

## RF Exposure report



The following samples were submitted and identified on behalf of the client as:

**Product Name** POS Terminal  
**Brand Name**   
**Model No.** S1E2-L  
**Applicant** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)  
**Standards** IEEE/ANSI C95.1-1992, IEEE 1528-2013  
**FCC ID** WIYS1E2L001  
**Date of EUT Receipt** Jul. 19, 2022  
**Date of Test(s)** Sep. 09, 2022 ~ Sep. 12, 2022  
**Date of Issue** Oct. 24, 2022

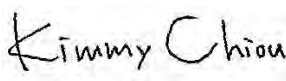
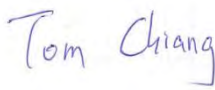
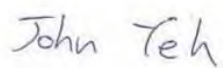
In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Signed on behalf of SGS**

| Clerk / Kimmy Chiou                                                                 | PM / Tom Chiang                                                                     | Approved By / John Yeh                                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |

Date: Oct. 24, 2022

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## Revision History

| Report Number    | Revision | Description                  | Issue Date    | Revised By  | Remark |
|------------------|----------|------------------------------|---------------|-------------|--------|
| TESA2210000417E5 | 00       | Initial creation of document | Oct. 24, 2022 | Kimmy Chiou |        |
|                  |          |                              |               |             |        |
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|                  |          |                              |               |             |        |

**Note:**

1. The mark " \* " is the revised version of the report due to comments submitted by the certification.
2. Please be noted that the report TESA2210000417E5 will replace the previous TESA2207000221E5 as the new version. Also be pay attention that TESA2207000221E5 is ineffective anymore from now on.

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## 1 GENERAL INFORMATION

### 1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D07v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB248227D01v02r01

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## 1.2 Description of EUT

|                                            |                                                                                   |                            |
|--------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|
| Product Name                               | POS Terminal                                                                      |                            |
| Brand Name                                 |  |                            |
| Model No.                                  | S1E2-L                                                                            |                            |
| FCC ID                                     | WIYS1E2L001                                                                       |                            |
| Integrated Module                          | Brand Name: MEIGLink<br>Model Name: SLM758                                        |                            |
| Duty Cycle                                 | WCDMA                                                                             | 1                          |
|                                            | LTE FDD                                                                           | 1                          |
|                                            | WLAN802.11                                                                        | Please refer to page 58-59 |
|                                            | Bluetooth                                                                         | 1                          |
| Supported radios (TX Frequency Range, MHz) | WCDMA Band II                                                                     | 1850-1910                  |
|                                            | WCDMA Band IV                                                                     | 1710-1755                  |
|                                            | WCDMA Band V                                                                      | 824-849                    |
|                                            | LTE FDD Band 2                                                                    | 1850-1910                  |
|                                            | LTE FDD Band 4                                                                    | 1710-1755                  |
|                                            | LTE FDD Band 5                                                                    | 824-849                    |
|                                            | LTE FDD Band 7                                                                    | 2500-2570                  |
|                                            | LTE FDD Band 12                                                                   | 699-716                    |
|                                            | LTE FDD Band 13                                                                   | 777-787                    |
|                                            | LTE FDD Band 17                                                                   | 704-716                    |
|                                            | 802.11 b/g/n                                                                      | 2.4GHz                     |
|                                            | 802.11a                                                                           | 5.2GHz<br>5.8GHz           |
|                                            | Bluetooth                                                                         | 2.4GHz                     |

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### 1.3 Maximum value

#### WWAN

| Summary of Maximum SAR Value |                            |
|------------------------------|----------------------------|
| Mode                         | Highest SAR 1g Body (W/kg) |
| LTE_Band 4                   | 1.05                       |

#### WLAN

| Summary of Maximum SAR Value |                            |
|------------------------------|----------------------------|
| Mode                         | Highest SAR 1g Body (W/kg) |
| Bluetooth(GFSK)              | 0.18                       |
| 2.4G WLAN                    | 0.97                       |
| 5G WLAN                      | 1.01                       |

### 1.4 Antenna Information

#### WWAN

| Vendor         | PIFA Antenna for LTE application |         |         |           |           |           |           |
|----------------|----------------------------------|---------|---------|-----------|-----------|-----------|-----------|
| Antenna        | Main                             |         |         |           |           |           |           |
| Part Number    | ALF6P-100002                     |         |         |           |           |           |           |
| Frequency(MHz) | 699~716                          | 777~798 | 814~849 | 1710~1780 | 1850~1915 | 2300~2400 | 2496~2690 |
| Gain (dBi)     | -6.541                           | -1.131  | -0.372  | 3.131     | 2.088     | -1.817    | 2.534     |

#### WLAN

| Vendor         | DIPOLE Antenna for WIFI application |           |           |
|----------------|-------------------------------------|-----------|-----------|
| Antenna        | Main                                |           |           |
| Part Number    | ALF6P-100000                        |           |           |
| Frequency(MHz) | 2400~2500                           | 5150~5250 | 5725~5850 |
| Gain (dBi)     | 0.611                               | 0.658     | 2.402     |

Note: Antenna information is provided by the applicant.

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## 2 MEASUREMENT SYSTEM

### 2.1 Test Facility

| Laboratory                                            | Test Site Address                                                                              | Test Site Name | FCC Designation number | IC CAB identifier |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan. | SAR 2          | TW0029                 | TW3702            |
|                                                       |                                                                                                | SAR 6          |                        |                   |
|                                                       | <b>No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan</b>                    | SAR 1          | TW0028                 |                   |
|                                                       |                                                                                                | SAR 4          |                        |                   |
|                                                       | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan       | SAR 3          | TW0027                 |                   |
|                                                       |                                                                                                | SAR 7          |                        |                   |

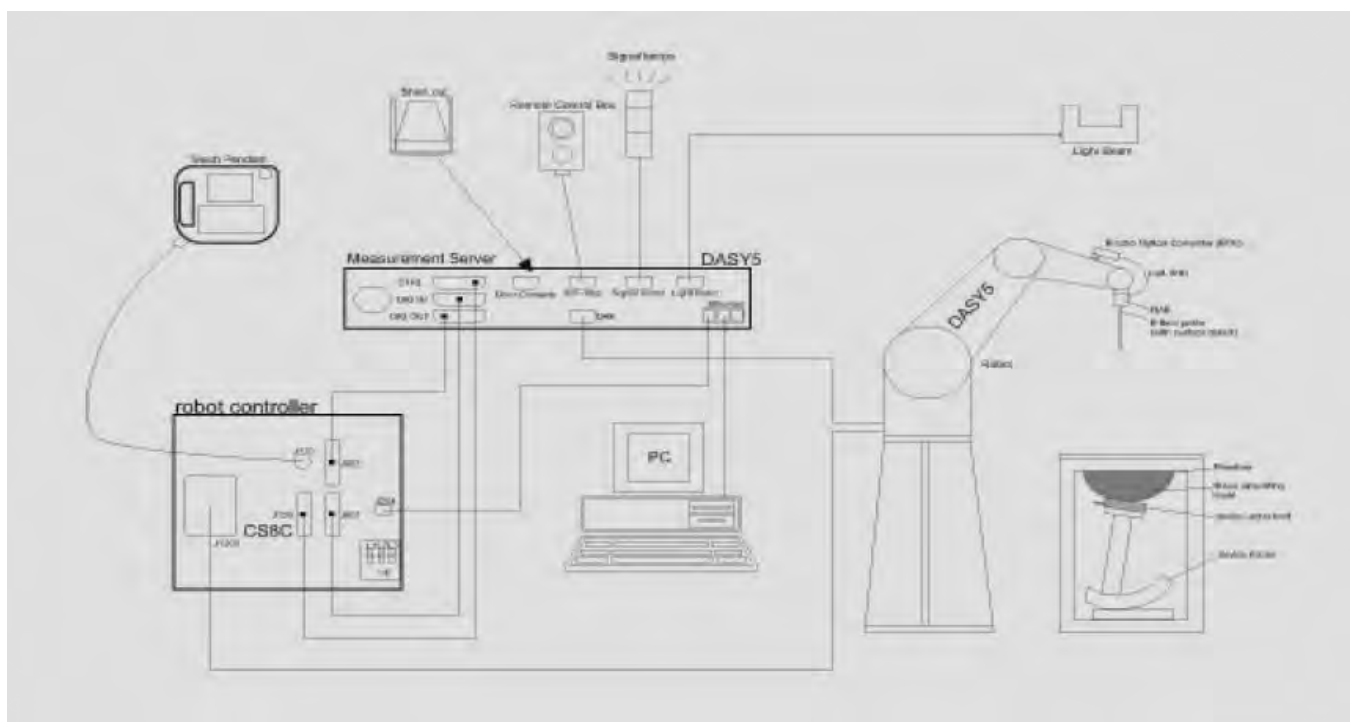
**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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### Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.



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## X3DV4 E-Field Probe

|               |                                                                                                                                                                                                            |                                                                                     |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Construction  | Symmetrical design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                                                |  |
| Calibration   | Basic Broad Band Calibration in air<br>Conversion Factors (CF) for HSL<br>750/835/1750/1900/2450/2600/5250/5750 MHz Additional CF for other liquids and frequencies upon request                           |                                                                                     |
| Frequency     | 10 MHz to > 6 GHz                                                                                                                                                                                          |                                                                                     |
| Directivity   | ± 0.3 dB in HSL (rotation around probe axis)<br>± 0.5 dB in tissue material (rotation normal to probe axis)                                                                                                |                                                                                     |
| Dynamic Range | 10 µW/g to > 100 mW/g<br>Linearity: ± 0.2 dB (noise: typically < 1 µW/g)                                                                                                                                   |                                                                                     |
| Dimensions    | Tip diameter: 2.5 mm                                                                                                                                                                                       |                                                                                     |
| Application   | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |                                                                                     |

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## PHANTOM (ELI)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model           | ELI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |
| Construction    | The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles. |                                                                                     |
| Shell Thickness | 2 ± 0.2 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Filling Volume  | Approx. 30 liters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |
| Dimensions      | Major axis: 600 mm<br>Minor axis: 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |

## DEVICE HOLDER (ELI)

|              |                                                                                                                                                                                        |                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Construction | The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks. |  |
|              |                                                                                                                                                                                        | Device Holder                                                                        |

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### 3 SAR SYSTEM VERIFICATION

#### 3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

#### 3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within  $\pm 5\%$  of the target values.

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## 3.3 Measurement results of Tissue Simulant Liquid

| Tissue Type | Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, $\epsilon_r$ | Target Conductivity, $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon_r$ | Measured Conductivity, $\sigma$ (S/m) | % dev $\epsilon_r$ | % dev $\sigma$ |
|-------------|------------------|--------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------|--------------------|----------------|
| Head        | Sep, 09. 2022    | 704                      | 42.145                                   | 0.887                               | 41.948                                     | 0.885                                 | -0.47%             | -0.20%         |
|             |                  | 707.5                    | 42.127                                   | 0.887                               | 41.927                                     | 0.886                                 | -0.47%             | -0.17%         |
|             |                  | 709                      | 42.119                                   | 0.887                               | 41.922                                     | 0.886                                 | -0.47%             | -0.17%         |
|             |                  | 710                      | 42.113                                   | 0.887                               | 41.916                                     | 0.886                                 | -0.47%             | -0.16%         |
|             |                  | 711                      | 42.108                                   | 0.887                               | 41.911                                     | 0.886                                 | -0.47%             | -0.16%         |
|             |                  | 750                      | 41.900                                   | 0.890                               | 41.709                                     | 0.888                                 | -0.46%             | -0.22%         |
|             |                  | 782                      | 41.749                                   | 0.894                               | 41.542                                     | 0.891                                 | -0.50%             | -0.29%         |
|             |                  | 826.4                    | 41.540                                   | 0.899                               | 41.354                                     | 0.902                                 | -0.45%             | 0.32%          |
|             |                  | 829                      | 41.528                                   | 0.899                               | 41.343                                     | 0.903                                 | -0.45%             | 0.41%          |
|             |                  | 835                      | 41.500                                   | 0.900                               | 41.322                                     | 0.905                                 | -0.43%             | 0.57%          |
|             |                  | 836.5                    | 41.500                                   | 0.902                               | 41.314                                     | 0.906                                 | -0.45%             | 0.47%          |
|             |                  | 836.6                    | 41.500                                   | 0.902                               | 41.314                                     | 0.906                                 | -0.45%             | 0.45%          |
|             |                  | 844                      | 41.500                                   | 0.910                               | 41.289                                     | 0.908                                 | -0.51%             | -0.16%         |
|             |                  | 846.6                    | 41.500                                   | 0.912                               | 41.278                                     | 0.909                                 | -0.54%             | -0.36%         |
|             | Sep, 10. 2022    | 1712.4                   | 40.125                                   | 1.350                               | 39.906                                     | 1.359                                 | -0.55%             | 0.65%          |
|             |                  | 1720                     | 40.114                                   | 1.354                               | 39.893                                     | 1.363                                 | -0.55%             | 0.67%          |
|             |                  | 1732.4                   | 40.097                                   | 1.361                               | 39.874                                     | 1.371                                 | -0.55%             | 0.67%          |
|             |                  | 1732.5                   | 40.096                                   | 1.361                               | 39.873                                     | 1.371                                 | -0.56%             | 0.71%          |
|             |                  | 1745                     | 40.079                                   | 1.369                               | 39.854                                     | 1.378                                 | -0.56%             | 0.70%          |
|             |                  | 1750                     | 40.071                                   | 1.371                               | 39.846                                     | 1.381                                 | -0.56%             | 0.70%          |
|             |                  | 1752.6                   | 40.068                                   | 1.373                               | 39.841                                     | 1.383                                 | -0.57%             | 0.72%          |
|             |                  | 1852.4                   | 40.000                                   | 1.400                               | 39.767                                     | 1.413                                 | -0.58%             | 0.95%          |
|             |                  | 1860                     | 40.000                                   | 1.400                               | 39.767                                     | 1.414                                 | -0.58%             | 0.97%          |
|             |                  | 1880                     | 40.000                                   | 1.400                               | 39.767                                     | 1.414                                 | -0.58%             | 1.01%          |
|             |                  | 1900                     | 40.000                                   | 1.400                               | 39.767                                     | 1.414                                 | -0.58%             | 1.03%          |
|             |                  | 1907.6                   | 40.000                                   | 1.400                               | 39.767                                     | 1.414                                 | -0.58%             | 1.03%          |
|             | Sep, 11. 2022    | 2402                     | 39.282                                   | 1.757                               | 39.052                                     | 1.786                                 | -0.59%             | 1.59%          |
|             |                  | 2412                     | 39.265                                   | 1.766                               | 39.035                                     | 1.794                                 | -0.59%             | 1.57%          |
|             |                  | 2437                     | 39.222                                   | 1.788                               | 38.990                                     | 1.816                                 | -0.59%             | 1.52%          |
|             |                  | 2450                     | 39.200                                   | 1.800                               | 38.967                                     | 1.827                                 | -0.59%             | 1.50%          |
|             |                  | 2462                     | 39.184                                   | 1.813                               | 38.952                                     | 1.838                                 | -0.59%             | 1.38%          |
|             |                  | 2510                     | 39.120                                   | 1.864                               | 38.891                                     | 1.881                                 | -0.59%             | 0.91%          |
|             |                  | 2535                     | 39.087                                   | 1.891                               | 38.859                                     | 1.903                                 | -0.58%             | 0.68%          |
|             |                  | 2560                     | 39.053                                   | 1.917                               | 38.827                                     | 1.926                                 | -0.58%             | 0.46%          |
|             |                  | 2600                     | 39.000                                   | 1.960                               | 38.776                                     | 1.963                                 | -0.57%             | 0.13%          |
|             | Sep, 12. 2022    | 5180                     | 36.020                                   | 4.639                               | 35.776                                     | 4.633                                 | -0.68%             | -0.13%         |
|             |                  | 5200                     | 36.000                                   | 4.660                               | 35.753                                     | 4.654                                 | -0.69%             | -0.14%         |
|             |                  | 5220                     | 35.980                                   | 4.680                               | 35.730                                     | 4.674                                 | -0.70%             | -0.13%         |
|             |                  | 5240                     | 35.960                                   | 4.700                               | 35.707                                     | 4.695                                 | -0.70%             | -0.12%         |
|             |                  | 5250                     | 35.950                                   | 4.710                               | 35.696                                     | 4.705                                 | -0.71%             | -0.11%         |
|             |                  | 5745                     | 35.355                                   | 5.215                               | 35.130                                     | 5.213                                 | -0.64%             | -0.05%         |
|             |                  | 5750                     | 35.350                                   | 5.220                               | 35.124                                     | 5.218                                 | -0.64%             | -0.04%         |
|             |                  | 5785                     | 35.315                                   | 5.255                               | 35.084                                     | 5.254                                 | -0.65%             | -0.03%         |
|             |                  | 5825                     | 35.275                                   | 5.296                               | 35.038                                     | 5.295                                 | -0.67%             | -0.03%         |

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### 3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

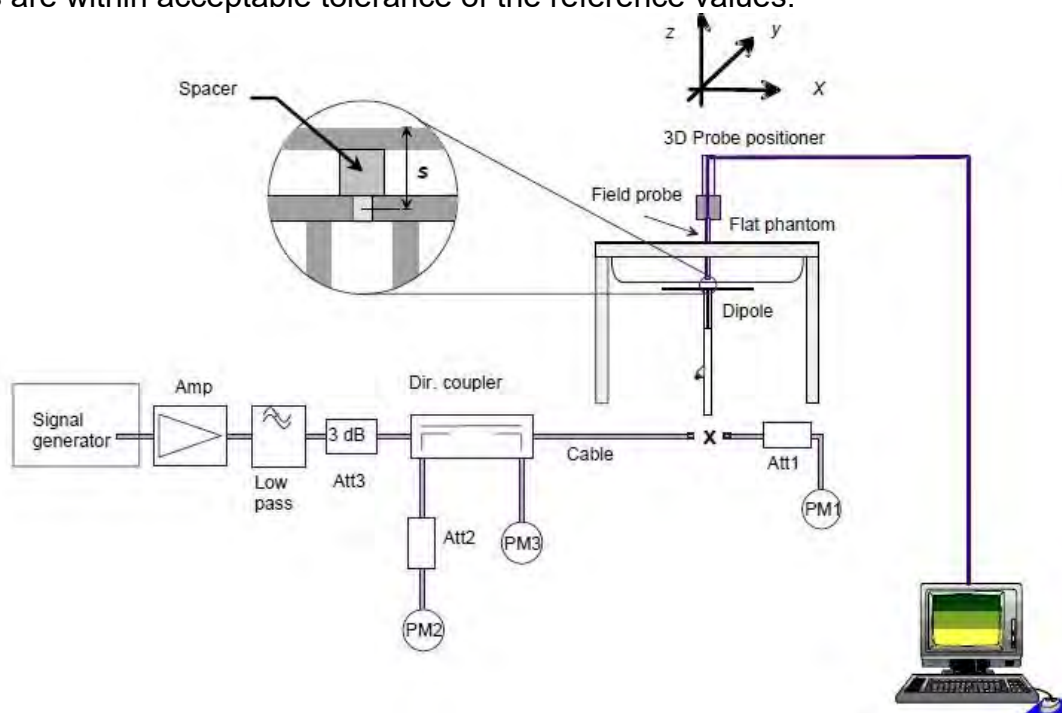
| Broad-band head tissue simulating liquids | SPEAG Product   | Frequency range (MHz) | Main Ingredients |
|-------------------------------------------|-----------------|-----------------------|------------------|
|                                           | HBBL600-10000V6 | 600 - 10000           | Water, Oil       |

### 3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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### 3.6 System check results

| Validation Kit | S/N   | Frequency (MHz) | 1W Target 1g-SAR (W/kg) | pin=250mW Measured 1g-SAR (W/kg) | Normalized to 1W 1g-SAR (W/kg) | Deviation (%) | Limit | Measurement Date |
|----------------|-------|-----------------|-------------------------|----------------------------------|--------------------------------|---------------|-------|------------------|
| D750V3         | 1015  | 750             | 8.51                    | 2.15                             | 8.6                            | 1.06          | ± 10% | Sep.09,2022      |
| D835V2         | 4d063 | 835             | 9.64                    | 2.35                             | 9.4                            | -2.49         | ± 10% | Sep.09,2022      |
| D1750V2        | 1008  | 1750            | 36.6                    | 8.94                             | 35.76                          | -2.30         | ± 10% | Sep.10,2022      |
| D1900V2        | 5d173 | 1900            | 39.6                    | 10.2                             | 40.8                           | 3.03          | ± 10% | Sep.10,2022      |
| D2450V2        | 727   | 2450            | 52.8                    | 13.4                             | 53.6                           | 1.52          | ± 10% | Sep.11,2022      |
| D2600V2        | 1005  | 2600            | 56.8                    | 14.2                             | 56.8                           | 0.00          | ± 10% | Sep.11,2022      |
| Validation Kit | S/N   | Frequency (MHz) | 1W Target 1g-SAR (W/kg) | pin=100mW Measured 1g-SAR (W/kg) | Normalized to 1W 1g-SAR (W/kg) | Deviation (%) | Limit | Measurement Date |
| D5GHzV2        | 1023  | 5250            | 81                      | 8.25                             | 82.5                           | 1.85          | ± 10% | Sep.12,2022      |
| D5GHzV2        | 1023  | 5750            | 81                      | 8                                | 80                             | -1.23         | ± 10% | Sep.12,2022      |

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## 4 TEST CONFIGURATIONS

### 4.1 Test Environment

Ambient Temperature:  $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid:  $22 \pm 2^\circ \text{C}$

### 4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is  $\leq 0.8 \text{ W/kg}$ , when the transmission band is  $\leq 100 \text{ MHz}$ .
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is  $\geq 0.8 \text{ W/kg}$ , repeated that measurement once. 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  $\geq 1.45 \text{ W/kg}$  ( $\sim 10\%$  from the 1-g SAR limit).
- **UMTS (HSDPA):** The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is  $\leq \frac{1}{4} \text{ dB}$  higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

| Sub-test | $\beta_c$            | $\beta_a$            | $\beta_a$<br>(SF) | $\beta_c/\beta_a$    | $\beta_{hs}^{(1)}$ | CM (dB) <sup>(2)</sup> |
|----------|----------------------|----------------------|-------------------|----------------------|--------------------|------------------------|
| 1        | 2/15                 | 15/15                | 64                | 2/15                 | 4/15               | 0.0                    |
| 2        | 12/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64                | 12/15 <sup>(3)</sup> | 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                    |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$   
 Note 2: CM = 1 for  $\beta_c/\beta_a = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .  
 Note 3: For subtest 2 the  $\beta_c/\beta_a$  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  $\beta_c = 11/15$  and  $\beta_a = 15/15$ .

- **UMTS (HSPA):** The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is  $\leq \frac{1}{4} \text{ dB}$  higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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| Sub-test | $\beta_c$            | $\beta_d$            | $\beta_d$ (SF) | $\beta_c/\beta_d$    | $\beta_{hs}^{(1)}$ | $\beta_{ec}$ | $\beta_{ed}$                                 | $\beta_{ed}$ (SF) | $\beta_{ed}$ (codes) | CM <sup>(2)</sup> (dB) | MPR (dB) | AG <sup>(4)</sup> Index | E-TFCI |
|----------|----------------------|----------------------|----------------|----------------------|--------------------|--------------|----------------------------------------------|-------------------|----------------------|------------------------|----------|-------------------------|--------|
| 1        | 11/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64             | 11/15 <sup>(3)</sup> | 22/15              | 209/225      | 1039/225                                     | 4                 | 1                    | 1.0                    | 0.0      | 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        | $\beta_{ed1}: 47/15$<br>$\beta_{ed2}: 47/15$ | 4                 | 2                    | 2.0                    | 1.0      | 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 <sup>(4)</sup> | 15/15 <sup>(4)</sup> | 64             | 15/15 <sup>(4)</sup> | 30/15              | 24/15        | 134/15                                       | 4                 | 1                    | 1.0                    | 0.0      | 21                      | 81     |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  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  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: For subtest 5 the  $\beta_c/\beta_d$  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  $\beta_c = 14/15$  and  $\beta_d = 15/15$ .

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6:  $\beta_{ed}$  cannot be set directly; it is set by Absolute Grant Value.

• **UMTS (HSPA+):** The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM<sup>(1)</sup>

| Sub-test <sup>(1)</sup> | $\beta_c^{(2)}$ (Note 3) <sup>(1)</sup> | $\beta_d^{(2)}$  | $\beta_{hs}^{(2)}$ (Note 1) <sup>(1)</sup> | $\beta_{ec}^{(2)}$   | $\beta_{ed}^{(2)}$ (2xSF2) <sup>(1)</sup> (Note 4) <sup>(1)</sup> | $\beta_{ed}^{(2)}$ (2xSF4) <sup>(1)</sup> (Note 4) <sup>(1)</sup> | CM <sup>(2)</sup> (dB) <sup>(1)</sup> (Note 2) <sup>(1)</sup> | MPR <sup>(2)</sup> (dB) <sup>(1)</sup> (Note 2) <sup>(1)</sup> | AG <sup>(2)</sup> Index <sup>(1)</sup> (Note 4) <sup>(1)</sup> | E-TFCI <sup>(2)</sup> (Note 5) <sup>(1)</sup> | E-TFCI <sup>(2)</sup> (boost) <sup>(1)</sup> |
|-------------------------|-----------------------------------------|------------------|--------------------------------------------|----------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|
| 1 <sup>(2)</sup>        | 1 <sup>(2)</sup>                        | 0 <sup>(2)</sup> | 30/15 <sup>(2)</sup>                       | 30/15 <sup>(2)</sup> | $\beta_{ed1}: 30/15^{(2)}$<br>$\beta_{ed2}: 30/15^{(2)}$          | $\beta_{ed3}: 24/15^{(2)}$<br>$\beta_{ed4}: 24/15^{(2)}$          | 3.5 <sup>(2)</sup>                                            | 2.5 <sup>(2)</sup>                                             | 14 <sup>(2)</sup>                                              | 105 <sup>(2)</sup>                            | 105 <sup>(2)</sup>                           |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .

Note 2: CM = 3.5 and the MPR is based on the relative CM difference,  $MPR = \text{MAX}(CM-1, 0)$ .

Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_d = 0$  by default.

Note 4:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

• **UMTS (DC-HSDPA):** The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is  $\leq 1/4$  dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

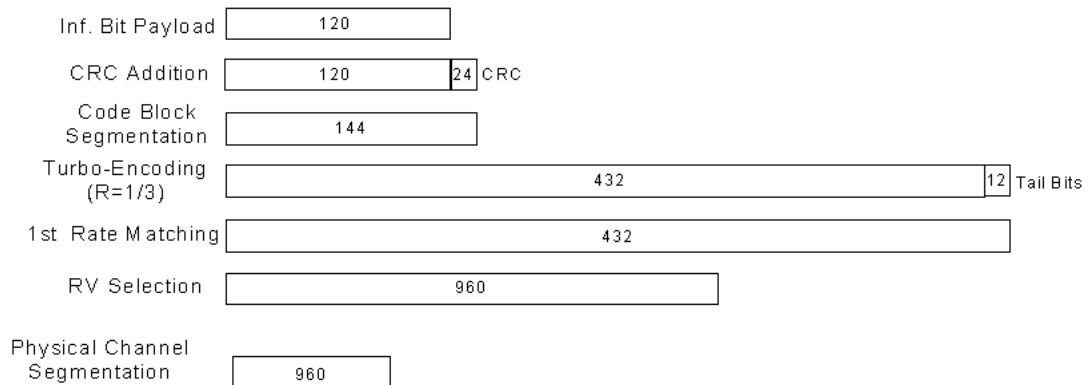
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Table C.8.1.12: Fixed Reference Channel H-Set 12<sup>1</sup>

| Parameter <sup>2</sup>                                                                                                                                                                                                                                                                                                       | Unit <sup>2</sup>      | Value <sup>2</sup> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| ▪ Nominal Avg. Inf. Bit Rate <sup>2</sup>                                                                                                                                                                                                                                                                                    | kbps <sup>2</sup>      | 60 <sup>2</sup>    |
| ▪ Inter-TTI Distance <sup>2</sup>                                                                                                                                                                                                                                                                                            | TTI's <sup>2</sup>     | 1 <sup>2</sup>     |
| ▪ Number of HARQ Processes <sup>2</sup>                                                                                                                                                                                                                                                                                      | Processes <sup>2</sup> | 6 <sup>2</sup>     |
| ▪ Information Bit Payload ( $N_{INF}$ ) <sup>2</sup>                                                                                                                                                                                                                                                                         | Bits <sup>2</sup>      | 120 <sup>2</sup>   |
| ▪ Number Code Blocks <sup>2</sup>                                                                                                                                                                                                                                                                                            | Blocks <sup>2</sup>    | 1 <sup>2</sup>     |
| ▪ Binary Channel Bits Per TTI <sup>2</sup>                                                                                                                                                                                                                                                                                   | Bits <sup>2</sup>      | 960 <sup>2</sup>   |
| ▪ Total Available SML's in UE <sup>2</sup>                                                                                                                                                                                                                                                                                   | SML's <sup>2</sup>     | 19200 <sup>2</sup> |
| ▪ Number of SML's per HARQ Proc. <sup>2</sup>                                                                                                                                                                                                                                                                                | SML's <sup>2</sup>     | 3200 <sup>2</sup>  |
| ▪ Coding Rate <sup>2</sup>                                                                                                                                                                                                                                                                                                   |                        | 0.15 <sup>2</sup>  |
| ▪ Number of Physical Channel Codes <sup>2</sup>                                                                                                                                                                                                                                                                              | Codes <sup>2</sup>     | 1 <sup>2</sup>     |
| ▪ Modulation <sup>2</sup>                                                                                                                                                                                                                                                                                                    |                        | QPSK <sup>2</sup>  |
| Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table. <sup>2</sup><br>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. <sup>2</sup> |                        |                    |

Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)<sup>2</sup>

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

| Sub-test | $\beta_c$            | $\beta_a$            | $\beta_a$<br>(SF) | $\beta_c/\beta_a$    | $\beta_{hs}^{(1)}$ | CM (dB) <sup>(2)</sup> |
|----------|----------------------|----------------------|-------------------|----------------------|--------------------|------------------------|
| 1        | 2/15                 | 15/15                | 64                | 2/15                 | 4/15               | 0.0                    |
| 2        | 12/15 <sup>(3)</sup> | 15/15 <sup>(3)</sup> | 64                | 12/15 <sup>(3)</sup> | 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                    |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$   
 Note 2: CM = 1 for  $\beta_c/\beta_a = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ .  
 Note 3: For subtest 2 the  $\beta_c/\beta_a$  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  $\beta_c = 11/15$  and  $\beta_a = 15/15$ .

• **LTE: LTE modes test according to KDB 941225D05v02r05.**

- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

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- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
- When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.
- b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
  - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
  - For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg.
  - Otherwise, SAR is measured for the highest output power channel and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
  - For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
  - For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is  $> \frac{1}{2}$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the

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reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

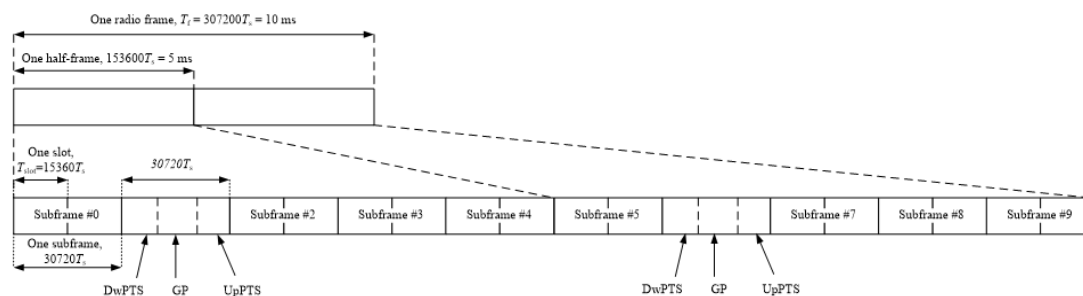


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

| Special subframe configuration $n$ | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|------------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                    | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                    |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                                  | $6592 \cdot T_s$                 | $(1+X) \cdot 2192 \cdot T_s$   | $(1+X) \cdot 2560 \cdot T_s$     | $7680 \cdot T_s$                   | $(1+X) \cdot 2192 \cdot T_s$   | $(1+X) \cdot 2560 \cdot T_s$     |
| 1                                  | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                                  | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                                  | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                                  | $26336 \cdot T_s$                |                                |                                  | $7680 \cdot T_s$                   |                                |                                  |
| 5                                  | $6592 \cdot T_s$                 | $(2+X) \cdot 2192 \cdot T_s$   | $(2+X) \cdot 2560 \cdot T_s$     | $20480 \cdot T_s$                  | $(2+X) \cdot 2192 \cdot T_s$   | $(2+X) \cdot 2560 \cdot T_s$     |
| 6                                  | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                                  | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                                  | $24144 \cdot T_s$                |                                |                                  | —                                  | —                              | —                                |
| 9                                  | $13168 \cdot T_s$                |                                |                                  | —                                  | —                              | —                                |

Table 4.2-2: Uplink-downlink configurations

| Uplink-downlink configuration <sup>o</sup> | Downlink-to-Uplink Switch-point periodicity <sup>o</sup> | Subframe number <sup>o</sup> |                |                |                |                |                |                |                |                |                |
|--------------------------------------------|----------------------------------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                            |                                                          | 0 <sup>o</sup>               | 1 <sup>o</sup> | 2 <sup>o</sup> | 3 <sup>o</sup> | 4 <sup>o</sup> | 5 <sup>o</sup> | 6 <sup>o</sup> | 7 <sup>o</sup> | 8 <sup>o</sup> | 9 <sup>o</sup> |
| 0 <sup>o</sup>                             | 5 ms <sup>o</sup>                                        | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> |
| 1 <sup>o</sup>                             | 5 ms <sup>o</sup>                                        | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> |
| 2 <sup>o</sup>                             | 5 ms <sup>o</sup>                                        | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | S <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> |
| 3 <sup>o</sup>                             | 10 ms <sup>o</sup>                                       | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> |
| 4 <sup>o</sup>                             | 10 ms <sup>o</sup>                                       | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> |
| 5 <sup>o</sup>                             | 10 ms <sup>o</sup>                                       | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> | D <sup>o</sup> |
| 6 <sup>o</sup>                             | 5 ms <sup>o</sup>                                        | D <sup>o</sup>               | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> | S <sup>o</sup> | U <sup>o</sup> | U <sup>o</sup> | D <sup>o</sup> |

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

• **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

• **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.

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- **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is  $> 0.8 \text{ W/kg}$ , SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is  $\leq 1.2 \text{ W/kg}$  or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2 \text{ W/kg}$ , SAR is not required for subsequent test configuration.

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### 4.3 Test position

#### Body SAR test position (5mm)

Body SAR is measured for all surfaces/edges with test separation distance 5mm.

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#### 4.4 Test limit

##### § 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

##### § 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

##### § 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

##### § 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency

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Electromagnetic Fields,” NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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| Frequency range (MHz)                                    | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) Limits for Occupational/Controlled Exposure          |                               |                               |                                     |                          |
| 0.3-3.0                                                  | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0-30                                                   | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30-300                                                   | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300-1,500                                                |                               |                               | f/300                               | <6                       |
| 1,500-100,000                                            |                               |                               | 5                                   | <6                       |
| (ii) Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
| 0.3-1.34                                                 | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34-30                                                  | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30-300                                                   | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300-1,500                                                |                               |                               | f/1500                              | <30                      |
| 1,500-100,000                                            |                               |                               | 1.0                                 | <30                      |

f = frequency in MHz. \* = Plane-wave equivalent power density.

Table 1 to [§ 1.1310\(e\)\(1\)](#) - Limits for Maximum Permissible Exposure (MPE)

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## 5 MAXIMUM OUTPUT POWER

### 5.1 WCDMA

| Band                                       |                    | WCDMA II |        |        |
|--------------------------------------------|--------------------|----------|--------|--------|
| TX Channel                                 |                    | 9262     | 9400   | 9538   |
| Frequency (MHz)                            |                    | 1852.4   | 1880   | 1907.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                    | 24.00    |        |        |
| 3GPP Rel 99                                | RMC 12.2Kbps       | 23.61    | 23.77  | 23.87  |
| 3GPP Rel 5                                 | HSDPA Subtest-1    | 23.24    | 23.41  | 23.46  |
|                                            | HSDPA Subtest-2    | 23.21    | 23.50  | 23.49  |
|                                            | HSDPA Subtest-3    | 22.94    | 22.74  | 22.85  |
|                                            | HSDPA Subtest-4    | 22.90    | 22.90  | 22.93  |
| 3GPP Rel 6                                 | HSUPA Subtest-1    | 23.32    | 23.38  | 23.35  |
|                                            | HSUPA Subtest-2    | 21.50    | 21.35  | 21.55  |
|                                            | HSUPA Subtest-3    | 22.31    | 22.49  | 22.37  |
|                                            | HSUPA Subtest-4    | 21.12    | 21.19  | 21.32  |
|                                            | HSUPA Subtest-5    | 23.18    | 23.42  | 23.44  |
| 3GPP Rel 8                                 | DC-HSDPA Subtest-1 | 23.29    | 23.48  | 23.50  |
|                                            | DC-HSDPA Subtest-2 | 23.16    | 23.50  | 23.37  |
|                                            | DC-HSDPA Subtest-3 | 22.69    | 22.96  | 22.81  |
|                                            | DC-HSDPA Subtest-4 | 22.69    | 22.88  | 22.96  |
| Band                                       |                    | WCDMA IV |        |        |
| TX Channel                                 |                    | 1312     | 1413   | 1513   |
| Frequency (MHz)                            |                    | 1712.4   | 1732.6 | 1752.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                    | 23.00    |        |        |
| 3GPP Rel 99                                | RMC 12.2Kbps       | 22.78    | 22.89  | 22.84  |
| 3GPP Rel 5                                 | HSDPA Subtest-1    | 22.64    | 22.64  | 22.63  |
|                                            | HSDPA Subtest-2    | 22.59    | 22.61  | 22.63  |
|                                            | HSDPA Subtest-3    | 22.22    | 22.22  | 22.20  |
|                                            | HSDPA Subtest-4    | 22.28    | 22.27  | 22.29  |
| 3GPP Rel 6                                 | HSUPA Subtest-1    | 22.77    | 22.76  | 22.75  |
|                                            | HSUPA Subtest-2    | 21.90    | 22.00  | 21.80  |
|                                            | HSUPA Subtest-3    | 22.59    | 22.65  | 22.65  |
|                                            | HSUPA Subtest-4    | 21.78    | 21.99  | 21.88  |
|                                            | HSUPA Subtest-5    | 22.29    | 22.19  | 22.29  |
| 3GPP Rel 8                                 | DC-HSDPA Subtest-1 | 22.81    | 22.84  | 22.86  |
|                                            | DC-HSDPA Subtest-2 | 22.51    | 22.76  | 22.73  |
|                                            | DC-HSDPA Subtest-3 | 22.67    | 22.63  | 22.59  |
|                                            | DC-HSDPA Subtest-4 | 22.72    | 22.74  | 22.73  |

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| Band                                       |                    | WCDMA V |       |       |
|--------------------------------------------|--------------------|---------|-------|-------|
| TX Channel                                 |                    | 4132    | 4183  | 4233  |
| Frequency (MHz)                            |                    | 826.4   | 836.6 | 846.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) |                    | 24.00   |       |       |
| 3GPP Rel 99                                | RMC 12.2Kbps       | 23.68   | 23.65 | 23.64 |
| 3GPP Rel 5                                 | HSDPA Subtest-1    | 23.41   | 23.28 | 23.35 |
|                                            | HSDPA Subtest-2    | 23.26   | 23.39 | 23.26 |
|                                            | HSDPA Subtest-3    | 22.93   | 22.81 | 22.93 |
|                                            | HSDPA Subtest-4    | 22.96   | 23.00 | 22.88 |
| 3GPP Rel 6                                 | HSUPA Subtest-1    | 23.29   | 23.29 | 23.22 |
|                                            | HSUPA Subtest-2    | 21.47   | 21.31 | 21.22 |
|                                            | HSUPA Subtest-3    | 22.46   | 22.39 | 22.38 |
|                                            | HSUPA Subtest-4    | 21.10   | 21.10 | 21.06 |
|                                            | HSUPA Subtest-5    | 23.43   | 23.36 | 23.31 |
| 3GPP Rel 8                                 | DC-HSDPA Subtest-1 | 23.34   | 23.34 | 23.26 |
|                                            | DC-HSDPA Subtest-2 | 23.39   | 23.35 | 23.19 |
|                                            | DC-HSDPA Subtest-3 | 22.75   | 22.84 | 22.84 |
|                                            | DC-HSDPA Subtest-4 | 22.87   | 22.80 | 22.87 |

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## 5.2 FDD LTE

| LTE Band 2      |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1860                  | 1880  | 1900  |                                     |                          |
| Channel         |            |         |           | 18700                 | 18900 | 19100 |                                     |                          |
| 20              | QPSK       | 1       | 0         | 22.42                 | 22.45 | 22.47 | 23.00                               | 0                        |
|                 |            | 1       | 50        | 22.39                 | 22.36 | 22.43 | 23.00                               | 0                        |
|                 |            | 1       | 99        | 22.42                 | 22.39 | 22.46 | 23.00                               | 0                        |
|                 |            | 50      | 0         | 21.43                 | 21.42 | 21.42 | 22.00                               | 1                        |
|                 |            | 50      | 25        | 21.41                 | 21.38 | 21.43 | 22.00                               | 1                        |
|                 |            | 50      | 50        | 21.41                 | 21.44 | 21.38 | 22.00                               | 1                        |
|                 |            | 100     | 0         | 21.47                 | 21.40 | 21.39 | 22.00                               | 1                        |
| 20              | 16-QAM     | 1       | 0         | 21.41                 | 21.40 | 21.45 | 22.00                               | 1                        |
|                 |            | 1       | 50        | 21.39                 | 21.44 | 21.46 | 22.00                               | 1                        |
|                 |            | 1       | 99        | 21.45                 | 21.42 | 21.44 | 22.00                               | 1                        |
|                 |            | 50      | 0         | 20.45                 | 20.38 | 20.45 | 21.00                               | 2                        |
|                 |            | 50      | 25        | 20.40                 | 20.38 | 20.40 | 21.00                               | 2                        |
|                 |            | 50      | 50        | 20.46                 | 20.41 | 20.47 | 21.00                               | 2                        |
|                 |            | 100     | 0         | 20.45                 | 20.46 | 20.38 | 21.00                               | 2                        |
| 20              | 64-QAM     | 1       | 0         | 20.44                 | 20.43 | 20.44 | 21.00                               | 2                        |
|                 |            | 1       | 50        | 20.43                 | 20.43 | 20.38 | 21.00                               | 2                        |
|                 |            | 1       | 99        | 20.46                 | 20.37 | 20.38 | 21.00                               | 2                        |
|                 |            | 50      | 0         | 19.38                 | 19.44 | 19.44 | 20.00                               | 3                        |
|                 |            | 50      | 25        | 19.42                 | 19.39 | 19.43 | 20.00                               | 3                        |
|                 |            | 50      | 50        | 19.44                 | 19.44 | 19.39 | 20.00                               | 3                        |
|                 |            | 100     | 0         | 19.46                 | 19.47 | 19.39 | 20.00                               | 3                        |

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| LTE Band 2      |            |         |           |                       |       |        |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880  | 1902.5 |                                     |                          |
| Channel         |            |         |           | 18675                 | 18900 | 19125  |                                     |                          |
| 15              | QPSK       | 1       | 0         | 22.42                 | 22.38 | 22.43  | 23.00                               | 0                        |
|                 |            | 1       | 36        | 22.44                 | 22.40 | 22.42  | 23.00                               | 0                        |
|                 |            | 1       | 74        | 22.44                 | 22.46 | 22.37  | 23.00                               | 0                        |
|                 |            | 36      | 0         | 21.39                 | 21.40 | 21.39  | 22.00                               | 1                        |
|                 |            | 36      | 18        | 21.46                 | 21.43 | 21.43  | 22.00                               | 1                        |
|                 |            | 36      | 37        | 21.42                 | 21.38 | 21.44  | 22.00                               | 1                        |
|                 |            | 75      | 0         | 21.39                 | 21.38 | 21.41  | 22.00                               | 1                        |
| 15              | 16-QAM     | 1       | 0         | 21.41                 | 21.44 | 21.44  | 22.00                               | 1                        |
|                 |            | 1       | 36        | 21.44                 | 21.38 | 21.41  | 22.00                               | 1                        |
|                 |            | 1       | 74        | 21.40                 | 21.45 | 21.39  | 22.00                               | 1                        |
|                 |            | 36      | 0         | 20.44                 | 20.38 | 20.42  | 21.00                               | 2                        |
|                 |            | 36      | 18        | 20.38                 | 20.41 | 20.39  | 21.00                               | 2                        |
|                 |            | 36      | 37        | 20.41                 | 20.43 | 20.39  | 21.00                               | 2                        |
|                 |            | 75      | 0         | 20.45                 | 20.40 | 20.40  | 21.00                               | 2                        |
| 15              | 64-QAM     | 1       | 0         | 20.44                 | 20.37 | 20.41  | 21.00                               | 2                        |
|                 |            | 1       | 36        | 20.42                 | 20.47 | 20.40  | 21.00                               | 2                        |
|                 |            | 1       | 74        | 20.42                 | 20.37 | 20.39  | 21.00                               | 2                        |
|                 |            | 36      | 0         | 19.39                 | 19.38 | 19.38  | 20.00                               | 3                        |
|                 |            | 36      | 18        | 19.38                 | 19.46 | 19.38  | 20.00                               | 3                        |
|                 |            | 36      | 37        | 19.46                 | 19.38 | 19.44  | 20.00                               | 3                        |
|                 |            | 75      | 0         | 19.41                 | 19.46 | 19.41  | 20.00                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1880  | 1905  |                                     |                          |
| Channel         |            |         |           | 18650                 | 18900 | 19150 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 22.40                 | 22.39 | 22.45 | 23.00                               | 0                        |
|                 |            | 1       | 25        | 22.39                 | 22.44 | 22.43 | 23.00                               | 0                        |
|                 |            | 1       | 49        | 22.46                 | 22.41 | 22.42 | 23.00                               | 0                        |
|                 |            | 25      | 0         | 21.42                 | 21.45 | 21.40 | 22.00                               | 1                        |
|                 |            | 25      | 12        | 21.43                 | 21.41 | 21.44 | 22.00                               | 1                        |
|                 |            | 25      | 25        | 21.41                 | 21.42 | 21.40 | 22.00                               | 1                        |
|                 |            | 50      | 0         | 21.44                 | 21.45 | 21.46 | 22.00                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 21.42                 | 21.41 | 21.47 | 22.00                               | 1                        |
|                 |            | 1       | 25        | 21.38                 | 21.45 | 21.46 | 22.00                               | 1                        |
|                 |            | 1       | 49        | 21.38                 | 21.45 | 21.41 | 22.00                               | 1                        |
|                 |            | 25      | 0         | 20.41                 | 20.43 | 20.39 | 21.00                               | 2                        |
|                 |            | 25      | 12        | 20.45                 | 20.37 | 20.45 | 21.00                               | 2                        |
|                 |            | 25      | 25        | 20.41                 | 20.47 | 20.43 | 21.00                               | 2                        |
|                 |            | 50      | 0         | 20.47                 | 20.43 | 20.39 | 21.00                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 20.41                 | 20.40 | 20.42 | 21.00                               | 2                        |
|                 |            | 1       | 25        | 20.43                 | 20.39 | 20.47 | 21.00                               | 2                        |
|                 |            | 1       | 49        | 20.47                 | 20.37 | 20.44 | 21.00                               | 2                        |
|                 |            | 25      | 0         | 19.39                 | 19.43 | 19.46 | 20.00                               | 3                        |
|                 |            | 25      | 12        | 19.45                 | 19.40 | 19.37 | 20.00                               | 3                        |
|                 |            | 25      | 25        | 19.40                 | 19.37 | 19.37 | 20.00                               | 3                        |
|                 |            | 50      | 0         | 19.46                 | 19.43 | 19.42 | 20.00                               | 3                        |

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| LTE Band 2      |            |         |           |                       |       |        |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880  | 1907.5 |                                     |                          |
| Channel         |            |         |           | 18625                 | 18900 | 19175  |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.39                 | 22.41 | 22.40  | 23.00                               | 0                        |
|                 |            | 1       | 12        | 22.42                 | 22.43 | 22.42  | 23.00                               | 0                        |
|                 |            | 1       | 24        | 22.42                 | 22.38 | 22.46  | 23.00                               | 0                        |
|                 |            | 12      | 0         | 21.42                 | 21.42 | 21.40  | 22.00                               | 1                        |
|                 |            | 12      | 6         | 21.47                 | 21.43 | 21.38  | 22.00                               | 1                        |
|                 |            | 12      | 13        | 21.44                 | 21.39 | 21.46  | 22.00                               | 1                        |
|                 |            | 25      | 0         | 21.42                 | 21.41 | 21.44  | 22.00                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 21.39                 | 21.42 | 21.41  | 22.00                               | 1                        |
|                 |            | 1       | 12        | 21.47                 | 21.47 | 21.45  | 22.00                               | 1                        |
|                 |            | 1       | 24        | 21.47                 | 21.38 | 21.40  | 22.00                               | 1                        |
|                 |            | 12      | 0         | 20.40                 | 20.46 | 20.42  | 21.00                               | 2                        |
|                 |            | 12      | 6         | 20.38                 | 20.37 | 20.43  | 21.00                               | 2                        |
|                 |            | 12      | 13        | 20.47                 | 20.37 | 20.46  | 21.00                               | 2                        |
|                 |            | 25      | 0         | 20.43                 | 20.41 | 20.43  | 21.00                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 20.47                 | 20.41 | 20.44  | 21.00                               | 2                        |
|                 |            | 1       | 12        | 20.40                 | 20.46 | 20.41  | 21.00                               | 2                        |
|                 |            | 1       | 24        | 20.44                 | 20.38 | 20.40  | 21.00                               | 2                        |
|                 |            | 12      | 0         | 19.40                 | 19.42 | 19.42  | 20.00                               | 3                        |
|                 |            | 12      | 6         | 19.37                 | 19.37 | 19.45  | 20.00                               | 3                        |
|                 |            | 12      | 13        | 19.39                 | 19.43 | 19.42  | 20.00                               | 3                        |
|                 |            | 25      | 0         | 19.41                 | 19.44 | 19.41  | 20.00                               | 3                        |

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| LTE Band 2      |            |         |           |                       |       |        |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1851.5                | 1880  | 1908.5 |                                     |                          |
| Channel         |            |         |           | 18615                 | 18900 | 19185  |                                     |                          |
| 3               | QPSK       | 1       | 0         | 22.42                 | 22.38 | 22.44  | 23.00                               | 0                        |
|                 |            | 1       | 7         | 22.44                 | 22.43 | 22.44  | 23.00                               | 0                        |
|                 |            | 1       | 14        | 22.41                 | 22.39 | 22.44  | 23.00                               | 0                        |
|                 |            | 8       | 0         | 21.40                 | 21.46 | 21.40  | 22.00                               | 1                        |
|                 |            | 8       | 4         | 21.43                 | 21.40 | 21.46  | 22.00                               | 1                        |
|                 |            | 8       | 7         | 21.44                 | 21.45 | 21.45  | 22.00                               | 1                        |
|                 |            | 15      | 0         | 21.41                 | 21.44 | 21.43  | 22.00                               | 1                        |
| 3               | 16-QAM     | 1       | 0         | 21.41                 | 21.43 | 21.47  | 22.00                               | 1                        |
|                 |            | 1       | 7         | 21.42                 | 21.45 | 21.45  | 22.00                               | 1                        |
|                 |            | 1       | 14        | 21.38                 | 21.37 | 21.40  | 22.00                               | 1                        |
|                 |            | 8       | 0         | 20.40                 | 20.39 | 20.38  | 21.00                               | 2                        |
|                 |            | 8       | 4         | 20.47                 | 20.42 | 20.46  | 21.00                               | 2                        |
|                 |            | 8       | 7         | 20.45                 | 20.44 | 20.42  | 21.00                               | 2                        |
|                 |            | 15      | 0         | 20.45                 | 20.43 | 20.40  | 21.00                               | 2                        |
| 3               | 64-QAM     | 1       | 0         | 20.41                 | 20.41 | 20.37  | 21.00                               | 2                        |
|                 |            | 1       | 7         | 20.37                 | 20.38 | 20.37  | 21.00                               | 2                        |
|                 |            | 1       | 14        | 20.39                 | 20.47 | 20.41  | 21.00                               | 2                        |
|                 |            | 8       | 0         | 19.42                 | 19.43 | 19.44  | 20.00                               | 3                        |
|                 |            | 8       | 4         | 19.46                 | 19.47 | 19.40  | 20.00                               | 3                        |
|                 |            | 8       | 7         | 19.46                 | 19.41 | 19.39  | 20.00                               | 3                        |
|                 |            | 15      | 0         | 19.40                 | 19.45 | 19.40  | 20.00                               | 3                        |

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| LTE Band 2      |            |         |           |                       |       |        |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1850.7                | 1880  | 1909.3 |                                     |                          |
| Channel         |            |         |           | 18607                 | 18900 | 19193  |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 22.45                 | 22.38 | 22.42  | 23.00                               | 0                        |
|                 |            | 1       | 2         | 22.38                 | 22.35 | 22.45  | 23.00                               | 0                        |
|                 |            | 1       | 5         | 22.40                 | 22.38 | 22.42  | 23.00                               | 0                        |
|                 |            | 3       | 0         | 21.40                 | 21.39 | 21.44  | 23.00                               | 0                        |
|                 |            | 3       | 2         | 21.46                 | 21.46 | 21.45  | 23.00                               | 0                        |
|                 |            | 3       | 3         | 21.45                 | 21.43 | 21.43  | 23.00                               | 0                        |
|                 |            | 6       | 0         | 21.45                 | 21.39 | 21.43  | 22.00                               | 1                        |
| 1.4             | 16-QAM     | 1       | 0         | 21.46                 | 21.40 | 21.46  | 22.00                               | 1                        |
|                 |            | 1       | 2         | 21.39                 | 21.43 | 21.44  | 22.00                               | 1                        |
|                 |            | 1       | 5         | 21.39                 | 21.47 | 21.40  | 22.00                               | 1                        |
|                 |            | 3       | 0         | 20.38                 | 20.45 | 20.38  | 22.00                               | 1                        |
|                 |            | 3       | 2         | 20.46                 | 20.40 | 20.40  | 22.00                               | 1                        |
|                 |            | 3       | 3         | 20.46                 | 20.43 | 20.42  | 22.00                               | 1                        |
|                 |            | 6       | 0         | 20.37                 | 20.39 | 20.47  | 21.00                               | 2                        |
| 1.4             | 64-QAM     | 1       | 0         | 20.41                 | 20.41 | 20.43  | 21.00                               | 2                        |
|                 |            | 1       | 2         | 20.39                 | 20.42 | 20.38  | 21.00                               | 2                        |
|                 |            | 1       | 5         | 20.39                 | 20.43 | 20.40  | 21.00                               | 2                        |
|                 |            | 3       | 0         | 19.45                 | 19.44 | 19.47  | 21.00                               | 2                        |
|                 |            | 3       | 2         | 19.39                 | 19.47 | 19.44  | 21.00                               | 2                        |
|                 |            | 3       | 3         | 19.44                 | 19.40 | 19.39  | 21.00                               | 2                        |
|                 |            | 6       | 0         | 19.47                 | 19.37 | 19.47  | 20.00                               | 3                        |

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| LTE Band 4      |            |         |           |                       |        |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|--------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1720                  | 1732.5 | 1745  |                                     |                          |
| Channel         |            |         |           | 20050                 | 20175  | 20300 |                                     |                          |
| 20              | QPSK       | 1       | 0         | 22.49                 | 22.60  | 22.52 | 23.00                               | 0                        |
|                 |            | 1       | 50        | 22.42                 | 22.54  | 22.52 | 23.00                               | 0                        |
|                 |            | 1       | 99        | 22.43                 | 22.56  | 22.56 | 23.00                               | 0                        |
|                 |            | 50      | 0         | 21.45                 | 21.49  | 21.49 | 22.00                               | 1                        |
|                 |            | 50      | 25        | 21.43                 | 21.40  | 21.47 | 22.00                               | 1                        |
|                 |            | 50      | 50        | 21.40                 | 21.48  | 21.42 | 22.00                               | 1                        |
|                 |            | 100     | 0         | 21.43                 | 21.49  | 21.48 | 22.00                               | 1                        |
| 20              | 16-QAM     | 1       | 0         | 21.42                 | 21.43  | 21.40 | 22.00                               | 1                        |
|                 |            | 1       | 50        | 21.42                 | 21.44  | 21.41 | 22.00                               | 1                        |
|                 |            | 1       | 99        | 21.50                 | 21.45  | 21.41 | 22.00                               | 1                        |
|                 |            | 50      | 0         | 20.43                 | 20.48  | 20.43 | 21.00                               | 2                        |
|                 |            | 50      | 25        | 20.43                 | 20.47  | 20.45 | 21.00                               | 2                        |
|                 |            | 50      | 50        | 20.48                 | 20.50  | 20.48 | 21.00                               | 2                        |
|                 |            | 100     | 0         | 20.40                 | 20.48  | 20.42 | 21.00                               | 2                        |
| 20              | 64-QAM     | 1       | 0         | 20.44                 | 20.48  | 20.42 | 21.00                               | 2                        |
|                 |            | 1       | 50        | 20.45                 | 20.48  | 20.44 | 21.00                               | 2                        |
|                 |            | 1       | 99        | 20.42                 | 20.50  | 20.45 | 21.00                               | 2                        |
|                 |            | 50      | 0         | 19.40                 | 19.41  | 19.47 | 20.00                               | 3                        |
|                 |            | 50      | 25        | 19.47                 | 19.43  | 19.50 | 20.00                               | 3                        |
|                 |            | 50      | 50        | 19.42                 | 19.43  | 19.44 | 20.00                               | 3                        |
|                 |            | 100     | 0         | 19.45                 | 19.41  | 19.45 | 20.00                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1717.5                | 1732.5 | 1747.5 |                                     |                          |
| Channel         |            |         |           | 20025                 | 20175  | 20325  |                                     |                          |
| 15              | QPSK       | 1       | 0         | 22.41                 | 22.59  | 22.52  | 23.00                               | 0                        |
|                 |            | 1       | 36        | 22.48                 | 22.60  | 22.55  | 23.00                               | 0                        |
|                 |            | 1       | 74        | 22.48                 | 22.53  | 22.53  | 23.00                               | 0                        |
|                 |            | 36      | 0         | 21.42                 | 21.40  | 21.50  | 22.00                               | 1                        |
|                 |            | 36      | 18        | 21.49                 | 21.40  | 21.40  | 22.00                               | 1                        |
|                 |            | 36      | 37        | 21.44                 | 21.49  | 21.42  | 22.00                               | 1                        |
|                 |            | 75      | 0         | 21.44                 | 21.48  | 21.40  | 22.00                               | 1                        |
| 15              | 16-QAM     | 1       | 0         | 21.48                 | 21.40  | 21.43  | 22.00                               | 1                        |
|                 |            | 1       | 36        | 21.46                 | 21.46  | 21.46  | 22.00                               | 1                        |
|                 |            | 1       | 74        | 21.48                 | 21.40  | 21.49  | 22.00                               | 1                        |
|                 |            | 36      | 0         | 20.47                 | 20.48  | 20.41  | 21.00                               | 2                        |
|                 |            | 36      | 18        | 20.46                 | 20.45  | 20.49  | 21.00                               | 2                        |
|                 |            | 36      | 37        | 20.49                 | 20.49  | 20.41  | 21.00                               | 2                        |
|                 |            | 75      | 0         | 20.44                 | 20.44  | 20.45  | 21.00                               | 2                        |
| 15              | 64-QAM     | 1       | 0         | 20.49                 | 20.46  | 20.42  | 21.00                               | 2                        |
|                 |            | 1       | 36        | 20.40                 | 20.48  | 20.48  | 21.00                               | 2                        |
|                 |            | 1       | 74        | 20.43                 | 20.50  | 20.40  | 21.00                               | 2                        |
|                 |            | 36      | 0         | 19.42                 | 19.44  | 19.48  | 20.00                               | 3                        |
|                 |            | 36      | 18        | 19.41                 | 19.45  | 19.41  | 20.00                               | 3                        |
|                 |            | 36      | 37        | 19.46                 | 19.50  | 19.41  | 20.00                               | 3                        |
|                 |            | 75      | 0         | 19.47                 | 19.41  | 19.41  | 20.00                               | 3                        |

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| LTE Band 4      |            |         |           |                       |        |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|--------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1715                  | 1732.5 | 1750  |                                     |                          |
| Channel         |            |         |           | 20000                 | 20175  | 20350 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 22.46                 | 22.52  | 22.56 | 23.00                               | 0                        |
|                 |            | 1       | 25        | 22.41                 | 22.55  | 22.59 | 23.00                               | 0                        |
|                 |            | 1       | 49        | 22.40                 | 22.58  | 22.55 | 23.00                               | 0                        |
|                 |            | 25      | 0         | 21.46                 | 21.45  | 21.46 | 22.00                               | 1                        |
|                 |            | 25      | 12        | 21.47                 | 21.43  | 21.41 | 22.00                               | 1                        |
|                 |            | 25      | 25        | 21.50                 | 21.42  | 21.42 | 22.00                               | 1                        |
|                 |            | 50      | 0         | 21.49                 | 21.45  | 21.47 | 22.00                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 21.50                 | 21.48  | 21.41 | 22.00                               | 1                        |
|                 |            | 1       | 25        | 21.47                 | 21.42  | 21.46 | 22.00                               | 1                        |
|                 |            | 1       | 49        | 21.45                 | 21.46  | 21.43 | 22.00                               | 1                        |
|                 |            | 25      | 0         | 20.50                 | 20.47  | 20.45 | 21.00                               | 2                        |
|                 |            | 25      | 12        | 20.40                 | 20.48  | 20.44 | 21.00                               | 2                        |
|                 |            | 25      | 25        | 20.45                 | 20.40  | 20.49 | 21.00                               | 2                        |
|                 |            | 50      | 0         | 20.42                 | 20.44  | 20.42 | 21.00                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 20.40                 | 20.45  | 20.41 | 21.00                               | 2                        |
|                 |            | 1       | 25        | 20.49                 | 20.42  | 20.49 | 21.00                               | 2                        |
|                 |            | 1       | 49        | 20.48                 | 20.45  | 20.44 | 21.00                               | 2                        |
|                 |            | 25      | 0         | 19.47                 | 19.42  | 19.44 | 20.00                               | 3                        |
|                 |            | 25      | 12        | 19.44                 | 19.42  | 19.40 | 20.00                               | 3                        |
|                 |            | 25      | 25        | 19.40                 | 19.50  | 19.44 | 20.00                               | 3                        |
|                 |            | 50      | 0         | 19.50                 | 19.48  | 19.46 | 20.00                               | 3                        |

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| LTE Band 4      |            |         |           |                       |        |        |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1712.5                | 1732.5 | 1752.5 |                                     |                          |
| Channel         |            |         |           | 19975                 | 20175  | 20375  |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.49                 | 22.57  | 22.54  | 23.00                               | 0                        |
|                 |            | 1       | 12        | 22.42                 | 22.55  | 22.55  | 23.00                               | 0                        |
|                 |            | 1       | 24        | 22.44                 | 22.58  | 22.60  | 23.00                               | 0                        |
|                 |            | 12      | 0         | 21.40                 | 21.45  | 21.42  | 22.00                               | 1                        |
|                 |            | 12      | 6         | 21.41                 | 21.50  | 21.44  | 22.00                               | 1                        |
|                 |            | 12      | 13        | 21.47                 | 21.46  | 21.47  | 22.00                               | 1                        |
|                 |            | 25      | 0         | 21.42                 | 21.48  | 21.42  | 22.00                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 21.46                 | 21.48  | 21.50  | 22.00                               | 1                        |
|                 |            | 1       | 12        | 21.41                 | 21.40  | 21.42  | 22.00                               | 1                        |
|                 |            | 1       | 24        | 21.42                 | 21.47  | 21.44  | 22.00                               | 1                        |
|                 |            | 12      | 0         | 20.50                 | 20.49  | 20.40  | 21.00                               | 2                        |
|                 |            | 12      | 6         | 20.41                 | 20.40  | 20.49  | 21.00                               | 2                        |
|                 |            | 12      | 13        | 20.46                 | 20.40  | 20.41  | 21.00                               | 2                        |
|                 |            | 25      | 0         | 20.46                 | 20.50  | 20.47  | 21.00                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 20.48                 | 20.48  | 20.47  | 21.00                               | 2                        |
|                 |            | 1       | 12        | 20.42                 | 20.47  | 20.49  | 21.00                               | 2                        |
|                 |            | 1       | 24        | 20.49                 | 20.40  | 20.49  | 21.00                               | 2                        |
|                 |            | 12      | 0         | 19.47                 | 19.45  | 19.40  | 20.00                               | 3                        |
|                 |            | 12      | 6         | 19.47                 | 19.50  | 19.42  | 20.00                               | 3                        |
|                 |            | 12      | 13        | 19.41                 | 19.50  | 19.41  | 20.00                               | 3                        |
|                 |            | 25      | 0         | 19.41                 | 19.47  | 19.40  | 20.00                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1711.5                | 1732.5 | 1753.5 |                                     |                          |
| Channel         |            |         |           | 19965                 | 20175  | 20385  |                                     |                          |
| 3               | QPSK       | 1       | 0         | 22.44                 | 22.58  | 22.54  | 23.00                               | 0                        |
|                 |            | 1       | 7         | 22.46                 | 22.59  | 22.54  | 23.00                               | 0                        |
|                 |            | 1       | 14        | 22.42                 | 22.55  | 22.51  | 23.00                               | 0                        |
|                 |            | 8       | 0         | 21.47                 | 21.50  | 21.46  | 22.00                               | 1                        |
|                 |            | 8       | 4         | 21.47                 | 21.44  | 21.49  | 22.00                               | 1                        |
|                 |            | 8       | 7         | 21.47                 | 21.41  | 21.41  | 22.00                               | 1                        |
|                 |            | 15      | 0         | 21.44                 | 21.43  | 21.45  | 22.00                               | 1                        |
| 3               | 16-QAM     | 1       | 0         | 21.48                 | 21.41  | 21.40  | 22.00                               | 1                        |
|                 |            | 1       | 7         | 21.40                 | 21.42  | 21.46  | 22.00                               | 1                        |
|                 |            | 1       | 14        | 21.40                 | 21.50  | 21.40  | 22.00                               | 1                        |
|                 |            | 8       | 0         | 20.40                 | 20.48  | 20.48  | 21.00                               | 2                        |
|                 |            | 8       | 4         | 20.47                 | 20.49  | 20.50  | 21.00                               | 2                        |
|                 |            | 8       | 7         | 20.48                 | 20.46  | 20.44  | 21.00                               | 2                        |
|                 |            | 15      | 0         | 20.49                 | 20.49  | 20.40  | 21.00                               | 2                        |
| 3               | 64-QAM     | 1       | 0         | 20.43                 | 20.49  | 20.49  | 21.00                               | 2                        |
|                 |            | 1       | 7         | 20.47                 | 20.41  | 20.41  | 21.00                               | 2                        |
|                 |            | 1       | 14        | 20.47                 | 20.50  | 20.44  | 21.00                               | 2                        |
|                 |            | 8       | 0         | 19.42                 | 19.50  | 19.49  | 20.00                               | 3                        |
|                 |            | 8       | 4         | 19.46                 | 19.48  | 19.46  | 20.00                               | 3                        |
|                 |            | 8       | 7         | 19.41                 | 19.43  | 19.49  | 20.00                               | 3                        |
|                 |            | 15      | 0         | 19.46                 | 19.40  | 19.42  | 20.00                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|--------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |        |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 1710.7                | 1732.5 | 1754.3 |                                     |                          |
| Channel         |            |         |           | 19957                 | 20175  | 20393  |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 22.41                 | 22.56  | 22.50  | 23.00                               | 0                        |
|                 |            | 1       | 2         | 22.50                 | 22.55  | 22.53  | 23.00                               | 0                        |
|                 |            | 1       | 5         | 22.50                 | 22.56  | 22.53  | 23.00                               | 0                        |
|                 |            | 3       | 0         | 21.44                 | 21.41  | 21.50  | 23.00                               | 0                        |
|                 |            | 3       | 2         | 21.42                 | 21.48  | 21.49  | 23.00                               | 0                        |
|                 |            | 3       | 3         | 21.49                 | 21.44  | 21.50  | 23.00                               | 0                        |
|                 |            | 6       | 0         | 21.47                 | 21.43  | 21.46  | 22.00                               | 1                        |
| 1.4             | 16-QAM     | 1       | 0         | 21.43                 | 21.49  | 21.45  | 22.00                               | 1                        |
|                 |            | 1       | 2         | 21.42                 | 21.43  | 21.45  | 22.00                               | 1                        |
|                 |            | 1       | 5         | 21.40                 | 21.48  | 21.48  | 22.00                               | 1                        |
|                 |            | 3       | 0         | 20.40                 | 20.46  | 20.50  | 22.00                               | 1                        |
|                 |            | 3       | 2         | 20.47                 | 20.46  | 20.49  | 22.00                               | 1                        |
|                 |            | 3       | 3         | 20.45                 | 20.48  | 20.48  | 22.00                               | 1                        |
| 1.4             | 64-QAM     | 6       | 0         | 20.42                 | 20.46  | 20.50  | 21.00                               | 2                        |
|                 |            | 1       | 0         | 20.43                 | 20.47  | 20.46  | 21.00                               | 2                        |
|                 |            | 1       | 2         | 20.49                 | 20.40  | 20.48  | 21.00                               | 2                        |
|                 |            | 1       | 5         | 20.42                 | 20.46  | 20.40  | 21.00                               | 2                        |
|                 |            | 3       | 0         | 19.49                 | 19.42  | 19.49  | 21.00                               | 2                        |
|                 |            | 3       | 2         | 19.40                 | 19.47  | 19.50  | 21.00                               | 2                        |
|                 |            | 3       | 3         | 19.50                 | 19.49  | 19.48  | 21.00                               | 2                        |
|                 |            | 6       | 0         | 19.47                 | 19.49  | 19.45  | 20.00                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 829                   | 836.5 | 844   |                                     |                          |
| Channel         |            |         |           | 20450                 | 20525 | 20600 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 23.81                 | 23.85 | 23.74 | 24.50                               | 0                        |
|                 |            | 1       | 25        | 23.73                 | 23.81 | 23.57 | 24.50                               | 0                        |
|                 |            | 1       | 49        | 23.65                 | 23.67 | 23.66 | 24.50                               | 0                        |
|                 |            | 25      | 0         | 22.70                 | 22.86 | 22.74 | 23.50                               | 1                        |
|                 |            | 25      | 12        | 22.70                 | 22.83 | 22.70 | 23.50                               | 1                        |
|                 |            | 25      | 25        | 22.66                 | 22.82 | 22.64 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 22.64                 | 22.74 | 22.59 | 23.50                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 22.73                 | 22.84 | 22.68 | 23.50                               | 1                        |
|                 |            | 1       | 25        | 22.64                 | 22.83 | 22.68 | 23.50                               | 1                        |
|                 |            | 1       | 49        | 22.62                 | 22.72 | 22.73 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 21.74                 | 21.76 | 21.66 | 22.50                               | 2                        |
|                 |            | 25      | 12        | 21.64                 | 21.84 | 21.70 | 22.50                               | 2                        |
|                 |            | 25      | 25        | 21.66                 | 21.84 | 21.69 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 21.65                 | 21.75 | 21.59 | 22.50                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 21.73                 | 21.75 | 21.64 | 22.50                               | 2                        |
|                 |            | 1       | 25        | 21.69                 | 21.78 | 21.62 | 22.50                               | 2                        |
|                 |            | 1       | 49        | 21.76                 | 21.71 | 21.67 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.80                 | 20.72 | 20.75 | 21.50                               | 3                        |
|                 |            | 25      | 12        | 20.71                 | 20.83 | 20.65 | 21.50                               | 3                        |
|                 |            | 25      | 25        | 20.70                 | 20.74 | 20.74 | 21.50                               | 3                        |
|                 |            | 50      | 0         | 20.79                 | 20.72 | 20.60 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5 | 846.5 |                                     |                          |
| Channel         |            |         |           | 20425                 | 20525 | 20625 |                                     |                          |
| 5               | QPSK       | 1       | 0         | 23.67                 | 23.66 | 23.71 | 24.50                               | 0                        |
|                 |            | 1       | 12        | 23.70                 | 23.71 | 23.66 | 24.50                               | 0                        |
|                 |            | 1       | 24        | 23.74                 | 23.68 | 23.58 | 24.50                               | 0                        |
|                 |            | 12      | 0         | 22.66                 | 22.75 | 22.60 | 23.50                               | 1                        |
|                 |            | 12      | 6         | 22.69                 | 22.80 | 22.75 | 23.50                               | 1                        |
|                 |            | 12      | 13        | 22.63                 | 22.81 | 22.67 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 22.66                 | 22.78 | 22.73 | 23.50                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 22.71                 | 22.76 | 22.69 | 23.50                               | 1                        |
|                 |            | 1       | 12        | 22.73                 | 22.82 | 22.60 | 23.50                               | 1                        |
|                 |            | 1       | 24        | 22.68                 | 22.71 | 22.64 | 23.50                               | 1                        |
|                 |            | 12      | 0         | 21.80                 | 21.68 | 21.58 | 22.50                               | 2                        |
|                 |            | 12      | 6         | 21.71                 | 21.83 | 21.60 | 22.50                               | 2                        |
|                 |            | 12      | 13        | 21.62                 | 21.81 | 21.59 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 21.72                 | 21.84 | 21.68 | 22.50                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 21.74                 | 21.83 | 21.66 | 22.50                               | 2                        |
|                 |            | 1       | 12        | 21.61                 | 21.70 | 21.63 | 22.50                               | 2                        |
|                 |            | 1       | 24        | 21.72                 | 21.74 | 21.59 | 22.50                               | 2                        |
|                 |            | 12      | 0         | 20.79                 | 20.74 | 20.73 | 21.50                               | 3                        |
|                 |            | 12      | 6         | 20.74                 | 20.82 | 20.64 | 21.50                               | 3                        |
|                 |            | 12      | 13        | 20.63                 | 20.77 | 20.59 | 21.50                               | 3                        |
|                 |            | 25      | 0         | 20.70                 | 20.81 | 20.68 | 21.50                               | 3                        |

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| LTE Band 5      |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5 | 847.5 |                                     |                          |
| Channel         |            |         |           | 20415                 | 20525 | 20635 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 23.71                 | 23.74 | 23.73 | 24.50                               | 0                        |
|                 |            | 1       | 7         | 23.66                 | 23.81 | 23.63 | 24.50                               | 0                        |
|                 |            | 1       | 14        | 23.68                 | 23.78 | 23.59 | 24.50                               | 0                        |
|                 |            | 8       | 0         | 22.63                 | 22.84 | 22.65 | 23.50                               | 1                        |
|                 |            | 8       | 4         | 22.75                 | 22.70 | 22.61 | 23.50                               | 1                        |
|                 |            | 8       | 7         | 22.64                 | 22.66 | 22.62 | 23.50                               | 1                        |
|                 |            | 15      | 0         | 22.63                 | 22.80 | 22.68 | 23.50                               | 1                        |
| 3               | 16-QAM     | 1       | 0         | 22.74                 | 22.73 | 22.56 | 23.50                               | 1                        |
|                 |            | 1       | 7         | 22.75                 | 22.72 | 22.75 | 23.50                               | 1                        |
|                 |            | 1       | 14        | 22.76                 | 22.71 | 22.72 | 23.50                               | 1                        |
|                 |            | 8       | 0         | 21.69                 | 21.70 | 21.59 | 22.50                               | 2                        |
|                 |            | 8       | 4         | 21.80                 | 21.83 | 21.59 | 22.50                               | 2                        |
|                 |            | 8       | 7         | 21.79                 | 21.80 | 21.73 | 22.50                               | 2                        |
|                 |            | 15      | 0         | 21.70                 | 21.78 | 21.64 | 22.50                               | 2                        |
| 3               | 64-QAM     | 1       | 0         | 21.64                 | 21.75 | 21.74 | 22.50                               | 2                        |
|                 |            | 1       | 7         | 21.64                 | 21.73 | 21.58 | 22.50                               | 2                        |
|                 |            | 1       | 14        | 21.67                 | 21.77 | 21.61 | 22.50                               | 2                        |
|                 |            | 8       | 0         | 20.81                 | 20.83 | 20.69 | 21.50                               | 3                        |
|                 |            | 8       | 4         | 20.64                 | 20.81 | 20.62 | 21.50                               | 3                        |
|                 |            | 8       | 7         | 20.71                 | 20.71 | 20.62 | 21.50                               | 3                        |
|                 |            | 15      | 0         | 20.61                 | 20.80 | 20.75 | 21.50                               | 3                        |

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| LTE Band 5      |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5 | 848.3 |                                     |                          |
| Channel         |            |         |           | 20407                 | 20525 | 20643 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 23.68                 | 23.83 | 23.76 | 24.50                               | 0                        |
|                 |            | 1       | 2         | 23.62                 | 23.71 | 23.73 | 24.50                               | 0                        |
|                 |            | 1       | 5         | 23.62                 | 23.68 | 23.70 | 24.50                               | 0                        |
|                 |            | 3       | 0         | 23.76                 | 23.76 | 23.58 | 24.50                               | 0                        |
|                 |            | 3       | 2         | 23.64                 | 23.82 | 23.60 | 24.50                               | 0                        |
|                 |            | 3       | 3         | 23.74                 | 23.76 | 23.71 | 24.50                               | 0                        |
|                 |            | 6       | 0         | 22.70                 | 22.81 | 22.58 | 23.50                               | 1                        |
| 1.4             | 16-QAM     | 1       | 0         | 22.75                 | 22.75 | 22.56 | 23.50                               | 1                        |
|                 |            | 1       | 2         | 22.70                 | 22.82 | 22.68 | 23.50                               | 1                        |
|                 |            | 1       | 5         | 22.64                 | 22.77 | 22.58 | 23.50                               | 1                        |
|                 |            | 3       | 0         | 22.69                 | 22.69 | 22.61 | 23.50                               | 1                        |
|                 |            | 3       | 2         | 22.77                 | 22.68 | 22.67 | 23.50                               | 1                        |
|                 |            | 3       | 3         | 22.72                 | 22.74 | 22.62 | 23.50                               | 1                        |
|                 |            | 6       | 0         | 21.75                 | 21.75 | 21.71 | 22.50                               | 2                        |
| 1.4             | 64-QAM     | 1       | 0         | 21.70                 | 21.75 | 21.65 | 22.50                               | 2                        |
|                 |            | 1       | 2         | 21.76                 | 21.82 | 21.70 | 22.50                               | 2                        |
|                 |            | 1       | 5         | 21.78                 | 21.66 | 21.67 | 22.50                               | 2                        |
|                 |            | 3       | 0         | 21.71                 | 21.75 | 21.59 | 22.50                               | 2                        |
|                 |            | 3       | 2         | 21.74                 | 21.78 | 21.64 | 22.50                               | 2                        |
|                 |            | 3       | 3         | 21.72                 | 21.84 | 21.62 | 22.50                               | 2                        |
|                 |            | 6       | 0         | 20.64                 | 20.78 | 20.60 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 2510                  | 2535  | 2560  |                                     |                          |
| Channel         |            |         |           | 20850                 | 21100 | 21350 |                                     |                          |
| 20              | QPSK       | 1       | 0         | 23.01                 | 23.62 | 23.22 | 24.50                               | 0                        |
|                 |            | 1       | 50        | 22.88                 | 23.52 | 23.09 | 24.50                               | 0                        |
|                 |            | 1       | 99        | 22.86                 | 23.31 | 23.05 | 24.50                               | 0                        |
|                 |            | 50      | 0         | 22.01                 | 22.42 | 22.10 | 23.50                               | 1                        |
|                 |            | 50      | 25        | 21.99                 | 22.35 | 22.05 | 23.50                               | 1                        |
|                 |            | 50      | 50        | 21.88                 | 22.26 | 22.20 | 23.50                               | 1                        |
|                 |            | 100     | 0         | 22.00                 | 22.33 | 22.09 | 23.50                               | 1                        |
| 20              | 16-QAM     | 1       | 0         | 21.98                 | 22.42 | 22.20 | 23.50                               | 1                        |
|                 |            | 1       | 50        | 21.84                 | 22.51 | 22.09 | 23.50                               | 1                        |
|                 |            | 1       | 99        | 21.95                 | 22.47 | 22.22 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 20.86                 | 21.51 | 21.18 | 22.50                               | 2                        |
|                 |            | 50      | 25        | 20.90                 | 21.42 | 21.20 | 22.50                               | 2                        |
|                 |            | 50      | 50        | 20.83                 | 21.53 | 21.04 | 22.50                               | 2                        |
|                 |            | 100     | 0         | 20.97                 | 21.42 | 21.19 | 22.50                               | 2                        |
| 20              | 64-QAM     | 1       | 0         | 21.00                 | 21.42 | 21.21 | 22.50                               | 2                        |
|                 |            | 1       | 50        | 20.89                 | 21.49 | 21.10 | 22.50                               | 2                        |
|                 |            | 1       | 99        | 21.01                 | 21.59 | 21.15 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 19.95                 | 20.61 | 20.19 | 21.50                               | 3                        |
|                 |            | 50      | 25        | 19.85                 | 20.47 | 20.20 | 21.50                               | 3                        |
|                 |            | 50      | 50        | 19.84                 | 20.43 | 20.11 | 21.50                               | 3                        |
|                 |            | 100     | 0         | 19.94                 | 20.59 | 20.11 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535  | 2562.5 |                                     |                          |
| Channel         |            |         |           | 20825                 | 21100 | 21375  |                                     |                          |
| 15              | QPSK       | 1       | 0         | 22.97                 | 23.59 | 23.09  | 24.50                               | 0                        |
|                 |            | 1       | 36        | 22.93                 | 23.43 | 23.14  | 24.50                               | 0                        |
|                 |            | 1       | 74        | 22.92                 | 23.53 | 23.03  | 24.50                               | 0                        |
|                 |            | 36      | 0         | 21.99                 | 22.56 | 22.16  | 23.50                               | 1                        |
|                 |            | 36      | 18        | 21.83                 | 22.55 | 22.20  | 23.50                               | 1                        |
|                 |            | 36      | 37        | 21.84                 | 22.49 | 22.04  | 23.50                               | 1                        |
|                 |            | 75      | 0         | 21.85                 | 22.49 | 22.13  | 23.50                               | 1                        |
| 15              | 16-QAM     | 1       | 0         | 21.90                 | 22.58 | 22.12  | 23.50                               | 1                        |
|                 |            | 1       | 36        | 21.94                 | 22.47 | 22.17  | 23.50                               | 1                        |
|                 |            | 1       | 74        | 21.93                 | 22.56 | 22.06  | 23.50                               | 1                        |
|                 |            | 36      | 0         | 20.95                 | 21.51 | 21.08  | 22.50                               | 2                        |
|                 |            | 36      | 18        | 20.95                 | 21.44 | 21.04  | 22.50                               | 2                        |
|                 |            | 36      | 37        | 20.90                 | 21.51 | 21.21  | 22.50                               | 2                        |
|                 |            | 75      | 0         | 20.87                 | 21.47 | 21.07  | 22.50                               | 2                        |
| 15              | 64-QAM     | 1       | 0         | 20.99                 | 21.61 | 21.09  | 22.50                               | 2                        |
|                 |            | 1       | 36        | 20.81                 | 21.45 | 21.06  | 22.50                               | 2                        |
|                 |            | 1       | 74        | 20.99                 | 21.51 | 21.09  | 22.50                               | 2                        |
|                 |            | 36      | 0         | 19.85                 | 20.47 | 20.12  | 21.50                               | 3                        |
|                 |            | 36      | 18        | 19.84                 | 20.62 | 20.03  | 21.50                               | 3                        |
|                 |            | 36      | 37        | 19.87                 | 20.49 | 20.07  | 21.50                               | 3                        |
|                 |            | 75      | 0         | 19.86                 | 20.62 | 20.09  | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 2505                  | 2535  | 2565  |                                     |                          |
| Channel         |            |         |           | 20800                 | 21100 | 21400 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 22.86                 | 23.56 | 23.21 | 24.50                               | 0                        |
|                 |            | 1       | 25        | 22.83                 | 23.48 | 23.08 | 24.50                               | 0                        |
|                 |            | 1       | 49        | 22.91                 | 23.45 | 23.17 | 24.50                               | 0                        |
|                 |            | 25      | 0         | 21.87                 | 22.46 | 22.19 | 23.50                               | 1                        |
|                 |            | 25      | 12        | 21.99                 | 22.45 | 22.11 | 23.50                               | 1                        |
|                 |            | 25      | 25        | 21.97                 | 22.54 | 22.06 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 21.81                 | 22.55 | 22.22 | 23.50                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 21.97                 | 22.44 | 22.20 | 23.50                               | 1                        |
|                 |            | 1       | 25        | 21.94                 | 22.45 | 22.12 | 23.50                               | 1                        |
|                 |            | 1       | 49        | 21.85                 | 22.52 | 22.21 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 20.84                 | 21.56 | 21.02 | 22.50                               | 2                        |
|                 |            | 25      | 12        | 20.99                 | 21.47 | 21.12 | 22.50                               | 2                        |
|                 |            | 25      | 25        | 20.90                 | 21.42 | 21.14 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 20.83                 | 21.58 | 21.15 | 22.50                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 20.97                 | 21.58 | 21.09 | 22.50                               | 2                        |
|                 |            | 1       | 25        | 20.84                 | 21.54 | 21.18 | 22.50                               | 2                        |
|                 |            | 1       | 49        | 20.85                 | 21.58 | 21.15 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 19.93                 | 20.60 | 20.05 | 21.50                               | 3                        |
|                 |            | 25      | 12        | 19.92                 | 20.57 | 20.04 | 21.50                               | 3                        |
|                 |            | 25      | 25        | 19.85                 | 20.45 | 20.03 | 21.50                               | 3                        |
|                 |            | 50      | 0         | 19.86                 | 20.46 | 20.17 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|--------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |        | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535  | 2567.5 |                                     |                          |
| Channel         |            |         |           | 20775                 | 21100 | 21425  |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.91                 | 23.42 | 23.09  | 24.50                               | 0                        |
|                 |            | 1       | 12        | 22.91                 | 23.49 | 23.13  | 24.50                               | 0                        |
|                 |            | 1       | 24        | 22.82                 | 23.56 | 23.19  | 24.50                               | 0                        |
|                 |            | 12      | 0         | 21.83                 | 22.58 | 22.03  | 23.50                               | 1                        |
|                 |            | 12      | 6         | 21.92                 | 22.46 | 22.09  | 23.50                               | 1                        |
|                 |            | 12      | 13        | 22.01                 | 22.61 | 22.08  | 23.50                               | 1                        |
|                 |            | 25      | 0         | 21.88                 | 22.55 | 22.06  | 23.50                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 21.94                 | 22.51 | 22.15  | 23.50                               | 1                        |
|                 |            | 1       | 12        | 21.91                 | 22.56 | 22.03  | 23.50                               | 1                        |
|                 |            | 1       | 24        | 21.95                 | 22.49 | 22.11  | 23.50                               | 1                        |
|                 |            | 12      | 0         | 21.01                 | 21.62 | 21.20  | 22.50                               | 2                        |
|                 |            | 12      | 6         | 20.91                 | 21.52 | 21.05  | 22.50                               | 2                        |
|                 |            | 12      | 13        | 20.83                 | 21.57 | 21.17  | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.85                 | 21.50 | 21.14  | 22.50                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 20.87                 | 21.43 | 21.08  | 22.50                               | 2                        |
|                 |            | 1       | 12        | 20.96                 | 21.55 | 21.05  | 22.50                               | 2                        |
|                 |            | 1       | 24        | 20.85                 | 21.61 | 21.10  | 22.50                               | 2                        |
|                 |            | 12      | 0         | 19.92                 | 20.56 | 20.06  | 21.50                               | 3                        |
|                 |            | 12      | 6         | 19.86                 | 20.51 | 20.10  | 21.50                               | 3                        |
|                 |            | 12      | 13        | 20.00                 | 20.44 | 20.13  | 21.50                               | 3                        |
|                 |            | 25      | 0         | 19.99                 | 20.50 | 20.02  | 21.50                               | 3                        |

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| LTE Band 12     |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 704                   | 707.5 | 711   |                                     |                          |
| Channel         |            |         |           | 23060                 | 23095 | 23130 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 23.02                 | 23.17 | 23.04 | 24.50                               | 0                        |
|                 |            | 1       | 25        | 22.87                 | 23.04 | 22.95 | 24.50                               | 0                        |
|                 |            | 1       | 49        | 22.95                 | 23.07 | 22.93 | 24.50                               | 0                        |
|                 |            | 25      | 0         | 21.89                 | 22.09 | 21.95 | 23.50                               | 1                        |
|                 |            | 25      | 12        | 22.00                 | 22.00 | 21.86 | 23.50                               | 1                        |
|                 |            | 25      | 25        | 21.84                 | 22.01 | 22.03 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 21.95                 | 22.03 | 21.89 | 23.50                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 21.98                 | 21.93 | 21.97 | 23.50                               | 1                        |
|                 |            | 1       | 25        | 21.88                 | 22.09 | 21.97 | 23.50                               | 1                        |
|                 |            | 1       | 49        | 21.98                 | 22.02 | 21.89 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 20.96                 | 20.99 | 20.93 | 22.50                               | 2                        |
|                 |            | 25      | 12        | 20.83                 | 21.12 | 20.96 | 22.50                               | 2                        |
|                 |            | 25      | 25        | 20.96                 | 20.95 | 20.90 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 20.88                 | 21.06 | 20.86 | 22.50                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 20.97                 | 21.01 | 21.03 | 22.50                               | 2                        |
|                 |            | 1       | 25        | 20.86                 | 21.06 | 20.96 | 22.50                               | 2                        |
|                 |            | 1       | 49        | 20.89                 | 21.10 | 20.91 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 19.96                 | 20.08 | 19.86 | 21.50                               | 3                        |
|                 |            | 25      | 12        | 19.95                 | 20.10 | 19.97 | 21.50                               | 3                        |
|                 |            | 25      | 25        | 19.88                 | 19.93 | 20.03 | 21.50                               | 3                        |
|                 |            | 50      | 0         | 19.93                 | 20.09 | 19.89 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5 | 713.5 |                                     |                          |
| Channel         |            |         |           | 23035                 | 23095 | 23155 |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.95                 | 22.97 | 22.96 | 24.50                               | 0                        |
|                 |            | 1       | 12        | 22.89                 | 23.10 | 22.90 | 24.50                               | 0                        |
|                 |            | 1       | 24        | 22.84                 | 22.97 | 22.99 | 24.50                               | 0                        |
|                 |            | 12      | 0         | 21.92                 | 21.97 | 22.04 | 23.50                               | 1                        |
|                 |            | 12      | 6         | 21.87                 | 22.04 | 21.94 | 23.50                               | 1                        |
|                 |            | 12      | 13        | 22.01                 | 21.98 | 21.86 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 21.84                 | 21.98 | 21.92 | 23.50                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 21.99                 | 21.96 | 21.87 | 23.50                               | 1                        |
|                 |            | 1       | 12        | 22.00                 | 22.04 | 21.84 | 23.50                               | 1                        |
|                 |            | 1       | 24        | 21.99                 | 22.09 | 21.86 | 23.50                               | 1                        |
|                 |            | 12      | 0         | 20.89                 | 21.09 | 20.85 | 22.50                               | 2                        |
|                 |            | 12      | 6         | 21.02                 | 21.11 | 20.96 | 22.50                               | 2                        |
|                 |            | 12      | 13        | 20.89                 | 21.01 | 20.93 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.93                 | 21.05 | 20.95 | 22.50                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 21.02                 | 20.99 | 20.96 | 22.50                               | 2                        |
|                 |            | 1       | 12        | 20.88                 | 20.99 | 21.01 | 22.50                               | 2                        |
|                 |            | 1       | 24        | 20.88                 | 21.10 | 20.93 | 22.50                               | 2                        |
|                 |            | 12      | 0         | 19.98                 | 20.10 | 19.96 | 21.50                               | 3                        |
|                 |            | 12      | 6         | 19.82                 | 19.96 | 19.96 | 21.50                               | 3                        |
|                 |            | 12      | 13        | 19.89                 | 20.00 | 19.96 | 21.50                               | 3                        |
|                 |            | 25      | 0         | 19.89                 | 19.98 | 20.02 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 700.5                 | 707.5 | 714.5 |                                     |                          |
| Channel         |            |         |           | 23025                 | 23095 | 23165 |                                     |                          |
| 3               | QPSK       | 1       | 0         | 22.91                 | 23.12 | 23.04 | 24.50                               | 0                        |
|                 |            | 1       | 7         | 22.89                 | 23.07 | 22.96 | 24.50                               | 0                        |
|                 |            | 1       | 14        | 22.99                 | 23.09 | 23.04 | 24.50                               | 0                        |
|                 |            | 8       | 0         | 21.84                 | 22.06 | 21.90 | 23.50                               | 1                        |
|                 |            | 8       | 4         | 22.02                 | 22.12 | 21.85 | 23.50                               | 1                        |
|                 |            | 8       | 7         | 21.87                 | 22.09 | 21.84 | 23.50                               | 1                        |
|                 |            | 15      | 0         | 21.89                 | 21.94 | 21.88 | 23.50                               | 1                        |
| 3               | 16-QAM     | 1       | 0         | 21.93                 | 21.96 | 21.86 | 23.50                               | 1                        |
|                 |            | 1       | 7         | 21.88                 | 22.09 | 21.98 | 23.50                               | 1                        |
|                 |            | 1       | 14        | 21.83                 | 22.13 | 21.94 | 23.50                               | 1                        |
|                 |            | 8       | 0         | 20.98                 | 21.01 | 20.99 | 22.50                               | 2                        |
|                 |            | 8       | 4         | 20.98                 | 21.03 | 20.90 | 22.50                               | 2                        |
|                 |            | 8       | 7         | 20.83                 | 21.01 | 20.96 | 22.50                               | 2                        |
|                 |            | 15      | 0         | 20.87                 | 21.12 | 20.90 | 22.50                               | 2                        |
| 3               | 64-QAM     | 1       | 0         | 20.99                 | 20.94 | 20.86 | 22.50                               | 2                        |
|                 |            | 1       | 7         | 20.84                 | 20.95 | 20.89 | 22.50                               | 2                        |
|                 |            | 1       | 14        | 20.87                 | 20.95 | 21.02 | 22.50                               | 2                        |
|                 |            | 8       | 0         | 20.00                 | 20.01 | 20.01 | 21.50                               | 3                        |
|                 |            | 8       | 4         | 19.99                 | 20.05 | 19.98 | 21.50                               | 3                        |
|                 |            | 8       | 7         | 19.93                 | 19.97 | 20.04 | 21.50                               | 3                        |
|                 |            | 15      | 0         | 20.01                 | 20.09 | 19.91 | 21.50                               | 3                        |

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| LTE Band 12     |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 699.7                 | 707.5 | 715.3 |                                     |                          |
| Channel         |            |         |           | 23017                 | 23095 | 23173 |                                     |                          |
| 1.4             | QPSK       | 1       | 0         | 22.84                 | 23.08 | 22.91 | 24.50                               | 0                        |
|                 |            | 1       | 2         | 22.97                 | 23.05 | 22.89 | 24.50                               | 0                        |
|                 |            | 1       | 5         | 23.01                 | 23.01 | 23.00 | 24.50                               | 0                        |
|                 |            | 3       | 0         | 22.98                 | 23.07 | 22.86 | 24.50                               | 0                        |
|                 |            | 3       | 2         | 23.00                 | 23.06 | 22.86 | 24.50                               | 0                        |
|                 |            | 3       | 3         | 22.93                 | 22.97 | 22.95 | 24.50                               | 0                        |
|                 |            | 6       | 0         | 21.82                 | 22.05 | 21.93 | 23.50                               | 1                        |
| 1.4             | 16-QAM     | 1       | 0         | 21.88                 | 21.96 | 22.00 | 23.50                               | 1                        |
|                 |            | 1       | 2         | 22.01                 | 22.02 | 21.91 | 23.50                               | 1                        |
|                 |            | 1       | 5         | 21.99                 | 22.11 | 22.02 | 23.50                               | 1                        |
|                 |            | 3       | 0         | 21.83                 | 21.96 | 21.95 | 23.50                               | 1                        |
|                 |            | 3       | 2         | 21.87                 | 22.00 | 21.91 | 23.50                               | 1                        |
|                 |            | 3       | 3         | 21.84                 | 21.96 | 21.95 | 23.50                               | 1                        |
|                 |            | 6       | 0         | 20.98                 | 20.93 | 20.98 | 22.50                               | 2                        |
| 1.4             | 64-QAM     | 1       | 0         | 20.95                 | 21.13 | 20.95 | 22.50                               | 2                        |
|                 |            | 1       | 2         | 20.94                 | 21.08 | 20.88 | 22.50                               | 2                        |
|                 |            | 1       | 5         | 20.91                 | 20.96 | 20.99 | 22.50                               | 2                        |
|                 |            | 3       | 0         | 20.85                 | 20.95 | 20.94 | 22.50                               | 2                        |
|                 |            | 3       | 2         | 20.95                 | 20.96 | 20.84 | 22.50                               | 2                        |
|                 |            | 3       | 3         | 20.88                 | 21.10 | 21.00 | 22.50                               | 2                        |
|                 |            | 6       | 0         | 19.85                 | 20.13 | 19.97 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 782                   |                                     |                          |
| Channel         |            |         |           | 23230                 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 23.20                 | 24.50                               | 0                        |
|                 |            | 1       | 25        | 23.16                 | 24.50                               | 0                        |
|                 |            | 1       | 49        | 23.18                 | 24.50                               | 0                        |
|                 |            | 25      | 0         | 22.07                 | 23.50                               | 1                        |
|                 |            | 25      | 12        | 22.04                 | 23.50                               | 1                        |
|                 |            | 25      | 25        | 22.11                 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 22.05                 | 23.50                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 22.04                 | 23.50                               | 1                        |
|                 |            | 1       | 25        | 22.10                 | 23.50                               | 1                        |
|                 |            | 1       | 49        | 22.03                 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 21.07                 | 22.50                               | 2                        |
|                 |            | 25      | 12        | 21.05                 | 22.50                               | 2                        |
|                 |            | 25      | 25        | 21.06                 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 21.13                 | 22.50                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 21.17                 | 22.50                               | 2                        |
|                 |            | 1       | 25        | 21.07                 | 22.50                               | 2                        |
|                 |            | 1       | 49        | 21.02                 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.11                 | 21.50                               | 3                        |
|                 |            | 25      | 12        | 20.15                 | 21.50                               | 3                        |
|                 |            | 25      | 25        | 20.03                 | 21.50                               | 3                        |
|                 |            | 50      | 0         | 20.12                 | 21.50                               | 3                        |

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|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 779.5                 | 782   | 784.5 |                                     |                          |
| Channel         |            |         |           | 23205                 | 23230 | 23255 |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.97                 | 23.03 | 23.07 | 24.50                               | 0                        |
|                 |            | 1       | 12        | 23.08                 | 23.14 | 23.14 | 24.50                               | 0                        |
|                 |            | 1       | 24        | 23.04                 | 23.06 | 23.03 | 24.50                               | 0                        |
|                 |            | 12      | 0         | 22.10                 | 22.12 | 22.13 | 23.50                               | 1                        |
|                 |            | 12      | 6         | 22.15                 | 22.05 | 22.09 | 23.50                               | 1                        |
|                 |            | 12      | 13        | 22.15                 | 22.06 | 22.02 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 22.14                 | 22.11 | 22.18 | 23.50                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 22.10                 | 22.04 | 22.06 | 23.50                               | 1                        |
|                 |            | 1       | 12        | 21.98                 | 22.14 | 22.02 | 23.50                               | 1                        |
|                 |            | 1       | 24        | 21.96                 | 22.14 | 22.03 | 23.50                               | 1                        |
|                 |            | 12      | 0         | 21.08                 | 21.12 | 21.20 | 22.50                               | 2                        |
|                 |            | 12      | 6         | 20.98                 | 21.01 | 21.12 | 22.50                               | 2                        |
|                 |            | 12      | 13        | 21.12                 | 21.13 | 21.14 | 22.50                               | 2                        |
| 5               | 64-QAM     | 25      | 0         | 20.98                 | 21.04 | 21.03 | 22.50                               | 2                        |
|                 |            | 1       | 0         | 21.06                 | 21.17 | 21.04 | 22.50                               | 2                        |
|                 |            | 1       | 12        | 21.00                 | 21.18 | 21.11 | 22.50                               | 2                        |
|                 |            | 1       | 24        | 21.08                 | 21.18 | 21.05 | 22.50                               | 2                        |
|                 |            | 12      | 0         | 20.08                 | 20.15 | 20.13 | 21.50                               | 3                        |
|                 |            | 12      | 6         | 20.07                 | 20.09 | 20.13 | 21.50                               | 3                        |
| 5               | 64-QAM     | 12      | 13        | 20.01                 | 20.11 | 20.17 | 21.50                               | 3                        |
|                 |            | 25      | 0         | 20.11                 | 20.17 | 20.06 | 21.50                               | 3                        |

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| LTE Band 17     |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 709                   | 710   | 711   |                                     |                          |
| Channel         |            |         |           | 23780                 | 23790 | 23800 |                                     |                          |
| 10              | QPSK       | 1       | 0         | 23.03                 | 23.00 | 22.76 | 24.50                               | 0                        |
|                 |            | 1       | 25        | 22.97                 | 22.94 | 22.67 | 24.50                               | 0                        |
|                 |            | 1       | 49        | 23.02                 | 22.89 | 22.72 | 24.50                               | 0                        |
|                 |            | 25      | 0         | 21.79                 | 21.94 | 21.56 | 23.50                               | 1                        |
|                 |            | 25      | 12        | 21.74                 | 21.80 | 21.56 | 23.50                               | 1                        |
|                 |            | 25      | 25        | 21.82                 | 21.85 | 21.58 | 23.50                               | 1                        |
|                 |            | 50      | 0         | 21.76                 | 21.92 | 21.60 | 23.50                               | 1                        |
| 10              | 16-QAM     | 1       | 0         | 22.02                 | 21.92 | 21.66 | 23.50                               | 1                        |
|                 |            | 1       | 25        | 21.86                 | 21.88 | 21.58 | 23.50                               | 1                        |
|                 |            | 1       | 49        | 21.86                 | 21.94 | 21.61 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 20.99                 | 20.80 | 20.64 | 22.50                               | 2                        |
|                 |            | 25      | 12        | 20.92                 | 20.85 | 20.72 | 22.50                               | 2                        |
|                 |            | 25      | 25        | 20.91                 | 20.85 | 20.69 | 22.50                               | 2                        |
|                 |            | 50      | 0         | 21.03                 | 20.94 | 20.67 | 22.50                               | 2                        |
| 10              | 64-QAM     | 1       | 0         | 20.85                 | 20.86 | 20.67 | 22.50                               | 2                        |
|                 |            | 1       | 25        | 20.97                 | 20.82 | 20.63 | 22.50                               | 2                        |
|                 |            | 1       | 49        | 20.95                 | 20.97 | 20.63 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.02                 | 19.83 | 19.63 | 21.50                               | 3                        |
|                 |            | 25      | 12        | 19.88                 | 19.81 | 19.72 | 21.50                               | 3                        |
|                 |            | 25      | 25        | 19.93                 | 19.95 | 19.66 | 21.50                               | 3                        |
|                 |            | 50      | 0         | 19.94                 | 19.89 | 19.60 | 21.50                               | 3                        |

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| LTE Band 17     |            |         |           |                       |       |       |                                     |                          |
|-----------------|------------|---------|-----------|-----------------------|-------|-------|-------------------------------------|--------------------------|
| BW(MHz)         | Modulation | RB Size | RB Offset | Conducted power (dBm) |       |       | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| Frequency (MHz) |            |         |           | 706.5                 | 710   | 713.5 |                                     |                          |
| Channel         |            |         |           | 23755                 | 23790 | 23825 |                                     |                          |
| 5               | QPSK       | 1       | 0         | 22.99                 | 22.86 | 22.55 | 24.50                               | 0                        |
|                 |            | 1       | 12        | 22.99                 | 23.00 | 22.72 | 24.50                               | 0                        |
|                 |            | 1       | 24        | 22.96                 | 22.94 | 22.60 | 24.50                               | 0                        |
|                 |            | 12      | 0         | 21.97                 | 21.90 | 21.59 | 23.50                               | 1                        |
|                 |            | 12      | 6         | 22.02                 | 21.82 | 21.58 | 23.50                               | 1                        |
|                 |            | 12      | 13        | 21.94                 | 21.91 | 21.67 | 23.50                               | 1                        |
|                 |            | 25      | 0         | 21.85                 | 21.99 | 21.58 | 23.50                               | 1                        |
| 5               | 16-QAM     | 1       | 0         | 21.86                 | 21.85 | 21.65 | 23.50                               | 1                        |
|                 |            | 1       | 12        | 21.86                 | 21.83 | 21.64 | 23.50                               | 1                        |
|                 |            | 1       | 24        | 21.97                 | 21.87 | 21.71 | 23.50                               | 1                        |
|                 |            | 12      | 0         | 20.94                 | 20.94 | 20.64 | 22.50                               | 2                        |
|                 |            | 12      | 6         | 20.88                 | 20.94 | 20.61 | 22.50                               | 2                        |
|                 |            | 12      | 13        | 20.83                 | 20.87 | 20.55 | 22.50                               | 2                        |
|                 |            | 25      | 0         | 20.84                 | 20.86 | 20.71 | 22.50                               | 2                        |
| 5               | 64-QAM     | 1       | 0         | 21.03                 | 20.80 | 20.64 | 22.50                               | 2                        |
|                 |            | 1       | 12        | 21.00                 | 20.93 | 20.57 | 22.50                               | 2                        |
|                 |            | 1       | 24        | 20.96                 | 20.80 | 20.68 | 22.50                               | 2                        |
|                 |            | 12      | 0         | 19.88                 | 19.83 | 19.69 | 21.50                               | 3                        |
|                 |            | 12      | 6         | 19.92                 | 19.97 | 19.57 | 21.50                               | 3                        |
|                 |            | 12      | 13        | 19.85                 | 19.95 | 19.73 | 21.50                               | 3                        |
|                 |            | 25      | 0         | 19.99                 | 19.95 | 19.70 | 21.50                               | 3                        |

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| Ant 1         |               |         |                 |           |                                              |                     |
|---------------|---------------|---------|-----------------|-----------|----------------------------------------------|---------------------|
| Band          | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2.45GHz       | 802.11b       | 1       | 2412            | 1Mbps     | 14.97                                        | 14.88               |
|               |               | 6       | 2437            |           | 14.25                                        | 14.19               |
|               |               | 11      | 2462            |           | 14.89                                        | 14.75               |
|               | 802.11g       | 1       | 2412            | 6Mbps     | 13.91                                        | 13.88               |
|               |               | 6       | 2437            |           | 13.19                                        | 13.13               |
|               |               | 11      | 2462            |           | 13.64                                        | 13.57               |
|               | 802.11n20-HT0 | 1       | 2412            | MCS0      | 12.11                                        | 11.88               |
|               |               | 6       | 2437            |           | 12.37                                        | 12.31               |
|               |               | 11      | 2462            |           | 12.16                                        | 12.14               |
| Ant 1         |               |         |                 |           |                                              |                     |
| Band          | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a       | 36      | 5180            | 6Mbps     | 12.28                                        | 12.08               |
|               |               | 40      | 5200            |           | 12.28                                        | 12.04               |
|               |               | 44      | 5220            |           | 11.75                                        | 11.72               |
|               |               | 48      | 5240            |           | 11.67                                        | 11.21               |
| Ant 1         |               |         |                 |           |                                              |                     |
| Mode          | Mode          | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.8GHz        | 802.11a       | 149     | 5745            | 6Mbps     | 11.93                                        | 11.73               |
|               |               | 157     | 5785            |           | 12.48                                        | 12.26               |
|               |               | 165     | 5825            |           | 12.42                                        | 12.15               |

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## 5.4 Bluetooth

| Mode   | Channel | Frequency (MHz) | 1Mbps                                        |                     | 2Mbps                                        |                     | 3Mbps                                        |                     |
|--------|---------|-----------------|----------------------------------------------|---------------------|----------------------------------------------|---------------------|----------------------------------------------|---------------------|
|        |         |                 | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| BR/EDR | CH 00   | 2402            | 11.50                                        | 11.16               | 10.00                                        | 9.74                | 10.00                                        | 9.82                |
|        | CH 39   | 2441            |                                              | 10.43               |                                              | 9.48                |                                              | 9.44                |
|        | CH 78   | 2480            |                                              | 9.81                |                                              | 8.36                |                                              | 8.32                |

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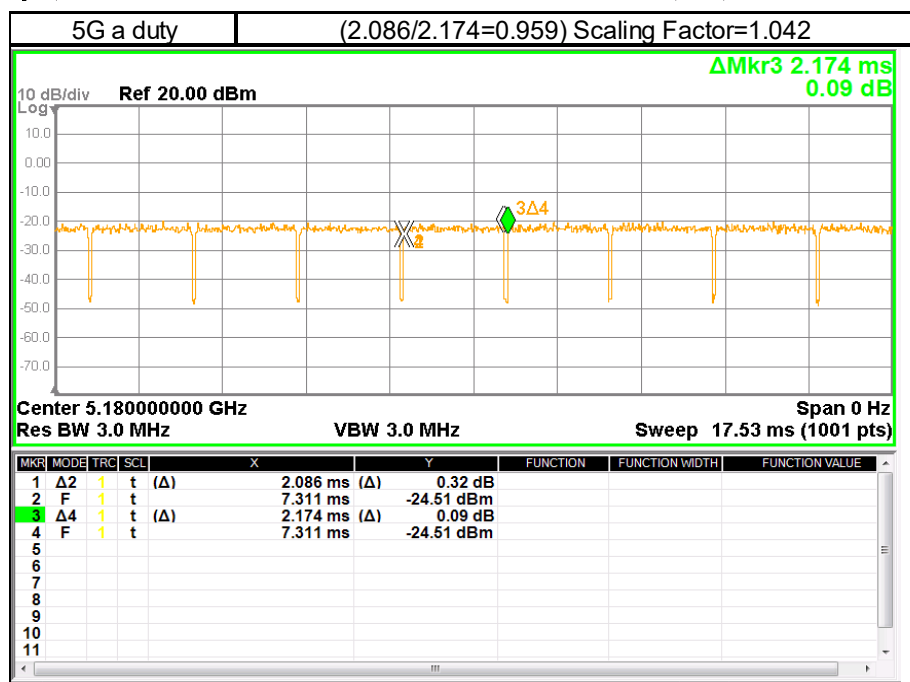
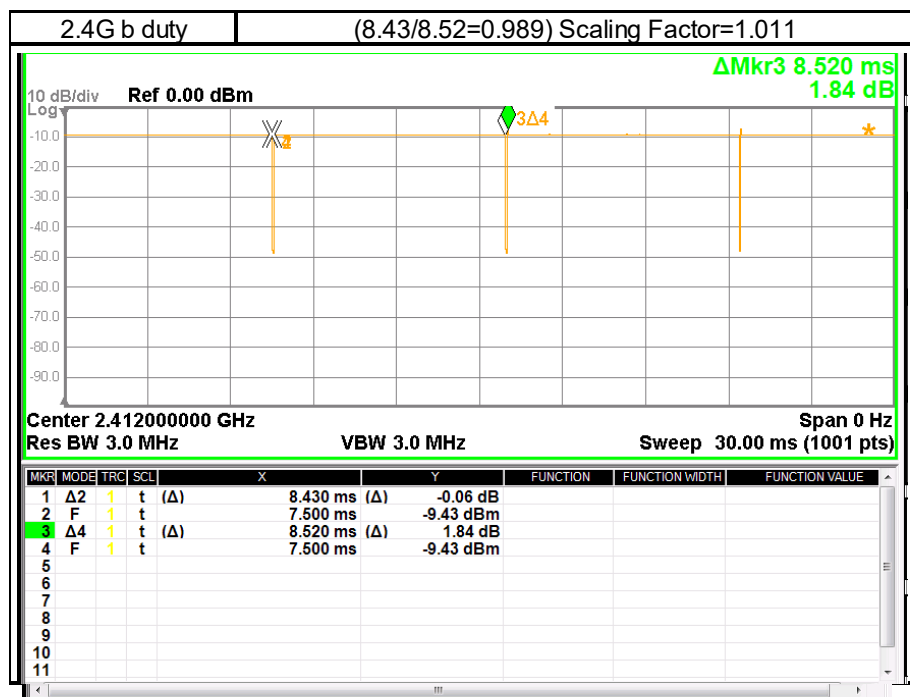
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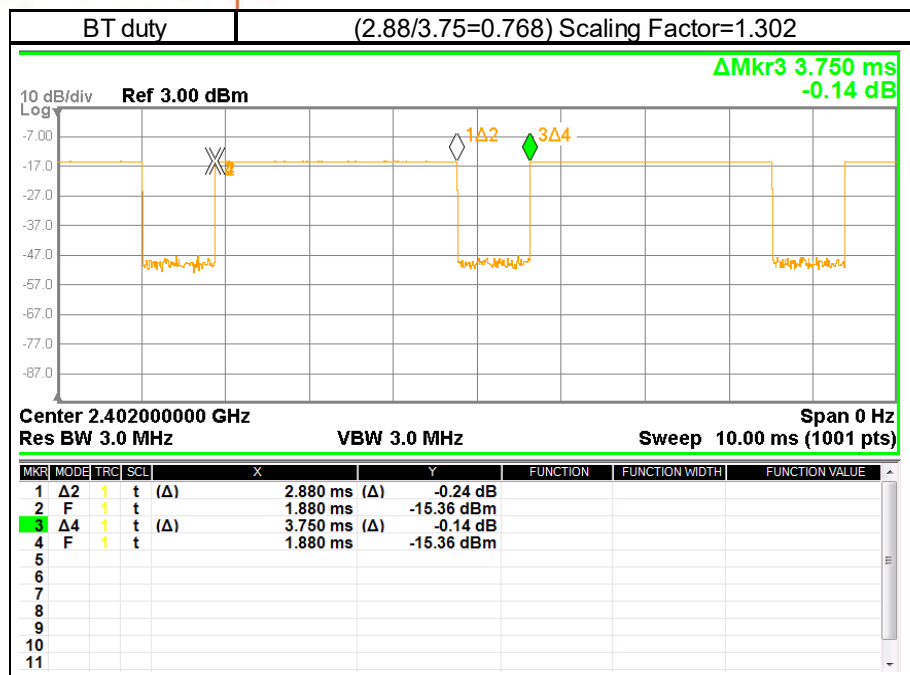
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## 6 SUMMARY OF RESULTS

### 6.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 6.2 Summary of SAR Results

| Band          | Position      | Distance (mm) | CH   | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|---------------|---------------|---------------|------|-------------|----------------------------------------------|---------------------------|---------|-----------------------------|----------|-----|
|               |               |               |      |             |                                              |                           |         | Measured                    | Reported |     |
| WCDMA Band II | Front Surface | 5             | 9262 | 1852.4      | 24.0                                         | 23.61                     | 109.40% | 0.872                       | 0.954    | -   |
| WCDMA Band II | Front Surface | 5             | 9400 | 1880        | 24.0                                         | 23.77                     | 105.44% | 0.976                       | 1.029    | 001 |
| Repeated      | Front Surface | 5             | 9400 | 1880        | 24.0                                         | 23.77                     | 105.44% | 0.952                       | 1.004    | -   |
| WCDMA Band II | Front Surface | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.924                       | 0.952    | -   |
| WCDMA Band II | Back Surface  | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.322                       | 0.332    | -   |
| WCDMA Band II | Top Edge      | 5             | 9262 | 1852.4      | 24.0                                         | 23.61                     | 109.40% | 0.723                       | 0.791    | -   |
| WCDMA Band II | Top Edge      | 5             | 9400 | 1880        | 24.0                                         | 23.77                     | 105.44% | 0.754                       | 0.795    | -   |
| WCDMA Band II | Top Edge      | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.809                       | 0.834    | -   |
| WCDMA Band II | Bottom Edge   | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.001                       | 0.001    | -   |
| WCDMA Band II | Left Edge     | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.141                       | 0.145    | -   |
| WCDMA Band II | Right Edge    | 5             | 9538 | 1907.6      | 24.0                                         | 23.87                     | 103.04% | 0.120                       | 0.124    | -   |
| WCDMA Band IV | Front Surface | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.257                       | 0.264    | -   |
| WCDMA Band IV | Back Surface  | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.220                       | 0.226    | -   |
| WCDMA Band IV | Top Edge      | 5             | 1312 | 1712.4      | 23.0                                         | 22.78                     | 105.20% | 0.661                       | 0.695    | -   |
| WCDMA Band IV | Top Edge      | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.739                       | 0.758    | -   |
| WCDMA Band IV | Top Edge      | 5             | 1513 | 1752.6      | 23.0                                         | 22.84                     | 103.75% | 0.941                       | 0.976    | 002 |
| WCDMA Band IV | Bottom Edge   | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.001                       | 0.001    | -   |
| WCDMA Band IV | Left Edge     | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.064                       | 0.066    | -   |
| WCDMA Band IV | Right Edge    | 5             | 1412 | 1732.4      | 23.0                                         | 22.89                     | 102.57% | 0.053                       | 0.054    | -   |
| WCDMA Band V  | Front Surface | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.165                       | 0.178    | -   |
| WCDMA Band V  | Back Surface  | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.373                       | 0.402    | 003 |
| WCDMA Band V  | Back Surface  | 5             | 4183 | 836.6       | 24.0                                         | 23.65                     | 108.39% | 0.363                       | 0.393    | -   |
| WCDMA Band V  | Back Surface  | 5             | 4233 | 846.6       | 24.0                                         | 23.64                     | 108.64% | 0.351                       | 0.381    | -   |
| WCDMA Band V  | Top Edge      | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.001                       | 0.001    | -   |
| WCDMA Band V  | Bottom Edge   | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.001                       | 0.001    | -   |
| WCDMA Band V  | Left Edge     | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.198                       | 0.213    | -   |
| WCDMA Band V  | Right Edge    | 5             | 4132 | 826.4       | 24.0                                         | 23.68                     | 107.65% | 0.137                       | 0.147    | -   |

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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| Mode       | Bandwidth<br>(MHz) | Modulation | RB<br>Size | RB<br>start | Position      | Distance<br>(mm) | CH    | Freq.<br>(MHz) | Max. Rated Avg.<br>Power + Max.<br>Tolerance (dBm) | Measured<br>Avg. Power<br>(dBm) | Averaged SAR over 1g (W/kg) |          | ID  |
|------------|--------------------|------------|------------|-------------|---------------|------------------|-------|----------------|----------------------------------------------------|---------------------------------|-----------------------------|----------|-----|
|            |                    |            |            |             |               |                  |       |                |                                                    |                                 | Measured                    | Reported |     |
| LTE Band 2 | 20MHz              | QPSK       | 1          | 0           | Front Surface | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.648                       | 0.732    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Front Surface | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.540                       | 0.614    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Back Surface  | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.352                       | 0.398    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Back Surface  | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.259                       | 0.295    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Top Edge      | 5                | 18700 | 1860           | 23.00                                              | 22.42                           | 0.802                       | 0.917    | 004 |
| LTE Band 2 |                    |            | 1          | 0           | Top Edge      | 5                | 18900 | 1860           | 23.00                                              | 22.45                           | 0.724                       | 0.822    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Top Edge      | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.633                       | 0.715    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Top Edge      | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.539                       | 0.613    | -   |
| LTE Band 2 |                    |            | 100RB      |             | Top Edge      | 5                | 18700 | 1860           | 22.00                                              | 21.47                           | 0.539                       | 0.609    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Bottom Edge   | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.001                       | 0.001    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Bottom Edge   | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.001                       | 0.001    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Left Edge     | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.134                       | 0.151    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Left Edge     | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.127                       | 0.144    | -   |
| LTE Band 2 |                    |            | 1          | 0           | Right Edge    | 5                | 19100 | 1900           | 23.00                                              | 22.47                           | 0.141                       | 0.159    | -   |
| LTE Band 2 |                    |            | 50         | 50          | Right Edge    | 5                | 18900 | 1860           | 22.00                                              | 21.44                           | 0.132                       | 0.150    | -   |
| LTE Band 4 | 20MHz              | QPSK       | 1          | 0           | Front Surface | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.274                       | 0.300    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Front Surface | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.256                       | 0.288    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Back Surface  | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.254                       | 0.279    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Back Surface  | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.203                       | 0.228    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Top Edge      | 5                | 20050 | 1720           | 23.00                                              | 22.49                           | 0.679                       | 0.764    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Top Edge      | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.824                       | 0.903    | -   |
| LTE Band 4 |                    |            | 1          | 99          | Top Edge      | 5                | 20300 | 1745           | 23.00                                              | 22.56                           | 0.947                       | 1.048    | 005 |
| Repeated   |                    |            | 1          | 99          | Top Edge      | 5                | 20300 | 1745           | 23.00                                              | 22.56                           | 0.938                       | 1.038    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Top Edge      | 5                | 20050 | 1720           | 22.00                                              | 21.45                           | 0.670                       | 0.760    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Top Edge      | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.684                       | 0.769    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Top Edge      | 5                | 20300 | 1745           | 22.00                                              | 21.49                           | 0.806                       | 0.906    | -   |
| LTE Band 4 |                    |            | 100RB      |             | Top Edge      | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.726                       | 0.816    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Bottom Edge   | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.001                       | 0.001    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Bottom Edge   | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.001                       | 0.001    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Left Edge     | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.092                       | 0.101    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Left Edge     | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.087                       | 0.098    | -   |
| LTE Band 4 |                    |            | 1          | 0           | Right Edge    | 5                | 20175 | 1732.5         | 23.00                                              | 22.60                           | 0.093                       | 0.102    | -   |
| LTE Band 4 |                    |            | 50         | 0           | Right Edge    | 5                | 20175 | 1732.5         | 22.00                                              | 21.49                           | 0.080                       | 0.090    | -   |
| LTE Band 5 | 10MHz              | QPSK       | 1          | 0           | Front Surface | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.174                       | 0.202    | -   |
| LTE Band 5 |                    |            | 25         | 0           | Front Surface | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.161                       | 0.187    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Back Surface  | 5                | 20450 | 829            | 24.50                                              | 23.81                           | 0.402                       | 0.471    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Back Surface  | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.401                       | 0.466    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Back Surface  | 5                | 20600 | 844            | 24.50                                              | 23.74                           | 0.402                       | 0.479    | 006 |
| LTE Band 5 |                    |            | 25         | 0           | Back Surface  | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.316                       | 0.366    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Top Edge      | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.001                       | 0.001    | -   |
| LTE Band 5 |                    |            | 25         | 0           | Top Edge      | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.001                       | 0.001    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Bottom Edge   | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.001                       | 0.001    | -   |
| LTE Band 5 |                    |            | 25         | 0           | Bottom Edge   | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.001                       | 0.001    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Left Edge     | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.195                       | 0.226    | -   |
| LTE Band 5 |                    |            | 25         | 0           | Left Edge     | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.182                       | 0.211    | -   |
| LTE Band 5 |                    |            | 1          | 0           | Right Edge    | 5                | 20525 | 836.5          | 24.50                                              | 23.85                           | 0.260                       | 0.302    | -   |
| LTE Band 5 |                    |            | 25         | 0           | Right Edge    | 5                | 20525 | 836.5          | 23.50                                              | 22.86                           | 0.248                       | 0.287    | -   |
| LTE Band 7 | 20MHz              | QPSK       | 1          | 0           | Front Surface | 5                | 20850 | 2510           | 24.50                                              | 23.01                           | 0.559                       | 0.788    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Front Surface | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.581                       | 0.712    | 007 |
| LTE Band 7 |                    |            | 1          | 0           | Front Surface | 5                | 21350 | 2560           | 24.50                                              | 23.22                           | 0.440                       | 0.591    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Front Surface | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.399                       | 0.512    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Back Surface  | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.180                       | 0.220    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Back Surface  | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.167                       | 0.214    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Top Edge      | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.180                       | 0.220    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Top Edge      | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.169                       | 0.217    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Bottom Edge   | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.001                       | 0.001    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Bottom Edge   | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.001                       | 0.001    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Left Edge     | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.287                       | 0.351    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Left Edge     | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.274                       | 0.351    | -   |
| LTE Band 7 |                    |            | 1          | 0           | Right Edge    | 5                | 21100 | 2535           | 24.50                                              | 23.62                           | 0.071                       | 0.087    | -   |
| LTE Band 7 |                    |            | 50         | 0           | Right Edge    | 5                | 21100 | 2535           | 23.50                                              | 22.42                           | 0.063                       | 0.081    | -   |

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

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| Mode        | Bandwidth (MHz) | Modulation | RB Size | RB start | Position      | Distance (mm) | CH    | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Averaged SAR over 1g (W/kg) |          | ID  |
|-------------|-----------------|------------|---------|----------|---------------|---------------|-------|-------------|----------------------------------------------|---------------------------|-----------------------------|----------|-----|
|             |                 |            |         |          |               |               |       |             |                                              |                           | Measured                    | Reported |     |
| LTE Band 12 | 10MHz           | QPSK       | 1       | 0        | Front Surface | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.070                       | 0.095    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Front Surface | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.058                       | 0.080    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Back Surface  | 5             | 23060 | 704         | 24.50                                        | 23.02                     | 0.094                       | 0.132    | 008 |
| LTE Band 12 |                 |            | 1       | 0        | Back Surface  | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.090                       | 0.122    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Back Surface  | 5             | 23130 | 711         | 24.50                                        | 23.04                     | 0.087                       | 0.122    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Back Surface  | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.037                       | 0.051    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Top Edge      | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Top Edge      | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Bottom Edge   | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Bottom Edge   | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Left Edge     | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Left Edge     | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 1       | 0        | Right Edge    | 5             | 23095 | 707.5       | 24.50                                        | 23.17                     | 0.001                       | 0.001    | -   |
| LTE Band 12 |                 |            | 25      | 0        | Right Edge    | 5             | 23095 | 707.5       | 23.50                                        | 22.09                     | 0.001                       | 0.001    | -   |
| LTE Band 13 | 10MHz           | QPSK       | 1       | 0        | Front Surface | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.058                       | 0.078    | -   |
| LTE Band 13 |                 |            | 25      | 25       | Front Surface | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.045                       | 0.062    | -   |
| LTE Band 13 |                 |            | 1       | 0        | Back Surface  | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.298                       | 0.402    | 009 |
| LTE Band 13 |                 |            | 25      | 50       | Back Surface  | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.264                       | 0.364    | -   |
| LTE Band 13 |                 |            | 1       | 0        | Top Edge      | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.001                       | 0.001    | -   |
| LTE Band 13 |                 |            | 25      | 50       | Top Edge      | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.001                       | 0.001    | -   |
| LTE Band 13 |                 |            | 1       | 0        | Bottom Edge   | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.001                       | 0.001    | -   |
| LTE Band 13 |                 |            | 25      | 50       | Bottom Edge   | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.001                       | 0.001    | -   |
| LTE Band 13 |                 |            | 1       | 0        | Left Edge     | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.170                       | 0.229    | -   |
| LTE Band 13 |                 |            | 25      | 50       | Left Edge     | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.140                       | 0.193    | -   |
| LTE Band 13 |                 |            | 1       | 0        | Right Edge    | 5             | 23230 | 782         | 24.50                                        | 23.20                     | 0.159                       | 0.214    | -   |
| LTE Band 13 |                 |            | 25      | 50       | Right Edge    | 5             | 23230 | 782         | 23.50                                        | 22.11                     | 0.132                       | 0.182    | -   |
| LTE Band 17 | 10MHz           | QPSK       | 1       | 0        | Front Surface | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.046                       | 0.065    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Front Surface | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.031                       | 0.044    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Back Surface  | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.069                       | 0.096    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Back Surface  | 5             | 23790 | 710         | 24.50                                        | 23.00                     | 0.072                       | 0.101    | 010 |
| LTE Band 17 |                 |            | 1       | 0        | Back Surface  | 5             | 23800 | 711         | 24.50                                        | 22.76                     | 0.071                       | 0.106    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Back Surface  | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.057                       | 0.081    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Top Edge      | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Top Edge      | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Bottom Edge   | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Bottom Edge   | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Left Edge     | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Left Edge     | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 1       | 0        | Right Edge    | 5             | 23780 | 709         | 24.50                                        | 23.03                     | 0.001                       | 0.001    | -   |
| LTE Band 17 |                 |            | 25      | 0        | Right Edge    | 5             | 23790 | 710         | 23.50                                        | 21.94                     | 0.001                       | 0.001    | -   |

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| Mode         | Position      | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Duty cycle scaling | Power scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|--------------|---------------|---------------|----|-------------|----------------------------------------------|---------------------------|--------------------|---------------|-----------------------------|----------|-----|
|              |               |               |    |             |                                              |                           |                    |               | Measured                    | Reported |     |
| WLAN 802.11b | Front Surface | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.001                       | 0.001    | -   |
| WLAN 802.11b | Back Surface  | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.442                       | 0.456    | -   |
| WLAN 802.11b | Back Surface  | 5             | 6  | 2437        | 14.25                                        | 14.19                     | 1.01               | 101.39%       | 0.950                       | 0.974    | 011 |
| Repeated     | Back Surface  | 5             | 6  | 2437        | 14.25                                        | 14.19                     | 1.01               | 101.39%       | 0.822                       | 0.843    | -   |
| WLAN 802.11b | Back Surface  | 5             | 11 | 2462        | 14.89                                        | 14.75                     | 1.01               | 103.28%       | 0.795                       | 0.830    | -   |
| WLAN 802.11b | Top Edge      | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.001                       | 0.001    | -   |
| WLAN 802.11b | Bottom Edge   | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.001                       | 0.001    | -   |
| WLAN 802.11b | Left Edge     | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.001                       | 0.001    | -   |
| WLAN 802.11b | Right Edge    | 5             | 1  | 2412        | 14.97                                        | 14.88                     | 1.01               | 102.09%       | 0.593                       | 0.612    | -   |

| Mode            | Position      | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Duty cycle scaling | Power scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|-----------------|---------------|---------------|----|-------------|----------------------------------------------|---------------------------|--------------------|---------------|-----------------------------|----------|-----|
|                 |               |               |    |             |                                              |                           |                    |               | Measured                    | Reported |     |
| Bluetooth(GFSK) | Front Surface | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.001                       | 0.001    | -   |
| Bluetooth(GFSK) | Back Surface  | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.118                       | 0.166    | 012 |
| Bluetooth(GFSK) | Back Surface  | 5             | 39 | 2441        | 11.50                                        | 10.43                     | 1.30               | 127.94%       | 0.089                       | 0.148    | -   |
| Bluetooth(GFSK) | Back Surface  | 5             | 78 | 2480        | 11.50                                        | 9.81                      | 1.30               | 147.57%       | 0.093                       | 0.179    | -   |
| Bluetooth(GFSK) | Top Edge      | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.001                       | 0.001    | -   |
| Bluetooth(GFSK) | Bottom Edge   | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.001                       | 0.001    | -   |
| Bluetooth(GFSK) | Left Edge     | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.001                       | 0.001    | -   |
| Bluetooth(GFSK) | Right Edge    | 5             | 0  | 2402        | 11.50                                        | 11.16                     | 1.30               | 108.14%       | 0.001                       | 0.001    | -   |

| Mode              | Position      | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Duty cycle scaling | Power scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|-------------------|---------------|---------------|----|-------------|----------------------------------------------|---------------------------|--------------------|---------------|-----------------------------|----------|-----|
|                   |               |               |    |             |                                              |                           |                    |               | Measured                    | Reported |     |
| WLAN 802.11a 5.2G | Front Surface | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.055                       | 0.060    | -   |
| WLAN 802.11a 5.2G | Back Surface  | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.593                       | 0.647    | -   |
| WLAN 802.11a 5.2G | Back Surface  | 5             | 40 | 5200        | 12.28                                        | 12.04                     | 1.04               | 105.68%       | 0.635                       | 0.699    | -   |
| WLAN 802.11a 5.2G | Back Surface  | 5             | 44 | 5220        | 11.75                                        | 11.72                     | 1.04               | 100.69%       | 0.654                       | 0.686    | -   |
| WLAN 802.11a 5.2G | Back Surface  | 5             | 48 | 5240        | 11.67                                        | 11.21                     | 1.04               | 111.17%       | 0.871                       | 1.009    | 013 |
| Repeated          | Back Surface  | 5             | 48 | 5240        | 11.67                                        | 11.21                     | 1.04               | 111.17%       | 0.806                       | 0.934    | -   |
| WLAN 802.11a 5.2G | Top Edge      | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.057                       | 0.062    | -   |
| WLAN 802.11a 5.2G | Bottom Edge   | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.001                       | 0.001    | -   |
| WLAN 802.11a 5.2G | Left Edge     | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.050                       | 0.055    | -   |
| WLAN 802.11a 5.2G | Right Edge    | 5             | 36 | 5180        | 12.28                                        | 12.08                     | 1.04               | 104.71%       | 0.394                       | 0.430    | -   |

| Mode              | Position      | Distance (mm) | CH  | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Duty cycle scaling | Power scaling | Averaged SAR over 1g (W/kg) |          | ID  |
|-------------------|---------------|---------------|-----|-------------|----------------------------------------------|---------------------------|--------------------|---------------|-----------------------------|----------|-----|
|                   |               |               |     |             |                                              |                           |                    |               | Measured                    | Reported |     |
| WLAN 802.11a 5.8G | Front Surface | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.051                       | 0.056    | -   |
| WLAN 802.11a 5.8G | Back Surface  | 5             | 149 | 5745        | 11.93                                        | 11.73                     | 1.04               | 104.71%       | 0.791                       | 0.863    | -   |
| WLAN 802.11a 5.8G | Back Surface  | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.843                       | 0.924    | 014 |
| WLAN 802.11a 5.8G | Back Surface  | 5             | 165 | 5825        | 12.42                                        | 12.15                     | 1.04               | 106.41%       | 0.821                       | 0.910    | -   |
| Repeated          | Back Surface  | 5             | 157 | 5785        | 12.42                                        | 12.26                     | 1.04               | 103.75%       | 0.812                       | 0.878    | -   |
| WLAN 802.11a 5.8G | Top Edge      | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.067                       | 0.073    | -   |
| WLAN 802.11a 5.8G | Bottom Edge   | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.058                       | 0.064    | -   |
| WLAN 802.11a 5.8G | Left Edge     | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.065                       | 0.071    | -   |
| WLAN 802.11a 5.8G | Right Edge    | 5             | 157 | 5785        | 12.48                                        | 12.26                     | 1.04               | 105.20%       | 0.356                       | 0.390    | -   |

\* - repeated at the highest SAR measurement according to the KDB 865664 D01

## Note:

Reported SAR = measured SAR \* Power scaling \* Duty cycle scaling

## 6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

## 6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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## 7 SIMULTANEOUS TRANSMISSION ANALYSIS

### 7.1 Simultaneous Transmission Scenarios:

| Simultaneous Transmit Configurations | Body |
|--------------------------------------|------|
| WWAN+WLAN 2.4GHz                     | YES  |
| WWAN+ BT                             | YES  |
| WWAN+WLAN 2.4GHz+ BT                 | YES  |
| WWAN+WLAN 5GHz                       | YES  |
| WWAN+WLAN 5GHz + BT                  | YES  |

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## 7.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

## 7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by  $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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## Simultaneous Transmission Combination

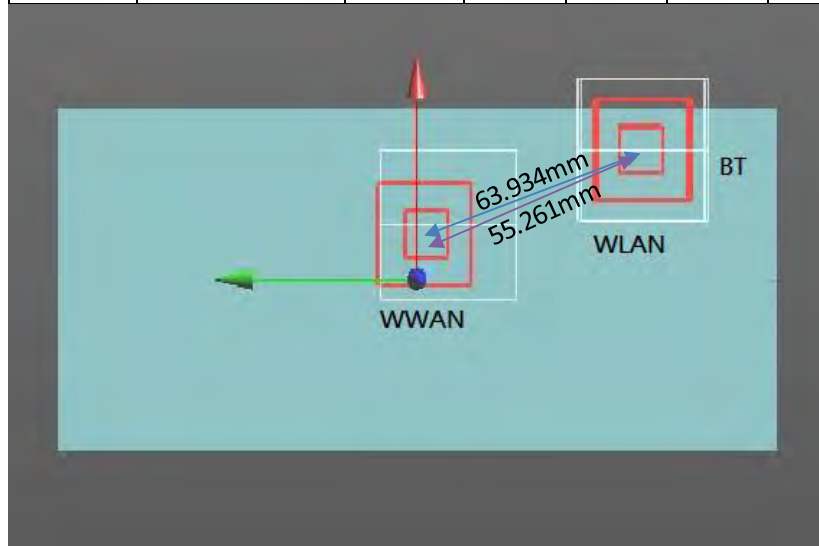
|               |                   |   | FCC Reported SAR |                      |                    |                    | Scenario1     | Scenario2     | Scenario3     | Scenario4     | Scenario5     |
|---------------|-------------------|---|------------------|----------------------|--------------------|--------------------|---------------|---------------|---------------|---------------|---------------|
|               | Exposure Position |   | 1                | 2                    | 4                  | 6                  | 1+2           | 1+6           | 1+2+6         | 1+4           | 1+4+6         |
|               |                   |   | WWAN             | 2.4GHz WLAN<br>Ant 1 | 5GHz WLAN<br>Ant 1 | Bluetooth<br>Ant 1 | Summed        | Summed        | Summed        | Summed        | Summed        |
|               |                   |   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg)     | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| WCDMA Band II | Front Surface     | 5 | 1.029            | 0.001                | 0.060              | 0.001              | 1.030         | 1.030         | 1.031         | 1.089         | 1.090         |
|               | Back Surface      | 5 | 0.332            | 0.974                | 1.009              | 0.179              | 1.306         | 0.511         | 1.485         | 1.341         | 1.520         |
|               | Top Edge          | 5 | 0.834            | 0.001                | 0.073              | 0.001              | 0.835         | 0.835         | 0.836         | 0.907         | 0.908         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.145            | 0.001                | 0.071              | 0.001              | 0.146         | 0.146         | 0.147         | 0.216         | 0.217         |
|               | Right Edge        | 5 | 0.124            | 0.612                | 0.430              | 0.001              | 0.736         | 0.125         | 0.737         | 0.554         | 0.555         |
| WCDMA Band IV | Front Surface     | 5 | 0.264            | 0.001                | 0.060              | 0.001              | 0.265         | 0.265         | 0.266         | 0.324         | 0.325         |
|               | Back Surface      | 5 | 0.226            | 0.974                | 1.009              | 0.179              | 1.200         | 0.405         | 1.379         | 1.235         | 1.414         |
|               | Top Edge          | 5 | 0.976            | 0.001                | 0.073              | 0.001              | 0.977         | 0.977         | 0.978         | 1.049         | 1.050         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.066            | 0.001                | 0.071              | 0.001              | 0.067         | 0.067         | 0.068         | 0.137         | 0.138         |
|               | Right Edge        | 5 | 0.054            | 0.612                | 0.430              | 0.001              | 0.666         | 0.055         | 0.667         | 0.484         | 0.485         |
| WCDMA Band V  | Front Surface     | 5 | 0.178            | 0.001                | 0.060              | 0.001              | 0.179         | 0.179         | 0.180         | 0.238         | 0.239         |
|               | Back Surface      | 5 | 0.402            | 0.974                | 1.009              | 0.179              | 1.376         | 0.581         | 1.555         | 1.411         | 1.590         |
|               | Top Edge          | 5 | 0.001            | 0.001                | 0.073              | 0.001              | 0.002         | 0.002         | 0.003         | 0.074         | 0.075         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.213            | 0.001                | 0.071              | 0.001              | 0.214         | 0.214         | 0.215         | 0.284         | 0.285         |
|               | Right Edge        | 5 | 0.147            | 0.612                | 0.430              | 0.001              | 0.759         | 0.148         | 0.760         | 0.577         | 0.578         |
| LTE Band 2    | Front Surface     | 5 | 0.732            | 0.001                | 0.060              | 0.001              | 0.733         | 0.733         | 0.734         | 0.792         | 0.793         |
|               | Back Surface      | 5 | 0.398            | 0.974                | 1.009              | 0.179              | 1.372         | 0.577         | 1.551         | 1.407         | 1.586         |
|               | Top Edge          | 5 | 0.917            | 0.001                | 0.073              | 0.001              | 0.918         | 0.918         | 0.919         | 0.990         | 0.991         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.151            | 0.001                | 0.071              | 0.001              | 0.152         | 0.152         | 0.153         | 0.222         | 0.223         |
|               | Right Edge        | 5 | 0.159            | 0.612                | 0.430              | 0.001              | 0.771         | 0.160         | 0.772         | 0.589         | 0.590         |
| LTE Band 4    | Front Surface     | 5 | 0.300            | 0.001                | 0.060              | 0.001              | 0.301         | 0.301         | 0.302         | 0.360         | 0.361         |
|               | Back Surface      | 5 | 0.279            | 0.974                | 1.009              | 0.179              | 1.253         | 0.458         | 1.432         | 1.288         | 1.467         |
|               | Top Edge          | 5 | 1.048            | 0.001                | 0.073              | 0.001              | 1.049         | 1.049         | 1.050         | 1.121         | 1.122         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.101            | 0.001                | 0.071              | 0.001              | 0.102         | 0.102         | 0.103         | 0.172         | 0.173         |
|               | Right Edge        | 5 | 0.102            | 0.612                | 0.430              | 0.001              | 0.714         | 0.103         | 0.715         | 0.532         | 0.533         |
| LTE Band 5    | Front Surface     | 5 | 0.202            | 0.001                | 0.060              | 0.001              | 0.203         | 0.203         | 0.204         | 0.262         | 0.263         |
|               | Back Surface      | 5 | 0.479            | 0.974                | 1.009              | 0.179              | 1.453         | 0.658         | 1.632         | 1.488         | 1.667         |
|               | Top Edge          | 5 | 0.001            | 0.001                | 0.073              | 0.001              | 0.002         | 0.002         | 0.003         | 0.074         | 0.075         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.226            | 0.001                | 0.071              | 0.001              | 0.227         | 0.227         | 0.228         | 0.297         | 0.298         |
|               | Right Edge        | 5 | 0.302            | 0.612                | 0.430              | 0.001              | 0.914         | 0.303         | 0.915         | 0.732         | 0.733         |
| LTE Band 7    | Front Surface     | 5 | 0.788            | 0.001                | 0.060              | 0.001              | 0.789         | 0.789         | 0.790         | 0.848         | 0.849         |
|               | Back Surface      | 5 | 0.220            | 0.974                | 1.009              | 0.179              | 1.194         | 0.399         | 1.373         | 1.229         | 1.408         |
|               | Top Edge          | 5 | 0.220            | 0.001                | 0.073              | 0.001              | 0.221         | 0.221         | 0.222         | 0.293         | 0.294         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.351            | 0.001                | 0.071              | 0.001              | 0.352         | 0.352         | 0.353         | 0.422         | 0.423         |
|               | Right Edge        | 5 | 0.087            | 0.612                | 0.430              | 0.001              | 0.699         | 0.088         | 0.700         | 0.517         | 0.518         |
| LTE Band 12   | Front Surface     | 5 | 0.095            | 0.001                | 0.060              | 0.001              | 0.096         | 0.096         | 0.097         | 0.155         | 0.156         |
|               | Back Surface      | 5 | 0.132            | 0.974                | 1.009              | 0.179              | 1.106         | 0.311         | 1.285         | 1.141         | 1.320         |
|               | Top Edge          | 5 | 0.001            | 0.001                | 0.073              | 0.001              | 0.002         | 0.002         | 0.003         | 0.074         | 0.075         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.001            | 0.001                | 0.071              | 0.001              | 0.002         | 0.002         | 0.003         | 0.072         | 0.073         |
|               | Right Edge        | 5 | 0.001            | 0.612                | 0.430              | 0.001              | 0.613         | 0.002         | 0.614         | 0.431         | 0.432         |
| LTE Band 13   | Front Surface     | 5 | 0.078            | 0.001                | 0.060              | 0.001              | 0.079         | 0.079         | 0.080         | 0.138         | 0.139         |
|               | Back Surface      | 5 | 0.402            | 0.974                | 1.009              | 0.179              | 1.376         | 0.581         | 1.555         | 1.411         | 1.590         |
|               | Top Edge          | 5 | 0.001            | 0.001                | 0.073              | 0.001              | 0.002         | 0.002         | 0.003         | 0.074         | 0.075         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.229            | 0.001                | 0.071              | 0.001              | 0.230         | 0.230         | 0.231         | 0.300         | 0.301         |
|               | Right Edge        | 5 | 0.214            | 0.612                | 0.430              | 0.001              | 0.826         | 0.215         | 0.827         | 0.644         | 0.645         |
| LTE Band 17   | Front Surface     | 5 | 0.065            | 0.001                | 0.060              | 0.001              | 0.066         | 0.066         | 0.067         | 0.125         | 0.126         |
|               | Back Surface      | 5 | 0.106            | 0.974                | 1.009              | 0.179              | 1.080         | 0.285         | 1.259         | 1.115         | 1.294         |
|               | Top Edge          | 5 | 0.001            | 0.001                | 0.073              | 0.001              | 0.002         | 0.002         | 0.003         | 0.074         | 0.075         |
|               | Bottom Edge       | 5 | 0.001            | 0.001                | 0.064              | 0.001              | 0.002         | 0.002         | 0.003         | 0.065         | 0.066         |
|               | Left Edge         | 5 | 0.001            | 0.001                | 0.071              | 0.001              | 0.002         | 0.002         | 0.003         | 0.072         | 0.073         |
|               | Right Edge        | 5 | 0.001            | 0.612                | 0.430              | 0.001              | 0.613         | 0.002         | 0.614         | 0.431         | 0.432         |

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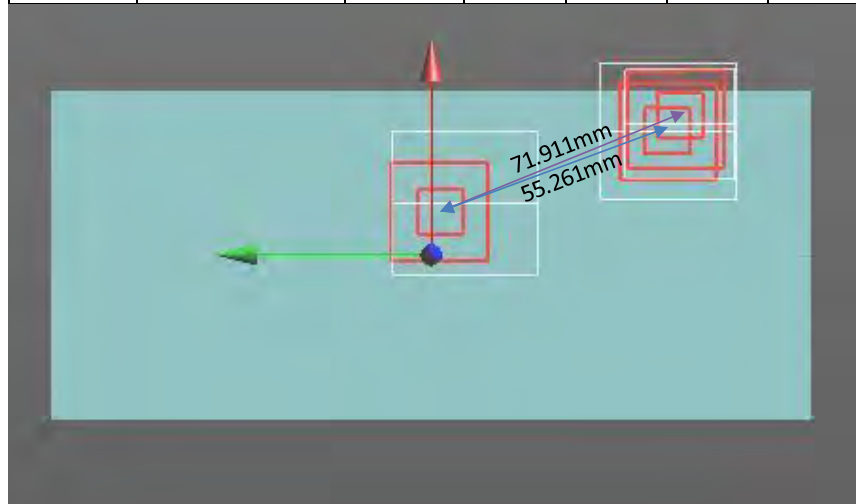
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| Scenario 1: 1+2+6 |              |                  |                  |        |       |                     |                                        |       |                                    |
|-------------------|--------------|------------------|------------------|--------|-------|---------------------|----------------------------------------|-------|------------------------------------|
| Position          | Conditions   | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|                   |              |                  | x                | y      | z     |                     |                                        |       |                                    |
| Bottom Surface    | LTE Band 5   | 0.479            | 1.153            | 0.048  | 0.318 | -                   | -                                      | -     | -                                  |
|                   | WLAN 2.4G+BT | 1.153            | 2.744            | -5.244 | 0.356 | 1.632               | 55.261                                 | 0.038 | SPLSR $\leq$ 0.04, Not required    |



| Scenario 1: 1+4+6 |            |                  |                  |        |       |                     |                                        |       |                                    |
|-------------------|------------|------------------|------------------|--------|-------|---------------------|----------------------------------------|-------|------------------------------------|
| Position          | Conditions | SAR Value (W/kg) | Coordinates (cm) |        |       | $\Sigma$ SAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|                   |            |                  | x                | y      | z     |                     |                                        |       |                                    |
| Bottom Surface    | LTE Band 5 | 0.479            | 1.153            | 0.048  | 0.318 | -                   | -                                      | -     | -                                  |
|                   | WLAN 5G+BT | 1.188            | 2.744            | -5.244 | 0.356 | 1.667               | 55.261                                 | 0.039 | SPLSR $\leq$ 0.04, Not required    |



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#### 7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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## 8 INSTRUMENTS LIST

| Equipment List |                              |                              |               |                          |                          |
|----------------|------------------------------|------------------------------|---------------|--------------------------|--------------------------|
| Manufacturer   | Device                       | Type                         | Serial number | Date of last calibration | Date of next calibration |
| SPEAG          | Data acquisition Electronics | DAE4                         | 547           | Mar/23/2022              | Mar/22/2023              |
| SPEAG          | Dosimetric E-Field Probe     | EX3DV4                       | 3938          | Jan/25/2022              | Jan/24/2023              |
| SPEAG          | System Validation Dipole     | D750V3                       | 1015          | Oct/14/2021              | Oct/13/2022              |
| SPEAG          | System Validation Dipole     | D835V2                       | 4d063         | Oct/18/2021              | Oct/17/2022              |
| SPEAG          | System Validation Dipole     | D1750V2                      | 1008          | Oct/19/2021              | Oct/18/2022              |
| SPEAG          | System Validation Dipole     | D1900V2                      | 5d173         | Apr/28/2022              | Apr/27/2023              |
| SPEAG          | System Validation Dipole     | D2450V2                      | 727           | Apr/25/2022              | Apr/24/2023              |
| SPEAG          | System Validation Dipole     | D2600V2                      | 1005          | Jan/18/2022              | Jan/17/2023              |
| SPEAG          | System Validation Dipole     | D5GHzV2                      | 1023          | Jan/27/2022              | Jan/26/2023              |
| SPEAG          | Dielectric Assessment Kit    | DAKS-3.5                     | 1053          | Feb/28/2022              | Feb/27/2023              |
| Agilent        | MXG Analog Signal Generator  | N5181A                       | MY50144143    | May/19/2022              | May/18/2023              |
| Agilent        | Dual-directional coupler     | 772D                         | MY52180142    | Nov/02/2021              | Nov/01/2022              |
| Agilent        | Dual-directional coupler     | 778D                         | MY52180302    | Oct/29/2021              | Oct/28/2022              |
| EMCI           | Amplifier                    | ZHL-42                       | 980189        | Calibration not required | Calibration not required |
| EMCI           | Amplifier                    | ZVE-8G                       | 980190        | Calibration not required | Calibration not required |
| R&S            | Power Sensor                 | NRP18S                       | 101973        | Jan/22/2022              | Jan/21/2023              |
| R&S            | Power Meter                  | NRX                          | 102191        | Jan/22/2022              | Jan/21/2023              |
| R&S            | Power Sensor                 | NRP18S                       | 101358        | Jan/22/2022              | Jan/21/2023              |
| SPEAG          | Software                     | DASY 52<br>V52.10.4.152<br>7 | N/A           | Calibration not required | Calibration not required |
| SPEAG          | Phantom                      | ELI                          | N/A           | Calibration not required | Calibration not required |
| R&S            | Radio Communication Test     | CMW 500                      | 165070        | Oct/12/2021              | Oct/11/2022              |
| LKM            | Digital thermometer          | DTM3000                      | EC14010603    | Nov/09/2021              | Nov/08/2022              |
| TECPEL         | Digital thermometer          | DTM-303A                     | TP130075      | Oct/28/2021              | Oct/27/2022              |

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## 9 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

| A                                                      | c                         | D                          | e   |           | f       | g        | h=c * f / e             | i=c * g / e             | k           |
|--------------------------------------------------------|---------------------------|----------------------------|-----|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty                                  | Tolerance/<br>Uncertainty | Probability<br>Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard<br>uncertainty | Standard<br>uncertainty | vi, or Veff |
| <b>Measurement system</b>                              |                           |                            |     |           |         |          |                         |                         |             |
| Probe calibration                                      | 6.55%                     | N                          | 1   | 1         | 1       | 1        | 6.55%                   | 6.55%                   | ∞           |
| <i>Isotropy, Axial</i>                                 | 3.50%                     | R                          | √3  | 1.732     | 1       | 1        | 2.02%                   | 2.02%                   | ∞           |
| <i>Isotropy, Hemispherical</i>                         | 9.60%                     | R                          | √3  | 1.732     | 1       | 1        | 5.54%                   | 5.54%                   | ∞           |
| Modulation Response                                    | 2.40%                     | R                          | √3  | 1.732     | 1       | 1        | 1.40%                   | 1.40%                   | ∞           |
| Boundary Effect                                        | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Linearity                                              | 4.70%                     | R                          | √3  | 1.732     | 1       | 1        | 2.71%                   | 2.71%                   | ∞           |
| Detection Limits                                       | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Readout Electronics                                    | 0.30%                     | N                          | 1   | 1         | 1       | 1        | 0.30%                   | 0.30%                   | ∞           |
| Response time                                          | 0.80%                     | R                          | √3  | 1.732     | 1       | 1        | 0.46%                   | 0.46%                   | ∞           |
| Integration Time                                       | 2.60%                     | R                          | √3  | 1.732     | 1       | 1        | 1.50%                   | 1.50%                   | ∞           |
| <b>Measurement drift<br/>(class A evaluation)</b>      | 1.75%                     | R                          | √3  | 1.732     | 1       | 1        | 1.01%                   | 1.01%                   | ∞           |
| RF ambient condition -<br>noise                        | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| RF ambient conditions -<br>reflections                 | 3.00%                     | R                          | √3  | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| Probe positioner<br>Mechanical restrictions            | 0.40%                     | R                          | √3  | 1.732     | 1       | 1        | 0.23%                   | 0.23%                   | ∞           |
| Probe Positioning with<br>respect to phantom shell     | 2.90%                     | R                          | √3  | 1.732     | 1       | 1        | 1.67%                   | 1.67%                   | ∞           |
| Post-processing                                        | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Max SAR Eval                                           | 1.00%                     | R                          | √3  | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| <b>Test Sample related</b>                             |                           |                            |     |           |         |          |                         |                         |             |
| Test sample positioning                                | 2.90%                     | N                          | 1   | 1         | 1       | 1        | 2.90%                   | 2.90%                   | M-1         |
| Device Holder Uncertainty                              | 3.60%                     | N                          | 1   | 1         | 1       | 1        | 3.60%                   | 3.60%                   | M-1         |
| Drift of output power                                  | 5.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.89%                   | 2.89%                   | ∞           |
| <b>Phantom and Setup</b>                               |                           |                            |     |           |         |          |                         |                         |             |
| Phantom Uncertainty                                    | 4.00%                     | R                          | √3  | 1.732     | 1       | 1        | 2.31%                   | 2.31%                   | ∞           |
| Liquid permittivity (mea.)                             | 0.71%                     | N                          | 1   | 1         | 0.64    | 0.43     | 0.45%                   | 0.31%                   | M           |
| Liquid Conductivity (mea.)                             | 0.14%                     | N                          | 1   | 1         | 0.6     | 0.49     | 0.08%                   | 0.07%                   | M           |
| Combined standard<br>uncertainty                       |                           | RSS                        |     |           |         |          | 11.73%                  | 11.71%                  |             |
| Expanded uncertainty (95%<br>confidence interval), K=2 |                           |                            |     |           |         |          | 23.45%                  | 23.42%                  |             |

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

| A                                                     | c                         | D                          | e          |           | f       | g        | h=c * f / e             | i=c * g / e             | k           |
|-------------------------------------------------------|---------------------------|----------------------------|------------|-----------|---------|----------|-------------------------|-------------------------|-------------|
| Source of Uncertainty                                 | Tolerance/<br>Uncertainty | Probability<br>Distributio | Div        | Div Value | ci (1g) | ci (10g) | Standard<br>uncertainty | Standard<br>uncertainty | vi, or Veff |
| <b>Measurement system</b>                             |                           |                            |            |           |         |          |                         |                         |             |
| Probe calibration                                     | 6.00%                     | N                          | 1          | 1         | 1       | 1        | 6.00%                   | 6.00%                   | ∞           |
| <i>Isotropy , Axial</i>                               | 3.50%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.02%                   | 2.02%                   | ∞           |
| <i>Isotropy, Hemispherical</i>                        | 9.60%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 5.54%                   | 5.54%                   | ∞           |
| Modulation Response                                   | 2.40%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.40%                   | 1.40%                   | ∞           |
| Boundary Effect                                       | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Linearity                                             | 4.70%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.71%                   | 2.71%                   | ∞           |
| Detection Limits                                      | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Readout Electronics                                   | 0.30%                     | N                          | 1          | 1         | 1       | 1        | 0.30%                   | 0.30%                   | ∞           |
| Response time                                         | 0.80%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.46%                   | 0.46%                   | ∞           |
| Integration Time                                      | 2.60%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.50%                   | 1.50%                   | ∞           |
| <b>Measurement drift<br/>(class A evaluation)</b>     | 1.75%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.01%                   | 1.01%                   | ∞           |
| RF ambient condition -<br>noise                       | 3.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| RF ambient conditions -<br>reflections                | 3.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.73%                   | 1.73%                   | ∞           |
| Probe positioner<br>Mechanical restrictions           | 0.40%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.23%                   | 0.23%                   | ∞           |
| Probe Positioning with<br>respect to phantom shell    | 2.90%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 1.67%                   | 1.67%                   | ∞           |
| Post-processing                                       | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| Max SAR Eval                                          | 1.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 0.58%                   | 0.58%                   | ∞           |
| <b>Test Sample related</b>                            |                           |                            |            |           |         |          |                         |                         |             |
| Test sample positioning                               | 2.90%                     | N                          | 1          | 1         | 1       | 1        | 2.90%                   | 2.90%                   | M-1         |
| Device Holder Uncertainty                             | 3.60%                     | N                          | 1          | 1         | 1       | 1        | 3.60%                   | 3.60%                   | M-1         |
| Drift of output power                                 | 5.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.89%                   | 2.89%                   | ∞           |
| <b>Phantom and Setup</b>                              |                           |                            |            |           |         |          |                         |                         |             |
| Phantom Uncertainty                                   | 4.00%                     | R                          | $\sqrt{3}$ | 1.732     | 1       | 1        | 2.31%                   | 2.31%                   | ∞           |
| Liquid permittivity (mea.)                            | 0.59%                     | N                          | 1          | 1         | 0.64    | 0.43     | 0.38%                   | 0.25%                   | M           |
| Liquid Conductivity (mea.)                            | 1.59%                     | N                          | 1          | 1         | 0.6     | 0.49     | 0.95%                   | 0.78%                   | M           |
| Combined standard<br>uncertainty                      |                           | RSS                        |            |           |         |          | 11.46%                  | 11.44%                  |             |
| Expanct uncertainty (95%<br>confidence interval), K=2 |                           |                            |            |           |         |          | 22.93%                  | 22.87%                  |             |

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## 10 SAR MEASUREMENT RESULTS

Date: 2022/9/10

ID: 001

Report No. : TESA2207000221E5

WCDMA Band II\_Body\_Front Surface\_CH 9400\_5mm

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 39.767$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.92, 7.92, 7.92); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.41 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.531 V/m; Power Drift = 0.03 dB

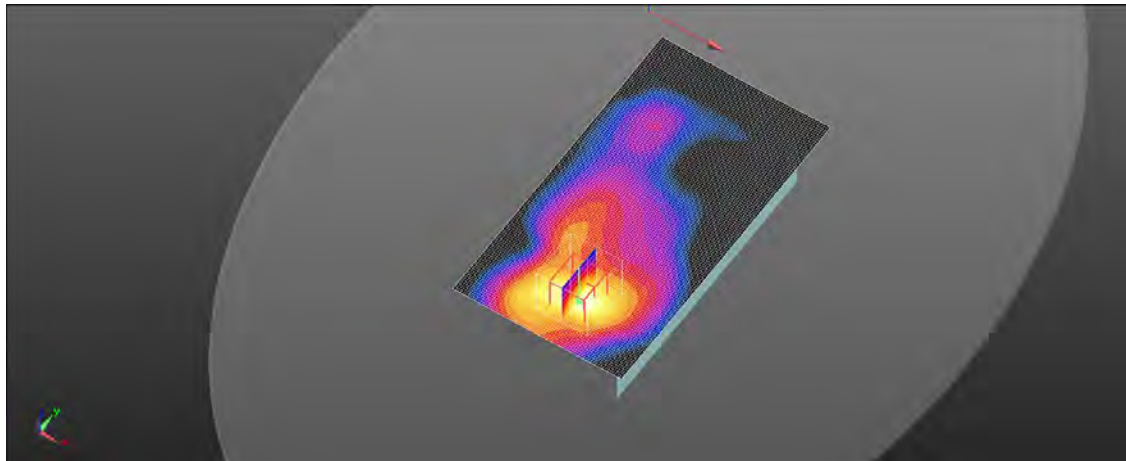
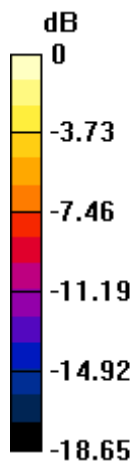
Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 0.976 W/kg; SAR(10 g) = 0.500 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.41 W/kg = 1.48 dBW/kg

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Date: 2022/9/10

ID: 002

Report No. : TESA2207000221E5

WCDMA Band IV\_Body\_Top Edge\_CH 1513\_5mm

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1752.6 \text{ MHz}$ ;  $\sigma = 1.383 \text{ S/m}$ ;  $\epsilon_r = 39.841$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.09 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 7.269 V/m; Power Drift = 0.02 dB

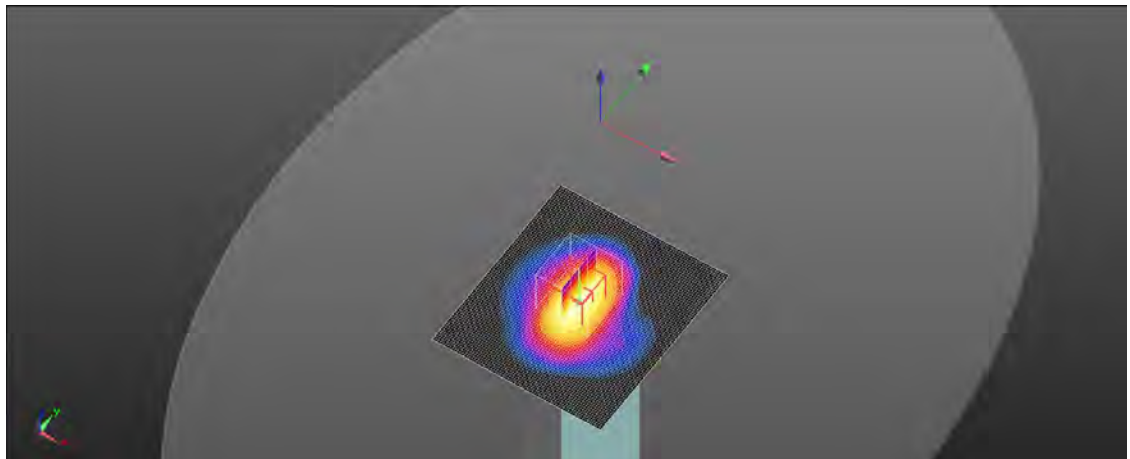
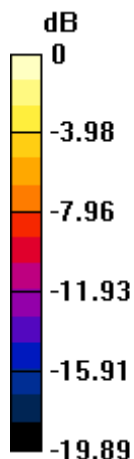
Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.488 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.8%

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.01 dBW/kg

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Date: 2022/9/9

ID: 003

Report No. : TESA2207000221E5

WCDMA Band V\_Body\_Back Surface\_CH 4132\_5mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 41.354$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.29, 9.29, 9.29); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.42 V/m; Power Drift = -0.02 dB

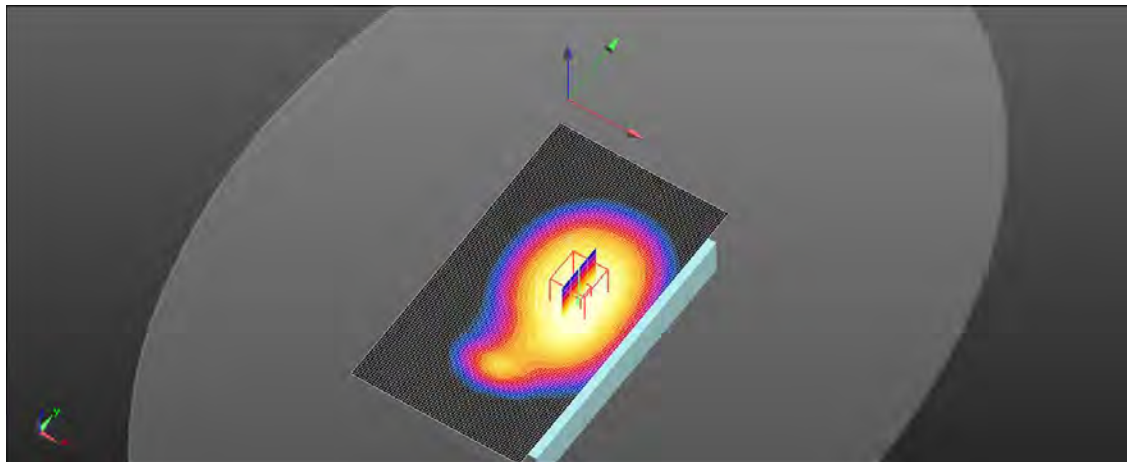
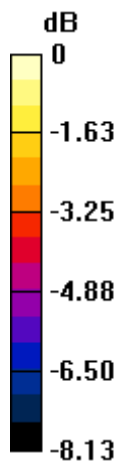
Peak SAR (extrapolated) = 0.469 W/kg

**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.286 W/kg**

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 79.4%

Maximum value of SAR (measured) = 0.428 W/kg



0 dB = 0.428 W/kg = -3.68 dBW/kg

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Date: 2022/9/10

ID: 004

Report No. : TESA2207000221E5

LTE Band 2 (20MHz)\_Body\_Top Edge\_CH 18700\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 39.767$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.92, 7.92, 7.92); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.12 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.33 V/m; Power Drift = 0.04 dB

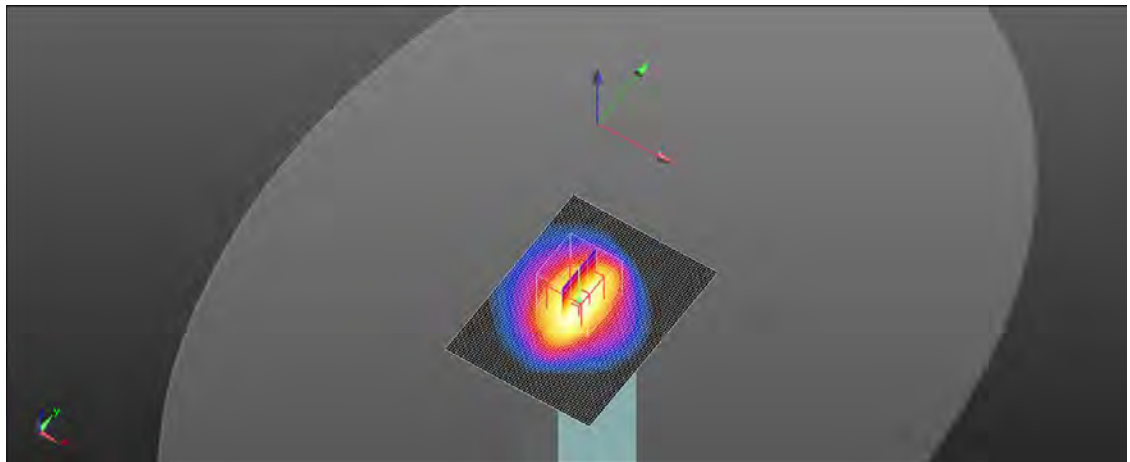
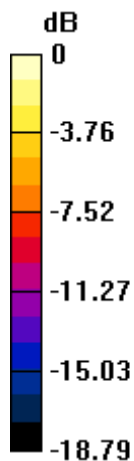
Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.802 W/kg; SAR(10 g) = 0.442 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.31 dBW/kg

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Date: 2022/9/10

ID: 005

Report No. : TESA2207000221E5

LTE Band 4 (20MHz)\_Body\_Top Edge\_CH 20300\_1-99\_QPSK\_5mm

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745 \text{ MHz}$ ;  $\sigma = 1.378 \text{ S/m}$ ;  $\epsilon_r = 39.854$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x81x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.16 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 7.575 V/m; Power Drift = 0.03 dB

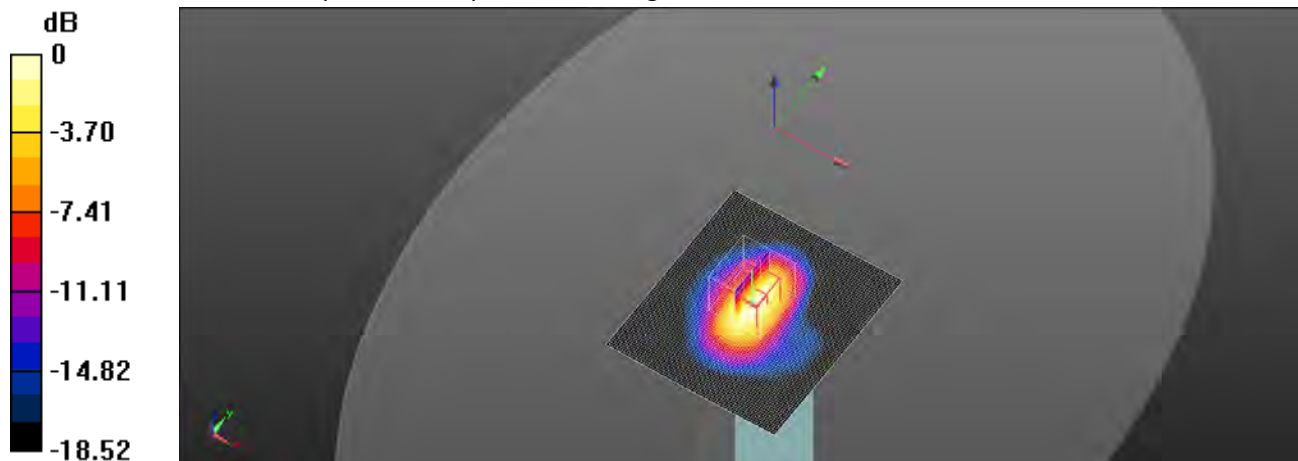
Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.947 W/kg; SAR(10 g) = 0.495 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 2022/9/9

ID: 006

Report No. : TESA2207000221E5

LTE Band 5 (10MHz)\_Body\_Back Surface\_CH 20600\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.908 \text{ S/m}$ ;  $\epsilon_r = 41.289$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.29, 9.29, 9.29); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.464 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 22.78 V/m; Power Drift = -0.02 dB

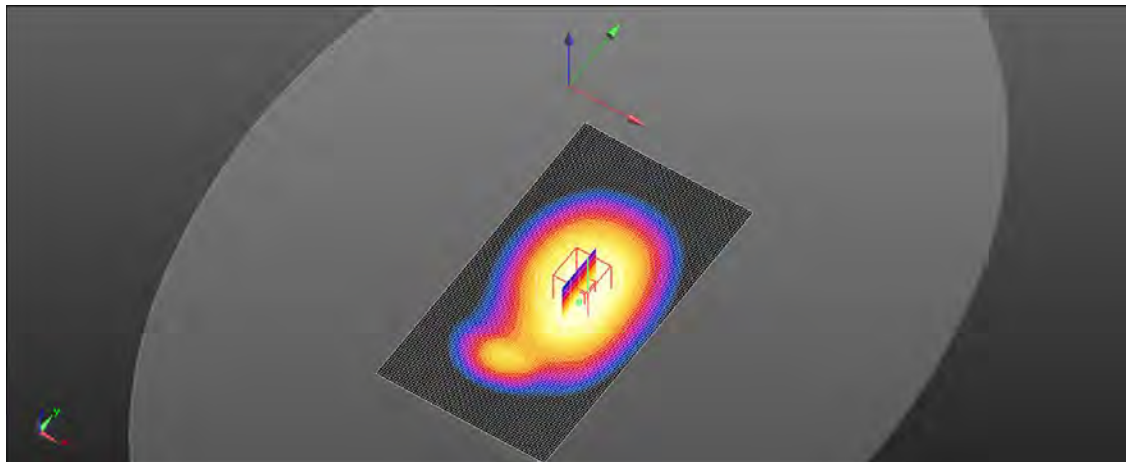
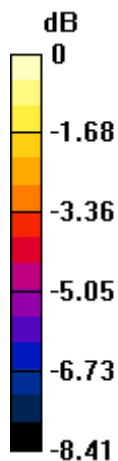
Peak SAR (extrapolated) = 0.497 W/kg

**SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.308 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 80.4%

Maximum value of SAR (measured) = 0.457 W/kg



0 dB = 0.457 W/kg = -3.40 dBW/kg

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Date: 2022/9/11

ID: 007

Report No. : TESA2207000221E5

LTE Band 7 (20MHz)\_Body\_Front Surface\_CH 21100\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.903$  S/m;  $\epsilon_r = 38.859$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.15, 7.15, 7.15); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x161x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.832 W/kg

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

Reference Value = 5.819 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.310 W/kg**

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 57%

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

**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.819 V/m; Power Drift = 0.03 dB

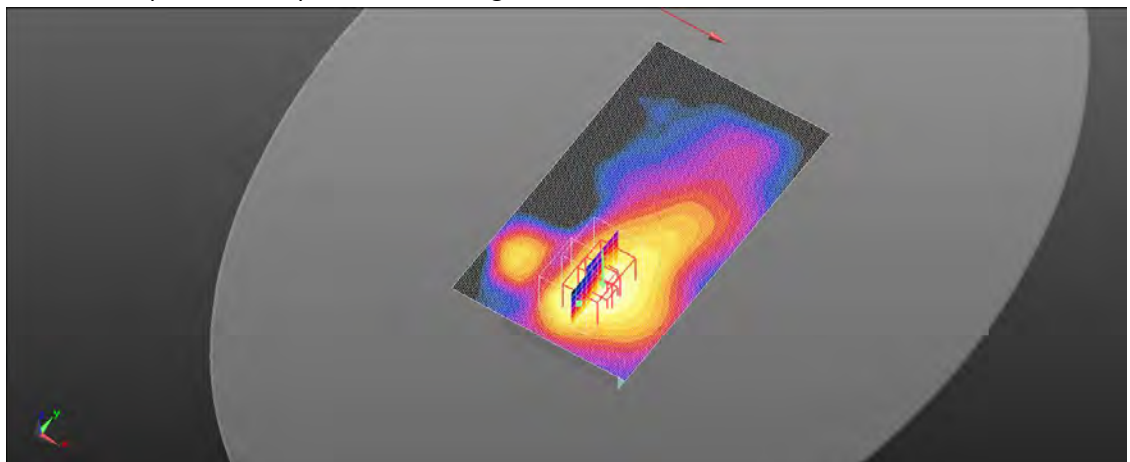
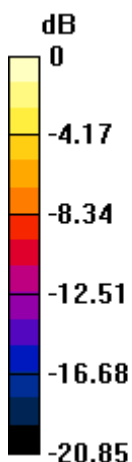
Peak SAR (extrapolated) = 0.936 W/kg

**SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.237 W/kg**

Smallest distance from peaks to all points 3 dB below = 13.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.3%

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



0 dB = 0.748 W/kg = -1.26 dBW/kg

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Date: 2022/9/9

ID: 008

Report No. : TESA2207000221E5

LTE Band 12 (10MHz)\_Body\_Back Surface\_CH 23060\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 704 \text{ MHz}$ ;  $\sigma = 0.885 \text{ S/m}$ ;  $\epsilon_r = 41.948$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.128 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 4.085 V/m; Power Drift = -0.03 dB

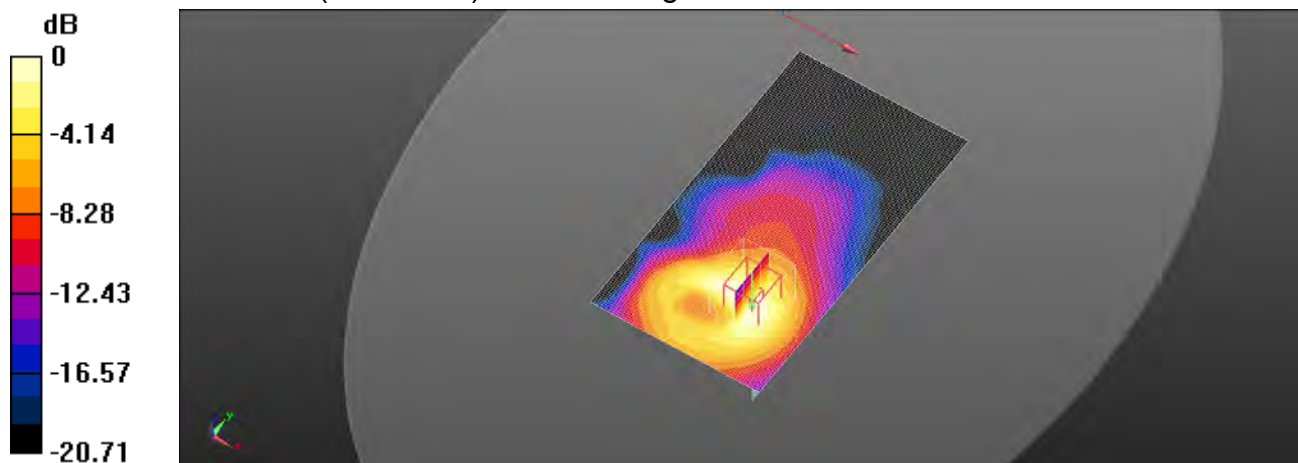
Peak SAR (extrapolated) = 0.167 W/kg

**SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.053 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

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



0 dB = 0.131 W/kg = -8.82 dBW/kg

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Date: 2022/9/9

ID: 009

Report No. : TESA2207000221E5

LTE Band 13 (10MHz)\_Body\_Back Surface\_CH 23230\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.891 \text{ S/m}$ ;  $\epsilon_r = 41.542$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.381 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 21.18 V/m; Power Drift = 0.03 dB

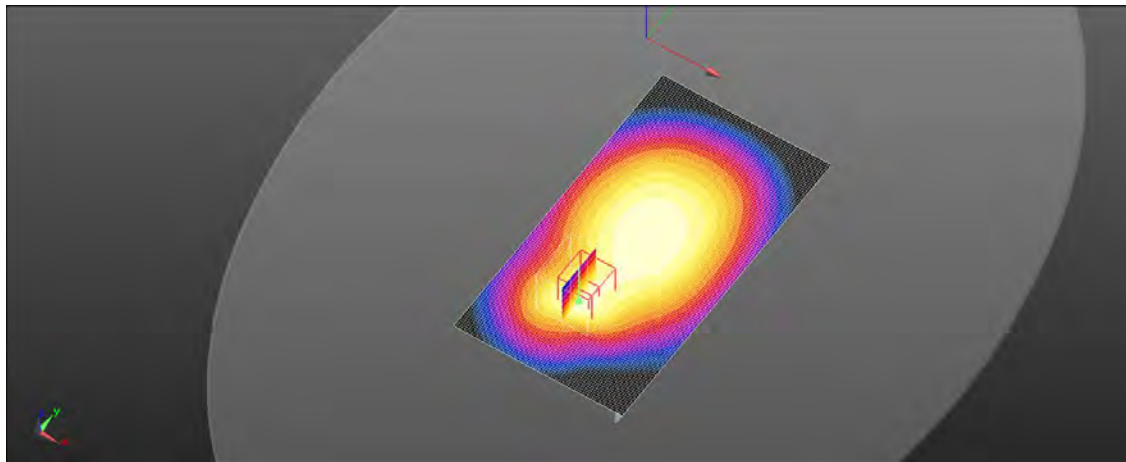
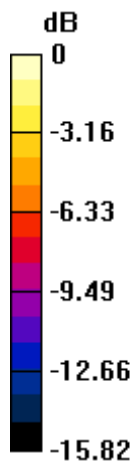
Peak SAR (extrapolated) = 0.471 W/kg

**SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.192 W/kg**

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.1%

Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.388 W/kg = -4.11 dBW/kg

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Date: 2022/9/9

ID: 010

Report No. : TESA2207000221E5

LTE Band 17 (10MHz)\_Body\_Back Surface\_CH 23790\_QPSK\_1-0\_5mm

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.886 \text{ S/m}$ ;  $\epsilon_r = 41.916$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (71x131x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.0881 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 4.537 V/m; Power Drift = 0.04 dB

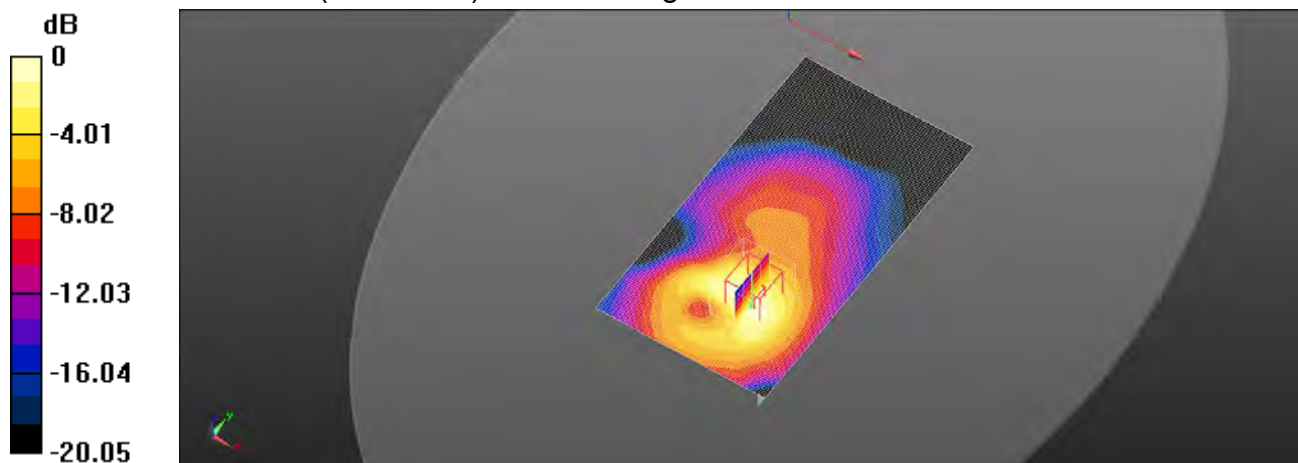
Peak SAR (extrapolated) = 0.132 W/kg

**SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.041 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 0.102 W/kg



0 dB = 0.102 W/kg = -9.93 dBW/kg

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Date: 2022/9/11

ID: 011

Report No. : TESA2207000221E5

WLAN 802.11b\_Body\_Back Surface\_CH 6\_5mm\_Ant 1

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:01

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 38.990$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x161x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.42 W/kg

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

Reference Value = 3.415 V/m; Power Drift = 0.04 dB

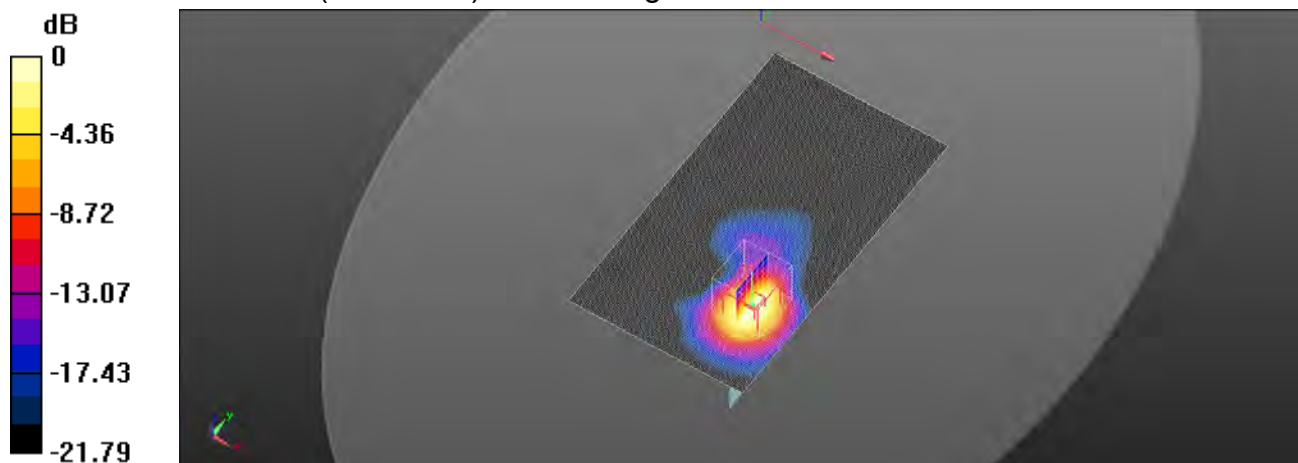
Peak SAR (extrapolated) = 1.89 W/kg

**SAR(1 g) = 0.950 W/kg; SAR(10 g) = 0.433 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.53 dBW/kg

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Date: 2022/9/11

ID: 012

Report No. : TESA2207000221E5

Bluetooth(GFSK)\_Body\_Back Surface\_CH 0 \_5mm\_Ant 1

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:30

Medium parameters used:  $f = 2402$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 39.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

## DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x171x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.183 W/kg

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

Reference Value = 0.8840 V/m; Power Drift = 0.01 dB

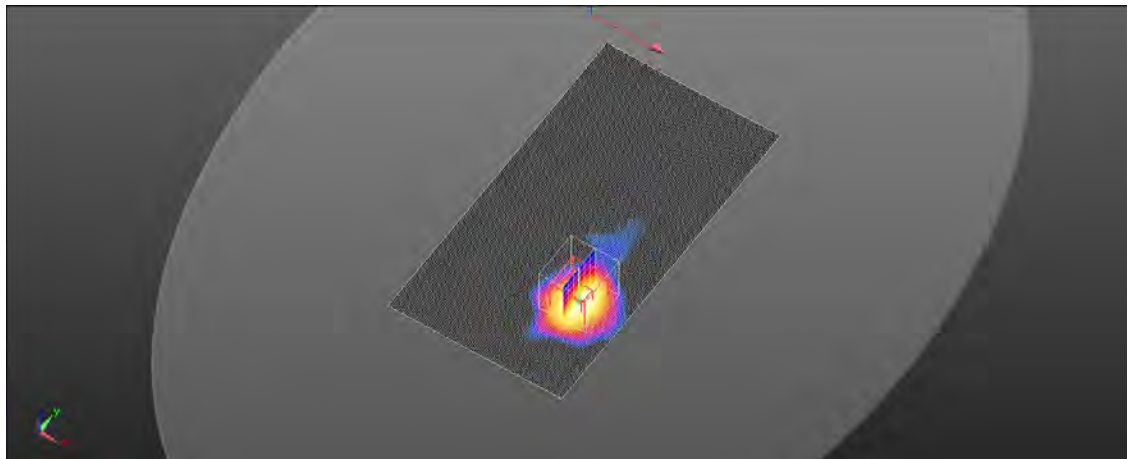
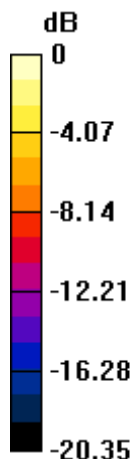
Peak SAR (extrapolated) = 0.244 W/kg

**SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.052 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 0.183 W/kg



0 dB = 0.183 W/kg = -7.37 dBW/kg

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Date: 2022/9/12

ID: 013

Report No. : TESA2207000221E5

WLAN 802.11a 5.2G\_Body\_Back Surface\_CH 48\_5mm\_Ant 1

Communication System: WLAN; Frequency: 5240 MHz; Duty Cycle: 1:04

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.695 \text{ S/m}$ ;  $\epsilon_r = 35.707$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (111x201x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.81 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 0.3460 V/m; Power Drift = -0.02 dB

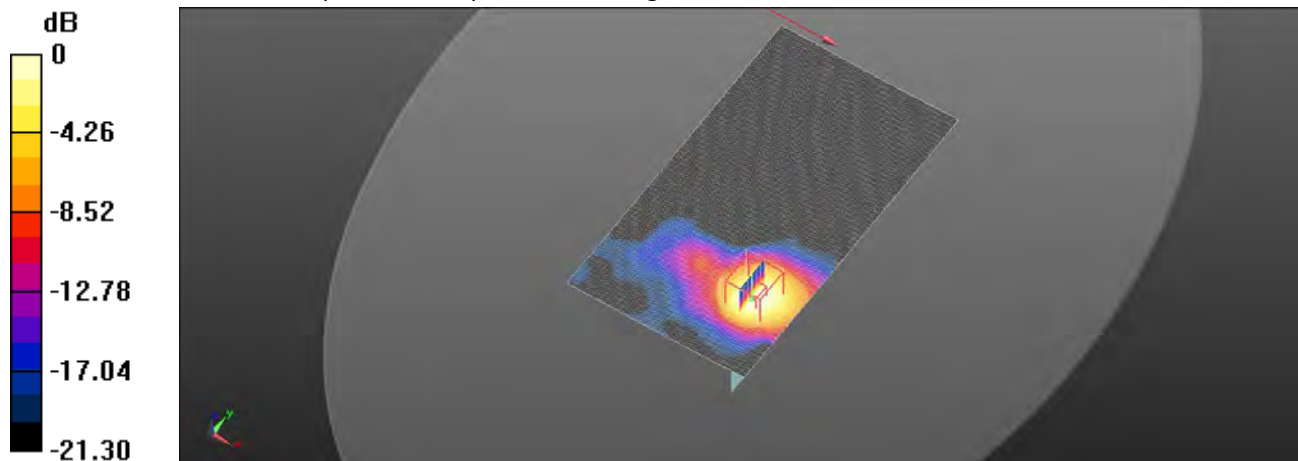
Peak SAR (extrapolated) = 2.65 W/kg

**SAR(1 g) = 0.871 W/kg; SAR(10 g) = 0.337 W/kg**

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 61%

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.56 W/kg = 1.94 dBW/kg

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Date: 2022/9/12

ID: 014

Report No. : TESA2207000221E5

WLAN 802.11a 5.8G\_Body\_Back Surface\_CH 157\_5mm\_Ant 1

Communication System: WLAN; Frequency: 5785 MHz; Duty Cycle: 1:04

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.084$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1719; Calibrated: 2022/3/25
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (111x201x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

Maximum value of SAR (interpolated) = 1.51 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 1.851 V/m; Power Drift = 0.01 dB

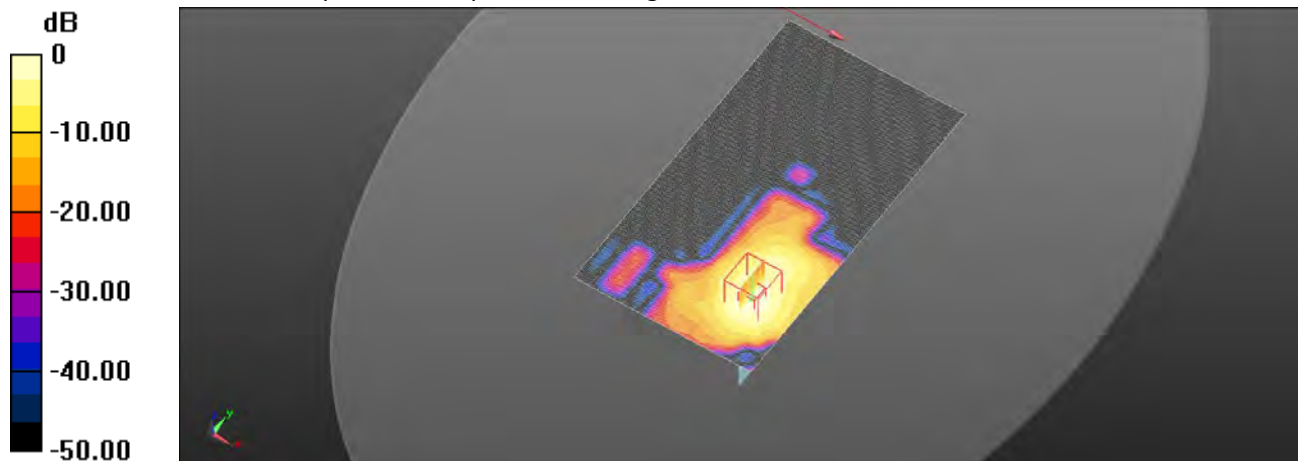
Peak SAR (extrapolated) = 3.10 W/kg

**SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.295 W/kg**

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

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## 11 SAR SYSTEM CHECK RESULTS

Date: 2022/9/9

Report No. : TESA2207000221E5

Dipole 750 MHz\_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.888 \text{ S/m}$ ;  $\epsilon_r = 41.709$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (51x71x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.69 W/kg

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

Reference Value = 52.50 V/m; Power Drift = 0.03 dB

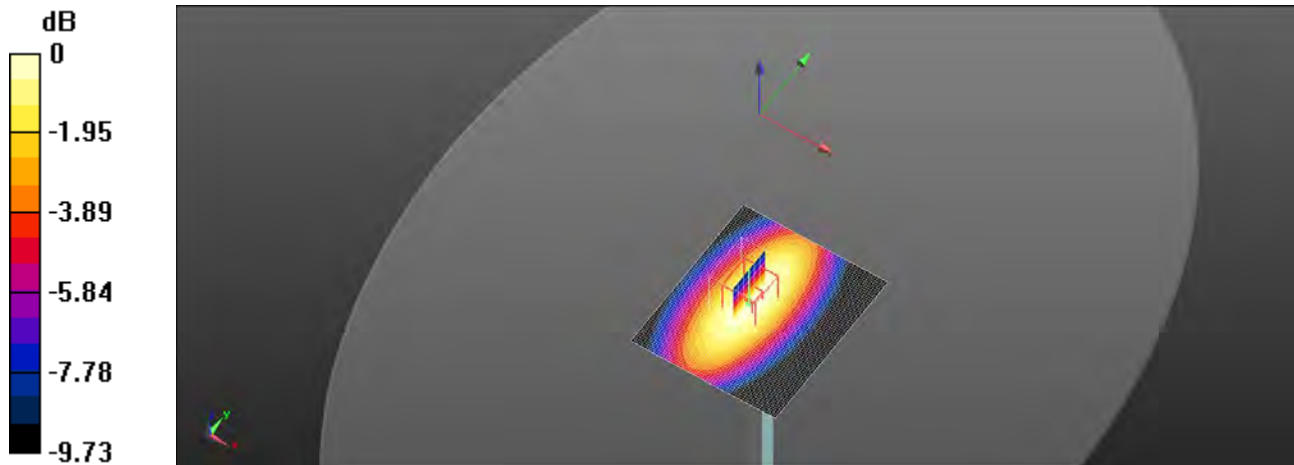
Peak SAR (extrapolated) = 3.17 W/kg

**SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.42 W/kg**

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 2.73 W/kg



0 dB = 2.73 W/kg = 4.37 dBW/kg

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Date: 2022/9/9

**Report No. : TESA2207000221E5****Dipole 835 MHz\_SN:4d063**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.905 \text{ S/m}$ ;  $\epsilon_r = 41.322$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.29, 9.29, 9.29); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x71x1):** Interpolated grid:  $dx=15 \text{ mm}$ ,  $dy=15 \text{ mm}$ 

Maximum value of SAR (interpolated) = 2.91 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 55.54 V/m; Power Drift = 0.02 dB

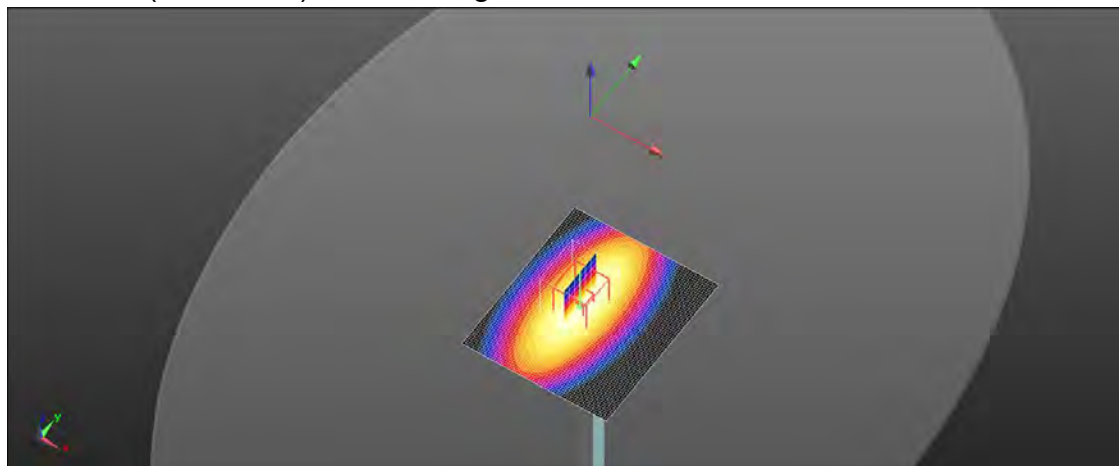
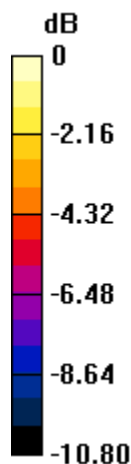
Peak SAR (extrapolated) = 3.50 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg**

Smallest distance from peaks to all points 3 dB below = 21.2 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.72 dBW/kg

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Date: 2022/9/10

**Report No. : TESA2207000221E5****Dipole 1750 MHz\_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.381$  S/m;  $\epsilon_r = 39.846$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x101x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

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

Reference Value = 95.89 V/m; Power Drift = 0.01 dB

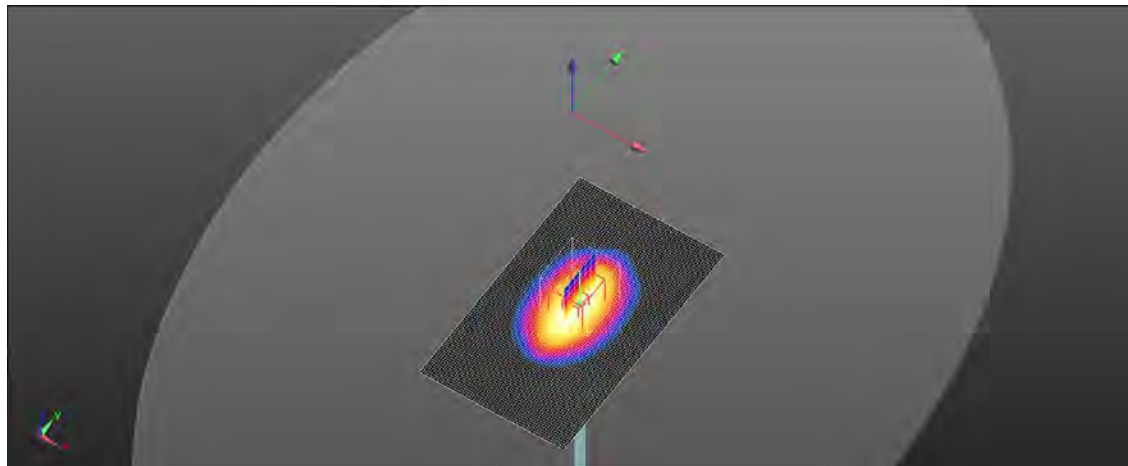
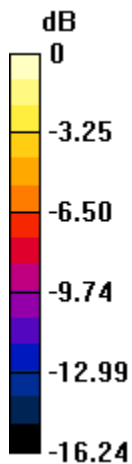
Peak SAR (extrapolated) = 15.6 W/kg

**SAR(1 g) = 8.94 W/kg; SAR(10 g) = 4.88 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

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Date: 2022/9/10

**Report No. : TESA2207000221E5****Dipole 1900 MHz\_SN:5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.414$  S/m;  $\epsilon_r = 39.767$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.92, 7.92, 7.92); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

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

Reference Value = 98.61 V/m; Power Drift = 0.01 dB

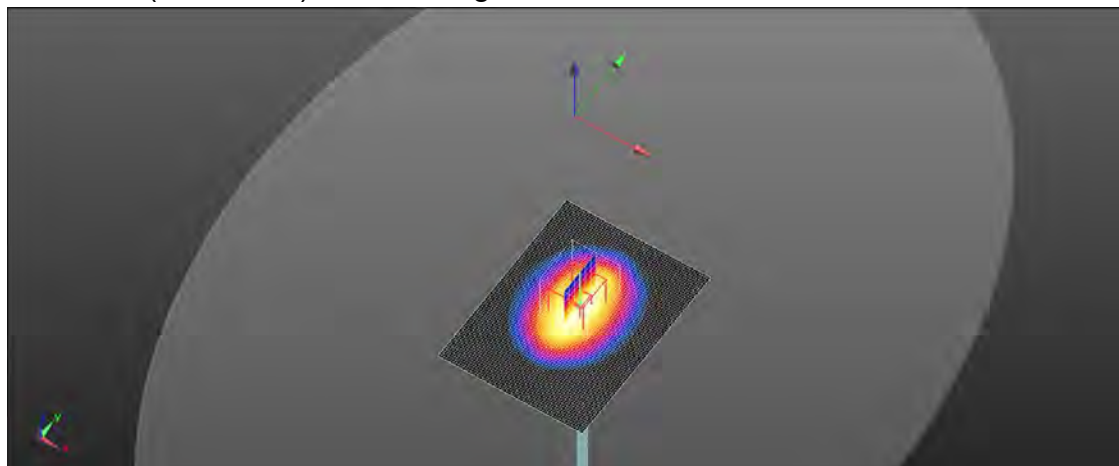
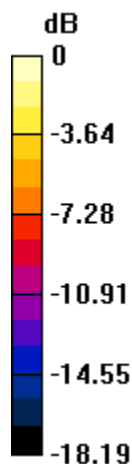
Peak SAR (extrapolated) = 19.2 W/kg

**SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.28 W/kg**

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 53%

Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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Date: 2022/9/11

Report No. : TESA2207000221E5

Dipole 2450 MHz\_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 1.827 \text{ S/m}$ ;  $\epsilon_r = 38.967$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid:  $dx=12 \text{ mm}$ ,  $dy=12 \text{ mm}$ 

Maximum value of SAR (interpolated) = 20.6 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 99.01 V/m; Power Drift = 0.01 dB

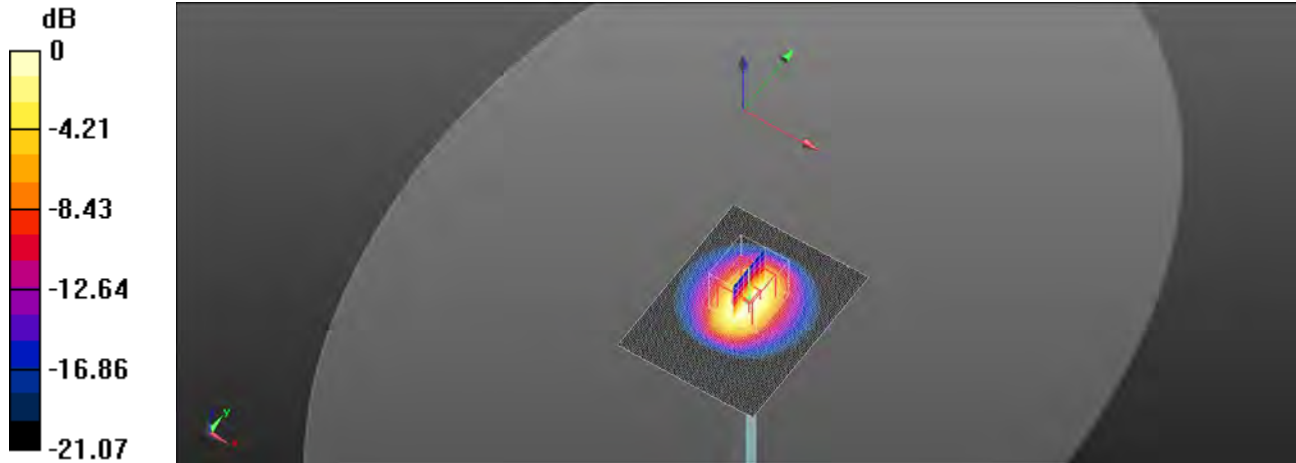
Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.35 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

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Date: 2022/9/11

**Report No. : TESA2207000221E5****Dipole 2600 MHz\_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.963$  S/m;  $\epsilon_r = 38.776$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.15, 7.15, 7.15); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (91x111x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.8 W/kg

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

Reference Value = 97.31 V/m; Power Drift = 0.04 dB

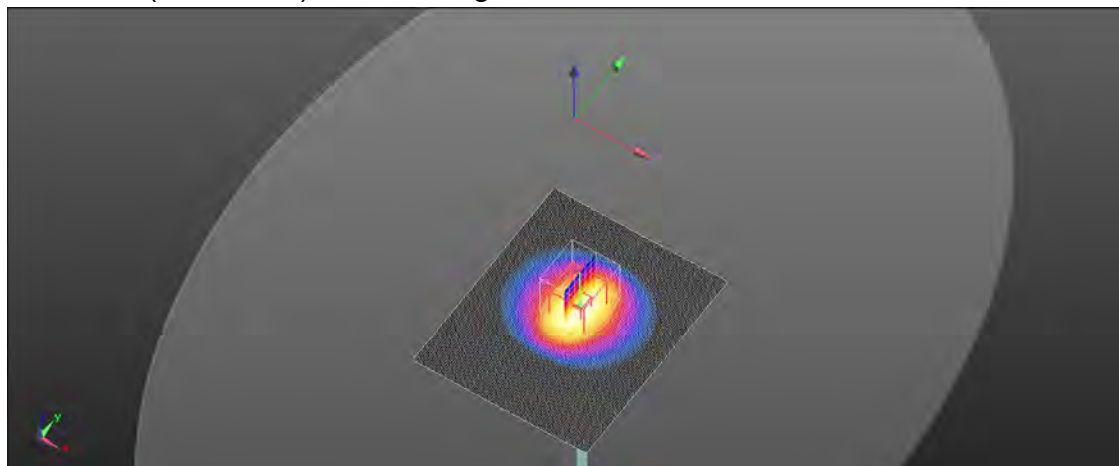
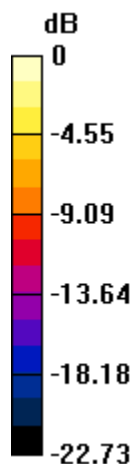
Peak SAR (extrapolated) = 29.3 W/kg

**SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.49 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.35 dBW/kg

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Date: 2022/9/12

Report No. : TESA2207000221E5

Dipole 5250 MHz\_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 35.696$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.7 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.52 V/m; Power Drift = 0.03 dB

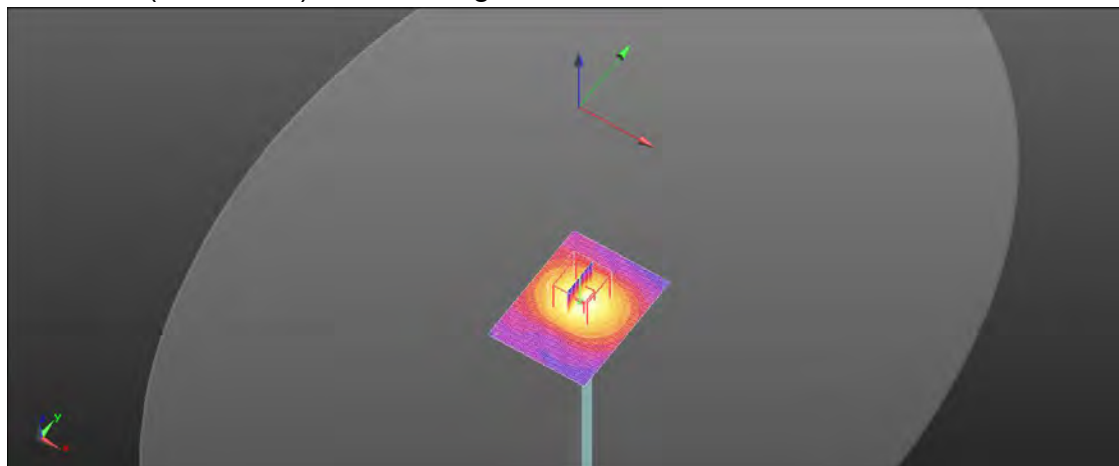
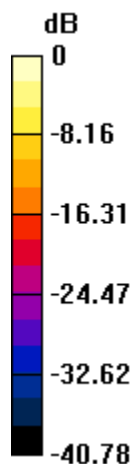
Peak SAR (extrapolated) = 32.0 W/kg

**SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.41 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 16.6 W/kg



0 dB = 16.6 W/kg = 12.21 dBW/kg

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Date: 2022/9/12

**Report No. : TESA2207000221E5****Dipole 5750 MHz\_SN:1023**

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 5.218 \text{ S/m}$ ;  $\epsilon_r = 35.124$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Area Scan (81x101x1):** Interpolated grid:  $dx=10 \text{ mm}$ ,  $dy=10 \text{ mm}$ 

Maximum value of SAR (interpolated) = 17.2 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 43.11 V/m; Power Drift = 0.02 dB

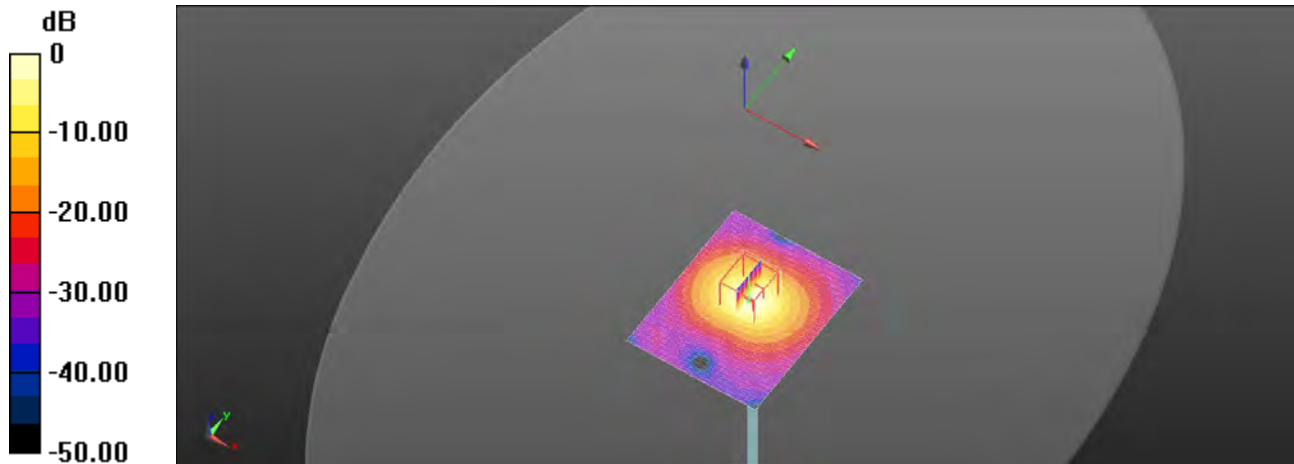
Peak SAR (extrapolated) = 35.3 W/kg

**SAR(1 g) = 8 W/kg; SAR(10 g) = 2.26 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg = 12.28 dBW/kg

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## 12 APPENDIXES

**Refer to separated files for the following appendixes.**

**12.1 SAR\_Appendix A Photographs**

**12.2 SAR\_Appendix B DAE & Probe Cal. Certificate**

**12.3 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate**

**- End of report -**

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