imit: | bands. Save the spect for lowest and highest Above 1GHz test proceding. Different between above to fully Anechoic Channel 18GHz the distance is horizontal in the left. The radiation measure Transmitting mode, and journal in Repeat above procedum Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz | npliance. Also mean analyzer plot. channel ure as below: ve is the test site, on the change form of the channel, the channel are performed found the X axis the channel all freques the channel all | change fr table 0.8 is 1.5 met e Highest ned in X, is positioni | remissions for each por each each each each each each each each | Anechoic Ch. 5 meter (Above Consitioning for t is worse cases complete. mark eak Value eak Value eak Value | ambe |

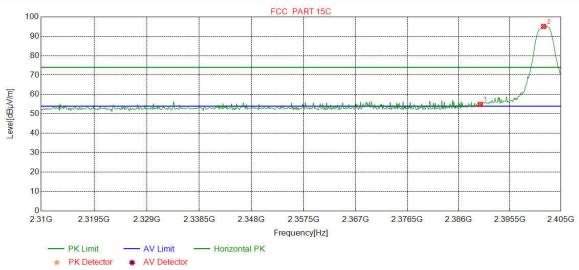




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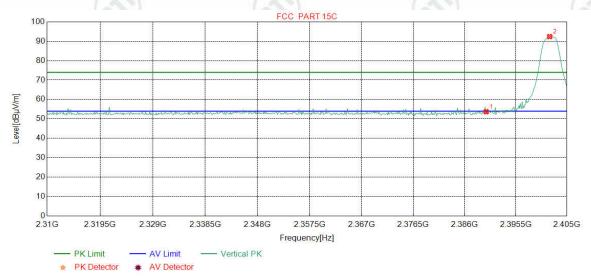
Test plot as follows:

| Mode: | BLE GFSK Transmitting | Channel: | 2402 |
|---------|-----------------------|----------|------|
| Remark: | Peak | | |



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|----------------|--------|------------|
| 1 | 2390.0000 | 32.25 | 13.37 | -42.44 | 51.68 | 54.86 | 74.00 | 19.14 | Pass | Horizontal |
| 2 | 2401.7897 | 32.26 | 13.31 | -42.43 | 91.94 | 95.08 | 74.00 | -21.08 | Pass | Horizontal |

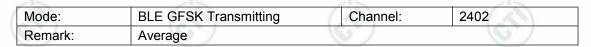
| Mode: | BLE GFSK Transmitting | Channel: | 2402 |
|---------|-----------------------|----------|------|
| Remark: | Peak | 75% | |

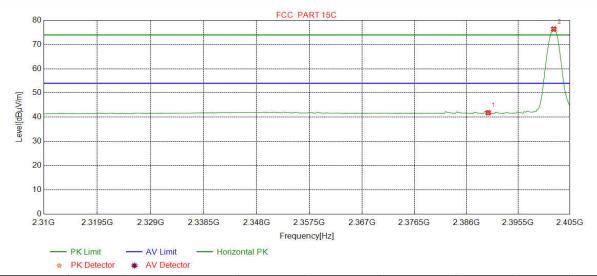


| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|----------------|--------|----------|
| 1 | 2390.0000 | 32.25 | 13.37 | -42.44 | 50.51 | 53.69 | 74.00 | 20.31 | Pass | Vertical |
| 2 | 2401.7897 | 32.26 | 13.31 | -42.43 | 89.29 | 92.43 | 74.00 | -18.43 | Pass | Vertical |



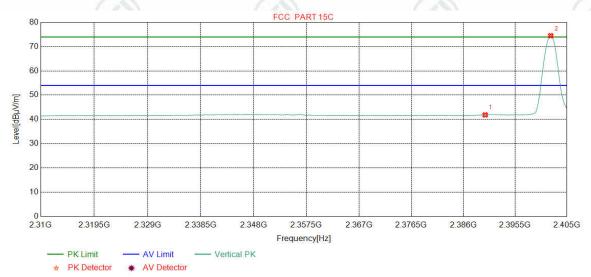
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| | NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|----------------|--------|------------|
| | 1 | 2390.0000 | 32.25 | 13.37 | -42.44 | 38.64 | 41.82 | 54.00 | 12.18 | Pass | Horizontal |
| Ī | 2 | 2402.0275 | 32.26 | 13.31 | -42.43 | 73.26 | 76.40 | 54.00 | -22.40 | Pass | Horizontal |

| Mode: | BLE GFSK Transmitting | Channel: | 2402 |
|---------|-----------------------|----------|------|
| Remark: | Average | | |

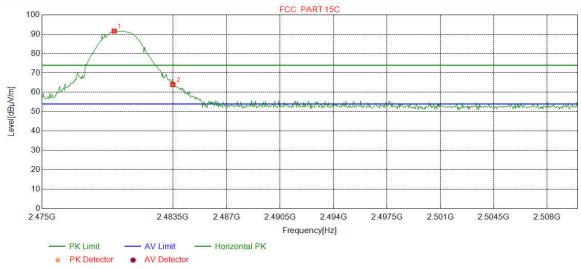


| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1 | 2390.0000 | 32.25 | 13.37 | -42.44 | 38.66 | 41.84 | 54.00 | 12.16 | Pass | Vertical |
| 2 | 2402.0275 | 32.26 | 13.31 | -42.43 | 71.37 | 74.51 | 54.00 | -20.51 | Pass | Vertical |



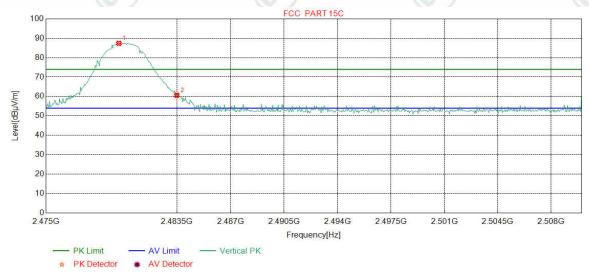
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| Mode: | BLE GFSK Transmitting | Channel: | 2480 |
|---------|-----------------------|----------|------|
| Remark: | Peak | | |



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|----------------|--------|------------|
| 1 | 2479.6871 | 32.37 | 13.39 | -42.39 | 88.27 | 91.64 | 74.00 | -17.64 | Pass | Horizontal |
| 2 | 2483.5000 | 32.38 | 13.38 | -42.40 | 60.66 | 64.02 | 74.00 | 9.98 | Pass | Horizontal |

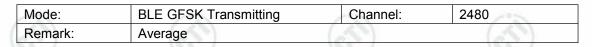
| Mode: | BLE GFSK Transmitting | Channel: | 2480 |
|---------|-----------------------|----------|------|
| Remark: | Peak | | |

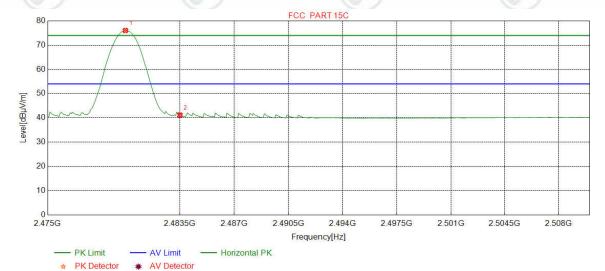


| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|
| 1 | 2479.7309 | 32.37 | 13.39 | -42.39 | 84.02 | 87.39 | 74.00 | -13.39 | Pass | Vertical |
| 2 | 2483.5000 | 32.38 | 13.38 | -42.40 | 57.27 | 60.63 | 74.00 | 13.37 | Pass | Vertical |



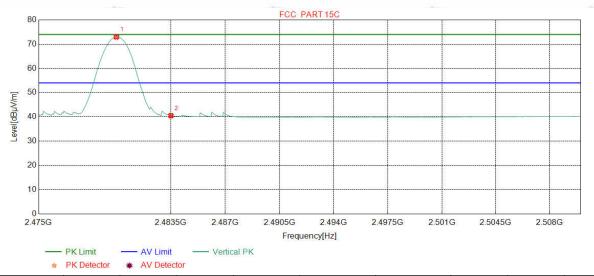
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| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|------------|
| 1 | 2479.9937 | 32.37 | 13.39 | -42.39 | 72.68 | 76.05 | 54.00 | -22.05 | Pass | Horizontal |
| 2 | 2483.5000 | 32.38 | 13.38 | -42.40 | 37.78 | 41.14 | 54.00 | 12.86 | Pass | Horizontal |

| Mode: | BLE GFSK Transmitting | Channel: | 2480 |
|---------|-----------------------|----------|------|
| Remark: | Average | | |



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|----------------|--------|----------|
| 1 | 2479.9937 | 32.37 | 13.39 | -42.39 | 69.57 | 72.94 | 54.00 | -18.94 | Pass | Vertical |
| 2 | 2483.5000 | 32.38 | 13.38 | -42.40 | 37.15 | 40.51 | 54.00 | 13.49 | Pass | Vertical |

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor





Appendix I): Radiated Spurious Emissions

| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark | |
|-----------------|-------------------|------------|--------|--------|------------|--|
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak | |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average | |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak | |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average | |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak | |
| | Above 4011- | Peak | 1MHz | 3MHz | Peak | |
| (0, | Above 1GHz | Peak | 1MHz | 10Hz | Average | |

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- j. Repeat above procedures until all frequencies measured was complete.

| | | | • • | |
|---|------|---|-----|---|
| | - 11 | m | IIT | • |
| ш | -11 | ш | ш | |

| Frequency | Field strength (microvolt/meter) | Limit (dBµV/m) | Remark | Measurement distance (m) |
|-------------------|----------------------------------|-------------------|------------|--------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| 0.490MHz-1.705MHz | 24000/F(kHz) | - | 705 | 30 |
| 1.705MHz-30MHz | 30 | - | | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 500 | 54.0 | Average | 3 |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



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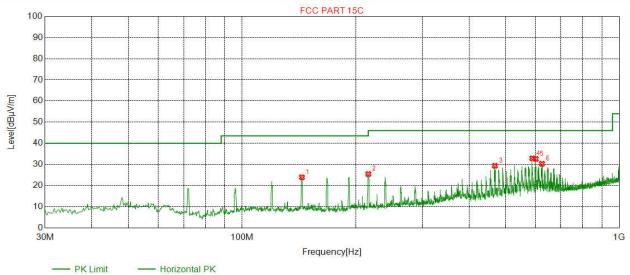
Radiated Spurious Emissions test Data:

Product : Fetal Monitor Model/Type reference JPD-300E (The host)

Temperature : 21°C Humidity 57%

Radiated Emission below 1GHz

| Mode: | GFSK Transmitting | Channel: | 2480 |
|---------|-------------------|----------|------|
| Remark: | QP | | |



| | PK Limit | 28 | - Horizontal PK |
|---|-------------|----|-----------------|
| * | PK Detector | * | AV Detector |

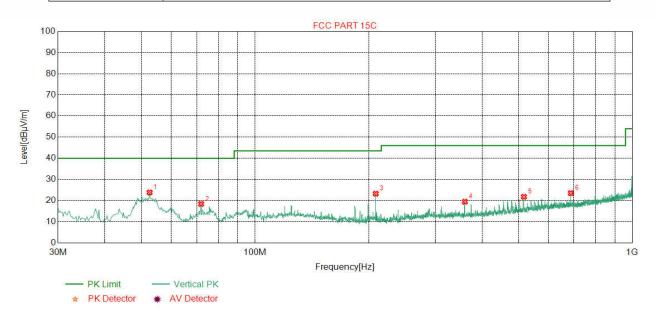
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|----|----------------|-----------------------|-----------------------|-----------------------|----------------|-------------------|-------------------|---------------|--------|------------|
| 1 | 144.0948 | 7.34 | 1.41 | -31.99 | 47.14 | 23.90 | 43.50 | 19.60 | Pass | Horizontal |
| 2 | 216.0832 | 11.32 | 1.75 | -31.95 | 44.31 | 25.43 | 46.00 | 20.57 | Pass | Horizontal |
| 3 | 467.9456 | 16.49 | 2.58 | -31.87 | 42.17 | 29.37 | 46.00 | 16.63 | Pass | Horizontal |
| 4 | 588.2497 | 18.76 | 2.90 | -31.93 | 43.14 | 32.87 | 46.00 | 13.13 | Pass | Horizontal |
| 5 | 600.6681 | 19.01 | 2.96 | -32.00 | 42.62 | 32.59 | 46.00 | 13.41 | Pass | Horizontal |
| 6 | 623.9528 | 19.19 | 2.97 | -31.98 | 40.12 | 30.30 | 46.00 | 15.70 | Pass | Horizontal |



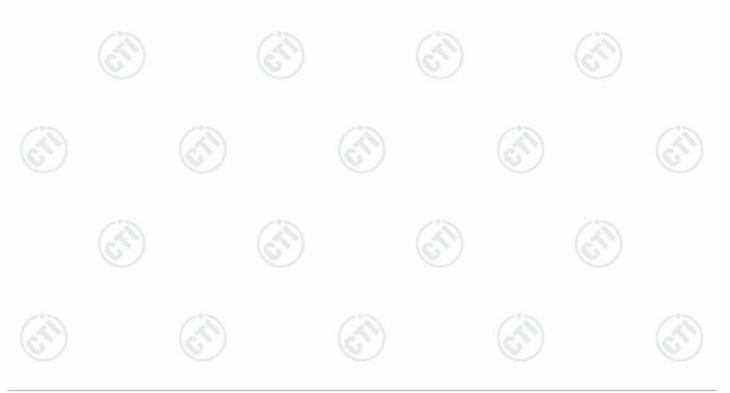


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| Mode: | GFSK Transmitting | Channel: | 2480 |
|---------|-------------------|----------|------|
| Remark: | QP | | |



| 1 | NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|----|----|----------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|---------------|--------|----------|
| | 1 | 52.5085 | 12.80 | 0.82 | -32.10 | 42.29 | 23.81 | 40.00 | 16.19 | Pass | Vertical |
| | 2 | 71.9124 | 8.64 | 0.97 | -32.05 | 40.83 | 18.39 | 40.00 | 21.61 | Pass | Vertical |
| a. | 3 | 208.9038 | 11.13 | 1.71 | -31.94 | 42.33 | 23.23 | 43.50 | 20.27 | Pass | Vertical |
| s. | 4 | 360.0600 | 14.52 | 2.27 | -31.84 | 34.49 | 19.44 | 46.00 | 26.56 | Pass | Vertical |
| 5 | 5 | 516.0672 | 17.32 | 2.71 | -31.93 | 33.67 | 21.77 | 46.00 | 24.23 | Pass | Vertical |
| | 6 | 687.5975 | 19.70 | 3.14 | -32.06 | 32.72 | 23.50 | 46.00 | 22.50 | Pass | Vertical |







Transmitter Emission above 1GHz

| Mode: | | BLE GFSK Transmitting | | | Channel: | | | | 2402 | | |
|-------|----------------|-----------------------|-----------------|-----------------------|----------------|-------------------|-------------------|---------------|--------|----------|---------|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1439.8440 | 28.34 | 2.94 | -42.68 | 51.95 | 40.55 | 74.00 | 33.45 | Pass | Н | Peak |
| 2 | 3079.9553 | 33.23 | 4.76 | -42.07 | 49.97 | 45.89 | 74.00 | 28.11 | Pass | Н | Peak |
| 3 | 4804.0000 | 34.50 | 4.55 | -40.66 | 49.66 | 48.05 | 74.00 | 25.95 | Pass | Н | Peak |
| 4 | 6066.9045 | 35.81 | 5.23 | -41.10 | 47.36 | 47.30 | 74.00 | 26.70 | Pass | Н | Peak |
| 5 | 7206.0000 | 36.31 | 5.81 | -41.02 | 56.61 | 57.71 | 74.00 | 16.29 | Pass | Н | Peak |
| 6 | 7206.0000 | 36.31 | 5.82 | -41.02 | 47.15 | 48.26 | 54.00 | 5.74 | Pass | Н | Average |
| 7 | 9608.0000 | 37.64 | 6.63 | -40.76 | 43.95 | 47.46 | 74.00 | 26.54 | Pass | Н | Peak |
| 8 | 1390.8391 | 28.29 | 2.89 | -42.69 | 55.73 | 44.22 | 74.00 | 29.78 | Pass | V | Peak |
| 9 | 3256.1171 | 33.30 | 4.47 | -41.97 | 50.63 | 46.43 | 74.00 | 27.57 | Pass | V | Peak |
| 10 | 4804.0000 | 34.50 | 4.55 | -40.66 | 51.33 | 49.72 | 74.00 | 24.28 | Pass | V | Peak |
| 11 | 6469.9313 | 35.89 | 5.50 | -41.18 | 47.44 | 47.65 | 74.00 | 26.35 | Pass | V | Peak |
| 12 | 7206.0000 | 36.31 | 5.81 | -41.02 | 55.71 | 56.81 | 74.00 | 17.19 | Pass | V | Peak |
| 13 | 7206.0000 | 36.31 | 5.82 | -41.02 | 46.82 | 47.93 | 54.00 | 6.07 | Pass | V | Average |
| 14 | 9608.0000 | 37.64 | 6.63 | -40.76 | 44.20 | 47.71 | 74.00 | 26.29 | Pass | V | Peak |

| | | | | 400 | | | | | | | |
|-------|----------------|-----------------------|-----------------|-----------------------|----------------|-------------------|-------------------|---------------|--------|----------|---------|
| Mode: | | BLE GFSK Transmitting | | | Channel: | | | | 2440 | | |
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1798.0798 | 30.37 | 3.32 | -42.72 | 58.88 | 49.85 | 74.00 | 24.15 | Pass | Н | Peak |
| 2 | 3438.7793 | 33.38 | 4.46 | -41.86 | 50.39 | 46.37 | 74.00 | 27.63 | Pass | Н | Peak |
| 3 | 4880.0000 | 34.50 | 4.80 | -40.60 | 49.22 | 47.92 | 74.00 | 26.08 | Pass | Н | Peak |
| 4 | 6402.3268 | 35.88 | 5.32 | -41.17 | 47.93 | 47.96 | 74.00 | 26.04 | Pass | Н | Peak |
| 5 | 7320.0000 | 36.42 | 5.85 | -40.92 | 53.19 | 54.54 | 74.00 | 19.46 | Pass | Н | Peak |
| 6 | 7320.0000 | 36.42 | 5.85 | -40.92 | 44.68 | 46.03 | 54.00 | 7.97 | Pass | Н | Average |
| 7 | 9760.0000 | 37.70 | 6.73 | -40.62 | 44.20 | 48.01 | 74.00 | 25.99 | Pass | Н | Peak |
| 8 | 1934.8935 | 31.27 | 3.42 | -42.64 | 51.70 | 43.75 | 74.00 | 30.25 | Pass | V | Peak |
| 9 | 3193.7129 | 33.28 | 4.64 | -42.01 | 50.45 | 46.36 | 74.00 | 27.64 | Pass | V | Peak |
| 10 | 4880.0000 | 34.50 | 4.80 | -40.60 | 50.19 | 48.89 | 74.00 | 25.11 | Pass | V | Peak |
| 11 | 6339.9227 | 35.87 | 5.46 | -41.16 | 47.31 | 47.48 | 74.00 | 26.52 | Pass | V | Peak |
| 12 | 7320.0000 | 36.42 | 5.85 | -40.92 | 51.92 | 53.27 | 74.00 | 20.73 | Pass | V | Peak |
| 13 | 7320.0000 | 36.42 | 5.85 | -40.92 | 42.67 | 44.02 | 54.00 | 9.98 | Pass | V | Average |
| 14 | 9760.0000 | 37.70 | 6.73 | -40.62 | 44.59 | 48.40 | 74.00 | 25.60 | Pass | V | Peak |











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CII





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| | 200 | | | | | J1870 | | | 20% | | |
|-------|----------------|-----------------------|-----------------|-----------------------|----------------|-------------------|-------------------|---------------|--------|----------|---------|
| Mode: | | BLE GFSK Transmitting | | | Channel: | | | 2480 | | | |
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1394.0394 | 28.29 | 2.89 | -42.68 | 52.96 | 41.46 | 74.00 | 32.54 | Pass | Н | Peak |
| 2 | 3215.8144 | 33.29 | 4.59 | -42.00 | 50.35 | 46.23 | 74.00 | 27.77 | Pass | Н | Peak |
| 3 | 4960.0000 | 34.50 | 4.82 | -40.53 | 48.72 | 47.51 | 74.00 | 26.49 | Pass | Н | Peak |
| 4 | 6311.9708 | 35.86 | 5.46 | -41.15 | 47.55 | 47.72 | 74.00 | 26.28 | Pass | Н | Peak |
| 5 | 7440.0000 | 36.54 | 5.85 | -40.82 | 52.96 | 54.53 | 74.00 | 19.47 | Pass | Н | Peak |
| 6 | 7440.0000 | 36.54 | 5.85 | -40.82 | 44.35 | 45.92 | 54.00 | 8.08 | Pass | Н | Average |
| 7 | 9920.0000 | 37.77 | 6.79 | -40.48 | 43.65 | 47.73 | 74.00 | 26.27 | Pass | Н | Peak |
| 8 | 1395.4395 | 28.30 | 2.89 | -42.69 | 53.82 | 42.32 | 74.00 | 31.68 | Pass | V | Peak |
| 9 | 4172.0281 | 34.04 | 4.50 | -40.83 | 46.25 | 43.96 | 74.00 | 30.04 | Pass | V | Peak |
| 10 | 4960.0000 | 34.50 | 4.82 | -40.53 | 48.51 | 47.30 | 74.00 | 26.70 | Pass | V | Peak |
| 11 | 6830.0553 | 36.03 | 5.55 | -41.18 | 46.13 | 46.53 | 74.00 | 27.47 | Pass | V | Peak |
| 12 | 7440.0000 | 36.54 | 5.85 | -40.82 | 49.10 | 50.67 | 74.00 | 23.33 | Pass | V | Peak |
| 13 | 9920.0000 | 37.77 | 6.79 | -40.48 | 41.72 | 45.80 | 74.00 | 28.20 | Pass | V | Peak |

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.











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PHOTOGRAPHS OF TEST SETUP

Test model No.: JPD-300E



Radiated spurious emission Test Setup-1(Below 30MHz)



Radiated spurious emission Test Setup-2(Below 1GHz)













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Radiated spurious emission Test Setup-3(Above 1GHz)



Conducted Emissions Test Setup



















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PHOTOGRAPHS OF EUT Constructional Details

Test model No.: JPD-300E



View of Product-1

The host



View of Product-2





















View of Product-3



View of Product-4





















View of Product-5



View of Product-6























View of Product-7





View of Product-8

















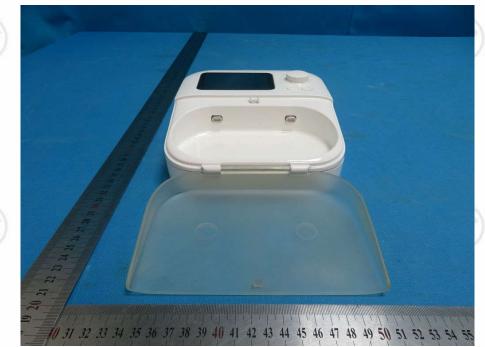












View of Product-9



View of Product-10













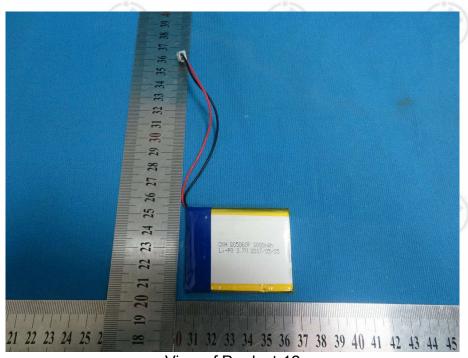








View of Product-11



View of Product-12









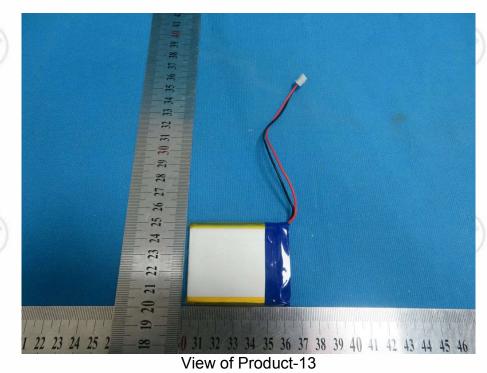
















View of Product-14













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View of Product-15



View of Product-16









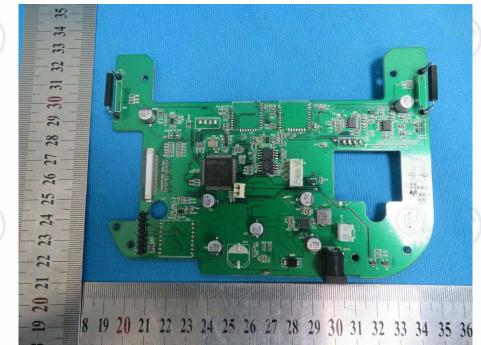












View of Product-17



View of Product-18





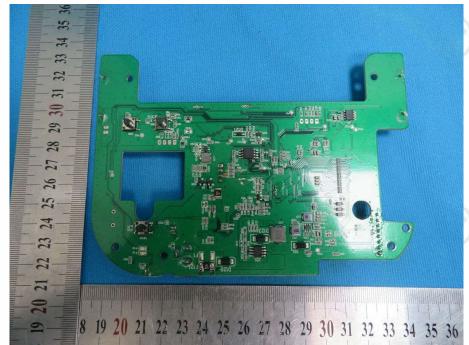




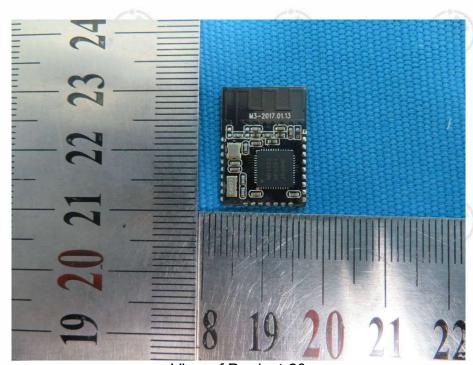




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View of Product-19



View of Product-20





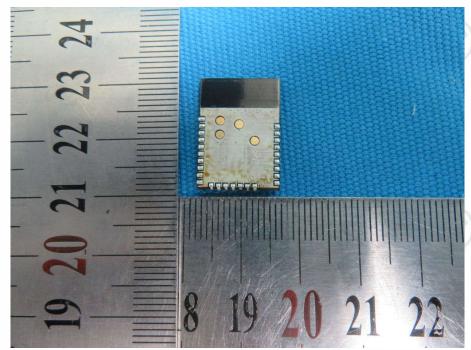








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View of Product-21



View of Product-22























View of Product-23





View of Product-24

















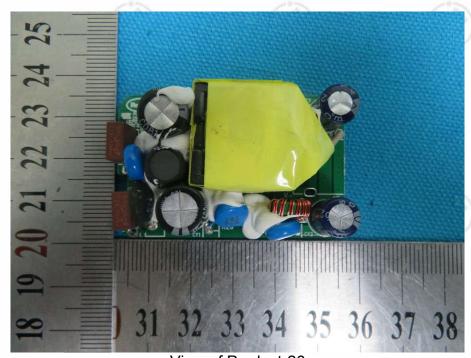




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View of Product-25



View of Product-26





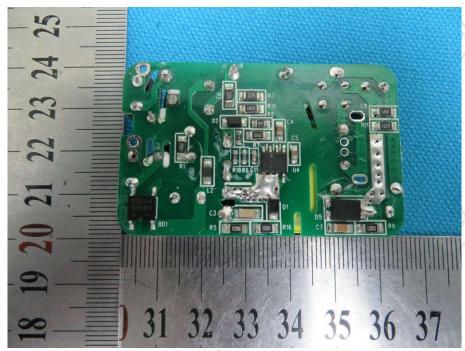








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View of Product-27

*** End of Report ***

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