Annex A. Plots of System Verification

The plots for system verification are shown as follows.

Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

S01 System Check_H2450_220125

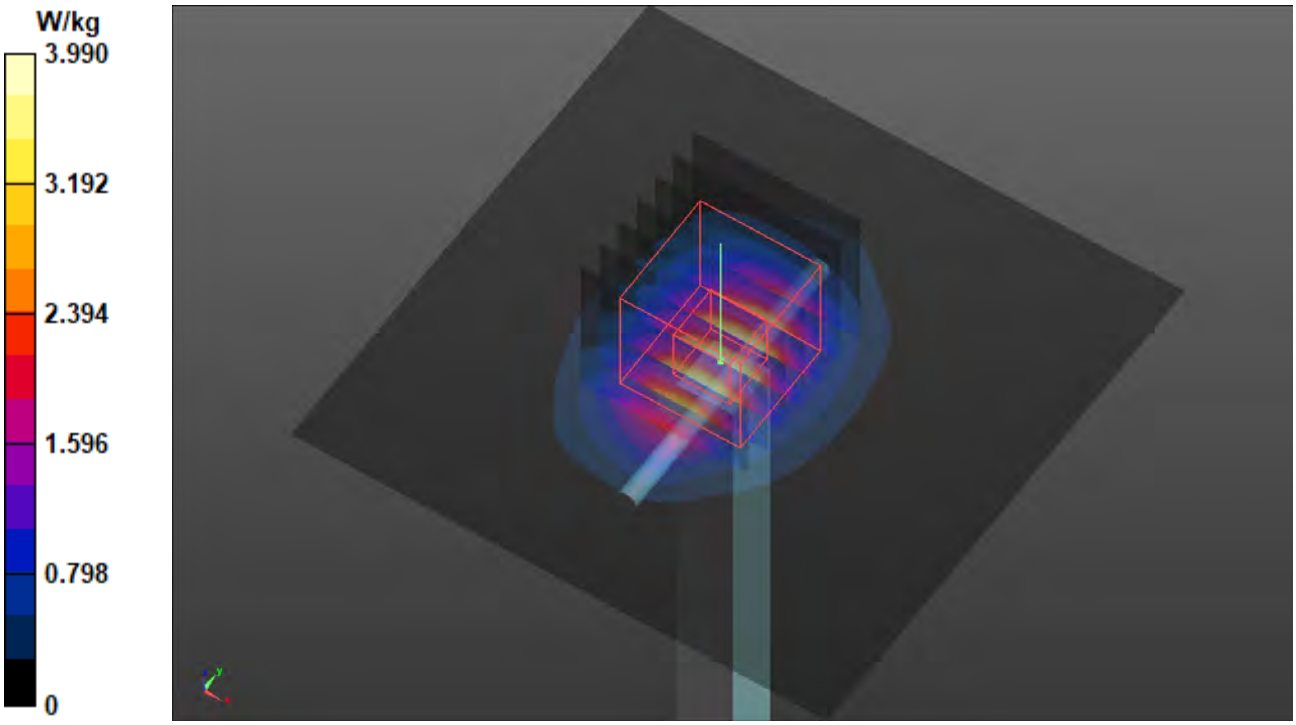
DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0125 Medium parameters used: f = 2450 MHz; σ = 1.794 S/m; ε_r = 37.887; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2450 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.99 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.99 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 5.01 W/kg
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 4.07 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

S02 System Check_H5250_220125

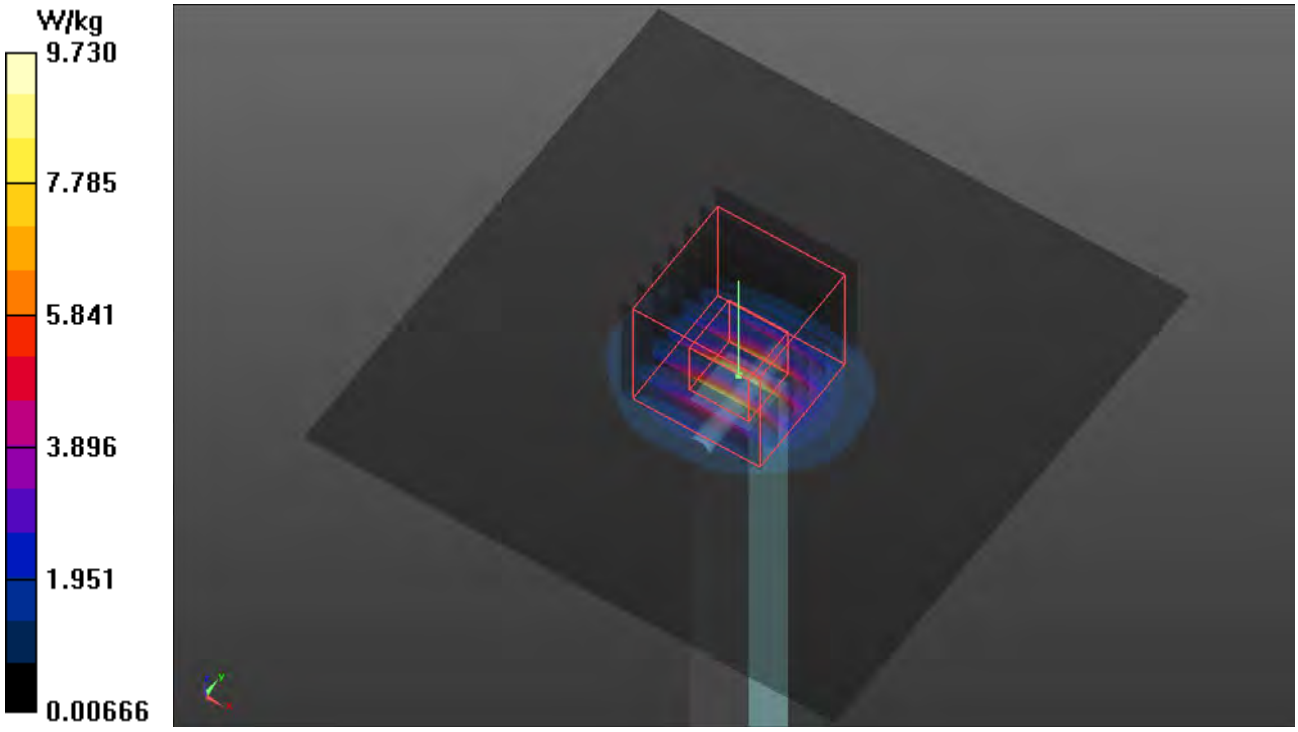
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5250 MHz;Duty Cycle: 1:1
Medium: H34T60N1_0125 Medium parameters used: f = 5250 MHz; σ = 4.704 S/m; ε_r = 36.205; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5250 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.73 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 50.88 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 4.22 W/kg; SAR(10 g) = 1.22 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.5 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/26

S03 System Check_H5600_220126

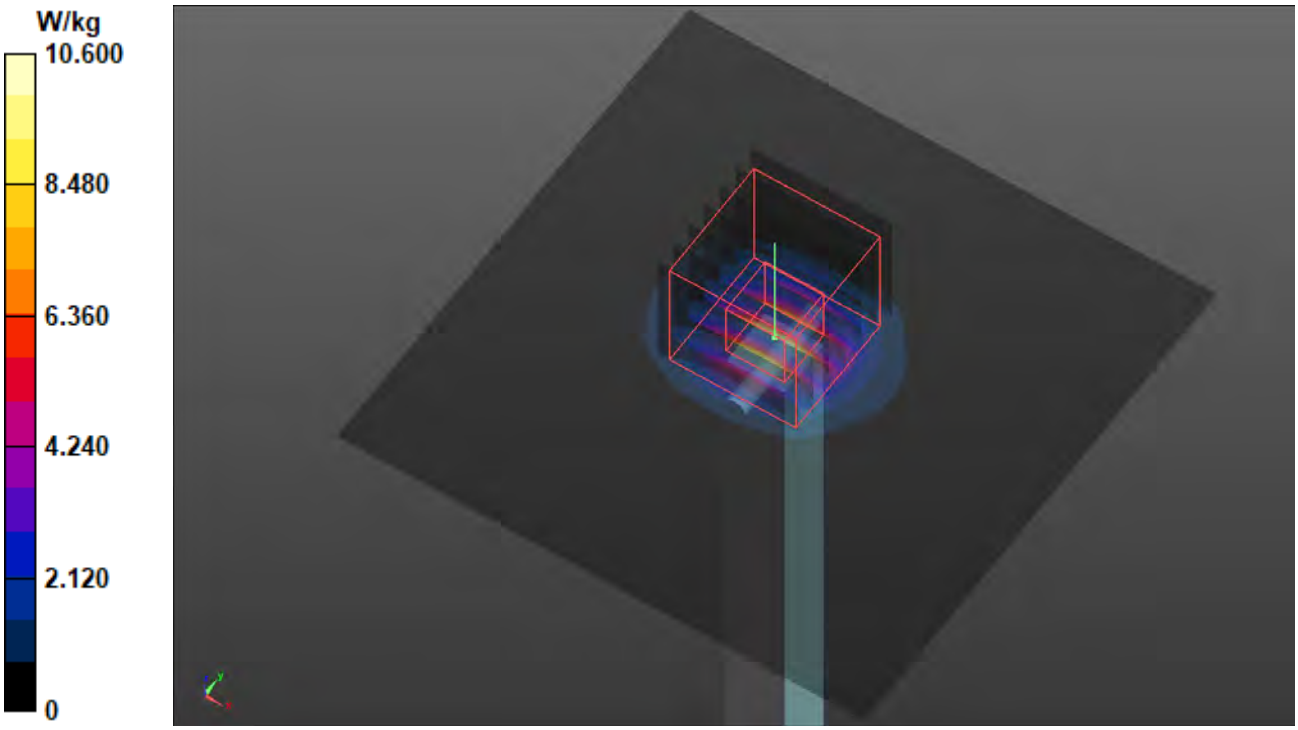
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: H34T60N1_0126 Medium parameters used: f = 5600 MHz; σ = 5.159 S/m; ε_r = 34.746; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(4.8, 4.8, 4.8) @ 5600 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.6 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.16 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 18.2 W/kg
SAR(1 g) = 4.37 W/kg; SAR(10 g) = 1.29 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 11.1 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/26

S04 System Check_H5750_220126

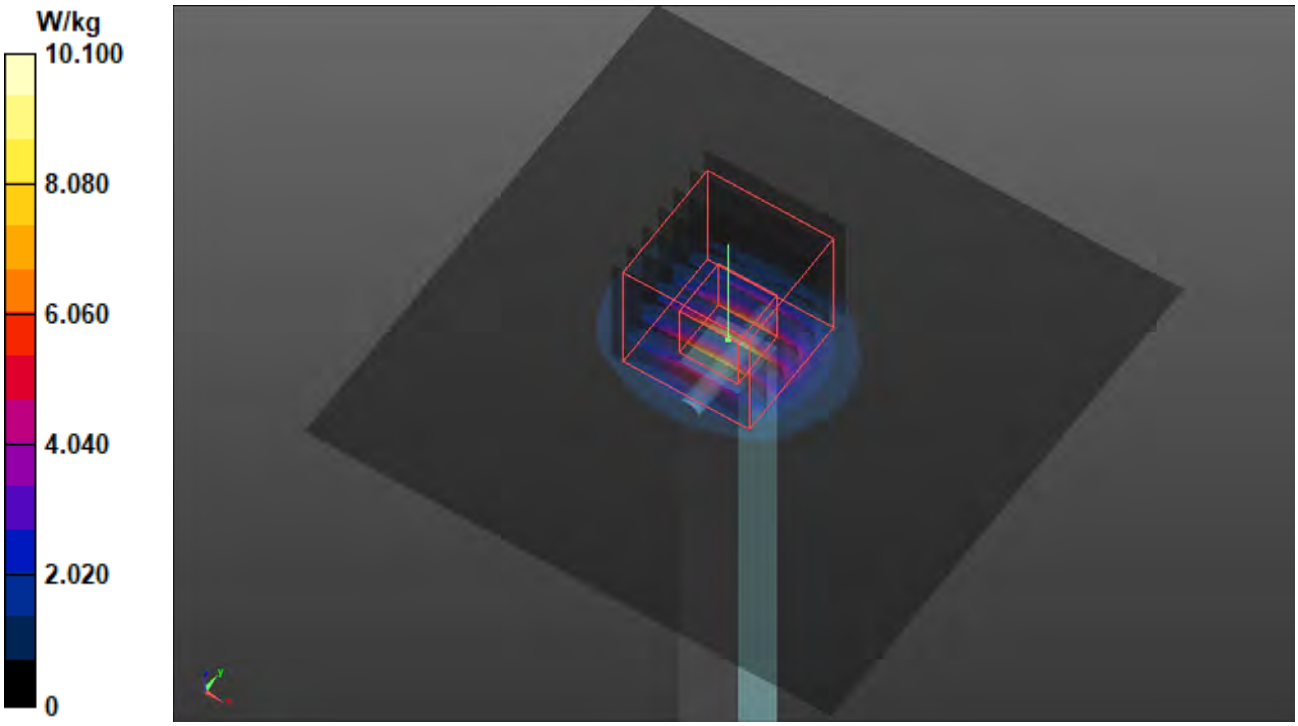
DUT: Dipole 5 GHz; Type: D5GHzV2; SN: 1019

Communication System: UID 0, CW; Frequency: 5750 MHz;Duty Cycle: 1:1
Medium: H34T60N1_0126 Medium parameters used: f = 5750 MHz; σ = 5.313 S/m; ε_r = 34.366; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 10.1 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 43.80 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.2 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.5 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

S05 System Check_H2450_220125

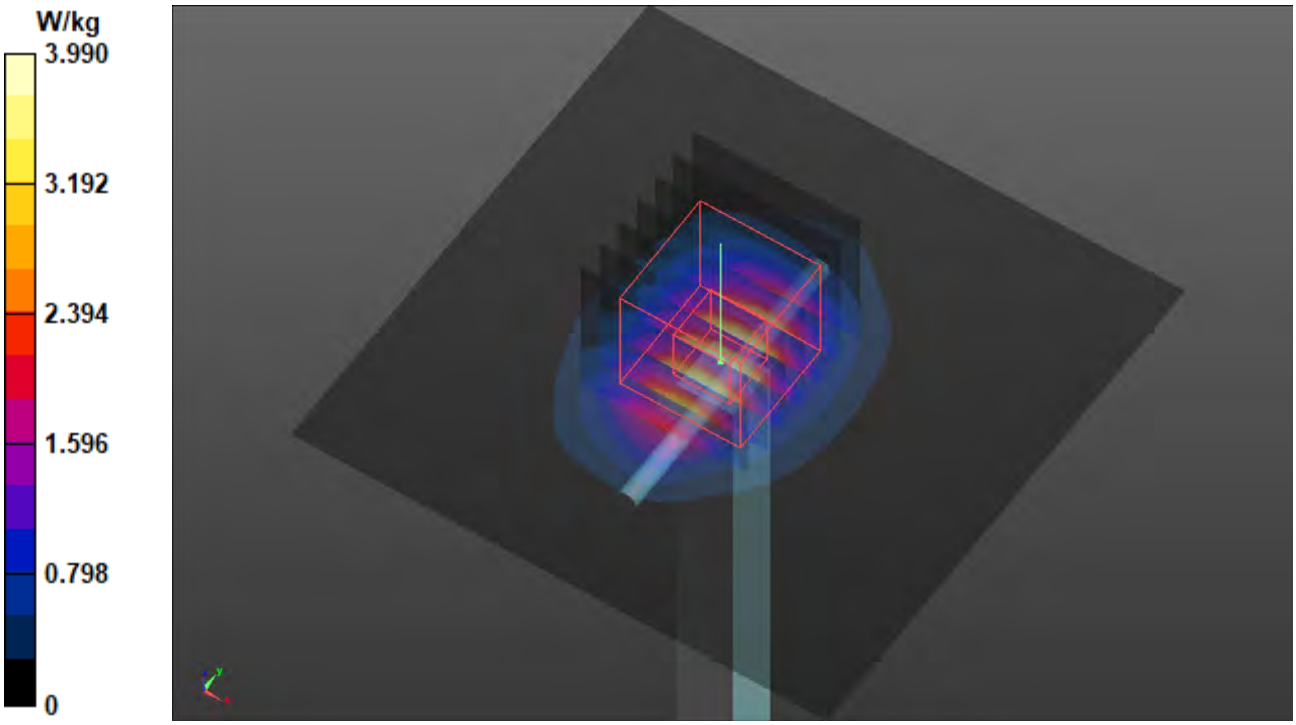
DUT: Dipole 2450 MHz; Type: D2450V2; SN: 737

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: H19T27N1_0125 Medium parameters used: f = 2450 MHz; σ = 1.794 S/m; ε_r = 37.887; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2450 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.99 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.99 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 5.01 W/kg
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 4.07 W/kg



Plots of System Verification

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/21

S06 System Check H6.5GHz_220121

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
H6.5GHz	50.0 x 10.0 x 8.0	SN: 1029	6.5GHzV2 Validation Kit

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	,		,	6500	5.6	6.19	33.8

Hardware Setup

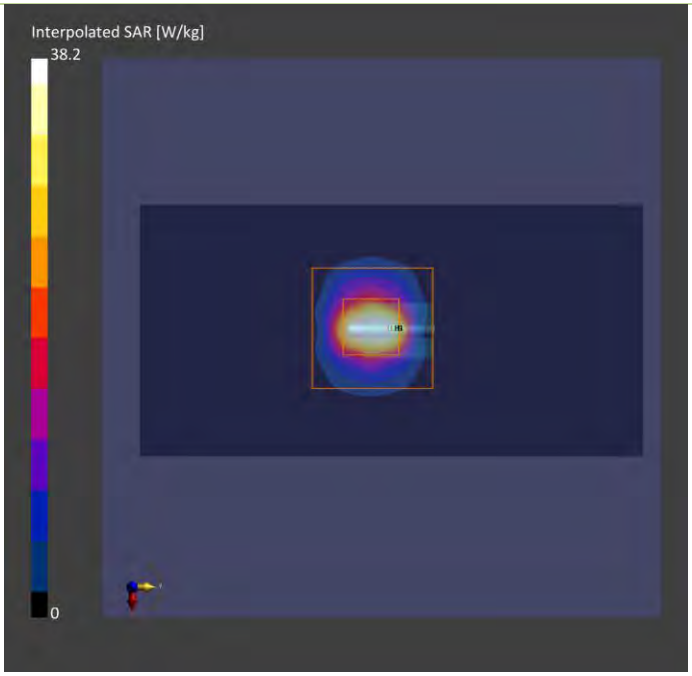
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	H50T72N1 , 2022-Jan-21	EX3DV4 - SN7554, 2021-08-26	DAE4 Sn1589, 2021-08-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-21	2022-01-21
psSAR1g [W/kg]	25.0	28.8
psSAR10g [W/kg]	5.04	5.36
Power Drift [dB]	-0.08	-0.01



Plots of System Verification

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

Power Density Plot No.:

P06 PD Horn_5G Verification Source 10 GHz_220127

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG	100.0 x 100.0 x 170.0	SN: 1025	5G Verification Source 10 GHz

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5GAir	FRONT 5.55	Validation band	CW	10000.0	1.0

Hardware Setup

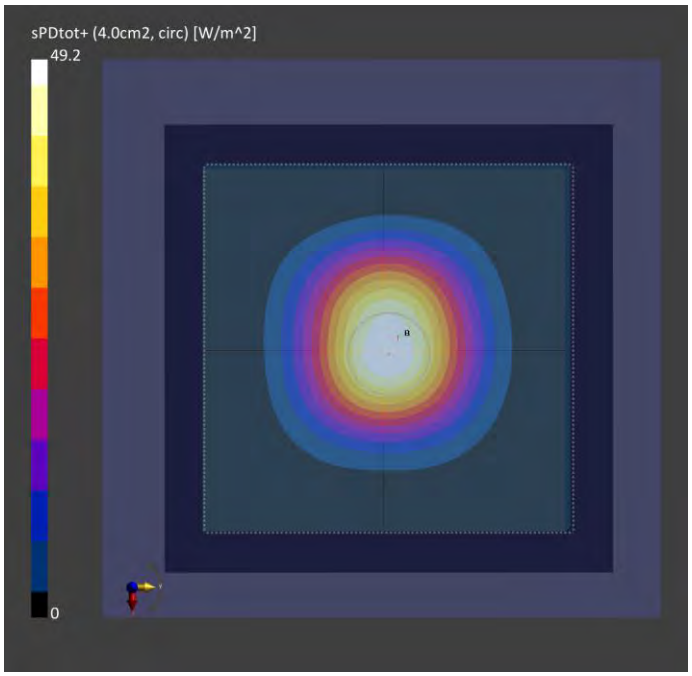
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air---	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn861, 2021-04-14

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

	5G Scan
Date	2022-01-27
Avg. Area [cm^2]	4.00
$pS_{tot}avg$[W/m^2]	49.2
$pS_{n}avg$ [W/m^2]	49.1
E_{peak} [V/m]	142
Power Drift [dB]	-0.01



Annex B. Plots of Measurement

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

Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

P01 WLAN2.4G_802.11b_Bottom_0mm_Ch1_Antenna Manufacturer Pulse_Ant 0

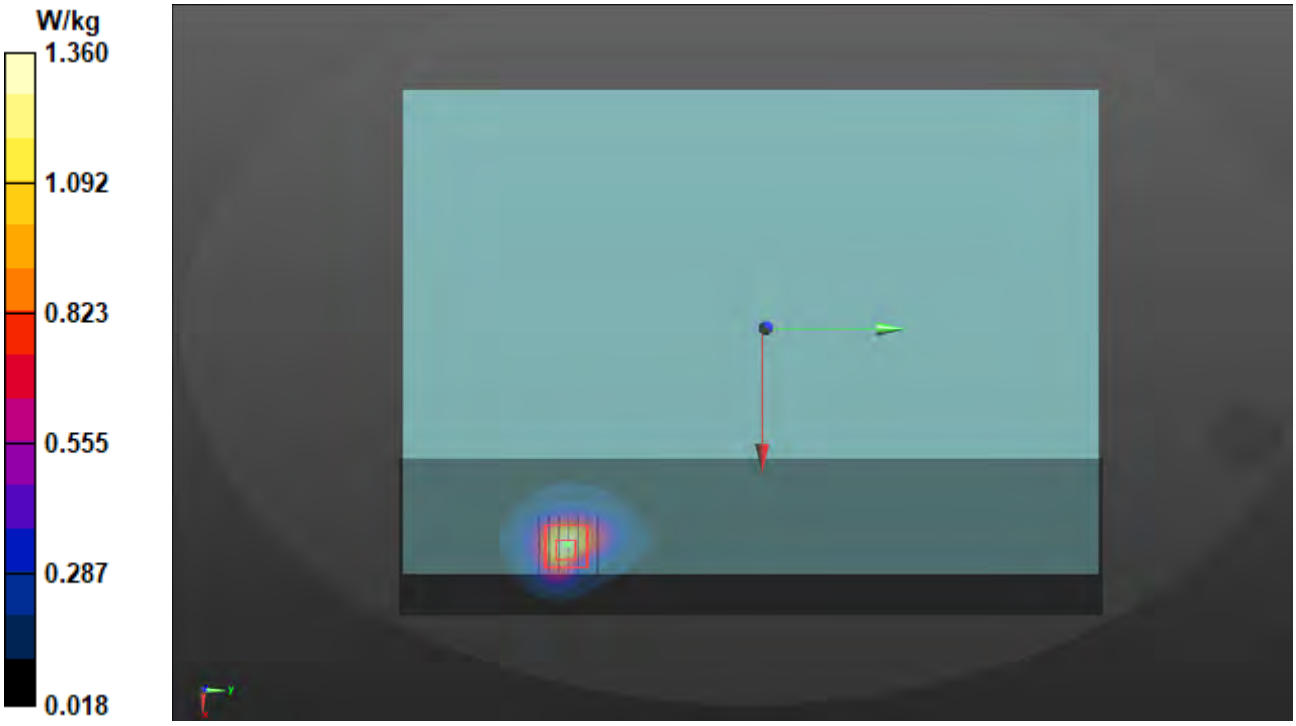
DUT: BEQF-WTW-P22010505

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz;Duty Cycle: 1:1.01
Medium: H19T27N1_0125 Medium parameters used: f = 2412 MHz; σ = 1.767 S/m; ε_r = 37.945; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2412 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.36 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.47 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.69 W/kg
SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.489 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 8.5 mm
Ratio of SAR at M2 to SAR at M1 = 39.6%
Maximum value of SAR (measured) = 2.00 W/kg



Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

P02 WLAN5.3G_802.11ac VHT160_Bottom_0mm_Ch50_Antenna Manufacturer Pulse_Ant 0+1

DUT: BEQF-WTW-P22010505

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5250 MHz;Duty Cycle: 1:1.02
Medium: H34T60N1_0125 Medium parameters used: f = 5250 MHz; σ = 4.704 S/m; ε_r = 36.205; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

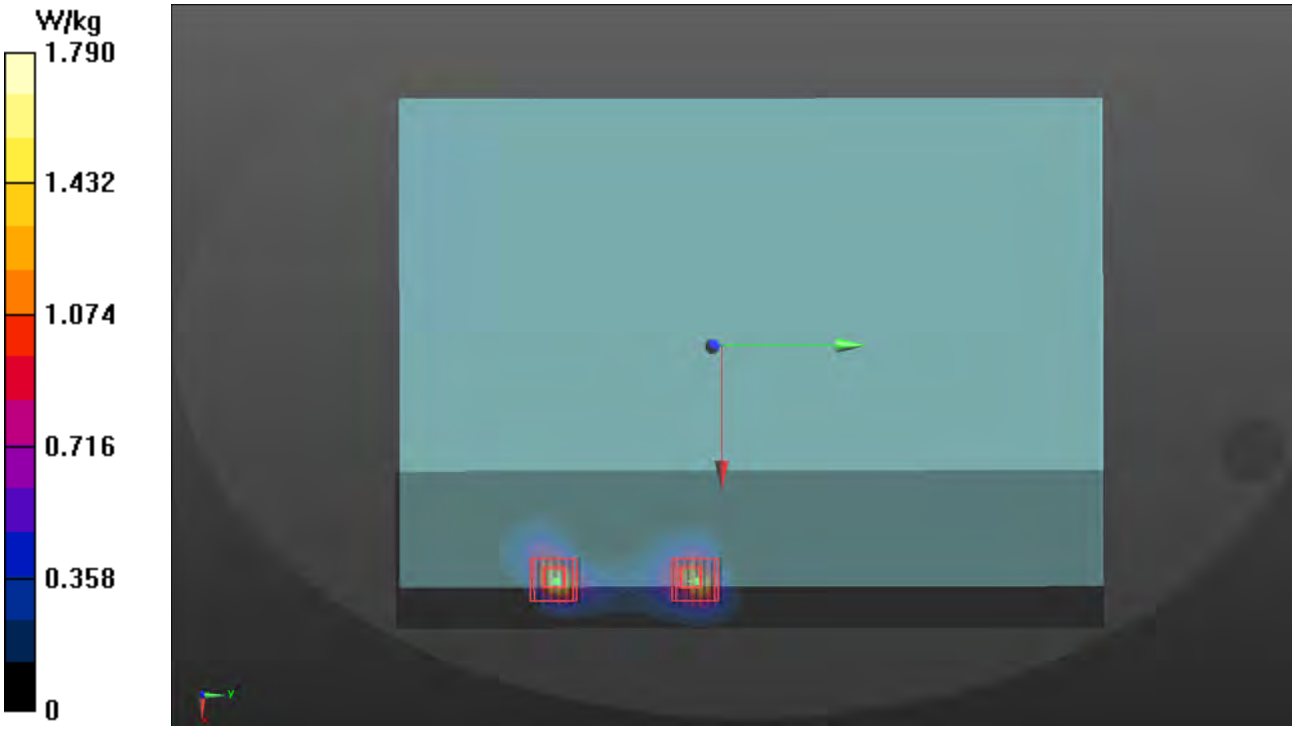
DASY5 Configuration:
- Probe: EX3DV4 - SN7554; ConvF(5.1, 5.1, 5.1) @ 5250 MHz; Calibrated: 2021/08/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1589; Calibrated: 2021/08/20
- Phantom: ELI Phantom_2105; Type: QD OVA 004 Ax;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (81x361x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.79 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 19.35 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 6.26 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.334 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 5.6 mm
Ratio of SAR at M2 to SAR at M1 = 60.6%
Maximum value of SAR (measured) = 3.44 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 19.35 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 3.86 W/kg
SAR(1 g) = 0.951 W/kg; SAR(10 g) = 0.278 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 5.6 mm
Ratio of SAR at M2 to SAR at M1 = 65.6%
Maximum value of SAR (measured) = 2.30 W/kg

Plots of Measurement



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/26

P03 WLAN5.6G_802.11ac VHT160_Bottom_0mm_Ch114_Antenna Manufacturer Pulse_Ant 0+1

DUT: BEQF-WTW-P22010505

Communication System: UID 10554 - AAD, IEEE 802.11ac WiFi (160MHz, MCS0); Frequency: 5570 MHz;Duty Cycle: 1:1.02
Medium: H34T60N1_0126 Medium parameters used: f = 5570 MHz; σ = 5.134 S/m; ε_r = 34.782; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：23.2 ℃

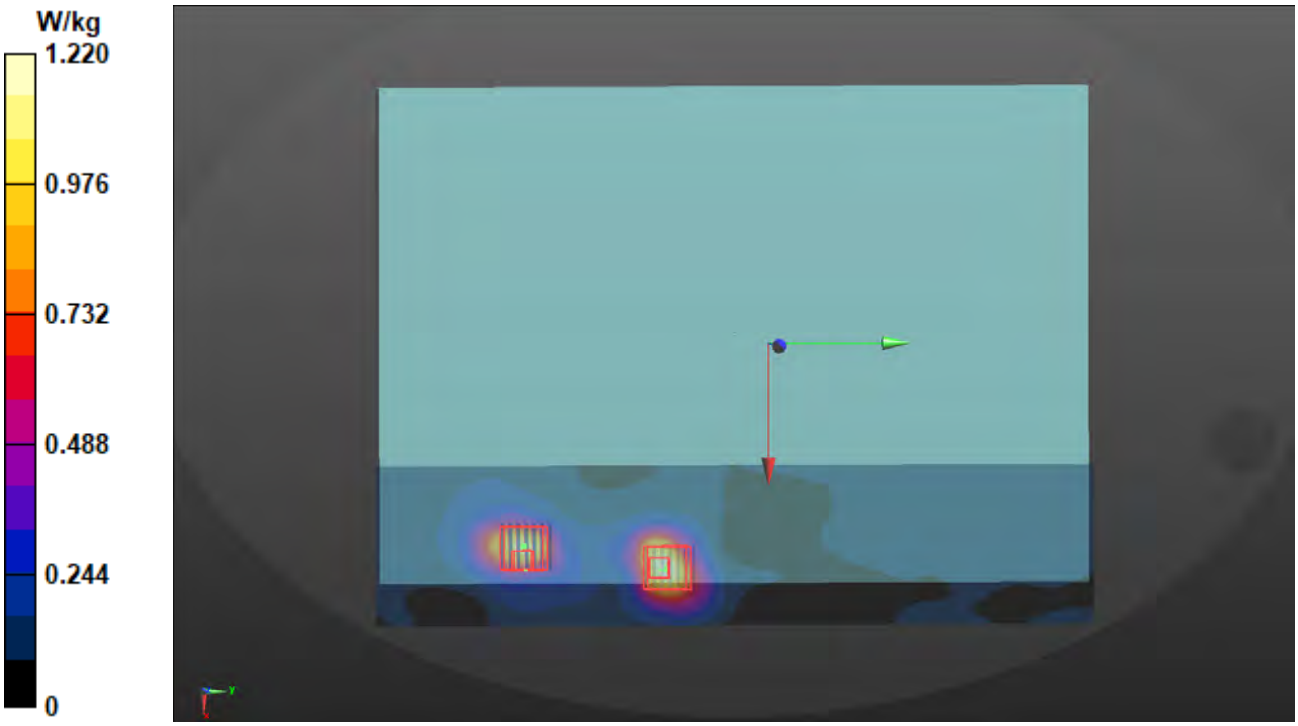
DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(4.8, 4.8, 4.8) @ 5570 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x361x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.22 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.38 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 6.66 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.497 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 5.7 mm
Ratio of SAR at M2 to SAR at M1 = 61.4%
Maximum value of SAR (measured) = 3.61 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.38 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.01 W/kg
SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.441 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 64.9%
Maximum value of SAR (measured) = 2.96 W/kg

Plots of Measurement



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/26

P04 WLAN5.8G_802.11ac VHT80_Bottom_0mm_Ch155_Antenna Manufacturer Pulse_Ant 0+1

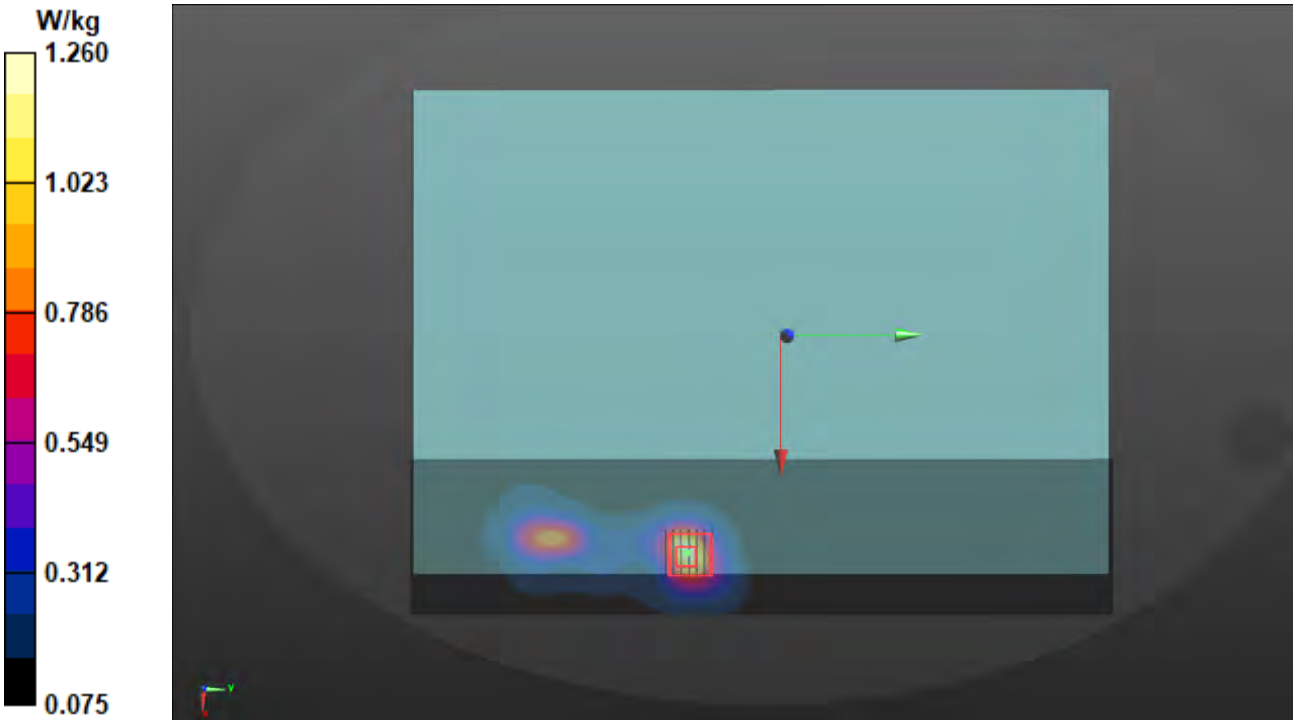
DUT: BEQF-WTW-P22010505

Communication System: UID 10544 - AAC, IEEE 802.11ac WiFi (80MHz, MCS0); Frequency: 5775 MHz;Duty Cycle: 1:1.01
Medium: H34T60N1_0126 Medium parameters used: f = 5775 MHz; σ = 5.354 S/m; ε_r = 34.336; ρ = 1000 kg/m^3
Ambient Temperature：23.4 ℃； Liquid Temperature：23.2 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x361x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 15.29 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 5.82 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.415 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 6.1 mm
Ratio of SAR at M2 to SAR at M1 = 60.3%
Maximum value of SAR (measured) = 2.98 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/25

P05 BT_BDR_Bottom Side_0mm_Ch78_Antenna Manufacturer Pulse_Ant 1

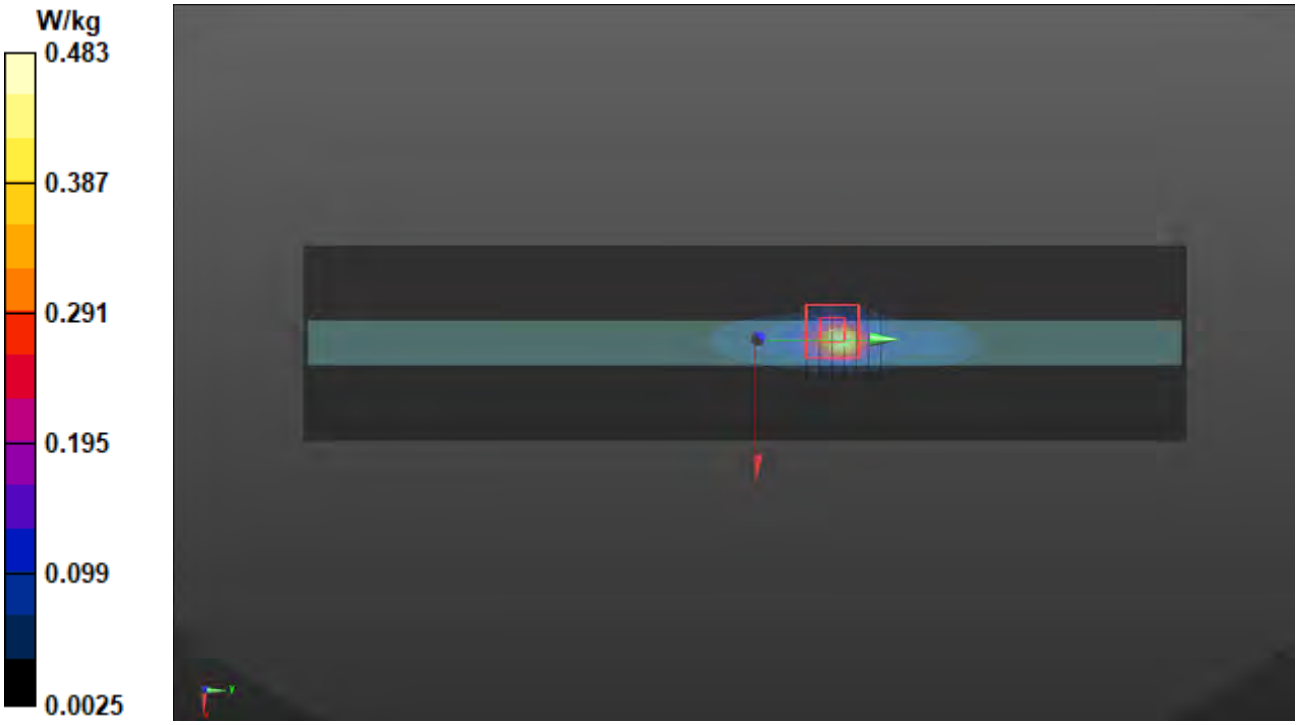
DUT: BEQF-WTW-P22010505

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2480 MHz;Duty Cycle: 1:1.31
Medium: H19T27N1_0125 Medium parameters used: f = 2480 MHz; σ = 1.815 S/m; ε_r = 37.819; ρ = 1000 kg/m^3
Ambient Temperature：23.6 ℃； Liquid Temperature：23.1 ℃

DASY5 Configuration:
- Probe: EX3DV4 - SN7537; ConvF(7.61, 7.61, 7.61) @ 2480 MHz; Calibrated: 2021/04/26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1585; Calibrated: 2021/04/15
- Phantom: ELI Phantom_2118; Type: QD OVA 004 AA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (71x301x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.483 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.90 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.112 W/kg (SAR corrected for target medium)
Smallest distance from peaks to all points 3 dB below = 5.5 mm
Ratio of SAR at M2 to SAR at M1 = 32.9%
Maximum value of SAR (measured) = 0.740 W/kg



Plots of Measurement

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab Date: 2022/01/21

P06 UNII-5_802.11ax HE160_Bottom Side_0mm_Ch15_Antenna Manufacturer Pulse_Ant 1

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEQF-WTW-P22010505,	358.0 x 20.0 x 250.0		Tablet

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, 0.00	U-NII-5	WLAN, 10755-AAC	6025.0, 15	5.6	5.57	34.5

Hardware Setup

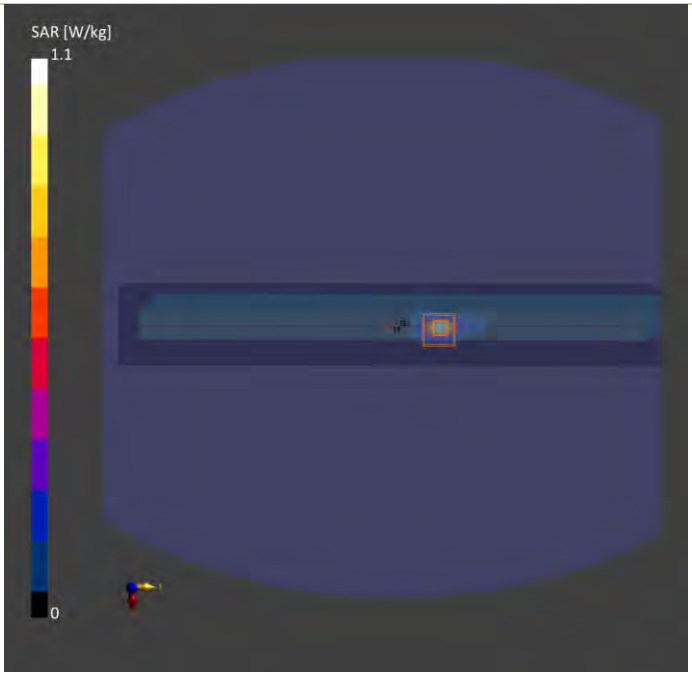
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2105	HBBL-600-10000 , 2022-Jan-21	EX3DV4 - SN7554, 2021-08-26	DAE4 Sn1589, 2021-08-20

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 390.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-21	2022-01-21
psSAR1g [W/kg]	0.979	1.12
psSAR10g [W/kg]	0.250	0.271
Power Drift [dB]	-0.01	0.02



Plots of Measurement

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

Power Density Plot No.:

P06 UNII-5_802.11ax HE160_Bottom Side_0mm_Ch15_Antenna Manufacturer Pulse_Ant 1

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEQF-WTW-P22010505	358.0 x 250.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5GAir	Bottom Side 2.00	U-NII-5	WLAN 10755	6025.0 15	1.0

Hardware Setup

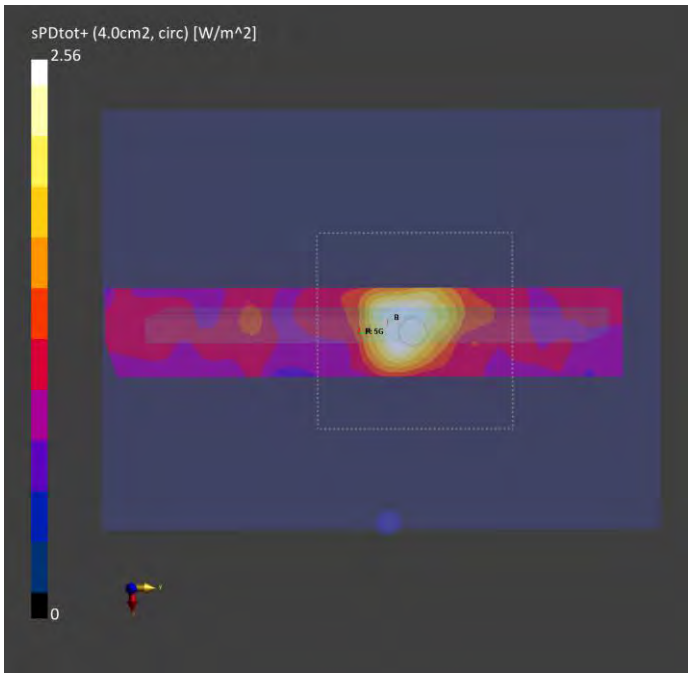
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air---	EUmmWV4 - SN9438_F1-55GHz, 2021-07-26	DAE4 Sn861, 2021-04-14

Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

Measurement Results

	5G Scan
Date	2022-01-27
Avg. Area [cm^2]	4.00
$pS_{tot}avg$[W/m^2]	2.56
$pS_{n}avg$ [W/m^2]	2.32
E_{peak} [V/m]	44.8
Power Drift [dB]	0.02



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	2450	23.1	1.794	37.887	1.8	39.2	-0.33	-3.35	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 25, 2022	2450	52.60	2.44	48.68	-7.44	737	7537	1585	17
S02	5250	23.1	4.704	36.205	4.71	35.9	-0.13	0.85	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 25, 2022	5250	80.60	4.22	84.20	4.47	1019	7554	1589	17
S03	5600	23.2	5.159	34.746	5.07	35.5	1.76	-2.12	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 26, 2022	5600	82.40	4.37	87.19	5.82	1019	7537	1585	17
S04	5750	23.2	5.313	34.366	5.22	35.4	1.78	-2.92	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 26, 2022	5750	79.40	4.07	81.21	2.28	1019	7537	1585	17
S05	2450	23.1	1.794	37.887	1.8	39.2	-0.33	-3.35	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 25, 2022	2450	52.60	2.44	48.68	-7.44	737	7537	1585	17
S06	6500	23.3	6.19	33.8	6.07	34.5	1.98	-2.03	Pass	Pass	Pass	OFDM	N/A	Pass	Jan. 21, 2022	6500	290.00	28.8	288.00	-0.69	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 [%]
P06	Jan. 27, 2022	10	9438	1025	4	10.0	51.3	49.2	-4.09%

Annex D. Maximum Target Conducted Power

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

Tune-up Power - Laptop Mode							
WLAN 2.4GHz							
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
802.11b	1	2412	20.0	20.0	-	-	-
	6	2437	20.0	20.0	-	-	-
	11	2462	20.0	20.0	-	-	-
	12	2467	17.0	17.0	-	-	-
	13	2472	16.0	16.0	-	-	-
802.11g	1	2412	20.0	20.0	-	-	-
	6	2437	20.0	20.0	-	-	-
	11	2462	20.0	20.0	-	-	-
	12	2467	18.0	18.0	-	-	-
	13	2472	15.0	15.0	-	-	-
802.11n HT20	1	2412	20.0	20.0	20.0	20.0	23.0
	6	2437	20.0	20.0	20.0	20.0	23.0
	11	2462	17.0	17.0	17.0	17.0	20.0
	12	2467	15.0	15.0	15.0	15.0	18.0
	13	2472	12.0	12.0	12.0	12.0	15.0
802.11n HT40	3	2422	17.0	17.0	17.0	17.0	20.0
	6	2437	20.0	20.0	20.0	20.0	23.0
	9	2452	17.0	17.0	17.0	17.0	20.0
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	12.0	12.0	12.0	12.0	15.0
802.11ax HE20	1	2412	20.0	20.0	20.0	20.0	23.0
	6	2437	20.0	20.0	20.0	20.0	23.0
	11	2462	17.0	17.0	17.0	17.0	20.0
	12	2467	15.0	15.0	15.0	15.0	18.0
	13	2472	12.0	12.0	12.0	12.0	15.0
802.11ax HE40	3	2422	17.0	17.0	17.0	17.0	20.0
	6	2437	19.0	19.0	19.0	19.0	22.0
	9	2452	17.0	17.0	17.0	17.0	20.0
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	12.0	12.0	12.0	12.0	15.0

Tune-up Power - Laptop Mode				
Bluetooth				
Mode	Channel	Frequency		Ant 1 Max Tune-up
BR / EDR	0	2402		10.0
	39	2441		10.0
	78	2480		10.0
LE	0	2402		9.0
	19	2440		9.0
	39	2480		9.0

Tune-up Power - Laptop Mode							
WLAN 5.2GHz							
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
802.11a	36	5180	11.5	11.5	-	-	-
	40	5200	11.5	11.5	-	-	-
	44	5220	11.5	11.5	-	-	-
	48	5240	11.5	11.5	-	-	-
802.11n HT20	36	5180	11.5	11.5	11.5	11.5	14.5
	40	5200	11.5	11.5	11.5	11.5	14.5
	44	5220	11.5	11.5	11.5	11.5	14.5
	48	5240	11.5	11.5	11.5	11.5	14.5
802.11n HT40	38	5190	11.5	11.5	11.5	11.5	14.5
	46	5230	11.5	11.5	11.5	11.5	14.5
802.11ac VHT80	42	5210	11.5	11.5	11.5	11.5	14.5
802.11ax HE20	36	5180	11.5	11.5	11.5	11.5	14.5
	40	5200	11.5	11.5	11.5	11.5	14.5
	44	5220	11.5	11.5	11.5	11.5	14.5
	48	5240	11.5	11.5	11.5	11.5	14.5
802.11ax HE40	38	5190	11.5	11.5	11.5	11.5	14.5
	46	5230	11.5	11.5	11.5	11.5	14.5
802.11ax HE80	42	5210	11.5	11.5	11.5	11.5	14.5

Tune-up Power - Laptop Mode							
WLAN 5.3GHz							
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
802.11a	52	5260	11.5	11.5	-	-	-
	56	5280	11.5	11.5	-	-	-
	60	5300	11.5	11.5	-	-	-
	64	5320	11.5	11.5	-	-	-
802.11n HT20	52	5260	11.5	11.5	11.5	11.5	14.5
	56	5280	11.5	11.5	11.5	11.5	14.5
	60	5300	11.5	11.5	11.5	11.5	14.5
	64	5320	11.5	11.5	11.5	11.5	14.5
802.11n HT40	54	5270	11.5	11.5	11.5	11.5	14.5
	62	5310	11.5	11.5	11.5	11.5	14.5
802.11ac VHT80	58	5290	11.5	11.5	11.5	11.5	14.5
802.11ac VHT160	50	5250	11.5	11.5	11.5	11.5	14.5
802.11ax HE20	52	5260	11.5	11.5	11.5	11.5	14.5
	56	5280	11.5	11.5	11.5	11.5	14.5
	60	5300	11.5	11.5	11.5	11.5	14.5
	64	5320	11.5	11.5	11.5	11.5	14.5
802.11ax HE40	54	5270	11.5	11.5	11.5	11.5	14.5
	62	5310	11.5	11.5	11.5	11.5	14.5
802.11ax HE80	58	5290	11.5	11.5	11.5	11.5	14.5
802.11ax HE160	50	5250	11.5	11.5	11.5	11.5	14.5

Tune-up Power - Laptop Mode							
WLAN 5.6GHz							
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
802.11a	100	5500	11.5	11.5	-	-	-
	116	5580	11.5	11.5	-	-	-
	120	5600	11.5	11.5	-	-	-
	124	5620	11.5	11.5	-	-	-
	132	5660	11.5	11.5	-	-	-
	140	5700	11.5	11.5	-	-	-
	144	5720	11.5	11.5	-	-	-
802.11n HT20	100	5500	11.5	11.5	11.5	11.5	14.5
	116	5580	11.5	11.5	11.5	11.5	14.5
	120	5600	11.5	11.5	11.5	11.5	14.5
	124	5620	11.5	11.5	11.5	11.5	14.5
	132	5660	11.5	11.5	11.5	11.5	14.5
	140	5700	11.5	11.5	11.5	11.5	14.5
	144	5720	11.5	11.5	11.5	11.5	14.5
802.11n HT40	102	5510	11.5	11.5	11.5	11.5	14.5
	110	5550	11.5	11.5	11.5	11.5	14.5
	118	5590	11.5	11.5	11.5	11.5	14.5
	126	5630	11.5	11.5	11.5	11.5	14.5
	134	5670	11.5	11.5	11.5	11.5	14.5
	142	5710	11.5	11.5	11.5	11.5	14.5
802.11ac VHT80	106	5530	11.5	11.5	11.5	11.5	14.5
	122	5610	11.5	11.5	11.5	11.5	14.5
	138	5690	11.5	11.5	11.5	11.5	14.5
802.11ac VHT160	114	5570	11.5	11.5	11.5	11.5	14.5
802.11ax HE20	100	5500	11.5	11.5	11.5	11.5	14.5
	116	5580	11.5	11.5	11.5	11.5	14.5
	120	5600	11.5	11.5	11.5	11.5	14.5
	124	5620	11.5	11.5	11.5	11.5	14.5
	132	5660	11.5	11.5	11.5	11.5	14.5
	140	5700	11.5	11.5	11.5	11.5	14.5
	144	5720	11.5	11.5	11.5	11.5	14.5
802.11ax HE40	102	5510	11.5	11.5	11.5	11.5	14.5
	110	5550	11.5	11.5	11.5	11.5	14.5
	118	5590	11.5	11.5	11.5	11.5	14.5
	126	5630	11.5	11.5	11.5	11.5	14.5
	134	5670	11.5	11.5	11.5	11.5	14.5
	142	5710	11.5	11.5	11.5	11.5	14.5
802.11ax HE80	106	5530	11.5	11.5	11.5	11.5	14.5
	122	5610	11.5	11.5	11.5	11.5	14.5
	138	5690	11.5	11.5	11.5	11.5	14.5
802.11ax HE160	114	5570	11.5	11.5	11.5	11.5	14.5

Tune-up Power - Laptop Mode							
WLAN 5.8GHz							
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
802.11a	149	5745	11.5	11.5	-	-	-
	153	5765	11.5	11.5	-	-	-
	157	5785	11.5	11.5	-	-	-
	161	5805	11.5	11.5	-	-	-
	165	5825	11.5	11.5	-	-	-
802.11n HT20	149	5745	11.5	11.5	11.5	11.5	14.5
	153	5765	11.5	11.5	11.5	11.5	14.5
	157	5785	11.5	11.5	11.5	11.5	14.5
	161	5805	11.5	11.5	11.5	11.5	14.5
	165	5825	11.5	11.5	11.5	11.5	14.5
802.11n HT40	151	5755	11.5	11.5	11.5	11.5	14.5
	159	5795	11.5	11.5	11.5	11.5	14.5
802.11ac VHT80	155	5775	11.5	11.5	11.5	11.5	14.5
802.11ax HE20	149	5745	11.5	11.5	11.5	11.5	14.5
	153	5765	11.5	11.5	11.5	11.5	14.5
	157	5785	11.5	11.5	11.5	11.5	14.5
	161	5805	11.5	11.5	11.5	11.5	14.5
	165	5825	11.5	11.5	11.5	11.5	14.5
802.11ax HE40	151	5755	11.5	11.5	11.5	11.5	14.5
	159	5795	11.5	11.5	11.5	11.5	14.5
802.11ax HE80	155	5775	11.5	11.5	11.5	11.5	14.5

Tune-up Power - Laptop Mode							
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	5955	5.0	5.0	5.0	5.0	8.0
	5	5975	5.0	5.0	5.0	5.0	8.0
	9	5995	5.0	5.0	5.0	5.0	8.0
	13	6015	5.0	5.0	5.0	5.0	8.0
	17	6035	5.0	5.0	5.0	5.0	8.0
	21	6055	5.0	5.0	5.0	5.0	8.0
	25	6075	5.0	5.0	5.0	5.0	8.0
	29	6095	5.0	5.0	5.0	5.0	8.0
	33	6115	5.0	5.0	5.0	5.0	8.0
	37	6135	5.0	5.0	5.0	5.0	8.0
	41	6155	5.0	5.0	5.0	5.0	8.0
	45	6175	5.0	5.0	5.0	5.0	8.0
	49	6195	5.0	5.0	5.0	5.0	8.0
	53	6215	5.0	5.0	5.0	5.0	8.0
	57	6235	5.0	5.0	5.0	5.0	8.0
	61	6255	5.0	5.0	5.0	5.0	8.0
	65	6275	5.0	5.0	5.0	5.0	8.0
	69	6295	5.0	5.0	5.0	5.0	8.0
	73	6315	5.0	5.0	5.0	5.0	8.0
	77	6335	5.0	5.0	5.0	5.0	8.0
	81	6355	5.0	5.0	5.0	5.0	8.0
	85	6375	5.0	5.0	5.0	5.0	8.0
	89	6395	5.0	5.0	5.0	5.0	8.0
	93	6415	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	3	5965	8.0	8.0	8.0	8.0	11.0
	11	6005	8.0	8.0	8.0	8.0	11.0
	19	6045	8.0	8.0	8.0	8.0	11.0
	27	6085	8.0	8.0	8.0	8.0	11.0
	35	6125	8.0	8.0	8.0	8.0	11.0
	43	6165	8.0	8.0	8.0	8.0	11.0
	51	6205	8.0	8.0	8.0	8.0	11.0
	59	6245	8.0	8.0	8.0	8.0	11.0
	67	6285	8.0	8.0	8.0	8.0	11.0
	75	6325	8.0	8.0	8.0	8.0	11.0
	83	6365	8.0	8.0	8.0	8.0	11.0
	91	6405	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	7	5985	10.0	10.0	10.0	10.0	13.0
	23	6065	10.0	10.0	10.0	10.0	13.0
	39	6145	10.0	10.0	10.0	10.0	13.0
	55	6225	10.0	10.0	10.0	10.0	13.0
	71	6305	10.0	10.0	10.0	10.0	13.0
	87	6385	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	15	6025	10.0	10.0	10.0	10.0	13.0
	47	6185	10.0	10.0	10.0	10.0	13.0
	79	6345	10.0	10.0	10.0	10.0	13.0

Tune-up Power - Laptop Mode							
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	6435	5.0	5.0	5.0	5.0	8.0
	101	6455	5.0	5.0	5.0	5.0	8.0
	105	6475	5.0	5.0	5.0	5.0	8.0
	109	6495	5.0	5.0	5.0	5.0	8.0
	113	6515	5.0	5.0	5.0	5.0	8.0
	117	6535	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	99	6445	8.0	8.0	8.0	8.0	11.0
	107	6485	8.0	8.0	8.0	8.0	11.0
	115	6525	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	103	6465	10.0	10.0	10.0	10.0	13.0
	119	6545	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	111	6505	10.0	10.0	10.0	10.0	13.0

Tune-up Power - Laptop Mode							
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	6555	5.0	5.0	5.0	5.0	8.0
	125	6575	5.0	5.0	5.0	5.0	8.0
	129	6595	5.0	5.0	5.0	5.0	8.0
	133	6615	5.0	5.0	5.0	5.0	8.0
	137	6635	5.0	5.0	5.0	5.0	8.0
	141	6655	5.0	5.0	5.0	5.0	8.0
	145	6675	5.0	5.0	5.0	5.0	8.0
	149	6695	5.0	5.0	5.0	5.0	8.0
	153	6715	5.0	5.0	5.0	5.0	8.0
	157	6735	5.0	5.0	5.0	5.0	8.0
	161	6755	5.0	5.0	5.0	5.0	8.0
	165	6775	5.0	5.0	5.0	5.0	8.0
	169	6795	5.0	5.0	5.0	5.0	8.0
	173	6815	5.0	5.0	5.0	5.0	8.0
	177	6835	5.0	5.0	5.0	5.0	8.0
	181	6855	5.0	5.0	5.0	5.0	8.0
	185	6875	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	123	6565	8.0	8.0	8.0	8.0	11.0
	131	6605	8.0	8.0	8.0	8.0	11.0
	139	6645	8.0	8.0	8.0	8.0	11.0
	147	6685	8.0	8.0	8.0	8.0	11.0
	155	6725	8.0	8.0	8.0	8.0	11.0
	163	6765	8.0	8.0	8.0	8.0	11.0
	171	6805	8.0	8.0	8.0	8.0	11.0
	179	6845	8.0	8.0	8.0	8.0	11.0
	187	6885	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	135	6625	10.0	10.0	10.0	10.0	13.0
	151	6705	10.0	10.0	10.0	10.0	13.0
	167	6785	10.0	10.0	10.0	10.0	13.0
	183	6865	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	143	6665	10.0	10.0	10.0	10.0	13.0
	175	6825	10.0	10.0	10.0	10.0	13.0

Tune-up Power - Laptop Mode							
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	6895	5.0	5.0	5.0	5.0	8.0
	193	6915	5.0	5.0	5.0	5.0	8.0
	197	6935	5.0	5.0	5.0	5.0	8.0
	201	6955	5.0	5.0	5.0	5.0	8.0
	205	6975	5.0	5.0	5.0	5.0	8.0
	209	6995	5.0	5.0	5.0	5.0	8.0
	213	7015	5.0	5.0	5.0	5.0	8.0
	217	7035	5.0	5.0	5.0	5.0	8.0
	221	7055	5.0	5.0	5.0	5.0	8.0
	225	7075	5.0	5.0	5.0	5.0	8.0
	229	7095	5.0	5.0	5.0	5.0	8.0
	233	7115	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	195	6925	8.0	8.0	8.0	8.0	11.0
	203	6965	8.0	8.0	8.0	8.0	11.0
	211	7005	8.0	8.0	8.0	8.0	11.0
	219	7045	8.0	8.0	8.0	8.0	11.0
	227	7085	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	199	6945	10.0	10.0	10.0	10.0	13.0
	215	7025	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	207	6985	10.0	10.0	10.0	10.0	13.0

WLAN Tune-up Power - Tablet Mode							
WLAN2.4GHz							
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
802.11b	1	2412	14.0	14.0	-	-	-
	6	2437	14.0	14.0	-	-	-
	11	2462	14.0	14.0	-	-	-
	12	2467	14.0	14.0	-	-	-
	13	2472	14.0	14.0	-	-	-
802.11g	1	2412	14.0	14.0	-	-	-
	6	2437	14.0	14.0	-	-	-
	11	2462	14.0	14.0	-	-	-
	12	2467	14.0	14.0	-	-	-
	13	2472	14.0	14.0	-	-	-
802.11n HT20	1	2412	14.0	14.0	14.0	14.0	17.0
	6	2437	14.0	14.0	14.0	14.0	17.0
	11	2462	14.0	14.0	14.0	14.0	17.0
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	12.0	12.0	12.0	12.0	15.0
802.11n HT40	3	2422	14.0	14.0	14.0	14.0	17.0
	6	2437	14.0	14.0	14.0	14.0	17.0
	9	2452	14.0	14.0	14.0	14.0	17.0
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	12.0	12.0	12.0	12.0	15.0
802.11ax HE20	1	2412	14.0	14.0	14.0	14.0	17.0
	6	2437	14.0	14.0	14.0	14.0	17.0
	11	2462	14.0	14.0	14.0	14.0	17.0
	12	2467	14.0	14.0	14.0	14.0	17.0
	13	2472	12.0	12.0	12.0	12.0	15.0
802.11ax HE40	3	2422	14.0	14.0	14.0	14.0	17.0
	6	2437	14.0	14.0	14.0	14.0	17.0
	9	2452	14.0	14.0	14.0	14.0	17.0
	10	2457	14.0	14.0	14.0	14.0	17.0
	11	2462	12.0	12.0	12.0	12.0	15.0

WLAN Tune-up Power - Tablet Mode					
Bluetooth					
Mode	Channel	Frequency		Ant 1 Max Tune-up	
BR / EDR	0	2402		10.0	
	39	2441		10.0	
	78	2480		10.0	
LE	0	2402		9.0	
	19	2440		9.0	
	39	2480		9.0	

WLAN Tune-up Power - Tablet Mode							
WLAN 5.2GHz							
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
802.11a	36	5180	10.5	10.5	-	-	-
	40	5200	10.5	10.5	-	-	-
	44	5220	10.5	10.5	-	-	-
	48	5240	10.5	10.5	-	-	-
802.11n HT20	36	5180	10.5	10.5	10.5	10.5	13.5
	40	5200	10.5	10.5	10.5	10.5	13.5
	44	5220	10.5	10.5	10.5	10.5	13.5
	48	5240	10.5	10.5	10.5	10.5	13.5
802.11n HT40	38	5190	10.5	10.5	10.5	10.5	13.5
	46	5230	10.5	10.5	10.5	10.5	13.5
802.11ac VHT80	42	5210	10.5	10.5	10.5	10.5	13.5
802.11ax HE20	36	5180	10.5	10.5	10.5	10.5	13.5
	40	5200	10.5	10.5	10.5	10.5	13.5
	44	5220	10.5	10.5	10.5	10.5	13.5
	48	5240	10.5	10.5	10.5	10.5	13.5
802.11ax HE40	38	5190	10.5	10.5	10.5	10.5	13.5
	46	5230	10.5	10.5	10.5	10.5	13.5
802.11ax HE80	42	5210	10.5	10.5	10.5	10.5	13.5

WLAN Tune-up Power - Tablet Mode							
WLAN 5.3GHz							
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
802.11a	52	5260	10.5	10.5	-	-	-
	56	5280	10.5	10.5	-	-	-
	60	5300	10.5	10.5	-	-	-
	64	5320	10.5	10.5	-	-	-
802.11n HT20	52	5260	10.5	10.5	10.5	10.5	13.5
	56	5280	10.5	10.5	10.5	10.5	13.5
	60	5300	10.5	10.5	10.5	10.5	13.5
	64	5320	10.5	10.5	10.5	10.5	13.5
802.11n HT40	54	5270	10.5	10.5	10.5	10.5	13.5
	62	5310	10.5	10.5	10.5	10.5	13.5
802.11ac VHT80	58	5290	10.5	10.5	10.5	10.5	13.5
802.11ac VHT160	50	5250	10.5	10.5	10.5	10.5	13.5
802.11ax HE20	52	5260	10.5	10.5	10.5	10.5	13.5
	56	5280	10.5	10.5	10.5	10.5	13.5
	60	5300	10.5	10.5	10.5	10.5	13.5
	64	5320	10.5	10.5	10.5	10.5	13.5
802.11ax HE40	54	5270	10.5	10.5	10.5	10.5	13.5
	62	5310	10.5	10.5	10.5	10.5	13.5
802.11ax HE80	58	5290	10.5	10.5	10.5	10.5	13.5
802.11ax HE160	50	5250	10.5	10.5	10.5	10.5	13.5

WLAN Tune-up Power - Tablet Mode							
WLAN 5.6GHz							
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
802.11a	100	5500	10.5	10.5	-	-	-
	116	5580	10.5	10.5	-	-	-
	120	5600	10.5	10.5	-	-	-
	124	5620	10.5	10.5	-	-	-
	132	5660	10.5	10.5	-	-	-
	140	5700	10.5	10.5	-	-	-
	144	5720	10.5	10.5	-	-	-
802.11n HT20	100	5500	10.5	10.5	10.5	10.5	13.5
	116	5580	10.5	10.5	10.5	10.5	13.5
	120	5600	10.5	10.5	10.5	10.5	13.5
	124	5620	10.5	10.5	10.5	10.5	13.5
	132	5660	10.5	10.5	10.5	10.5	13.5
	140	5700	10.5	10.5	10.5	10.5	13.5
	144	5720	10.5	10.5	10.5	10.5	13.5
802.11n HT40	102	5510	10.5	10.5	10.5	10.5	13.5
	110	5550	10.5	10.5	10.5	10.5	13.5
	118	5590	10.5	10.5	10.5	10.5	13.5
	126	5630	10.5	10.5	10.5	10.5	13.5
	134	5670	10.5	10.5	10.5	10.5	13.5
	142	5710	10.5	10.5	10.5	10.5	13.5
802.11ac VHT80	106	5530	10.5	10.5	10.5	10.5	13.5
	122	5610	10.5	10.5	10.5	10.5	13.5
	138	5690	10.5	10.5	10.5	10.5	13.5
802.11ac VHT160	114	5570	10.5	10.5	10.5	10.5	13.5
802.11ax HE20	100	5500	10.5	10.5	10.5	10.5	13.5
	116	5580	10.5	10.5	10.5	10.5	13.5
	120	5600	10.5	10.5	10.5	10.5	13.5
	124	5620	10.5	10.5	10.5	10.5	13.5
	132	5660	10.5	10.5	10.5	10.5	13.5
	140	5700	10.5	10.5	10.5	10.5	13.5
	144	5720	10.5	10.5	10.5	10.5	13.5
802.11ax HE40	102	5510	10.5	10.5	10.5	10.5	13.5
	110	5550	10.5	10.5	10.5	10.5	13.5
	118	5590	10.5	10.5	10.5	10.5	13.5
	126	5630	10.5	10.5	10.5	10.5	13.5
	134	5670	10.5	10.5	10.5	10.5	13.5
	142	5710	10.5	10.5	10.5	10.5	13.5
802.11ax HE80	106	5530	10.5	10.5	10.5	10.5	13.5
	122	5610	10.5	10.5	10.5	10.5	13.5
	138	5690	10.5	10.5	10.5	10.5	13.5
802.11ax HE160	114	5570	10.5	10.5	10.5	10.5	13.5

WLAN Tune-up Power - Tablet Mode							
WLAN 5.8GHz							
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
802.11a	149	5745	10.5	10.5	-	-	-
	153	5765	10.5	10.5	-	-	-
	157	5785	10.5	10.5	-	-	-
	161	5805	10.5	10.5	-	-	-
	165	5825	10.5	10.5	-	-	-
802.11n HT20	149	5745	10.5	10.5	10.5	10.5	13.5
	153	5765	10.5	10.5	10.5	10.5	13.5
	157	5785	10.5	10.5	10.5	10.5	13.5
	161	5805	10.5	10.5	10.5	10.5	13.5
	165	5825	10.5	10.5	10.5	10.5	13.5
802.11n HT40	151	5755	10.5	10.5	10.5	10.5	13.5
	159	5795	10.5	10.5	10.5	10.5	13.5
802.11ac VHT80	155	5775	10.5	10.5	10.5	10.5	13.5
802.11ax HE20	149	5745	10.5	10.5	10.5	10.5	13.5
	153	5765	10.5	10.5	10.5	10.5	13.5
	157	5785	10.5	10.5	10.5	10.5	13.5
	161	5805	10.5	10.5	10.5	10.5	13.5
	165	5825	10.5	10.5	10.5	10.5	13.5
802.11ax HE40	151	5755	10.5	10.5	10.5	10.5	13.5
	159	5795	10.5	10.5	10.5	10.5	13.5
802.11ax HE80	155	5775	10.5	10.5	10.5	10.5	13.5

WLAN Tune-up Power - Tablet Mode							
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	5.0	5.0	8.0
	5	5965	5.0	5.0	5.0	5.0	8.0
	9	5985	5.0	5.0	5.0	5.0	8.0
	13	6005	5.0	5.0	5.0	5.0	8.0
	17	6025	5.0	5.0	5.0	5.0	8.0
	21	6045	5.0	5.0	5.0	5.0	8.0
	25	6065	5.0	5.0	5.0	5.0	8.0
	29	6085	5.0	5.0	5.0	5.0	8.0
	33	6105	5.0	5.0	5.0	5.0	8.0
	37	6125	5.0	5.0	5.0	5.0	8.0
	41	6145	5.0	5.0	5.0	5.0	8.0
	45	6165	5.0	5.0	5.0	5.0	8.0
	49	6185	5.0	5.0	5.0	5.0	8.0
	53	6205	5.0	5.0	5.0	5.0	8.0
	57	6225	5.0	5.0	5.0	5.0	8.0
	61	6245	5.0	5.0	5.0	5.0	8.0
	65	6265	5.0	5.0	5.0	5.0	8.0
	69	6285	5.0	5.0	5.0	5.0	8.0
	73	6305	5.0	5.0	5.0	5.0	8.0
	77	6325	5.0	5.0	5.0	5.0	8.0
	81	6345	5.0	5.0	5.0	5.0	8.0
	85	6365	5.0	5.0	5.0	5.0	8.0
	89	6385	5.0	5.0	5.0	5.0	8.0
	93	6405	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	3	5955	8.0	8.0	8.0	8.0	11.0
	11	5995	8.0	8.0	8.0	8.0	11.0
	19	6035	8.0	8.0	8.0	8.0	11.0
	27	6075	8.0	8.0	8.0	8.0	11.0
	35	6115	8.0	8.0	8.0	8.0	11.0
	43	6155	8.0	8.0	8.0	8.0	11.0
	51	6195	8.0	8.0	8.0	8.0	11.0
	59	6235	8.0	8.0	8.0	8.0	11.0
	67	6275	8.0	8.0	8.0	8.0	11.0
	75	6315	8.0	8.0	8.0	8.0	11.0
	83	6355	8.0	8.0	8.0	8.0	11.0
	91	6395	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	7	5975	10.0	10.0	10.0	10.0	13.0
	23	6055	10.0	10.0	10.0	10.0	13.0
	39	6135	10.0	10.0	10.0	10.0	13.0
	55	6215	10.0	10.0	10.0	10.0	13.0
	71	6295	10.0	10.0	10.0	10.0	13.0
	87	6375	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	15	6015	11.5	11.5	11.5	11.5	14.5
	47	6175	11.5	11.5	11.5	11.5	14.5
	79	6335	11.5	11.5	11.5	11.5	14.5

WLAN Tune-up Power - Tablet Mode							
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	5.0	5.0	8.0
	101	6445	5.0	5.0	5.0	5.0	8.0
	105	6465	5.0	5.0	5.0	5.0	8.0
	109	6485	5.0	5.0	5.0	5.0	8.0
	113	6505	5.0	5.0	5.0	5.0	8.0
	117	6525	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	99	6435	8.0	8.0	8.0	8.0	11.0
	107	6475	8.0	8.0	8.0	8.0	11.0
	115	6515	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	103	6455	10.0	10.0	10.0	10.0	13.0
	119	6535	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	111	6495	11.5	11.5	11.5	11.5	14.5

WLAN Tune-up Power - Tablet Mode							
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	5.0	5.0	8.0
	125	6565	5.0	5.0	5.0	5.0	8.0
	129	6585	5.0	5.0	5.0	5.0	8.0
	133	6605	5.0	5.0	5.0	5.0	8.0
	137	6625	5.0	5.0	5.0	5.0	8.0
	141	6645	5.0	5.0	5.0	5.0	8.0
	145	6665	5.0	5.0	5.0	5.0	8.0
	149	6685	5.0	5.0	5.0	5.0	8.0
	153	6705	5.0	5.0	5.0	5.0	8.0
	157	6725	5.0	5.0	5.0	5.0	8.0
	161	6745	5.0	5.0	5.0	5.0	8.0
	165	6765	5.0	5.0	5.0	5.0	8.0
	169	6785	5.0	5.0	5.0	5.0	8.0
	173	6805	5.0	5.0	5.0	5.0	8.0
	177	6825	5.0	5.0	5.0	5.0	8.0
	181	6845	5.0	5.0	5.0	5.0	8.0
	185	6865	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	123	6555	8.0	8.0	8.0	8.0	11.0
	131	6595	8.0	8.0	8.0	8.0	11.0
	139	6635	8.0	8.0	8.0	8.0	11.0
	147	6675	8.0	8.0	8.0	8.0	11.0
	155	6715	8.0	8.0	8.0	8.0	11.0
	163	6755	8.0	8.0	8.0	8.0	11.0
	171	6795	8.0	8.0	8.0	8.0	11.0
	179	6835	8.0	8.0	8.0	8.0	11.0
	187	6875	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	135	6615	10.0	10.0	10.0	10.0	13.0
	151	6695	10.0	10.0	10.0	10.0	13.0
	167	6775	10.0	10.0	10.0	10.0	13.0
	183	6855	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	143	6655	11.5	11.5	11.5	11.5	14.5
	175	6815	11.5	11.5	11.5	11.5	14.5

WLAN Tune-up Power - Tablet Mode							
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	5.0	5.0	8.0
	193	6905	5.0	5.0	5.0	5.0	8.0
	197	6925	5.0	5.0	5.0	5.0	8.0
	201	6945	5.0	5.0	5.0	5.0	8.0
	205	6965	5.0	5.0	5.0	5.0	8.0
	209	6985	5.0	5.0	5.0	5.0	8.0
	213	7005	5.0	5.0	5.0	5.0	8.0
	217	7025	5.0	5.0	5.0	5.0	8.0
	221	7045	5.0	5.0	5.0	5.0	8.0
	225	7065	5.0	5.0	5.0	5.0	8.0
	229	7085	5.0	5.0	5.0	5.0	8.0
	233	7105	5.0	5.0	5.0	5.0	8.0
802.11ax HE40	195	6915	8.0	8.0	8.0	8.0	11.0
	203	6955	8.0	8.0	8.0	8.0	11.0
	211	6995	8.0	8.0	8.0	8.0	11.0
	219	7035	8.0	8.0	8.0	8.0	11.0
	227	7075	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	199	6935	10.0	10.0	10.0	10.0	13.0
	215	7015	10.0	10.0	10.0	10.0	13.0
802.11ax HE160	207	6975	11.5	11.5	11.5	11.5	14.5

Annex E. Measured Conducted Power Result

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

Conducted Power - Laptop Mode			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	19.72
	6	2437	19.71
	11	2462	19.68
	12	2467	16.55
	13	2472	15.67

Conducted Power - Laptop Mode			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	19.37
	6	2437	19.3
	11	2462	19.36
	12	2467	16.06
	13	2472	15.31

Conducted Power - Laptop Mode					
WLAN2.4GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11n HT40	3	2422	15.97	15.81	18.90
	6	2437	18.16	17.97	21.08
	9	2452	16.13	15.83	18.99
	10	2457	13.39	12.96	16.19
	11	2462	11.03	10.98	14.02

Conducted Power - Laptop Mode			
Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	9.46
	39	2441	9.59
	78	2480	9.83
LE	0	2402	7.99
	19	2440	8.24
	39	2480	8.42

Conducted Power - Laptop Mode			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT160	50	5250	11.32

Conducted Power - Laptop Mode			
WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT160	50	5250	11.39

Conducted Power - Laptop Mode					
WLAN 5.3GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT160	50	5250	11.46	11.47	14.48

Conducted Power - Laptop Mode			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT160	114	5570	11.33

Conducted Power - Laptop Mode			
WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT160	114	5570	11.45

Conducted Power - Laptop Mode					
WLAN 5.6GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT160	114	5570	11.49	11.43	14.47

Conducted Power - Laptop Mode			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT80	155	5775	11.25

Conducted Power - Laptop Mode			
WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT80	155	5775	11.31

Conducted Power - Laptop Mode					
WLAN 5.8GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT80	155	5775	11.42	11.45	14.45

Conducted Power - Laptop Mode			
UNII-5 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	15	6025	9.99
	47	6185	9.79
	79	6345	9.95

Conducted Power - Laptop Mode			
UNII-5 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	15	6025	9.96
	47	6185	9.78
	79	6345	9.83

Conducted Power - Laptop Mode					
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	9.77	9.89	12.84
	47	6185	9.39	9.79	12.6
	79	6345	9.68	9.82	12.76

Conducted Power - Laptop Mode			
UNII-6 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	111	6505	9.98

Conducted Power - Laptop Mode			
UNII-6 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	111	6505	9.64

Conducted Power - Laptop Mode					
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	9.77	9.55	12.67

Conducted Power - Laptop Mode			
UNII-7 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	143	6665	9.75
	175	6825	9.88

Conducted Power - Laptop Mode			
UNII-7 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	143	6665	9.77
	175	6825	9.81

Conducted Power - Laptop Mode					
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	9.72	9.49	12.62
	175	6825	9.7	9.8	12.76

Conducted Power - Laptop Mode			
UNII-8 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	207	6985	9.92

Conducted Power - Laptop Mode			
UNII-8 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	207	6985	9.79

Conducted Power - Laptop Mode					
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	9.71	9.9	12.82

Conducted Power -Tablet Mode			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	13.97
	6	2437	13.9
	11	2462	13.81
	12	2467	13.79
	13	2472	13.85

Conducted Power -Tablet Mode			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	13.99
	6	2437	13.89
	11	2462	13.95
	12	2467	13.92
	13	2472	13.9

Conducted Power -Tablet Mode					
WLAN2.4GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11n HT40	3	2422	13.8	13.9	16.86
	6	2437	13.89	13.85	16.88
	9	2452	13.65	13.9	16.79
	10	2457	13.59	13.79	16.7
	11	2462	11.03	10.98	14.02

Conducted Power -Tablet Mode			
Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	9.46
	39	2441	9.59
	78	2480	9.83
LE	0	2402	7.99
	19	2440	8.24
	39	2480	8.42

Conducted Power -Tablet Mode			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT160	50	5250	10.42

Conducted Power -Tablet Mode			
WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT160	50	5250	10.46

Conducted Power -Tablet Mode					
WLAN 5.3GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT160	50	5250	10.45	10.48	13.48

Conducted Power -Tablet Mode			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT160	114	5570	10.4

Conducted Power -Tablet Mode			
WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT160	114	5570	10.4

Conducted Power -Tablet Mode					
WLAN 5.6GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT160	114	5570	10.4	10.42	13.42

Conducted Power -Tablet Mode			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ac VHT80	155	5775	10.29

Conducted Power -Tablet Mode			
WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ac VHT80	155	5775	10.47

Conducted Power -Tablet Mode					
WLAN 5.8GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11ac VHT80	155	5775	10.48	10.49	13.5

Conducted Power -Tablet Mode			
UNII-5 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	15	6025	11.37
	47	6185	11.36
	79	6345	11.31

Conducted Power -Tablet Mode			
UNII-5 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	15	6025	11.47
	47	6185	11.41
	79	6345	11.41

Conducted Power -Tablet Mode					
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	11.37	11.47	14.43
	47	6185	11.36	11.41	14.4
	79	6345	11.31	11.41	14.37

Conducted Power -Tablet Mode			
UNII-6 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	111	6505	11.29

Conducted Power -Tablet Mode			
UNII-6 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	111	6505	11.36

Conducted Power -Tablet Mode					
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	11.29	11.36	14.34

Conducted Power -Tablet Mode			
UNII-7 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	143	6665	11.21
	175	6825	11.31

Conducted Power -Tablet Mode			
UNII-7 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	143	6665	11.3
	175	6825	11.42

Conducted Power -Tablet Mode					
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	11.21	11.3	14.27
	175	6825	11.31	11.42	14.38

Conducted Power -Tablet Mode			
UNII-8 Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11ax HE160	207	6985	11.36

Conducted Power -Tablet Mode			
UNII-8 Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11ax HE160	207	6985	11.46

Conducted Power -Tablet Mode					
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	11.36	11.46	14.42

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.
2. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

Body SAR Test Result

System & Position						DUT & Accessory		SAR								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Manufacturer	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
1	WLAN2.4G	802.11b	Bottom	0	1	Pulse	Ant 0	99.30	1.01	20.00	19.72	1.07	-0.07	1.09	1.09	1.18
	WLAN2.4G	802.11b	Bottom	0	1	Pulse	Ant 1	99.30	1.01	20.00	19.37	1.16	0.03	0.395	0.395	0.46
	WLAN2.4G	802.11n HT40	Bottom	0	6	Pulse	Ant 0+1	99.50	1.01	23.00	21.08	1.56	0.05	0.71	0.71	1.12
	WLAN2.4G	802.11b	Rear Face	0	1	Pulse	Ant 0	99.30	1.01	14.00	13.97	1.01	0.1	0.335	0.335	0.34
	WLAN2.4G	802.11b	Left Side	0	1	Pulse	Ant 0	99.30	1.01	14.00	13.97	1.01	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	1	Pulse	Ant 0	99.30	1.01	14.00	13.97	1.01	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	1	Pulse	Ant 0	99.30	1.01	14.00	13.97	1.01	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	1	Pulse	Ant 0	99.30	1.01	14.00	13.97	1.01	0.02	0.6	0.6	0.61
	WLAN2.4G	802.11b	Rear Face	0	1	Pulse	Ant 1	99.30	1.01	14.00	13.99	1.00	0.01	0.086	0.086	0.09
	WLAN2.4G	802.11b	Left Side	0	1	Pulse	Ant 1	99.30	1.01	14.00	13.99	1.00	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	1	Pulse	Ant 1	99.30	1.01	14.00	13.99	1.00	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	1	Pulse	Ant 1	99.30	1.01	14.00	13.99	1.00	0	0.001	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	1	Pulse	Ant 1	99.30	1.01	14.00	13.99	1.00	0.03	0.214	0.214	0.22
	WLAN2.4G	802.11n HT40	Rear Face	0	6	Pulse	Ant 0+1	99.50	1.01	17.00	16.88	1.03	-0.01	0.311	0.311	0.32
	WLAN2.4G	802.11n HT40	Left Side	0	6	Pulse	Ant 0+1	99.50	1.01	17.00	16.88	1.03	0	0.001	<0.001	0.00
	WLAN2.4G	802.11n HT40	Right Side	0	6	Pulse	Ant 0+1	99.50	1.01	17.00	16.88	1.03	0	0.001	<0.001	0.00
	WLAN2.4G	802.11n HT40	Top Side	0	6	Pulse	Ant 0+1	99.50	1.01	17.00	16.88	1.03	0	0.001	<0.001	0.00
	WLAN2.4G	802.11n HT40	Bottom Side	0	6	Pulse	Ant 0+1	99.50	1.01	17.00	16.88	1.03	-0.06	0.716	0.716	0.74
	WLAN2.4G	802.11b	Bottom	0	6	Pulse	Ant 0	99.30	1.01	20.00	19.71	1.07	0.04	0.969	0.969	1.05
	WLAN2.4G	802.11b	Bottom	0	11	Pulse	Ant 0	99.30	1.01	20.00	19.68	1.08	0.11	0.931	0.931	1.02
	WLAN2.4G	802.11b	Bottom	0	12	Pulse	Ant 0	99.30	1.01	17.00	16.55	1.11	-0.12	0.514	0.514	0.58
	WLAN2.4G	802.11b	Bottom	0	13	Pulse	Ant 0	99.30	1.01	16.00	15.67	1.08	-0.05	0.498	0.498	0.54
	WLAN2.4G	802.11n HT40	Bottom	0	3	Pulse	Ant 0+1	99.50	1.01	20.00	18.90	1.29	-0.06	0.519	0.519	0.68
	WLAN2.4G	802.11n HT40	Bottom	0	9	Pulse	Ant 0+1	99.50	1.01	20.00	18.99	1.26	-0.07	0.524	0.524	0.67
	WLAN2.4G	802.11n HT40	Bottom	0	10	Pulse	Ant 0+1	99.50	1.01	17.00	16.19	1.21	0.06	0.271	0.271	0.33
	WLAN2.4G	802.11n HT40	Bottom	0	11	Pulse	Ant 0+1	99.50	1.01	15.00	14.02	1.25	-0.01	0.138	0.138	0.17
	WLAN2.4G	802.11b	Bottom	0	1	CHILISIN	Ant 0	99.30	1.01	20.00	19.72	1.07	-0.01	1.04	1.04	1.12
	WLAN2.4G	802.11b	Bottom	0	6	CHILISIN	Ant 0	99.30	1.01	20.00	19.71	1.07	0.11	0.925	0.925	1.00
	WLAN2.4G	802.11b	Bottom	0	11	CHILISIN	Ant 0	99.30	1.01	20.00	19.68	1.08	-0.12	0.888	0.888	0.97
	WLAN2.4G	802.11b	Bottom	0	12	CHILISIN	Ant 0	99.30	1.01	17.00	16.55	1.11	-0.08	0.49	0.49	0.55
	WLAN2.4G	802.11b	Bottom	0	13	CHILISIN	Ant 0	99.30	1.01	16.00	15.67	1.08	0.05	0.475	0.475	0.52
	WLAN2.4G	802.11b	Bottom	0	1	Pulse	Ant 0	99.30	1.01	20.00	19.72	1.07	-0.05	1.07	1.07	1.16
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	Pulse	Ant 0	97.30	1.03	11.50	11.32	1.04	-0.05	1.01	1.01	1.08
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	Pulse	Ant 1	98.00	1.02	11.50	11.39	1.03	-0.07	0.96	0.96	1.01
2	WLAN5.3G	802.11ac VHT160	Bottom	0	50	Pulse	Ant 0+1	97.80	1.02	14.50	14.48	1.00	-0.07	1.15	1.15	1.17
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Pulse	Ant 0	97.30	1.03	10.50	10.42	1.02	-0.03	0.255	0.255	0.27
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Pulse	Ant 0	97.30	1.03	10.50	10.42	1.02	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Pulse	Ant 0	97.30	1.03	10.50	10.42	1.02	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Pulse	Ant 0	97.30	1.03	10.50	10.42	1.02	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Pulse	Ant 0	97.30	1.03	10.50	10.42	1.02	0.03	0.62	0.62	0.65
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Pulse	Ant 1	98.00	1.02	10.50	10.46	1.01	0.01	0.144	0.144	0.15
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Pulse	Ant 1	98.00	1.02	10.50	10.46	1.01	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Pulse	Ant 1	98.00	1.02	10.50	10.46	1.01	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Pulse	Ant 1	98.00	1.02	10.50	10.46	1.01	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Pulse	Ant 1	98.00	1.02	10.50	10.46	1.01	0.12	0.834	0.834	0.86

Body SAR Test Result

System & Position						DUT & Accessory		SAR								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Manufacturer	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Pulse	Ant 0+1	97.80	1.02	13.50	13.48	1.00	0.09	0.233	0.233	0.24
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Pulse	Ant 0+1	97.80	1.02	13.50	13.48	1.00	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Pulse	Ant 0+1	97.80	1.02	13.50	13.48	1.00	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Pulse	Ant 0+1	97.80	1.02	13.50	13.48	1.00	0	0.001	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Pulse	Ant 0+1	97.80	1.02	13.50	13.48	1.00	0.11	0.889	0.889	0.91
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	CHILISIN	Ant 0+1	97.80	1.02	14.50	14.48	1.00	-0.09	0.783	0.783	0.80
	WLAN5.3G	802.11ac VHT160	Bottom	0	50	Pulse	Ant 0+1	97.80	1.02	14.50	14.48	1.00	-0.15	1.12	1.12	1.14
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	Pulse	Ant 0	97.30	1.03	11.50	11.33	1.04	0.03	1.04	1.04	1.11
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	Pulse	Ant 1	98.00	1.02	11.50	11.45	1.01	0.02	1.02	1.02	1.05
3	WLAN5.6G	802.11ac VHT160	Bottom	0	114	Pulse	Ant 0+1	97.80	1.02	14.50	14.47	1.01	-0.03	1.15	1.15	1.18
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Pulse	Ant 0	97.30	1.03	10.50	10.40	1.02	0.08	0.395	0.395	0.41
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Pulse	Ant 0	97.30	1.03	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Pulse	Ant 0	97.30	1.03	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Pulse	Ant 0	97.30	1.03	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Pulse	Ant 0	97.30	1.03	10.50	10.40	1.02	-0.11	0.888	0.888	0.93
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Pulse	Ant 1	98.00	1.02	10.50	10.40	1.02	0.03	0.175	0.175	0.18
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Pulse	Ant 1	98.00	1.02	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Pulse	Ant 1	98.00	1.02	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Pulse	Ant 1	98.00	1.02	10.50	10.40	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Pulse	Ant 1	98.00	1.02	10.50	10.40	1.02	0.09	0.734	0.734	0.76
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Pulse	Ant 0+1	97.80	1.02	13.50	13.42	1.02	-0.08	0.346	0.346	0.36
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Pulse	Ant 0+1	97.80	1.02	13.50	13.42	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Pulse	Ant 0+1	97.80	1.02	13.50	13.42	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Pulse	Ant 0+1	97.80	1.02	13.50	13.42	1.02	0	0.001	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Pulse	Ant 0+1	97.80	1.02	13.50	13.42	1.02	0.02	0.958	0.958	1.00
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	CHILISIN	Ant 0+1	97.80	1.02	14.50	14.47	1.01	0.04	0.926	0.926	0.95
	WLAN5.6G	802.11ac VHT160	Bottom	0	114	Pulse	Ant 0+1	97.80	1.02	14.50	14.47	1.01	-0.16	1.11	1.11	1.14
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	Pulse	Ant 0	99.50	1.01	11.50	11.25	1.06	0.14	1.06	1.06	1.13
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	Pulse	Ant 1	98.90	1.01	11.50	11.31	1.04	0.11	1.03	1.03	1.08
4	WLAN5.8G	802.11ac VHT80	Bottom	0	155	Pulse	Ant 0+1	98.70	1.01	14.50	14.45	1.01	0.03	1.17	1.17	1.19
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Pulse	Ant 0	99.50	1.01	10.50	10.29	1.05	-0.01	0.439	0.439	0.47
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Pulse	Ant 0	99.50	1.01	10.50	10.29	1.05	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Pulse	Ant 0	99.50	1.01	10.50	10.29	1.05	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Pulse	Ant 0	99.50	1.01	10.50	10.29	1.05	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Pulse	Ant 0	99.50	1.01	10.50	10.29	1.05	0.16	0.794	0.794	0.84
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Pulse	Ant 1	98.90	1.01	10.50	10.47	1.01	-0.02	0.215	0.215	0.22
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Pulse	Ant 1	98.90	1.01	10.50	10.47	1.01	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Pulse	Ant 1	98.90	1.01	10.50	10.47	1.01	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Pulse	Ant 1	98.90	1.01	10.50	10.47	1.01	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Pulse	Ant 1	98.90	1.01	10.50	10.47	1.01	0.03	0.764	0.764	0.78
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Pulse	Ant 0+1	98.70	1.01	13.50	13.50	1.00	-0.04	0.368	0.368	0.37
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Pulse	Ant 0+1	98.70	1.01	13.50	13.50	1.00	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Pulse	Ant 0+1	98.70	1.01	13.50	13.50	1.00	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Pulse	Ant 0+1	98.70	1.01	13.50	13.50	1.00	0	0.001	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Pulse	Ant 0+1	98.70	1.01	13.50	13.50	1.00	-0.14	0.85	0.85	0.86

Body SAR Test Result

System & Position						DUT & Accessory		SAR								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Manufacturer	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	CHILISIN	Ant 0+1	98.70	1.01	14.50	14.45	1.01	-0.15	1.04	1.04	1.06
	WLAN5.8G	802.11ac VHT80	Bottom	0	155	Pulse	Ant 0+1	98.70	1.01	14.50	14.45	1.01	0.03	1.14	1.14	1.16
	BT	BR / EDR	Bottom	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	0.02	0.116	0.116	0.16
	BT	BR / EDR	Rear Face	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	0.03	0.141	0.141	0.19
	BT	BR / EDR	Left Side	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	0	0.001	<0.001	0.00
	BT	BR / EDR	Right Side	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	0	0.001	<0.001	0.00
	BT	BR / EDR	Top Side	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	0	0.001	<0.001	0.00
5	BT	BR / EDR	Bottom Side	0	78	Pulse	Ant 1	76.50	1.31	10.00	9.83	1.04	-0.10	0.293	0.293	0.40
	BT	BR / EDR	Bottom Side	0	0	Pulse	Ant 1	76.50	1.31	10.00	9.46	1.13	-0.02	0.088	0.088	0.13
	BT	BR / EDR	Bottom Side	0	39	Pulse	Ant 1	76.50	1.31	10.00	9.59	1.10	0.06	0.172	0.172	0.25
	BT	BR / EDR	Bottom Side	0	78	CHILISIN	Ant 1	76.50	1.31	10.00	9.83	1.04	0.09	0.254	0.254	0.35

SAR and Power Density Test Result

System & Position						DUT & Accessory		SAR									Power Density									
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Antenna Manufacturer	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	Measured APD W/m^2 (4cm^2)	Grid Step [λ]	iPD [W/m2]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm2]	Power Drift [dB]	Normal psPD [W/m2]	Scaled Normal psPD [W/m2]	Total psPD [W/m2]	Scaled Total psPD [W/m2]
	UNII-5	802.11ax HE160	Bottom	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	0.02	0.214	0.22	4.76			-				-		-
	UNII-5	802.11ax HE160	Bottom	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	-0.06	0.299	0.31	7.45			-				-		-
	UNII-5	802.11ax HE160	Bottom	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	0.05	0.331	0.34	7.53			-				-		-
	UNII-5	802.11ax HE160	Rear Face	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	0.11	0.086	0.09	1.87			-				-		-
	UNII-5	802.11ax HE160	Left Side	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	-0.04	0.0091	0.01	0.181			-				-		-
	UNII-5	802.11ax HE160	Right Side	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	0	0.001	0.00	0			-				-		-
	UNII-5	802.11ax HE160	Top Side	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	0	0.001	0.00	0			-				-		-
	UNII-5	802.11ax HE160	Bottom Side	0	15	Pulse	Ant 0	98.40	1.02	11.50	11.37	1.03	0.07	0.331	0.35	6.63			-				-		-
	UNII-5	802.11ax HE160	Rear Face	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	0.08	0.063	0.06	1.37			-				-		-
	UNII-5	802.11ax HE160	Left Side	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	0	0.001	0.00	0			-				-		-
	UNII-5	802.11ax HE160	Right Side	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	0	0.001	0.00	0			-				-		-
	UNII-5	802.11ax HE160	Top Side	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	0	0.001	0.00	0			-				-		-
6	UNII-5	802.11ax HE160	Bottom Side	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	0.02	1.12	1.15	6.15	0.25	5.16	1.545	4.00	0.02	2.32	3.66	2.56	**4.03**
	UNII-5	802.11ax HE160	Rear Face	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	0.06	0.109	0.11	1.91			-				-		-
	UNII-5	802.11ax HE160	Left Side	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	0.02	0.00763	0.01	0.191			-				-		-
	UNII-5	802.11ax HE160	Right Side	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	0	0.001	0.00	0			-				-		-
	UNII-5	802.11ax HE160	Top Side	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	0.07	0.00939	0.01	0.205			-				-		-
	UNII-5	802.11ax HE160	Bottom Side	0	15	Pulse	Ant 0+1	98.40	1.02	14.50	14.43	1.02	-0.03	0.319	0.33	6.76			-				-		-
	UNII-5	802.11ax HE160	Bottom Side	0	47	Pulse	Ant 1	98.40	1.02	10.00	9.78	1.05	0.08	0.248	0.27	5.01			-				-		-
	UNII-5	802.11ax HE160	Bottom Side	0	79	Pulse	Ant 1	98.40	1.02	10.00	9.83	1.04	-0.06	0.27	0.29	5.17			-				-		-
	UNII-6	802.11ax HE160	Bottom Side	0	111	Pulse	Ant 1	98.40	1.02	10.00	9.64	1.09	0.04	0.275	0.31	5.86			-				-		-
	UNII-7	802.11ax HE160	Bottom Side	0	143	Pulse	Ant 1	98.40	1.02	10.00	9.77	1.05	-0.02	0.283	0.30	6.7			-				-		-
	UNII-7	802.11ax HE160	Bottom Side	0	175	Pulse	Ant 1	98.40	1.02	10.00	9.81	1.04	0.01	0.317	0.34	6.29			-				-		-
	UNII-8	802.11ax HE160	Bottom Side	0	207	Pulse	Ant 1	98.40	1.02	10.00	9.79	1.05	-0.08	0.349	0.37	7.54			-				-		-
	UNII-8	802.11ax HE160	Bottom Side	0	15	CHILISIN	Ant 1	98.40	1.02	10.00	9.79	1.05	0.05	0.264	0.28	5.21			-				-		-
	UNII-5	802.11ax HE160	Bottom Side	0	15	Pulse	Ant 1	98.40	1.02	11.50	11.47	1.01	-0.15	1.08	1.11	6.05			-				-		-

Annex G. SAR Measurement Variability

SAR repeated measurement are shown as below.

Repeat SAR							
Plot	Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio
R01	WLAN2.4G	802.11b	Bottom	1	1.09	1.07	1.02
R02	WLAN5.3G	802.11ac VHT160	Bottom	50	1.15	1.12	1.03
R03	WLAN5.6G	802.11ac VHT160	Bottom	114	1.15	1.11	1.04
R04	WLAN5.8G	802.11ac VHT80	Bottom	155	1.17	1.14	1.03
R06	UNII-5	802.11ax HE160	Bottom Side	15	1.12	1.08	1.04

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	WLAN 2.4G + BT	Yes
B	WLAN 5G + BT	Yes
C	WLAN 6G + BT	Yes

Notes

1. The WLAN 2.4G , 5G and 6G cannot transmit simultaneously.

Simultaneous Transmission SAR Evaluation							
Position	1	2	3	4	A (1 + 4)	B (2 + 4)	C (3 + 4)
	Max WLAN 2.4GHz	Max WLAN 5GHz	Max WLAN 6GHz	Max BT	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			
Bottom	1.18	1.19	0.34	0.16	1.34	1.35	0.50
Rear Face	0.34	0.47	0.11	0.19	0.53	0.66	0.30
Left Side	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Right Side	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Side	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Bottom Side	0.74	1.00	1.18	0.40	1.14	1.40	1.58

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 I. Calibration of Test Equipment List

Calibration of Test Equipment List are shown as below.

Equipment for SAR Test					
Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	737	Aug. 26, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1019	Mar. 19, 2021	1 Year
System Validation Dipole	SPEAG	D6.5GHzV2	1029	Feb. 10, 2021	1 Year
System Verification Source	SPEAG	5G Verification Source 10 GHz	1025	Jan. 17, 2022	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7537	Apr. 26, 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	861	Apr. 14, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1585	Apr. 15, 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
Analong Signal Generator	R&S	SMA100B	104417	Oct. 22, 2021	1 Year
Mini-Circuits Wideband Amplifier	Mini-Circuits	ZVA-183-S+	434502031A	Aug. 20, 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

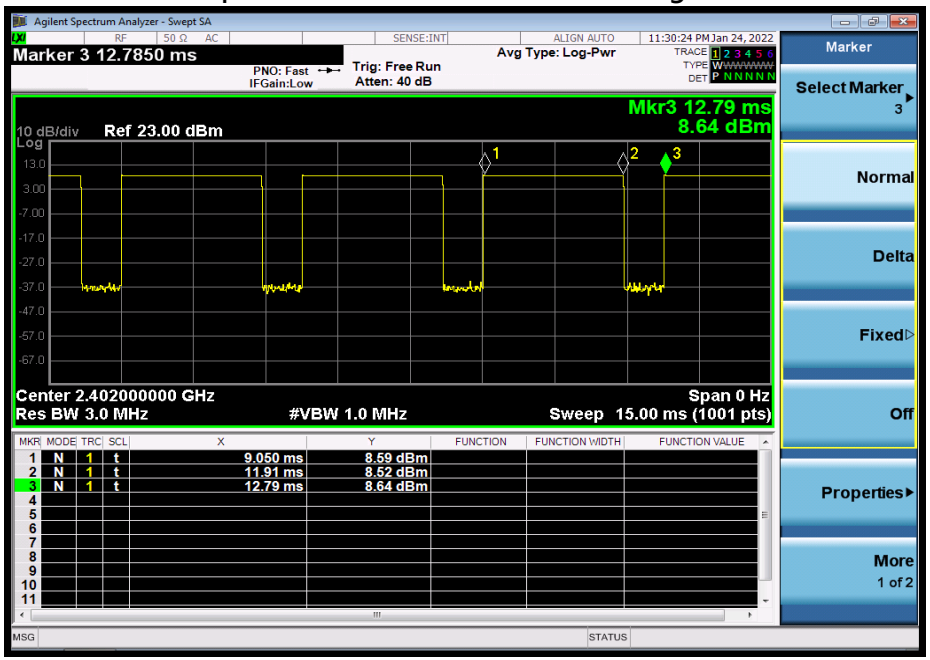
Annex K. Considerations Related to Bluetooth for Setup and Testing

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

The Bluetooth call box has been used during SAR measurement and the EUT was set to **DH5** mode at the maximum output power. Its duty factor was calculated as below and the measured SAR for Bluetooth would be scaled to the 100% transmission duty factor to determine compliance.

The duty factor of Bluetooth signal are shown as below.

<Time-domain plot for Bluetooth transmission signal>



Time-domain plot for Bluetooth transmission signal

The duty factor of Bluetooth signal has been calculated as following.

Duty Factor = Pulse Width / Total Period = (11.91 - 9.05) / (12.79 - 9.05) = 76.47%

Annex L. Verifying the Mechanism Operation of Gravity-sensor

The power verified by LCD angle changed are shown as below..

<Power Reduction by LCD Angle Changed and Verifying Power Level of operating Laptop and Tablet mode on Setp A ~ G>

Test Band：802.11b ch.6 Ant 0 for WLAN 2.4G Representative

Summary

<A> From lid closed when LCD is 0° which power is subject to Laptop user mode, opening the screen side in 10° each step until the power of Tablet mode is obtained.

Degrees	0	10	20	30	40	50	150	160	170	180	190	200
Power (dBm)	19.2	19.4	19.5	19.3	19.7	19.7	19.4	19.4	19.6	19.3	19.7	13.4

The Power level changed by LCD Triggering Angle is 190°

<B> Close the screen side in 5° each step from Step A, the power of Laptop mode is reobtained.

Degrees	185	190	195	200
Power (dBm)	19.2	19.5	13.5	13.2

<C> Verfying the power changed in 1° at each step.

Degrees	198	199	190	191	192
Power (dBm)	19.8	19.8	19.6	13.2	13.2

<D>Then Keep opening the screen side in 10° each step until fully open when LCD angle.

Degrees	0	10	20	30	40	50	180	190	200	210	220	340	350	360
Power (dBm)	19.2	19.5	19.5	19.5	19.8	19.7	19.7	19.2	13.7	13.7	13.4	13.2	13.3	13.5

<E> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 10° each step until the power subject to operating Laptop mode is obtained.

Degrees	360	350	340	330	320	310	200	190	180
Power (dBm)	13.3	13.8	13.7	13.3	13.6	13.4	13.6	19.4	19.6

<F> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 5° each step until fully closed.

Degrees	360	355	350	345	340	335	330	325	320	315	310	195	190	185	10	5	0
Power (dBm)	13.7	13.8	13.8	13.6	13.3	13.3	13.3	13.5	13.3	13.6	13.8	13.2	19.6	19.3	19.6	19.7	19.2

<G> Closing the screen side in 1° each step until the power subject to operating Laptop mode is obtained and keep closing until fully closed.

Degrees	360	359	358	357	356	355	354	353	352	351	350	192	191	190	199	198	199	198	5	4	3	2	1	0
Power (dBm)	13.7	13.8	13.7	13.3	13.8	13.8	13.7	13.6	13.3	13.4	13.8	13.3	13.6	19.5	19.2	19.8	19.2	19.8	19.8	19.2	19.2	19.5	19.4	19.6

Test Band：802.11ac ch.50 Ant 0 for WLAN 5.3G Representative

Summary

<A> From lid closed when LCD is 0° which power is subject to Laptop user mode, opening the screen side in 10° each step until the power of Tablet mode is obtained.

Degrees	0	10	20	30	40	50	150	160	170	180	190	200
Power (dBm)	11.3	11.1	10.8	11.0	11.3	11.1	11.1	11.3	11.2	10.9	11.0	10.2

The Power level changed by LCD Triggering Angle is 190°

<B> Close the screen side in 5° each step from Step A, the power of Laptop mode is reobtained.

Degrees	185	190	195	200
Power (dBm)	10.9	11.1	10.0	9.9

<C> Verfying the power changed in 1° at each step.

Degrees	198	199	190	191	192
Power (dBm)	10.7	11.1	10.9	10.2	9.9

<D>Then Keep opening the screen side in 10° each step until fully open when LCD angle.

Degrees	0	10	20	30	40	50	180	190	200	210	220	340	350	360
Power (dBm)	11.1	11	10.7	10.8	11.2	10.9	10.8	11.2	9.7	10.1	10	10.1	10.1	10.3

<E> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 10° each step until the power subject to operating Laptop mode is obtained.

Degrees	360	350	340	330	320	310	200	190	180
Power (dBm)	10.2	10.1	9.7	9.9	10.1	9.9	324	10.9	11.3

<F> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 5° each step until fully closed.

Degrees	360	355	350	345	340	335	330	325	320	315	310	195	190	185	10	5	0
Power (dBm)	9.9	9.8	10.3	10.1	10.1	9.8	10.2	9.9	9.8	10.3	9.8	10.1	10.9	11.3	10.9	11	11.2

<G> Closing the screen side in 1° each step until the power subject to operating Laptop mode is obtained and keep closing until fully closed.

Degrees	360	359	358	357	356	355	354	353	352	351	350	192	191	190	199	198	199	198	5	4	3	2	1	0
Power (dBm)	10.3	9.8	10.1	10.2	10.1	9.7	9.7	9.8	10.2	10.1	10.2	10	10	11.2	11.2	11.2	11	11.3	11	11.3	10.8	11.3	11.2	11.2

Test Band：802.11ax ch.47 Ant 0 for WLAN 6G Representative

Summary

<A> From lid closed when LCD is 0° which power is subject to Laptop user mode, opening the screen side in 10° each step until the power of Tablet mode is obtained.

Degrees	0	10	20	30	40	50	150	160	170	180	190	200
Power (dBm)	9.6	9.3	9.3	9.7	9.2	9.3	9.3	9.6	9.6	9.3	9.4	11.3

The Power level changed by LCD Triggering Angle is 190°

<B> Close the screen side in 5° each step from Step A, the power of Laptop mode is reobtained.

Degrees	185	190	195	200
Power (dBm)	9.5	9.5	10.8	11.1

<C> Verfying the power changed in 1° at each step.

Degrees	198	199	190	191	192
Power (dBm)	9.7	9.7	9.7	10.8	10.9

<D>Then Keep opening the screen side in 10° each step until fully open when LCD angle.

Degrees	0	10	20	30	40	50	180	190	200	210	220	340	350	360
Power (dBm)	9.4	9.2	9.3	9.2	9.6	9.8	9.4	9.4	11.0	10.9	10.9	11.1	10.8	10.7

<E> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 10° each step until the power subject to operating Laptop mode is obtained.

Degrees	360	350	340	330	320	310	200	190	180
Power (dBm)	11	11.1	11.1	11.3	11.1	11.2	-0.3	9.3	9.3

<F> From fully open when LCD is 360° which the operating mode is Tablet, closing the screen side in 5° each step until fully closed.

Degrees	360	355	350	345	340	335	330	325	320	315	310	195	190	185	10	5	0
Power (dBm)	11	10.8	11.1	11	10.8	10.9	10.9	10.8	11.1	11.2	10.9	10.7	9.2	9.6	9.7	9.3	9.8

<G> Closing the screen side in 1° each step until the power subject to operating Laptop mode is obtained and keep closing until fully closed.

Degrees	360	359	358	357	356	355	354	353	352	351	350	192	191	190	199	198	199	198	5	4	3	2	1	0
Power (dBm)	10.7	10.9	11.2	11.2	10.8	10.9	10.9	11.1	11.2	10.7	11	11.1	11.3	9.3	9.7	9.7	9.6	9.4	9.2	9.8	9.6	9.2	9.5	9.5