

Panasonic Corporation of North America

SAR TEST REPORT

SCOPE OF WORK:

SAR report for FCC

Model:

EYADA112WA, EYADA112WB,
EYADA212WA, EYADA212WB,
EYADA218WA, EYADA218WB,
EYADA407WA, EYADA407WB

REPORT NUMBER

230700847SHA-003

ISSUE DATE

December 21, 2023

DOCUMENT CONTROL NUMBER

TTRFFCCSAR_V1
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APPLICANT: Panasonic Corporation of North America
Two Riverfront Plaza, NEWARK NJ 07102

MANUFACTURER: Panasonic Corporation
1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan

Factory: Panasonic Corporation
1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan

FCC ID: ACJ-EYADA

Summary

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR § 2.1093: Radio frequency Radiation Exposure Evaluation: Portable Device

IEC/IEEE 62209-1528: Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

FCC KDB Publication 865664 D01: SAR measurement 100 MHz to 6 GHz v01r04 describes SAR measurement procedures for devices operating between 100 MHz to 6 GHz;

PREPARED BY: **REVIEWED BY:**



Project Engineer
Damon Ding



Reviewer
Eric Li

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Revision History

| Report No. | Version | Description | Issued Date |
|------------------|---------|-------------------------|-------------------|
| 230700847SHA-003 | Rev. 01 | Initial issue of report | December 21, 2023 |

SAR Summary

Highest Standalone SAR Summary

| Exposure Position | FrequencyBand | Measured SAR-1g 1g-SAR(W/kg) | Highest Scaled 1g-SAR(W/kg) |
|--------------------------|---------------|---------------------------------|--------------------------------|
| Body-supported (0mm Gap) | WIFI 2.4G | 0.0843 | 0.219 |
| Body-supported (0mm Gap) | WIFI 5.2G | 0.393 | 0.539 |

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

| | |
|----------------------|---|
| Product name | : Screwdriver |
| Type/Model | : EYADA112WA, EYADA112WB, EYADA212WA, EYADA212WB, EYADA218WA, EYADA218WB, EYADA407WA, EYADA407WB |
| Description of EUT | : The EUT is Screwdriver with WLAN function, There are eight models. Details refer to model list. We tested all of models and put the worst test data into this report. 8 model codes of EYADA** all have same wireless communication features for WLAN. The difference between model codes are RPM, Torque, and availability of Torque value output. RPM and Torque are achieved by difference of mechanical components |
| Exposure Category | : Population/Uncontrolled |
| Rating | : 30V,90W Adapter: Input : 100-240Vac , 50/60Hz , 2.6A Max ; Output : 30Vdc, 3A |
| Hardware version | : / |
| Software version | : / |
| Sample received date | : October 24, 2023 |
| Date of test | : October 30, 2023 ~ November 08, 2023 |

Model list:

| Product No. | RPM | Torque | *Torque value output |
|-------------|------|-----------|----------------------|
| EYADA112WA | 1200 | 0,1-1,0Nm | Available |
| EYADA112WB | | | N/A |
| EYADA212WA | | 0,3-2,5Nm | Available |
| EYADA212WB | | | N/A |
| EYADA218WA | 1800 | 0,3-2,0Nm | Available |
| EYADA218WB | | | N/A |
| EYADA407WA | 650 | 1,5-4,4Nm | Available |
| EYADA407WB | | | N/A |

*With Torque value output function, recording the torque value of each fastened screw is possible.

1.2 RF Technical Information

| | | |
|----------------|---|--|
| Supported Band | : | WIFI 2.4GHz: 2400-2483.5MHz WIFI 5.2GHz: 5150-5250MHz |
| Tested Band | : | WIFI 2.4GHz: 2400-2483.5MHz WIFI 5.2GHz: 5150-5250MHz |
| Modulation | : | WIFI(OFDM/DSSS) |

| Wireless Technology and Frequency Range | | | | |
|---|------------|------------------|-------------|-------------|
| Wireless Technology | Modulation | Operating mode | Tx (MHz) | Rx (MHz) |
| Wi-Fi 2.4G | DSSS, OFDM | 802.11b/g/n-HT20 | 2412 ~ 2462 | 2412 ~ 2462 |
| Wi-Fi 5.2G | OFDM | 802.11a/n-HT20 | 5180 ~ 5240 | 5180 ~ 5240 |

Does this device support 2.4G/5.2G MIMO? Yes No

1.3 Description of Test Facility

| | | |
|-----------|---|--|
| Name | : | Intertek Testing Services Shanghai |
| Address | : | No.999 Gaolang East Road, WuXi, Jiangsu, P.R.China |
| Telephone | : | 86 21 61278200 |
| Telefax | : | 86 21 54262353 |

| | | |
|--|---|---|
| The test facility is recognized, certified, or accredited by these organizations | : | FCC Accredited Lab Designation Number: CN0175 IC Registration Lab CAB identifier.: CN0014 A2LA Accreditation Lab Certificate Number: 3309.02 |
|--|---|---|

Tests were sub-contracted.

| | | |
|-----------|---|---|
| Name | : | Shenzhen UnionTrust Quality and Technology Co., Ltd. |
| Address | : | Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park, Longhua District, Shenzhen, China |
| Telephone | : | +86 (0) 755 2823 0888 |
| Telefax | : | +86 (0) 755 2823 0886 |

| | | |
|--|---|--|
| The test facility is recognized, certified, or accredited by these organizations | : | CNAS Accreditation Lab Registration No. CNAS L9069 FCC Accredited Lab Designation Number: CN1194 A2LA Accreditation Lab Certificate Number: 4312.01 |
|--|---|--|

1.4 Instrument list

| Equipment | Manufacturer | Type | Internal no. | Due Date |
|------------------------------|---|---------|--------------|---------------|
| System Validation Dipole | SPEAG | D2450V2 | 1014 | May 19, 2021 |
| System Validation Dipole | SPEAG | D5GHzV2 | 1280 | May. 17, 2021 |
| Dosimetric E-Field Probe | SPEAG | ES3DV3 | 3090 | Mar. 15, 2023 |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 7506 | Jun. 29, 2023 |
| Data Acquisition Electronics | SPEAG | DAE4 | 662 | Mar. 08, 2023 |
| ENA Series Network Analyzer | Agilent | 8753ES | US39170317 | Oct. 31, 2023 |
| Dielectric Assessment Kit | SPEAG | DAK-3.5 | 1056 | N/A |
| USB/GPIB Interface | Agilent | 82357B | N10149 | N/A |
| Signal Generator | R&S | SMB100A | 103718 | Apr. 14, 2023 |
| POWER METER | R&S | NRP | 101293 | Oct. 27, 2023 |
| Thermometer | Shanghai Gao Zhi Precision Instrument Co., Ltd. | HB6801 | 18022507 | Oct. 30, 2023 |
| Dual Directional Coupler | Agilent | 778D | MY52180234 | Oct. 27, 2023 |
| Amplifier | Mini-Circuit | ZHL42 | QA1252001 | Apr. 15, 2023 |
| DC Source | Agilent | 66319B | MY43000795 | Oct. 31, 2023 |

2 Measurement Uncertainty

| Source of Uncertainty | Tolerance (± %) | Probability Distribution | Divisor | Ci (1g) | Ci (10g) | Standard Uncertainty (1g) (± %) | Standard Uncertainty (10g) (± %) | Vi Veff |
|---|-----------------|--------------------------|---------|---------|----------|---------------------------------|----------------------------------|---------|
| Measurement System | | | | | | | | |
| Probe Calibration (< 3 GHz) | 7.5 | N (k=2) | 2 | 1 | 1 | 3.75 | 3.75 | ∞ |
| Probe Calibration (> 3 GHz) | 6.3 | N (k=2) | 2 | 1 | 1 | 3.15 | 3.15 | ∞ |
| Axial Isotropy | 1.2 | N (k=2) | 2 | 0.7 | 0.7 | 0.42 | 0.42 | ∞ |
| Hemispherical Isotropy | 3.2 | N (k=2) | 2 | 0.7 | 0.7 | 1.12 | 1.12 | ∞ |
| Boundary Effects | 2 | Rectangular | √3 | 1 | 1 | 1.15 | 1.15 | ∞ |
| Linearity | 0.9 | N (k=2) | 2 | 1 | 1 | 0.45 | 0.45 | ∞ |
| Detection Limits | 0.25 | Rectangular | √3 | 1 | 1 | 0.14 | 0.14 | ∞ |
| Modulation Response | 2.4 | Rectangular | √3 | 1 | 1 | 1.39 | 1.39 | ∞ |
| Readout Electronics | 0.3 | Normal | 1 | 1 | 1 | 0.30 | 0.30 | ∞ |
| Response Time | 0 | Rectangular | √3 | 1 | 1 | 0.00 | 0.00 | ∞ |
| Integration Time | 1.7 | Rectangular | √3 | 1 | 1 | 0.98 | 0.98 | ∞ |
| RF Ambient – Noise | 3 | Rectangular | √3 | 1 | 1 | 1.73 | 1.73 | ∞ |
| RF Ambient – Reflections | 3 | Rectangular | √3 | 1 | 1 | 1.73 | 1.73 | ∞ |
| Probe Positioner | 0.4 | Rectangular | √3 | 1 | 1 | 0.23 | 0.23 | ∞ |
| Probe Positioning | 6.7 | Rectangular | √3 | 1 | 1 | 3.87 | 3.87 | ∞ |
| Max. SAR Evaluation | 4 | Rectangular | √3 | 1 | 1 | 2.31 | 2.31 | ∞ |
| Test Sample Related | | | | | | | | |
| Device Positioning | 2.3 / 2.4 | Normal | 1 | 1 | 1 | 2.30 | 2.40 | 30 |
| Device Holder | 2.8 / 2.8 | Normal | 1 | 1 | 1 | 2.80 | 2.80 | 30 |
| Power Drift | 5 | Rectangular | √3 | 1 | 1 | 2.89 | 2.89 | ∞ |
| Power Scaling | 0 | Rectangular | √3 | 1 | 1 | 0.00 | 0.00 | ∞ |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty | 7.9 | Rectangular | √3 | 1 | 1 | 4.56 | 4.56 | ∞ |
| SAR correction | 1.2 / 0.97 | Rectangular | √3 | 1 | 0.84 | 0.69 | 0.47 | ∞ |
| Liquid Conductivity (Meas.) | 2.5 | Rectangular | √3 | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid Permittivity (Meas.) | 2.5 | Rectangular | √3 | 0.26 | 0.26 | 0.38 | 0.38 | ∞ |
| Temp. unc. - Conductivity | 3.4 | Rectangular | √3 | 0.78 | 0.71 | 1.53 | 1.39 | ∞ |
| Temp. unc. - Permittivity | 0.4 | Rectangular | √3 | 0.23 | 0.26 | 0.05 | 0.06 | ∞ |
| Combined Standard Uncertainty (k = 1) (≤ 3 GHz) | | | | | | 9.64 | 9.62 | |
| Combined Standard Uncertainty (k = 1) (> 3 GHz) | | | | | | 9.42 | 9.40 | |
| Max. Expanded Uncertainty (k = 2) | | | | | | 19.27 | 19.23 | |

3 Tissue Dielectric Parameter Measurements

3.1 Target for Tissue Dielectric Parameter

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Recommended Dielectric Performance of Tissue

| Ingredients (% by weight) | Frequency (MHz) | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|------|-------|-------|-------|------|------|------|-------|-------|
| | 450 | | 835 | | 915 | | 1900 | | 2450 | | 2600 | |
| Tissue Type | Head | Body | Head | Body | Head | Body | Head | Body | Head | Body | Head | Body |
| Water | 38.56 | 51.16 | 41.46 | 52.4 | 41.05 | 56.0 | 54.9 | 40.4 | 62.7 | 73.2 | 55.24 | 64.49 |
| Salt (Nacl) | 3.95 | 1.49 | 1.45 | 1.4 | 1.35 | 0.76 | 0.18 | 0.5 | 0.5 | 0.04 | 0.5 | 0.024 |
| Sugar | 56.32 | 46.78 | 56.0 | 45.0 | 56.5 | 41.76 | 0.0 | 58.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| HEC | 0.98 | 0.52 | 1.0 | 1.0 | 1.0 | 1.21 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bactericide | 0.19 | 0.05 | 0.1 | 0.1 | 0.1 | 0.27 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Triton x-100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.8 | 0.0 | 44.45 | 32.25 |
| DGBE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.92 | 0.0 | 0.0 | 26.7 | 0.0 | 26.7 |
| Dielectric Constant | 43.42 | 58.0 | 42.54 | 56.1 | 42.0 | 56.8 | 39.9 | 54.0 | 39.2 | 52.5 | 39.0 | 52.5 |
| Conductivity (s/m) | 0.85 | 0.83 | 0.91 | 0.95 | 1.0 | 1.07 | 1.42 | 1.45 | 1.80 | 1.78 | 1.96 | 2.16 |

| Frequency: 5200/5400/5600/5800MHz | |
|-----------------------------------|---------------|
| Ingredients | (% by weight) |
| Water | 78 |
| Mineral oil | 11 |
| Emulsifiers | 9 |
| Additives and Salt | 2 |

Target Tissue Dielectric Parameters

| Frequency (MHz) | Head Tissue | |
|-----------------|--------------|---------------|
| | ϵ_r | $\sigma(S/m)$ |
| 750 | 41.9 | 0.89 |
| 835 | 41.5 | 0.90 |
| 1750 | 40.1 | 1.37 |
| 1900 | 40.0 | 1.40 |
| 2000 | 40.0 | 1.40 |
| 2300 | 39.5 | 1.67 |
| 2450 | 39.2 | 1.80 |
| 2600 | 39.0 | 1.96 |
| 5250 | 35.9 | 4.71 |
| 5600 | 35.5 | 5.07 |
| 5750 | 35.4 | 5.22 |

3.2 Verification results

| Frequency (MHz) | Test Date | Temp °C | Measured Dielectric Parameters | | Target Dielectric Parameters | | Limit (Within ±5%) | |
|-----------------|---------------|---------|--------------------------------|----------------|------------------------------|----------------|----------------------|------------------|
| | | | ϵ_r | σ (s/m) | ϵ_r | σ (s/m) | Dev ϵ_r (%) | Dev σ (%) |
| 2450 | Oct. 31, 2023 | 21.6 | 39.440 | 1.832 | 39.20 | 1.80 | 0.61 | 1.78 |
| 5250 | Nov. 07, 2023 | 21.5 | 35.930 | 4.706 | 35.93 | 4.71 | 0.00 | -0.08 |

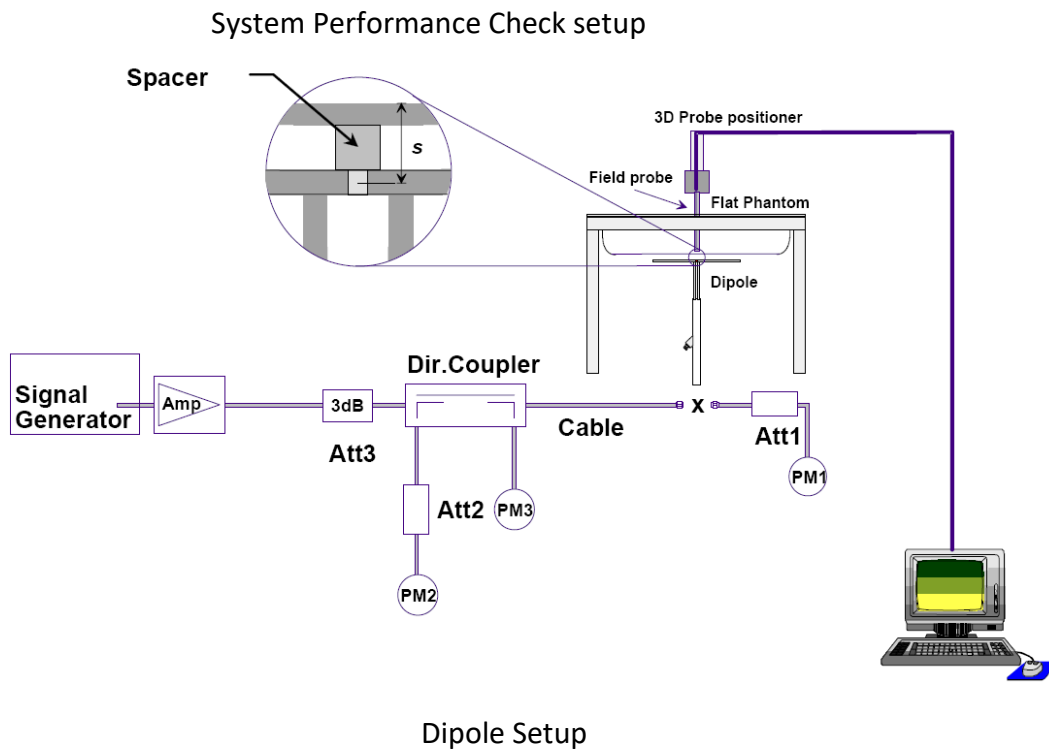
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.

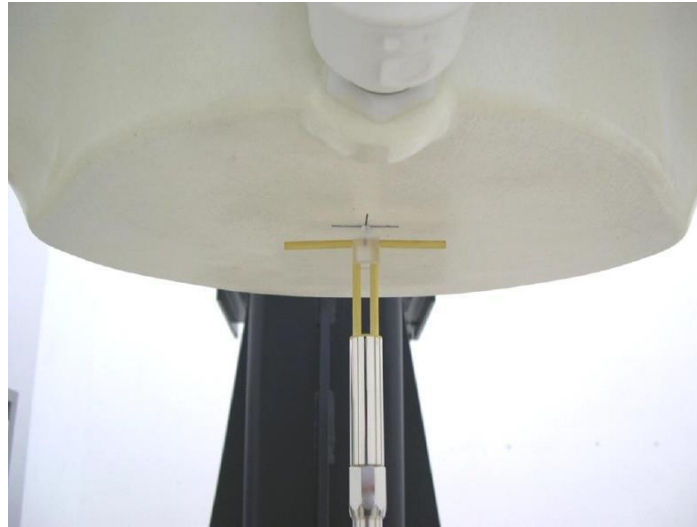
4 System Verification

4.1 System Performance Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASYS system.





Target Tissue Dielectric Parameters

| Frequency (MHz) | Head Tissue | |
|-----------------|--------------------------|---------------------------|
| | Target SAR _{1g} | Target SAR _{10g} |
| 835 | 9.64 | 6.27 |
| 1750 | 35.7 | 18.8 |
| 1900 | 39.8 | 20.2 |
| 2100 | 42.9 | 21.1 |
| 2300 | 48.4 | 22.8 |
| 2450 | 52.0 | 23.8 |
| 2600 | 57.6 | 25.5 |
| 5250 | 77.6 | 22.2 |
| 5600 | 80.0 | 22.8 |
| 5750 | 77.3 | 21.8 |

4.2 System Performance Check Result

| Frequency (MHz) | Test Date | Temp °C | Measured SAR _{1g} | 1W Normalized SAR _{1g} (W/kg) | 1W Target SAR _{1g} (W/kg) | Limit (±10%) |
|-----------------|---------------|---------|----------------------------|--|------------------------------------|--------------|
| 2450 | Oct. 31, 2023 | 21.7 | 12.500 | 50.00 | 51.80 | -3.47 |
| 5250 | Nov. 07, 2023 | 21.7 | 7.820 | 78.20 | 79.20 | -1.26 |

Note : Target Values used derive from the calibration certificate Data Storage and Evaluation.

4.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCHn), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

| Sub-test | β_c | β_d | β_d (SF) | β_c / β_d | β_{hs} | CM/dB |
|----------|-----------|-----------|----------------|---------------------|--------------|-------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 |
| 2 | 12/15 | 15/15 | 64 | 12/15 | 24/25 | 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 |

For Release 6 HSPA Data Devices

| Sub-test | β_c | β_d | β_d (SF) | β_c / β_d | β_{hs} | β_{ec} | β_{ed} | β_{ed} (SF) | β_{ed} (codes) | CM (dB) | MPR (dB) | AG Index | E-TPCI |
|----------|-----------|-----------|----------------|---------------------|--------------|--------------|--|-------------------|----------------------|---------|----------|----------|--------|
| 1 | 11/15 | 15/15 | 64 | 11/15 | 22/15 | 209/225 | 1039/225 | 4 | 1 | 1.5 | 1.5 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 12/15 | 4 | 1 | 1.5 | 1.5 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$ | 4 | 2 | 1.5 | 1.5 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 4/15 | 56/75 | 4 | 1 | 1.5 | 1.5 | 17 | 71 |
| 5 | 15/15 | 15/15 | 64 | 15/15 | 24/15 | 30/15 | 134/15 | 4 | 1 | 1.5 | 1.5 | 21 | 81 |

Rel.8 DC-HSDPA (Cat 24)

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

4.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator. Closed loop power control was used so the UE transmits with maximum output power during SAR testing.

All powers were measured with the base station simulator.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 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.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) 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 1) and 2) are ≤ 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.

TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

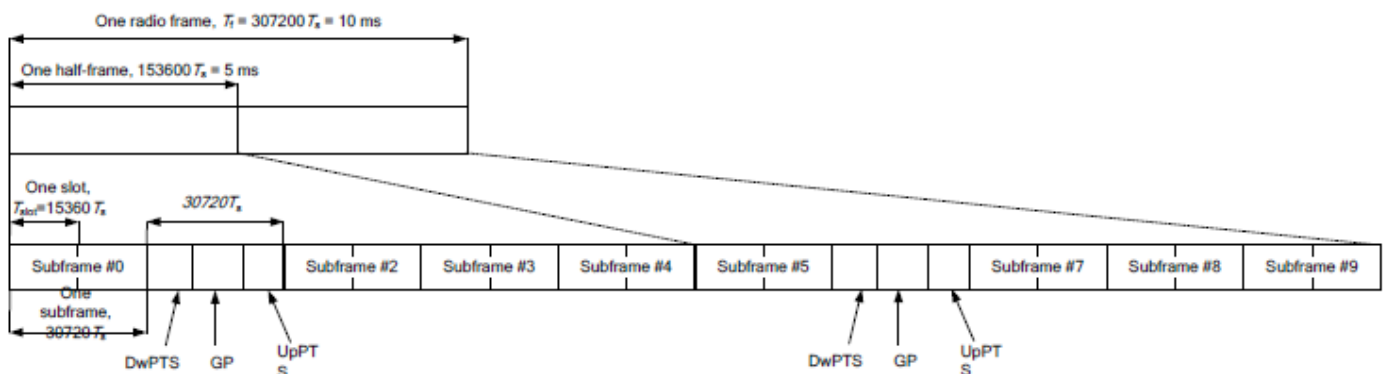


Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)

Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

TEST REPORT

| Special subframe configuration | 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 | $6592 \cdot T_s$ | $2192 \cdot T_s$ | $2560 \cdot T_s$ | $7680 \cdot T_s$ | $2192 \cdot T_s$ | $2560 \cdot T_s$ |
| 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 | $26336 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ | $7680 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ |
| 5 | $6592 \cdot T_s$ | | | $20480 \cdot T_s$ | | |
| 6 | $19760 \cdot T_s$ | | | $23040 \cdot T_s$ | | |
| 7 | $21952 \cdot T_s$ | | | $12800 \cdot T_s$ | | |
| 8 | $24144 \cdot T_s$ | | | - | | |
| 9 | $13168 \cdot T_s$ | - | - | - | - | - |

Uplink-downlink configurations

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

Duty factor is calculated by:

$$\text{Duty factor} = \text{uplink frame} \cdot 6 + \text{UpPTS} \cdot 2 / \text{one frame length}$$

$$= (30720 \cdot T_s \cdot 6 + 5120 \cdot T_s \cdot 2) / 307200 \cdot T_s$$

$$= 0.633$$

4.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable. Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

4.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position.

This ensures that the power drift during one measurement is within 5%.

5 Measurement Procedures

5.1 RF exposure Limit

| Human Exposure | Uncontrolled Environment General Population |
|--|--|
| Spatial Peak SAR* (Brain/Body) | 1.60 mW/g |
| Spatial Average SAR** (Whole Body) | 0.08 mW/g |
| Spatial Peak SAR*** (Limbs) | 4.00 mW/g |

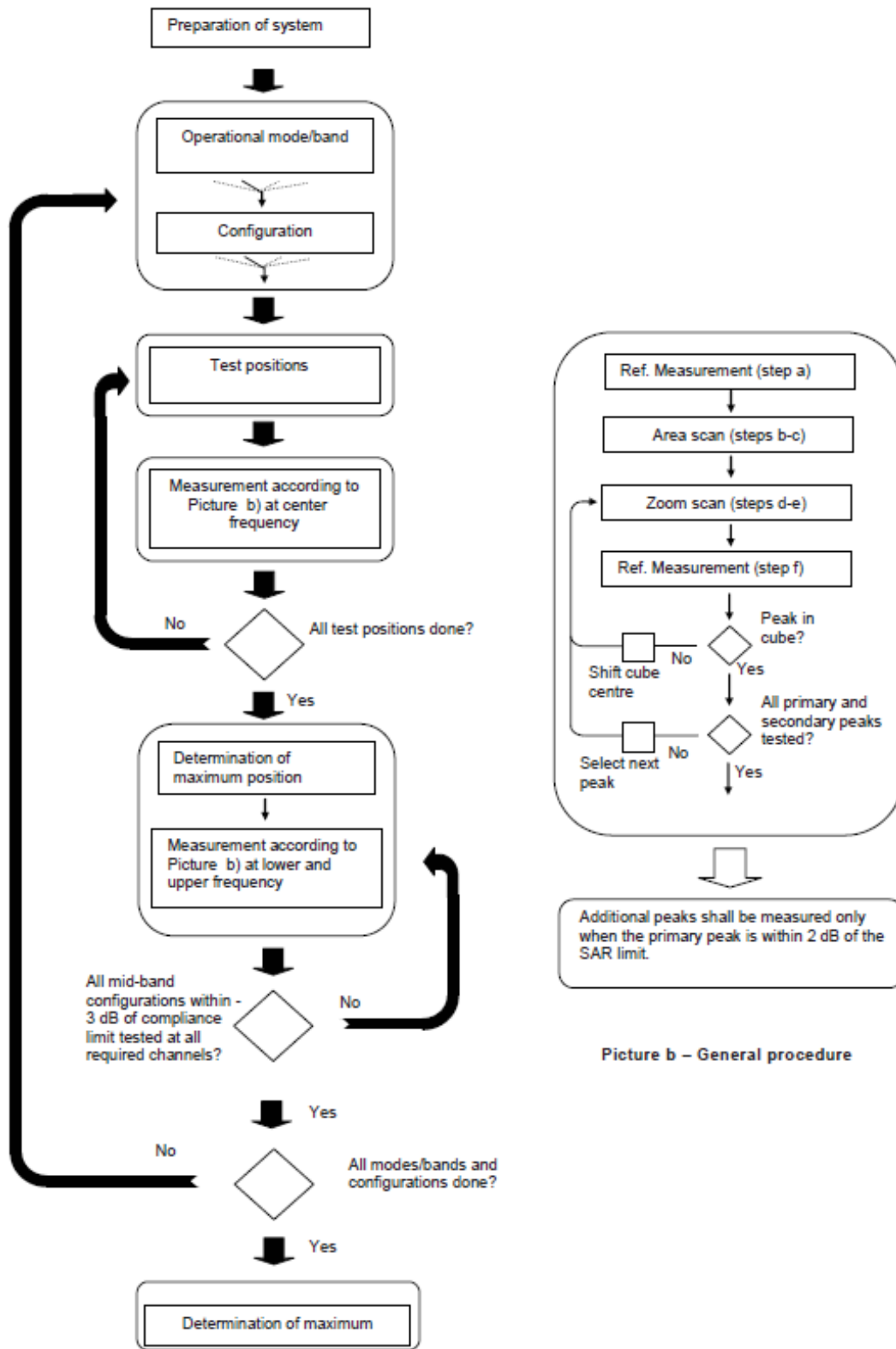
Note: 1. The limit applied in this test report is shown in bold letter;

2. * The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time;

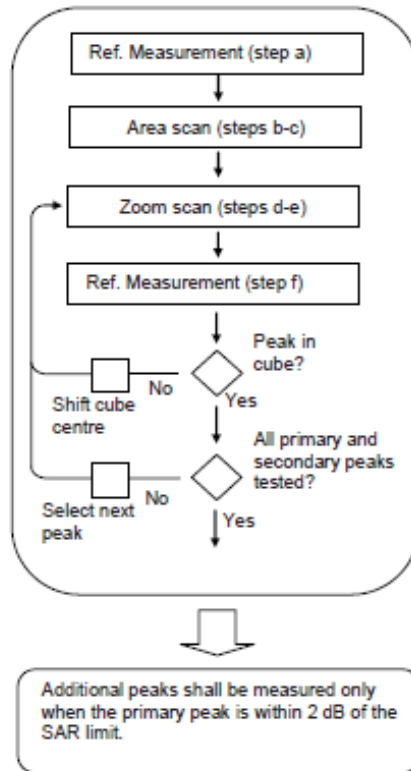
3. ** The Spatial Average value of the SAR averaged over the whole body;

4. *** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time;

5.2 Block Diagram of Test Setup



Picture a – Tests to be performed



Picture b – General procedure

Additional peaks shall be measured only when the primary peak is within 2 dB of the SAR limit.

5.3 Test Conditions and Test Method

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

| | | ≤ 3 GHz | > 3 GHz |
|---|---|--|---|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | | 5 ± 1 mm | $\frac{1}{4} \cdot 5 \ln(2) \pm 0.5$ mm |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location | | $30^\circ \pm 1^\circ$ | $20^\circ \pm 1^\circ$ |
| Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$ | | ≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm | 3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm |
| | | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device. | |
| Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$ | | ≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm* | 3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm* |
| Maximum zoom scan spatial resolution, normal to phantom surface | uniform grid: $\Delta z_{Zoom}(n)$ | ≤ 5 mm | 3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm |
| | graded grid $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface | ≤ 4 mm | 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm |
| | $\Delta z_{Zoom}(n>1)$: between subsequent points | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ | |
| Minimum zoom scan volume | x, y, z | ≥ 30 mm | 3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm |
| Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. | | | |
| * When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. | | | |

6 Conducted RF Output Power

6.1 GSM Measurement result

| GSM850 | | Measured Power (dBm) | | | Division Factors | Averaged Power (dBm) | | |
|-------------|------------|----------------------|-------|-------|------------------|----------------------|-------|-------|
| | | 128CH | 190CH | 251CH | | 28CH | 190CH | 251CH |
| GSM (CS) | | / | / | / | / | / | / | / |
| GPRS (GMSK) | 1 Tx Slot | / | / | / | / | / | / | / |
| | 2 Tx Slots | / | / | / | / | / | / | / |
| | 3 Tx Slots | / | / | / | / | / | / | / |
| | 4 Tx Slots | / | / | / | / | / | / | / |
| EDGE (8PSK) | 1 Tx Slot | / | / | / | / | / | / | / |
| | 2 Tx Slots | / | / | / | / | / | / | / |
| | 3 Tx Slots | / | / | / | / | / | / | / |
| | 4 Tx Slots | / | / | / | / | / | / | / |
| GSM1900 | | Measured Power (dBm) | | | Division Factors | Averaged Power (dBm) | | |
| | | 512CH | 661CH | 810CH | | 512CH | 661CH | 810CH |
| GSM (CS) | | / | / | / | / | / | / | / |
| GPRS (GMSK) | 1 Tx Slot | / | / | / | / | / | / | / |
| | 2 Tx Slots | / | / | / | / | / | / | / |
| | 3 Tx Slots | / | / | / | / | / | / | / |
| | 4 Tx Slots | / | / | / | / | / | / | / |
| EDGE (8PSK) | 1 Tx Slot | / | / | / | / | / | / | / |
| | 2 Tx Slots | / | / | / | / | / | / | / |
| | 3 Tx Slots | / | / | / | / | / | / | / |
| | 4 Tx Slots | / | / | / | / | / | / | / |

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

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

9.03dB

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

6.02dB

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

4.26dB

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

3.01dB

6.2 WCDMA Conducted output Power

| Item | band | WCDMA 850 | | | WCDMA 1900 | | |
|-------|--------------|-----------|------|------|------------|------|------|
| | Frequency | 4132 | 4183 | 4233 | 9262 | 9400 | 9538 |
| | Subtest | dBm | | | dBm | | |
| WCDMA | RMC 12.2Kbps | / | / | / | / | / | / |
| HSDPA | 1 | / | / | / | / | / | / |
| | 2 | / | / | / | / | / | / |
| | 3 | / | / | / | / | / | / |
| | 4 | / | / | / | / | / | / |
| HSUPA | 1 | / | / | / | / | / | / |
| | 2 | / | / | / | / | / | / |
| | 3 | / | / | / | / | / | / |
| | 4 | / | / | / | / | / | / |
| | 5 | / | / | / | / | / | / |

Note: WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive .HSPA SAR was not requires since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

6.3 LTE Conducted peak output Power

| Modulation | Channel bandwidth / Transmission bandwidth configuration [RB] | | | | | | MPR (dB) |
|------------|---|-----|-----|------|------|------|----------|
| | 1.4 | 3 | 5 | 10 | 15 | 20 | |
| | MHz | MHz | MHz | MHz | MHz | MHz | |
| QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | 1 |
| 16 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | 1 |
| 16 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | 2 |

| LTE FDD Band 2 | | | | Conducted Power (dBm) | | |
|----------------|------------|---------|-----------|-----------------------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
| | | | | 18607 | 18900 | 19193 |
| 1.4MHz | QPSK | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | 16QAM | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
| | | | | 18615 | 18900 | 19185 |
| 3MHz | QPSK | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |

TEST REPORT

| | 16QAM | / | / | / | / | / | |
|-----------|------------|------------|-----------|-----------|---------|---------|---------|
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | |
| | | | | 18625 | 18900 | 19175 | |
| 5MHz | QPSK | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | 16QAM | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
| | | | | | 18650 | 18900 | 19150 |
| 10MHz | QPSK | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | 16QAM | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
| | | | | | 18675 | 18900 | 19125 |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |
| | | / | / | / | / | / | |

TEST REPORT

| | | | | | | |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|
| 15MHz | QPSK | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | 16QAM | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
| | | | | 18700 | 18900 | 19100 |
| 20MHz | QPSK | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | 16QAM | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |
| | | / | / | / | / | / |

6.4 WIFI Conducted Power

WLAN 2.4GHz Band Conducted Power

| Channel/Freq.(MHz) | Maximum Conducted Out Power (dBm) | | |
|--------------------|-----------------------------------|---------|---------------|
| | 802.11b | 802.11g | 802.11n(HT20) |
| 1(2412) | 14.31 | 9.64 | 9.69 |
| 6(2437) | 14.98 | 9.91 | 9.36 |
| 11(2462) | 15.56 | 9.54 | 10.09 |

WLAN 5.2GHz Band Conducted Power

| Channel/Freq.(MHz) | Maximum Conducted Out Power (dBm) | |
|--------------------|-----------------------------------|---------------|
| | 802.11a | 802.11n(HT20) |
| 36(5180) | 10.13 | 10.73 |
| 40(5200) | 11.15 | 10.69 |
| 48(5240) | 10.80 | 9.54 |

Note: choosing the highest output power channel to test SAR and determine further SAR exclusion
 For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at lowest data rate is not required. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2W/Kg$. Thus the SAR can be excluded.

6.5 Bluetooth Output Power

| Channel | Frequency (MHz) | BT5.0 Output Power(dBm) | | |
|---------|-----------------|--------------------------|----------------|--------|
| | | GFSK | $\pi/4$ -DQPSK | 8-DPSK |
| CH 0 | 2402 | / | / | / |
| CH 39 | 2441 | / | / | / |
| CH 78 | 2480 | / | / | / |
| Channel | Frequency (MHz) | BLE5.0 Output Power(dBm) | | |
| | | GFSK | | |
| CH 0 | 2402 | / | | |
| CH 20 | 2442 | / | | |
| CH 39 | 2480 | / | | |

7 Scaling Factor calculation

| Operation Mode | Channel | Output Power(dBm) | Tune up Power in tolerance(dBm) | Scaling Factor |
|-------------------|---------|-------------------|---------------------------------|----------------|
| WIFI 2.4G_802.11b | 1 | 14.31 | 15.0 ± 1.0 | 1.48 |
| | 6 | 14.98 | 15.0 ± 1.0 | 1.26 |
| | 11 | 15.56 | 15.0 ± 1.0 | 1.11 |
| WIFI 5.2G_802.11a | 36 | 10.13 | 10.5 ± 1.0 | 1.37 |
| | 40 | 11.15 | 10.5 ± 1.0 | 1.08 |
| | 48 | 10.80 | 10.5 ± 1.0 | 1.17 |

8 SAR test Exclusion Consideration and SAR measurement positions

8.1 SAR test Exclusion Consideration

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [vf(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

- (1) f(GHz) is the RF channel transmit frequency in GHz;
- (2) Power and distance are round to the nearest mW and mm before calculation;
- (3) The result is rounded to one decimal place for comparison;
- (4) If the test separation distance(antenna-user) is < 5mm, 5mm is used for excluded SAR calculation;

| Mode | Freq (GHz) | Position | SAR test exclusion threshold(mW) | RF power | | SAR test exclusion |
|------|------------|------------|----------------------------------|----------|-------|--------------------|
| | | | | dBm | mW | |
| WIFI | 2450 | Body (0mm) | 10 | 15.56 | 35.97 | no |
| WIFI | 5200 | Body (0mm) | 7 | 11.15 | 13.03 | no |

8.2 SAR measurement positions

The Body SAR measurement positions of each band are as below:

| Antenna | Front | Rear | Left Edge | Right Edge | Top Edge | Bottom Edge |
|-----------------------------|-------|------|-----------|------------|----------|-------------|
| WIFI Antenna Body-supported | Yes | Yes | Yes | Yes | No | No |

Note: when antenna-to-edge>2.5cm, SAR is not required.

9 SAR Test Results

SAR Values of Wi-Fi 802.11b

| Temperature: 21.7°C, humidity: 54.9%. | | | | | | | |
|---------------------------------------|------------|--------------------------|-----------------------------|---------------|----------------------|------------------|----------|
| Test Positions | | Channel /Frequency (MHz) | SAR(W/Kg), 1.6 (1g average) | | | | Plot No. |
| | | | SAR (W/Kg),1g | Scaled Factor | Scaled SAR (W/Kg),1g | Power drift (dB) | |
| Body-supported (0mm Separation) | Front Face | 11/2462 | 0.00685 | 1.11 | 0.008 | -0.12 | |
| | Rear Face | 11/2462 | 0.198 | 1.11 | 0.219 | -0.10 | 1 |
| | Left Side | 11/2462 | 0.0131 | 1.11 | 0.014 | 0.10 | |
| | Right Side | 11/2462 | 0.0127 | 1.11 | 0.014 | 0.10 | |
| | Rear Face | 1/2412 | 0.104 | 1.48 | 0.153 | 0.08 | |
| | Rear Face | 6/2437 | 0.115 | 1.26 | 0.145 | 0.04 | |

SAR Values of Wi-Fi 802.11a

| Temperature: 21.7°C, humidity: 54.9%. | | | | | | | |
|---------------------------------------|------------|--------------------------|-----------------------------|---------------|----------------------|------------------|----------|
| Test Positions | | Channel /Frequency (MHz) | SAR(W/Kg), 1.6 (1g average) | | | | Plot No. |
| | | | SAR (W/Kg),1g | Scaled Factor | Scaled SAR (W/Kg),1g | Power drift (dB) | |
| Body-supported (0mm Separation) | Front Face | 40/5200 | <0.0001 | 1.08 | <0.001 | -0.03 | |
| | Rear Face | 40/5200 | 0.386 | 1.08 | 0.418 | -0.11 | |
| | Left Side | 40/5200 | 0.0285 | 1.08 | 0.031 | 0.00 | |
| | Right Side | 40/5200 | 0.0777 | 1.08 | 0.084 | -0.17 | |
| | Rear Face | 36/5180 | 0.393 | 1.37 | 0.539 | -0.16 | 2 |
| | Rear Face | 48/5240 | 0.414 | 1.17 | 0.486 | 0.06 | |

10 Simultaneous Transmissions Analysis

10.1 Simultaneous transmission mode

Not supported.

10.2 Simultaneous transmission for head

Not supported.

10.3 Simultaneous transmission for body

Not supported.

Appendix I: Calibration reports

See document of Appendix I

Appendix II: Test Setup

See document of Appendix II

Appendix III: Measurement Results Plots

See document of Appendix III

***** END *****