



TEST REPORT FOR SAR TESTING

Report No.: SRTC2017-9004(F)-17070301(H)

Product Name: Mobile Phone

Product Model: Hisense L675 PRO

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 2.1093

IEEE Std 1528-2013

FCC RF Exposure KDB Procedures

FCC ID: 2ADOBL675PRO

The State Radio_monitoring_center Testing Center (SRTC)

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1. GENERAL INFORMATION

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

| Company: | The State Radio_monitoring_center Testing Center (SRTC) | |
|--------------------|---|--|
| Address: | No.80 Beilishi Road, Xicheng District | |
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1.3 Applicant's details

| Company: | Hisense International Co., Ltd. | | |
|--------------------|---|--|--|
| Address: | Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, | | |
| | China | | |
| City: | Qingdao | | |
| Country or Region: | P.R.China | | |
| Grantee Code: | 2ADOB | | |
| Contacted person: | Zhang Kelin | | |
| Tel: | +86-532-55753242 | | |
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1.4 Manufacturer's details

| Company: | Hisense Communications Co., Ltd. |
|--------------------|--|
| Address: | 218 Qianwangang Road, Economic & Technological Development |
| | Zone, Qingdao, Shandong Province, P.R. China |
| City: | Qingdao |
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1.5 Test Environment

| Date of Receipt of test sample at SRTC: | 2017.06.07 |
|---|------------|
| Testing Start Date: | 2017.06.08 |
| Testing End Date: | 2017.07.05 |

| Environmental Data: | Temperature (°C) | Humidity (%) |
|---------------------|------------------|--------------|
| Ambient | 24.0 | 30.0 |

| Normal Supply Voltage (V d.c.): | 3.80 |
|---------------------------------|------|
|---------------------------------|------|



2. DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

| Wireless Technology and WCDMA Band: GSM850/PCS1900 WCDMA Band: FDD2/4/5 LTE Band: FDD2/4/5/7 Wi-Fi Band: 2400MHz~2483.5MHz | | | |
|--|---|--|--|
| Frequency Bands LTE Band: FDD2/4/5/7 Wi-Fi Band: 2400MHz~2483.5MHz | | | |
| Wi-Fi Band: 2400MHz~2483.5MHz | LTE Band: FDD2/4/5/7 | | |
| | | | |
| Bluetooth Band: 2400MHz~2483.5MHz | | | |
| Mode GSM | GSM | | |
| ⊠Voice (GMSK) | | | |
| □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | | | |
| | ⊠EGPRS (GMSK/8PSK) | | |
| WCDMA ' | | | |
| ☑UMTS Rel. 99 (Voice & Data) | | | |
| □ HSDPA (Rel. 5) | | | |
| □ HSUPA (Rel. 6) | | | |
| HSPA+ (Rel.) | | | |
| DC-HSDPA (Rel.) | | | |
| LTE | | | |
| □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | | | |
| □ 16QAM | | | |
| Wi-Fi 2.4GHz | | | |
| ⊠802.11b | | | |
| <u></u> 802.11g | | | |
| ⊠802.11n (20MHz) | <u> </u> | | |
| □802.11n (40MHz) | <u> </u> | | |
| Bluetooth | | | |
| ⊠BR(GFSK) | | | |
| ⊠EDR(π/4 DQPSK, 8-DPSK) | | | |
| ⊠BLE(GFSK) | | | |
| Duty Cycle GSM Voice: 12.5%; | | | |
| GPRS: 12.5% (1 Slot), 25% (2 Slots), 37.5% (3 Slots), 50% (4 Slots) | | | |
| WCDMA: 100% | | | |
| Wi-Fi 802.11b/g/n: 100% | | | |
| Bluetooth: 32.25% (DH1), 66.68% (DH3), 77.52% (DH5) | | | |
| GPRS Multi-Slot | | | |
| Class 10 - Two Up | | | |
| ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | | | |
| Mobile Phone | services | | |
| Capability simultaneously. | | | |
| ☐Class B - Mobile phones can be attached to both GPRS and GSM se | ervices, | | |
| using one service at a time. | using one service at a time. | | |
| | Class C - Mobile phones are attached to either GPRS or GSM voice service. | | |
| You need to switch manually between services | | | |
| DTM (Dual Transfer Not Supported | | | |
| Mode) | | | |

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2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

| The following support equipment was used to exercise the DOT during testing. | | | |
|--|---|--|--|
| State of sample | Production unit | | |
| Hoodoot | PY-1309102-05KD45/ | | |
| Headset | DONGGUAN HETONG INDUSTRIAL CO.,LTD | | |
| Batteries | Battery1 :LIW38238/TMB | | |
| Batteries | Battery2 :LIW38238/VEKEN | | |
| H/W Version | V1.00 | | |
| S/W Version | L1402.6.01.00.MX05 | | |
| IMEI | 863721030069527 | | |
| | As the information described above, there is only one model of the batteries manufactured by two different companies. | | |
| Notes | The relevant tests have been performed in order to verify in which combination | | |
| | case the EUT would have the worst features. So all the tests shown in this test | | |
| | report are performed when the EUT exercised by the battery TMB. | | |

3. REFERENCE SPECIFICATION

| Specification | Version | Title | |
|----------------|---------------|--|--|
| Part 2.1093 | Nov. 14, 2016 | Radiofrequency radiation exposure evaluation: portable devices. | |
| IEEE Std 1528 | 2013 | IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques | |
| IEEE Std 1528a | 2005 | IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: | |
| | | Measurement Techniques Amendment 1: CAD File for Human | |
| | | Head Model (SAM Phantom) | |
| KDB 447498 D01 | v06 | General RF Exposure Guidance | |
| KDB 648474 D04 | v01r03 | Handset SAR | |
| KDB 941225 D01 | v03r01 | 3G SAR Procedures | |
| KDB 941225 D06 | v02r01 | Hotspot Mode | |
| KDB 248227 D01 | v02r02 | SAR meas for 802 11 a b g | |
| KDB 865664 D01 | v01r04 | SAR Measurement 100 MHz to 6 GHz | |
| KDB 865664 D02 | v01r02 | RF Exposure Reporting | |
| KDB 941225 D05 | v02r05 | SAR for LTE Devices | |

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4. TEST CONDITIONS

4.1 Picture to demonstrate the required liquid depth

The liquid depth in the used SAM phantoms



Liquid depth for SAR Measurement

4.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester. Communication between the device and the call tester was established by air link.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels.

4.3 SAR Measurement Set-up

The system is based on a high precision robot (working range greater than 0.9m), which positions the probes with a positional repeatability of better than $\pm 0.02mm$. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines (length =300mm) to the data acquisition unit. A cell controller system contains the power supply, robot controller, teaches pendant (Joystick), and remote control, is used to drive the robot motors.

The PC consists of the Micron Pentium IV computer with Win7 system and SAR Measurement Software DASY5 Professional, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot.

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A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler

(EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines.

The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection

The robot uses its own controller with a built in VME-bus computer.

4.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528 - 2013.

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.5 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 - 2013 and FCC Supplement C to OET Bulletin 65. All tests were carried out using simulants whose dielectric parameters were within ± 5% of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was 15.0 ± 0.5 cm measured from the ear reference point during system checking and device measurements.

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4.5.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue stimulant(s):

835MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water | 41.45 | 52.50 |
| Sugar | 56.00 | 45.0 |
| Nacl | 1.45 | 1.40 |
| Cellulose | 1.00 | 1.00 |
| Preventol | 0.10 | 0.10 |

1900MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water | 44,45 | 70.17 |
| DGBE | 55.24 | 29.44 |
| Nacl | 0.31 | 0.39 |

2450MHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|------------|--------------------|--------------------|
| Water | 55.00 | 68.64 |
| DGBE | 45.00 | 31.37 |
| Nacl | 0.00 | 0.00 |

5GHz band

| Ingredient | Head (% by weight) | Body (% by weight) |
|--------------------------------|--------------------|--------------------|
| Water | 65.52 | |
| Triton X-100 | 17.24 | |
| Diethylenglycol monohexylether | 17.24 | |

4.6 DESCRIPTION OF THE TEST PROCEDURE

4.6.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

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4.6.2 Test positions

4.6.2.1 Against Phantom Head

Measurements were made in "cheek" and "tilt" positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 - 2013 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

4.6.2.2 Body Worn Configuration

The device was placed in the SPEAG holder below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance using a separate flat spacer that was removed before the start of the measurements. And the distance is 10mm. The device was oriented with its antenna facing the phantom since this orientation gives higher results.

4.6.3 Scan Procedure

First, area scans were used for determination of the field distribution and the approximate location of the local peak SAR values. The SAR distribution is scanned along the inside surface, at least for an area larger than the projection of the handset and antenna. The angle between the probe axis and the surface normal line is recommended but not required to be less than 30°. The SAR distribution is first measured on a 2-D coarse grid. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. It is a 15 mm × 15 mm measurement grid used when two staggered one-dimensional cubic splines are used to estimate the maximum SAR location. Next, a zoom scan, a minimum of 7 x 7x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan.

4.6.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within DASY5 are all based on the modified Quadratic Shepard's method (Robert J. Renka,"Multivariate Interpolation of Large Sets of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics. In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.



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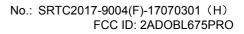
5 RESULT SUMMAR

The maximum reported SAR values for Head configuration and Body Worn configuration are given as follows. The device conforms to the requirements of the standard(s) when the maximum reported SAR value is less than or equal to the limit.

NOTE: The test result of variation product is better than the original test data. So the original

test data retain and adopted as the final test result.

| Exposure Position | Frequency Band | 1g-SAR Reported Result (W/kg) | Highest 1g-SAR Reported Result (W/kg) | | Limit (W/kg)/1g | Result |
|----------------------|----------------|--|---|-------|--------------------|----------|
| | GSM 850 | 0.322 | | | | |
| | GSM 1900 | 0.269 | | | | |
| | WCDMA BAND 2 | 0.508 | | | | |
| | WCDMA BAND 4 | 0.509 | | | | |
| Head | WCDMA BAND 5 | 0.196 | 0.509 | | | |
| | LTE Band 2 | 0.464 | | | | <u> </u> |
| | LTE Band 4 | | | | | |
| | LTE Band 5 | | | | | |
| | LTE Band 7 | 0.073 | | | | PASS |
| | GSM 850 | 0.953 | | | | |
| | GSM 1900 | 0.981 | 1 | | | |
| | WCDMA BAND 2 | 0.781 | 1.012 | | | |
| | WCDMA BAND 4 | 1.012 | | | | |
| Body | WCDMA BAND 5 | 0.468 | | 1.012 | 1.6 | |
| | LTE Band 2 | 0.934 | | | | |
| | LTE Band 4 | 0.527 | | | | |
| | LTE Band 5 | 0.310 | | | | |
| | LTE Band 7 | 0.850 | 1 | | | |
| | GSM 850 | 0.858 | | | | |
| | GSM 1900 | 0.569 | | | | |
| | WCDMA BAND 2 | 0.738 | | | | |
| Hotspot | WCDMA BAND 4 | 0.538 | 1 | | | |
| | WCDMA BAND 5 | 0.159 | 0.858 | | | |
| | LTE Band 2 | 0.396 |] | | | |
| | LTE Band 4 | 0.392 | 1 | | | |
| | LTE Band 5 | 0.352 |] | | | |
| | LTE Band 7 | 0.600 | | | | |



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Simultaneous Transmission Summary

| Exposure Position | Frequency Band | 1g-SAR Result(W/kg) | Highest Result(| _ | Limit (W/kg)/1g | Result |
|-------------------|-----------------|------------------------|--------------------|-----------|--------------------|--------|
| | GSM & Wi-Fi | 0.739 | | | | |
| | WCDMA & Wi-Fi | 0.926 | | | | |
| | LTE& Wi-Fi | 0.881 | | | | |
| Head | GSM & Bluetooth | 0.355 | 0.926 | | | |
| | WCDMA & | 0.542 | | | | |
| | Bluetooth | 0.542 | | | | |
| | LTE& Bluetooth | 0.497 | | | | |
| | GSM & Wi-Fi | | | 1.429 1.6 | | |
| | WCDMA & Wi-Fi | 1.429 | 1.429 | | 1.6 | |
| | LTE& Wi-Fi | 1.351 | | | | |
| Body | GSM & Bluetooth | 1.014 | | | | 1.6 |
| | WCDMA & | 1.045 | | | | |
| | Bluetooth | 1.043 | | | | |
| | LTE& Bluetooth | 0.967 | | | | |
| | GSM & Wi-Fi | 1.275 | | | | |
| | WCDMA & Wi-Fi | 1.155 | | | | |
| | LTE& Wi-Fi | 1.017 | | | | |
| Hotspot | GSM & Bluetooth | 0.891 | 1.275 | | | |
| | WCDMA & | 0.771 | | | | |
| | Bluetooth | | | | | |
| | LTE& Bluetooth | 0.633 | | | | |

| This Test Report Is Issued by: | Checked by: |
|--------------------------------|---------------|
| Mr. Peng Zhen | Ms. Liu Jia |
| 彭振 | in the second |
| Tested by: | Issued date: |
| Mr. Li Bin | |
| [AM) | 20170707 |

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6 TEST RESULT

6.1 Manufacturing Tolerance

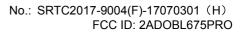
GSM

| GSM 850 | | | | | |
|---|-----------|-----------|-----------|--|--|
| Channel Channel 128 Channel 189 Channel 251 | | | | | |
| Tolerance (dBm) 30.0~34.0 30.0~34.0 30.0~34.0 | | | | | |
| | GSM 1 | 900 | | | |
| Channel Channel 512 Channel 661 Channel 810 | | | | | |
| Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 | | |

| GSM 850 GPRS | | | | | |
|--------------|--------------------------|-------------|-----------|-----------|--|
| | Channel | 128 | 189 | 251 | |
| 1 Txslot | Tolerance (dBm) | 30.0~34.0 | 30.0~34.0 | 30.0~34.0 | |
| 2 Txslot | Tolerance (dBm) | 28.0~32.0 | 28.0~32.0 | 28.0~32.0 | |
| 3 Txslot | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 | |
| 4 Txslot | 4 Txslot Tolerance (dBm) | | 25.0~29.0 | 25.0~29.0 | |
| | GSM 850 | EGPRS (GMSK | () | | |
| | Channel | 128 | 189 | 251 | |
| 1 Txslot | Tolerance (dBm) | 30.0~34.0 | 30.0~34.0 | 30.0~34.0 | |
| 2 Txslot | Tolerance (dBm) | 28.0~32.0 | 28.0~32.0 | 28.0~32.0 | |
| 3 Txslot | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 | |
| 4 Txslot | Tolerance (dBm) | 25.0~29.0 | 25.0~29.0 | 25.0~29.0 | |

| GSM 1900 GPRS | | | | | |
|---------------|--------------------------|---------------|------------|-----------|--|
| Channel | | 512 | 661 | 810 | |
| 1 Txslot | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 | |
| 2 Txslot | Tolerance (dBm) | 26.0~30.0 | 26.0~30.0 | 26.0~30.0 | |
| 3 Txslot | Tolerance (dBm) | 24.0~28.0 | 24.0~28.0 | 24.0~28.0 | |
| 4 Txslot | 4 Txslot Tolerance (dBm) | | 22.0~26.0 | 22.0~26.0 | |
| | GSM 190 | 0 EGPRS (GMSk | () | | |
| | Channel | 512 | 661 | 810 | |
| 1 Txslot | Tolerance (dBm) | 27.0~31.0 | 27.0~31.0 | 27.0~31.0 | |
| 2 Txslot | Tolerance (dBm) | 26.0~30.0 | 26.0~30.0 | 26.0~30.0 | |
| 3 Txslot | Tolerance (dBm) | 24.0~28.0 | 24.0~28.0 | 24.0~28.0 | |
| 4 Txslot | Tolerance (dBm) | 22.0~26.0 | 22.0~26.0 | 22.0~26.0 | |

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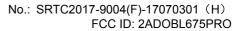
WCDMA

| WCDMA Band2 | | | | | |
|-----------------|-----------|----------------|-----------|--|--|
| Channel | 9262 | 9262 9400 9538 | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | |
| WCDMA Band4 | | | | | |
| Channel | 1312 | 1412 | 1513 | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | |
| WCDMA Band5 | | | | | |
| Channel | 4132 | 4183 | 4233 | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | |

| HSDPA Band2 | | | | | |
|-------------|-----------------|-----------|-----------|-----------|--|
| Channel | | 9262 | 9400 | 9538 | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 4 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| | HS | DPA Band4 | | | |
| | Channel | 1312 | 1412 | 1513 | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 4 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| | HS | DPA Band5 | | | |
| | Channel | 4132 | 4183 | 4233 | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 4 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |

| HSUPA Band2 | | | | | | |
|-------------|------------------------|-----------|-----------|-----------|--|--|
| | Channel 9262 9400 9538 | | | | | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | | |
| Sub test 4 | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 | | |
| Sub test 5 | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | |

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| HSUPA Band4 | | | | | |
|-------------|-----------------|------------|-----------|-----------|--|
| | Channel | 1312 | 1412 | 1513 | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 4 | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 | |
| Sub test 5 | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | |
| | HS | SUPA Band5 | | | |
| | Channel | 4132 | 4183 | 4233 | |
| Sub test 1 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 2 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 3 | Tolerance (dBm) | 18.0~22.0 | 18.0~22.0 | 18.0~22.0 | |
| Sub test 4 | Tolerance (dBm) | 17.0~21.0 | 17.0~21.0 | 17.0~21.0 | |
| Sub test 5 | Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | |

Bluetooth

| GFSK | | | | | | |
|-----------------|-----------|-----------|-----------|--|--|--|
| Channel | 0 | 39 | 78 | | | |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 | | | |
| π/4DQPSK | | | | | | |
| Channel | 0 | 39 | 78 | | | |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 | | | |
| 8DPSK | | | | | | |
| Channel | 0 | 39 | 78 | | | |
| Tolerance (dBm) | -6.0~-2.0 | -6.0~-2.0 | -6.0~-2.0 | | | |

Bluetooth (BLE)

| GFSK | | | | | |
|-----------------|----------|----------|----------|--|--|
| Channel 0 39 78 | | | | | |
| Tolerance (dBm) | -2.0~2.0 | -2.0~2.0 | -2.0~2.0 | | |

Wi-Fi(2.4GHz)

| 802.11b | | | | | | |
|-----------------|----------|----------|----------|--|--|--|
| Channel | 1 | 6 | 11 | | | |
| Tolerance (dBm) | 9.0~13.0 | 9.0~13.0 | 9.0~13.0 | | | |
| 802.11g | | | | | | |
| Channel | 1 | 6 | 11 | | | |
| Tolerance (dBm) | 8.0~12.0 | 8.0~12.0 | 8.0~12.0 | | | |
| 802.11n HT20 | | | | | | |
| Channel | 1 | 6 | 11 | | | |
| Tolerance (dBm) | 8.0~12.0 | 8.0~12.0 | 8.0~12.0 | | | |

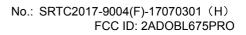
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LTE

Band 2

| Dana 2 | 00514/40 | 00/ DB | |
|--------------------|-----------------------|---------------|---------------|
| | 20BW 10 | | |
| Channel | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 20BW 50 |)%RB | |
| Channel | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| , | 20BW ² | | |
| Channel | Channel 18700 | Channel 18900 | Channel 19100 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (dBill) | 15BW 10 | | 13.0 23.0 |
| Channel | Channel 18675 | Channel 18900 | Channel 19125 |
| | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| <u> </u> | 15BW 50 | | |
| Channel | Channel 18675 | Channel 18900 | Channel 19125 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW ⁻ | | |
| Channel | Channel 18675 | Channel 18900 | Channel 19125 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| , | 10BW 10 | 0%RB | |
| Channel | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (dbiii) | 19.0°25.0 10BW 50 | | 19.0*23.0 |
| Charral | | | Charmal 10150 |
| Channel (d.D.m.) | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW ⁻ | | |
| Channel | Channel 18650 | Channel 18900 | Channel 19150 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| , , | 5BW 100 | %RB | |
| Channel | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| 1010101100 (02111) | 5BW 50° | | 10.0 20.0 |
| Channel | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (dbiii) | 19.0 23.0 5BW 1 | | 19.0 -23.0 |
| Channel | | | Channel 1017F |
| Channel | Channel 18625 | Channel 18900 | Channel 19175 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 3BW 100 | | |
| Channel | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 3BW 50° | | |
| Channel | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 3BW 1 | RB | |
| Channel | Channel 18615 | Channel 18900 | Channel 19185 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (ubili) | 19.0~23.0 1.4BW 10 | | 19.0 -20.0 |
| Chennel | | | Channel 10102 |
| Channel | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 1.4BW 50 | | |
| Channel | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 1.4BW | | |
| Channel | Channel 18607 | Channel 18900 | Channel 19193 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | | | |

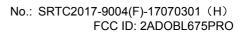




Band 4

| Band 4 | | | |
|-------------------------|----------------------|---------------|----------------|
| | 20BW 10 | 0%RB | |
| Channel | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| \ | 20BW 50 | 0%RB | |
| Channel | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| reference (ubili) | 20BW | | 10.0 20.0 |
| Channel | Channel 20050 | Channel 20175 | Channel 20300 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (dbill) | 15BW 10 | | 19.0 23.0 |
| Channal | Channel 20250 | Channel 20175 | Channel 20325 |
| Channel (dDm) | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW 50 | | 1 00005 |
| Channel | Channel 20250 | Channel 20175 | Channel 20325 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW | | |
| Channel | Channel 20250 | Channel 20175 | Channel 20325 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW 10 | 0%RB | |
| Channel | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW 50 | | |
| Channel | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (abiii) | 10BW | | 10.0 20.0 |
| Channel | Channel 20000 | Channel 20175 | Channel 20350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (ubili) | 19.0~23.0 5BW 100 | | 19.0~23.0 |
| Observat | | | 01100075 |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| <u> </u> | 5BW 50 | | |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 5BW 1 | IRB | |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 3BW 100 | 0%RB | |
| Channel | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| 10.0.0.00 (0.0.11) | 3BW 50 | | 10.0 20.0 |
| Channel | Channel 19965 | Channel 20175 | Channel 20385 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| Tolerance (abiii) | 19.0 25.0 3BW 1 | | 10.0 20.0 |
| Channel | | Channel 20175 | Channel 20385 |
| Channel Tolerance (dBm) | Channel 19965 | 19.0~23.0 | |
| TOIETATICE (UBITI) | 19.0~23.0 | | 19.0~23.0 |
| Observed | 1.4BW 10 | | Ohana da 20000 |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 1.4BW 5 | | |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 1.4BW | | |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | | | |

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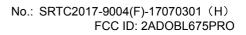


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Band 5

| 10BW 100%RB | | | | | | | |
|-----------------|---------------|---------------|----------------|--|--|--|--|
| Channel | Channel 20000 | Channel 20175 | Channel 20350 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 10BW 50 | %RB | | | | | |
| Channel | Channel 20000 | Channel 20175 | Channel 20350 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 10BW <i>1</i> | | | | | | |
| Channel | Channel 20000 | Channel 20175 | Channel 20350 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 5BW 100 | | | | | | |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 5BW 50° | | | | | | |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 5BW 1 | | | | | | |
| Channel | Channel 19975 | Channel 20175 | Channel 20375 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 3BW 100 | | | | | | |
| Channel | Channel 19965 | Channel 20175 | Channel 20385 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| <u> </u> | 3BW 50° | | | | | | |
| Channel | Channel 19965 | Channel 20175 | Channel 20385 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 3BW 1 | | | | | | |
| Channel | Channel 19965 | Channel 20175 | Channel 20385 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| | 1.4BW 10 | | | | | | |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| Observation | 1.4BW 50 | | 01100000 | | | | |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |
| Ohamad | 1.4BW | | Ohana al 20202 | | | | |
| Channel | Channel 19957 | Channel 20175 | Channel 20393 | | | | |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 | | | | |



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Band7

| Bana / | | | |
|-----------------|---------------|---------------|---------------|
| | 20BW 10 | 0%RB | |
| Channel | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 20BW 50 |)%RB | |
| Channel | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 20BW | 1RB | |
| Channel | Channel 20850 | Channel 21100 | Channel 21350 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW 10 | 0%RB | |
| Channel | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW 50 | 0%RB | |
| Channel | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 15BW | 1RB | |
| Channel | Channel 20825 | Channel 21100 | Channel 21375 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW 10 | 0%RB | |
| Channel | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW 50 | %RB | |
| Channel | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 10BW | 1RB | |
| Channel | Channel 20800 | Channel 21100 | Channel 21400 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 5BW 100 | %RB | |
| Channel | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 5BW 50 | %RB | |
| Channel | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | 5BW 1 | RB | |
| Channel | Channel 20775 | Channel 21100 | Channel 21425 |
| Tolerance (dBm) | 19.0~23.0 | 19.0~23.0 | 19.0~23.0 |
| | | | |

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6.2 GSM Measurement result

GSM Measured Power

| Mode | GSM850 | | | GSM1900 | | |
|---------------------|--------|-------|-------|---------|--------|--------|
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency(MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| Measured Power(dBm) | 32.91 | 32.94 | 32.92 | 29.97 | 29.98 | 29.91 |

GPRS Measured Power

| Mode | GPRS850 | | | GPRS1900 | | |
|----------------------------|---------|-------|-------|----------|--------|--------|
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency(MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 32.91 | 32.94 | 32.92 | 29.97 | 29.98 | 29.91 |
| 3Downlink2uplinkPower(dBm) | 31.11 | 30.97 | 30.92 | 27.44 | 27.46 | 27.53 |
| 2Downlink3uplinkPower(dBm) | 29.28 | 29.15 | 29.10 | 26.12 | 26.09 | 26.12 |
| 1Downlink4uplinkPower(dBm) | 28.30 | 28.17 | 28.11 | 25.00 | 25.01 | 24.99 |

GPRS Averaged Power

| Mode | GPRS850 | | | GPRS1900 | | |
|----------------------------|---------|-------|-------|----------|--------|--------|
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency(MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 |
| 4Downlink1uplinkPower(dBm) | 23.88 | 23.91 | 23.89 | 20.94 | 20.95 | 20.88 |
| 3Downlink2uplinkPower(dBm) | 25.09 | 24.95 | 24.90 | 21.42 | 21.44 | 21.51 |
| 2Downlink3uplinkPower(dBm) | 25.02 | 24.89 | 24.84 | 21.86 | 21.83 | 21.86 |
| 1Downlink4uplinkPower(dBm) | 25.29 | 25.16 | 25.10 | 21.99 | 22.00 | 21.98 |

Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

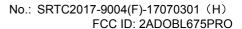
1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink)= 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink)= 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for GPRS.



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EGPRS Measured Power

| Mode | EGPRS850 (GMSK) | | | EGPRS1900 (GMSK) | | | |
|-----------------------------|-----------------|-----------------|-------|------------------|------------------|--------|--|
| Wiode | EGPI | EGPRS850 (8PSK) | | | EGPRS1900 (8PSK) | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 | |
| Frequency(MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 | |
| 4Downlink4.unlinkDower(dDm) | 32.91 | 32.94 | 32.92 | 29.97 | 29.98 | 29.91 | |
| 4Downlink1uplinkPower(dBm) | 26.00 | 25.92 | 25.83 | 25.78 | 25.53 | 25.37 | |
| 3Downlink2uplinkPower(dBm) | 31.11 | 30.97 | 30.92 | 27.44 | 27.46 | 27.53 | |
| 3DownlinkzuplinkFower(ubin) | 25.31 | 25.82 | 25.56 | 25.41 | 25.12 | 25.19 | |
| 2Downlink2unlinkDower(dPm) | 29.28 | 29.15 | 29.10 | 26.12 | 26.09 | 26.12 | |
| 2Downlink3uplinkPower(dBm) | 23.87 | 24.05 | 24.10 | 23.60 | 23.23 | 22.97 | |
| 1Downlink/LunlinkBower(dPm) | 28.30 | 28.17 | 28.11 | 25.00 | 25.01 | 24.99 | |
| 1Downlink4uplinkPower(dBm) | 21.68 | 21.63 | 21.66 | 20.65 | 20.48 | 20.80 | |

EGPRS Averaged Power

| 201 10 7 10 1 ag 5 a 1 0 10 1 | | | | | | | | |
|-------------------------------|-----------------|----------|-------|------------------|--------|--------|--|--|
| Mode | EGPRS850 (GMSK) | | | EGPRS1900 (GMSK) | | | | |
| Wode | EGPI | RS850 (8 | PSK) | EGPRS1900 (8PSK) | | | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 | | |
| Frequency(MHz) | 824.2 | 836.4 | 848.8 | 1850.2 | 1880.0 | 1909.8 | | |
| 4Described unlink Described | 23.88 | 23.91 | 23.89 | 20.94 | 20.95 | 20.88 | | |
| 4Downlink1uplinkPower(dBm) | 16.97 | 16.89 | 16.80 | 16.75 | 16.50 | 16.34 | | |
| 2Downlink?unlinkDowor(dPm) | 25.09 | 24.95 | 24.90 | 21.42 | 21.44 | 21.51 | | |
| 3Downlink2uplinkPower(dBm) | 19.29 | 19.80 | 19.54 | 19.39 | 19.10 | 19.17 | | |
| 2Downlink3uplinkPower(dBm) | 25.02 | 24.89 | 24.84 | 21.86 | 21.83 | 21.86 | | |
| 2DownlinkSupilitkPower(dBitt) | 19.61 | 19.79 | 19.84 | 19.34 | 18.97 | 18.71 | | |
| 1Downlink4uplinkPower(dBm) | 25.29 | 25.16 | 25.10 | 21.99 | 22.00 | 21.98 | | |
| 1Downlink4upilitkPower(dBiff) | 18.67 | 18.62 | 18.65 | 17.64 | 17.47 | 17.79 | | |

Division Factors (for Measured Power and Averaged Power):

To average the power, the division factor is as follows:

1TX-slot (4Downlink1uplink) = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots(3Downlink2uplink) = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots (2Downlink3uplink) = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots (1Downlink4uplink) = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

According to the conducted power as above, the body measurements are performed with 4Txslots (1Downlink4uplink) for EGPRS (GMSK).



6.3 WCDMA Measurement result

The following procedures are according to FCC KDB Publication 941225 D01. Release 99

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

| Mode | Subtest | Rel99 |
|------------------------|-------------------------|--------------|
| | Loopback Mode | Test Mode 1 |
| WCDMA Conoral Sottings | Rel99 RMC | 12.2kbps RMC |
| WCDMA General Settings | Power Control Algorithm | Algorithm2 |
| | βc/βd | 8/15 |

Measured Results

| Mode | | Band2 | | | Band4 | |
|-----------------------------------|--------|-------|--------|--------|--------|--------|
| Channel | 9262 | 9400 | 9538 | 1312 | 1412 | 1513 |
| Frequency(MHz) | 1852.4 | 1880 | 1907.6 | 1712.4 | 1732.4 | 1752.6 |
| RB test mode1+64kRMC(dBm) | 22.55 | 22.52 | 22.55 | 22.31 | 22.28 | 22.31 |
| RB test mode1+12.2kRMC(dBm) | 22.62 | 22.65 | 22.61 | 22.38 | 22.41 | 22.37 |
| RB test mode1+144kRMC(dBm) | 22.57 | 22.56 | 22.58 | 22.33 | 22.32 | 22.34 |
| RB test mode1+384kRMC(dBm) | 22.50 | 22.54 | 22.58 | 22.26 | 22.30 | 22.34 |
| AMR Voice test | 22.52 | 22.56 | 22.56 | 22.28 | 22.32 | 22.32 |
| mode+12.2kRMC(dBm) | 22.52 | 22.50 | 22.50 | 22.20 | 22.32 | 22.32 |
| Mode | | Band5 | | | | |
| Channel | 4132 | 4183 | 4233 | | | |
| Frequency(MHz) | 826.4 | 836.6 | 846.6 | | | |
| RB test mode1+64kRMC(dBm) | 22.39 | 22.45 | 22.52 | | | |
| RB test mode1+12.2kRMC(dBm) | 22.48 | 22.56 | 22.55 | | | |
| RB test mode1+144kRMC(dBm) | 22.41 | 22.36 | 22.37 | | | |
| RB test mode1+384kRMC(dBm) | 22.38 | 22.38 | 22.38 | | | |
| AMR Voice test mode+12.2kRMC(dBm) | 22.37 | 22.34 | 22.33 | | | |

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HSDPA

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121.

| Sub-test | β _c | β _d | β _d (SF) | β_{c}/β_{d} | $\beta_{hs}^{(1)}$ | CM(dB) (2) |
|----------|----------------------|----------------------|------------------------|-----------------------|--------------------|------------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 |
| 2 | 12/15 ⁽³⁾ | 15/15 ⁽³⁾ | 64 | 12/15 ⁽³⁾ | 24/15 | 1.0 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 |

Note1: \triangle_{ACK} , \triangle_{NACK} and \triangle_{CQI} =8 \Leftrightarrow A_{hs} = β_{hs}/β_c =30/15 \Leftrightarrow β_{hs} =30/15* β_c .

Note2:CM=1 for $\beta_{c}/\beta_{d}=12/15$, $\beta_{hs}/\beta_{c}=24/15$.

Note3:For subtest 2 the β_{c}/β_{d} ratio of 12/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_{c} =11/15 and β_{d} =15/15.

Measured Results

| Measured Results | | | | | | |
|------------------|--------|-----------|--------|--------|-----------|--------|
| Mode | HS | SDPA Band | 12 | HS | SDPA Band | 14 |
| Channel | 9262 | 9400 | 9538 | 1312 | 1412 | 1513 |
| Frequency(MHz) | 1852.4 | 1880 | 1907.6 | 1712.4 | 1732.4 | 1752.6 |
| sub-test1(dBm) | 21.10 | 21.10 | 21.20 | 20.80 | 20.80 | 20.90 |
| sub-test2(dBm) | 21.10 | 21.10 | 21.20 | 20.80 | 20.80 | 20.90 |
| sub-test3(dBm) | 20.60 | 20.60 | 20.80 | 20.30 | 20.30 | 20.50 |
| sub-test4(dBm) | 20.60 | 20.60 | 20.70 | 20.30 | 20.30 | 20.40 |
| Mode | HS | SDPA Band | 15 | | | |
| Channel | 4132 | 4183 | 4233 | | | |
| Frequency(MHz) | 826.4 | 836.6 | 846.6 | | | |
| sub-test1(dBm) | 20.70 | 20.80 | 20.90 | | | |
| sub-test2(dBm) | 20.80 | 20.80 | 20.90 | | | |
| sub-test3(dBm) | 20.20 | 20.40 | 20.40 | | | |
| sub-test4(dBm) | 20.30 | 20.40 | 20.40 | | | |

The State Radio_monitoring_center Testing Center (SRTC)
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HSPA (HSDPA & HSUPA)

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121.

| Sub-test | βc | β_{d} | β _d (SF) | β_{c}/β_{d} | $\beta_{hs}{}^{(1)}$ | β _{ec} | β_{ed} | β _{ed} (SF) | β _{ed} (codes) | CM ⁽²⁾ (dB) | MPR (dB) | AG ⁽⁴⁾ Index | E-TFCI |
|----------|----------------------|----------------------|------------------------|-----------------------|----------------------|-----------------|---|-------------------------|----------------------------|---------------------------|-------------|----------------------------|--------|
| 1 | 11/15 ⁽³⁾ | 15/15 ⁽³⁾ | 64 | 11/15 ⁽³⁾ | 22/15 | 209/225 | 1039/225 | 4 | 1 | 1.0 | 2.0 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | β_{ed1} :47/15 β_{ed2} :47/15 | 4 | 2 | 2.0 | 2.0 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 |
| 5 | 15/15 ⁽⁴⁾ | 15/15 ⁽⁴⁾ | 64 | 15/15 ⁽⁴⁾ | 30/15 | 24/15 | 134/15 | 4 | 1 | 1.0 | 2.0 | 21 | 81 |

Note1: Δ_{ACK} , Δ_{NACK} and Δ_{COI} =8 \Leftrightarrow A_{hs} = β_{hs}/β_c =30/15 \Leftrightarrow β_{hs} =30/15* β_c . Note2:CM=1 for β_c/β_d =12/15, β_hs/β_c =24/15.For all other combinations of DPDCH,DPCCH,HS-DPCCH and E-DPCCH the MPR is based on the relative CM difference.

Note3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for

the reference TFC(TF1,TF1) to β_c =10/15 and β_d =15/15. Note4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period(TF1,TF0) is achieved by setting the signaled gain factors for the reference TFC(TF1,TF1) to β_c =14/15 and β_d =15/15.

NOTE5: Testing UE using E-DPDCH Physical layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

NOTE6: βed can not be set directly; it is set by Absolute Grant Value.

Measured Results

| weasured Results | | | | | | |
|------------------|--------|----------|--------|--------|-----------|--------|
| Mode | HS | SUPA Ban | d 2 | Н | SUPA Band | 14 |
| Channel | 9262 | 9400 | 9538 | 1312 | 1412 | 1513 |
| Frequency(MHz) | 1852.4 | 1880 | 1907.6 | 1712.4 | 1732.4 | 1752.6 |
| sub-test1(dBm) | 19.40 | 19.40 | 19.40 | 19.10 | 19.10 | 19.10 |
| sub-test2(dBm) | 19.30 | 19.30 | 19.40 | 19.00 | 19.00 | 19.10 |
| sub-test3(dBm) | 19.40 | 19.40 | 19.40 | 19.10 | 19.10 | 19.10 |
| sub-test4(dBm) | 18.80 | 18.80 | 18.90 | 18.50 | 18.50 | 18.60 |
| sub-test5(dBm) | 21.30 | 21.40 | 21.30 | 21.00 | 21.10 | 21.00 |
| Mode | HS | SUPA Ban | d 5 | | | |
| Channel | 4132 | 4183 | 4233 | | | |
| Frequency(MHz) | 826.4 | 836.6 | 846.6 | | | |
| sub-test1(dBm) | 19.00 | 19.10 | 18.50 | | | |
| sub-test2(dBm) | 19.00 | 19.10 | 18.50 | | | |
| sub-test3(dBm) | 19.00 | 19.10 | 18.60 | | | |
| sub-test4(dBm) | 18.50 | 18.50 | 18.10 | | | |
| sub-test5(dBm) | 20.90 | 20.50 | 21.00 | | | |

UMTS SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01.

HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

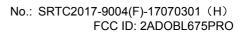
Tel: 86-10-5799 6183 Fax: 86-10-5799 6388 20170515V1.0.0



6.4 LTE Measurement result

Band 2

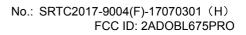
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | ITOL | Uplink(MHz) | Wodalation | Size | Offset | (dBm) |
| | | | | | | Low | 21.37 |
| | | | | | 1 | Mid | 21.49 |
| | | | | | | High | 21.32 |
| | | | | QPSK | | Low | 21.31 |
| | | | | | 50% | Mid | 21.02 |
| | | | | | | High | 21.22 |
| | 1.4 | 18607 | 1850.7 | | 100% | | 21.31 |
| | 1.4 | 10007 | 1030.7 | | | Low | 21.21 |
| | | | | | 1 | Mid | 21.64 |
| | | | | | | High | 21.19 |
| | | | | 16QAM | | Low | 21.17 |
| | | | | | 50% | Mid | 21.90 |
| | | | | | | High | 21.07 |
| Low Range | | | | | 100% | | 21.31 |
| Low Italige | | | | | | Low | 21.09 |
| | | | | | 1 | Mid | 21.74 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 21.03 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.08 |
| | 3 | 18615 | 1851.5 | | 100% | | 21.04 |
| | 3 | 10013 | 1001.0 | | | Low | 21.95 |
| | | | | | 1 | Mid | 21.73 |
| | | | | | | High | 21.92 |
| | | | | 16QAM | | Low | 21.06 |
| | | | | | 50% | Mid | 21.12 |
| | | | | | | High | 21.08 |
| | | | | | 100% | | 21.11 |



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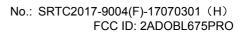
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.14 |
| | | | | | 1 | Mid | 21.75 |
| | | | | | | High | 21.04 |
| | | | | QPSK | | Low | 21.07 |
| | | | | | 50% | Mid | 21.03 |
| | | | | | | High | 21.09 |
| | 5 | 18625 | 1852.5 | | 100% | | 21.99 |
| | 5 | 10023 | 1032.3 | | | Low | 21.99 |
| | | | | | 1 | Mid | 21.75 |
| | | | | | | High | 21.84 |
| | | | | 16QAM | | Low | 21.05 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.03 |
| Low Range | | | | | 100% | | 21.01 |
| Low Range | | | | | | Low | 21.24 |
| | | | | | 1 | Mid | 21.25 |
| | | | | | | High | 21.16 |
| | | | | QPSK | | Low | 21.06 |
| | | | | | 50% | Mid | 21.97 |
| | | | | | | High | 21.03 |
| | 10 | 18650 | 1855 | | 100% | | 21.99 |
| | 10 | 10030 | 1000 | | | Low | 21.06 |
| | | | | | 1 | Mid | 21.31 |
| | | | | | | High | 21.93 |
| | | | | 16QAM | | Low | 21.09 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.03 |
| | | | | | 100% | | 20.96 |



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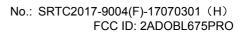
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.95 |
| | | | | | | High | 21.18 |
| | | | | QPSK | | Low | 21.02 |
| | | | | | 50% | Mid | 21.98 |
| | | | | | | High | 21.96 |
| | 15 | 18675 | 1857.5 | | 100% | | 21.04 |
| | 15 | 10075 | 1007.0 | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.05 |
| | | | | | | High | 21.98 |
| | | | | 16QAM | | Low | 21.01 |
| | | | | | 50% | Mid | 20.97 |
| | | | | | | High | 20.96 |
| Low Range | | | | | 100% | | 21.00 |
| Low Range | | | | | | Low | 22.50 |
| | | | | | 1 | Mid | 22.21 |
| | | | | | | High | 22.17 |
| | | | | QPSK | | Low | 22.20 |
| | | | | | 50% | Mid | 21.96 |
| | | | | | | High | 21.98 |
| | 20 | 18700 | 1860 | | 100% | | 21.99 |
| | 20 | 10700 | 1000 | | | Low | 21.12 |
| | | | | | 1 | Mid | 21.32 |
| | | | | | | High | 21.94 |
| | | | | 16QAM | | Low | 20.97 |
| | | | | | 50% | Mid | 20.95 |
| | | | | | | High | 20.93 |
| | | | | | 100% | | 21.01 |



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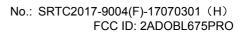
| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------|------------|------------|--------------|--------------------------|
| | | | | | | Low | 21.02 |
| | | | | | 1 | Mid | 21.11 |
| | | | | | | High | 21.03 |
| | | | | QPSK | | Low | 21.80 |
| | | | | | 50% | Mid | 21.70 |
| | | | | | | High | 21.88 |
| | 1.4 | 18900 | 1880 | | 100% | | 21.92 |
| | 1.4 | 10300 | 1000 | | | Low | 21.89 |
| | | | | | 1 | Mid | 21.28 |
| | | | | | | High | 21.91 |
| | | | | 16QAM | 50% | Low | 21.89 |
| | | | | | | Mid | 21.54 |
| | | | | | 4000/ | High | 21.78 |
| Mid Range | | | | | 100% | | 20.97 |
| | | | | | 1 | Low | 21.06 |
| | | | | | | Mid | 21.50 21.97 |
| | | | | QPSK | | High Low | 21.97 |
| | | | | QFSK | 50% | Mid | 21.87 |
| | | | | | 30 /0 | High | 21.88 |
| | | | | | 100% | | 21.88 |
| | 3 | 18900 | 1880 | | 10070 | Low | 21.90 |
| | | | | | 1 | Mid | 21.76 |
| | | | | | | High | 21.87 |
| | | | | 16QAM | | Low | 20.98 |
| | | | | | 50% | Mid | 21.02 |
| | | | | | 30 /0 | High | 21.03 |
| | | | | | 100% | | 20.96 |



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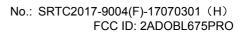
| Test | Bandwidth | | Frequency of | Madulatian | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | , | | , , | | | Low | 21.06 |
| | | | | | 1 | Mid | 21.60 |
| | | | | | | High | 21.97 |
| | | | | QPSK | | Low | 21.93 |
| | | | | | 50% | Mid | 21.87 |
| | | | | | | High | 21.88 |
| 5 | 5 | 19000 | 1000 | | 100% | | 21.80 |
| | 5 | 18900 | 1880 | | | Low | 21.94 |
| | | | | | 1 | Mid | 21.73 |
| | | | | | | High | 21.85 |
| | | | | 16QAM | | Low | 20.91 |
| | | | | | 50% | Mid | 20.87 |
| | | | | | | High | 20.89 |
| Mid Dange | | | | | 100% | | 20.92 |
| Mid Range | | | | | | Low | 21.15 |
| | | | | | 1 | Mid | 21.18 |
| | | | | | | High | 21.07 |
| | | | | QPSK | | Low | 21.88 |
| | | | | | 50% | Mid | 21.86 |
| | | | | | | High | 21.89 |
| | 10 | 18900 | 1880 | | 100% | | 21.92 |
| | 10 | 10900 | 1000 | | | Low | 21.97 |
| | | | | | 1 | Mid | 21.34 |
| | | | | | | High | 21.91 |
| | | | | 16QAM | | Low | 21.00 |
| | | | | | 50% | Mid | 20.95 |
| | | | | | | High | 20.97 |
| | | | | | 100% | | 20.95 |



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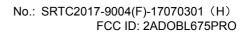
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.17 |
| | | | | | 1 | Mid | 21.85 |
| | | | | | | High | 21.06 |
| | | | | QPSK | | Low | 21.97 |
| | | | | | 50% | Mid | 21.93 |
| | | | | | | High | 21.92 |
| | 15 | 18900 | 1880 | | 100% | | 21.92 |
| | 15 | 10900 | 1000 | | | Low | 21.99 |
| | | | | | 1 | Mid | 21.01 |
| | | | | | | High | 21.89 |
| | | | | 16QAM | | Low | 20.97 |
| | | | | | 50% | Mid | 20.95 |
| | | | | | | High | 20.96 |
| Mid Range | | | | | 100% | | 20.96 |
| Iviid range | | | | | | Low | 22.80 |
| | | | | | 1 | Mid | 22.07 |
| | | | | | | High | 22.04 |
| | | | | QPSK | | Low | 22.50 |
| | | | | | 50% | Mid | 21.87 |
| | | | | | | High | 21.88 |
| | 20 | 18900 | 1880 | | 100% | | 21.88 |
| | 20 | 10900 | 1000 | | | Low | 21.99 |
| | | | | | 1 | Mid | 21.28 |
| | | | | | | High | 21.84 |
| | | | | 16QAM | | Low | 20.92 |
| | | | | | 50% | Mid | 20.91 |
| | | | | | | High | 20.88 |
| | | | | | 100% | | 20.95 |



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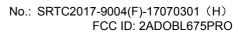
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.83 |
| | | | | 1 | 1 | Mid | 21.93 |
| | | | | | High | 21.83 | |
| | | | | QPSK | | Low | 21.76 |
| | | | | | 50% | Mid | 21.50 |
| | | | | | | High | 21.69 |
| | 1.4 | 19193 | 1000.2 | | 100% | | 21.81 |
| | 1.4 | 19193 | 1909.3 | 1909.3 | | Low | 21.67 |
| | | | | | 1 | Mid | 21.09 |
| | | | | | | High | 21.69 |
| | | | | 16QAM | | Low | 21.63 |
| | | | | | 50% | | 21.37 |
| | | | | | High | 21.53 | |
| High Dongs | | | | 100% | | 20.82 | |
| High Range | | | | | | Low | 21.72 |
| | | | | 1 | Mid | 21.47 | |
| | | | | | | High | 21.78 |
| | | | | QPSK | | Low | 21.72 |
| | | | | | 50% | Mid | 21.79 |
| | | | | QPSK 50% | High | 21.68 | |
| | 3 | 19185 | 1908.5 | | 100% | | 21.71 |
| | 3 | 19105 | 1906.5 | | | Low | 21.59 |
| | | | | | 1 | Mid | 21.48 |
| | | | | | | High | 21.62 |
| | | | | 16QAM | | Low | 20.71 |
| | | | | | 50% | Mid | 20.83 |
| | | | | | | High | 20.75 |
| | | | | | 100% | | 20.78 |



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| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------|---------------|------------|--------------|--------------------------|
| | | | | | 1 | Low | 21.87 |
| | | | | | | Mid | 21.49 |
| | | | | | | High | 21.79 |
| | | | | QPSK | | Low | 21.81 |
| | | | | | 50% | Mid | 21.73 |
| | | | | | High | 21.79 | |
| | 5 | 19175 | 1907.5 | | 100% | | 21.70 |
| | Ü | 10110 | 1307.3 | 16QAM QPSK | | Low | 21.64 |
| | | | | | 50% | Mid | 21.50 |
| | | | | | | High | 21.63 |
| | | | | | | Low | 20.77 |
| | | | | | | Mid | 20.70 |
| | | | | | 4000/ | High | 20.76 |
| High Range | | | | | 100% | | 20.73 |
| | | | | | 1 | Low | 21.93 |
| | | | | | | Mid | 21.97 |
| | | | | | 50% | High Low | 21.86 21.85 |
| | | | | | | Mid | 21.78 |
| | | | | | | High | 21.79 |
| | | | | | 100% | | 21.73 |
| | 10 | 19150 | 1905 | | 10070 | Low | 21.65 |
| | | | | | 1 | Mid | 21.03 |
| | | | | | ' | High | 21.68 |
| | | | | 16QAM | 50% | Low | 20.82 |
| | | | | 100,111 | | Mid | 20.76 |
| | | | | | | High | 20.77 |
| | | | | | 100% | | 20.68 |



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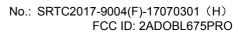


| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|-------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.99 |
| | | QPSK | | | 1 | Mid | 21.78 |
| | | | | High | 21.90 | | |
| | | | | QPSK | | Low | 21.73 |
| | | | | | 50% | Mid | 21.66 |
| | | | | | | High | 21.71 |
| | 15 | 19125 | 1902.5 | | 100% | | 21.80 |
| | 15 | 19125 | 1902.5 | | | Low | 21.78 |
| | | | | | 1 | Mid | 21.79 |
| | | | | 16QAM | | High | 21.73 |
| | | | | | 50% | Low | 20.70 |
| | | | | | | Mid | 20.63 |
| | | | | | | High | 20.71 |
| High Dange | | | | 100% | | 20.73 | |
| High Range | | | | 1 | Low | 22.20 | |
| | | | | | 1 | Mid | 21.99 |
| | | | | | | High | 21.90 |
| | | | | QPSK | | Low | 22.00 |
| | | | | | 50% | Mid | 21.74 |
| | | | | | | High | 21.70 |
| | 20 | 19100 | 1900 | | 100% | | 21.71 |
| | 20 | 19100 | 1900 | | | Low | 21.88 |
| | | | | | 1 | Mid | 21.02 |
| | | | | | | High | 21.66 |
| | | | | 16QAM | 50% | Low | 20.74 |
| | | | | | | Mid | 20.68 |
| | | | | | | High | 20.69 |
| | | | | | 100% | | 20.73 |



Band 4

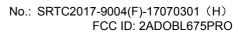
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|----------------|--------|--------------|
| Frequency ID | (MHz) | 1102 | Uplink(MHz) | modulation | Size | Offset | (dBm) |
| | | | | | 1 | Low | 21.47 |
| | | | | | | Mid | 21.58 |
| | | | | | | High | 21.45 |
| | | | QPSK | QPSK | | Low | 21.41 |
| | | | | 50% | Mid | 21.10 | |
| | | | | | | High | 21.25 |
| | 1.4 | 19957 | 1710 7 | | 100% | | 21.47 |
| | 1.4 | 19957 | 17 10.7 | 1710.7 | | Low | 21.31 |
| | | | | | 1 | Mid | 21.73 |
| | | | | | | High | 21.31 |
| | | | | 16QAM | Low 50% Mid | 21.27 | |
| | | | | | | Mid | 20.99 |
| | | | | High | 21.19 | | |
| Low Range | | | 100% | | 20.43 | | |
| Low Italige | | | | | | Low | 21.36 |
| | | | | 1 | Mid | 21.03 | |
| | | | | | | High | 21.41 |
| | | | | QPSK | 50% | Low | 21.36 |
| | | | | | | Mid | 21.43 |
| | | | | | | High | 21.37 |
| | 3 | 19965 | 1711.5 | | 100% | | 21.38 |
| | 3 | 19905 | 1711.5 | | | Low | 21.26 |
| | | | | | 1 | Mid | 21.13 |
| | | | | | | High | 21.26 |
| | | | | 16QAM | 50% | Low | 20.31 |
| | | | | | | Mid | 20.39 |
| | | | | | | High | 20.40 |
| | | | | | 100% | | 20.42 |



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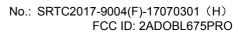
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|-------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | 1 | Low | 21.47 |
| | | | | | | Mid | 21.10 |
| | | | | | | High | 21.39 |
| | | | QPSK | | Low | 21.39 | |
| | | | | | 50% | Mid | 21.33 |
| | | | | | | High | 21.38 |
| | 5 | 19975 | 1712.5 | | 100% | | 21.27 |
| | 5 | 19975 | 17 12.5 | | | Low | 21.32 |
| | | | | | 1 | Mid | 21.18 |
| | | | | | | High | 21.31 |
| | | 16QAM | | Low | 20.32 | | |
| | | | 50% | Mid | 20.26 | | |
| | | | | High | 20.30 | | |
| Low Range | | | 1 | 100% | | 20.28 | |
| Low Range | | | | | | Low | 21.45 |
| | | | | | 1 | Mid | 21.51 |
| | | | | | | High | 21.45 |
| | | | | QPSK | | Low | 21.32 |
| | | | | | 50% | Mid | 21.26 |
| | | | | | | High | 21.31 |
| | 10 | 20000 | 1715 | | 100% | | 21.29 |
| | 10 | 20000 | 1713 | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.68 |
| | | | | | | High | 21.33 |
| | | | | 16QAM | 50% | Low | 20.32 |
| | | | | | | Mid | 20.28 |
| | | | | | | High | 20.26 |
| | | | | | 100% | | 20.25 |



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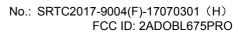
| Test | Bandwidth | NII II | Frequency of | Madulation | RB | RB | Test results |
|--------------|-----------|--------|--------------|------------|-------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | , , , | | 1 | Low | 21.43 |
| | | | | | | Mid | 21.23 |
| | | | | High | 21.49 | | |
| | | | | QPSK | | Low | 21.35 |
| | | | | | 50% | Mid | 21.31 |
| | | | | | | High | 21.29 |
| | 15 | 20025 | 1717.5 | | 100% | | 21.32 |
| | 15 | 20025 | 17 17.5 | | | Low | 21.33 |
| | | | | | 1 | Mid | 21.41 |
| | | | | 16QAM | | High | 21.36 |
| | | | | | 50% | Low | 20.35 |
| | | | | | | Mid | 20.36 |
| | | | | | | High | 20.31 |
| Low Pango | | | | 100% | | 20.30 | |
| Low Range | | | | 1 | Low | 21.80 | |
| | | | | | 1 | Mid | 21.45 |
| | | | | | | High | 21.46 |
| | | | | QPSK | | Low | 21.80 |
| | | | | | 50% | Mid | 21.31 |
| | | | | | | High | 21.29 |
| | 20 | 20050 | 1720 | | 100% | | 21.26 |
| | 20 | 20030 | 1720 | | | Low | 21.35 |
| | | | | | 1 | Mid | 21.70 |
| | | | | | | High | 21.31 |
| | | | | 16QAM | 50% | Low | 20.27 |
| | | | | | | Mid | 20.26 |
| | | | | | | High | 20.28 |
| | | | | | 100% | | 20.28 |



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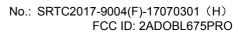
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| - | | | | | | Low | 21.27 |
| | | | | | 1 | Mid | 21.39 |
| | | | | | | High | 21.20 |
| | | | | QPSK | | Low | 21.21 |
| | | | | | 50% | Mid | 21.94 |
| 1.4 | | | | | | High | 21.10 |
| | 1.4 | 20175 | 1732.5 | | 100% | | 21.23 |
| | 1.4 | 20175 | 1732.3 | | | Low | 21.13 |
| | | | | | 1 | Mid | 21.54 |
| | | | | | | High | 21.12 |
| | | | | 16QAM | 50% | Low | 21.08 |
| | | | | | | Mid | 20.80 |
| | | | | | | High | 20.99 |
| Mid Dange | | | | | 100% | | 20.21 |
| Mid Range | | | | | | Low | 21.25 |
| | | | | | 1 | Mid | 21.85 |
| | | | | | | High | 21.24 |
| | | | | QPSK | | Low | 21.20 |
| | | | | | 50% | Mid | 21.27 |
| | | | | | | High | 21.25 |
| | 3 | 20175 | 1732.5 | | 100% | | 21.20 |
| | 3 | 20173 | 1732.3 | | | Low | 21.14 |
| | | | | | 1 | Mid | 21.96 |
| | | | | | | High | 21.10 |
| | | | | 16QAM | | Low | 20.21 |
| | | | | | 50% | Mid | 20.31 |
| | | | | | | High | 20.25 |
| | | | | | 100% | | 20.26 |



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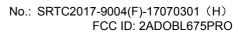
| Test | Bandwidth | | Frequency of | | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | , | | | | | Low | 21.31 |
| | | | | | 1 | Mid | 21.82 |
| | | | | | | High | 21.23 |
| | | | | QPSK | | Low | 21.25 |
| | | | | | 50% | Mid | 21.14 |
| 5 | | | | | | High | 21.23 |
| | _ | 20175 | 1720 F | | 100% | | 21.14 |
| | 5 | 20175 | 1732.5 | | | Low | 21.19 |
| | | | | | 1 | Mid | 21.95 |
| | | | | | | High | 21.07 |
| | | | | 16QAM | | Low | 20.17 |
| | | | | | 50% | Mid | 20.10 |
| | | | | | | High | 20.14 |
| Mid Donas | | | | | 100% | | 20.16 |
| Mid Range | | | | | | Low | 21.40 |
| | | | | | 1 | Mid | 21.37 |
| | | | | | | High | 21.31 |
| | | | | QPSK | | Low | 21.18 |
| | | | | | 50% | Mid | 21.11 |
| | | | | | | High | 21.19 |
| | 10 | 20175 | 1732.5 | | 100% | | 21.16 |
| | | | | | | Low | 21.26 |
| | | | | | 1 | Mid | 21.54 |
| | | | | | | High | 21.12 |
| | | | | 16QAM | | Low | 20.21 |
| | | | | | 50% | Mid | 20.14 |
| | | | | | | High | 20.18 |
| | | | | | 100% | | 20.12 |



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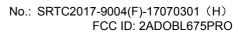
| Test | Bandwidth | NII II | Frequency of | Madulatian | RB | RB | Test results |
|--------------|-----------|--------|--------------|------------|------|---------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| - | | | | | | Low | 21.86 |
| | | | | | 1 | Mid | 21.06 |
| | | | | | | High | 21.32 |
| | | | | QPSK | | Low | 21.18 |
| | | | | | 50% | Mid | 21.13 |
| 15 | | | | | | High | 21.14 |
| | 15 | 20175 | 1732.5 | | 100% | | 21.16 |
| | 15 | 20173 | 1732.5 | | | Low | 21.23 |
| | | | | | 1 | Mid | 21.22 |
| | | | | | | High | 21.11 |
| | | | | 16QAM | | Low | 20.14 |
| | | | | | 50% | 50% Mid | 20.12 |
| | | | | | | High | 20.09 |
| Mid Donas | | | | | 100% | | 20.14 |
| Mid Range | | | | | | Low | 22.00 |
| | | | | | 1 | Mid | 21.36 |
| | | | | | | High | 21.39 |
| | | | | QPSK | | Low | 22.00 |
| | | | | | 50% | Mid | 21.57 |
| | | | | | | High | 21.58 |
| | 20 | 20175 | 1732.5 | | 100% | | 21.54 |
| | | | | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.52 |
| | | | | | | High | 21.13 |
| | | | | 16QAM | | Low | 20.18 |
| | | | | | 50% | Mid | 20.13 |
| | | | | | | High | 20.09 |
| | | | | | 100% | | 20.19 |



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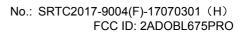
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results | |
|---------------|-----------|-------|--------------|------------|------|--------|--------------|-------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) | |
| | | | | | | Low | 21.38 | |
| | | | | | 1 | Mid | 21.45 | |
| | | | | | | High | 21.37 | |
| | | | | QPSK | | Low | 21.30 | |
| | | | | | 50% | Mid | 21.02 | |
| 1.4 | | | | | | High | 21.21 | |
| | 1.4 | 20393 | 1754.3 | | 100% | | 21.33 | |
| | 1.4 | 20393 | 1754.5 | | | Low | 21.25 | |
| | | | | | 1 | Mid | 21.63 | |
| | | | | | | High | 21.23 | |
| | | | | 16QAM | 50% | Low | 21.20 | |
| | | | | | | Mid | 20.88 | |
| | | | | | | High | 21.08 | |
| High Range | | | | | 100% | | 20.34 | |
| riigii Karige | | | | | | Low | 21.37 | |
| | | | | | 1 | Mid | 21.00 | |
| | | | | | | High | 21.40 | |
| | | | | QPSK | | Low | 21.30 | |
| | | | | | 50% | Mid | 21.34 | |
| | | | | | | High | 21.30 | |
| | 3 | 20385 | 1753.5 | | 100% | | 21.34 | |
| |] | 20303 | 1733.3 | | | Low | 21.27 | |
| | | | | | 1 | Mid | 21.09 | |
| | | | | | | High | 21.26 | |
| | | | | 16QAM | | Low | 20.32 | |
| | | | | | - | 50% | Mid | 20.39 |
| | | | | | | | High | 20.36 |
| | | | | | 100% | | 20.38 | |



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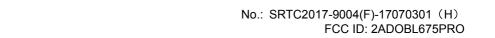
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.40 |
| | | | | | 1 | Mid | 21.99 |
| | | | | | | High | 21.36 |
| | | | | QPSK | | Low | 21.38 |
| | | | | | 50% | Mid | 21.30 |
| 5 | | | | | | High | 21.29 |
| | _ | 20375 | 1752.5 | | 100% | | 21.20 |
| | 5 | 20375 | 1732.3 | | | Low | 21.22 |
| | | | | | 1 | Mid | 21.09 |
| | | | | | | High | 21.20 |
| | | | | 16QAM | 50% | Low | 20.27 |
| | | | | | | Mid | 20.23 |
| | | | | | | High | 20.25 |
| High Dange | | | | | 100% | | 20.26 |
| High Range | | | | | | Low | 21.38 |
| | | | | | 1 | Mid | 21.46 |
| | | | | | | High | 21.51 |
| | | | | QPSK | | Low | 21.23 |
| | | | | | 50% | Mid | 21.24 |
| | | | | | | High | 21.23 |
| | 10 | 20350 | 1750 | | 100% | | 21.25 |
| | 10 | 20330 | 1730 | | | Low | 21.27 |
| | | | | | 1 | Mid | 21.62 |
| | | | | | | High | 21.30 |
| | | | | 16QAM | | Low | 20.29 |
| | | | | .00 | 50% | Mid | 20.27 |
| | | | | | | High | 20.33 |
| | | | | | 100% | | 20.26 |



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| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.73 |
| | | | | | 1 | Mid | 21.21 |
| | | | | | | High | 21.53 |
| | | | | QPSK | | Low | 21.27 |
| | | | | | 50% | Mid | 21.25 |
| | | | | | | High | 21.31 |
| | 15 | 20225 | 1747 5 | | 100% | | 21.30 |
| | 15 | 20325 | 1747.5 | | | Low | 21.21 |
| | | | | | 1 | Mid | 21.36 |
| | | | | | | High | 21.37 |
| | | | | 16QAM | 50% | Low | 20.21 |
| | | | | | | Mid | 20.23 |
| | | | | | | High | 20.32 |
| High Dongs | | | | | 100% | | 20.29 |
| High Range | | | | | | Low | 21.50 |
| | | | | | 1 | Mid | 21.47 |
| | | | | | | High | 21.50 |
| | | | | QPSK | | Low | 21.50 |
| | | | | | 50% | Mid | 21.29 |
| | | | | | | High | 21.34 |
| | 20 | 20300 | 1745 | | 100% | | 21.29 |
| | 20 | 20300 | 1745 | | | Low | 21.25 |
| | | | | | 1 | Mid | 21.63 |
| | | | | | | High | 21.34 |
| | | | | 16QAM | | Low | 20.21 |
| | | | | 100,111 | 50% | Mid | 20.23 |
| | | | | | 33,3 | High | 20.27 |
| | | | | | 100% | | 20.25 |



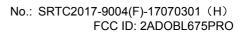


Band 5

| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | ITOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | QPSK | | Low | 21.20 |
| | | | | | 50% | Mid | 21.20 |
| 1.4 | | | | | | High | 21.20 |
| | 1.4 | 20407 | 821.7 | | 100% | | 21.20 |
| | 1.4 | 20407 | 021.7 | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | 16QAM | | Low | 21.20 |
| | | | | | 50% | Mid | 21.20 |
| | | | | | | High | 21.10 |
| Low Range | | | | | 100% | | 21.10 |
| Low Italige | | | | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | | | | QPSK | | Low | 21.00 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | 3 | 20415 | 825.5 | | 100% | | 21.00 |
| | 3 | 20413 | 023.3 | | | Low | 21.00 |
| | | | | | 1 | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | | | | 16QAM | | Low | 21.00 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | | | | | 100% | | 21.00 |

The State Radio_monitoring_center Testing Center (SRTC)
Tel: 86-10-5799 6183
Fax: 86-10-5799 6388 20170515V1.0.0

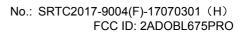
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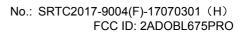
| Test | Bandwidth | NII II | Frequency of | Madulatian | RB | RB | Test results |
|--------------|-----------|--------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| | | | | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| 5 | | | | | | High | 21.10 |
| | 5 | 20425 | 926 5 | | 100% | | 21.10 |
| | 5 | 29425 | 826.5 | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | 16QAM | 50% | Low | 21.30 |
| | | | | | | Mid | 21.30 |
| | | | | | | High | 21.20 |
| Low Bongo | | | | | 100% | | 21.20 |
| Low Range | | | | | | Low | 22.00 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 22.00 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | 10 | 20450 | 829 | | 100% | | 21.10 |
| | 10 | 20430 | 029 | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | 16QAM | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | | 100% | | 21.10 |



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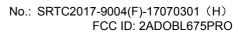
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | | Uplink(MHz) | | Size | Offset | (dBm) |
| | | | | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 21.20 |
| | | | | | 50% | Mid | 21.10 |
| 1.4 | | | | | | High | 21.10 |
| | 1 4 | 20525 | 836.5 | | 100% | | 21.10 |
| | 20020 | 000.0 | | | Low | 21.20 | |
| | | | | 1 | Mid | 21.20 | |
| | | | | | | High | 21.20 |
| | | | | 16QAM | 50% | Low | 21.20 |
| | | | | | | Mid | 21.20 |
| | | | | | | High | 21.20 |
| Mid Range | | | | | 100% | | 21.20 |
| Wild Karige | | | | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | 3 | 20525 | 836.5 | | 100% | | 21.10 |
| | 3 | 20323 | 030.3 | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | 16QAM | | Low | 21.10 |
| | | | | 100/11 | 50% | Mid | 21.10 |
| | | | | | 33,0 | High | 21.10 |
| | | | | | 100% | | 21.10 |



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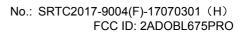
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results | |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|-------|
| Frequency ID | (MHz) | NOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) | |
| | | | | | | Low | 21.30 | |
| | | | | | 1 | Mid | 21.30 | |
| | | | | | | High | 21.30 | |
| | | | | QPSK | | Low | 21.30 | |
| | | | | | 50% | Mid | 21.30 | |
| | | | | | | High | 21.30 | |
| 5 | 5 | 20525 | 836.5 | | 100% | | 21.30 | |
| | 20323 | 630.5 | | | Low | 21.50 | | |
| | | | | 1 | Mid | 21.50 | | |
| | | | | | | High | 21.50 | |
| | | | | 16QAM | | Low | 21.40 | |
| | | | | | 50% | Mid | 21.40 | |
| | | | | | | High | 21.40 | |
| Mid Danse | | | | | 100% | | 21.40 | |
| Mid Range | | | | | | Low | 22.20 | |
| | | | | | 1 | Mid | 21.20 | |
| | | | | | | High | 21.10 | |
| | | | | QPSK | | Low | 22.30 | |
| | | | | | 50% | Mid | 21.10 | |
| | | | | | | High | 21.10 | |
| | 10 | 20525 | 836.5 | | 100% | | 21.10 | |
| | | | 000.0 | | | Low | 21.00 | |
| | | | | | 1 | Mid | 21.10 | |
| | | | | | | High | 21.10 | |
| | | | | 16QAM | | Low | 21.10 | |
| | | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.10 | |
| | | | | | 100% | | 21.10 | |



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| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results | |
|---------------|-----------|-------|--------------|------------|------|--------|--------------|-------|
| Frequency ID | (MHz) | IVOL | Uplink(MHz) | Modulation | Size | Offset | (dBm) | |
| | | | | | | Low | 21.50 | |
| | | | | | 1 | Mid | 21.00 | |
| | | | | | | High | 21.60 | |
| | | | | QPSK | | Low | 21.00 | |
| | | | | | 50% | Mid | 21.10 | |
| | | | | | | High | 21.00 | |
| | 1.4 | 20643 | 848.3 | | 100% | | 21.00 | |
| | 1.4 | 20043 | 040.5 | | | Low | 21.10 | |
| | | | | | 1 | Mid | 21.10 | |
| | | | | | | High | 21.10 | |
| | | | | 16QAM | | Low | 21.10 | |
| | | | | | 50% | Mid | 21.10 | |
| | | | | | | High | 21.10 | |
| High Range | | | | | 100% | | 21.10 | |
| I light Kange | | | | | | Low | 21.00 | |
| | | | | | 1 | Mid | 21.50 | |
| | | | | | | High | 21.60 | |
| | | | | QPSK | | Low | 21.00 | |
| | | | | | 50% | Mid | 21.70 | |
| | | | | | | High | 21.70 | |
| | 3 | 20635 | 847.5 | | 100% | | 21.10 | |
| | 3 | 20033 | 047.5 | | | Low | 21.00 | |
| | | | | | 1 | Mid | 21.00 | |
| | | | | | | High | 21.00 | |
| | | | | 16QAM | | Low | 21.00 | |
| | | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.00 | |
| | | | | | 100% | | 21.00 | |



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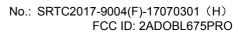
| Test | Bandwidth | NUL | Frequency of | Modulation | RB | RB | Test results |
|--------------|-----------|-------|--------------|------------|------|--------|--------------|
| Frequency ID | (MHz) | NUL | Uplink(MHz) | Modulation | Size | Offset | (dBm) |
| - | | | | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| 5 | | | | | | High | 21.10 |
| | _ | 20625 | 846.5 | | 100% | | 21.10 |
| | 5 | 20025 | 040.5 | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | 16QAM | 50% | Low | 21.20 |
| | | | | | | Mid | 21.20 |
| | | | | | | High | 21.20 |
| High Dange | | | | | 100% | | 21.20 |
| High Range | | | | | | Low | 21.80 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | QPSK | | Low | 22.00 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | 10 | 20600 | 844 | | 100% | | 21.10 |
| | 10 | 20000 | 044 | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | 16QAM | | Low | 21.10 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.10 |
| | | | | | 100% | | 21.10 |

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Band 7

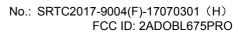
| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------------|------------|------------|--------------|--------------------|
| | | | | | | Low | 21.40 |
| | | | | | 1 | Mid | 21.30 |
| | | | | | | High | 21.40 |
| | | | | QPSK | | Low | 21.40 |
| | | | | | 50% | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | 5 | 20775 | 2502.5 | | 100% | | 21.30 |
| |] | 20113 | 2302.3 | 16QAM | | Low | 20.60 |
| | | | | | 1 | Mid | 20.60 |
| | | | | | | High | 21.10 |
| | | | | | 50% | Low | 20.60 |
| | | | | | | Mid | 20.50 |
| | | | | | | High | 20.90 |
| Low | | | | | 100% | | 20.60 |
| Range | | | | | 1 | Low | 21.20 |
| | | | | | | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | QPSK | | Low | 21.20 |
| | | | | | 50% | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | 10 | 20800 | 2505 | | 100% | | 21.10 |
| | 10 | 20000 | 2000 | | | Low | 21.20 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | 16QAM | | Low | 21.20 |
| | | | | | 50% | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | | 100% | | 21.10 |



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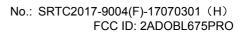
| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------|------------|------------|--------------|--------------------|
| | | | | | 1 | Low | 21.70 |
| | | | | | | Mid | 21.70 |
| | | | | | | High | 21.70 |
| | | | | QPSK | | Low | 21.70 |
| | | | | | 50% | Mid | 21.70 |
| | | | | | | High | 21.70 |
| | 15 | 20825 | 2507.5 | | 100% | | 21.70 |
| | 13 | 20023 | 2507.5 | 16QAM | | Low | 20.60 |
| | | | | | 1 | Mid | 20.80 |
| | | | | | | High | 20.60 |
| | | | | | 50% | Low | 21.40 |
| | | | | | | Mid | 21.30 |
| | | | | | | High | 21.30 |
| Low Range | | | | | 100% | | 21.40 |
| Low range | | | | | 1 | Low | 21.60 |
| | | | | | | Mid | 21.60 |
| | | | | | | High | 21.60 |
| | | | | QPSK | | Low | 21.40 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | 20 | 20850 | 2510 | | 100% | | 21.80 |
| | | | | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.30 |
| | | | | 400 114 | | High | 21.20 |
| | | | | 16QAM | 50% | Low | 21.30 |
| | | | | | | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | | 100% | | 21.30 |



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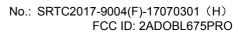
| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------|------------|------------|--------------|--------------------------|
| | | | | | 1 | Low | 21.50 |
| | | | | | | Mid | 21.50 |
| | | | | | | High | 21.50 |
| | | | | QPSK | | Low | 21.50 |
| | | | | | 50% | Mid | 21.50 |
| | | | | | | High | 21.50 |
| | 5 | 21100 | 2535 | | 100% | | 21.50 |
| | 9 | 21100 | 2000 | 16QAM | | Low | 20.80 |
| | | | | | 1 | Mid | 20.80 |
| | | | | | | High | 20.60 |
| | | | | | 50% | Low | 20.60 |
| | | | | | | Mid | 20.80 |
| | | | | | 1000/ | High | 20.60 |
| Mid Range | | | | ODOK | 100% | | 20.50 |
| | | | | | 1 | Low | 21.70 |
| | | | | | | Mid | 21.70 |
| | | | | | | High | 21.70 21.90 |
| | | | | QPSK | 50% | Low Mid | 21.00 |
| | | | | | 30 /6 | High | 21.00 |
| | | | | | 100% | | 21.90 |
| | 10 | 21100 | 2535 | | 100 /0 | Low | 21.00 |
| | | | | | 1 | Mid | 21.00 |
| | | | | | ' | High | 21.00 |
| | | | | 16QAM | | Low | 21.00 |
| | | | | 100,111 | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | | 100% | | 21.10 |



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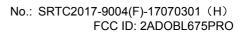
| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------------|------------|------------|--------------|--------------------|
| | | | , , | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.20 |
| | | | | | | High | 21.20 |
| | | | | QPSK | | Low | 21.30 |
| | | | | | 50% | Mid | 21.40 |
| | | | | | | High | 21.20 |
| | 15 | 21100 | 2535 | | 100% | | 21.10 |
| | 13 | 21100 | 2333 | 16QAM | | Low | 21.00 |
| | | | | | 1 | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | | | | | 50% | Low | 21.00 |
| | | | | | | Mid | 21.00 |
| | | | | | | High | 21.10 |
| Mid | | | | | 100% | | 21.10 |
| Range | | | | | 1 | Low | 21.40 |
| | | | | | | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | QPSK | | Low | 21.50 |
| | | | | | 50% | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | 20 | 21100 | 2535 | | 100% | | 21.10 |
| | | 21100 | 2000 | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | 16QAM | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | | | | | 100% | | 21.10 |



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| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------------|------------|------------|--------------|--------------------|
| | | | | | | Low | 21.10 |
| | | | | | 1 | Mid | 21.10 |
| | | | | | High | 21.10 | |
| | | | | QPSK | | Low | 21.10 |
| | | | | | 50% | Mid | 21.10 |
| | | | | | | High | 21.10 |
| | 5 | 21425 | 2567.5 | | 100% | | 21.10 |
| | 3 | 21423 | 2307.3 | 16QAM | | Low | 21.30 |
| | | | | | 1 | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | | 50% | Low | 21.30 |
| | | | | | | Mid | 21.20 |
| | | | | | | High | 21.20 |
| High | | | | | 100% | | 21.20 |
| Range | | | | | 1 | Low | 21.80 |
| | | | | | | Mid | 21.80 |
| | | | | | | High | 21.80 |
| | | | | QPSK | | Low | 21.70 |
| | | | | | 50% | Mid | 21.70 |
| | | | | | | High | 21.70 |
| | 10 | 21400 | 2565 | | 100% | | 21.70 |
| | 10 | 21400 | 2303 | | | Low | 21.70 |
| | | | | | 1 | Mid | 21.70 |
| | | | | | | High | 21.70 |
| | | | | 16QAM | | Low | 21.70 |
| | | | | | 50% | Mid | 21.80 |
| | | | | | | High | 21.70 |
| | | | | | 100% | | 21.60 |



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| Test Frequency ID | Bandwidth (MHz) | NUL | Frequency of Uplink(MHz) | Modulation | RB Size | RB Offset | Test results (dBm) |
|-------------------------|--------------------|-------|--------------------------------|------------|------------|--------------|--------------------|
| | | | | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.40 |
| | | | | | High | 21.40 | |
| | | | | QPSK | | Low | 21.40 |
| | | | | | 50% | Mid | 21.40 |
| | | | | | | High | 21.40 |
| | 15 | 21375 | 2562.5 | | 100% | | 21.30 |
| | 15 | 21373 | 2502.5 | 16QAM | | Low | 21.40 |
| | | | | | 1 | Mid | 21.40 |
| | | | | | | High | 21.40 |
| | | | | | 50% | Low | 21.40 |
| | | | | | | Mid | 21.40 |
| | | | | | | High | 21.40 |
| High | | | | | 100% | | 21.30 |
| Range | | | | | 1 | Low | 21.00 |
| | | | | | | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | | | | QPSK | | Low | 21.00 |
| | | | | | 50% | Mid | 21.00 |
| | | | | | | High | 21.00 |
| | 20 | 21350 | 2560 | | 100% | | 21.90 |
| | 20 | 21330 | 2500 | | | Low | 21.30 |
| | | | | | 1 | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | 16QAM | | Low | 21.30 |
| | | | | | 50% | Mid | 21.30 |
| | | | | | | High | 21.30 |
| | | | | | 100% | | 21.30 |

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6.5 Bluetooth Measurement result

| Modulation type | Test Result (dBm) | | | | | |
|-----------------|-------------------|---------------|---------------|--|--|--|
| Modulation type | 2402MHz(Ch0) | 2441MHz(Ch39) | 2480MHz(Ch78) | | | |
| GFSK | -3.45 | -4.58 | -5.19 | | | |
| π/4DQPSK | -3.27 | -4.39 | -5.36 | | | |
| 8DPSK | -3.11 | -4.59 | -5.89 | | | |
| GFSK(BLE) | 2402MHz(Ch0) | 2440MHz(Ch19) | 2480MHz(Ch39) | | | |
| GF3N(BLE) | 1.31 | 1.14 | 1.18 | | | |

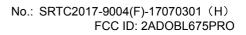
| Modulation type | Test Result (mW) | | | | | |
|-----------------|------------------|---------------|---------------|--|--|--|
| Modulation type | 2402MHz(Ch0) | 2441MHz(Ch39) | 2480MHz(Ch78) | | | |
| GFSK | 0.45 | 0.35 | 0.30 | | | |
| π/4DQPSK | 0.47 | 0.36 | 0.29 | | | |
| 8DPSK | 0.49 | 0.35 | 0.26 | | | |
| GFSK(BLE) | 2402MHz(Ch0) | 2440MHz(Ch19) | 2480MHz(Ch39) | | | |
| GF3R(BLE) | 1.35 | 1.30 | 1.31 | | | |

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6.6 Wi-Fi Measurement result

| | | Ave | rage power output (| dBm) |
|------|----------------|------------------|---------------------|-------------------|
| Mo | odulation type | 2412MHz (Ch1) | 2437MHz (Ch6) | 2462MHz (Ch11) |
| | 1 Mbps | 12.03 | 12.16 | 12.12 |
| 11b | 2 Mbps | 11.98 | 11.85 | 11.89 |
| 110 | 5.5 Mbps | 11.83 | 11.72 | 11.67 |
| | 11 Mbps | 11.76 | 11.69 | 11.52 |
| | 6 Mbps | 10.98 | 11.12 | 11.03 |
| | 9 Mbps | 10.83 | 11.02 | 10.93 |
| | 12 Mbps | 10.72 | 10.93 | 10.88 |
| 110 | 18 Mbps | 10.66 | 10.82 | 10.75 |
| 11g | 24 Mbps | 10.53 | 10.71 | 10.69 |
| | 36 Mbps | 10.47 | 10.49 | 10.48 |
| | 48 Mbps | 10.38 | 10.35 | 10.36 |
| | 54 Mbps | 10.32 | 10.26 | 10.18 |
| | 6.5 Mbps | 10.81 | 10.92 | 10.85 |
| | 13 Mbps | 10.72 | 10.73 | 10.72 |
| | 19.5 Mbps | 10.64 | 10.48 | 10.53 |
| 11n | 26 Mbps | 10.52 | 10.27 | 10.39 |
| HT20 | 39 Mbps | 10.44 | 10.04 | 10.27 |
| | 52 Mbps | 10.12 | 9.89 | 10.17 |
| | 58.5 Mbps | 9.63 | 9.72 | 9.92 |
| | 65 Mbps | 9.22 | 9.42 | 9.71 |



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| | | Ave | rage power output (| (mW) |
|------|----------------|------------------|---------------------|-------------------|
| Mo | odulation type | 2412MHz (Ch1) | 2437MHz (Ch6) | 2462MHz (Ch11) |
| | 1 Mbps | 15.96 | 16.44 | 16.29 |
| 11b | 2 Mbps | 15.78 | 15.31 | 15.45 |
| 110 | 5.5 Mbps | 15.24 | 14.86 | 14.69 |
| | 11 Mbps | 15.00 | 14.76 | 14.19 |
| | 6 Mbps | 12.53 | 12.94 | 12.68 |
| | 9 Mbps | 12.11 | 12.65 | 12.39 |
| | 12 Mbps | 11.80 | 12.39 | 12.25 |
| 110 | 18 Mbps | 11.64 | 12.08 | 11.89 |
| 11g | 24 Mbps | 11.30 | 11.78 | 11.72 |
| | 36 Mbps | 11.14 | 11.19 | 11.17 |
| | 48 Mbps | 10.91 | 10.84 | 10.86 |
| | 54 Mbps | 10.76 | 10.62 | 10.42 |
| | 6.5 Mbps | 12.05 | 12.36 | 12.16 |
| | 13 Mbps | 11.80 | 11.83 | 11.80 |
| | 19.5 Mbps | 11.59 | 11.17 | 11.30 |
| 11n | 26 Mbps | 11.27 | 10.64 | 10.94 |
| HT20 | 39 Mbps | 11.07 | 10.09 | 10.64 |
| | 52 Mbps | 10.28 | 9.75 | 10.40 |
| | 58.5 Mbps | 9.18 | 9.38 | 9.82 |
| | 65 Mbps | 8.36 | 8.75 | 9.35 |

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6.7 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

According to the KDB447498 4.3.1 (1)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR, where

- ·f(GHz) is the RF channel transmit frequency in GHz
- ·Power and distance are rounded to the nearest mW and mm before calculation
- •The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

This is equivalent to [(max. power of channel, including tune-up tolerance, mW)/(60/ \sqrt{f} (GHz) mW)]·[20 mm/(min.test separation distance, mm)] \leq 1.0 for 1-g SAR; also see Appendix A for approximate exclusion threshold values at selected frequencies and distances.

The State Radio_monitoring_center Testing Center (SRTC)
Tel: 86-10-5799 6183



According to the KDB447498 appendix A

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

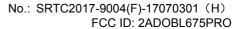
| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|----|----|-----|-----|-----|-----------------------|
| 150 | 39 | 77 | 116 | 155 | 194 | |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | 545 T |
| 1500 | 12 | 24 | 37 | 49 | 61 | SAR Test Exclusion |
| 1900 | 11 | 22 | 33 | 44 | 54 | Threshold (mW) |
| 2450 | 10 | 19 | 29 | 38 | 48 | 2 (22.1.) |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |

Summary of Transmitters

| Band/Mode | Max.RF output power (mW) | SAR test exclusion Threshold (mW) | SAR Required |
|------------------------------|--------------------------------|---|--------------|
| (2.4~2.4835)GHz Bluetooth | 1.35 | 19 | No |
| (2.4~2.4835)GHz WLAN | 16.44 | 19 | No |

20170515V1.0.0

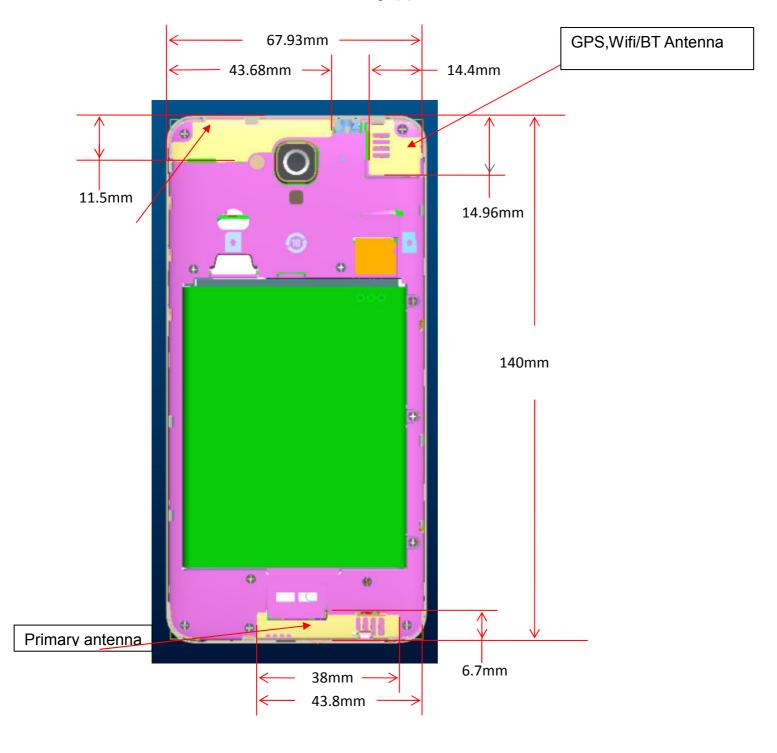
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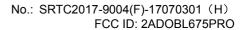


6.8 RF exposure conditions

Refer to the follow picture "Antenna Locations & Separation Distances" for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.



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6.8.1 Head Exposure Conditions For WWAN,

| Test Configurations | SAR Required | Note |
|---------------------|--------------|------|
| Left Touch | yes | 1 |
| Left Tilt (15°) | yes | 1 |
| Right Touch | yes | 1 |
| Right Tilt (15°) | yes | 1 |

6.8.2 Body-worn Accessory Exposure conditions For WWAN

| Test Configurations | SAR Required | Note | | |
|---------------------|--------------|------|--|--|
| Rear | yes | 1 | | |
| Front | yes | / | | |

For WiFi

| Test Configurations | SAR Required | Note |
|---------------------|--------------|------|
| Rear | yes | 1 |
| Front | yes | 1 |

6.8.3 Hotspot Exposure Conditions For WWAN

| Test Configurations | Antenna-to-edge/surface | SAR Required |
|---------------------|-------------------------|--------------|
| Rear | <25 mm | Yes |
| Front | <25 mm | Yes |
| Edge 1 | 135 mm | No |
| Edge 2 | 0 mm | Yes |
| Edge 3 | 25 mm | Yes |
| Edge 4 | 7 mm | Yes |

For Wi-Fi

| Test Configurations | Antenna-to-edge/surface | SAR Required |
|---------------------|-------------------------|--------------|
| Rear | <25 mm | Yes |
| Front | <25 mm | Yes |
| Edge 1 | 0 mm | Yes |
| Edge 2 | 124 mm | No |
| Edge 3 | 53 mm | No |
| Edge 4 | 0 mm | Yes |

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6.9 System Checking

The manufacturer calibrates the probes annully. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system checking results (dielectric parameters and SAR values) are given in the table below.

| Date Tested | System dipole | T.S. Liquid | SAR measured (normalized to 1W) | | Target (Ref.Value) | Delta (%) | Tolerance (%) |
|----------------|---------------|----------------|---------------------------------------|-------|-----------------------|--------------|---------------|
| 2017.05.02 | D835V2 | Head | 1g | 9.36 | 9.24 | 1.30 | ±10 |
| 2017.05.02 | D835V2 | Body | 1g | 9.32 | 9.38 | 0.64 | ±10 |
| 2017.05.03 | D1900V2 | Head | 1g | 39.28 | 39.40 | 0.30 | ±10 |
| 2017.05.03 | D1900V2 | Body | 1g | 39.36 | 39.50 | 0.35 | ±10 |
| 2017.05.04 | D2450V2 | Head | 1g | 52.48 | 52.70 | 0.42 | ±10 |
| 2017.05.04 | D2450V2 | Body | 1g | 51.72 | 51.90 | 0.35 | ±10 |

Plots of the system checking scans are given in Appendix A.

Tissue Simulants used in the Measurements

For the measurement of the following parameters the SPEAG DAKS-3.5 dielectric parameter probe is used, representing the open-ended coaxial probe measurement procedure.

| Date Tested | Freq.(MHz) | Liquid parameters | measured | Target | Delta(%) | Tolerance(%) |
|-------------|------------|-------------------|----------|--------|----------|--------------|
| 2017.05.02 | Head 835 | ٤r | 42.11 | 41.50 | 1.47 | ±5 |
| 2017.05.02 | Head 633 | σ[S/m] | 0.91 | 0.90 | 1.11 | ±5 |
| 2017.05.02 | Body 835 | ٤r | 53.85 | 55.20 | 2.45 | ±5 |
| 2017.05.02 | Bouy 633 | σ[S/m] | 0.98 | 0.97 | 1.03 | ±5 |
| 2017.05.03 | Head 1900 | ٤r | 40.84 | 40.00 | 2.10 | ±5 |
| 2017.03.03 | | σ[S/m] | 1.41 | 1.40 | 0.71 | ±5 |
| 2017.05.03 | Body 1900 | ٤r | 52.18 | 53.30 | 2.10 | ±5 |
| 2017.03.03 | Body 1900 | σ[S/m] | 1.53 | 1.52 | 0.66 | ±5 |
| 2017.05.04 | Head 2450 | εr | 39.21 | 39.20 | 0.03 | ±5 |
| 2017.05.04 | Tieau 2450 | σ[S/m] | 1.79 | 1.80 | 0.56 | ±5 |
| 2017.05.04 | Pody 2450 | ٤r | 52.04 | 52.70 | 1.25 | ±5 |
| 2017.05.04 | Body 2450 | σ[S/m] | 1.97 | 1.95 | 1.03 | ±5 |

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6.10 SAR TEST RESULT

In order to determine the largest value of the peak spatial-average SAR of a handset, all device positions, configurations, and operational modes should be tested for each frequency band according to Steps 1 to 3 below.

Step 1: The tests should be performed at the channel that is closest to the center of the transmit frequency band.

- a) All device positions (cheek and tilt, for both left and right sides of the SAM phantom),
- b) All configurations for each device position in a), e.g., antenna extended and retracted, and
- c) All operational modes for each device position in item a) and configuration in item b) in each frequency band, e.g., analog and digital, If more than three frequencies need to be tested (i.e., Nc > 3), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing the highest peak spatial-average SAR determined in Step 1 for each frequency, perform all tests at all other test frequency channels, e.g., lowest and highest frequencies. In addition, for all other conditions (device position, configuration, and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies should be tested as well.

Step 3: Examine all data to determine the largest value of the peak. Note:

1. Per KDB 447498 D01v05, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Reported SAR (W/kg) = Measured SAR (W/kg)* Scaling Factor

- 2. Per KDB 447498 D01v05, for each exposure position, if the highest output channel reported SAR ≤0.8W/kg, other channels SAR testing are not necessary.
- 3. In the report the test position "Mobile phone screen Towards Ground" abbreviated as "TG", and "Mobile phone screen Towards Phantom" abbreviated as "TP".

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The measured and reported Head/body SAR values for the test device are tabulated below:

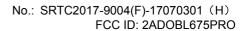
Mode: GSM 850

fL(MHz)=824.2MHz fM(MHz)=836.5MHz fH(MHz)=848.8MHz

SAR Values (Head, 850MHz Band)

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

| Test C | Test Case | | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-----------|-------|-------------------------------|------------------|-------------------|-------------------------------|--------------------------------|
| position | mode | | (dBm) | (dBm) | racioi | 1g Average | 1g Average |
| Left | | L | 32.91 | 34 | 1.29 | | |
| cheek | | М | 32.94 | 34 | 1.28 | 0.076 | 0.098 |
| Crieek | | Н | 32.92 | 34 | 1.28 | | |
| Left | | L | 32.91 | 34 | 1.29 | | |
| Tilted | | М | 32.94 | 34 | 1.28 | 0.028 | 0.036 |
| Tilled | GSM | Н | 32.92 | 34 | 1.28 | | |
| Diaht | GSIVI | L | 32.91 | 34 | 1.29 | | |
| Right cheek | | M | 32.94 | 34 | 1.28 | 0.252 | 0.322 |
| Clieek | Н | 32.92 | 34 | 1.28 | | | |
| Right Tilted | | L | 32.91 | 34 | 1.29 | | |
| | М | 32.94 | 34 | 1.28 | 0.128 | 0.163 | |
| Tilleu | | Н | 32.92 | 34 | 1.28 | | |



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Mode: GSM850 (GSM/GPRS)

fL(MHz)=824.2MHz fM(MHz)=836.5MHz fH(MHz)=848.8MHz

SAR Values (body, 850MHz Band

Limit of SAR (W/kg) : <1.6W/kg (1g Average)

| Test | Test Case | | Measure Conducted Power | iducted limit | | Measure Results (W/kg) | Reported Results (W/kg) |
|-------------------|-----------|-----------|-------------------------------|---------------|--------|-------------------------------|--------------------------------|
| position | mode | | (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| | GSM | L | 32.91 | 34 | 1.29 | | |
| | With | М | 32.94 | 34 | 1.28 | 0.420 | 0.536 |
| | headset | Н | 32.92 | 34 | 1.28 | | |
| | | L | 28.30 | 29 | 1.17 | | |
| TG | GPRS | М | 28.17 | 29 | 1.21 | 0.783 | 0.948 |
| 16 | | Н | 28.11 | 29 | 1.23 | | |
| | | L | 28.30 | 29 | 1.17 | | |
| | EGPRS | M | 28.17 | 29 | 1.21 | 0.787 | 0.953 |
| | EGPKS | M(retest) | 28.17 | 29 | 1.21 | 0.779 | 0.943 |
| | | Н | 28.11 | 29 | 1.23 | | |
| | GSM | L | 32.91 | 34 | 1.29 | | |
| | With | М | 32.94 | 34 | 1.28 | 0.367 | 0.468 |
| | headset | Н | 32.92 | 34 | 1.28 | | |
| | | L | 28.30 | 29 | 1.17 | | |
| TP | GPRS | M | 28.17 | 29 | 1.21 | 0.702 | 0.850 |
| | | Н | 28.11 | 29 | 1.23 | | |
| | | L | 28.30 | 29 | 1.17 | | |
| | EGPRS | М | 28.17 | 29 | 1.21 | 0.705 | 0.853 |
| | | Н | 28.11 | 29 | 1.23 | | |
| Hotopot | | L | 28.30 | 29 | 1.17 | | |
| Hotspot EDGE 2 | | M | 28.17 | 29 | 1.21 | 0.382 | 0.462 |
| EDGE 2 | | Н | 28.11 | 29 | 1.23 | | |
| Hotopot | | L | 28.30 | 29 | 1.17 | | |
| Hotspot EDGE 3 | EGPRS | М | 28.17 | 29 | 1.21 | 0.709 | 0.858 |
| EDGE 3 | | Н | 28.11 | 29 | 1.23 | | |
| Hotopot | | L | 28.30 | 29 | 1.17 | | |
| Hotspot EDGE 4 | | М | 28.17 | 29 | 1.21 | 0.343 | 0.415 |
| EDGE 4 | | Н | 28.11 | 29 | 1.23 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

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Mode: GSM1900

fL(MHz)=1850.2MHz fM(MHz)=1880.0MHz fH(MHz)=1909.8MHz

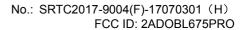
SAR Values (Head , 1900MHz Band)

Limit of SAR (W/kg) : <1.6W/kg(1g Average)

| Test C | est Case | | Measure Conducted Power | Tune-up limit | . \@anno | | Reported Results (W/kg) | | | | |
|-----------------|----------|-------|-------------------------------|------------------|------------|---------------|--------------------------------|----|------|--|--|
| position | mode | | (dBm) | (dBm) | racioi | 1g Average | 1g Average | | | | |
| Left | | L | 29.97 | 31 | 1.27 | | | | | | |
| cheek | | М | 29.98 | 31 | 1.26 | 0.213 | 0.269 | | | | |
| CHEEK | | | | | | Н | 29.91 | 31 | 1.29 | | |
| Left | | L | 29.97 | 31 | 1.27 | | | | | | |
| Tilted | | М | 29.98 | 31 | 1.26 | 0.069 | 0.087 | | | | |
| Tilled | GSM | Н | 29.91 | 31 | 1.29 | - | | | | | |
| Right | GSIVI | L | 29.97 | 31 | 1.27 | | | | | | |
| cheek | | М | 29.98 | 31 | 1.26 | 0.155 | 0.196 | | | | |
| CHEEK | cneek | Н | 29.91 | 31 | 1.29 | | | | | | |
| Diaht | | L | 29.97 | 31 | 1.27 | | | | | | |
| Right Tilted | М | 29.98 | 31 | 1.26 | 0.056 | 0.071 | | | | | |
| riiled | | Н | 29.91 | 31 | 1.29 | | | | | | |

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Mode: GSM1900 (GSM/GPRS)

fL(MHz)=1850.2MHz fM(MHz)=1880.0MHz fH(MHz)=1909.8MHz

SAR Values (body, 1900MHz Band)

Limit of SAR (W/kg) :<1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-------------------|---------|-----------|-------------------------------|------------------|-------------------|-------------------------------|--------------------------------|
| position | mode | | (dBm) | (dBm) | | 1 g Average | 1g Average |
| | GSM | L | 29.97 | 31 | 1.27 | | |
| | With | M | 29.98 | 31 | 1.26 | 0.523 | 0.661 |
| | headset | Н | 29.91 | 31 | 1.29 | | |
| | | L | 25.00 | 26 | 1.26 | | |
| TG | GPRS | М | 25.01 | 26 | 1.26 | 0.757 | 0.951 |
| 16 | | Н | 24.99 | 26 | 1.26 | | |
| | | Ш | 25.00 | 26 | 1.26 | | |
| | EGPRS | М | 25.01 | 26 | 1.26 | 0.781 | 0.981 |
| | EGPKS | M(retest) | 25.01 | 26 | 1.26 | 0.760 | 0.958 |
| | | Н | 24.99 | 26 | 1.26 | | |
| | GSM | L | 29.97 | 31 | 1.27 | | |
| | With | М | 29.98 | 31 | 1.26 | 0.213 | 0.269 |
| | headset | Н | 29.91 | 31 | 1.29 | | |
| | | L | 25.00 | 26 | 1.26 | | |
| TP | GPRS | М | 25.01 | 26 | 1.26 | 0.418 | 0.525 |
| | | Н | 24.99 | 26 | 1.26 | | |
| | | L | 25.00 | 26 | 1.26 | | |
| | EGPRS | М | 25.01 | 26 | 1.26 | 0.488 | 0.613 |
| | | Н | 24.99 | 26 | 1.26 | | |
| Lietopet | | L | 25.00 | 26 | 1.26 | | |
| Hotspot EDGE 2 | | М | 25.01 | 26 | 1.26 | 0.453 | 0.569 |
| EDGE 2 | | Н | 24.99 | 26 | 1.26 | | |
| 11040004 | | L | 25.00 | 26 | 1.26 | | |
| Hotspot EDGE 3 | EGPRS | М | 25.01 | 26 | 1.26 | 0.116 | 0.146 |
| EDGE 3 | | Н | 24.99 | 26 | 1.26 | | |
| I lateral | | L | 25.00 | 26 | 1.26 | | |
| Hotspot EDGE 4 | | М | 25.01 | 26 | 1.26 | 0.168 | 0.211 |
| EDGE 4 | | Н | 24.99 | 26 | 1.26 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

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Mode: WCDMA BAND2

fL(MHz)=1852.4MHz fM(MHz)=1880MHz fH(MHz)=1907.6MHz

SAR Values (Head, WCDMA BAND2)

Limit of SAR (W/kg):<1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|--------------|-----------|-------|-------------------------------|------------------|-------------------|-------------------------------|--------------------------------|
| position | mode | | (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| Left | | L | 22.62 | 24 | 1.37 | | |
| cheek | | М | 22.65 | 24 | 1.36 | 0.372 | 0.508 |
| CHEEK | | Н | 22.61 | 24 | 1.38 | | |
| Left | | L | 22.62 | 24 | 1.37 | | |
| Tilted | | M | 22.65 | 24 | 1.36 | 0.126 | 0.172 |
| Tilleu | VOICE | Н | 22.61 | 24 | 1.38 | | |
| Dight | VOICE | L | 22.62 | 24 | 1.37 | | |
| Right cheek | | M | 22.65 | 24 | 1.36 | 0.250 | 0.341 |
| CHEEK | Cheek | Н | 22.61 | 24 | 1.38 | | |
| Dight | | Ĺ | 22.62 | 24 | 1.37 | | |
| Right Tilted | М | 22.65 | 24 | 1.36 | 0.087 | 0.118 | |
| Tilleu | | Н | 22.61 | 24 | 1.38 | | |



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Mode: WCDMA BAND2

fL(MHz)=1852.4MHz fM(MHz)=1880MHz fH(MHz)=1907.6MHz

SAR Values (body, WCDMA BAND2)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| | 3AK (W/Kg). <1.0 | | Measur | | | Measure | Reported |
|------------------|------------------|-----------|-----------------------|---------|---------|-------------------|-------------------|
| Test Case | | CH | e Conduc | Tune-up | Scaling | Results (W/kg) | Results (W/kg) |
| Position | mode | OH | ted Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| | | L | 22.62 | 24 | 1.37 | | |
| TG | VOICE | M | 22.65 | 24 | 1.36 | 0.572 | 0.781 |
| | VOICE | M(retest) | 22.65 | 24 | 1.36 | 0.533 | 0.725 |
| | | Н | 22.61 | 24 | 1.38 | | |
| | | L | 22.62 | 24 | 1.37 | | |
| | DATA | M | 22.65 | 24 | 1.36 | 0.568 | 0.775 |
| | | Н | 22.61 | 24 | 1.38 | | |
| TP | VOICE | L | 22.62 | 24 | 1.37 | | |
| | | M | 22.65 | 24 | 1.36 | 0.454 | 0.620 |
| | | Н | 22.61 | 24 | 1.38 | | |
| IF | DATA | L | 22.62 | 24 | 1.37 | | |
| | | M | 22.65 | 24 | 1.36 | 0.418 | 0.570 |
| | | Н | 22.61 | 24 | 1.38 | | |
| Hotspot EDGE2 | DATA | Ш | 22.62 | 24 | 1.37 | | |
| | | M | 22.65 | 24 | 1.36 | 0.541 | 0.738 |
| | | Н | 22.61 | 24 | 1.38 | | |
| Hotspot EDGE3 | DATA | Ш | 22.62 | 24 | 1.37 | | |
| | | М | 22.65 | 24 | 1.36 | 0.080 | 0.109 |
| | | Н | 22.61 | 24 | 1.38 | | |
| Hotspot EDGE4 | DATA | L | 22.62 | 24 | 1.37 | | |
| | | М | 22.65 | 24 | 1.36 | 0.382 | 0.521 |
| | | Н | 22.61 | 24 | 1.38 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

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Mode: WCDMA BAND4

fL(MHz)=1712.4MHz fM(MHz)=1732.4MHz fH(MHz)=1752.6MHz

SAR Values (Head, WCDMA BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted | Tune-uplimit | Scaling | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-------|----|----------------------|--------------|---------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | VOICE | L | 22.38 | 24 | 1.45 | | |
| cheek | | М | 22.41 | 24 | 1.44 | 0.353 | 0.509 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Left Tilted | | L | 22.38 | 24 | 1.45 | | |
| | | М | 22.41 | 24 | 1.44 | 0.200 | 0.288 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Right cheek | | L | 22.38 | 24 | 1.45 | | |
| | | М | 22.41 | 24 | 1.44 | 0.246 | 0.355 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Right Tilted | | L | 22.38 | 24 | 1.45 | | |
| | | М | 22.41 | 24 | 1.44 | 0.170 | 0.245 |
| | | Н | 22.37 | 24 | 1.46 | | |



No.: SRTC2017-9004(F)-17070301 (H)

FCC ID: 2ADOBL675PRO

Mode: WCDMA BAND4

fL(MHz)=1712.4MHz fM(MHz)=1732.4MHz fH(MHz)= 1752.6MHz

SAR Values (body, WCDMA BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted Power | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|------------------|-------|-----------|-------------------------------|---------------------------|-------------------|------------------------------|-------------------------------|
| Position | mode | | (dBm) | , | | Average | Average |
| TG | VOICE | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.662 | 0.955 |
| | | Н | 22.37 | 24 | 1.46 | | |
| | DATA | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.702 | 1.012 |
| | | M(retest) | 22.41 | 24 | 1.44 | 0.611 | 0.880 |
| | | Н | 22.37 | 24 | 1.46 | | |
| TP | VOICE | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.380 | 0.548 |
| | | Н | 22.37 | 24 | 1.46 | | |
| IF | DATA | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.402 | 0.580 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Hotspot EDGE2 | DATA | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.373 | 0.538 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Hotspot EDGE3 | DATA | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.130 | 0.187 |
| | | Н | 22.37 | 24 | 1.46 | | |
| Hotspot EDGE4 | DATA | L | 22.38 | 24 | 1.45 | | |
| | | M | 22.41 | 24 | 1.44 | 0.186 | 0.268 |
| | | Н | 22.37 | 24 | 1.46 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

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Mode: WCDMA BAND5

fL(MHz)=826.4MHz fM(MHz)=836.6MHz fH(MHz)=846.6MHz

SAR Values (Head, WCDMA BAND5)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted Power | Tune-uplimit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|---------|----|-------------------------------|-----------------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | (dBm) | (dbiii) | racioi | 1 g Average | 1g Average |
| Left | - VOCIE | L | 22.48 | 24 | 1.42 | | |
| cheek | | М | 22.56 | 24 | 1.39 | 0.135 | 0.188 |
| | | Н | 22.55 | 24 | 1.40 | | |
| Left | | L | 22.48 | 24 | 1.42 | | |
| Tilted | | М | 22.56 | 24 | 1.39 | 0.065 | 0.091 |
| | | Н | 22.55 | 24 | 1.40 | | |
| Right cheek | VOCIL | L | 22.48 | 24 | 1.42 | | |
| | | М | 22.56 | 24 | 1.39 | 0.141 | 0.196 |
| | | Н | 22.55 | 24 | 1.40 | | |
| Right Tilted | | L | 22.48 | 24 | 1.42 | | |
| | | М | 22.56 | 24 | 1.39 | 0.098 | 0.137 |
| | | Н | 22.55 | 24 | 1.40 | | |



No.: SRTC2017-9004(F)-17070301 (H) FCC ID: 2ADOBL675PRO

国家无线电监测中心检测中心

Mode: WCDMA BAND5

fL(MHz)=826.4MHz fM(MHz)=836.6MHz fH(MHz)=846.6MHz

SAR Values (body, WCDMA BAND5)
Limit of SAR (W/kg): <1.6W/kg(1g Average)

| | Test Case Position mode | | Measure Conducted Power (dBm) | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|------------------|-------------------------|-----------|--|---------------------------|-------------------|------------------------------|-------------------------------|
| 1 OSITION | mode | | ` ' | | | Average | Average |
| | | L | 22.48 | 24 | 1.42 | | |
| | VOICE | M | 22.56 | 24 | 1.39 | 0.336 | 0.468 |
| | VOICE | M(retest) | 22.56 | 24 | 1.39 | 0.249 | 0.346 |
| TG | | Н | 22.55 | 24 | 1.40 | | |
| | | L | 22.48 | 24 | 1.42 | | |
| | DATA | M | 22.56 | 24 | 1.39 | 0.335 | 0.467 |
| | | Н | 22.55 | 24 | 1.40 | | |
| | | L | 22.48 | 24 | 1.42 | | |
| | VOICE | М | 22.56 | 24 | 1.39 | 0.280 | 0.390 |
| TP | | Н | 22.55 | 24 | 1.40 | | |
| I I F | DATA | L | 22.48 | 24 | 1.42 | | |
| | | М | 22.56 | 24 | 1.39 | 0.330 | 0.460 |
| | | Н | 22.55 | 24 | 1.40 | | |
| Listanat | | L | 22.48 | 24 | 1.42 | | |
| Hotspot EDGE2 | DATA | М | 22.56 | 24 | 1.39 | 0.011 | 0.016 |
| EDGEZ | | Н | 22.55 | 24 | 1.40 | | |
| Listanat | | L | 22.48 | 24 | 1.42 | | |
| Hotspot | DATA | M | 22.56 | 24 | 1.39 | 0.114 | 0.159 |
| EDGE3 | | Н | 22.55 | 24 | 1.40 | | |
| l latan ct | | L | 22.48 | 24 | 1.42 | | |
| Hotspot | DATA | M | 22.56 | 24 | 1.39 | 0.107 | 0.149 |
| EDGE4 | | Н | 22.55 | 24 | 1.40 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

The State Radio_monitoring_center Testing Center (SRTC)

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Mode: LTE BAND2-20BW-1RB

fH(MHz)=1900MHzfL(MHz)=1860MHz fM(MHz)=1880MHz

SAR Values (Head, LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-----------|-------|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | | L | 22.50 | 23 | 1.12 | 0.327 | 0.367 |
| cheek | | М | 22.80 | 23 | 1.05 | 0.443 | 0.464 |
| Cheek | Н | 22.20 | 23 | 1.20 | 0.333 | 0.400 | |
| Left | | L | 22.50 | 23 | 1.12 | | |
| Tilted | | М | 22.80 | 23 | 1.05 | 0.107 | 0.112 |
| Tilleu | 20 BW | Н | 22.20 | 23 | 1.20 | | |
| Diaht | 1RB | L | 22.50 | 23 | 1.12 | | |
| Right cheek | | М | 22.80 | 23 | 1.05 | 0.189 | 0.198 |
| cneek | Н | 22.20 | 23 | 1.20 | | | |
| Right Tilted | | L | 22.50 | 23 | 1.12 | | |
| | | М | 22.80 | 23 | 1.05 | 0.075 | 0.079 |
| Tilleu | | Н | 22.20 | 23 | 1.20 | | |



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Mode: LTE BAND2-20BW-1RB

fL(MHz)=1860MHz fM(MHz)=1880MHzfH(MHz) = 1900MHz

SAR Values (body, LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test (| Test Case | | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------|-----------|-----------|-------------------------------|------------------|-------------------|------------------------------|-------------------------------|
| Position | mode | | (dBm) | (dBm) | 1 40101 | 1 g Average | 1g Average |
| | | L | 22.50 | 23 | 1.12 | 0.708 | 0.794 |
| TG | 20 BW | M | 22.80 | 23 | 1.05 | 0.795 | 0.832 |
| 16 | 1RB | M(retest) | 22.80 | 23 | 1.05 | 0.678 | 0.712 |
| | Н | 22.20 | 23 | 1.20 | 0.777 | 0.934 | |
| | 20 BW | L | 22.50 | 23 | 1.12 | | |
| TP | 1RB | M | 22.80 | 23 | 1.05 | 0.472 | 0.494 |
| | טאוו | Н | 22.20 | 23 | 1.20 | | |
| Hotspot | | L | 22.50 | 23 | 1.12 | | |
| EDGE 2 | | M | 22.80 | 23 | 1.05 | 0.378 | 0.396 |
| LDOL 2 | | Н | 22.20 | 23 | 1.20 | | |
| Hotspot | 20 BW | L | 22.50 | 23 | 1.12 | | |
| EDGE 3 | 1RB | M | 22.80 | 23 | 1.05 | 0.043 | 0.045 |
| EDGE 3 | טאוו | Н | 22.20 | 23 | 1.20 | | |
| Hotspot | | L | 22.50 | 23 | 1.12 | | |
| EDGE 4 | | M | 22.80 | 23 | 1.05 | 0.301 | 0.315 |
| LDGL 4 | | Н | 22.20 | 23 | 1.20 | | |

Note: Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

The State Radio_monitoring_center Testing Center (SRTC) Tel: 86-10-5799 6183



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Mode: LTE BAND2-20BW-50%RB

fH(MHz)=1900MHzfL(MHz)=1860MHz fM(MHz)=1880MHz

SAR Values (Head, LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-----------|-------|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| Left | | L | 22.20 | 23 | 1.20 | | |
| cheek | | М | 22.50 | 23 | 1.12 | 0.397 | 0.445 |
| Cheek | Н | 22.00 | 23 | 1.26 | | | |
| Left | | L | 22.20 | 23 | 1.20 | | |
| Tilted | | M | 22.50 | 23 | 1.12 | 0.096 | 0.108 |
| Tilleu | 20 BW | Н | 22.00 | 23 | 1.26 | | |
| Diaht | 50%RB | L | 22.20 | 23 | 1.20 | | |
| Right cheek | | М | 22.50 | 23 | 1.12 | 0.147 | 0.165 |
| cneek | Н | 22.00 | 23 | 1.26 | | | |
| Right Tilted | | L | 22.20 | 23 | 1.20 | | |
| | | М | 22.50 | 23 | 1.12 | 0.067 | 0.075 |
| Tilleu | | Н | 22.00 | 23 | 1.26 | | |



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Mode: LTE BAND2- 20BW-50%RB

fH(MHz)=1900MHzfL(MHz)=1860MHz fM(MHz)=1880MHz

SAR Values (body, LTE BAND2)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| | it (11/1kg): 11.011/k | <u>'9('9</u> | /tvoiago, | | | N4 | D (l |
|-------------------|-----------------------|--------------|-------------------------------|------------------|-------------------|------------------------------|-------------------------------|
| Te | est Case | СН | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
| Position | mode | | (dBm) | (dBm) | 1 actor | 1 g Average | 1g Average |
| | | L | 22.20 | 23 | 1.20 | | |
| TG | 20 BW 50%RB | М | 22.50 | 23 | 1.12 | 0.646 | 0.725 |
| | | Н | 22.00 | 23 | 1.26 | | |
| | | L | 22.20 | 23 | 1.20 | | |
| TP | 20 BW 50%RB | М | 22.50 | 23 | 1.12 | 0.382 | 0.429 |
| | | Н | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 22.20 | 23 | 1.20 | | |
| Hotspot EDGE 2 | | М | 22.50 | 23 | 1.12 | | |
| LDGL 2 | | Н | 22.00 | 23 | 1.26 | | |
| Hotspot | | L | 22.20 | 23 | 1.20 | | |
| EDGE 3 | 20 BW 50%RB | М | 22.50 | 23 | 1.12 | | |
| LDGL 3 | | Н | 22.00 | 23 | 1.26 | | |
| Hotspot | | L | 22.20 | 23 | 1.20 | | |
| EDGE 4 | | М | 22.50 | 23 | 1.12 | | |
| LDGL 4 | | Н | 22.00 | 23 | 1.26 | | |

Note: The distance between the EUT and the phantom bottom is 10mm.

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Mode: LTE BAND4- 20BW-1RB

fL(MHz)=1720.0MHz fM(MHz)=1732.5MHz fH(MHz)=1745.0Mhz

SAR Values (Head, LTE BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|------------|----|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| Left | | L | 21.80 | 1.20 | 1.32 | | |
| cheek | | М | 22.00 | 1.00 | 1.26 | 0.343 | 0.432 |
| CHECK | | Н | 21.50 | 1.50 | 1.41 | | |
| Left | | L | 21.80 | 1.20 | 1.32 | | |
| Tilted | | М | 22.00 | 1.00 | 1.26 | 0.169 | 0.213 |
| Tilled | 20BW 1RB | Н | 21.50 | 1.50 | 1.41 | | |
| Diaht | ZUDVV IIXD | L | 21.80 | 1.20 | 1.32 | | |
| Right cheek | | М | 22.00 | 1.00 | 1.26 | 0.170 | 0.214 |
| Cheek | | Н | 21.50 | 1.50 | 1.41 | | |
| Right Tilted | | L | 21.80 | 1.20 | 1.32 | | |
| | | М | 22.00 | 1.00 | 1.26 | 0.138 | 0.174 |
| Tilleu | | Н | 21.50 | 1.50 | 1.41 | | |



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Mode: LTE BAND4- 20BW-1RB

fL(MHz)=1720.0MHz fM(MHz)=1732.5MHz fH(MHz)=1745.0MHz

SAR Values (body, LTE BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| | st Case | СН | Measure Conducted | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-------------------|-----------|----|----------------------|------------------|-------------------|------------------------------|-------------------------------|
| Position | mode | | Power (dBm) | (dBm) | i actor | 1 g Average | 1g Average |
| | | L | 21.80 | 1.20 | 1.32 | | |
| TG | 20 BW 1RB | M | 22.00 | 1.00 | 1.26 | 0.200 | 0.252 |
| | | Н | 21.50 | 1.50 | 1.41 | | |
| | | L | 21.80 | 1.20 | 1.32 | | |
| TP | 20 BW 1RB | М | 22.00 | 1.00 | 1.26 | 0.340 | 0.428 |
| | | Ι | 21.50 | 1.50 | 1.41 | | |
| Hotopot | | اـ | 21.80 | 1.20 | 1.32 | | |
| Hotspot EDGE 2 | | М | 22.00 | 1.00 | 1.26 | | |
| EDGE 2 | | Н | 21.50 | 1.50 | 1.41 | | |
| Hotspot | | اـ | 21.80 | 1.20 | 1.32 | | |
| EDGE 3 | 20 BW 1RB | М | 22.00 | 1.00 | 1.26 | | |
| LDGL 3 | | Ι | 21.50 | 1.50 | 1.41 | | |
| Hotopot | | L | 21.80 | 1.20 | 1.32 | | |
| Hotspot EDGE 4 | | М | 22.00 | 1.00 | 1.26 | | |
| LDGE 4 | | Τ | 21.50 | 1.50 | 1.41 | | |

Note: The distance between the EUT and the phantom bottom is 10mm.

The State Radio_monitoring_center Testing Center (SRTC)

Tel: 86-10-5799 6183 Fax: 86-10-5799 6388 20170515V1.0.0



No.: SRTC2017-9004(F)-17070301 (H) FCC ID: 2ADOBL675PRO

FCC ID: 2ADOBL675PRO

Mode: LTE BAND4- 20BW-50%RB

fL(MHz)=1720 MHz fM(MHz)=1732.5MHz fH(MHz)=1745MHz

SAR Values (Head, LTE BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted | Tune-uplimit | Scaling | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-------|-------|----------------------|--------------|---------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | | L | 21.80 | 1.20 | 1.32 | | |
| cheek | | М | 22.00 | 1.00 | 1.26 | 0.280 | 0.352 |
| Cheek | Н | 21.50 | 1.50 | 1.41 | | | |
| Left | | L | 21.80 | 1.20 | 1.32 | | |
| Tilted | | М | 22.00 | 1.00 | 1.26 | 0.136 | 0.171 |
| Tilleu | 20 BW | Н | 21.50 | 1.50 | 1.41 | | |
| Dight | 50%RB | L | 21.80 | 1.20 | 1.32 | | |
| Right cheek | | М | 22.00 | 1.00 | 1.26 | 0.148 | 0.186 |
| Cheek | Н | 21.50 | 1.50 | 1.41 | | | |
| Right Tilted | L | 21.80 | 1.20 | 1.32 | | | |
| | | М | 22.00 | 1.00 | 1.26 | 0.118 | 0.149 |
| riited | | Н | 21.50 | 1.50 | 1.41 | | |



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Mode: LTE BAND4-20BW-50%RB

fL(MHz)=1720 MHz fM(MHz)=1732.5MHz fH(MHz) = 1745MHz

SAR Values (body, LTE BAND4)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

Note: The distance between the EUT and the phantom bottom is 10mm.

| | Test Case | | Measure Conducted | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------|----------------|-----------|----------------------|------------------|-------------------|------------------------------|-------------------------------|
| Position | mode | | Power (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| | | L | 21.80 | 1.20 | 1.32 | | |
| т. | 20 BW | M | 22.00 | 1.00 | 1.26 | 0.419 | 0.527 |
| TG | 50%RB | M(retest) | 22.00 | 1.00 | 1.26 | 0.288 | 0.363 |
| | | Н | 21.50 | 1.50 | 1.41 | | |
| | 20 BW | L | 21.80 | 1.20 | 1.32 | | |
| TP | 20 BW 50%RB | M | 22.00 | 1.00 | 1.26 | 0.272 | 0.342 |
| | 30 /01 CD | Н | 21.50 | 1.50 | 1.41 | | |
| Hotspot | | L | 21.80 | 1.20 | 1.32 | | |
| EDGE 2 | | M | 22.00 | 1.00 | 1.26 | 0.311 | 0.392 |
| LDOL 2 | | Н | 21.50 | 1.50 | 1.41 | | |
| Hotspot | 20 BW | L | 21.80 | 1.20 | 1.32 | | |
| EDGE 3 | 50%RB | M | 22.00 | 1.00 | 1.26 | 0.116 | 0.146 |
| LDOL 3 | 30 /01 ND | Н | 21.50 | 1.50 | 1.41 | | |
| Hotspot | | L | 21.80 | 1.20 | 1.32 | | |
| EDGE 4 | | M | 22.00 | 1.00 | 1.26 | 0.153 | 0.193 |
| LDGL 4 | | Н | 21.50 | 1.50 | 1.41 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The State Radio_monitoring_center Testing Center (SRTC) Tel: 86-10-5799 6183



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Mode: LTE BAND5- 10BW-1RB

fH(MHz)= 844MHz fL(MHz)=829 MHz fM(MHz)=836.5MHz

SAR Values (Head, LTE BAND5)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-----------|-------|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| Left | | L | 22.00 | 23 | 1.26 | | |
| cheek | | М | 22.20 | 23 | 1.20 | 0.102 | 0.123 |
| CHEEK | Н | 21.80 | 23 | 1.32 | | | |
| Left | | L | 22.00 | 23 | 1.26 | | |
| Tilted | | М | 22.20 | 23 | 1.20 | 0.069 | 0.083 |
| Tilleu | 10 BW | Н | 21.80 | 23 | 1.32 | | |
| Diaht | 1RB | L | 22.00 | 23 | 1.26 | | |
| Right cheek | | М | 22.20 | 23 | 1.20 | 0.129 | 0.155 |
| cneek | Н | 21.80 | 23 | 1.32 | | | |
| Right Tilted | L | 22.00 | 23 | 1.26 | | | |
| | | М | 22.20 | 23 | 1.20 | 0.074 | 0.088 |
| riiled | | Н | 21.80 | 23 | 1.32 | | |



FCC ID: 2ADOBL675PRO

Mode: LTE BAND5- 10BW-1RB

fL(MHz)=829 MHz fM(MHz)=836.5MHzfH(MHz) = 844MHz

SAR Values (Head, LTE BAND5)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Ellint of OAR (vv/kg). 1.0vv/kg(1g Average) | | | | | | | | | | |
|---|-----------|-----------|-------------------------------|------------------|-------------------|------------------------------|-------------------------------|--|--|--|
| Test | Test Case | | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) | | | |
| Position | mode | | (dBm) | (dBm) | 1 dotor | 1 g Average | 1g Average | | | |
| | 40 DW | L | 22.00 | 23 | 1.26 | | | | | |
| TG | 10 BW | M | 22.20 | 23 | 1.20 | 0.258 | 0.310 | | | |
| | 1RB | Н | 21.80 | 23 | 1.32 | | | | | |
| | 10 BW | L | 22.00 | 23 | 1.26 | | | | | |
| TP | 10 BW | M | 22.20 | 23 | 1.20 | 0.167 | 0.201 | | | |
| | מאוו | Н | 21.80 | 23 | 1.32 | | | | | |
| Hotspot | | L | 22.00 | 23 | 1.26 | | | | | |
| EDGE 2 | | M | 22.20 | 23 | 1.20 | 0.125 | 0.150 | | | |
| LDGL 2 | | Н | 21.80 | 23 | 1.32 | | | | | |
| | | L | 22.00 | 23 | 1.26 | | | | | |
| Hotspot | 10 BW | M | 22.20 | 23 | 1.20 | 0.293 | 0.352 | | | |
| EDGE 3 | 1RB | M(retest) | 22.20 | 23 | 1.20 | 0.271 | 0.325 | | | |
| | | Н | 21.80 | 23 | 1.32 | | | | | |
| Hotspot | | L | 22.00 | 23 | 1.26 | | 0.000 | | | |
| EDGE 4 | | M | 22.20 | 23 | 1.20 | 0.062 | 0.075 | | | |
| LDOL 4 | | Н | 21.80 | 23 | 1.32 | | | | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

The State Radio_monitoring_center Testing Center (SRTC)

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Mode: LTE BAND5- 10BW-50%RB

fH(MHz)= 844MHz fL(MHz)=829 MHz fM(MHz)=836.5MHz

SAR Values (Head, LTE BAND5)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted Power | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------|-----------|-------|-------------------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | | L | 22.00 | 23 | 1.26 | | |
| cheek | | М | 22.30 | 23 | 1.17 | 0.102 | 0.120 |
| Cheek | Н | 22.00 | 23 | 1.26 | | | |
| Left | | L | 22.00 | 23 | 1.26 | | |
| Tilted | | М | 22.30 | 23 | 1.17 | 0.059 | 0.069 |
| Tilled | 10 BW | Н | 22.00 | 23 | 1.26 | | |
| Right | 50%RB | L | 22.00 | 23 | 1.26 | | |
| cheek | | М | 22.30 | 23 | 1.17 | 0.099 | 0.116 |
| Cheek | Н | 22.00 | 23 | 1.26 | | | |
| Right | L | 22.00 | 23 | 1.26 | | | |
| Tilted | | М | 22.30 | 23 | 1.17 | 0.054 | 0.064 |
| riileu | | Н | 22.00 | 23 | 1.26 | | |



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Mode: LTE BAND5- 10BW-50%RB

fH(MHz)= 844MHz fL(MHz)=829 MHz fM(MHz)=836.5MHz

SAR Values (Head, LTE BAND5)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Ellilit of SAIT (W/Kg): \1.0W/Kg(1g Average) | | | | | | | |
|--|----------------|----------------------------|-------|------------------|---------|------------------------------|-------------------------------|
| Test Case | | CH Measure Conducted Power | | Tune-up limit | Scaling | Measure Results (W/kg) | Reported Results (W/kg) |
| Position | mode | | (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| | | L | 22.00 | 23 | 1.26 | | |
| TG | 10 BW 50%RB | М | 22.30 | 23 | 1.17 | 0.174 | 0.204 |
| | | Н | 22.00 | 23 | 1.26 | | |
| | TP 10 BW 50%RB | L | 22.00 | 23 | 1.26 | | |
| TP | | М | 22.30 | 23 | 1.17 | 0.145 | 0.170 |
| | | Н | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 22.00 | 23 | 1.26 | | |
| Hotspot EDGE 2 | | М | 22.30 | 23 | 1.17 | | |
| EDGE 2 | | Н | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 22.00 | 23 | 1.26 | | |
| Hotspot EDGE 3 | 10 BW 50%RB | М | 22.30 | 23 | 1.17 | | |
| | | Н | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 22.00 | 23 | 1.26 | | |
| Hotspot EDGE 4 | | М | 22.30 | 23 | 1.17 | | |
| | | Н | 22.00 | 23 | 1.26 | | |

Note: The distance between the EUT and the phantom bottom is 10mm.

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Mode: LTE BAND7-20BW-1RB

fL(MHz)=2510 MHz fH(MHz)=2560MHzfM(MHz)=2535MHz

SAR Values (Head, LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|----------------|-----------|-------|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | | L | 21.60 | 23 | 1.38 | | |
| cheek | | М | 22.40 | 23 | 1.15 | 0.064 | 0.073 |
| CHEEK | TIEEK | Н | 22.00 | 23 | 1.26 | | |
| Left | | L | 21.60 | 23 | 1.38 | | |
| Tilted | | M | 22.40 | 23 | 1.15 | 0.027 | 0.031 |
| Tilleu | 20 BW | Н | 22.00 | 23 | 1.26 | | |
| Diaht | 1RB | L | 21.60 | 23 | 1.38 | | |
| Right cheek | | М | 22.40 | 23 | 1.15 | 0.034 | 0.039 |
| CHEEK | | Н | 22.00 | 23 | 1.26 | | |
| Dight | | L | 21.60 | 23 | 1.38 | | |
| Right Tilted | М | 22.40 | 23 | 1.15 | 0.030 | 0.034 | |
| Tilleu | | Н | 22.00 | 23 | 1.26 | | |



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Mode: LTE BAND7- 20BW-1RB

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)=2560MHz

SAR Values (body, LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Limit of SAN (W/kg). \1.0W/kg(1g Average) | | | | | | | |
|---|---------------|-----------|-------------------------------|---------------------------|-------------------|------------------------------|-----------------------------------|
| Test Case | | СН | Measure Conducted Power | Tune-up limit (dBm) | Scaling Factor | Measure Results (W/kg) | Reporte d Results (W/kg) |
| Position | mode | | (dBm) | (ubili) | | 1 g Average | 1g Average |
| | | L | 21.60 | 23 | 1.38 | | |
| то | 20 BW | М | 22.40 | 23 | 1.15 | 0.740 | 0.850 |
| TG | 1RB | M(retest) | 22.40 | 23 | 1.15 | 0.691 | 0.795 |
| | | Н | 22.00 | 23 | 1.26 | | |
| | 20 DW 1 | L | 21.60 | 23 | 1.38 | | |
| TP | 20 BW 1 RB | M | 22.40 | 23 | 1.15 | 0.322 | 0.370 |
| | מאו | Н | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 21.60 | 23 | 1.38 | | |
| Hotspot EDGE 2 | | M | 22.40 | 23 | 1.15 | 0.523 | 0.600 |
| LDGL 2 | | Н | 22.00 | 23 | 1.26 | | |
| Hotspot | 20 BW | L | 21.60 | 23 | 1.38 | | |
| EDGE 3 1RB Hotspot | | M | 22.40 | 23 | 1.15 | 0.050 | 0.057 |
| | IIVD | Н | 22.00 | 23 | 1.26 | | |
| | | L | 21.60 | 23 | 1.38 | | |
| EDGE 4 | | M | 22.40 | 23 | 1.15 | 0.019 | 0.021 |
| LDOL 4 | | Н | 22.00 | 23 | 1.26 | | |

Note: The test result of variation product is better than the original test data. So the original test data retain and adopted as the final test result.

M is the original test data, M(retest) is the new test data(variation).

The distance between the EUT and the phantom bottom is 10mm.

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Mode: LTE BAND7- 20BW-50%RB

fL(MHz)=2510 MHz fM(MHz)=2535MHz fH(MHz)=2560MHz

SAR Values (Head, LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Tes | Test Case | | Measure Conducted | Tune-uplimit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-----------------|-----------|-------|----------------------|--------------|-------------------|-------------------------------|--------------------------------|
| Position | mode | | Power (dBm) | (dBm) | Factor | 1 g Average | 1g Average |
| Left | | L | 21.40 | 23 | 1.45 | | |
| cheek | | М | 22.50 | 23 | 1.12 | 0.057 | 0.064 |
| CHEEK | SHEEK | Н | 22.00 | 23 | 1.26 | | |
| Left | | L | 21.40 | 23 | 1.45 | | |
| Tilted | | M | 22.50 | 23 | 1.12 | 0.020 | 0.022 |
| Tilleu | 20 BW | Н | 22.00 | 23 | 1.26 | | |
| Diabt | 50%RB | L | 21.40 | 23 | 1.45 | | |
| Right cheek | | М | 22.50 | 23 | 1.12 | 0.029 | 0.033 |
| CHEEK | | Н | 22.00 | 23 | 1.26 | | |
| Right Tilted | L | 21.40 | 23 | 1.45 | | | |
| | М | 22.50 | 23 | 1.12 | 0.035 | 0.039 | |
| Tilleu | | Н | 22.00 | 23 | 1.26 | | |



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Mode: LTE BAND7- 20BW-50%RB

fL(MHz)=2510 MHz fH(MHz)=2560MHzfM(MHz)=2535MHz

SAR Values (body, LTE BAND7)

Limit of SAR (W/kg): <1.6W/kg(1g Average)

| Test Case | | СН | Measure Conducted Power | Tune-up limit | Scaling Factor | Measure Results (W/kg) | Reported Results (W/kg) |
|-------------------|-------------|----|-------------------------------|------------------|-------------------|------------------------------|-------------------------------|
| Position | mode | | (dBm) | (dBm) | racioi | 1 g Average | 1g Average |
| | | L | 21.40 | 23 | 1.45 | | |
| TG | 20 BW 50%RB | М | 22.50 | 23 | 1.12 | 0.613 | 0.688 |
| | | Н | 22.00 | 23 | 1.26 | | |
| | 20 BW 50%RB | L | 21.40 | 23 | 1.45 | | |
| TP | | М | 22.50 | 23 | 1.12 | 0.270 | 0.303 |
| | | Ι | 22.00 | 23 | 1.26 | | |
| Hotopot | | | 21.40 | 23 | 1.45 | | |
| Hotspot EDGE 2 | | М | 22.50 | 23 | 1.12 | | |
| EDGE 2 | | Η | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 21.40 | 23 | 1.45 | | |
| Hotspot EDGE 3 | 20 BW 50%RB | М | 22.50 | 23 | 1.12 | | |
| | | Ι | 22.00 | 23 | 1.26 | | |
| Hotopot | | L | 21.40 | 23 | 1.45 | | |
| Hotspot EDGE 4 | | М | 22.50 | 23 | 1.12 | | |
| EDGE 4 | | Η | 22.00 | 23 | 1.26 | | |

Note: The distance between the EUT and the phantom bottom is 10mm.

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6.11 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

6.11.1 The Highest Measured SAR configuration in Each Frequency Band

| Frequency band(MHz) | Air interface | Head(w/kg) | Body(w/kg) |
|---------------------|-------------------------------------|------------|------------|
| 850 | GSM850 WCDMA BAND5 LTE BAND5 | <0.8 | <0.8 |
| 1700 | WCDMA BAND4 LTE BAND4 | <0.8 | <0.8 |
| 1900 | GSM1900 WCDMA BAND2 LTE BAND2 | <0.8 | <0.8 |
| 2450 | WiFi 802.11b/g/n LTE BAND7 | <0.8 | <0.8 |



6.12 Simultaneous Transmission SAR Analysis

The sum of SAR values for GSM & WiFi

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY |
|------|----------------------------|----------------------------|
| GSM | 0.322 | 0.981 |
| WiFi | 0.417 | 0.417 |
| Sum | 0.739 | 1.398 |
| Note | GSM850+WIFI RIGHT cheek | EGPRS1900+WIFI TG |

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

The sum of SAR values for WCDMA & WiFi

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY |
|-------|-----------------------------|----------------------------|
| WCDMA | 0.509 | 1.012 |
| WiFi | 0.417 | 0.417 |
| Sum | 0.926 | 1.429 |
| Note | WCDMA BAND4+WIFI Left cheek | WCDMA BAND4+WIFI TG |

According to the above tables, the sum of SAR values for GSM and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

The sum of SAR values for LTE & WiFi

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY | | |
|------|----------------------------|----------------------------|--|--|
| LTE | 0.464 | 0.934 | | |
| WiFi | 0.417 | 0.417 | | |
| Sum | 0.881 | 1.351 | | |
| Note | LTE BAND2+WIFI Left cheek | LTE BAND2+WIFI TG | | |

According to the above tables, the sum of SAR values for LTE and WiFi < 1.6W/kg. So simultaneous transmission SAR are not required for WiFi transmitter.

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According to the formula (KDB447498 4.3.2) the Bluetooth SAR as follow: [(max.power of channel, including tune-up tolerance,mw)/(min.test separation distance,mm)] [√f(GHz)/x] W/kg for test separation distances≦50mm.

Head:

min. test separation distance = 5mm

Body:

min. test separation distance = 10mm

Where x=7.5 for 1-g SAR, and x=18.75 for 10-g SAR.

The sum of SAR values for GSM & Bluetooth

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY |
|-----------|-------------------------------|----------------------------|
| GSM | 0.322 | 0.981 |
| Bluetooth | 0.033 | 0.033 |
| Sum | 0.355 | 1.014 |
| Note | GSM850+BT Right cheek | GSM1900+BT TG |

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

The sum of SAR values for WCDMA & Bluetooth

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY |
|-----------|-------------------------------|----------------------------|
| WCDMA | 0.509 | 1.012 |
| Bluetooth | 0.033 | 0.033 |
| Sum | 0.542 | 1.045 |
| Note | WCDMA BAND4+WIFI Left cheek | WCDMA BAND4+WIFI TG |

According to the above tables, the sum of SAR values for GSM and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

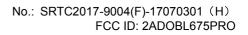
The sum of SAR values for LTE & Bluetooth

| | MAXIMUM SAR VALUE FOR HEAD | MAXIMUM SAR VALUE FOR BODY |
|-----------|-------------------------------|----------------------------|
| LTE | 0.464 | 0.934 |
| Bluetooth | 0.033 | 0.033 |
| Sum | 0.497 | 0.967 |
| Note | LTE BAND2+WIFI Left cheek | LTE BAND2+WIFI TG |

According to the above tables, the sum of SAR values for LTE and Bluetooth < 1.6W/kg. So simultaneous transmission SAR are not required for Bluetooth transmitter.

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7 MEASUREMENT UNCERTAINTY

| DASY5 Uncertainty Budget | | | | | | | | |
|-------------------------------|-------------------|----------------|------------|--------------------------------|---------------------------------|---------------|----------------|--------------|
| Error description | Uncertainty value | Prob. Dist. | Div. | (<i>c_i</i>) 1g | (<i>c_i</i>) 10g | Std.Unc (1g). | Std.Unc. (10g) | (vi) Veff |
| Measurement system | | | | | | | | |
| Probe calibration | ±6.0% | N | 1 | 1 | 1 | ±6.0% | ±6.0% | ∞ |
| Axial isotropy | ±4.7% | R | $\sqrt{3}$ | 0.7 | 0.7 | ±1.9% | ±1.9% | ∞ |
| Hemispherical isotropy | ±9.6% | R | $\sqrt{3}$ | 0.7 | 0.7 | ±3.9% | ±3.9% | ∞ |
| Boundary Effects | ±1.0% | R | $\sqrt{3}$ | 1 | 1 | ±0.6% | ±0.6% | ∞ |
| Linearity | ±4.7% | R | $\sqrt{3}$ | 1 | 1 | ±2.7% | ±2.7% | ∞ |
| System detection limits | ±1.0% | R | $\sqrt{3}$ | 1 | 1 | ±0.6% | ±0.6% | 8 |
| Readout electronics | ±0.3% | N | 1 | 1 | 1 | ±0.3% | ±0.3% | ∞ |
| Response time | ±0.8% | R | $\sqrt{3}$ | 1 | 1 | ±0.5% | ±0.5% | ∞ |
| Integration time | ±2.6% | R | $\sqrt{3}$ | 1 | 1 | ±1.5% | ±1.5% | ∞ |
| RF ambient noise | ±3.0% | R | $\sqrt{3}$ | 1 | 1 | ±1.7% | ±1.7% | 8 |
| RF ambient reflections | ±3.0% | R | $\sqrt{3}$ | 1 | 1 | ±1.7% | ±1.7% | 8 |
| Probe positioner | ±0.4% | R | $\sqrt{3}$ | 1 | 1 | ±0.2% | ±0.2% | ∞ |
| Probe positioning | ±2.9% | R | $\sqrt{3}$ | 1 | 1 | ±1.7% | ±1.7% | ∞ |
| Max.SAR Eval. | ±1.0% | R | $\sqrt{3}$ | 1 | 1 | ±0.6% | ±0.6% | ∞ |
| Test Sample Related | | | | | | | | |
| Device holder | ±3.6% | N | 1 | 1 | 1 | ±3.6% | ±3.6% | 5 |
| Device Positioning | ±2.9% | N | 1 | 1 | 1 | ±2.9% | ±2.9% | 145 |
| Power drift | ±5.0% | R | $\sqrt{3}$ | 1 | 1 | ±2.9% | ±2.9% | ∞ |
| Phantom and Setup | | | | | | | | |
| Phantom uncertainty | ±4.0% | R | $\sqrt{3}$ | 1 | 1 | ±2.3% | ±2.3% | ∞ |
| Liquid conductivity (target.) | ±5.0% | R | $\sqrt{3}$ | 0.64 | 0.43 | ±1.8% | ±1.2% | ∞ |
| Liquid conductivity (mea.) | ±2.5% | R | $\sqrt{3}$ | 0.64 | 0.43 | ±0.9% | ±0.6% | 8 |
| Liquid Permittivity (target.) | ±5.0% | R | $\sqrt{3}$ | 0.60 | 0.49 | ±1.7% | ±1.4% | ∞ |
| Liquid Permittivity (mea.) | ±2.5% | R | $\sqrt{3}$ | 0.60 | 0.49 | ±0.9% | ±0.7% | ∞ |
| Combined std. Uncertainty | | | | | | ±10.9% | ±10.7% | 387 |
| Expanded STD Uncertainty | | | | | | ±21.7% | ±21.4% | |

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8 TEST EQUIPMENTS

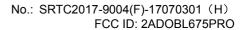
The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

| Test Equipment | Model | Serial Number | Calibration date | Calibration Due data |
|--------------------------|---------|---------------|------------------|-------------------------|
| DAE | DAE4 | 720 | 2016.10.31 | 2017.10.30 |
| DAE | DAE4 | 546 | 2016.08.22 | 2017.08.21 |
| Dosimetric E-field Probe | EX3DV4 | 3708 | 2016.11.10 | 2017.11.09 |
| Dosimetric E-field Probe | ES3DV3 | 3127 | 2016.08.29 | 2017.08.28 |
| Dipole Validation Kit | D835V2 | 4d023 | 2016.10.24 | 2017.10.23 |
| Dipole Validation Kit | D1800V2 | 2d084 | 2016.08.19 | 2017.08.18 |
| Dipole Validation Kit | D1900V2 | 5d113 | 2016.10.31 | 2017.10.30 |
| Dipole Validation Kit | D2450V2 | 738 | 2016.10.25 | 2017.10.24 |

Additional test equipment used in testing:

| Test Equipment | Model | Serial | Calibration | Calibration |
|----------------------------|----------|------------|-------------|-------------|
| ' ' | | Number | date | Due data |
| Signal Generator | E4428C | MY45280865 | 2016.08.20 | 2017.08.19 |
| Signal Generator | SML 03 | 103514 | 2016.08.20 | 2017.08.19 |
| Power meter | E4417A | MY45101182 | 2016.08.20 | 2017.08.19 |
| Power Sensor | E4412A | MY41502214 | 2016.08.20 | 2017.08.19 |
| Power Sensor | E4412A | MY41502130 | 2016.08.20 | 2017.08.19 |
| Power meter | E4417A | MY45101004 | 2016.08.20 | 2017.08.19 |
| Power Sensor | E9300B | MY41496001 | 2016.08.20 | 2017.08.19 |
| Power Sensor | E9300B | MY41496003 | 2016.08.20 | 2017.08.19 |
| Communication Tester | 8960 | GB43194054 | 2016.08.20 | 2017.08.19 |
| Communication Tester | CMU200 | 114666 | 2016.08.20 | 2017.08.19 |
| Vector Network Analyzer | VNA R140 | 0011213 | 2016.08.20 | 2017.08.19 |
| Dielectric Parameter Probe | DAKS-3.5 | 1042 | 2016.08.20 | 2017.08.19 |



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Detailed information of Isotropic E-field Probe Type ES3DV3

| Dotalloa illioilliation | of isotropic E-field i fobe Type ESSEVS |
|------------------------------------|---|
| Construction | Symmetrical design with triangular core Interleaved sensors Built-in |
| | shielding against static charges PEEK enclosure material (resistant to |
| | organic solvents, e.g., DGBE) |
| Calibration | Calibration certificate in Appendix C |
| Frequency | 10 MHz to 4 GHz; |
| | Linearity: ± 0.2 dB (30 MHz to 4 GHz) |
| Optical Surface | ± 0.2 mm repeatability in air and clear liquids over diffuse reflecting |
| Detection | surfaces |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) |
| Tip diameter: 3.9 mm (Body: 12 mm) | |
| | Distance from probe tip to dipole centers: 2.0 mm |
| Dynamic Range | 5 μW/g to > 100 W/kg; Linearity: ± 0.2 dB |
| Application | General dosimetry up to 4 GHz |
| | Dosimetry in strong gradient fields |
| | Compliance tests of mobile phones |

Detailed information of Isotropic E-field Probe Type EX3DV4

| <u> </u> | Critediapie E riciar reservit |
|-----------------|---|
| Construction | Symmetrical design with triangular core Built-in shielding against static |
| | charges PEEK enclosure material (resistant to organic solvents, e.g., |
| | DGBE) |
| Calibration | Calibration certificate in Appendix C |
| Frequency | 10 MHz to > 6 GHz |
| , , | Linearity: ± 0.2 dB (30 MHz to 6 GHz) |
| Optical Surface | ± 0.3 mm repeatability in air and clear liquids over diffuse reflecting |
| Detection | surfaces |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) |
| | Tip diameter: 2.5 mm (Body: 12 mm) |
| | Typical distance from probe tip to dipole centers: 1 mm |
| Dynamic Range | 10 μW/g to > 100 W/kg |
| | Linearity: ± 0.2 dB (noise: typically < 1 μW/g) |
| Application | High precision dosimetric measurements in any exposure scenario |
| | (e.g., very strong gradient fields); the only probe that enables |
| | compliance testing for frequencies up to 6 GHz with precision of better |
| | 30%. |
| | 0070. |

ANNEX A - TEST PLOTS

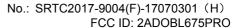
Please refer to the attachment.

ANNEX B - RELEVANT PAGES FROM CALIBRATION REPORTS

Please refer to the attachment.

ANNEX C – PHOTOGRAPH

Please refer to the attachment.



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ANNEX A - TEST PLOTS

SYSTEM CHECKING SCANS 835MHz Head

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (extrapolated): f = 835 MHz; σ = 0.909 S/m; ϵ_r = 42.108; ρ = 1000

kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE 1528-2013)

DASY Configuration:

Probe: ES3DV3 - SN3127; ConvF(5.97, 5.97, 5.97); Calibrated: 8/21/2015;

- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1559; Type: SAM; Serial: 1559
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.98 W/kg

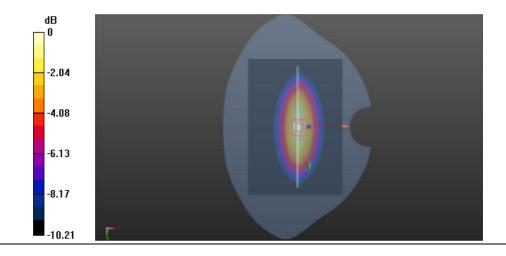
System Performance Check at Frequencies 835MHz Head/d=15mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

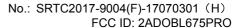
Reference Value = 54.113 V/m: Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.98 W/kg







835MHz Flat

Communication System: UID 0, CW (0); Frequency: 835 MHz

Medium parameters used (extrapolated): f = 835 MHz; σ = 0.978 S/m; ϵ_r = 53.846; ρ = 1000

kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE 1528-2013)

DASY Configuration:

Probe: ES3DV3 - SN3127; ConvF(5.88, 5.88, 5.88); Calibrated: 8/21/2015;

• Sensor-Surface: 4mm (Mechanical Surface Detection), z = -18.0, 32.0

• Electronics: DAE4 Sn546; Calibrated: 8/19/2015

Phantom: SAM 1559; Type: SAM; Serial: 1559

DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

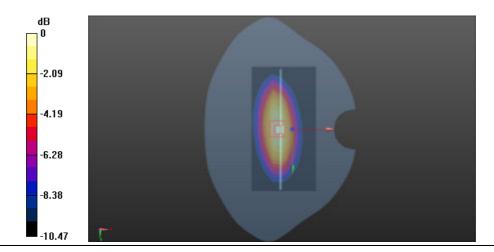
Maximum value of SAR (measured) = 2.55 W/kg

System Performance Check at Frequencies 835MHz Flat/d=15mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.044 V/m; Power Drift = -0.01 dB

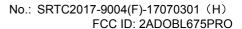
Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.53 W/kg Maximum value of SAR (measured) = 2.87 W/kg



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1900MHz Head

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Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; σ = 1.41 S/m; ϵ_r = 40.84; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 SN3127; ConvF(4.94, 4.94, 4.94); Calibrated: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1560; Type: SAM; Serial: 1560
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (9x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.0 W/kg

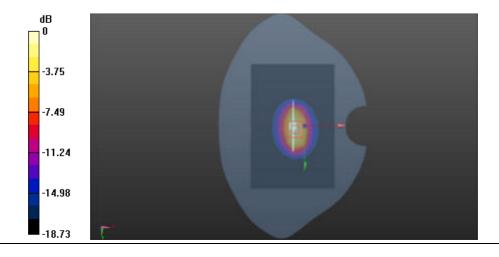
System Performance Check at Frequencies 1900MHz Head/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

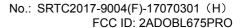
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.996 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.47 W/kg Maximum value of SAR (measured) = 15.9 W/kg







1900MHz Flat

Communication System: UID 0, CW (0); Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; σ = 1.53 S/m; ϵ_r = 52.184; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE 1528-2013)

DASY Configuration:

- Probe: ES3DV3 SN3127; ConvF(4.67, 4.67, 4.67); Calibrated: 8/21/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn546; Calibrated: 8/19/2015
- Phantom: SAM 1560; Type: SAM; Serial: 1560
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

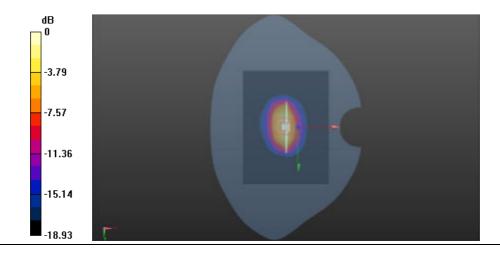
Maximum value of SAR (measured) = 14.7 W/kg

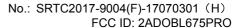
System Performance Check at Frequencies 1900MHz Flat/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.541 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.2 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.64 W/kg Maximum value of SAR (measured) = 14.5 W/kg







2450 MHz Head

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Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.79 \text{ S/m}$; $\epsilon_r = 39.208$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3127; ConvF(4.35, 4.35, 4.35); Calibrated: 2015/8/21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2015/8/19
- Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164) System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1): Measurement grid: dx=15mm, dv=15mm

Maximum value of SAR (measured) = 17.1 W/kg

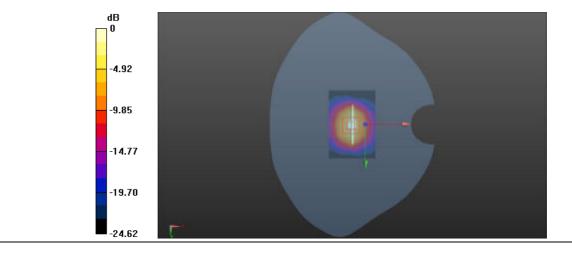
System Performance Check at Frequencies 2450MHz Head/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

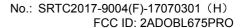
Reference Value = 102.2 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 28.8 W/kg

SAR(1 g) = 13.12 W/kg; SAR(10 g) = 5.92 W/kg

Maximum value of SAR (measured) = 17.0 W/kg







2450MHz Flat

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Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.965$ S/m; $\epsilon_r = 52.042$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3127; ConvF(4.19, 4.19, 4.19); Calibrated: 2015/8/21;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn546; Calibrated: 2015/8/19
- Phantom: SAM 1659; Type: QD000P40CD; Serial: TP:1659
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)
 System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

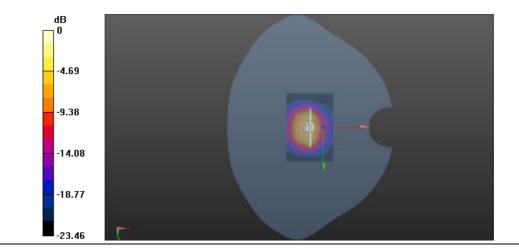
Maximum value of SAR (measured) = 17.1 W/kg

System Performance Check at Frequencies 2450MHz Flat/d=10mm, Pin=250 mW, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.3 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 12.93 W/kg; SAR(10 g) = 5.78 W/kg Maximum value of SAR (measured) = 17.4 W/kg



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GSM (850MHz/Head)

| Left Side | Cheek |
|-----------|-------|
|-----------|-------|

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ S/m; $\varepsilon_r = 41.478$; $\rho = 1000$

kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Head-Section Left HSL 850/850GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0699 W/kg

Head-Section Left HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:

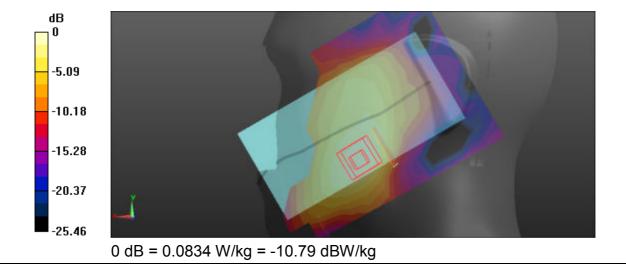
Measurement grid: dx=5mm, dy=5mm, dz=5mm

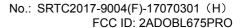
Reference Value = 2.323 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.042 W/kg

Maximum value of SAR (measured) = 0.0834 W/kg





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Left Side Tilt

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz;Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; ϵ_r = 41.478; ρ = 1000

kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Left HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0265 W/kg

Head-Section Left HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.598 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.0510 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.016 W/kg

Maximum value of SAR (measured) = 0.0303 W/kg



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| Right Side | Cheek |
|------------|-------|
| | |

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz;Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 S/m; ϵ_r = 41.478; ρ = 1000

kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn720; Calibrated: 2016/10/31

• Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 850/850GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.258 W/kg

Head-Section Right HSL 850/850GSM HSL touch M/Zoom Scan (7x7x7)/Cube 0:

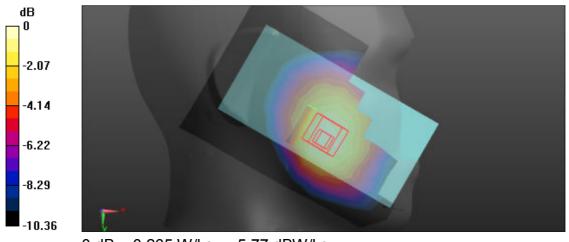
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.684 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.334 W/kg

SAR(1 q) = 0.252 W/kq; SAR(10 q) = 0.191 W/kq

Maximum value of SAR (measured) = 0.265 W/kg



0 dB = 0.265 W/kg = -5.77 dBW/kg



| Right Side | Tilt |
|------------|------|
| | |

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 41.478$; $\rho = 1000$

kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.05, 9.05, 9.05); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section Right HSL 850/850GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.134 W/kg

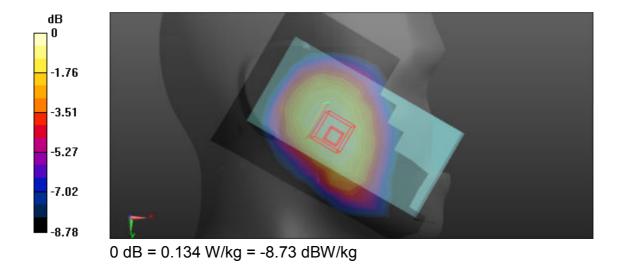
Head-Section Right HSL 850/850GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.250 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.101 W/kg



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GSM with headset (850MHz/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720: Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL 850 TP/850GSM TP M 10mm/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.378 W/kg

Flat-Section MSL 850 TP/850GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

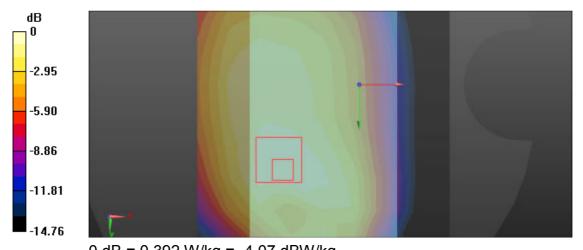
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.66 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 0.392 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.96$ S/m; $\epsilon_r = 55.858$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850GSM TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.447 W/kg

Flat-Section MSL 850 TG/850GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

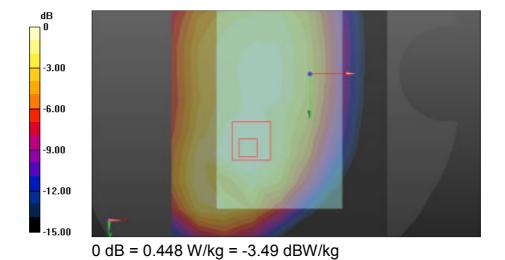
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.99 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.591 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.448 W/kg





GSM (850MHz with GPRS/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz;Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720: Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TP/850GPRS TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.723 W/kg

Flat-Section MSL 850 TP/850GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

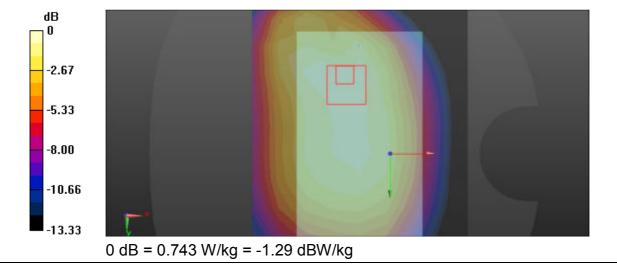
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.20 V/m; Power Drift = -0.02 dB

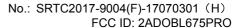
Peak SAR (extrapolated) = 0.983 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.503 W/kg

Maximum value of SAR (measured) = 0.743 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850GPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.821 W/kg

Flat-Section MSL 850 TG/850GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

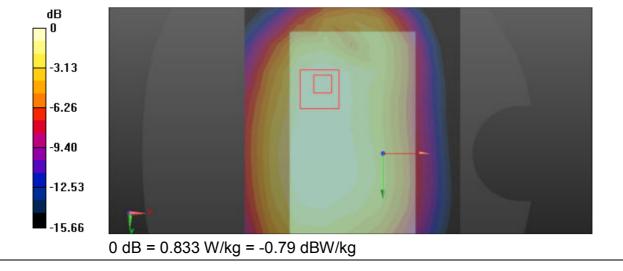
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.07 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.563 W/kg

Maximum value of SAR (measured) = 0.833 W/kg





GSM (850MHz with EGPRS/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720: Calibrated: 2016/10/31
- Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TP/850EDGE TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.709 W/kg

Flat-Section MSL 850 TP/850EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

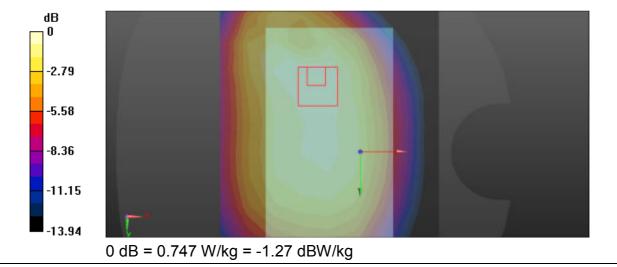
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.06 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.975 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.504 W/kg

Maximum value of SAR (measured) = 0.747 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

ka/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.829 W/kg

Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

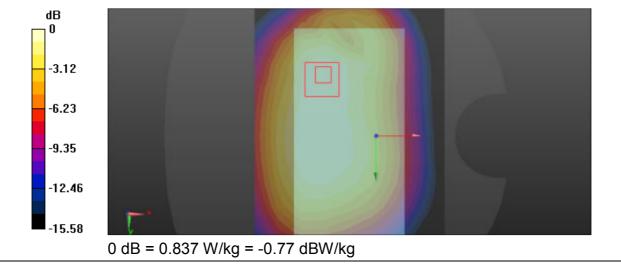
Measurement grid: dx=5mm, dy=5mm, dz=5mm

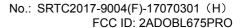
Reference Value = 27.01 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.565 W/kg

Maximum value of SAR (measured) = 0.837 W/kg





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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.801 W/kg

Flat-Section MSL 850 TG/850EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

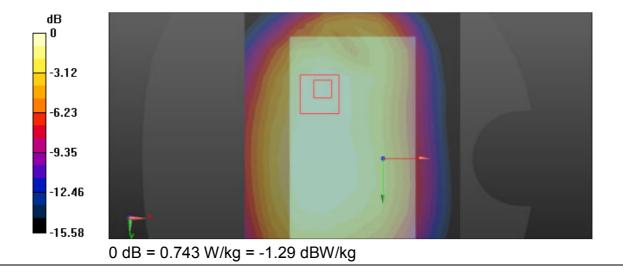
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.29 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.98 W/kg

SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 0.758 W/kg



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| FLAT | EDGE2 |
|------|-------|
| | |

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.96$ S/m; $\varepsilon_r = 55.858$; $\rho = 1000$

kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.320 W/kg

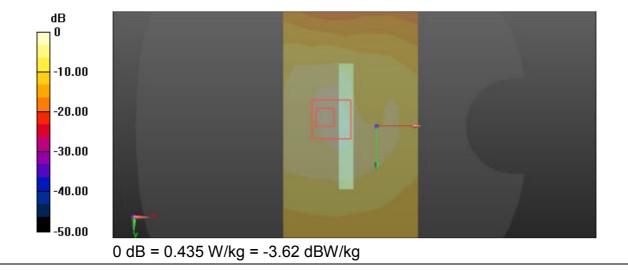
Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 2/Zoom Scan

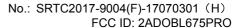
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.86 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.750 W/kg

SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.189 W/kg Maximum value of SAR (measured) = 0.435 W/kg





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FLAT EDGE3

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

ka/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.750 W/kg

Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 3/Zoom Scan

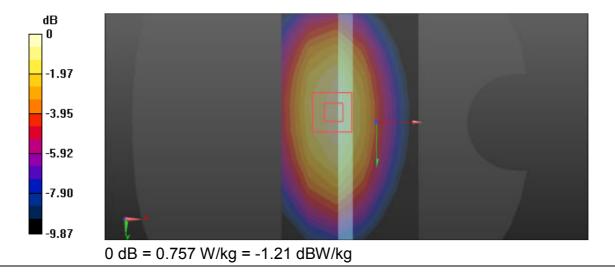
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

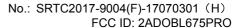
Reference Value = 26.89 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.480 W/kg

Maximum value of SAR (measured) = 0.757 W/kg





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FLAT EDGE4

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.858; ρ = 1000

ka/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(9.1, 9.1, 9.1); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1659; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.325 W/kg

Flat-Section MSL GSM850 HOT/850EGPRS TP H edge 4/Zoom Scan

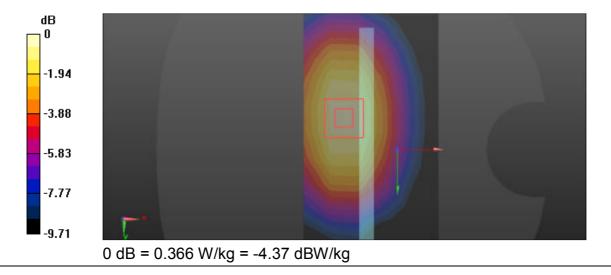
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.00 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.233 W/kg

Maximum value of SAR (measured) = 0.366 W/kg





GSM (1900MHz/Head)

Left Side Cheek

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.202 W/kg

Head-Section HSL 1900 LEFT/1900GSM HSL touch M/Zoom Scan (7x7x7)/Cube

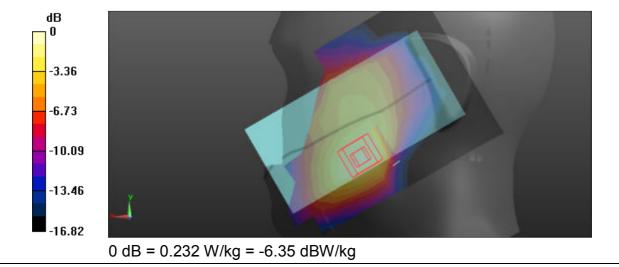
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.793 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.318 W/kg

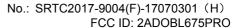
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.136 W/kg

Maximum value of SAR (measured) = 0.232 W/kg



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Left Side Tilt

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0635 W/kg

Head-Section HSL 1900 LEFT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:

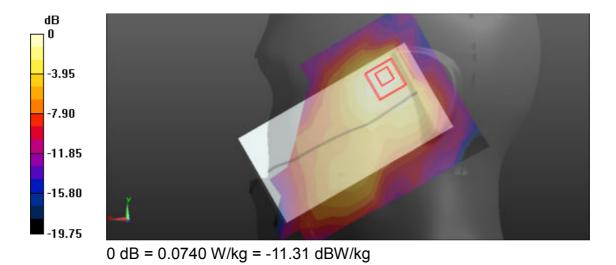
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.909 V/m; Power Drift = -0.20 dB

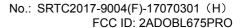
Peak SAR (extrapolated) = 0.0950 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.045 W/kg

Maximum value of SAR (measured) = 0.0740 W/kg



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Right Side Cheek

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz;Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.146 W/kg

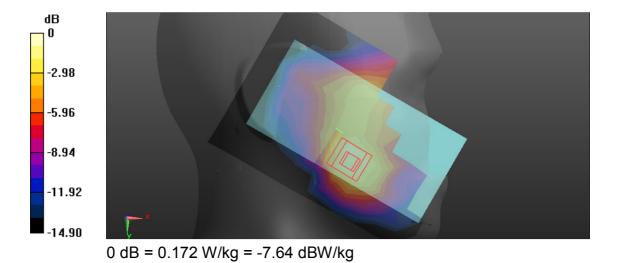
Head-Section HSL 1900 RIGHT/1900GSM HSL touch M/Zoom Scan

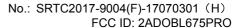
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.643 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.226 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.099 W/kg Maximum value of SAR (measured) = 0.172 W/kg





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Right Side Tilt

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz;Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0536 W/kg

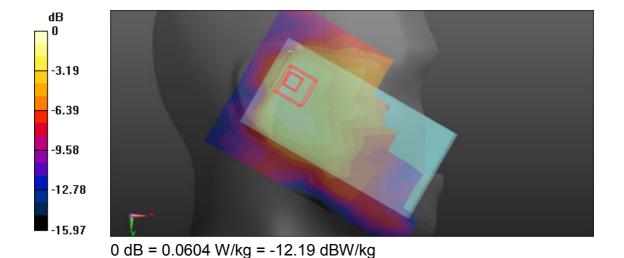
Head-Section HSL 1900 RIGHT/1900GSM HSL tilt M/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.462 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0890 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.036 W/kg Maximum value of SAR (measured) = 0.0604 W/kg



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GSM with headset (1900MHz/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz;Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.218 W/kg

Flat-Section MSL 1900 TP/1900GSM TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

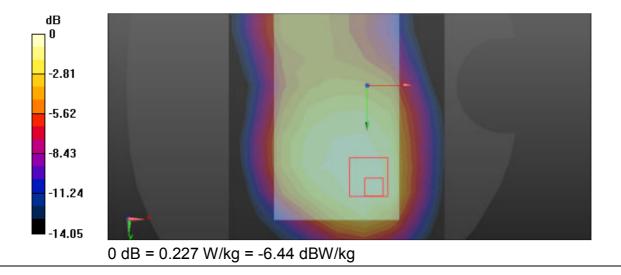
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.398 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.338 W/kg

SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 0.227 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.505 W/kg

Flat-Section MSL 1900 TG/1900GSM TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

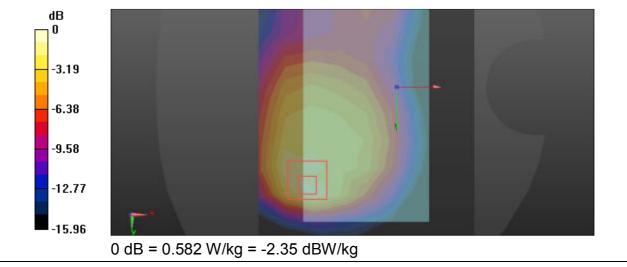
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.683 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.302 W/kg

Maximum value of SAR (measured) = 0.582 W/kg





GSM (1900MHz with GPRS/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz;Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.396 W/kg

Flat-Section MSL 1900 TP/1900GPRS TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

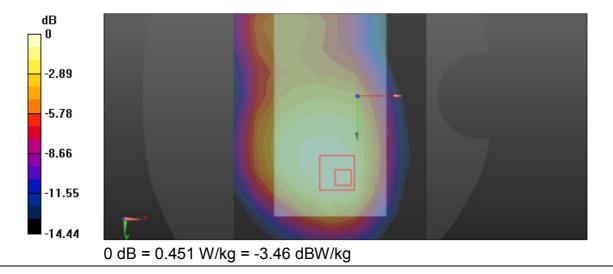
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.61 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.668 W/kg

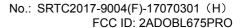
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.269 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.730 W/kg

Flat-Section MSL 1900 TG/1900GPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

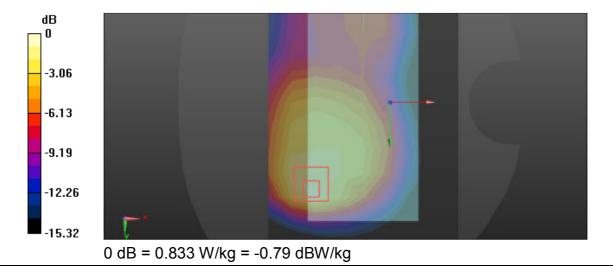
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.59 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.757 W/kg; SAR(10 g) = 0.450 W/kg

Maximum value of SAR (measured) = 0.833 W/kg



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GSM (1900MHz with EGPRS/Flat)

FLAT Towards phantom

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz;Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.522 W/kg

Flat-Section MSL 1900 TP/1900EDGE TP M 10mm/Zoom Scan (7x7x7)/Cube 0:

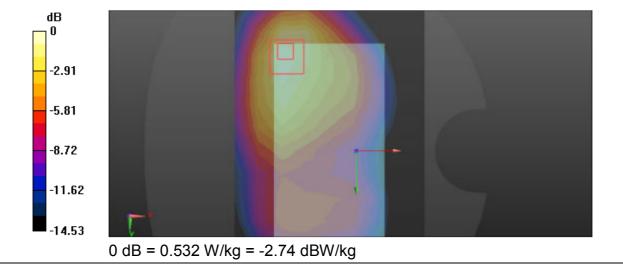
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.130 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.294 W/kg

Maximum value of SAR (measured) = 0.532 W/kg





FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.748 W/kg

Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

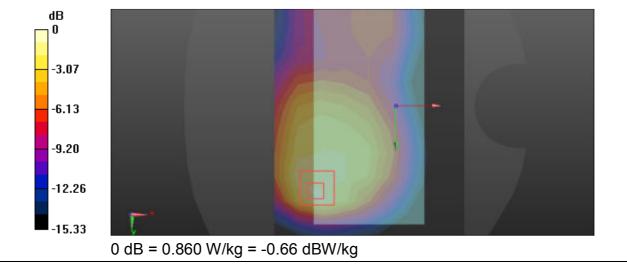
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.69 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.462 W/kg

Maximum value of SAR (measured) = 0.860 W/kg



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FLAT Towards ground

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

• Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Area Scan (9x13x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.631 W/kg

Flat-Section MSL 1900 TG/1900EGPRS TG M 10mm/Zoom Scan (7x7x7)/Cube 0:

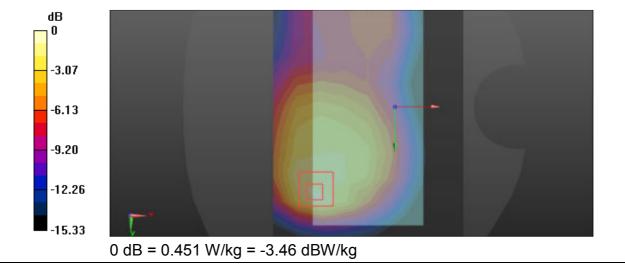
Measurement grid: dx=5mm, dy=5mm, dz=5mm

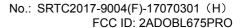
Reference Value = 11.53 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.398 W/kg

Maximum value of SAR (measured) = 0.739 W/kg





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FLAT EDGE2

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.419 W/kg

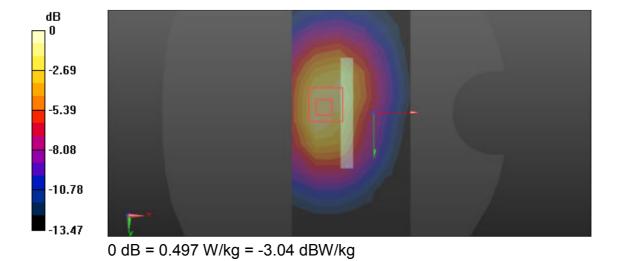
Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 2/Zoom Scan

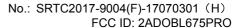
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.32 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.716 W/kg

SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.273 W/kg Maximum value of SAR (measured) = 0.497 W/kg





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FLAT EDGE3

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.135 W/kg

Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 3/Zoom Scan

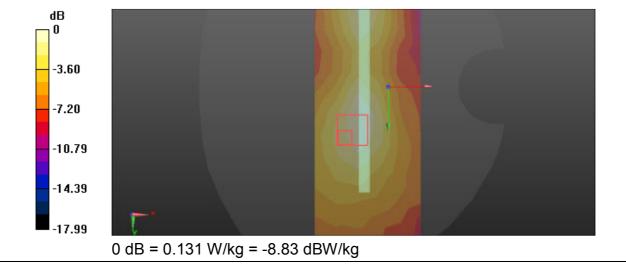
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

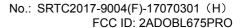
Reference Value = 7.485 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.064 W/kg

Maximum value of SAR (measured) = 0.131 W/kg





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FLAT EDGE4

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz; Duty Cycle: 1:8.6896

Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ϵ_r = 51.14; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3708; ConvF(7.79, 7.79, 7.79); Calibrated: 2016/11/10;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn720; Calibrated: 2016/10/31

Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Area Scan (6x15x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.178 W/kg

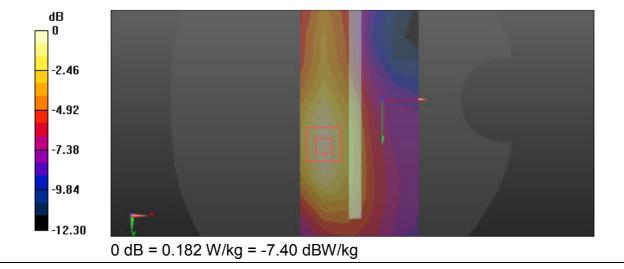
Flat-Section MSL 1900 HOTSPOT/1900EGPRS TP H edge 4/Zoom Scan

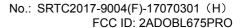
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.377 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.252 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.107 W/kg Maximum value of SAR (measured) = 0.182 W/kg





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WCDMA Band 2

Left Side Cheek

Communication System: UID 0, band 2 (0); Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.45 S/m; ϵ_r = 39.74; ρ = 1000 kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN3708; ConvF(7.84, 7.84, 7.84); Calibrated: 2016/11/10;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn720; Calibrated: 2016/10/31
- Phantom: 1660; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)
 Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Area Scan
 (9x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.392 W/kg

Head-Section HSL wcdma band2 Left/wcdma band2 HSL touch M/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.210 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 0.599 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.225 W/kg Maximum value of SAR (measured) = 0.404 W/kg

