

Appendix H. – Power reduction verification

Per the May 2017 TCBC Workshop notes, demonstration of proper functioning of the power reduction mechanism is required to support the corresponding SAR Configurations.

Power Verification Procedure

The Power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and output power was monitored. The Power measurements were conformed to be within expected tolerances for all states before and after a power reduction mechanism was triggered. For licensed modes, the device state index as displayed on the device UI was recorded before and after the mechanism was triggered

The verification process was divided into two parts:

- 1). Evaluation of output power levels for individual triggering mechanism
- 2) Evaluation of the triggering distances for proximity-based sensors.

FCC KDB Publication 616217D04v01r02 section 6 was used as a guideline for selection SAR test distances for this device when being used in body use conditions.

2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Step 1 and 2 were repeated for all individual power reduction mechanism and combinations thereof. For the combination cases, one mechanism was switched to a “triggered” state at a time; powers were conformed to be within tolerance after each additional mechanism was activated.

Proximity sensor triggering Distance Verification Procedure

(KDB 616217 D04v01r02 §6.2)

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom. For Licensed modes, the device state index(DSI) on the device UI was monitored to determine the triggering state.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 .Each applicable test position was evaluated. The distance were conformed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Step 1 and 2 were repeated for the relevant modes, as appropriate
4. Steps1 through 3 were repeated for all distance-based power reduction mechanisms.

For detailed measurement conducted power results, please refer to the Section .11

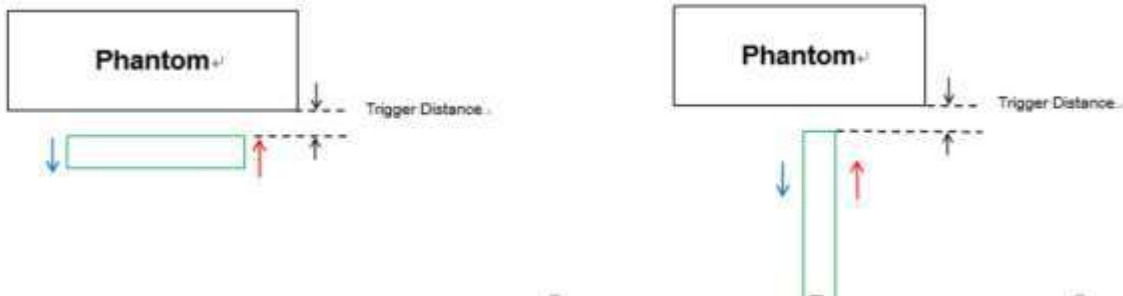
1. Main Ant1

1.1 Power Reduction Verification for Main Ant 1

| Mechanism(s) | Mode/Band | Device State Index | |
|--------------|-------------------|-----------------------------|------------------------------|
| | | Un-triggered (Max Power) | Triggered (Reduced Power) |
| Grip | UMTS Band 5 | DSI 0 | DSI 1 |
| Grip | UMTS Band 4 | DSI 0 | DSI 1 |
| Grip | UMTS Band 2 | DSI 0 | DSI 1 |
| Grip | LTE Band 2 | DSI 0 | DSI 1 |
| Grip | LTE Band 4 | DSI 0 | DSI 1 |
| Grip | LTE Band 5 | DSI 0 | DSI 1 |
| Grip | LTE Band 7 | DSI 0 | DSI 1 |
| Grip | LTE Band 12 | DSI 0 | DSI 1 |
| Grip | LTE Band 13 | DSI 0 | DSI 1 |
| Grip | LTE Band 14 | DSI 0 | DSI 1 |
| Grip | LTE Band 25 | DSI 0 | DSI 1 |
| Grip | LTE Band 26 | DSI 0 | DSI 1 |
| Grip | LTE Band 30 | DSI 0 | DSI 1 |
| Grip | LTE Band 41 | DSI 0 | DSI 1 |
| Grip | LTE Band 41(HPUE) | DSI 0 | DSI 1 |
| Grip | LTE Band 66 | DSI 0 | DSI 1 |
| Grip | LTE Band 71 | DSI 0 | DSI 1 |
| Grip | N2 | DSI 0 | DSI 1 |
| Grip | N5 | DSI 0 | DSI 1 |
| Grip | N25 | DSI 0 | DSI 1 |
| Grip | N66 | DSI 0 | DSI 1 |
| Grip | N71 | DSI 0 | DSI 1 |

Note: This device uses different Device State Indices(DSI) to configure different time averaged power level based on certain exposure scenarios. For this model, DSI=1 represents the case when the grip sensor is active, and DSI=0 represents the case where the device cannot detect the use condition.

1.2 Proximity sensor triggering Distance Verification.



Proximity Sensor Trigger Distance Assessment KDB 616217 D04 §6.2 (Rear / Right / Top side)

LEGEND

- Direction of DUT travel for determination of power reduction triggering point
- Direction of DUT travel for determination of full power resumption triggering point

| Tissue simulating liquid | Trigger distance - Rear | | Trigger distance – Right Side | | Trigger distance - Top | |
|--------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------|-------------------------------|
| | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] |
| 700MHz | 18 | 19 | 9 | 10 | 24 | 25 |
| 800MHz | 18 | 19 | 9 | 10 | 24 | 25 |
| 1750 MHz | 18 | 19 | 9 | 10 | 24 | 25 |
| 1900 MHz | 18 | 19 | 9 | 10 | 24 | 25 |
| 2300MHz | 18 | 19 | 9 | 10 | 24 | 25 |
| 2600 MHz | 18 | 19 | 9 | 10 | 24 | 25 |

Distance Measurement verification for Proximity sensor

Rear side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| UMTS Band 5 | 23.63 | 23.67 | 23.72 | 23.67 | 23.76 | 17.79 | 17.79 | 17.66 | 17.66 | 17.75 |
| UMTS Band 4 | 23.73 | 23.90 | 23.70 | 23.71 | 23.72 | 13.83 | 13.80 | 13.74 | 13.65 | 13.73 |
| UMTS Band 2 | 23.63 | 23.55 | 23.49 | 23.60 | 23.59 | 13.49 | 13.60 | 13.55 | 13.63 | 13.56 |
| LTE Band 2 | 24.03 | 23.89 | 24.05 | 23.98 | 24.05 | 13.99 | 14.08 | 14.10 | 14.16 | 14.17 |
| LTE Band 4 | 23.70 | 23.78 | 23.84 | 23.71 | 23.70 | 13.62 | 13.58 | 13.64 | 13.64 | 13.65 |
| LTE Band 5 | 24.55 | 24.60 | 24.67 | 24.63 | 24.50 | 16.07 | 15.93 | 15.95 | 15.95 | 16.09 |
| LTE Band 7 | 24.10 | 24.14 | 24.11 | 24.23 | 24.14 | 11.70 | 11.82 | 11.88 | 11.88 | 11.89 |
| LTE Band 12 | 24.80 | 24.90 | 24.80 | 24.88 | 24.93 | 15.77 | 15.93 | 15.90 | 15.76 | 15.86 |
| LTE Band 13 | 23.93 | 24.06 | 24.03 | 23.91 | 23.93 | 16.03 | 15.95 | 16.09 | 16.02 | 16.01 |
| LTE Band 14 | 24.26 | 24.11 | 24.16 | 24.18 | 24.16 | 16.00 | 16.08 | 15.94 | 16.00 | 16.04 |
| LTE Band 25 | 24.18 | 24.13 | 24.20 | 24.16 | 24.18 | 13.95 | 13.96 | 14.10 | 14.10 | 14.12 |
| LTE Band 26 | 24.20 | 24.20 | 24.17 | 24.22 | 24.23 | 15.85 | 15.89 | 15.99 | 15.84 | 15.97 |
| LTE Band 30 | 22.57 | 22.54 | 22.43 | 22.52 | 22.41 | 12.60 | 12.65 | 12.71 | 12.69 | 12.68 |
| LTE Band 41 | 24.50 | 24.43 | 24.40 | 24.52 | 24.50 | 14.08 | 14.19 | 14.24 | 14.22 | 14.22 |
| LTE Band41(HPUE) | 27.08 | 27.21 | 27.02 | 27.08 | 27.18 | 14.04 | 14.08 | 14.06 | 14.01 | 14.06 |
| LTE Band 66 | 23.93 | 23.85 | 23.92 | 23.91 | 23.82 | 13.68 | 13.69 | 13.80 | 13.63 | 13.80 |
| LTE Band 71 | 24.63 | 24.51 | 24.47 | 24.53 | 24.58 | 16.01 | 15.92 | 15.86 | 16.02 | 16.01 |
| N2 | 24.65 | 24.63 | 24.61 | 24.68 | 24.64 | 14.69 | 14.73 | 14.73 | 14.60 | 14.60 |
| N5 | 24.53 | 24.53 | 24.45 | 24.46 | 24.43 | 16.63 | 16.60 | 16.57 | 16.51 | 16.45 |
| N25 | 24.13 | 24.02 | 24.06 | 24.13 | 23.98 | 13.91 | 13.96 | 13.96 | 13.98 | 14.10 |
| N66 | 24.47 | 24.48 | 24.60 | 24.51 | 24.52 | 14.48 | 14.59 | 14.56 | 14.51 | 14.60 |
| N71 | 24.26 | 24.40 | 24.41 | 24.43 | 24.42 | 13.85 | 13.69 | 13.87 | 13.88 | 13.75 |

Rear side – EUT Moving away (Release) from the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| UMTS Band 5 | 17.63 | 17.61 | 17.72 | 17.73 | 17.69 | 23.63 | 23.79 | 23.63 | 23.74 | 23.69 |
| UMTS Band 4 | 13.83 | 13.76 | 13.66 | 13.81 | 13.74 | 23.74 | 23.73 | 23.88 | 23.87 | 23.83 |
| UMTS Band 2 | 13.50 | 13.63 | 13.60 | 13.64 | 13.63 | 23.57 | 23.52 | 23.61 | 23.49 | 23.62 |
| LTE Band 2 | 14.06 | 14.12 | 14.16 | 14.00 | 14.19 | 23.94 | 23.90 | 23.96 | 24.03 | 24.04 |
| LTE Band 4 | 13.56 | 13.68 | 13.64 | 13.55 | 13.55 | 23.89 | 23.71 | 23.86 | 23.74 | 23.87 |
| LTE Band 5 | 16.06 | 15.91 | 16.04 | 16.06 | 16.04 | 24.69 | 24.53 | 24.52 | 24.62 | 24.67 |
| LTE Band 7 | 11.86 | 11.78 | 11.85 | 11.71 | 11.79 | 24.19 | 24.20 | 24.12 | 24.13 | 24.09 |
| LTE Band 12 | 15.86 | 15.77 | 15.82 | 15.87 | 15.78 | 24.91 | 24.86 | 24.83 | 24.86 | 24.87 |
| LTE Band 13 | 16.12 | 15.95 | 16.10 | 16.08 | 15.97 | 24.06 | 24.02 | 23.95 | 24.03 | 23.90 |
| LTE Band 14 | 15.98 | 16.03 | 15.98 | 16.06 | 16.00 | 24.21 | 24.11 | 24.11 | 24.29 | 24.16 |
| LTE Band 25 | 13.99 | 13.96 | 13.97 | 13.96 | 13.98 | 24.05 | 24.10 | 24.15 | 24.13 | 24.01 |
| LTE Band 26 | 15.83 | 15.98 | 15.83 | 15.99 | 15.84 | 24.16 | 24.16 | 24.17 | 24.28 | 24.32 |
| LTE Band 30 | 12.67 | 12.69 | 12.70 | 12.65 | 12.79 | 22.42 | 22.47 | 22.50 | 22.47 | 22.39 |
| LTE Band 41 | 14.05 | 14.16 | 14.12 | 14.19 | 14.16 | 24.46 | 24.36 | 24.44 | 24.51 | 24.39 |
| LTE Band 41(HPUE) | 14.07 | 14.09 | 14.04 | 14.02 | 14.12 | 27.12 | 27.12 | 27.07 | 27.02 | 27.10 |
| LTE Band 66 | 13.76 | 13.63 | 13.67 | 13.64 | 13.64 | 23.83 | 23.87 | 23.79 | 23.84 | 23.81 |
| LTE Band 71 | 15.86 | 15.93 | 15.97 | 16.01 | 15.90 | 24.60 | 24.55 | 24.45 | 24.54 | 24.58 |
| N2 | 14.64 | 14.61 | 14.65 | 14.71 | 14.64 | 24.54 | 24.71 | 24.57 | 24.58 | 24.51 |
| N5 | 16.56 | 16.50 | 16.48 | 16.55 | 16.62 | 24.52 | 24.36 | 24.49 | 24.39 | 24.34 |
| N25 | 13.97 | 14.06 | 14.02 | 14.09 | 14.09 | 24.15 | 24.16 | 24.07 | 23.97 | 24.07 |
| N66 | 14.49 | 14.54 | 14.51 | 14.53 | 14.46 | 24.47 | 24.57 | 24.54 | 24.62 | 24.46 |
| N71 | 13.75 | 13.68 | 13.79 | 13.68 | 13.81 | 24.28 | 24.33 | 24.37 | 24.38 | 24.30 |

Based on the most conservative measured triggering distance of 18mm, additional Body SAR measurements were required at 17mm from rear side for the above modes.

Right side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| UMTS Band 5 | 23.67 | 23.73 | 23.66 | 23.81 | 23.74 | 17.68 | 17.73 | 17.71 | 17.73 | 17.79 |
| UMTS Band 4 | 23.88 | 23.85 | 23.79 | 23.90 | 23.78 | 13.80 | 13.68 | 13.83 | 13.68 | 13.71 |
| UMTS Band 2 | 23.57 | 23.68 | 23.60 | 23.49 | 23.56 | 13.53 | 13.52 | 13.62 | 13.51 | 13.51 |
| LTE Band 2 | 23.89 | 24.04 | 24.07 | 24.06 | 23.91 | 14.10 | 14.15 | 14.06 | 14.16 | 14.00 |
| LTE Band 4 | 23.83 | 23.83 | 23.90 | 23.88 | 23.73 | 13.63 | 13.60 | 13.64 | 13.63 | 13.59 |
| LTE Band 5 | 24.59 | 24.67 | 24.58 | 24.57 | 24.58 | 16.02 | 16.01 | 15.93 | 16.08 | 16.01 |
| LTE Band 7 | 24.21 | 24.18 | 24.16 | 24.12 | 24.11 | 11.81 | 11.90 | 11.83 | 11.77 | 11.87 |
| LTE Band 12 | 24.97 | 24.82 | 24.87 | 24.78 | 24.96 | 15.86 | 15.92 | 15.93 | 15.88 | 15.81 |
| LTE Band 13 | 24.01 | 24.05 | 24.04 | 24.06 | 23.96 | 16.00 | 16.14 | 16.11 | 16.00 | 16.12 |
| LTE Band 14 | 24.30 | 24.29 | 24.24 | 24.14 | 24.14 | 15.98 | 16.10 | 16.12 | 15.94 | 15.99 |
| LTE Band 25 | 24.04 | 24.01 | 24.08 | 24.13 | 24.07 | 14.03 | 14.00 | 14.05 | 14.01 | 14.08 |
| LTE Band 26 | 24.26 | 24.35 | 24.17 | 24.32 | 24.25 | 15.91 | 16.03 | 15.86 | 15.86 | 15.85 |
| LTE Band 30 | 22.56 | 22.52 | 22.49 | 22.55 | 22.40 | 12.72 | 12.69 | 12.76 | 12.62 | 12.62 |
| LTE Band 41 | 24.46 | 24.52 | 24.43 | 24.50 | 24.42 | 14.06 | 14.23 | 14.19 | 14.21 | 14.14 |
| LTE Band 41(HPUE) | 27.02 | 27.13 | 27.17 | 27.04 | 27.14 | 14.18 | 14.06 | 14.07 | 14.15 | 14.16 |
| LTE Band 66 | 23.84 | 23.82 | 23.95 | 23.89 | 23.94 | 13.75 | 13.76 | 13.67 | 13.75 | 13.62 |
| LTE Band 71 | 24.53 | 24.44 | 24.50 | 24.59 | 24.54 | 16.03 | 16.01 | 16.02 | 15.86 | 15.90 |
| N2 | 24.61 | 24.54 | 24.61 | 24.57 | 24.64 | 14.72 | 14.76 | 14.64 | 14.61 | 14.74 |
| N5 | 24.45 | 24.50 | 24.54 | 24.43 | 24.49 | 16.43 | 16.51 | 16.63 | 16.56 | 16.59 |
| N25 | 24.05 | 23.97 | 24.01 | 24.15 | 24.04 | 14.10 | 13.95 | 13.98 | 14.00 | 13.98 |
| N66 | 24.42 | 24.54 | 24.62 | 24.57 | 24.43 | 14.58 | 14.60 | 14.44 | 14.58 | 14.47 |
| N71 | 24.34 | 24.27 | 24.31 | 24.43 | 24.41 | 13.73 | 13.75 | 13.88 | 13.76 | 13.78 |

Right side – EUT Moving away (Release) from the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| UMTS Band 5 | 17.65 | 17.74 | 17.68 | 17.65 | 17.64 | 23.68 | 23.73 | 23.80 | 23.80 | 23.61 |
| UMTS Band 4 | 13.69 | 13.71 | 13.79 | 13.66 | 13.73 | 23.82 | 23.89 | 23.73 | 23.75 | 23.79 |
| UMTS Band 2 | 13.50 | 13.57 | 13.58 | 13.52 | 13.57 | 23.57 | 23.61 | 23.61 | 23.51 | 23.60 |
| LTE Band 2 | 14.13 | 14.11 | 14.14 | 14.14 | 14.05 | 23.91 | 24.01 | 23.91 | 24.07 | 23.90 |
| LTE Band 4 | 13.68 | 13.66 | 13.72 | 13.61 | 13.62 | 23.90 | 23.86 | 23.78 | 23.88 | 23.80 |
| LTE Band 5 | 16.05 | 16.09 | 15.94 | 15.96 | 15.95 | 24.57 | 24.66 | 24.59 | 24.57 | 24.51 |
| LTE Band 7 | 11.79 | 11.87 | 11.72 | 11.78 | 11.85 | 24.15 | 24.17 | 24.23 | 24.28 | 24.10 |
| LTE Band 12 | 15.81 | 15.76 | 15.92 | 15.91 | 15.82 | 24.88 | 24.91 | 24.95 | 24.95 | 24.82 |
| LTE Band 13 | 16.01 | 16.01 | 16.14 | 15.99 | 15.95 | 23.97 | 23.92 | 23.93 | 23.99 | 23.93 |
| LTE Band 14 | 16.12 | 16.04 | 16.11 | 15.98 | 15.97 | 24.30 | 24.29 | 24.18 | 24.29 | 24.14 |
| LTE Band 25 | 13.95 | 14.05 | 14.11 | 14.11 | 14.07 | 24.21 | 24.02 | 24.13 | 24.11 | 24.15 |
| LTE Band 26 | 15.97 | 15.95 | 16.01 | 15.98 | 15.99 | 24.26 | 24.29 | 24.33 | 24.18 | 24.23 |
| LTE Band 30 | 12.64 | 12.73 | 12.63 | 12.73 | 12.70 | 22.50 | 22.46 | 22.43 | 22.39 | 22.58 |
| LTE Band 41 | 14.11 | 14.23 | 14.24 | 14.18 | 14.11 | 24.44 | 24.47 | 24.39 | 24.46 | 24.35 |
| LTE Band 41(HPUE) | 14.15 | 14.01 | 14.19 | 14.02 | 14.09 | 27.05 | 27.16 | 27.18 | 27.08 | 27.17 |
| LTE Band 66 | 13.64 | 13.61 | 13.61 | 13.76 | 13.61 | 23.93 | 23.99 | 23.87 | 23.92 | 23.97 |
| LTE Band 71 | 15.88 | 16.01 | 15.85 | 16.00 | 16.00 | 24.50 | 24.61 | 24.50 | 24.63 | 24.51 |
| N2 | 14.67 | 14.73 | 14.71 | 14.69 | 14.62 | 24.51 | 24.68 | 24.59 | 24.65 | 24.66 |
| N5 | 16.54 | 16.44 | 16.60 | 16.63 | 16.46 | 24.47 | 24.52 | 24.36 | 24.50 | 24.46 |
| N25 | 14.09 | 13.96 | 14.02 | 13.97 | 13.93 | 24.10 | 24.07 | 24.01 | 24.09 | 23.99 |
| N66 | 14.54 | 14.45 | 14.60 | 14.55 | 14.59 | 24.55 | 24.57 | 24.46 | 24.57 | 24.59 |
| N71 | 13.86 | 13.82 | 13.72 | 13.77 | 13.74 | 24.24 | 24.23 | 24.24 | 24.25 | 24.31 |

Based on the most conservative measured triggering distance of 9mm, additional Body SAR measurements were required at 8mm from right side for the above modes

Top side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |
| UMTS Band 5 | 23.65 | 23.76 | 23.80 | 23.71 | 23.66 | 17.61 | 17.78 | 17.68 | 17.69 | 17.68 |
| UMTS Band 4 | 23.89 | 23.81 | 23.79 | 23.78 | 23.77 | 13.69 | 13.79 | 13.64 | 13.75 | 13.68 |
| UMTS Band 2 | 23.69 | 23.58 | 23.55 | 23.64 | 23.57 | 13.64 | 13.62 | 13.64 | 13.47 | 13.52 |
| LTE Band 2 | 23.96 | 24.02 | 23.92 | 24.06 | 24.06 | 14.08 | 14.01 | 14.10 | 13.99 | 14.00 |
| LTE Band 4 | 23.76 | 23.73 | 23.77 | 23.71 | 23.70 | 13.53 | 13.62 | 13.64 | 13.53 | 13.71 |
| LTE Band 5 | 24.60 | 24.52 | 24.58 | 24.69 | 24.56 | 16.01 | 16.01 | 16.05 | 15.91 | 16.01 |
| LTE Band 7 | 24.16 | 24.24 | 24.11 | 24.20 | 24.22 | 11.79 | 11.86 | 11.86 | 11.77 | 11.73 |
| LTE Band 12 | 24.80 | 24.77 | 24.84 | 24.89 | 24.92 | 15.82 | 15.75 | 15.80 | 15.84 | 15.79 |
| LTE Band 13 | 23.99 | 24.08 | 23.95 | 24.04 | 24.02 | 15.96 | 15.96 | 15.98 | 16.10 | 16.13 |
| LTE Band 14 | 24.18 | 24.17 | 24.17 | 24.30 | 24.21 | 16.11 | 16.02 | 16.13 | 16.11 | 15.98 |
| LTE Band 25 | 24.09 | 24.09 | 24.10 | 24.07 | 24.12 | 14.00 | 14.06 | 14.01 | 14.12 | 13.94 |
| LTE Band 26 | 24.22 | 24.32 | 24.33 | 24.27 | 24.31 | 15.88 | 15.94 | 15.84 | 15.93 | 15.89 |
| LTE Band 30 | 22.48 | 22.41 | 22.39 | 22.52 | 22.57 | 12.65 | 12.66 | 12.60 | 12.63 | 12.60 |
| LTE Band 41 | 24.49 | 24.52 | 24.52 | 24.51 | 24.51 | 14.05 | 14.24 | 14.19 | 14.15 | 14.08 |
| LTE Band 41(HPUE) | 27.04 | 27.12 | 27.17 | 27.11 | 27.14 | 14.07 | 14.05 | 14.00 | 14.00 | 14.08 |
| LTE Band 66 | 23.90 | 23.87 | 23.86 | 23.92 | 23.80 | 13.78 | 13.80 | 13.69 | 13.80 | 13.68 |
| LTE Band 71 | 24.61 | 24.53 | 24.51 | 24.53 | 24.63 | 15.99 | 15.86 | 15.96 | 15.98 | 15.94 |
| N2 | 24.54 | 24.54 | 24.64 | 24.67 | 24.62 | 14.76 | 14.70 | 14.74 | 14.75 | 14.70 |
| N5 | 24.36 | 24.49 | 24.37 | 24.44 | 24.50 | 16.47 | 16.62 | 16.52 | 16.53 | 16.56 |
| N25 | 24.00 | 24.08 | 23.97 | 24.08 | 24.02 | 13.93 | 13.95 | 14.11 | 14.11 | 14.02 |
| N66 | 24.46 | 24.47 | 24.60 | 24.62 | 24.54 | 14.49 | 14.49 | 14.51 | 14.58 | 14.54 |
| N71 | 24.30 | 24.33 | 24.23 | 24.24 | 24.28 | 13.85 | 13.85 | 13.73 | 13.68 | 13.72 |

Top side – EUT Moving away (Release) from the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|-------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| UMTS Band 5 | 17.75 | 17.80 | 17.75 | 17.69 | 17.70 | 23.69 | 23.62 | 23.61 | 23.78 | 23.71 |
| UMTS Band 4 | 13.71 | 13.75 | 13.82 | 13.79 | 13.75 | 23.73 | 23.89 | 23.76 | 23.84 | 23.72 |
| UMTS Band 2 | 13.57 | 13.51 | 13.60 | 13.54 | 13.53 | 23.54 | 23.56 | 23.58 | 23.58 | 23.49 |
| LTE Band 2 | 14.15 | 14.09 | 14.07 | 14.03 | 14.12 | 23.87 | 23.87 | 24.01 | 24.02 | 23.94 |
| LTE Band 4 | 13.53 | 13.57 | 13.60 | 13.65 | 13.71 | 23.70 | 23.76 | 23.86 | 23.85 | 23.73 |
| LTE Band 5 | 15.96 | 16.01 | 15.99 | 16.09 | 15.90 | 24.63 | 24.63 | 24.60 | 24.62 | 24.61 |
| LTE Band 7 | 11.73 | 11.70 | 11.85 | 11.85 | 11.70 | 24.16 | 24.12 | 24.17 | 24.22 | 24.18 |
| LTE Band 12 | 15.95 | 15.76 | 15.94 | 15.94 | 15.81 | 24.81 | 24.78 | 24.91 | 24.97 | 24.81 |
| LTE Band 13 | 16.07 | 15.99 | 16.02 | 16.07 | 16.07 | 23.95 | 23.90 | 23.92 | 23.97 | 24.09 |
| LTE Band 14 | 16.07 | 16.10 | 16.03 | 16.08 | 16.07 | 24.28 | 24.24 | 24.24 | 24.19 | 24.20 |
| LTE Band 25 | 14.02 | 14.00 | 14.12 | 14.01 | 14.00 | 24.17 | 24.09 | 24.15 | 24.20 | 24.20 |
| LTE Band 26 | 15.89 | 15.95 | 15.97 | 15.83 | 15.88 | 24.31 | 24.35 | 24.28 | 24.32 | 24.16 |
| LTE Band 30 | 12.64 | 12.73 | 12.67 | 12.71 | 12.72 | 22.48 | 22.59 | 22.55 | 22.54 | 22.50 |
| LTE Band 41 | 14.14 | 14.20 | 14.05 | 14.15 | 14.10 | 24.34 | 24.32 | 24.33 | 24.42 | 24.47 |
| LTE Band 41(HPUE) | 14.05 | 14.05 | 14.15 | 14.01 | 14.13 | 27.09 | 27.07 | 27.20 | 27.04 | 27.09 |
| LTE Band 66 | 13.79 | 13.73 | 13.81 | 13.70 | 13.75 | 23.85 | 23.79 | 23.91 | 23.79 | 23.82 |
| LTE Band 71 | 16.01 | 15.92 | 16.03 | 15.92 | 15.95 | 24.46 | 24.44 | 24.49 | 24.56 | 24.45 |
| N2 | 14.75 | 14.60 | 14.67 | 14.76 | 14.74 | 24.52 | 24.51 | 24.70 | 24.59 | 24.61 |
| N5 | 16.46 | 16.55 | 16.43 | 16.54 | 16.61 | 24.34 | 24.51 | 24.35 | 24.39 | 24.36 |
| N25 | 13.95 | 14.08 | 14.00 | 14.03 | 13.91 | 23.97 | 24.14 | 24.09 | 24.08 | 24.15 |
| N66 | 14.62 | 14.59 | 14.55 | 14.45 | 14.62 | 24.42 | 24.51 | 24.46 | 24.61 | 24.47 |
| N71 | 13.72 | 13.82 | 13.88 | 13.73 | 13.71 | 24.34 | 24.28 | 24.24 | 24.26 | 24.42 |

Based on the most conservative measured triggering distance of 24mm, additional Body SAR measurements were required at 23mm from top side for the above modes.

1.3 Proximity Sensor Coverage for SAR measurements

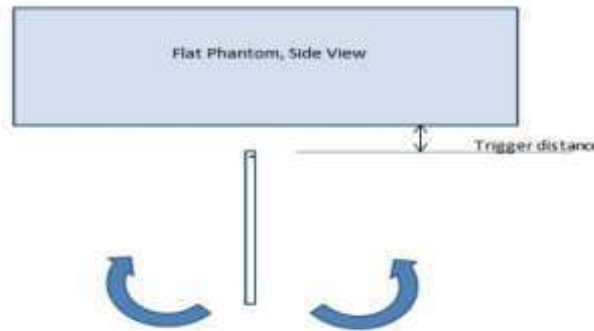
(KDB 616217 D04v01r02 §6.3)

As there is no spatial offset between the antenna and the proximity sensor element, proximity sensor coverage did not need to be assessed.

1.4 Proximity Sensor Tilt Angle Assessment

(KDB 616217 D04v01r02 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band. The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity sensor tilt angle assessment (Bottom side) KDB 616217 §6.4

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Top side)

| Band (MHz) | Minimum distance at which power reduction was maintained over-45° | Power reduction status | | | | | | | | | | |
|------------|---|------------------------|------|------|------|------|----|-----|-----|-----|-----|-----|
| | | -45° | -40° | -30° | -20° | -10° | 0° | 10° | 20° | 30° | 40° | 45° |
| 700MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |
| 800MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |
| 1750 MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |
| 1900 MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |
| 2300MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |
| 2600 MHz | 24 mm | On | On | On | On | On | On | On | On | On | On | On |

1.5 Resulting test positions for Body SAR measurements

| Wireless technologies | Position | §6.2 Triggering Distance [mm] | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Body SAR [mm] |
|-----------------------|------------|-------------------------------|---------------|-----------------|---------------------------------------|
| Main Ant 1 | Rear | 18 | N/A | N/A | 17 |
| | Right Side | 9 | N/A | N/A | 8 |
| | Top | 24 | N/A | N/A | 23 |

Note: FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Proximity use conditions.

2. Main Ant 2

2.1 Power Reduction Verification

| Mechanism(s) | Mode/Band | Device State Index | |
|--------------|-----------|--------------------------|---------------------------|
| | | Un-triggered (Max Power) | Triggered (Reduced Power) |
| Grip | N 41 | DSI 0 | DSI 1 |

2.2 Proximity sensor triggering Distance Verification.



Proximity Sensor Trigger Distance Assessment KDB 616217 D04 §6.2 (Rear / Top side)

LEGEND

- Direction of DUT travel for determination of power reduction triggering point
- Direction of DUT travel for determination of full power resumption triggering point

| Tissue simulating liquid | Trigger distance - Rear | | Trigger distance - Top | |
|--------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|
| | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] |
| 2600 MHz | 5 | 6 | 8 | 8 |

Rear side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| N 41 | 23.39 | 23.36 | 23.34 | 23.36 | 23.35 | 13.55 | 13.62 | 13.52 | 13.46 | 13.51 |

Rear side – EUT Moving away (Release) from the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| N 41 | 13.49 | 13.63 | 13.47 | 13.62 | 13.62 | 23.36 | 23.31 | 23.32 | 23.31 | 23.39 |

Based on the most conservative measured triggering distance of 5mm, additional Body SAR measurements were required at 4mm from rear side for the above modes.

Top side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |
| N 41 | 23.31 | 23.34 | 23.39 | 23.31 | 23.38 | 13.60 | 13.62 | 13.54 | 13.58 | 13.57 |

Top side – EUT Moving away (Release) from the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|----------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| N 41 | 13.53 | 13.53 | 13.55 | 13.56 | 13.62 | 23.32 | 23.32 | 23.30 | 23.27 | 23.33 |

Based on the most conservative measured triggering distance of 8mm, additional Body SAR measurements were required at 7mm from top side for the above modes.

2.3 Proximity Sensor Coverage for SAR measurements

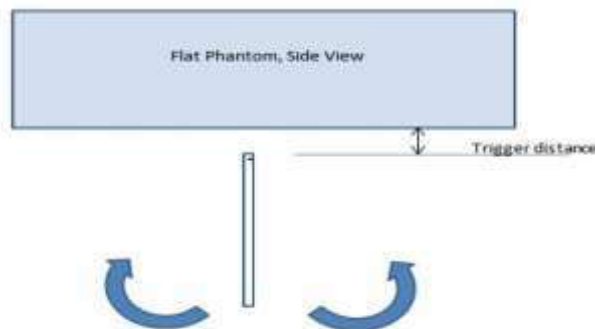
(KDB 616217 D04v01r02 §6.3)

As there is no spatial offset between the antenna and the proximity sensor element, proximity sensor coverage did not need to be assessed.

2.4 Proximity Sensor Tilt Angle Assessment

(KDB 616217 D04v01r02 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band. The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity sensor tilt angle assessment (Bottom side) KDB 616217 §6.4

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Top side)

| Band (MHz) | Minimum distance at which power reduction was maintained over-45° | Power reduction status | | | | | | | | | | | |
|------------|---|------------------------|------|------|------|------|----|-----|-----|-----|-----|-----|----|
| | | -45° | -40° | -30° | -20° | -10° | 0° | 10° | 20° | 30° | 40° | 45° | |
| 2600 MHz | 8 mm | On | On | On | On | On | On | On | On | On | On | On | On |

2.5 Resulting test positions for Body SAR measurements

| Wireless technologies | Position | §6.2 Triggering Distance [mm] | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Body SAR [mm] |
|-----------------------|----------|-------------------------------|---------------|-----------------|---------------------------------------|
| Main Ant 2 | Rear | 5 | N/A | N/A | 4 |
| | Top | 8 | N/A | N/A | 7 |

Note: FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Proximity use conditions.

This device uses an independent fixed level power reduction mechanism for WLAN operations when 5G NR mmWave is active and also during activating in close proximity to the user's Body

3. WLAN/BT Ant 1

3.1 Power reduction Verification

Power reduction verification for WLAN/BT Ant1

| Mechanism | Mode/Band | Device State Index | | |
|---------------|--|--------------------------|------------------------------|------------------------------|
| | | Un-triggered (Max Power) | Mechanism 1: (Reduced Power) | Mechanism 2: (Reduced Power) |
| Grip on | 2.4 GHz 802.11b | 19.65 | 10.63 | |
| Grip on | 2.4 GHz 802.11g | 17.89 | 9.64 | |
| Grip on | 2.4 GHz 802.11n | 16.47 | 9.33 | |
| Grip on | 2.4 GHz 802.11ax SU | 13.53 | 9.03 | |
| Grip on | 2.4 GHz Bluetooth | 14.18 | 4.45 | |
| Grip on | 5 GHz 802.11a (Except ch165) | 16.03 | 7.32 | |
| Grip on | 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 6.98 | |
| Grip on | 5 GHz 802.11ac 20MHz (Except ch165) | 15.47 | 7.02 | |
| Grip on | 5 GHz 802.11ax SU 20MHz | 9.42 | 6.88 | |
| Grip on | 5 GHz 802.11n 40MHz (Except ch62,102) | 14.88 | 7.05 | |
| Grip on | 5 GHz 802.11ac 40MHz (Except ch62,102) | 13.32 | 6.97 | |
| Grip on | 5 GHz 802.11ax SU 40MHz | 9.31 | 6.66 | |
| Grip on | 5 GHz 802.11ac 80MHz | 12.43 | 6.57 | |
| Grip on | 5 GHz 802.11ax SU 80MHz | 9.38 | 6.59 | |
| mmWave active | 2.4 GHz 802.11b | 19.65 | 19.65 | |
| mmWave active | 2.4 GHz 802.11g | 17.89 | 17.89 | |
| mmWave active | 2.4 GHz 802.11n | 16.47 | 16.47 | |
| mmWave active | 2.4 GHz 802.11ax SU | 13.53 | 13.53 | |
| mmWave active | 2.4 GHz Bluetooth | 14.18 | 14.18 | |

| | | | | |
|----------------------------|---|-------|-------|------|
| mmWave active | 5 GHz 802.11a (Except ch165) | 16.03 | 16.03 | |
| mmWave active | 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 15.51 | |
| mmWave active | 5 GHz 802.11ac 20MHz (Except ch165) | 15.47 | 15.47 | |
| mmWave active | 5 GHz 802.11ax SU 20MHz | 9.42 | 9.42 | |
| mmWave active | 5 GHz 802.11n 40MHz (Except ch62,102) | 14.88 | 14.88 | |
| mmWave active | 5 GHz 802.11ac 40MHz (Except ch62,102) | 13.32 | 13.32 | |
| mmWave active | 5 GHz 802.11ax SU 40MHz | 9.31 | 9.31 | |
| mmWave active | 5 GHz 802.11ac 80MHz | 12.43 | 12.43 | |
| mmWave active | 5 GHz 802.11ax SU 80MHz | 9.38 | 9.38 | |
| Grip on then mmwave active | 2.4 GHz 802.11b | 19.65 | 10.63 | 7.13 |
| Grip on then mmwave active | 2.4 GHz 802.11g | 17.89 | 9.64 | 6.74 |
| Grip on then mmwave active | 2.4 GHz 802.11n | 16.47 | 9.33 | 6.63 |
| Grip on then mmwave active | 2.4 GHz 802.11ax SU | 13.53 | 9.03 | 6.55 |
| Grip on then mmwave active | 2.4 GHz Bluetooth | 14.18 | 4.45 | 4.51 |
| Grip on then mmwave active | 5 GHz 802.11a (Except ch165) | 16.03 | 7.32 | 6.12 |
| Grip on then mmwave active | 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 6.98 | 6.14 |
| Grip on then mmwave active | 5 GHz 802.11ac 20MHz (Except ch165) | 15.47 | 7.02 | 6.10 |
| Grip on then mmwave active | 5 GHz 802.11ax SU 20MHz | 9.42 | 6.88 | 6.08 |
| Grip on then mmwave active | 5 GHz 802.11n 40MHz (Except ch62,102) | 14.88 | 7.05 | 6.11 |
| Grip on then mmwave active | 5 GHz 802.11ac 40MHz (Except ch62,102) | 13.32 | 6.97 | 5.97 |
| Grip on then mmwave active | 5 GHz 802.11ax SU 40MHz | 9.31 | 6.66 | 6.01 |
| Grip on then mmwave active | 5 GHz 802.11ac 80MHz | 12.43 | 6.57 | 5.88 |
| Grip on then mmwave active | 5 GHz 802.11ax SU 80MHz | 9.38 | 6.59 | 5.84 |

| | | | | |
|----------------------------|---|-------|-------|------|
| mmwave active then Grip on | 2.4 GHz 802.11b | 19.65 | 19.65 | 7.13 |
| mmwave active then Grip on | 2.4 GHz 802.11g | 17.89 | 17.89 | 6.74 |
| mmwave active then Grip on | 2.4 GHz 802.11n | 16.47 | 16.47 | 6.63 |
| mmwave active then Grip on | 2.4 GHz 802.11ax SU | 13.53 | 13.53 | 6.55 |
| mmwave active then Grip on | 2.4 GHz Bluetooth | 14.18 | 14.18 | 4.51 |
| mmwave active then Grip on | 5 GHz 802.11a (Except ch165) | 16.03 | 16.03 | 6.12 |
| mmwave active then Grip on | 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 15.51 | 6.14 |
| mmwave active then Grip on | 5 GHz 802.11ac 20MHz (Except ch165) | 15.47 | 15.47 | 6.10 |
| mmwave active then Grip on | 5 GHz 802.11ax SU 20MHz | 9.42 | 9.42 | 6.08 |
| mmwave active then Grip on | 5 GHz 802.11n 40MHz (Except ch62,102) | 14.88 | 14.88 | 6.11 |
| mmwave active then Grip on | 5 GHz 802.11ac 40MHz (Except ch62,102) | 13.32 | 13.32 | 5.97 |
| mmwave active then Grip on | 5 GHz 802.11ax SU 40MHz | 9.31 | 9.31 | 6.01 |
| mmwave active then Grip on | 5 GHz 802.11ac 80MHz | 12.43 | 12.43 | 5.88 |
| mmwave active then Grip on | 5 GHz 802.11ax SU 80MHz | 9.38 | 9.38 | 5.84 |

3.2 Proximity sensor triggering Distance Verification

| Tissue simulating liquid | Trigger distance – Rear | | Trigger distance – Right Side | | Trigger distance – Right Corner Side | | Trigger distance – Top | |
|--------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|-------------------------------|----------------------------|-------------------------------|
| | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] |
| 2450MHz | 11 | 12 | 9 | 11 | 14 | 15 | 16 | 17 |
| 5000MHz | 11 | 12 | 9 | 11 | 14 | 15 | 16 | 17 |

Rear side – EUT Moving toward (trigger) to the Phantom

| Mode | Distance to DUT Output power (dBm) | | | | | | | | | |
|---------------------------------------|------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 |
| 2.4 GHz 802.11b | 19.68 | 19.63 | 19.67 | 19.66 | 19.55 | 10.71 | 10.6 | 10.55 | 10.72 | 10.68 |
| 2.4 GHz 802.11g | 17.80 | 17.90 | 17.90 | 17.91 | 17.96 | 9.63 | 9.57 | 9.64 | 9.74 | 9.67 |
| 2.4 GHz 802.11n | 16.39 | 16.49 | 16.48 | 16.57 | 16.56 | 9.42 | 9.36 | 9.36 | 9.25 | 9.39 |
| 2.4 GHz 802.11ax SU | 16.44 | 16.54 | 16.45 | 16.62 | 16.49 | 9.17 | 9.25 | 9.13 | 9.15 | 9.25 |
| 2.4 GHz Bluetooth | 14.19 | 14.21 | 14.16 | 14.24 | 14.27 | 4.56 | 4.52 | 4.57 | 4.48 | 4.59 |
| 5 GHz 802.11a (Except ch165) | 15.98 | 16.10 | 15.94 | 15.97 | 15.98 | 7.27 | 7.31 | 7.34 | 7.39 | 7.35 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 15.46 | 15.55 | 15.41 | 15.56 | 7.02 | 6.89 | 6.97 | 6.91 | 6.88 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 15.44 | 15.46 | 15.37 | 15.56 | 15.57 | 6.96 | 6.92 | 6.95 | 7.09 | 7.04 |
| 5 GHz 802.11ax SU 20MHz | 9.35 | 9.51 | 9.41 | 9.37 | 9.47 | 6.85 | 6.84 | 6.82 | 6.8 | 6.78 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 14.54 | 14.66 | 14.69 | 14.63 | 14.59 | 6.98 | 7.02 | 7.09 | 7.14 | 7.08 |
| 5 GHz 802.11ac 40MHz | 13.29 | 13.37 | 13.34 | 13.29 | 13.29 | 7.05 | 6.94 | 6.95 | 7.06 | 7 |

| | | | | | | | | | | |
|----------------------------|-------|-------|------|-------|-------|------|------|------|------|------|
| 5 GHz 802.11ax SU 40MHz | 9.33 | 9.37 | 9.25 | 9.41 | 9.26 | 6.68 | 6.57 | 6.63 | 6.76 | 6.7 |
| 5 GHz 802.11ac 80MHz | 12.40 | 12.39 | 9.32 | 12.49 | 12.40 | 6.55 | 6.69 | 6.69 | 6.59 | 6.75 |
| 5 GHz 802.11ax SU 80MHz | 9.36 | 9.43 | 9.35 | 9.33 | 9.41 | 6.53 | 6.51 | 6.59 | 6.59 | 6.52 |

Rear side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 2.4 GHz 802.11b | 10.64 | 10.68 | 10.7 | 10.55 | 10.68 | 19.64 | 19.59 | 19.74 | 19.68 | 19.68 |
| 2.4 GHz 802.11g | 9.56 | 9.56 | 9.62 | 9.55 | 9.73 | 17.80 | 17.92 | 17.82 | 17.84 | 17.94 |
| 2.4 GHz 802.11n | 9.34 | 9.4 | 9.38 | 9.24 | 9.35 | 16.56 | 16.42 | 16.41 | 16.53 | 16.48 |
| 2.4 GHz 802.11ax SU | 9.27 | 9.27 | 9.21 | 9.21 | 9.24 | 16.55 | 16.55 | 16.48 | 16.51 | 16.62 |
| 2.4 GHz Bluetooth | 4.51 | 4.58 | 4.58 | 4.47 | 4.63 | 14.23 | 14.22 | 14.21 | 14.12 | 14.12 |
| 5 GHz 802.11a (Except ch165) | 7.41 | 7.24 | 7.36 | 7.41 | 7.31 | 15.95 | 16.05 | 16.02 | 16.05 | 16.02 |
| 5 GHz 802.11n 20MHz (Except ch165) | 6.99 | 7.03 | 6.89 | 6.99 | 7.04 | 15.55 | 15.52 | 15.60 | 15.53 | 15.42 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 7.03 | 7.12 | 7.12 | 7.06 | 7.12 | 15.45 | 15.55 | 15.41 | 15.41 | 15.37 |
| 5 GHz 802.11ax SU 20MHz | 6.84 | 6.93 | 6.83 | 6.88 | 6.85 | 9.47 | 9.45 | 9.46 | 9.48 | 9.37 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 7.04 | 6.97 | 7.14 | 7.04 | 6.99 | 14.61 | 14.65 | 14.61 | 14.52 | 14.53 |
| 5 GHz 802.11ac 40MHz | 6.88 | 6.95 | 7.03 | 6.98 | 7.01 | 13.37 | 13.34 | 13.34 | 13.34 | 13.23 |
| 5 GHz 802.11ax SU 40MHz | 6.59 | 6.72 | 6.65 | 6.7 | 6.69 | 9.39 | 9.32 | 9.23 | 9.21 | 9.23 |
| 5 GHz 802.11ac 80MHz | 6.53 | 6.51 | 6.58 | 6.55 | 6.54 | 12.52 | 12.33 | 12.47 | 12.52 | 12.33 |
| 5 GHz 802.11ax SU 80MHz | 6.58 | 6.58 | 6.56 | 6.51 | 6.57 | 9.45 | 9.38 | 9.38 | 9.30 | 9.34 |

Based on the most conservative measured triggering distance of 11mm, additional Body SAR measurements were required at 10mm from rear side for the above modes.

Right side – EUT Moving toward (trigger) to the Phantom

| Mode | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| 2.4 GHz 802.11b | 19.74 | 19.69 | 19.73 | 19.58 | 19.71 | 10.65 | 10.53 | 10.65 | 10.72 | 10.54 |
| 2.4 GHz 802.11g | 17.79 | 17.81 | 17.82 | 17.90 | 17.94 | 9.73 | 9.63 | 9.61 | 9.71 | 9.58 |
| 2.4 GHz 802.11n | 16.41 | 16.43 | 16.51 | 16.48 | 16.43 | 9.27 | 9.25 | 9.33 | 9.27 | 9.37 |
| 2.4 GHz 802.11ax SU | 16.54 | 16.57 | 16.57 | 16.47 | 16.60 | 9.16 | 9.3 | 9.21 | 9.31 | 9.19 |
| 2.4 GHz Bluetooth | 14.18 | 14.15 | 14.12 | 14.15 | 14.28 | 4.51 | 4.51 | 4.62 | 4.52 | 4.53 |
| 5 GHz 802.11a (Except ch165) | 16.06 | 16.03 | 16.02 | 15.93 | 16.08 | 7.32 | 7.3 | 7.41 | 7.4 | 7.31 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.44 | 15.53 | 15.41 | 15.54 | 15.54 | 7.05 | 6.96 | 6.89 | 7.06 | 6.9 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 15.41 | 15.55 | 15.37 | 15.51 | 15.43 | 7.01 | 7.08 | 7.03 | 7.05 | 7.1 |
| 5 GHz 802.11ax SU 20MHz | 9.48 | 9.42 | 9.34 | 9.44 | 9.36 | 6.8 | 6.97 | 6.85 | 6.85 | 6.85 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 14.58 | 14.57 | 14.56 | 14.68 | 14.59 | 7.02 | 7 | 7.02 | 7.01 | 7.08 |
| 5 GHz 802.11ac 40MHz | 13.24 | 13.37 | 13.39 | 13.27 | 13.40 | 7.07 | 7.02 | 6.87 | 6.94 | 6.92 |
| 5 GHz 802.11ax SU 40MHz | 9.27 | 9.25 | 9.29 | 9.26 | 9.34 | 6.62 | 6.63 | 6.59 | 6.63 | 6.67 |
| 5 GHz 802.11ac 80MHz | 12.41 | 12.38 | 9.27 | 12.41 | 12.44 | 6.56 | 6.7 | 6.71 | 6.68 | 6.62 |
| 5 GHz 802.11ax SU 80MHz | 9.39 | 9.29 | 9.41 | 9.39 | 9.35 | 6.55 | 6.56 | 6.55 | 6.53 | 6.57 |

Right side – EUT Moving away (Release) from the Phantom

| Mode | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|--------|-------|------|-------|-------|-------|-------|-------|
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 2.4 GHz 802.11b | 10.64 | 10.57 | 10.57 | 10.64 | 10.7 | 19.75 | 19.70 | 19.74 | 19.69 | 19.72 |
| 2.4 GHz 802.11g | 9.65 | 9.72 | 9.54 | 9.56 | 9.74 | 17.99 | 17.89 | 17.82 | 17.80 | 17.91 |
| 2.4 GHz 802.11n | 9.43 | 9.27 | 9.38 | 9.42 | 9.41 | 16.39 | 16.45 | 16.49 | 16.56 | 16.56 |
| 2.4 GHz 802.11ax SU | 9.21 | 9.2 | 9.3 | 9.27 | 9.24 | 16.48 | 16.61 | 16.49 | 16.57 | 16.61 |
| 2.4 GHz Bluetooth | 4.61 | 4.56 | 4.65 | 4.46 | 4.58 | 14.09 | 14.23 | 14.15 | 14.14 | 14.23 |
| 5 GHz 802.11a (Except ch165) | 7.26 | 7.25 | 7.41 | 7.29 | 7.36 | 16.10 | 16.01 | 16.00 | 16.06 | 16.11 |
| 5 GHz 802.11n 20MHz (Except ch165) | 6.91 | 7.08 | 7.06 | 7.04 | 7.06 | 15.44 | 15.58 | 15.60 | 15.55 | 15.47 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 7.06 | 7.03 | 7.12 | 6.92 | 7.12 | 15.57 | 15.46 | 15.54 | 15.38 | 15.43 |
| 5 GHz 802.11ax SU 20MHz | 6.78 | 6.83 | 6.83 | 6.79 | 6.96 | 9.43 | 9.37 | 9.47 | 9.37 | 9.37 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 6.96 | 7.07 | 7.1 | 7.07 | 6.95 | 14.57 | 14.69 | 14.60 | 14.69 | 14.67 |
| 5 GHz 802.11ac 40MHz | 6.98 | 6.88 | 6.94 | 6.96 | 6.93 | 13.38 | 13.38 | 13.27 | 13.35 | 13.26 |
| 5 GHz 802.11ax SU 40MHz | 6.71 | 6.75 | 6.59 | 6.6 | 6.7 | 9.37 | 9.35 | 9.27 | 9.29 | 9.28 |
| 5 GHz 802.11ac 80MHz | 6.54 | 6.56 | 6.52 | 6.54 | 6.57 | 12.37 | 12.44 | 12.43 | 12.39 | 12.39 |
| 5 GHz 802.11ax SU 80MHz | 6.51 | 6.55 | 6.2-59 | 6.55 | 6.57 | 9.39 | 9.40 | 9.44 | 9.30 | 9.35 |

Based on the most conservative measured triggering distance of 9mm, additional Body SAR measurements were required at 8mm from right side for the above modes.

Right Corner side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 |
| 2.4 GHz 802.11b | 19.67 | 19.69 | 19.57 | 19.73 | 19.58 | 10.72 | 10.6 | 10.72 | 10.73 | 10.66 |
| 2.4 GHz 802.11g | 17.82 | 17.87 | 17.88 | 17.96 | 17.99 | 9.65 | 9.65 | 9.67 | 9.57 | 9.57 |
| 2.4 GHz 802.11n | 16.57 | 16.38 | 16.48 | 16.56 | 16.40 | 9.23 | 9.33 | 9.25 | 9.41 | 9.37 |
| 2.4 GHz 802.11ax SU | 16.58 | 16.49 | 16.54 | 16.53 | 16.53 | 9.18 | 9.2 | 9.31 | 9.26 | 9.15 |
| 2.4 GHz Bluetooth | 14.12 | 14.16 | 14.13 | 14.25 | 14.15 | 4.62 | 4.49 | 4.54 | 4.56 | 4.61 |
| 5 GHz 802.11a (Except ch165) | 15.94 | 16.12 | 16.08 | 16.09 | 15.94 | 7.3 | 7.37 | 7.41 | 7.37 | 7.24 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.45 | 15.46 | 15.52 | 15.42 | 15.44 | 6.89 | 6.99 | 6.89 | 7.06 | 7.08 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 15.43 | 15.46 | 15.57 | 15.44 | 15.39 | 6.94 | 6.95 | 6.93 | 7.07 | 6.95 |
| 5 GHz 802.11ax SU 20MHz | 9.46 | 9.44 | 9.45 | 9.37 | 9.37 | 6.91 | 6.82 | 6.96 | 6.89 | 6.86 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 14.58 | 14.70 | 14.61 | 14.60 | 14.61 | 6.95 | 6.98 | 6.95 | 7.05 | 7.13 |
| 5 GHz 802.11ac 40MHz | 13.32 | 13.40 | 13.40 | 13.28 | 13.22 | 7.04 | 6.89 | 6.89 | 7.01 | 6.93 |
| 5 GHz 802.11ax SU 40MHz | 9.30 | 9.39 | 9.26 | 9.34 | 9.29 | 6.61 | 6.57 | 6.59 | 6.74 | 6.74 |
| 5 GHz 802.11ac 80MHz | 12.39 | 12.51 | 9.41 | 12.53 | 12.36 | 6.51 | 6.69 | 6.6 | 6.57 | 6.71 |
| 5 GHz 802.11ax SU 80MHz | 9.37 | 9.44 | 9.39 | 9.42 | 9.31 | 6.51 | 6.55 | 6.56 | 6.53 | 6.53 |

Right Corner side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 2.4 GHz 802.11b | 10.72 | 10.54 | 10.67 | 10.55 | 10.56 | 19.74 | 19.66 | 19.70 | 19.70 | 19.62 |
| 2.4 GHz 802.11g | 9.57 | 9.57 | 9.58 | 9.67 | 9.68 | 17.79 | 17.82 | 17.92 | 17.88 | 17.80 |
| 2.4 GHz 802.11n | 9.38 | 9.36 | 9.33 | 9.42 | 9.33 | 16.37 | 16.48 | 16.45 | 16.40 | 16.57 |
| 2.4 GHz 802.11ax SU | 9.15 | 9.29 | 9.3 | 9.3 | 9.19 | 16.60 | 16.63 | 16.51 | 16.46 | 16.59 |
| 2.4 GHz Bluetooth | 4.63 | 4.59 | 4.52 | 4.61 | 4.51 | 14.25 | 14.18 | 14.11 | 14.15 | 14.20 |
| 5 GHz 802.11a (Except ch165) | 7.31 | 7.23 | 7.31 | 7.39 | 7.3 | 16.04 | 16.13 | 15.95 | 16.12 | 15.98 |
| 5 GHz 802.11n 20MHz (Except ch165) | 7 | 6.89 | 6.97 | 7.02 | 6.89 | 15.41 | 15.42 | 15.50 | 15.57 | 15.42 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 7.02 | 7.08 | 6.99 | 6.96 | 7.11 | 15.54 | 15.48 | 15.49 | 15.46 | 15.41 |
| 5 GHz 802.11ax SU 20MHz | 6.87 | 6.82 | 6.79 | 6.94 | 6.97 | 9.42 | 9.51 | 9.50 | 9.52 | 9.44 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 6.99 | 7 | 7.08 | 7.14 | 7.13 | 14.54 | 14.61 | 14.51 | 14.57 | 14.71 |
| 5 GHz 802.11ac 40MHz | 7.04 | 6.99 | 6.94 | 7.05 | 6.99 | 13.27 | 13.26 | 13.37 | 13.27 | 13.33 |
| 5 GHz 802.11ax SU 40MHz | 6.59 | 6.65 | 6.62 | 6.72 | 6.6 | 9.22 | 9.27 | 9.39 | 9.34 | 9.35 |
| 5 GHz 802.11ac 80MHz | 6.59 | 6.52 | 6.51 | 6.59 | 6.59 | 12.48 | 12.33 | 12.49 | 12.41 | 12.42 |
| 5 GHz 802.11ax SU 80MHz | 6.58 | 6.51 | 6.51 | 6.51 | 6.51 | 9.45 | 9.42 | 9.36 | 9.34 | 9.34 |

Based on the most conservative measured triggering distance of 14mm, additional Body SAR measurements were required at 13mm from right corner side for the above modes.

Top side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 |
| 2.4 GHz 802.11b | 19.73 | 19.71 | 19.67 | 19.72 | 19.71 | 10.61 | 10.57 | 10.54 | 10.63 | 10.71 |
| 2.4 GHz 802.11g | 17.83 | 17.90 | 17.88 | 17.92 | 17.96 | 9.64 | 9.7 | 9.69 | 9.74 | 9.67 |
| 2.4 GHz 802.11n | 16.45 | 16.46 | 16.57 | 16.57 | 16.55 | 9.25 | 9.42 | 9.33 | 9.43 | 9.35 |
| 2.4 GHz 802.11ax SU | 16.48 | 16.47 | 16.56 | 16.63 | 16.46 | 9.3 | 9.2 | 9.2 | 9.32 | 9.23 |
| 2.4 GHz Bluetooth | 14.10 | 14.10 | 14.23 | 14.20 | 14.13 | 4.43 | 4.6 | 4.46 | 4.43 | 4.51 |
| 5 GHz 802.11a (Except ch165) | 15.99 | 16.00 | 16.10 | 16.00 | 16.01 | 7.42 | 7.34 | 7.41 | 7.36 | 7.3 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.50 | 15.49 | 15.51 | 15.45 | 15.54 | 6.98 | 7.03 | 7 | 7.07 | 6.93 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 15.49 | 15.49 | 15.53 | 15.45 | 15.54 | 7.09 | 7.08 | 7.02 | 7.02 | 6.94 |
| 5 GHz 802.11ax SU 20MHz | 9.45 | 9.34 | 9.32 | 9.49 | 9.48 | 6.8 | 6.83 | 6.86 | 6.92 | 6.94 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 14.57 | 14.66 | 14.64 | 14.53 | 14.64 | 6.99 | 7.04 | 7.05 | 6.99 | 7.04 |
| 5 GHz 802.11ac 40MHz | 13.38 | 13.23 | 13.28 | 13.41 | 13.25 | 7.04 | 7.07 | 7.03 | 6.97 | 6.89 |
| 5 GHz 802.11ax SU 40MHz | 9.27 | 9.35 | 9.37 | 9.24 | 9.35 | 6.66 | 6.67 | 6.63 | 6.63 | 6.56 |
| 5 GHz 802.11ac 80MHz | 12.37 | 12.51 | 9.25 | 12.38 | 12.49 | 6.58 | 6.7 | 6.74 | 6.68 | 6.76 |
| 5 GHz 802.11ax SU 80MHz | 9.47 | 9.33 | 9.48 | 9.30 | 9.40 | 6.58 | 6.51 | 6.52 | 6.55 | 6.59 |

Top side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 2.4 GHz 802.11b | 10.59 | 10.57 | 10.7 | 10.57 | 10.73 | 19.74 | 19.74 | 19.70 | 19.59 | 19.67 |
| 2.4 GHz 802.11g | 9.56 | 9.7 | 9.58 | 9.64 | 9.69 | 17.85 | 17.89 | 17.87 | 17.93 | 17.85 |
| 2.4 GHz 802.11n | 9.38 | 9.27 | 9.38 | 9.37 | 9.3 | 16.54 | 16.54 | 16.47 | 16.47 | 16.53 |
| 2.4 GHz 802.11ax SU | 9.2 | 9.32 | 9.26 | 9.32 | 9.33 | 16.62 | 16.49 | 16.58 | 16.62 | 16.53 |
| 2.4 GHz Bluetooth | 4.55 | 4.57 | 4.59 | 4.61 | 4.45 | 14.22 | 14.09 | 14.15 | 14.28 | 14.12 |
| 5 GHz 802.11a (Except ch165) | 7.42 | 7.25 | 7.29 | 7.3 | 7.31 | 16.12 | 15.99 | 15.96 | 16.11 | 16.09 |
| 5 GHz 802.11n 20MHz (Except ch165) | 7.02 | 7.01 | 6.88 | 7.06 | 6.89 | 15.56 | 15.59 | 15.53 | 15.53 | 15.42 |
| 5 GHz 802.11ac 20MHz (Except ch165) | 6.93 | 6.98 | 7 | 6.97 | 7 | 15.40 | 15.41 | 15.41 | 15.41 | 15.39 |
| 5 GHz 802.11ax SU 20MHz | 6.79 | 6.82 | 6.89 | 6.82 | 6.94 | 9.48 | 9.49 | 9.44 | 9.47 | 9.49 |
| 5 GHz 802.11n 40MHz (Except ch62,102) | 6.96 | 7.02 | 7.07 | 7.09 | 7.06 | 14.70 | 14.61 | 14.55 | 14.67 | 14.60 |
| 5 GHz 802.11ac 40MHz | 6.87 | 6.95 | 6.9 | 6.9 | 7.04 | 13.24 | 13.38 | 13.31 | 13.23 | 13.28 |
| 5 GHz 802.11ax SU 40MHz | 6.65 | 6.56 | 6.62 | 6.62 | 6.66 | 9.30 | 9.21 | 9.25 | 9.26 | 9.41 |
| 5 GHz 802.11ac 80MHz | 6.56 | 6.53 | 6.51 | 6.52 | 6.56 | 12.35 | 12.36 | 12.50 | 12.36 | 12.36 |
| 5 GHz 802.11ax SU 80MHz | 6.53 | 6.59 | 6.57 | 6.58 | 6.54 | 9.35 | 9.45 | 9.31 | 9.28 | 9.33 |

Based on the most conservative measured triggering distance of 16mm, additional Body SAR measurements were required at 15mm from top side for the above modes.

3.3 Proximity Sensor Coverage for SAR measurements

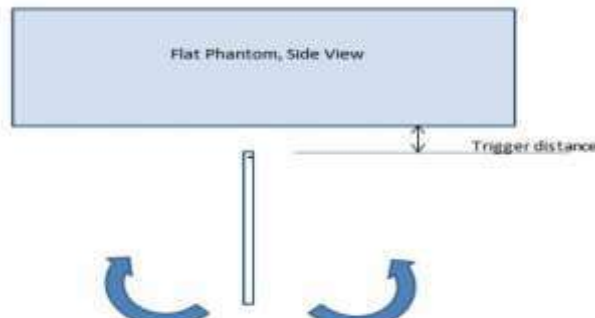
(KDB 616217 D04v01r02 §6.3)

As there is no spatial offset between the antenna and the proximity sensor element, proximity sensor coverage did not need to be assessed.

3.4 Proximity Sensor Tilt Angle Assessment

(KDB 616217 D04v01r02 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band. The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity sensor tilt angle assessment (Bottom side) KDB 616217 §6.4

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Top side)

| Band (MHz) | Minimum distance at which power reduction was maintained over-45° | Power reduction status | | | | | | | | | | | |
|------------|---|------------------------|------|------|------|------|----|-----|-----|-----|-----|-----|----|
| | | -45° | -40° | -30° | -20° | -10° | 0° | 10° | 20° | 30° | 40° | 45° | |
| 2450 MHz | 16 mm | On | On | On | On | On | On | On | On | On | On | On | On |
| 5000 Mhz | 16 mm | On | On | On | On | On | On | On | On | On | On | On | On |

3.5 Resulting test positions for Body SAR measurements

| Wireless technologies | Position | §6.2 Triggering Distance [mm] | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Body SAR [mm] |
|-----------------------|--------------|-------------------------------|---------------|-----------------|---------------------------------------|
| WLAN/BT Ant 1 | Rear | 11 | N/A | N/A | 10 |
| | Right | 9 | N/A | N/A | 8 |
| | Right Corner | 14 | N/A | N/A | 13 |
| | Top | 16 | N/A | N/A | 15 |

Note: FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Proximity use conditions.

4. WLAN/BT Ant 2

4.1 Power reduction Verification

| Mechanism | Mode/Band | Device State Index | | |
|---------------|--|--------------------------|------------------------------|------------------------------|
| | | Un-triggered (Max Power) | Mechanism 1: (Reduced Power) | Mechanism 2: (Reduced Power) |
| Grip on | 2.4 GHz 802.11b | 19.66 | 10.24 | |
| Grip on | 2.4 GHz 802.11g | 17.77 | 9.31 | |
| Grip on | 2.4 GHz 802.11n | 16.42 | 9.03 | |
| Grip on | 2.4 GHz 802.11ax SU | 16.32 | 8.99 | |
| Grip on | 2.4 GHz Bluetooth | 14.07 | 4.61 | |
| Grip on | 5 GHz 802.11a (Except ch165) | 16.11 | 7.22 | |
| Grip on | 5 GHz 802.11n 20MHz (Except ch165) | 15.48 | 6.87 | |
| Grip on | 5 GHz 802.11ac 20MHz | 15.39 | 6.78 | |
| Grip on | 5 GHz 802.11ax SU 20MHz | 9.33 | 6.67 | |
| Grip on | 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.54 | 6.68 | |
| Grip on | 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.28 | 6.54 | |
| Grip on | 5 GHz 802.11ax SU 40MHz | 9.29 | 6.51 | |
| Grip on | 5 GHz 802.11ac 80MHz | 12.39 | 6.56 | |
| Grip on | 5 GHz 802.11ax SU 80MHz | 9.31 | 6.53 | |
| mmWave active | 2.4 GHz 802.11b | 19.66 | 19.66 | |
| mmWave active | 2.4 GHz 802.11g | 17.77 | 17.77 | |
| mmWave active | 2.4 GHz 802.11n | 16.42 | 16.42 | |
| mmWave active | 2.4 GHz 802.11ax SU | 16.32 | 16.32 | |
| mmWave active | 2.4 GHz Bluetooth | 14.07 | 14.07 | |

| | | | | |
|----------------------------|---|-------|-------|------|
| mmWave active | 5 GHz 802.11a (Except ch165) | 16.11 | 16.11 | |
| mmWave active | 5 GHz 802.11n 20MHz (Except ch165) | 15.48 | 15.48 | |
| mmWave active | 5 GHz 802.11ac 20MHz | 15.39 | 15.39 | |
| mmWave active | 5 GHz 802.11ax SU 20MHz | 9.33 | 9.33 | |
| mmWave active | 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.54 | 14.54 | |
| mmWave active | 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.28 | 13.28 | |
| mmWave active | 5 GHz 802.11ax SU 40MHz | 9.29 | 9.29 | |
| mmWave active | 5 GHz 802.11ac 80MHz | 12.39 | 12.39 | |
| mmWave active | 5 GHz 802.11ax SU 80MHz | 9.31 | 9.31 | |
| Grip on then mmWave active | 5 GHz 802.11ax SU 80MHz | 19.66 | 10.24 | 7.33 |
| Grip on then mmWave active | 2.4 GHz 802.11g | 17.77 | 9.31 | 7.01 |
| Grip on then mmWave active | 2.4 GHz 802.11n | 16.42 | 9.03 | 6.83 |
| Grip on then mmWave active | 2.4 GHz 802.11ax SU | 16.32 | 8.99 | 6.69 |
| Grip on then mmWave active | 2.4 GHz Bluetooth | 14.07 | 4.61 | 4.58 |
| Grip on then mmWave active | 5 GHz 802.11a (Except ch165) | 16.11 | 7.22 | 6.16 |
| Grip on then mmWave active | 5 GHz 802.11n 20MHz (Except ch165) | 15.48 | 6.87 | 6.12 |
| Grip on then mmWave active | 5 GHz 802.11ac 20MHz | 15.39 | 6.78 | 6.00 |
| Grip on then mmWave active | 5 GHz 802.11ax SU 20MHz | 9.33 | 6.67 | 6.16 |
| Grip on then mmWave active | 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.54 | 6.68 | 6.08 |
| Grip on then mmWave active | 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.28 | 6.54 | 5.94 |
| Grip on then mmWave active | 5 GHz 802.11ax SU 40MHz | 9.29 | 6.51 | 6.11 |

| | | | | |
|----------------------------|---|-------|-------|------|
| Grip on then mmWave active | 5 GHz 802.11ac 80MHz | 12.39 | 6.56 | 6.08 |
| Grip on then mmWave active | 5 GHz 802.11ax SU 80MHz | 9.31 | 6.53 | 6.01 |
| mmWave active then Grip on | 2.4 GHz 802.11b | 19.66 | 19.66 | 7.33 |
| mmWave active then Grip on | 2.4 GHz 802.11g | 17.77 | 17.77 | 7.01 |
| mmWave active then Grip on | 2.4 GHz 802.11n | 16.42 | 16.42 | 6.83 |
| mmWave active then Grip on | 2.4 GHz 802.11ax SU | 16.32 | 16.32 | 6.69 |
| mmWave active then Grip on | 2.4 GHz Bluetooth | 14.07 | 14.07 | 4.58 |
| mmWave active then Grip on | 5 GHz 802.11a (Except ch165) | 16.11 | 16.11 | 6.16 |
| mmWave active then Grip on | 5 GHz 802.11n 20MHz (Except ch165) | 15.48 | 15.48 | 6.12 |
| mmWave active then Grip on | 5 GHz 802.11ac 20MHz | 15.39 | 15.39 | 6.00 |
| mmWave active then Grip on | 5 GHz 802.11ax SU 20MHz | 9.33 | 9.33 | 6.16 |
| mmWave active then Grip on | 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.54 | 14.54 | 6.08 |
| mmWave active then Grip on | 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.28 | 13.28 | 5.94 |
| mmWave active then Grip on | 5 GHz 802.11ax SU 40MHz | 9.29 | 9.29 | 6.11 |
| mmWave active then Grip on | 5 GHz 802.11ac 80MHz | 12.39 | 12.39 | 6.08 |
| mmWave active then Grip on | 5 GHz 802.11ax SU 80MHz | 9.31 | 9.31 | 6.01 |

4.2 Proximity sensor triggering Distance Verification.

| Tissue simulating liquid | Trigger distance – Rear | | Trigger distance – Left Side | | Trigger distance – Left Corner Side | | Trigger distance – Top | |
|--------------------------|----------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------------|-------------------------------|----------------------------|-------------------------------|
| | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] | Moving toward phantom [mm] | Moving away from phantom [mm] |
| 2450MHz | 12 | 13 | 8 | 9 | 9 | 10 | 9 | 10 |
| 5000MHz | 12 | 13 | 8 | 9 | 9 | 10 | 9 | 10 |

Rear side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|------|
| | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |
| 2.4 GHz 802.11b | 19.68 | 19.71 | 19.69 | 19.62 | 19.56 | 10.59 | 10.7 | 10.57 | 10.73 | 10.7 |
| 2.4 GHz 802.11g | 17.90 | 17.90 | 17.80 | 17.98 | 17.84 | 9.57 | 9.62 | 9.63 | 9.62 | 9.69 |
| 2.4 GHz 802.11n | 16.45 | 16.37 | 16.39 | 16.50 | 16.54 | 9.41 | 9.34 | 9.35 | 9.42 | 9.37 |
| 2.4 GHz 802.11ax SU | 13.50 | 13.61 | 13.49 | 13.57 | 13.50 | 9.1 | 9.01 | 9.08 | 9.06 | 8.98 |
| 2.4 GHz Bluetooth | 14.27 | 14.19 | 14.20 | 14.24 | 14.28 | 4.53 | 4.41 | 4.39 | 4.48 | 4.35 |
| 5 GHz 802.11a (Except ch165) | 16.09 | 15.98 | 16.00 | 16.13 | 16.11 | 7.24 | 7.22 | 7.23 | 7.38 | 7.38 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.56 | 15.47 | 15.58 | 15.41 | 15.55 | 7 | 7.05 | 7.01 | 6.98 | 6.93 |
| 5 GHz 802.11ac 20MHz | 15.47 | 15.44 | 15.55 | 15.55 | 15.47 | 6.98 | 7.04 | 6.95 | 6.94 | 7.08 |
| 5 GHz 802.11ax SU 20MHz | 9.35 | 9.34 | 9.35 | 9.51 | 9.36 | 6.89 | 6.88 | 6.84 | 6.97 | 6.98 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.83 | 14.88 | 14.96 | 14.86 | 14.86 | 6.97 | 7 | 7.04 | 7.04 | 7.04 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.31 | 13.24 | 13.31 | 13.26 | 13.29 | 6.87 | 7.04 | 6.99 | 6.93 | 6.94 |

| | | | | | | | | | | |
|-------------------------|-------|-------|------|-------|-------|------|------|------|------|------|
| 5 GHz 802.11ax SU 40MHz | 9.34 | 9.38 | 9.35 | 9.38 | 9.22 | 6.74 | 6.64 | 6.62 | 6.74 | 6.61 |
| 5 GHz 802.11ac 80MHz | 12.41 | 12.39 | 9.27 | 12.35 | 12.50 | 6.63 | 6.58 | 6.68 | 6.56 | 6.68 |
| 5 GHz 802.11ax SU 80MHz | 9.36 | 9.48 | 9.44 | 9.28 | 9.35 | 6.51 | 6.69 | 6.65 | 6.58 | 6.56 |

Rear side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|--|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 2.4 GHz 802.11b | 10.66 | 10.54 | 10.67 | 10.56 | 10.67 | 19.68 | 19.58 | 19.69 | 19.56 | 19.71 |
| 2.4 GHz 802.11g | 9.63 | 9.68 | 9.55 | 9.69 | 9.65 | 17.84 | 17.79 | 17.97 | 17.98 | 17.91 |
| 2.4 GHz 802.11n | 9.29 | 9.28 | 9.38 | 9.24 | 9.33 | 16.55 | 16.42 | 16.55 | 16.38 | 16.46 |
| 2.4 GHz 802.11ax SU | 9 | 9 | 9.13 | 9.1 | 9.02 | 13.46 | 13.53 | 13.55 | 13.53 | 13.57 |
| 2.4 GHz Bluetooth | 4.35 | 4.45 | 4.41 | 4.35 | 4.53 | 14.15 | 14.14 | 14.24 | 14.26 | 14.26 |
| 5 GHz 802.11a (Except ch165) | 7.36 | 7.4 | 7.29 | 7.23 | 7.38 | 15.95 | 16.03 | 16.01 | 16.02 | 16.09 |
| 5 GHz 802.11n 20MHz (Except ch165) | 6.91 | 6.89 | 6.91 | 6.94 | 7.04 | 15.56 | 15.61 | 15.54 | 15.59 | 15.53 |
| 5 GHz 802.11ac 20MHz | 6.95 | 6.99 | 7 | 7.12 | 7.05 | 15.51 | 15.53 | 15.39 | 15.48 | 15.45 |
| 5 GHz 802.11ax SU 20MHz | 6.98 | 6.86 | 6.8 | 6.94 | 6.78 | 9.32 | 9.45 | 9.39 | 9.46 | 9.39 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 7.06 | 7.06 | 7.1 | 7.11 | 6.97 | 14.85 | 14.86 | 14.80 | 14.90 | 14.86 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 7 | 6.92 | 6.91 | 7.06 | 7.02 | 13.23 | 13.28 | 13.28 | 13.35 | 13.28 |
| 5 GHz 802.11ax SU 40MHz | 6.58 | 6.71 | 6.74 | 6.61 | 6.6 | 9.32 | 9.24 | 9.36 | 9.33 | 9.21 |
| 5 GHz 802.11ac 80MHz | 6.53 | 6.48 | 6.59 | 6.64 | 6.47 | 12.39 | 12.38 | 12.44 | 12.45 | 12.40 |

| | | | | | | | | | | |
|-------------------------|------|------|------|------|------|------|------|------|------|------|
| 5 GHz 802.11ax SU 80MHz | 6.63 | 6.57 | 6.64 | 6.54 | 6.52 | 9.46 | 9.39 | 9.32 | 9.33 | 9.35 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|

Based on the most conservative measured triggering distance of 12mm, additional Body SAR measurements were required at 11mm from rear side for the above modes.

Left side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |
| 2.4 GHz 802.11b | 19.67 | 19.61 | 19.54 | 19.71 | 19.68 | 10.57 | 10.7 | 10.54 | 10.59 | 10.63 |
| 2.4 GHz 802.11g | 17.94 | 17.89 | 17.82 | 17.86 | 17.98 | 9.74 | 9.61 | 9.68 | 9.68 | 9.73 |
| 2.4 GHz 802.11n | 16.46 | 16.39 | 16.43 | 16.54 | 16.56 | 9.27 | 9.4 | 9.24 | 9.3 | 9.31 |
| 2.4 GHz 802.11ax SU | 13.57 | 13.46 | 13.62 | 13.55 | 13.43 | 9.05 | 8.97 | 9 | 9.09 | 9.04 |
| 2.4 GHz Bluetooth | 14.25 | 14.20 | 14.25 | 14.10 | 14.23 | 4.52 | 4.37 | 4.36 | 4.51 | 4.55 |
| 5 GHz 802.11a (Except ch165) | 15.97 | 15.95 | 15.96 | 15.95 | 15.95 | 7.28 | 7.31 | 7.35 | 7.34 | 7.4 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.51 | 15.61 | 15.50 | 15.46 | 15.47 | 6.96 | 6.92 | 6.98 | 7.03 | 6.91 |
| 5 GHz 802.11ac 20MHz | 15.42 | 15.53 | 15.41 | 15.45 | 15.49 | 7.12 | 6.92 | 7.07 | 6.98 | 7.08 |
| 5 GHz 802.11ax SU 20MHz | 9.40 | 9.34 | 9.48 | 9.51 | 9.37 | 6.83 | 6.88 | 6.78 | 6.85 | 6.9 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.87 | 14.92 | 14.82 | 14.87 | 14.96 | 6.99 | 7.08 | 7.04 | 7.04 | 7 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.23 | 13.30 | 13.23 | 13.38 | 13.36 | 7 | 7.06 | 7 | 6.93 | 6.93 |
| 5 GHz 802.11ax SU 40MHz | 9.34 | 9.26 | 9.38 | 9.23 | 9.39 | 6.74 | 6.64 | 6.56 | 6.74 | 6.67 |
| 5 GHz 802.11ac 80MHz | 12.41 | 12.36 | 9.33 | 12.44 | 12.38 | 6.5 | 6.65 | 6.59 | 6.7 | 6.59 |
| 5 GHz 802.11ax SU 80MHz | 9.38 | 9.46 | 9.36 | 9.30 | 9.45 | 6.63 | 6.5 | 6.68 | 6.51 | 6.53 |

Left side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 2.4 GHz 802.11b | 10.56 | 10.58 | 10.67 | 10.61 | 10.53 | 19.74 | 19.70 | 19.60 | 19.64 | 19.61 |
| 2.4 GHz 802.11g | 9.68 | 9.71 | 9.68 | 9.56 | 9.61 | 17.88 | 17.97 | 17.88 | 17.87 | 17.90 |
| 2.4 GHz 802.11n | 9.32 | 9.42 | 9.25 | 9.34 | 9.34 | 16.41 | 16.45 | 16.45 | 16.55 | 16.43 |
| 2.4 GHz 802.11ax SU | 9.03 | 8.95 | 8.95 | 9.05 | 9.04 | 13.53 | 13.63 | 13.61 | 13.61 | 13.59 |
| 2.4 GHz Bluetooth | 4.37 | 4.38 | 4.4 | 4.51 | 4.43 | 14.24 | 14.28 | 14.17 | 14.26 | 14.18 |
| 5 GHz 802.11a (Except ch165) | 7.25 | 7.34 | 7.38 | 7.37 | 7.32 | 15.95 | 16.12 | 15.95 | 16.02 | 15.96 |
| 5 GHz 802.11n 20MHz (Except ch165) | 7.03 | 6.88 | 7.03 | 6.95 | 6.92 | 15.49 | 15.58 | 15.43 | 15.42 | 15.61 |
| 5 GHz 802.11ac 20MHz | 6.98 | 6.94 | 6.92 | 7.03 | 7.1 | 15.46 | 15.42 | 15.53 | 15.57 | 15.40 |
| 5 GHz 802.11ax SU 20MHz | 6.93 | 6.87 | 6.8 | 6.89 | 6.79 | 9.39 | 9.46 | 9.34 | 9.48 | 9.33 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 7.09 | 7.01 | 7.13 | 7.08 | 7.12 | 14.95 | 14.84 | 14.88 | 14.94 | 14.91 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 6.99 | 7.04 | 6.93 | 6.96 | 6.93 | 13.26 | 13.34 | 13.36 | 13.23 | 13.23 |
| 5 GHz 802.11ax SU 40MHz | 6.61 | 6.61 | 6.7 | 6.68 | 6.64 | 9.31 | 9.38 | 9.25 | 9.34 | 9.30 |
| 5 GHz 802.11ac 80MHz | 6.56 | 6.52 | 6.49 | 6.56 | 6.52 | 12.46 | 12.45 | 12.41 | 12.53 | 12.37 |
| 5 GHz 802.11ax SU 80MHz | 6.52 | 6.59 | 6.56 | 6.49 | 6.65 | 9.32 | 9.35 | 9.42 | 9.38 | 9.41 |

Based on the most conservative measured triggering distance of 8mm, additional Body SAR measurements were required at 7mm from left side for the above modes.

Left Corner side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| 2.4 GHz 802.11b | 19.58 | 19.59 | 19.62 | 19.63 | 19.73 | 10.54 | 10.73 | 10.72 | 10.6 | 10.65 |
| 2.4 GHz 802.11g | 17.95 | 17.99 | 17.93 | 17.84 | 17.79 | 9.56 | 9.74 | 9.72 | 9.62 | 9.67 |
| 2.4 GHz 802.11n | 16.50 | 16.55 | 16.46 | 16.47 | 16.45 | 9.31 | 9.4 | 9.36 | 9.3 | 9.34 |
| 2.4 GHz 802.11ax SU | 13.60 | 13.57 | 13.59 | 13.63 | 13.55 | 9.05 | 9.01 | 9.12 | 8.93 | 8.93 |
| 2.4 GHz Bluetooth | 14.19 | 14.12 | 14.13 | 14.14 | 14.21 | 4.55 | 4.43 | 4.52 | 4.53 | 4.43 |
| 5 GHz 802.11a (Except ch165) | 15.97 | 16.09 | 15.98 | 16.08 | 16.11 | 7.22 | 7.35 | 7.4 | 7.41 | 7.31 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.50 | 15.59 | 15.41 | 15.44 | 15.47 | 7.06 | 6.97 | 6.97 | 6.91 | 7.05 |
| 5 GHz 802.11ac 20MHz | 15.39 | 15.45 | 15.39 | 15.53 | 15.42 | 6.95 | 6.96 | 7.05 | 6.94 | 7.09 |
| 5 GHz 802.11ax SU 20MHz | 9.33 | 9.51 | 9.35 | 9.32 | 9.32 | 6.78 | 6.98 | 6.84 | 6.91 | 6.92 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.93 | 14.88 | 14.95 | 14.94 | 14.82 | 7.1 | 7.15 | 7.01 | 6.95 | 6.98 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.24 | 13.27 | 13.27 | 13.34 | 13.38 | 7.01 | 7.03 | 7.03 | 7.06 | 6.96 |
| 5 GHz 802.11ax SU 40MHz | 9.41 | 9.40 | 9.32 | 9.25 | 9.40 | 6.67 | 6.67 | 6.63 | 6.64 | 6.68 |
| 5 GHz 802.11ac 80MHz | 12.44 | 12.38 | 9.38 | 12.36 | 12.39 | 6.63 | 6.64 | 6.61 | 6.67 | 6.74 |
| 5 GHz 802.11ax SU 80MHz | 9.33 | 9.42 | 9.45 | 9.42 | 9.45 | 6.54 | 6.61 | 6.66 | 6.49 | 6.6 |

Left Corner side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-------|------|-------|-----------|-------|-------|-------|-------|-------|
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2.4 GHz 802.11b | 10.6 5 | 10.61 | 10.6 | 10.62 | 10.6 2 | 19.63 | 19.71 | 19.64 | 19.60 | 19.57 |
| 2.4 GHz 802.11g | 9.65 | 9.74 | 9.61 | 9.69 | 9.61 | 17.95 | 17.99 | 17.87 | 17.99 | 17.81 |
| 2.4 GHz 802.11n | 9.42 | 9.27 | 9.26 | 9.29 | 9.37 | 16.53 | 16.57 | 16.38 | 16.54 | 16.38 |
| 2.4 GHz 802.11ax SU | 9.02 | 9.13 | 8.97 | 9.08 | 9.07 | 13.45 | 13.62 | 13.62 | 13.45 | 13.60 |
| 2.4 GHz Bluetooth | 4.48 | 4.37 | 4.51 | 4.39 | 4.48 | 14.20 | 14.12 | 14.21 | 14.09 | 14.13 |
| 5 GHz 802.11a (Except ch165) | 7.33 | 7.26 | 7.38 | 7.34 | 7.34 | 16.08 | 16.07 | 16.06 | 15.97 | 15.94 |
| 5 GHz 802.11n 20MHz (Except ch165) | 6.98 | 7.07 | 6.98 | 6.88 | 6.97 | 15.47 | 15.57 | 15.45 | 15.53 | 15.49 |
| 5 GHz 802.11ac 20MHz | 7.08 | 7.06 | 6.96 | 7 | 7.05 | 15.40 | 15.42 | 15.41 | 15.40 | 15.57 |
| 5 GHz 802.11ax SU 20MHz | 6.84 | 6.89 | 6.89 | 6.98 | 6.93 | 9.45 | 9.43 | 9.45 | 9.48 | 9.47 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 7.14 | 6.99 | 6.97 | 7.13 | 7.03 | 14.88 | 14.85 | 14.83 | 14.84 | 14.88 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 6.9 | 7.04 | 6.94 | 6.99 | 7.06 | 13.26 | 13.25 | 13.27 | 13.25 | 13.35 |
| 5 GHz 802.11ax SU 40MHz | 6.59 | 6.67 | 6.72 | 6.58 | 6.7 | 9.34 | 9.25 | 9.36 | 9.27 | 9.38 |
| 5 GHz 802.11ac 80MHz | 6.63 | 6.67 | 6.56 | 6.48 | 6.61 | 12.41 | 12.48 | 12.53 | 12.45 | 12.46 |
| 5 GHz 802.11ax SU 80MHz | 6.65 | 6.55 | 6.62 | 6.59 | 6.52 | 9.40 | 9.45 | 9.47 | 9.35 | 9.47 |

Based on the most conservative measured triggering distance of 9mm, additional Body SAR measurements were required at 8mm from left corner side for the above modes.

Top side – EUT Moving toward (trigger) to the Phantom

| Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| 2.4 GHz 802.11b | 19.73 | 19.73 | 19.66 | 19.74 | 19.64 | 10.58 | 10.53 | 10.72 | 10.67 | 10.64 |
| 2.4 GHz 802.11g | 17.88 | 17.93 | 17.98 | 17.97 | 17.84 | 9.74 | 9.66 | 9.71 | 9.69 | 9.54 |
| 2.4 GHz 802.11n | 16.54 | 16.37 | 16.52 | 16.54 | 16.49 | 9.43 | 9.29 | 9.36 | 9.41 | 9.32 |
| 2.4 GHz 802.11ax SU | 13.55 | 13.46 | 13.52 | 13.62 | 13.47 | 9.12 | 9.02 | 9.04 | 9 | 9.05 |
| 2.4 GHz Bluetooth | 14.15 | 14.26 | 14.22 | 14.27 | 14.18 | 4.37 | 4.43 | 4.54 | 4.53 | 4.39 |
| 5 GHz 802.11a (Except ch165) | 16.02 | 16.08 | 16.11 | 16.13 | 16.02 | 7.29 | 7.33 | 7.25 | 7.3 | 7.26 |
| 5 GHz 802.11n 20MHz (Except ch165) | 15.46 | 15.58 | 15.45 | 15.59 | 15.53 | 6.99 | 7.04 | 6.93 | 6.99 | 6.92 |
| 5 GHz 802.11ac 20MHz | 15.47 | 15.54 | 15.47 | 15.42 | 15.40 | 7.06 | 7 | 6.93 | 6.96 | 7.01 |
| 5 GHz 802.11ax SU 20MHz | 9.43 | 9.42 | 9.44 | 9.45 | 9.49 | 6.93 | 6.96 | 6.82 | 6.78 | 6.89 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 14.83 | 14.87 | 14.98 | 14.96 | 14.95 | 7.13 | 7 | 7.13 | 7.07 | 7.1 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 13.28 | 13.38 | 13.38 | 13.29 | 13.35 | 6.88 | 7.05 | 6.99 | 6.94 | 6.9 |
| 5 GHz 802.11ax SU 40MHz | 9.27 | 9.39 | 9.41 | 9.25 | 9.22 | 6.69 | 6.6 | 6.65 | 6.74 | 6.56 |
| 5 GHz 802.11ac 80MHz | 12.33 | 12.42 | 9.37 | 12.44 | 12.38 | 6.62 | 6.69 | 6.59 | 6.75 | 6.56 |
| 5 GHz 802.11ax SU 80MHz | 9.28 | 9.38 | 9.43 | 9.43 | 9.43 | 6.55 | 6.51 | 6.58 | 6.58 | 6.68 |

Top side – EUT Moving away (Release) from the Phantom

| Mode / Distance | Distance to DUT Output power (dBm) | | | | | | | | | |
|---|------------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2.4 GHz 802.11b | 10.7 1 | 10.7 3 | 10.69 | 10.72 | 10.59 | 19.71 | 19.65 | 19.70 | 19.57 | 19.60 |
| 2.4 GHz 802.11g | 9.59 | 9.69 | 9.71 | 9.63 | 9.66 | 17.98 | 17.87 | 17.92 | 17.92 | 17.79 |
| 2.4 GHz 802.11n | 9.26 | 9.33 | 9.35 | 9.38 | 9.31 | 16.57 | 16.53 | 16.53 | 16.51 | 16.40 |
| 2.4 GHz 802.11ax SU | 8.94 | 9.1 | 9.13 | 8.96 | 9.07 | 13.61 | 13.60 | 13.63 | 13.48 | 13.57 |
| 2.4 GHz Bluetooth | 4.39 | 4.53 | 4.4 | 4.37 | 4.38 | 14.15 | 14.11 | 14.20 | 14.26 | 14.13 |
| 5 GHz 802.11a (Except ch165) | 7.38 | 7.4 | 7.25 | 7.24 | 7.23 | 15.96 | 16.10 | 15.98 | 15.98 | 16.09 |
| 5 GHz 802.11n 20MHz (Except ch165) | 6.94 | 7 | 7.01 | 7.02 | 6.89 | 15.42 | 15.46 | 15.41 | 15.60 | 15.53 |
| 5 GHz 802.11ac 20MHz | 7.11 | 6.95 | 7.09 | 7.02 | 6.96 | 15.57 | 15.52 | 15.51 | 15.54 | 15.57 |
| 5 GHz 802.11ax SU 20MHz | 6.86 | 6.87 | 6.9 | 6.88 | 6.82 | 9.40 | 9.50 | 9.49 | 9.42 | 9.41 |
| 5 GHz 802.11n 40MHz (Except ch62 and 102) | 7.02 | 7.01 | 7.09 | 7.15 | 7.05 | 14.98 | 14.93 | 14.89 | 14.84 | 14.92 |
| 5 GHz 802.11ac 40MHz (Except ch62 and 102) | 6.98 | 7.01 | 7.03 | 7.02 | 7.03 | 13.23 | 13.23 | 13.27 | 13.41 | 13.26 |
| 5 GHz 802.11ax SU 40MHz | 6.63 | 6.64 | 6.59 | 6.59 | 6.66 | 9.31 | 9.31 | 9.25 | 9.38 | 9.26 |
| 5 GHz 802.11ac 80MHz | 6.57 | 6.6 | 6.61 | 6.62 | 6.58 | 12.50 | 12.45 | 12.45 | 12.35 | 12.47 |
| 5 GHz 802.11ax SU 80MHz | 6.62 | 6.6 | 6.59 | 6.52 | 6.67 | 9.37 | 9.29 | 9.35 | 9.31 | 9.33 |

Based on the most conservative measured triggering distance of 9mm, additional Body SAR measurements were required at 8mm from top side for the above modes.

4.3 Proximity Sensor Coverage for SAR measurements

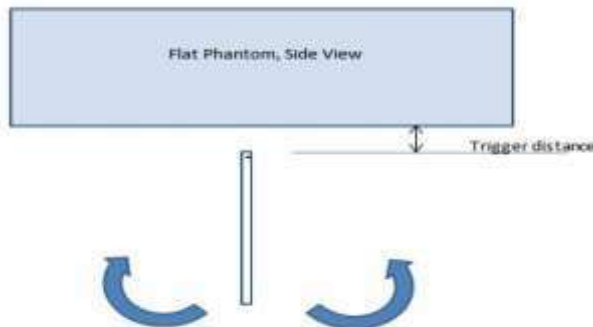
(KDB 616217 D04v01r02 §6.3)

As there is no spatial offset between the antenna and the proximity sensor element, proximity sensor coverage did not need to be assessed.

4.4 Proximity Sensor Tilt Angle Assessment

(KDB 616217 D04v01r02 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band. The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity sensor tilt angle assessment (Bottom side) KDB 616217 §6.4

Summary of Tablet Tilt Angle influence to Proximity Sensor Triggering (Top side)

| Band (MHz) | Minimum distance at which power reduction was maintained over-45° | Power reduction status | | | | | | | | | | | |
|------------|---|------------------------|------|------|------|------|----|-----|-----|-----|-----|-----|----|
| | | -45° | -40° | -30° | -20° | -10° | 0° | 10° | 20° | 30° | 40° | 45° | |
| 2450 MHz | 9 mm | On | On | On | On | On | On | On | On | On | On | On | On |
| 5000 Mhz | 9 mm | On | On | On | On | On | On | On | On | On | On | On | On |

4.5 Resulting test positions for Body SAR measurements

| Wireless technologies | Position | §6.2 Triggering Distance [mm] | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Body SAR [mm] |
|-----------------------|-------------|-------------------------------|---------------|-----------------|---------------------------------------|
| WLAN/BT Ant 2 | Rear | 12 | N/A | N/A | 11 |
| | Left | 8 | N/A | N/A | 7 |
| | Left Corner | 9 | N/A | N/A | 8 |
| | Top | 9 | N/A | N/A | 8 |

Note: FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Proximity use conditions.