# Annex A. Plots of SAR and Power Density System Verification

The plots for system verification are shown as follows.

## Measurement Report

## P01 UNII-5_802.11ax HE160_Bottom_0mm_Ch47_Sample1_Ant 1_P-Sensor_w

## Device under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---|---|---|---|
| BEDW-WTW-P21080874 | 312.0 x 220.0 x 12.0 | | Laptop |

## Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|---|
| Flat, | Bottom 0.00 | U-NII-5 | WLAN, 10755-AAC | 6185.0 47 | 5.6 | 5.69 | 34.3 |

## Hardware Setup

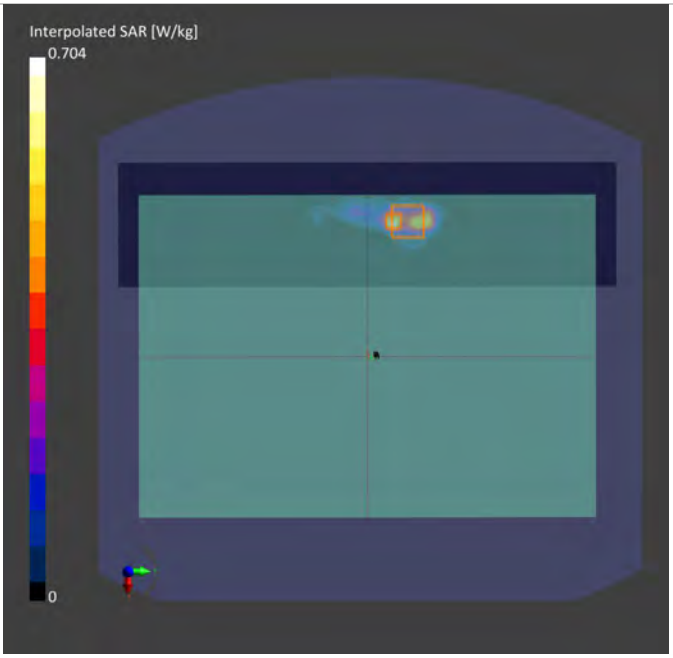
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| ELI V8.0 (20deg probe tilt) - 2105 | H50T72N1 , 2021-Sep-30 | EX3DV4 - SN7554, 2021-08-26 | DAE4 Sn1589, 2021-08-20 |

## Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 85.0 x 340.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

## Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2021-09-30 | 2021-09-30 |
| psSAR1g [W/Kg] | 0.403 | 0.564 |
| psSAR10g [W/Kg] | 0.124 | 0.134 |
| Power Drift [dB] | -0.06 | 0.02 |



**Test Lab: Bureau Veritas ADT SAR/HAC/PD Testing Lab**

**Power Density Plot No.:**

**P01 UNII-5_802.11ax HE160_Bottom_0mm_Ch79_Sample1_Ant 0_P-Sensor_w**

## Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---|---|---|---|
| BEDW-WTW-P21080874 | 312.0 x 220.0 x 12.0 | | Laptop |

## Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|---|---|---|---|---|---|
| 5GAir | Bottom<br>2.00 | U-NII-5 | WLAN<br>10755 | 6345.0<br>79 | 1.0 |

## Hardware Setup

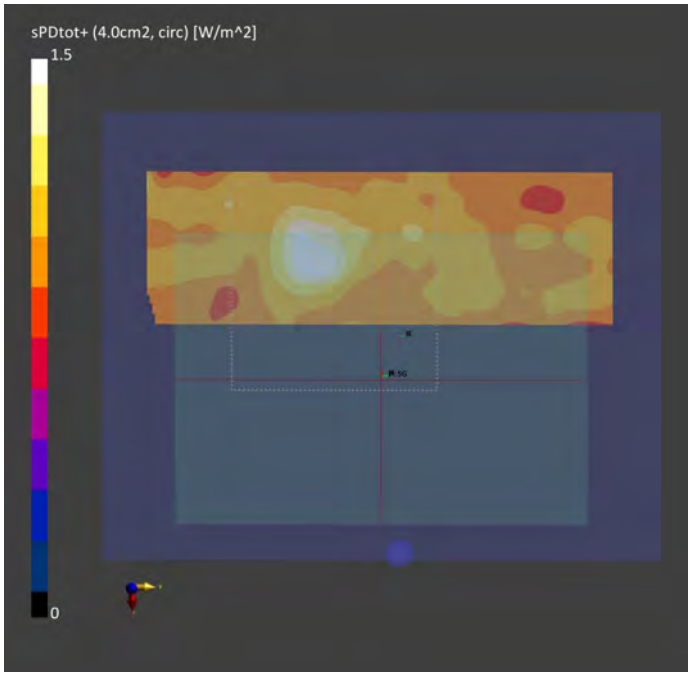
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| mmWave | Air--- | EUmmWV4 - SN9438_F1-55GHz, 2021-07-26 | DAE4 Sn1589, 2021-08-20 |

## Scan Setup

| | 5G Scan |
|---|---|
| Grid Extents [mm] | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 2.0 |

## Measurement Results

| | 5G Scan |
|---|---|
| Date | 2021-09-30 |
| Avg. Area [cm²] | 4.00 |
| $pS_{tot}avg[W/m^2]$ | 1.50 |
| $pS_{n}avg$ [W/m²] | 1.34 |
| $E_{peak}$ [V/m] | 39.5 |
| Power Drift [dB] | 0.06 |



# Annex B. Plots of SAR and Power Density Measurement

The plots for highest measured SAR and Power Density in each exposure configuration, wireless mode and frequency band combination are shown as follows.

## Measurement

### S01 System Check_H6.5GHz_210930

### Device under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---|---|---|---|
| SPEAG | 50.0 x 10.0 x 8.0 | | - |

### Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|---|---|---|---|---|---|---|---|
| Flat, HSL | FRONT 10.00 | | UID 0 | 6500 | 5.6 | 6.19 | 33.8 |

### Hardware Setup

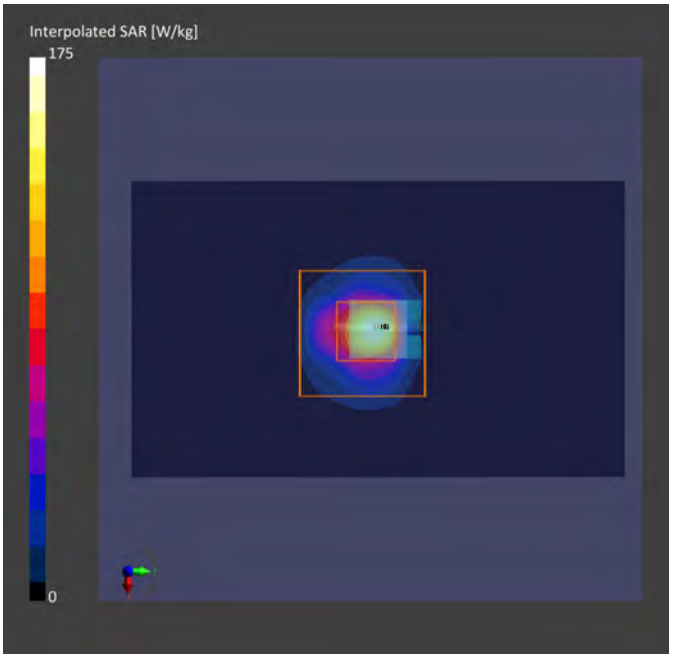
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| ELI V8.0 (20deg probe tilt) - 2105 | H50T72N1 , 2021-Sep-30 | EX3DV4 - SN7554, 2021-08-26 | DAE4 Sn1589, 2021-08-20 |

### Scan Setup

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 51.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |

### Measurement Results

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2021-09-30 | 2021-09-30 |
| psSAR1g [W/Kg] | 22.6 | 27.5 |
| psSAR10g [W/Kg] | 4.55 | 5.08 |
| Power Drift [dB] | -0.09 | -0.06 |



**Test Lab: Bureau Veritas ADT SAR/HAC/PD Testing Lab**

**Power Density Plot No.:**

**PD_System Check_10 GHz_2021.09.30**

## Device under Test Properties

| Name, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---|---|---|---|
| SPEAG, 5G Verification Source 10 GHz | 100.0 x 100.0 x 172.0 | SN: 1025 | - |

## Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|---|---|---|---|---|---|
| 5GAir | FRONT 10.00 | Validation band | CW | 10000.0 | 1.0 |

## Hardware Setup

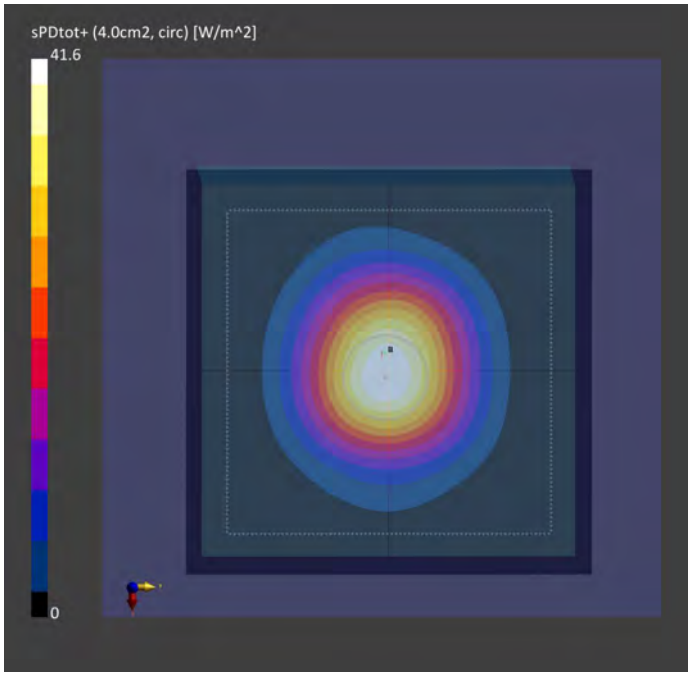
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| mmWave | --Air-- | EUmmWV4 - SN9438_F1-55GHz, 2021-07-26 | DAE4 Sn1589, 2021-08-20 |

## Scan Setup

| | 5G Scan |
|---|---|
| Grid Extents [mm] | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0 |

## Measurement Results

| | 5G Scan |
|---|---|
| Date | 2021-09-30 |
| Avg. Area [cm²] | 4.00 |
| $pS_{tot}avg$[W/m²] | 41.6 |
| $pS_{n}avg$ [W/m²] | 41.4 |
| $E_{peak}$ [V/m] | 135 |
| Power Drift [dB] | 0.03 |



# Annex C. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

**Note:**

1. For Section 4.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within ±10 % of the target values. Liquid temperature during the SAR testing has kept within ±2 ℃.
2. For Section 4.4, The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.
3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Annex A of this report.

| Tissue Verification | | | | | | | | | Validation for CW | | | Validation for Modulation | | | | System Validation | | | | | Note | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plot No. | Frequency (MHz) | Liquid Temp. (℃) | Conductivity (σ) | Permittivity (εr) | Targeted Conductivity (σ) | Targeted Permittivity (εr) | Deviation Conductivity (σ) | Deviation Permittivity (εr) | Sensitivity Range | Probe Linearity | Probe Isotropy | Modulation Type | Duty Factor | PAR | Date | Frequency (MHz) | Targeted 1g SAR (W/kg) | Measured 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Dipole S/N | Probe S/N | DAE S/N | Output Power (dB) |
| S01 | 6500 | 23.4 | 6.19 | 33.8 | 6.07 | 34.5 | 1.98 | -2.03 | Pass | Pass | Pass | OFDM | N/A | Pass | Sep. 30, 2021 | 6500 | 290.00 | 27.5 | 275.00 | -5.17 | 1029 | 7554 | 1589 | 20 |

| Plot No. | Test Date | Frequency [GHz] | mmWave Probe S/N | Verification Source S/N | Averaging Area [$cm^2$] | Distance [mm] | Target Power Density [$W/m^2$] | Measured Power Density [$W/m^2$] | Deviation [%] |
|---|---|---|---|---|---|---|---|---|---|
| P01 | Sep. 30, 2021 | 10 | 9438 | 1025 | 4 | 10.0 | 42.7 | 41.6 | -2.58% |

# Annex D. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

| WLAN Tune-up Power (Full) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-5 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 1 | 5945 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 5 | 5965 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 9 | 5985 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 13 | 6005 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 17 | 6025 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 21 | 6045 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 25 | 6065 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 29 | 6085 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 33 | 6105 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 37 | 6125 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 41 | 6145 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 45 | 6165 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 49 | 6185 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 53 | 6205 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 57 | 6225 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 61 | 6245 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 65 | 6265 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 69 | 6285 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 73 | 6305 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 77 | 6325 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 81 | 6345 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 85 | 6365 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 89 | 6385 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 93 | 6405 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 3 | 5955 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 11 | 5995 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 19 | 6035 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 27 | 6075 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 35 | 6115 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 43 | 6155 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 51 | 6195 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 59 | 6235 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 67 | 6275 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 75 | 6315 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 83 | 6355 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 91 | 6395 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 7 | 5975 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 23 | 6055 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 39 | 6135 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 55 | 6215 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 71 | 6295 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 87 | 6375 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| 802.11ax HE160 | 15 | 6015 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |
| | 47 | 6175 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |
| | 79 | 6335 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |

| WLAN Tune-up Power (Full) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-6 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 97 | 6425 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 101 | 6445 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 105 | 6465 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 109 | 6485 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 113 | 6505 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 117 | 6525 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 99 | 6435 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 107 | 6475 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 115 | 6515 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 103 | 6455 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 119 | 6535 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| 802.11ax HE160 | 111 | 6495 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |

| WLAN Tune-up Power (Full) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-7 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 121 | 6545 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 125 | 6565 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 129 | 6585 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 133 | 6605 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 137 | 6625 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 141 | 6645 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 145 | 6665 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 149 | 6685 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 153 | 6705 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 157 | 6725 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 161 | 6745 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 165 | 6765 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 169 | 6785 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 173 | 6805 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 177 | 6825 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 181 | 6845 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 185 | 6865 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 123 | 6555 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 131 | 6595 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 139 | 6635 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 147 | 6675 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 155 | 6715 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 163 | 6755 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 171 | 6795 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 179 | 6835 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 187 | 6875 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 135 | 6615 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 151 | 6695 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 167 | 6775 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 183 | 6855 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| 802.11ax HE160 | 143 | 6655 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |
| | 175 | 6815 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |

| WLAN Tune-up Power (Full) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-8 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 189 | 6885 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 193 | 6905 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 197 | 6925 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 201 | 6945 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 205 | 6965 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 209 | 6985 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 213 | 7005 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 217 | 7025 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 221 | 7045 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 225 | 7065 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 229 | 7085 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 233 | 7105 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 195 | 6915 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 203 | 6955 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 211 | 6995 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 219 | 7035 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 227 | 7075 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 199 | 6935 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| | 215 | 7015 | 10.5 | 10.5 | 7.5 | 7.5 | 10.5 |
| 802.11ax HE160 | 207 | 6975 | 13.5 | 13.5 | 10.5 | 10.5 | 13.5 |

| WLAN Tune-up Power (Reduction) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-5 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 1 | 5945 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 5 | 5965 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 9 | 5985 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 13 | 6005 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 17 | 6025 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 21 | 6045 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 25 | 6065 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 29 | 6085 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 33 | 6105 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 37 | 6125 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 41 | 6145 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 45 | 6165 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 49 | 6185 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 53 | 6205 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 57 | 6225 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 61 | 6245 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 65 | 6265 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 69 | 6285 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 73 | 6305 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 77 | 6325 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 81 | 6345 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 85 | 6365 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 89 | 6385 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 93 | 6405 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 3 | 5955 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 11 | 5995 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 19 | 6035 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 27 | 6075 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 35 | 6115 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 43 | 6155 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 51 | 6195 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 59 | 6235 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 67 | 6275 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 75 | 6315 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 83 | 6355 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 91 | 6395 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 7 | 5975 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 23 | 6055 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 39 | 6135 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 55 | 6215 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 71 | 6295 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 87 | 6375 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| 802.11ax HE160 | 15 | 6015 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 47 | 6175 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |
| | 79 | 6335 | 10.0 | 10.0 | 7.0 | 7.0 | 10.0 |

| WLAN Tune-up Power (Reduction) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-6 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 97 | 6425 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 101 | 6445 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 105 | 6465 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 109 | 6485 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 113 | 6505 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 117 | 6525 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 99 | 6435 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 107 | 6475 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 115 | 6515 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 103 | 6455 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| | 119 | 6535 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| 802.11ax HE160 | 111 | 6495 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |

| WLAN Tune-up Power (Reduction) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-7 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 121 | 6545 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 125 | 6565 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 129 | 6585 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 133 | 6605 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 137 | 6625 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 141 | 6645 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 145 | 6665 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 149 | 6685 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 153 | 6705 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 157 | 6725 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 161 | 6745 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 165 | 6765 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 169 | 6785 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 173 | 6805 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 177 | 6825 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 181 | 6845 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 185 | 6865 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 123 | 6555 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 131 | 6595 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 139 | 6635 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 147 | 6675 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 155 | 6715 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 163 | 6755 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 171 | 6795 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 179 | 6835 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 187 | 6875 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 135 | 6615 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| | 151 | 6695 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| | 167 | 6775 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| | 183 | 6855 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| 802.11ax HE160 | 143 | 6655 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |
| | 175 | 6815 | 8.5 | 8.5 | 5.5 | 5.5 | 8.5 |

| WLAN Tune-up Power (Reduction) | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNII-8 | | | | | | | |
| Mode | Channel | Frequency | SISO Ant 0 Max Tune up | SISO Ant 1 Max Tune up | MIMO Ant 0 Tune up | MIMO Ant 1 Tune up | MIMO Ant 0+1 Max Tune up |
| 802.11ax HE20 | 189 | 6885 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 193 | 6905 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 197 | 6925 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 201 | 6945 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 205 | 6965 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 209 | 6985 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 213 | 7005 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 217 | 7025 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 221 | 7045 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 225 | 7065 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 229 | 7085 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| | 233 | 7105 | 5.0 | 5.0 | 2.0 | 2.0 | 5.0 |
| 802.11ax HE40 | 195 | 6915 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 203 | 6955 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 211 | 6995 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 219 | 7035 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| | 227 | 7075 | 8.0 | 8.0 | 5.0 | 5.0 | 8.0 |
| 802.11ax HE80 | 199 | 6935 | 9.5 | 9.5 | 6.5 | 6.5 | 9.5 |
| | 215 | 7015 | 9.5 | 9.5 | 6.5 | 6.5 | 9.5 |
| 802.11ax HE160 | 207 | 6975 | 9.5 | 9.5 | 6.5 | 6.5 | 9.5 |

# Annex E. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

| WLAN Conducted Power (Full) | | | |
|---|---|---|---|
| UNII-5 Ant 0 | | | |
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 13.43 |
| | 47 | 6185 | 13.47 |
| | 79 | 6345 | 13.46 |

| UNII-6 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 13.43 |

| UNII-7 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 13.45 |
| | 175 | 6825 | 13.47 |

| UNII-8 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 13.46 |

| WLAN Conducted Power (Full) | | | |
|---|---|---|---|
| UNII-5 Ant 1 | | | |
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 13.43 |
| | 47 | 6185 | 13.46 |
| | 79 | 6345 | 13.45 |

| UNII-6 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 13.43 |

| UNII-7 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 13.45 |
| | 175 | 6825 | 13.48 |

| UNII-8 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 13.46 |

| WLAN Conducted Power (Full) | | | | | |
|---|---|---|---|---|---|
| UNII-5 Ant 0+1 | | | | | |
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 10.46 | 10.43 | 13.46 |
| | 47 | 6185 | 10.48 | 10.46 | 13.48 |
| | 79 | 6345 | 10.45 | 10.42 | 13.45 |

| UNII-6 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 10.45 | 10.43 | 13.45 |

| UNII-7 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 13.46 | 13.46 | 16.47 |
| | 175 | 6825 | 13.48 | 13.45 | 16.48 |

| UNII-8 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 10.47 | 10.46 | 13.48 |

| WLAN Conducted Power (Reduction) | | | |
|---|---|---|---|
| UNII-5 Ant 0 | | | |
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 9.91 |
| | 47 | 6185 | 9.94 |
| | 79 | 6345 | 9.96 |

| UNII-6 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 8.34 |

| UNII-7 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 8.41 |
| | 175 | 6825 | 8.48 |

| UNII-8 Ant 0 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 0 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 9.38 |

| WLAN Conducted Power (Reduction) | | | |
|---|---|---|---|
| UNII-5 Ant 1 | | | |
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 9.77 |
| | 47 | 6185 | 9.81 |
| | 79 | 6345 | 9.98 |

| UNII-6 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 8.47 |

| UNII-7 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 8.48 |
| | 175 | 6825 | 8.42 |

| UNII-8 Ant 1 | | | |
|---|---|---|---|
| Mode | Channel | Frequency | SISO Ant 1 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 9.42 |

| WLAN Conducted Power (Reduction) | | | | | |
|---|---|---|---|---|---|
| UNII-5 Ant 0+1 | | | | | |
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 15 | 6025 | 6.97 | 6.74 | 9.87 |
| | 47 | 6185 | 6.75 | 6.78 | 9.78 |
| | 79 | 6345 | 6.95 | 6.86 | 9.92 |

| UNII-6 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 111 | 6505 | 5.49 | 5.41 | 8.46 |

| UNII-7 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 143 | 6665 | 5.48 | 5.45 | 8.48 |
| | 175 | 6825 | 5.45 | 5.42 | 8.45 |

| UNII-8 Ant 0+1 | | | | | |
|---|---|---|---|---|---|
| Mode | Channel | Frequency | MIMO Ant 0 Avg. Power | MIMO Ant 1 Avg. Power | MIMO Ant 0+1 Avg. Power |
| 802.11ax HE160 | 207 | 6985 | 6.45 | 6.42 | 9.45 |

# Annex F. SAR and Power Density Test Result

SAR Results for Body Exposure Condition.

**Note:**
1. SAR testing for WLAN was performed on the maximum power mode.

## SAR and Power Density Test Result

| System & Position | | | | | | DUT & Accessory | | | SAR | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plot No. | Band | Mode | Test Position | Separation Distance (mm) | Channel | Sample | Ant Status | P-Sensor | Duty Cycle | Crest Factor | Max. Tune-up Power (dBm) | Measured Conducted Power (dBm) | Scaling Factor | Power Drift (dB) | Measured SAR-1g (W/kg) | Scaled SAR-1g (W/kg) | Measured APD W/m$^2$ (4cm$^2$) | Grid Step [ λ ] | iPD [W/m$^2$] | Scaling Factor for Measurement Uncertainty | Averaging Area [cm$^2$] | Power Drift [dB] | Normal psPD [W/m$^2$] | Scaled Normal psPD [W/m$^2$] | Total psPD [W/m$^2$] | Scaled Total psPD [W/m$^2$] |
| 1P | UNII-5 | 802.11ax HE160 | Bottom | 0 | 79 | 1 | Ant 0 | w/ | 98.51 | 1.02 | 10.00 | 9.96 | 1.01 | 0.07 | 0.429 | 0.44 | 3.02 | 0.25 | 4.42 | 1.545 | 4.00 | 0.06 | 1.34 | 2.11 | 1.50 | 2.36 |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 79 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.98 | 1.00 | -0.05 | 0.464 | 0.48 | 2.31 | | | - | | | | - | | - |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 79 | 1 | Ant 0+1 | w/ | 96.90 | 1.03 | 10.00 | 9.92 | 1.02 | 0.08 | 0.329 | 0.35 | 1.72 | 0.25 | 5.73 | 1.545 | 4.00 | -0.12 | 0.899 | 1.43 | 0.913 | 1.45 |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 15 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.77 | 1.05 | 0.11 | 0.554 | 0.60 | 2.67 | | | - | | | | - | | - |
| 1S | UNII-5 | 802.11ax HE160 | Bottom | 0 | 47 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.81 | 1.04 | 0.02 | 0.564 | 0.60 | 2.49 | 0.25 | 5.40 | 1.545 | 4.00 | 0.05 | 1.25 | 1.99 | 1.26 | 2.01 |
| | UNII-6 | 802.11ax HE160 | Bottom | 0 | 111 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 8.50 | 8.47 | 1.01 | -0.03 | 0.331 | 0.34 | 1.47 | | | - | | | | - | | - |
| | UNII-7 | 802.11ax HE160 | Bottom | 0 | 143 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 8.50 | 8.48 | 1.00 | 0.16 | 0.252 | 0.26 | 1.28 | | | - | | | | - | | - |
| | UNII-7 | 802.11ax HE160 | Bottom | 0 | 175 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 8.50 | 8.42 | 1.02 | 0.05 | 0.239 | 0.25 | 1.15 | | | - | | | | - | | - |
| | UNII-8 | 802.11ax HE160 | Bottom | 0 | 207 | 1 | Ant 1 | w/ | 97.53 | 1.03 | 9.50 | 9.42 | 1.02 | -0.02 | 0.286 | 0.30 | 1.31 | | | - | | | | - | | - |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 47 | 2 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.81 | 1.04 | 0.01 | 0.413 | 0.44 | 3.26 | | | - | | | | - | | - |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 47 | 3 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.81 | 1.04 | -0.16 | 0.351 | 0.38 | 2.23 | | | - | | | | - | | - |
| | UNII-5 | 802.11ax HE160 | Bottom | 0 | 47 | 4 | Ant 1 | w/ | 97.53 | 1.03 | 10.00 | 9.81 | 1.04 | -0.03 | 0.302 | 0.32 | 2.08 | | | - | | | | - | | - |
| | | | | | | | | | | | | | | | | | | | | - | | | | - | | - |

# Annex G. SAR Measurement Variability

Since all the measured $SAR_{1g}$ are less than 0.8 W/kg, the repeated measurement is not required.

# Annex H. Analysis of Simultaneous Transmission SAR

The analysis of simultaneous transmission SAR are shown as below.

## <Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

| Simultaneous TX Combination | Capable Transmit Configurations | Body Exposure Condition |
|---|---|---|
| A | WWAN+WIFI6E_Ant0 | Yes |
| B | WWAN+WIFI6E_Ant1 | Yes |
| C | WWAN+WIFI6E_Ant0+1 | Yes |
| D | WWAN+WIFI6E_Ant0 + BT_Ant1 | Yes |
| E | WWAN+WIFI6E_Ant0+1 + BT_Ant1 | Yes |

Notes

1. The WLAN 2.4G and WLAN 5G cannot transmit simultaneously.
2. Simultaneous TX Combination A can be coverd by D
3. Simultaneous TX Combination C can be coverd by E

| Simultaneous Transmission SAR Evaluation (Body) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Band | Position | 1 | 2 | 3 | 4 | 5 | B (1+3) | D (1+2+5) | E (1+4+5) |
| | | Max WWAN | WIFI6E Ant 0 | WIFI6E Ant 1 | WIFI6E Ant 0+1 | BT Ant 1 | Summimg result 1g SAR W/kg | Summimg result 1g SAR W/kg | Summimg result 1g SAR W/kg |
| | | 1g SAR W/kg | 1g SAR W/kg | 1g SAR W/kg | 1g SAR W/kg | 1g SAR W/kg | | | |
| WCDMA II | Bottom | 0.67 | 0.44 | 0.60 | 0.35 | 0.21 | 1.27 | 1.32 | 1.23 |
| WCDMA IV | Bottom | 0.57 | 0.44 | 0.60 | 0.35 | 0.21 | 1.17 | 1.22 | 1.13 |
| WCDMA V | Bottom | 0.64 | 0.44 | 0.60 | 0.35 | 0.21 | 1.24 | 1.29 | 1.20 |
| LTE 2 | Bottom | 0.67 | 0.44 | 0.60 | 0.35 | 0.21 | 1.27 | 1.32 | 1.23 |
| LTE 4 | Bottom | 0.46 | 0.44 | 0.60 | 0.35 | 0.21 | 1.06 | 1.11 | 1.02 |
| LTE 5 | Bottom | 0.54 | 0.44 | 0.60 | 0.35 | 0.21 | 1.14 | 1.19 | 1.10 |
| LTE 7 | Bottom | 0.67 | 0.44 | 0.60 | 0.35 | 0.21 | 1.27 | 1.32 | 1.23 |
| LTE 12 | Bottom | 0.51 | 0.44 | 0.60 | 0.35 | 0.21 | 1.11 | 1.16 | 1.07 |
| LTE 13 | Bottom | 0.51 | 0.44 | 0.60 | 0.35 | 0.21 | 1.11 | 1.16 | 1.07 |
| LTE 14 | Bottom | 0.53 | 0.44 | 0.60 | 0.35 | 0.21 | 1.13 | 1.18 | 1.09 |
| LTE 17 | Bottom | 0.55 | 0.44 | 0.60 | 0.35 | 0.21 | 1.15 | 1.20 | 1.11 |
| LTE 25 | Bottom | 0.65 | 0.44 | 0.60 | 0.35 | 0.21 | 1.25 | 1.30 | 1.21 |
| LTE 26 | Bottom | 0.50 | 0.44 | 0.60 | 0.35 | 0.21 | 1.10 | 1.15 | 1.06 |
| LTE 30 | Bottom | 0.66 | 0.44 | 0.60 | 0.35 | 0.21 | 1.26 | 1.31 | 1.22 |
| LTE 38 | Bottom | 0.84 | 0.44 | 0.60 | 0.35 | 0.21 | 1.44 | 1.49 | 1.40 |
| LTE 41 | Bottom | 0.84 | 0.44 | 0.60 | 0.35 | 0.21 | 1.44 | 1.49 | 1.40 |
| LTE 66 | Bottom | 0.57 | 0.44 | 0.60 | 0.35 | 0.21 | 1.17 | 1.22 | 1.13 |

# Annex I. SAR to Peak Location Separation Ratio Analysis.

Since sum of simultaneous transmission SAR is less than the SAR limit for Body : $SAR_{1g}$ 1.6 W/kg. There is no requirement for SAR to Peak Location Separation Ratio Analysis.

# Annex J. Calibration of Test Equipment List

Calibration of Test Equipment List are shown as below.

| Equipments used for SAR Testing | | | | | |
|---|---|---|---|---|---|
| Equipment | Manufacturer | Model | SN | Cal. Date | Cal. Interval |
| System Validation Dipole | SPEAG | D6.5GHzV2 | 1029 | Feb. 10, 2021 | 1 Year |
| System Verification Source | SPEAG | 5G Verification Source 10 GHz | 1025 | Jan. 19, 2021 | 1 Year |
| Dosimetric E-Field Probe | SPEAG | EX3DV4 | 7554 | Aug. 26, 2021 | 1 Year |
| E-Field Probe | SPEAG | EUmmWV4 | 9438 | Jul. 26, 2021 | 1 Year |
| Data Acquisition Electronics | SPEAG | DAE4 | 1589 | Aug. 20, 2021 | 1 Year |
| Spectrum Analyzer | R&S | FSL6 | 102006 | Apr. 06, 2021 | 1 Year |
| Universal Wireless Test Set | Anritsu | MT8870A/MU887000A | 6201699387 | Sep. 22, 2021 | 1 Year |
| Thermometer | YFE | YF-160A | 191100743 | Apr. 12, 2021 | 1 Year |
| Dielectric Assessment Kit | SPEAG | DAKS-3.5 | 1151 | Jul. 14, 2021 | 1 Year |
| Powersource1 | SPEAG | SE_UMS_160 BA | 4010 | Jul. 13, 2021 | 1 Year |