| | | | | TIN | | | |
|-------------------------------------|---|---|------------------|-------------------|--|--|--|
| Report Number: 68.760.19.0789.03 | | | | | | | |
| | | | | | | | |
| | | | DODT | | | | |
| | | FCC - TEST RE | PORT | | | | |
| | | | | | | | |
| Report Number | : | 68.760.19.0789.03 | Date of Issue: | June 30, 2021 | | | |
| Model | : | Theragun Prime | | | | | |
| Product Type | : | Hand held Massager | | | | | |
| Applicant | : | Theragun, Inc. | | | | | |
| Address | : | 5100 Wilshire Blvd. Suite 200, Los Angeles CA 90048-5107, USA | | | | | |
| Manufacturer | : | Theragun, Inc. | | | | | |
| Address | : | 6100 Wilshire Blvd. Suite 200 |), Los Angeles C | A 90048-5107, USA | | | |
| | | | | | | | |
| Test Result | : | Positive | gative | | | | |
| | | | | | | | |
| Total pages including Appendices | : | 39 | | | | | |

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

| Company name: | TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, Nanshan District, Shenzhen City, 518052, P. R. China |
|----------------------------|--|
| FCC Designation Number: | CN5009 |
| FCC Registration No.: | 514049 |
| Telephone: Fax: | 86 755 8828 6998 86 755 8828 5299 |

3 Description of the Equipment under Test

| Product | Hand held Massager |
|----------------------------|---|
| Model no. | Theragun Prime |
| FCC ID: | 2AU6TPRIME-03 |
| Rated Input: | 100-240VAC, 50/60Hz, 0.8A (for adapter) 15VDC, 1.5A (for Hand held Massager) |
| RF Transmission Frequency: | 2402MHz-2480MHz |
| No. of Operated Channel: | 40 |
| Modulation: | GFSK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 1dBi |
| Description of the EUT: | The Equipment Under Test (EUT) is a Hand held Massager supports 2.4GHz |





4 Summary of Test Standards

| Test Standards | | | |
|-----------------------|-----------------------------------|--|--|
| FCC Part 15 Subpart C | PART 15 - RADIO FREQUENCY DEVICES | | |
| 10-1-2020 Edition | Subpart C - Intentional Radiators | | |

All the test methods were according to KDB558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10 (2013).

5 Summary of Test Results

| Technical Requirements | | | | | | |
|------------------------|--|-------|--------|-------------|------|-------------|
| FCC Part 15 Subpart C | | | | | | |
| Test Condition | | Dogoo | Test | Test Result | | |
| | | rayes | Site | Pass | Fail | N/A |
| §15.207 | Conducted emission AC power port | 10 | Site 1 | \boxtimes | | |
| §15.247 (b) (1) | Conducted peak output power | 13 | Site 1 | \boxtimes | | |
| §15.247(a)(1) | 20dB bandwidth | | | | | \boxtimes |
| §15.247(a)(1) | Carrier frequency separation | | | | | \boxtimes |
| §15.247(a)(1)(iii) | Number of hopping frequencies | | | | | \boxtimes |
| §15.247(a)(1)(iii) | Dwell Time | | | | | \boxtimes |
| §15.247(a)(2) | 6dB and 99% Occupied Bandwidth | 16 | Site 1 | \boxtimes | | |
| §15.247(e) | Power spectral density | 19 | Site 1 | \boxtimes | | |
| §15.247(d) | Spurious RF conducted emissions | 22 | Site 1 | \boxtimes | | |
| §15.247(d) | Band edge | 30 | Site 1 | | | |
| §15.247(d) & §15.209 | Spurious radiated emissions for transmitter | 33 | Site 1 | \boxtimes | | |
| §15.203 | Antenna requirement | See n | ote 1 | \boxtimes | | |

Remark: N/A=Not Applicable.

Note 1: The EUT uses a PCB antenna, which gain is 1dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AU6TPRIME-03 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment under Test

- - **Fulfills** the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

| Sample Received Date: | June 3, 2021 |
|-----------------------|--------------|
| Testing Start Date: | June 3, 2021 |
| Testing End Date: | June 9, 2021 |

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: Prepared by: TING (CHIA Dawi Xu

EMC Project Manager

γr

Myron Yu EMC Project Engineer

Tested by:

eny Ceri

Carry Cai EMC Test Engineer

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7 Test Setups

7.1 Radiated test setups

Below 1GHz



Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



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Auxiliary Equipment Used during Test:

| DESCRIPTION | MANUFACTURER | MODEL NO. | S/N |
|-------------|---|-----------|-----|
| AC ADAPTER | EDAC Power Electronics (Dongguan) Co., Ltd. | EA1023SAR | |
| AC ADAPTER | EDAC Power Electronics (Dongguan) Co., Ltd. | EA1023SAU | |

Test software information:

| Test Software Version | RF Test_V1.8 | |
|-----------------------|------------------|-------------|
| Modulation | Setting TX Power | Packet Type |
| GFSK | 0dBm | DH1 |

The system was configured to channel 0, 19, and 39 for the test.



9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. Both sides of AC line were checked for maximum conducted interference.
- 6. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limits

According to §15.207, conducted emissions limit as below:

| Frequency | QP Limit | AV Limit |
|-------------|----------|----------|
| MHz | dBµV | dBµV |
| 0.150-0.500 | 66-56* | 56-46* |
| 0.500-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Remarks for test data:

Level=Reading Level + Correction Factor Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



Product Type M/N Operating Condition Test Specification Test Voltage Comment Hand held Massager

- : Theragun Prime
- : Charging + transmitting
- : Power Line, Live
- : AC 120V/60Hz

÷

Tested with adapter EA1023SAR



| Frequency (MHz) | MaxPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|--------------------|-------------------|-------------------|-----------------|----------------|------|---------------|
| 0.158000 | 51.86 | () | 65.57 | 13.71 | L1 | 10.32 |
| 1.546000 | 37.07 | | 56.00 | 18.93 | L1 | 10.36 |
| 2.402000 | 37.68 | | 56.00 | 18.32 | L1 | 10.39 |
| 8.530000 | 42.80 | | 60.00 | 17.20 | L1 | 10.69 |
| 10.006000 | 41.06 | | 60.00 | 18.94 | L1 | 10.75 |
| 19.534000 | 42.45 | | 60.00 | 17.55 | L1 | 11.23 |



Product Type M/N Operating Condition Test Specification Test Voltage Comment Hand held Massager

- : Theragun Prime
- Charging + transmitting
- Power Line, Neutral
- : AC 120V/60Hz : Tested with ada

÷

:

Tested with adapter EA1023SAR



| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|--------------------|-------------------|-------------------|-----------------|----------------|------|---------------|
| 0.162000 | 50.80 | | 65.36 | 14.56 | Ν | 10.33 |
| 0.482000 | 39.86 | | 56.30 | 16.45 | Ν | 10.33 |
| 0.674000 | 41.30 | | 56.00 | 14.70 | Ν | 10.34 |
| 1.094000 | 41.47 | | 56.00 | 14.53 | Ν | 10.35 |
| 1.910000 | 41.81 | | 56.00 | 14.19 | Ν | 10.39 |
| 2.222000 | 42.34 | | 56.00 | 13.66 | Ν | 10.41 |



Product Type M/N Operating Condition Test Specification Test Voltage Comment

- Hand held Massager
- : Theragun Prime
- : Charging + transmitting
- : Power Line, Live
- : AC 120V/60Hz

:

:

Tested with adapter EA1023SAU



| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|--------------------|-------------------|-------------------|-----------------|----------------|------|---------------|
| 0.189500 | 59.08 | | 63.86 | 4.79 | L1 | 10.32 |
| 0.257500 | 56.56 | | 61.50 | 4.94 | L1 | 10.32 |
| 0.321500 | 52.39 | | 59.66 | 7.26 | L1 | 10.32 |
| 0.385500 | 48.76 | | 58.15 | 9.39 | L1 | 10.32 |
| 0.437500 | 47.88 | | 57.02 | 9.14 | L1 | 10.32 |
| 0.598000 | 43.04 | | 56.00 | 12.96 | L1 | 10.32 |

Final_Result

| 1.0 | | | | | | | |
|-----|-----------|-----------|---------|--------|--------|------|-------|
| | Frequency | QuasiPeak | Average | | Margin | Line | Corr. |
| | (IVITIZ) | (ασμν) | (ασμν) | (ασμν) | (ab) | | (ab) |
| | 0.189500 | | 35.35 | 54.06 | 18.71 | L1 | 10.31 |
| | 0.189500 | 52.25 | | 64.06 | 11.81 | L1 | 10.31 |
| | 0.257500 | | 33.38 | 51.51 | 18.13 | L1 | 10.32 |
| | 0.257500 | 49.36 | | 61.51 | 12.15 | L1 | 10.32 |
| | 0.321500 | | 28.22 | 49.67 | 21.45 | L1 | 10.32 |
| | 0.321500 | 43.83 | | 59.67 | 15.84 | L1 | 10.32 |
| | 0.385500 | | 24.67 | 48.16 | 23.49 | L1 | 10.32 |
| | 0.385500 | 41.68 | | 58.16 | 16.48 | L1 | 10.32 |
| | 0.437500 | | 24.65 | 47.11 | 22.46 | L1 | 10.32 |
| | 0.437500 | 41.08 | | 57.11 | 16.03 | L1 | 10.32 |



Product Type M/N **Operating Condition** Test Specification Test Voltage Comment

- Hand held Massager
- Theragun Prime
- Charging + transmitting ÷ :
 - Power Line, Neutral
- AC 120V/60Hz ÷ ÷
 - Tested with adapter EA1023SAU



| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|--------------------|-------------------|-------------------|-----------------|----------------|------|---------------|
| 0.194000 | 53.54 | | 63.86 | 10.33 | Ν | 10.33 |
| 0.273500 | 53.05 | | 61.12 | 8.06 | Ν | 10.33 |
| 0.334000 | 48.35 | | 59.35 | 11.00 | Ν | 10.33 |
| 0.394000 | 47.47 | | 57.98 | 10.51 | Ν | 10.33 |
| 0.482500 | 46.62 | | 56.37 | 9.75 | Ν | 10.33 |
| 0.826000 | 41.26 | | 56.00 | 14.74 | Ν | 10.35 |

Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) |
|--------------------|---------------------|-------------------|-----------------|----------------|------|---------------|
| 0.273500 | | 31.23 | 51.01 | 19.78 | Ν | 10.33 |
| 0.273500 | 48.67 | | 61.01 | 12.34 | Ν | 10.33 |
| 0.482500 | | 23.08 | 46.30 | 23.22 | Ν | 10.33 |
| 0.482500 | 42.49 | | 56.30 | 13.81 | Ν | 10.33 |

9.2 Conducted Peak output power

Test Method

- 1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement.
- Use the following spectrum analyzer settings: RBW > the 6dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW Sweep = auto, Detector function = peak, Trace = max hold.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Test Setup



Limits

According to §15.247 (b) (3), conducted AV output power limit as below:

| Frequency Range | Limit | Limit |
|-----------------|-------|-------|
| MHz | W | dBm |
| 2400-2483.5 | ≤1 | ≤30 |

Test result as below table:

| Frequency MHz | Output Power dBm | Result |
|-------------------------|---------------------|--------|
| Top channel 2402MHz | -2.61 | Pass |
| Middle channel 2440MHz | -2.65 | Pass |
| Bottom channel 2480MHz | -3.14 | Pass |

Test Graphs



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9.3 6dB and 99% bandwidth

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- Use the following spectrum analyzer settings: Set RBW ≥ 1% of the 99% bandwidth, VBW ≥ RBW.
 Sweep = auto, Detector function = peak, Trace = max hold
- 3. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

Limits

Limit [kHz]

≥500

Test results

| Test Mode | Channel (MHz) | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Limit (KHz) | Verdict |
|-----------|---------------|------------------------|---------------------------|-------------|---------|
| BLE | 2402 | 0.856 | 1.139 | ≥500 | PASS |
| BLE | 2440 | 0.860 | 1.143 | ≥500 | PASS |
| BLE | 2480 | 0.844 | 1.135 | ≥500 | PASS |



Test Graphs



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SUD

9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3*RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 3. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 4. Repeat above procedures until other frequencies measured were completed.

Limits

Limit [dBm/3KHz]

≤8

Test results

| Test Mode | Channel (MHz) | Result (dBm/3KHz) | Limit(dBm/3KHz) | Verdict |
|-----------|------------------|-------------------|-----------------|---------|
| BLE | 2402 | -20.03 | 8 | PASS |
| BLE | 2440 | -19.72 | 8 | PASS |
| BLE | 2480 | -20.30 | 8 | PASS |

Test Graphs



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9.5 Spurious RF conducted emissions

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- The level displayed must comply with the limit specified in this Section. Submit these plots. 4.
- Repeat above procedures until all frequencies measured were complete. 5.

Limit

| Frequency Range MHz | Limit (dBc) | | |
|------------------------|-------------|--|--|
| 30-25000 | -20 | | |

Test Result

| Test Mode | Antenna | Channel (MHz) | Freq Range (MHz) | Ref Level (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-----------|---------|------------------|---------------------|--------------------|-----------------|----------------|---------|
| | | | Reference | -4.39 | -4.39 | | PASS |
| | | 2402 | 30~1000 | | -68.17 | <=-24.39 | PASS |
| | | | 1000~26500 | | -52.53 | <=-24.39 | PASS |
| | | 2440 | Reference | -4.15 | -4.15 | | PASS |
| BLE_BT4.0 | Ant1 | | 30~1000 | | -68.07 | <=-24.15 | PASS |
| | | | 1000~26500 | | -52.21 | <=-24.15 | PASS |
| | | 2480 | Reference | -4.92 | -4.92 | | PASS |
| | | | 30~1000 | | -66.54 | <=-24.92 | PASS |
| | | | 1000~26500 | | -51.98 | <=-24.92 | PASS |

Test Graphs



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9.6 Band edge

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 4. The level displayed must comply with the limit specified in this Section.
- 5. Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limits

| Frequency Range MHz | Limit (dBc) | | |
|------------------------|-------------|--|--|
| 30-25000 | -20 | | |

Test results

| Test Mode | Ch Name | Channel (MHz) | Ref Level (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-----------|---------|---------------|-----------------|--------------|-------------|---------|
| BLE | Low | 2402 | -4.42 | -53.7 | <=-25.34 | PASS |
| BLE | High | 2480 | -4.92 | -55.9 | <=-25.67 | PASS |

Test Graphs

| | DLL_D14.0 | | | |
|--|---|--|---|--|
| Spectrum | | | Ē | |
| Ref Level 20.00 dBm | Offset 1.00 dB RBW | 100 kHz | (v) | |
| ■ Att 30 dB | SWT 246.5 µs 🖷 VBW | 300 kHz Mode Auto FFT | | |
| Count 300/300 | | | | |
| O TAK AIGM | | M1[1] | -4.42 dBm | |
| 10 d8m | | | 2.401730 GHz | |
| 10 000 | | M2[1] | -53.72 dBm | |
| 0 dBm | | | 2.400000 _{NGH} z | |
| -10 dBm | | | | |
| | | | | |
| -20 dBm | | | | |
| -30 dBm | | | | |
| | | | | |
| -40 dBm | | | | |
| -50 dBm | | | | |
| 60 d8m | | | M3 U | |
| and all all and a property of the second sec | maller most and them | amount for a service of the most of | while he was and the | |
| -70 dBm | | | | |
| | | | | |
| Start 2.3 GHz | | 691 pts | Stop 2.405 GHz | |
| Marker | Y-value V-m | Lue Eunction | Eunction Result | |
| M1 1 | 2.40173 GHz -4 | 42 dBm | Function Result | |
| M2 1 | 2.4 GHz -53 | 72 dBm | | |
| M3 1 M4 1 | 2.39 GHz -63 | 30 dBm 70 dBm | | |
| | | | CONTRACTOR AND | |
| | | | | |
| | | | | |
| Date: 22 II IN 2021 14:45:05 | | | | |
| Date: 22. JUN. 2021 14:45:05 | | | | |
| Date: 22.JUN.2021 14:45:05 | BLE BT4.0 | Ant1 High 248 | 30 | |
| Date: 22.JUN.2021 14:45:05 | BLE_BT4.0 | _Ant1_High_248 | 30 | |
| Date: 22 JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | 30 (\vec{\vec{v}}{\vec{v}}) | |
| Dete: 22 JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 (| |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | 30 (^m) | |
| Date: 22.JUN 2021 14:45:05 Spectrum Ref Level 20:00 dBm Att 30 dB Count 300/300 DF/F View | BLE_BT4.0 | Ant1_High_248 | 30 (^m) | |
| Dete: 22 JUN 2021 14:45:05 Spectrum Ref Level 20.00 dBm Att 30 /300 IPk View | BLE_BT4.0 | Ant1_High_248 | 30 (₩) -4.92 dBm | |
| Dete: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | 30 | |
| Dete: 22.JUN 2021 14:45:05 Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 IPK View 10 dBm 44 0 dBm 44 5 | BLE_BT4.0 | Ant1 High 248 00 kHz Mode Auto Sweep | 30 -4.92 dBm 2.479780 GHz -58.91 dBm 2.483500 GHz | |
| Date: 22.JUN 2021 14:45:05 Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 IPk View 10 dBm 0 dBm -10 dB | BLE_BT4.0 | Ant1_High_248 | 30 | |
| Dete: 22 JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -56,91 dBm 2.483500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | -4.92 dbm 2.479780 GHz -58,91 dBm 2.48550 GHz | |
| Dete: 22.JUN 2021 14:45:05 | BLE_BT4.0 Offset 1.00 dB @ RBW 3 SWT 1.1 ms @ VBW 3 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -58.91 dBm 2.483500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | -4.92 dBm 2.479780 GHz -56.91 dBm 2.483500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -58,91 dBm 2.493500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | -4.92 dbm 2.479780 GHz -58.91 dbm 2.483500 GHz | |
| Dete: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | 30 -4.92 dBm 2.479780 GHz - 56.91 dBm 2.489500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -58,91 dBm 2.493500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -56,91 dBm 2.493500 GHz -100 GHZ | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dbm 2.479780 GHz -58.91 dbm 2.483500 GHz | |
| Dete: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1_High_248 | 30 -4.92 dBm 2.479780 GHz - 58.91 dBm 2.483500 GHz - 483500 GHz - 483500 GHz - 5800 GHz - 59.55 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 | Ant1 High 248 | 30 -4,92 dBm 2,479780 GHz -580 J dBm 2,483500 GHz | |
| Date: 22.JUN 2021 14:45:05 Spectrum Ref Level 20:00 dBm Att 30 dB Count 300/300 11k View 10 dBm -20 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 | BLE_BT4.0 | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz -5.89 JdBm 2.493500 GHz | |
| Date: 22.JUN 2021 14:45:05 | BLE_BT4.0 Offset 1.00 dB | Ant1_High_248 00 kHz Mode Auto Sweep 01 kHz Mode Auto Sweep 01 kHz Mode Auto Sweep 01 kHz Mode Auto Sweep 02 kHz Mode Auto Sweep 03 kHz Mode Auto Sweep 04 dbm Mode Auto Sweep | 30 -4.92 dbm 2.479780 GHz -58.91 dbm 2.482500 GHz 38.91 dbm 2.482500 GHz 38.91 dbm 2.48250 GHz 39.91 dbm 39.91 dbm | |
| Dete: 22.JUN 2021 14:45:05 | BLE_BT4.0 Offset 1.00 dB = RBW : SWT 1.1 ms = VBW : | Ant1 High 248 | 30 -4.92 dBm 2.479780 GHz - 58.91 dBm 2.483500 GHz - 483500 GHz - 59.91 dBm 2.483500 GHz - 59.91 dBm - 4.92 dBm - 4.93 500 GHz - 5.95 GHz - 5.95 GHz | |
| Date: 22.JUN 2021 14:45:05 Spectrum Ref Level 20:00 dBm Att 30 dB Count 300/300 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.47 GHz Marker Type Ref Trc M1 M3 M4 | BLE_BT4.0 Offset 1.00 d8 | Ant1 High 248 00 kHz 00 kHz 00 kHz 00 kHz Mode Auto Sweep | 30 -4.92 dBm 2.479780 GHz -569 J dBm 2.483500 GHz - 100 GHZ | |



9.7 Spurious radiated emissions for transmitter

Test Method

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna 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.

4: 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious

RBW = 1MHz, VBW≥RBW for peak measurement ,Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1 MHz.

b) VBW $\ [3 \times RBW]$.

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the

transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction

factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction

factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.



Limits

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

| Frequency MHz | Field Strength uV/m | Field Strength dBµV/m | Detector |
|------------------|------------------------|--------------------------|----------|
| 30-88 | 100 | 40 | QP |
| 88-216 | 150 | 43.5 | QP |
| 216-960 | 200 | 46 | QP |
| 960-1000 | 500 | 54 | QP |
| Above 1000 | 500 | 54 | AV |
| Above 1000 | 5000 | 74 | PK |

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The worst case is listed in the report.

Remarks for test data:

- Data of measurement within frequency range18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report;
- (2) Level=Reading Level + Correction Factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



Spurious radiated emissions for transmitter

Transmitting spurious emission test result as below:

| Product Type | : | Hand held Massager |
|---------------------|---|--------------------|
| M/N | : | Theragun Prime |
| Operating Condition | : | BLE_BT4.0_2402 MHz |
| Test Specification | : | Horizontal |
| Comment | : | 30 MHz to 1 GHz |



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 50.673125 | 17.04 | 40.00 | 22.96 | 200.0 | Н | 106.0 | 15.44 |
| 104.386875 | 16.82 | 43.50 | 26.68 | 200.0 | Н | 0.0 | 12.71 |
| 215.270000 | 23.24 | 43.50 | 20.26 | 100.0 | Н | 0.0 | 13.30 |
| 391.810000 | 21.07 | 46.00 | 24.93 | 200.0 | Н | 0.0 | 18.17 |
| 579.323125 | 27.03 | 46.00 | 18.97 | 100.0 | Н | 0.0 | 22.06 |
| 903.363750 | 32.57 | 46.00 | 13.43 | 100.0 | Н | 0.0 | 26.82 |



Product Type M/N Operating Condition Test Specification Comment Hand held Massager
Theragun Prime
BLE_BT4.0_2402 MHz
Vertical

: 30 MHz to 1 GHz



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 35.213750 | 22.69 | 40.00 | 17.31 | 100.0 | V | 166.0 | 12.62 |
| 54.431875 | 17.89 | 40.00 | 22.11 | 100.0 | V | 352.0 | 14.94 |
| 94.444375 | 16.83 | 43.50 | 26.67 | 100.0 | V | 81.0 | 12.00 |
| 200.356250 | 17.14 | 43.50 | 26.36 | 200.0 | V | 0.0 | 13.33 |
| 391.082500 | 23.14 | 46.00 | 22.86 | 100.0 | V | 355.0 | 18.18 |
| 959.320625 | 32.80 | 46.00 | 13.20 | 100.0 | V | 81.0 | 27.36 |



| : | Hand held Massager |
|---|--------------------|
| : | Theragun Prime |
| : | BLE_BT4.0_2402 MHz |
| : | Horizontal |
| : | 1 GHz to 18 GHz |
| | ·· ·· ·· |



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1593.000000 | 40.47 | 74.00 | 33.53 | 150.0 | Н | 140.0 | -9.64 |
| 2295.500000 | 50.05 | 74.00 | 23.95 | 150.0 | Н | 249.0 | -6.31 |
| 2440.500000 | 45.99 | 74.00 | 28.01 | 150.0 | Н | 148.0 | -5.83 |
| 5708.000000 | 48.44 | 74.00 | 25.56 | 150.0 | Н | 116.0 | 4.31 |

| Remark: The emissions which exceed the limit is the fundamental sig | nal |
|---|-----|
|---|-----|



Product Type:Hand held MassagerM/N:Theragun PrimeOperating Condition:BLE_BT4.0_2402 MHzTest Specification:VerticalComment:1 GHz to 18 GHz



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1596.000000 | 46.81 | 74.00 | 27.19 | 150.0 | V | 210.0 | -9.61 |
| 2095.000000 | 50.35 | 74.00 | 23.65 | 150.0 | V | 249.0 | -7.14 |
| 3199.000000 | 48.69 | 74.00 | 25.31 | 150.0 | V | 187.0 | -2.66 |

Remark: The emissions which exceed the limit is the fundamental signal.

| Product Type | : | Hand held Massager |
|---------------------|---|--------------------|
| M/N | : | Theragun Prime |
| Operating Condition | : | BLE_BT4.0_2440 MHz |
| Test Specification | : | Horizontal |
| Comment | : | 1 GHz to 18 GHz |
| | | |



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1950.500000 | 45.38 | 74.00 | 28.62 | 150.0 | Н | 245.0 | -7.61 |
| 2296.000000 | 45.62 | 74.00 | 28.38 | 150.0 | Н | 316.0 | -6.31 |
| 5508.000000 | 49.50 | 74.00 | 24.50 | 150.0 | Н | 116.0 | 4.58 |





Product Type:Hand held MassagerM/N:Theragun PrimeOperating Condition:BLE_BT4.0_2440 MHzTest Specification:VerticalComment:1 GHz to 18 GHz



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1599.500000 | 47.00 | 74.00 | 27.00 | 150.0 | V | 301.0 | -9.59 |
| 2125.500000 | 47.44 | 74.00 | 26.56 | 150.0 | V | 243.0 | -7.02 |
| 3195.500000 | 47.96 | 74.00 | 26.04 | 150.0 | V | 38.0 | -2.66 |
| 7319.500000 | 47.41 | 74.00 | 26.59 | 150.0 | V | 205.0 | 7.24 |





| : | Hand held Massager |
|---|---|
| : | Theragun Prime |
| : | BLE_BT4.0_2480 MHz |
| : | Horizontal |
| : | 1 GHz to 18 GHz |
| | : |



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1047.000000 | 42.00 | 74.00 | 32.00 | 150.0 | Н | 282.0 | -13.37 |
| 5996.000000 | 48.92 | 74.00 | 25.08 | 150.0 | Н | 288.0 | 4.63 |
| 7440.500000 | 46.70 | 74.00 | 27.30 | 150.0 | Н | 25.0 | 7.42 |



SUD

Product Type:Hand held MassagerM/N:Theragun PrimeOperating Condition:BLE_BT4.0_2480 MHzTest Specification:VerticalComment:1 GHz to 18 GHz



| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|--------------------|---------------------|-------------------|----------------|----------------|-----|------------------|-----------------|
| 1175.000000 | 38.30 | 74.00 | 35.70 | 150.0 | V | 194.0 | -12.39 |
| 2097.500000 | 50.66 | 74.00 | 23.34 | 150.0 | V | 249.0 | -7.13 |
| 7440.500000 | 48.57 | 74.00 | 25.43 | 150.0 | V | 134.0 | 7.42 |

| Remark: The emissions which exceed the limit is the fundamental signal | al. |
|--|-----|
|--|-----|



10 Test Equipment List

Test Site 1:

Conducted Emission Test

| DESCRIPTION | MANUFACTURER | MODEL NO. | EQUIPMENT ID | SERIAL NO. | CAL INTERVAL (YEAR) | CAL. DUE DATE |
|----------------------|-------------------|-----------|--------------------|----------------|---------------------------|------------------|
| EMI Test Receiver | Rohde & Schwarz | ESR 3 | 68-4-74-14-001 | 101782 | 1 | 2021-6-29 |
| LISN | Rohde & Schwarz | ENV432 | 68-4-87-16-001 | 101318 | 1 | 2021-6-12 |
| Attenuator | Shanghai Huaxiang | TS2-26-3 | 68-4-81-16-003 | 080928189 | 1 | 2021-6-21 |
| Test software | Rohde & Schwarz | EMC32 | 68-4-90-14-003-A10 | Version9.15.00 | N/A | N/A |
| Shielding Room | TDK | CSR #1 | 68-4-90-19-004 | | 1 | 2022-11-07 |

RF conducted test

| DESCRIPTION | MANUFACTURER | MODEL NO. | EQUIPMENT ID | SERIAL NO. | CAL INTERVAL (YEAR) | CAL. DUE DATE |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------------------------|------------------|
| Signal Analyzer | Rohde & Schwarz | FSV40 | 68-4-74-14-004 | 101030 | 1 | 2021-6-21 |
| RF Switch Module | Rohde & Schwarz | OSP120/OSP- B157 | 68-4-93-14-003 | 101226/1008 51 | 1 | 2021-6-21 |
| Power Splitter | Weinschel | 1580 | 68-4-85-14-001 | SC319 | 1 | 2021-7-16 |
| 10dB Attenuator | Weinschel | 4M-10 | 68-4-81-14-003 | 43152 | 1 | 2021-6-21 |
| 10dB Attenuator | R&S | DNF | 68-4-81-14-004 | DNF-001 | 1 | 2021-6-21 |
| 10dB Attenuator | R&S | DNF | 68-4-81-14-005 | DNF-002 | 1 | 2021-6-21 |
| 10dB Attenuator | R&S | DNF | 68-4-81-14-006 | DNF-003 | 1 | 2021-6-21 |
| 10dB Attenuator | R&S | DNF | 68-4-81-14-007 | DNF-004 | 1 | 2021-6-21 |
| Test software | Tonscend | System for BT/WIFI | 68-4-74-14-006-A13 | Version 2.6.77.0518 | N/A | N/A |
| Shielding Room | TDK | TS8997 | 68-4-90-19-003 | | 1 | 2022-12-6 |

| Spurious Radiated Emissions Test | | | | | | |
|---|-----------------|-----------------------|--------------------|---------------------|---------------------------|------------------|
| DESCRIPTION | MANUFACTURER | MODEL NO. | EQUIPMENT ID | SERIAL NO. | CAL INTERVAL (YEAR) | CAL. DUE DATE |
| EMI Test Receiver | Rohde & Schwarz | ESR 26 | 68-4-74-14-002 | 101269 | 1 | 2021-6-29 |
| Trilog Super Broadband Test Antenna | Schwarzbeck | VULB 9162 | 68-4-80-19-003 | 284 | 1 | 2021-2-24 |
| Wave Guide Antenna | ETS | 3117 | 68-4-80-19-001 | 00218954 | 1 | 2021-6-15 |
| Pre-amplifier | Rohde & Schwarz | SCU 18F | 68-4-29-19-001 | 100745 | 1 | 2020-12-14 |
| Pre-amplifier | Rohde & Schwarz | SCU 08F2 | 68-4-29-19-004 | 08400018 | 1 | 2020-12-14 |
| Sideband Horn Antenna | Q-PAR | QWH-SL-18-40- K-SG | 68-4-80-14-008 | 12827 | 1 | 2021-8-5 |
| Pre-amplifier | Rohde & Schwarz | SCU 40A | 68-4-29-14-002 | 100432 | 1 | 2021-7-30 |
| 3m Semi- anechoic chamber | TDK | 9X6X6 | 68-4-90-19-006 | | 3 | 2022-12-29 |
| Test software | Rohde & Schwarz | EMC32 | 68-4-90-19-006-A01 | Version10.35. 02 | N/A | N/A |



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Site 1:

| System Measurement Uncertainty | | | | | |
|---|----------------------------|--|--|--|--|
| Test Items | Extended Uncertainty | | | | |
| Uncertainty for Conducted Emission 150kHz-30MHz | 3.21dB | | | | |
| Uncertainty for Radiated Emission in new 3m chamber 30MHz-1000MHz | Horizontal: 4.70dB; | | | | |
| | Vertical: 4.67dB | | | | |
| Uncertainty for Radiated Emission in new 3m chamber 1000MHz- | Horizontal: 4.65dB; | | | | |
| 18000MHz | Vertical: 4.63dB | | | | |
| Uncertainty for Radiated Emission 18000MHz-40000MHz | Horizontal: 4.51dB; | | | | |
| | Vertical: 4.50dB | | | | |
| Uncertainty for Conducted RF test | RF Power Conducted: 1.16dB | | | | |
| | Frequency test involved: | | | | |
| | 0.6×10-7 or 1% | | | | |