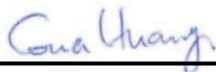


Power Density Evaluation Report

FCC ID : A4RGR83Y
Equipment : Phone
Model Name : GR83Y
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Dec. 28, 2023 and testing was started from Feb. 25, 2024 and completed on Feb. 28, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR part2.1093 and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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Appendix A. Plots of System Performance Check
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History of this test report

Report No.	Version	Description	Issued Date
FA3N2325C	01	Initial issue of report	Apr. 15, 2024
FA3N2325C	02	Update section 6, 9.3	May. 06, 2024



1. Summary

The maximum measured average power density found during testing for Google LLC, Phone, are as follows.

Standalone transmission				Simultaneous transmission with other transmitters
RF Transmitter		Measured PD (mW/cm²)	Reported PD (mW/cm²)	Summation of Exposure Ratio
5G FR2	n258	0.376	0.75	0.939
	n260	0.417	0.75	
	n261	0.293	0.75	
Result		PASS		

This device is compliance with human exposure to RF radiation limit (1.0 mW/cm²) specified in FCC 47 CFR part1.1310

Reviewed by: Jason Wang
Report Producer: Paula Chen

2. Guidance Applied

The Power Density testing specification, method, and procedure for this device is in accordance with the following standards, if the KDB standards were not list within TAF approval, because it is included in the KDB 447498.

- FCC 47 CFR Part 2.1091
- FCC 47 CFR Part 2.1093
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- TCBC workshop notes
- IEC TR 63170



3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Phone
Model Name	GR83Y
FCC ID	A4RGR83Y
S / N	41051FDAP0001Y
Frequency Band	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 5G NR n258 : 24.25 GHz~24.45 GHz, 24.75GHz ~25.25GHz 5G NR n260 : 37 GHz~40 GHz 5G NR n261 : 27.5 GHz~28.35 GHz NTN Band23: 2000 MHz ~2020 MHz NTN Band255: 1626.5 MHz ~ 1660.5 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPC: 110 kHz ~ 148.5 kHz UWB: 6489.6 MHz, 7987.2 MHz Thread: 2405 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS UMTS: RMC/AMR 12.2Kbps, HSDPA, HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM NTN: BPSK,QPSK WLAN:802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE/CS NFC: ASK WPC: ASK UWB: BPM-BPSK/HPSK Thread: QPSK

4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure above 6GHz to radio frequency (RF) radiation as specified in §1.1310.

General Population Basic restriction for power density for frequencies between 1.5GHz and 100 GHz is $1.0 \text{ mW/cm}^2 = 10 \text{ W/m}^2$

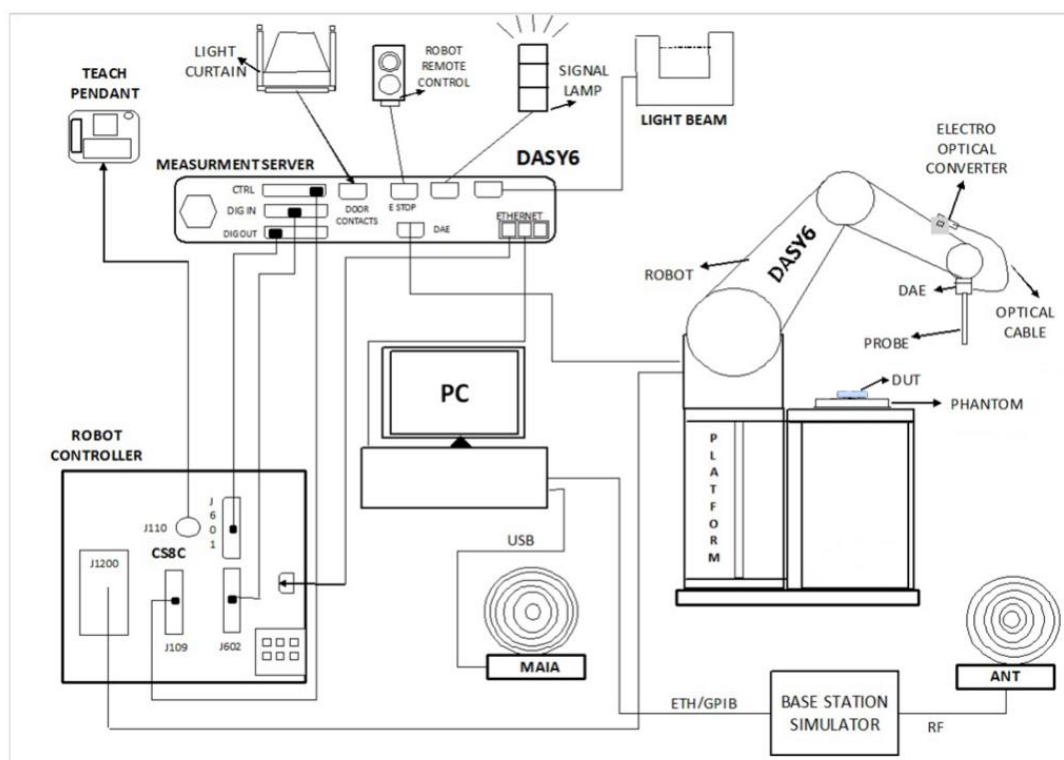
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000	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

Table 1

5. System Description and Setup

The system to be used for the near field power density measurement

- SPEAG DASY6 system
- SPEAG cDASY6 5G module software
- EUmWVx probe
- 5G Phantom cover



5.1 Test Site Location

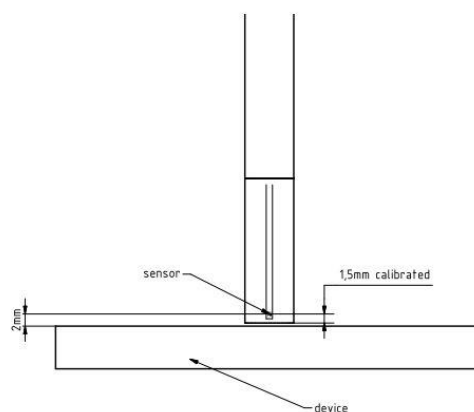
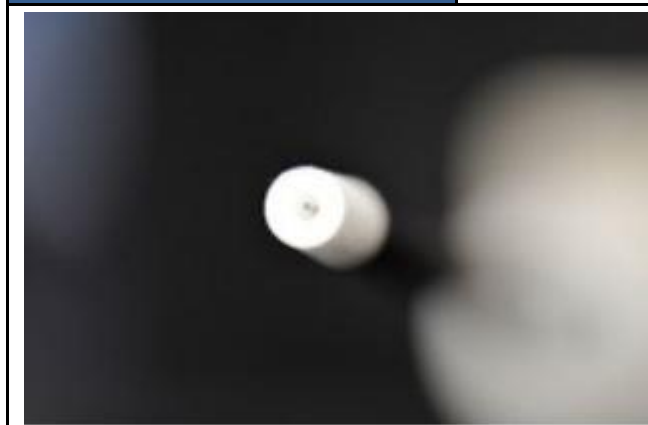
Sporton Lab and below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	SPORTON INTERNATIONAL INC. Wensan Laboratory
Test Site Location	TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, CHINESE TAIPEI
Test Site No.	SAR13-HY

5.2 EUmmWave Probe / E-Field 5G Probe

The probe design allows measurements at distances as small as 2 mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm.

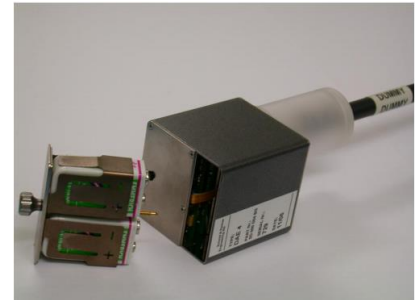
Frequency	750 MHz – 110 GHz
Probe Overall Length	320 mm
Probe Body Diameter	8.0 mm
Tip Length	23.0 mm
Tip Diameter	8.0 mm
Probe's two dipoles length	0.9 mm – Diode loaded
Dynamic Range	< 20 V/m - 10000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm
Distance between diode sensors and probe's tip	1.5 mm
Minimum Mechanical separation between probe tip and a Surface	0.5 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space) Power density, H-field and far-field analysis using total field reconstruction.
Compatibility	cDASY6 + 5G-Module SW1.0 and higher



5.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



5.4 Scan configuration

Fine-resolution scans on 2 different planes are performed to reconstruct the E- and H-fields as well as the power density; the z-distance between the 2 planes is set to $\lambda/4$.

The (x, y) grid step is also set $\lambda/4$, the grid extent is set to sufficiently large to identify the field pattern and the peak.

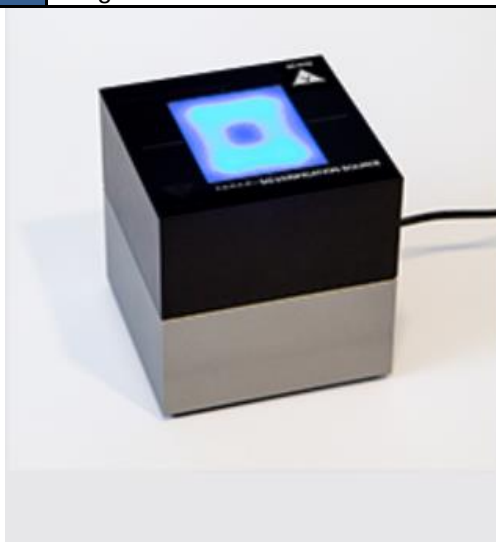
6. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	5G Verification Source	30GHz	1007	Nov. 16, 2023	Nov. 15, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9441	Nov. 17, 2023	Nov. 16, 2024
SPEAG	Data Acquisition Electronics	DAE4	1694	Nov. 17, 2023	Nov. 16, 2024
TESTO	Hygro meter	608-H1	45256952	Nov. 02, 2023	Nov. 01, 2024
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 10, 2023	Jul. 09, 2024
Custom Microwave	Standard Horn antenna	M15RH	V91113-A	NCR	NCR

7. System Verification Source

The System Verification sources at 30 GHz and above comprise horn-antennas and very stable signal generators.

Model	Ka-band horn antenna
Calibrated frequency:	30 GHz at 10mm from the case surface
Frequency accuracy	± 100 MHz
E-field polarization	linear
Harmonics	-20 dBc
Total radiated power	14 dBm
Power stability	0.05 dB
Power consumption	5 W
Size	100 x 100 x 100 mm
Weight	1 kg



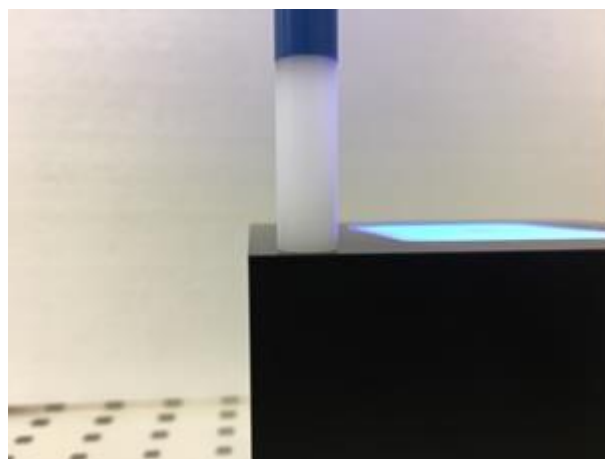
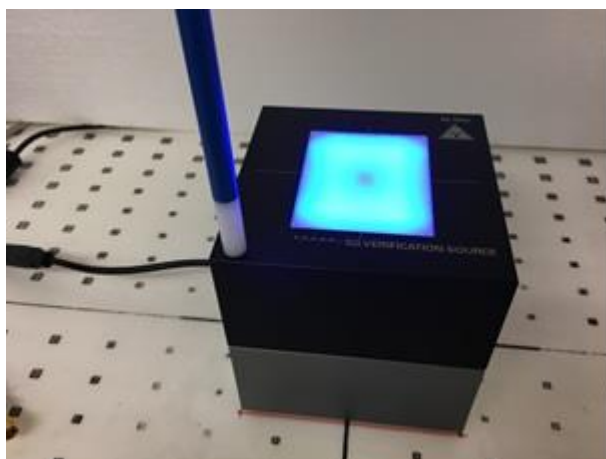
8. Power Density System Verification

The system performance check verifies that the system operates within its specifications.

The EUT is replaced by a calibrated source, the same spatial resolution, measurement region and the test separation used in the calibration was applied to system check. Through visual inspection into the measured power density distribution, both spatially (shape) and numerically (level) have no noticeable difference. The measured results should be within 0.66dB of the calibrated targets.

Frequency [GHz]	Grid step	Grid extent X/Y [mm]	Measurement points
10	0.25 ($\frac{\lambda}{4}$)	120/120	16 × 16
30	0.25 ($\frac{\lambda}{4}$)	60/60	24 × 24
60	0.25 ($\frac{\lambda}{4}$)	32.5/32.5	26 × 26
90	0.25 ($\frac{\lambda}{4}$)	30/30	36 × 36

Settings for measurement of verification sources



Verification Setup photo

9. System Verification Results

Test Site	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR13	30G	30GHz_1007	EUmmWV4-SN9441	DAE4-SN1694	5.5mm	35.7	39.6	-0.45	2024/2/25

Remark:

1. According to 2017 TCB workshop guidance, The mmWave System check is also required before each series of continuous measurement and, as applicable, repeated at least weekly

9.1 Computation of the Electric Field Polarization Ellipse

For the numerical description of an arbitrarily oriented ellipse in three-dimensional space, five parameters are needed: the semi-major axis (a), the semi-minor axis (b), two angles describing the orientation of the normal vector of the ellipse (ϕ , θ), and one angle describing the tilt of the semi-major axis (ψ). For the two extreme cases, i.e., circular and linear polarizations, three parameters only (a , ϕ and θ) are sufficient for the description of the incident field.

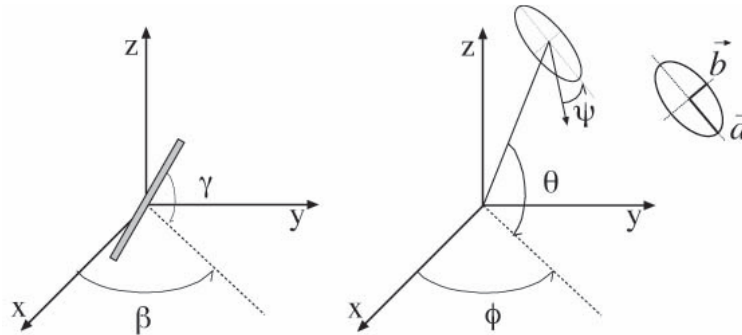


Illustration of the angles used for the numerical description of the sensor and the orientation of an ellipse in 3-D space.

For the reconstruction of the ellipse parameters from measured data, the problem can be reformulated as a nonlinear search problem. The semi-major and semi-minor axes of an elliptical field can be expressed as functions of the three angles (ϕ , θ and ψ). The parameters can be uniquely determined towards minimizing the error based on least-squares for the given set of angles and the measured data. In this way, the number of free parameters is reduced from five to three, which means that at least three sensor readings are necessary to gain sufficient information for the reconstruction of the ellipse parameters. However, to suppress the noise and increase the reconstruction accuracy, it is desirable that the system of equations be over determined. The solution to use a probe consisting of two sensors angled by r_1 and r_2 toward the probe axis and to perform measurements at three angular positions of the probe, i.e., at β_1 , β_2 and β_3 , results in over-determinations by a factor of two. If there is a need for more information or increased accuracy, more rotation angles can be added. The reconstruction of the ellipse parameters can be separated into linear and non-linear parts that are best solved by the Givens algorithm combined with a downhill simplex algorithm. To minimize the mutual coupling, sensor angles are set with a shift of 90 degree ($r_2 = r_1 + 90$ degree), and to simplify, the first rotation angle of the probe (β_1) can be set to 0 degree.

9.2 Total Field and Power Flux Density Reconstruction

Computation of the power density in general requires knowledge of the electric and magnetic field amplitudes and phases in the plane of incidence. Reconstruction of these quantities from pseudo-vector E-field measurements is feasible, as they are constrained by Maxwell's equations. SPEAG have developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-field polarization ellipse information obtained with the EUmmWV2 probe.

The average of the reconstructed power density is evaluated over a circular area in each measurement plane. Two average power density values can be computed, the average total power density and the average incident power density, and the average total power density is used to determine compliance.

- $|Re\{S\}|$ is the total Poynting vector
- $n \cdot Re\{S\}$ is the normal Poynting vector

The software post-processing reports to values, "S avg tot" and "S avg inc". "S avg tot" represents average total power density (all three xyz components included), and "S avg inc" represents average normal power density. The average total power density "S avg tot" is reported to determine the device compliance.

9.3 Test Positions

Band	Antenna Module	Measurement Plane					
		S1 (Front)	S2 (Back)	S3 (Right)	S4 (Left)	S5 (Top)	S6 (Bottom)
5G NR Band 258/260/261	Plane A sub-module	V	V	X	V	V	X
	Plane B sub-module	V	V	X	V	V	X

From the Part 0 and simulation report, beam IDs with highest PD and corresponding Plimit were selected to be tested for each antenna module and for each frequency band.

10. RF Exposure Evaluation Results

- The PD test was performed of a 2mm separation between sensor and EUT surface (the probe tip is 0.5mm to the EUT surface).
- According to TCBC Workshop in October 2018, 4 cm² averaging area are used.
- This device is enabled with Samsung S.LSI TAS feature, S.LSI TAS will manage and ensure LTE and 5G simultaneous transmission is compliant. The validation of the time-averaging algorithm and compliance under the Tx varying transmission scenario for WWAN technologies are reported in Part 2 report.
- Pimit parameter for 5G mmW NR radio was calculated in RF Exposure Part 0 test report.
- TAS algorithm makes use of the target power per slot in determining consumed SAR. The EIRP control can maintain the required amount of power for either CW tone or actual waveform to ensure the accuracy of actual transmit power. Plimit derived from CW tone signals can be confirmed to apply irrespective of the waveform, therefore the device was configured to transmit CW wave signal for testing.
- Run PD test, from the beam ID with the highest simulated for selected side at middle channel
 - Horizontal polarization (H-only), CW tone signal.
 - Vertical polarization (V-only), CW tone signal.
 - Horizontal + Vertical polarization (H+V) , CW tone signal
 - If step b to c result > 50% limit, then repeat for 2nd highest beam ID. If 2nd beam ID result is also > 50% limit, then repeat for 3rd beam ID
 - For Maximum among 2)–3), test low and high channel
 - For Maximum among 2)–4), test other sides, which is within 2.5 cm from the mmwave antenna module
 - Apply the ratio from simulation to scale PD values@2 mm separation distance to PD values@10 mm separation distance.
- Repeat steps a)-f) for the rest of the bands and plane
- It's illustrated in Part 0 report that, for 5G mmW NR since there is total design-related uncertainty arising from TxAGC and device-to-device variation, the worst-case RF exposure should be determined by accounting for this device uncertainty of 2.3 dB, as well as PD design target of 4.42 W/m². Therefore, 5G mmW NR RF exposure for this DUT is evaluated by reported PD calculated as:

$$\text{Reported PD} = \text{PD design target} + 2.3 \text{ dB} = 7.5 \text{ W/m}^2 = 0.75 \text{ mW/cm}^2$$

Test Number	Antenna Module	Beam ID 1	Beam ID 2	Band	Frequency (GHz)	Exposure Surface	Input Power limit	Test Separation (mm)	Modulation	Epeak (V/m)	Hpeak (A/m)	Measured results Savg inc 4cm^2 (W/m2)	Measured results Savg tot 4cm^2 (W/m2)
01	Plane A sub-module	4	-	n258	24.75	Top (S5)	11.30	2mm	CW	70.5	0.205	1.46	1.79
	Plane A sub-module	-	1	n258	24.75	Top (S5)	11.30	2mm	CW	76.3	0.203	1.86	2.55
	Plane A sub-module	3	3	n258	24.75	Top (S5)	11.30	2mm	CW	79.1	0.261	3.12	3.76
	Plane A sub-module	4	4	n258	24.25	Top (S5)	11.30	2mm	CW	83.4	0.193	2.52	3.13
	Plane A sub-module	6	6	n258	25.25	Top (S5)	11.30	2mm	CW	94.7	0.235	1.95	2.71
	Plane A sub-module	3	3	n258	24.75	Front (S1)	11.30	2mm	CW	25.8	0.066	0.603	0.693
	Plane A sub-module	1	1	n258	24.75	Back (S2)	11.30	2mm	CW	25.5	0.065	0.717	0.802
	Plane A sub-module	6	6	n258	24.75	Left (S3)	11.30	2mm	CW	18.1	0.054	0.545	0.583
	Plane B sub-module	5	-	n258	24.75	Back (S2)	8.27	2mm	CW	38.1	0.110	0.879	1.04
	Plane B sub-module	-	1	n258	24.75	Back (S2)	8.27	2mm	CW	29.5	0.074	0.647	0.706
	Plane B sub-module	5	5	n258	24.75	Back (S2)	8.27	2mm	CW	47.1	0.099	1.17	1.40
	Plane B sub-module	5	5	n258	24.25	Back (S2)	8.27	2mm	CW	47.9	0.130	1.29	1.54
	Plane B sub-module	4	4	n258	25.25	Back (S2)	8.27	2mm	CW	50.1	0.141	1.28	1.41
	Plane B sub-module	2	2	n258	24.25	Front (S1)	8.27	2mm	CW	8	0.030	0.056	0.065
	Plane B sub-module	6	6	n258	24.25	Left (S3)	8.27	2mm	CW	18.9	0.053	0.538	0.666
	Plane B sub-module	4	4	n258	24.25	Top (S5)	8.27	2mm	CW	23.7	0.056	0.432	0.579
02	Plane A sub-module	0	-	n260	38.5	Top (S5)	9.36	2mm	CW	69.5	0.185	1.23	1.53
	Plane A sub-module	-	2	n260	38.5	Top (S5)	9.36	2mm	CW	55.4	0.147	1.13	1.32
	Plane A sub-module	1	1	n260	38.5	Top (S5)	9.36	2mm	CW	105	0.257	2.87	3.51
	Plane A sub-module	2	2	n260	37	Top (S5)	9.36	2mm	CW	79.1	0.201	2.10	2.63
	Plane A sub-module	2	2	n260	40	Top (S5)	9.36	2mm	CW	110	0.257	3.54	4.17
	Plane A sub-module	2	2	n260	40	Front (S1)	9.36	2mm	CW	45.4	0.108	1.31	1.75
	Plane A sub-module	1	1	n260	40	Back (S2)	9.36	2mm	CW	37	0.095	0.87	1.04
	Plane A sub-module	6	6	n260	40	Left (S3)	9.36	2mm	CW	18.7	0.046	0.593	0.638
	Plane B sub-module	2	-	n260	38.5	Back (S2)	8.63	2mm	CW	42.6	0.109	1.34	1.45
	Plane B sub-module	-	4	n260	38.5	Back (S2)	8.63	2mm	CW	44.8	0.122	1.20	1.31
	Plane B sub-module	3	3	n260	38.5	Back (S2)	8.63	2mm	CW	66.8	0.158	2.81	3.18
	Plane B sub-module	3	3	n260	37	Back (S2)	8.63	2mm	CW	46.7	0.123	1.51	1.66
	Plane B sub-module	5	5	n260	40	Back (S2)	8.63	2mm	CW	68.7	0.183	2.33	2.73
	Plane B sub-module	6	6	n260	38.5	Front (S1)	8.63	2mm	CW	8.92	0.032	0.082	0.090
	Plane B sub-module	6	6	n260	38.5	Left (S3)	8.63	2mm	CW	18.6	0.046	0.425	0.486
	Plane B sub-module	1	1	n260	38.5	Top (S5)	8.63	2mm	CW	23.8	0.057	0.504	0.646
03	Plane A sub-module	1	-	n261	27.925	Top (S5)	12.56	2mm	CW	55.4	0.098	0.572	0.712
	Plane A sub-module	-	2	n261	27.925	Top (S5)	12.56	2mm	CW	68.5	0.153	1.60	1.97
	Plane A sub-module	0	0	n261	27.925	Top (S5)	12.56	2mm	CW	83.5	0.205	2.48	2.93
	Plane A sub-module	2	2	n261	27.5	Top (S5)	12.56	2mm	CW	71.3	0.209	1.83	2.13
	Plane A sub-module	0	0	n261	28.35	Top (S5)	12.56	2mm	CW	82.4	0.216	1.84	2.40
	Plane A sub-module	0	0	n261	27.925	Front (S1)	12.56	2mm	CW	30	0.090	0.597	0.716
	Plane A sub-module	3	3	n261	27.925	Back (S2)	12.56	2mm	CW	24.1	0.058	0.453	0.623
	Plane A sub-module	6	6	n261	27.925	Left (S3)	12.56	2mm	CW	11.8	0.033	0.207	0.218
	Plane B sub-module	4	-	n261	27.925	Back (S2)	10.42	2mm	CW	24	0.072	0.458	0.559
	Plane B sub-module	-	2	n261	27.925	Back (S2)	10.42	2mm	CW	32.1	0.094	0.741	0.860
	Plane B sub-module	2	2	n261	27.925	Back (S2)	10.42	2mm	CW	38.5	0.104	0.994	1.10
	Plane B sub-module	2	2	n261	27.50	Back (S2)	10.42	2mm	CW	43.7	0.109	1.34	1.46
	Plane B sub-module	1	1	n261	28.35	Back (S2)	10.42	2mm	CW	35.1	0.091	0.886	1.09
	Plane B sub-module	1	1	n261	27.50	Front (S1)	10.42	2mm	CW	8.4	0.030	0.097	0.105
	Plane B sub-module	6	6	n261	27.50	Left (S3)	10.42	2mm	CW	15	0.040	0.304	0.343
	Plane B sub-module	4	4	n261	27.50	Top (S5)	10.42	2mm	CW	28.3	0.070	0.537	0.701

11. 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR FR2 and LTE/FR1 transmission are managed and controlled by Samsung S.LSI TAS feature, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

TAS managed and controlled for Multi-RATs (5G NR + LTE)

The power ratio factors are g_1 and g_2 for LTE/FR1 and FR2 respectively. The main purpose of these power ratio factors is to split the available SAR budget among different RATs, so $g_1 + g_2 \leq 1$. The value of g_1 is computed based on the need of the LTE/FR1 anchor and can be changed if the anchor changes its power request. Based on the SAR Budget portion allocated to the anchor, the value of g_2 will be computed. At steady state (where all RATs are being on for a while), the allocated power ratio factors will guarantee that the total exposure ratio never exceeds the highest exposure of either one.

The reported time-averaged PD is applicable for the worst-surface of the device, and for other surfaces the reported PD is determined as below

1. Calculate ratio of simulated PD for desired surface to simulated PD of worst surface for a given beam
 2. Repeat 1 to obtain ratios for all supported beams, and determine maximum ratio
 3. Repeat 1~2 to obtain the corresponding worst-case PD for other surfaces which are needed for TER analysis.
- *For body-worn and hotspot scenario, if SAR was measured at 15mm and 10mm, respectively, then the worst-case PD at 15mm and 10mm separation distance should be determined per surface as*
 - $15\text{mm_worst-case_PD} = \text{PD_ratio_15mm_to_2mm} * \text{reported time-averaged PD}$
 - $10\text{mm_worst-case_PD} = \text{PD_ratio_10mm_to_2mm} * \text{reported time-averaged PD}$

12. Standalone and Simultaneous-Tx combination

Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT Power Index
Head	WWAN standalone	WWAN	Index 2		
	WiFi standalone	WiFi 2.4G SISO (Ant4 or Ant3)		Index 1	
		WiFi 2.4G MIMO/CDD (Ant4+3)			
		WiFi 5G MIMO (Ant4+3)		Index 2 (RSDB)	
		WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant3) + WiFi 5G SISO (Ant4)			
		WiFi 2.4G SISO (Ant3) + WiFi 6E SISO (Ant4)			
	BT/Thread standalone	Bluetooth (Ant4)			Index 1
		Bluetooth (Ant3) / Thread (Ant 3)			
	WiFi +BT/Thread	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)		Index 1	Index 1
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
		WiFi 5G SISO (Ant 4) + Bluetooth (Ant 4)			
		WiFi 5G SISO (Ant 4) + Bluetooth (Ant 3) / Thread (Ant 3)			
		WiFi 6E SISO (Ant4) + Bluetooth (Ant4)			
		WiFi 6E SISO (Ant4) + Bluetooth (Ant3) / Thread (Ant 3)			
	WWAN + WiFi	WWAN + WiFi 2.4G SISO (Ant4 or Ant3)		Index 3	
		WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)			
		WWAN + WiFi 5G MIMO (Ant4+3)		Index 4 (RSDB)	
		WWAN + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant3) + WiFi 5G SISO(Ant4)			
		WWAN + WiFi 2.4G SISO (Ant3) + WiFi 6E SISO(Ant4)			
	WWAN + BT/Thread	WWAN + Bluetooth (Ant4)	Index 3		Index 1
		WWAN + Bluetooth (Ant3) / Thread (Ant 3)			
	WWAN + WiFi +BT/Thread	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)		Index 3	Index 1
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)					
WWAN + WiFi 5G SISO (Ant 4) + Bluetooth (Ant 4)					
WWAN + WiFi 5G SISO (Ant 4) + Bluetooth (Ant 3) / Thread (Ant 3)					
WWAN + WiFi 6E SISO (Ant4) + Bluetooth (Ant4)					
WWAN + WiFi 6E SISO (Ant4) + Bluetooth (Ant3) / Thread (Ant 3)					

Exposure Condition	Tx mode	Capable TX Configurations	WWAN Power Index	WiFi Power Index	BT Power Index
Body	WWAN standalone	WWAN	Index 5		
	WiFi standalone	WiFi 2.4G SISO (Ant4 or Ant3)		Index 5	
		WiFi 2.4G MIMO/CDD (Ant4+3)			
		WiFi 5G MIMO (Ant4+3)			
		WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G SISO (Ant3) + WiFi 5G SISO (Ant4)		Index 6 (RSDB)	
		WiFi 2.4G SISO (Ant3) + WiFi 6E SISO (Ant4)			
	BT/Thread standalone	Bluetooth (Ant4)			Index 2
		Bluetooth (Ant3) / Thread (Ant 3)			
	WiFi +BT/Thread	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)		Index 5	Index 3
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
		WiFi 5G SISO (Ant 4) + Bluetooth (Ant 4)			
		WiFi 5G SISO (Ant 4) + Bluetooth (Ant 3) / Thread (Ant 3)			
		WiFi 6E SISO (Ant4) + Bluetooth (Ant4)			
		WiFi 6E SISO (Ant4) + Bluetooth (Ant3) / Thread (Ant 3)			
	WWAN + WiFi	WWAN + WiFi 2.4G SISO (Ant4 or Ant3)	Index 6 / Index 4 (Hotspot)	Index 7	
		WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)			
		WWAN + WiFi 5G MIMO (Ant4+3)		Index 8 (RSDB)	
		WWAN + WiFi 6E MIMO (Ant4+3)			
		WWAN + WiFi 2.4G SISO (Ant3) + WiFi 5G SISO(Ant4)			
		WWAN + WiFi 2.4G SISO (Ant3) + WiFi 6E SISO(Ant4)			
	WWAN + BT/Thread	WWAN + Bluetooth (Ant4)	Index 6 / Index 4 (Hotspot)		Index 3
		WWAN + Bluetooth (Ant3) / Thread (Ant 3)			
	WWAN + WiFi +BT/Thread	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)	Index 6 / Index 4 (Hotspot)	Index 9	Index 4
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)			
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)					
WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3) / Thread (Ant 3)					
WWAN + WiFi 5G SISO (Ant 4) + Bluetooth (Ant 4)					
WWAN + WiFi 5G SISO (Ant 4) + Bluetooth (Ant 3) / Thread (Ant 3)					
WWAN + WiFi 6E SISO (Ant4) + Bluetooth (Ant4)					
WWAN + WiFi 6E SISO (Ant4) + Bluetooth (Ant3) / Thread (Ant 3)					

General Note:

- The FR2 plimit is fixed regardless of use cases.
- The WLAN and Bluetooth SAR test results referenced from the Part1 SAR Report No. FA3N2325D and using for Sim-Tx analysis with FR2.
- The Sim-Tx configuration combination include in operation description will be match the title in the below Sum-Tx evaluation table
- For LTE+5GNR+WiFi+BT, due to the TAS control, simultaneous transmission compliance can be assessed on LTE+WiFi/BT and 5GNR +WiFi/BT, and the validation of the time-averaging algorithm and compliance under the Tx varying transmission scenario for WWAN technologies are reported in Part 2 report. For 5GNR FR2 with WiFi, total exposure ratio is calculated as below formula, LTE/FR1 + WIFI simultaneous transmission analysis referring from the report of FCC ID: A4RGR83Y (Sporton SAR Report No. FA3N2325D).

The $\left[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration adjusted for maximum tune-up tolerance) / 1.6 W/kg} \right] + \left[\sum \text{ of MPE ratios} \right] \leq 1.0$.

12.1 Simultaneous transmission analysis for WiFi/BT + 5G NR

*Ratio is highest ratio of (PD on desired exposure plane) / (PD on worst-surface) out of all beams and out of all channels illustrated in Power Density Simulation Report.

NR Band	Antenna Module	Exposure condition	Surface	Evaluation Distance (mm)	Ratio*	PD_Design Target +Total uncertainty (W/m ²)	PD_Design Target +Total uncertainty)*Ratio (W/m ²)
n258	Plane A sub-module	Head	Front Surface	2 mm	0.480	7.50	3.60
n258	Plane B sub-module		Front Surface	2 mm	0.067	7.50	0.50
n260	Plane A sub-module		Front Surface	2 mm	0.604	7.50	4.53
n260	Plane B sub-module		Front Surface	2 mm	0.022	7.50	0.17
n261	Plane A sub-module		Front Surface	2 mm	0.474	7.50	3.56
n261	Plane B sub-module		Front Surface	2 mm	0.025	7.50	0.19

NR Band	Antenna Module	Exposure condition	Surface	Evaluation Distance (mm)	Ratio*	PD_Design Target +Total uncertainty (W/m ²)	PD_Design Target +Total uncertainty)*Ratio (W/m ²)
				(mm)			
n258	Plane A sub-module	Body Worn/Hotspot	worst-surface	10 mm	0.608	7.50	4.56
n258	Plane B sub-module		worst-surface	10 mm	0.394	7.50	2.96
n260	Plane A sub-module		worst-surface	10 mm	0.549	7.50	4.12
n260	Plane B sub-module		worst-surface	10 mm	0.347	7.50	2.60
n261	Plane A sub-module		worst-surface	10 mm	0.474	7.50	3.55
n261	Plane B sub-module		worst-surface	10 mm	0.326	7.50	2.44

NR Band	Antenna Module	Exposure condition	Surface	Evaluation Distance (mm)	Ratio*	PD_Design Target +Total uncertainty (W/m^2)	PD_Design Target +Total uncertainty)*Ratio (W/m^2)
n258	Plane A sub-module	Extremity	Front Surface	2 mm	0.480	7.50	3.60
			Back Surface	2 mm	0.568	7.50	4.26
			Left side	2 mm	0.175	7.50	1.31
			Right side	2 mm	Excluded		
			Top side	2 mm	1.000	7.50	7.50
			Bottom side	2 mm	Excluded		
n258	Plane B sub-module		Front Surface	2 mm	0.067	7.50	0.50
			Back Surface	2 mm	1.000	7.50	7.50
			Left side	2 mm	0.141	7.50	1.06
			Right side	2 mm	Excluded		
			Top side	2 mm	0.362	7.50	2.72
			Bottom side	2 mm	Excluded		
n260	Plane A sub-module		Front Surface	2 mm	0.604	7.50	4.53
			Back Surface	2 mm	0.507	7.50	3.81
			Left side	2 mm	0.129	7.50	0.97
			Right side	2 mm	Excluded		
			Top side	2 mm	1.000	7.50	7.50
			Bottom side	2 mm	Excluded		
n260	Plane B sub-module		Front Surface	2 mm	0.022	7.50	0.17
			Back Surface	2 mm	1.000	7.50	7.50
			Left side	2 mm	0.116	7.50	0.87
			Right side	2 mm	Excluded		
			Top side	2 mm	0.201	7.50	1.50
			Bottom side	2 mm	Excluded		
n261	Plane A sub-module		Front Surface	2 mm	0.474	7.50	3.56
			Back Surface	2 mm	0.525	7.50	3.94
			Left side	2 mm	0.125	7.50	0.94
			Right side	2 mm	Excluded		
			Top side	2 mm	1.00	7.50	7.50
			Bottom side	2 mm	Excluded		
n261	Plane B sub-module		Front Surface	2 mm	0.025	7.50	0.19
			Back Surface	2 mm	1.000	7.50	7.50
			Left side	2 mm	0.142	7.50	1.06
			Right side	2 mm	Excluded		
			Top side	2 mm	0.280	7.50	2.10
			Bottom side	2 mm	Excluded		



<Head Exposure Condition>

<5G NR FR2, WLAN Index 3, BT Index 1>

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	7	8	9	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio						
			WLAN 2.4GHz Ant 3	WLAN 2.4GHz Ant 4	WLAN 2.4GHz Ant 3+4	WLAN 5G/6GHz Ant 3+4	Bluetooth / Thread Ant 3	Bluetooth Ant 4	Bluetooth Ant 3+4	PD	2+9 Summed	3+9 Summed	4+9 Summed	5+9 Summed	5+6+9 Summed	5+7+9 Summed	5+8+9 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)							
n258	Plane A sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	3.60	0.563	0.484	0.599	0.510	0.615	0.548	0.629
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	3.60	0.401	0.405	0.472	0.473	0.497	0.503	0.516
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	3.60	0.501	0.538	0.577	0.493	0.544	0.612	0.570
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	3.60	0.387	0.471	0.471	0.450	0.462	0.513	0.514
n258	Plane B sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	0.50	0.254	0.175	0.290	0.201	0.305	0.239	0.319
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	0.50	0.092	0.095	0.162	0.164	0.187	0.194	0.206
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	0.50	0.192	0.229	0.268	0.184	0.235	0.302	0.260
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	0.50	0.078	0.162	0.162	0.141	0.153	0.204	0.204
n260	Plane A sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	4.53	0.657	0.578	0.693	0.604	0.708	0.642	0.722
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	4.53	0.494	0.498	0.565	0.567	0.590	0.596	0.609
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	4.53	0.594	0.632	0.671	0.586	0.638	0.705	0.663
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	4.53	0.481	0.564	0.564	0.544	0.556	0.606	0.607
n260	Plane B sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	0.17	0.220	0.141	0.256	0.167	0.272	0.205	0.286
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	0.17	0.058	0.062	0.129	0.130	0.154	0.160	0.173
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	0.17	0.158	0.195	0.234	0.150	0.201	0.269	0.227
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	0.17	0.044	0.128	0.128	0.107	0.119	0.170	0.171
n261	Plane A sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	3.56	0.560	0.480	0.595	0.506	0.611	0.545	0.625
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	3.56	0.397	0.401	0.468	0.470	0.493	0.499	0.512
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	3.56	0.497	0.535	0.573	0.489	0.540	0.608	0.566
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	3.56	0.383	0.467	0.467	0.446	0.458	0.509	0.510
n261	Plane B sub-module	Right Cheek	0.326	0.199	0.383	0.241	0.167	0.061	0.189	0.19	0.223	0.143	0.258	0.169	0.274	0.208	0.288
		Right Tilted	0.066	0.072	0.179	0.182	0.037	0.047	0.067	0.19	0.060	0.064	0.131	0.133	0.156	0.162	0.175
		Left Cheek	0.226	0.286	0.348	0.213	0.082	0.190	0.123	0.19	0.160	0.198	0.236	0.152	0.203	0.271	0.229
		Left Tilted	0.044	0.178	0.178	0.145	0.019	0.100	0.101	0.19	0.046	0.130	0.130	0.109	0.121	0.172	0.173

**<5G NR FR2, WLAN Index 4>**

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio		
			WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4	WLAN2.4GHz Ant 3+4	WLAN5G/6GHz Ant 3+4	PD	2+5+6 Summed	3+5+6 Summed	4+5+6 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)			
n258	Plane A sub-module	Right Cheek	0.205	0.126	0.225	0.241	3.60	0.638	0.589	0.651
		Right Tilted	0.041	0.045	0.105	0.182	3.60	0.499	0.502	0.539
		Left Cheek	0.142	0.180	0.205	0.213	3.60	0.582	0.605	0.621
		Left Tilted	0.028	0.112	0.112	0.145	3.60	0.468	0.520	0.520
n258	Plane B sub-module	Right Cheek	0.205	0.126	0.225	0.241	0.50	0.329	0.280	0.342
		Right Tilted	0.041	0.045	0.105	0.182	0.50	0.190	0.192	0.230
		Left Cheek	0.142	0.180	0.205	0.213	0.50	0.272	0.296	0.312
		Left Tilted	0.028	0.112	0.112	0.145	0.50	0.159	0.211	0.211
n260	Plane A sub-module	Right Cheek	0.205	0.126	0.225	0.241	4.53	0.732	0.683	0.744
		Right Tilted	0.041	0.045	0.105	0.182	4.53	0.593	0.595	0.633
		Left Cheek	0.142	0.180	0.205	0.213	4.53	0.675	0.699	0.714
		Left Tilted	0.028	0.112	0.112	0.145	4.53	0.561	0.614	0.614
n260	Plane B sub-module	Right Cheek	0.205	0.126	0.225	0.241	0.17	0.295	0.246	0.308
		Right Tilted	0.041	0.045	0.105	0.182	0.17	0.156	0.159	0.196
		Left Cheek	0.142	0.180	0.205	0.213	0.17	0.239	0.262	0.278
		Left Tilted	0.028	0.112	0.112	0.145	0.17	0.125	0.177	0.177
n261	Plane A sub-module	Right Cheek	0.205	0.126	0.225	0.241	3.56	0.635	0.585	0.647
		Right Tilted	0.041	0.045	0.105	0.182	3.56	0.495	0.498	0.535
		Left Cheek	0.142	0.180	0.205	0.213	3.56	0.578	0.601	0.617
		Left Tilted	0.028	0.112	0.112	0.145	3.56	0.464	0.516	0.516
n261	Plane B sub-module	Right Cheek	0.205	0.126	0.225	0.241	0.19	0.298	0.248	0.310
		Right Tilted	0.041	0.045	0.105	0.182	0.19	0.158	0.161	0.198
		Left Cheek	0.142	0.180	0.205	0.213	0.19	0.241	0.264	0.280
		Left Tilted	0.028	0.112	0.112	0.145	0.19	0.127	0.179	0.179

<Hotspot Exposure Condition>
<5G NR FR2, WLAN index 7>

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio			
			WLAN 2.4GHz Ant 3	WLAN 2.4GHz Ant 4	WLAN 2.4GHz Ant 3+4	WLAN 5G/6GHz Ant 3+4	PD	2+6 Summed	3+6 Summed	4+6 Summed	5+6 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)				
n258	Plane A sub-module	Front	0.260	0.168	0.278	0.239	4.56	0.619	0.561	0.630	0.606
		Back	0.351	0.270	0.362	0.392	4.56	0.676	0.625	0.683	0.701
		Left side	0.423	0.001	0.448	0.463	4.56	0.721	0.457	0.736	0.746
		Right side	0.009	0.320	0.372	0.091	4.56	0.462	0.656	0.689	0.513
		Top side	0.035	0.053	0.113	0.161	4.56	0.478	0.489	0.527	0.557
		Bottom side					4.56	0.456	0.456	0.456	0.456
n258	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.96	0.458	0.401	0.470	0.445
		Back	0.351	0.270	0.362	0.392	2.96	0.515	0.465	0.522	0.541
		Left side	0.423	0.001	0.448	0.463	2.96	0.560	0.296	0.576	0.585
		Right side	0.009	0.320	0.372	0.091	2.96	0.301	0.496	0.528	0.353
		Top side	0.035	0.053	0.113	0.161	2.96	0.318	0.329	0.366	0.396
		Bottom side					2.96	0.296	0.296	0.296	0.296
n260	Plane A sub-module	Front	0.260	0.168	0.278	0.239	4.12	0.575	0.517	0.586	0.561
		Back	0.351	0.270	0.362	0.392	4.12	0.631	0.581	0.638	0.657
		Left side	0.423	0.001	0.448	0.463	4.12	0.676	0.413	0.692	0.701
		Right side	0.009	0.320	0.372	0.091	4.12	0.418	0.612	0.645	0.469
		Top side	0.035	0.053	0.113	0.161	4.12	0.434	0.445	0.483	0.513
		Bottom side					4.12	0.412	0.412	0.412	0.412
n260	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.60	0.423	0.365	0.434	0.410
		Back	0.351	0.270	0.362	0.392	2.60	0.480	0.429	0.486	0.505
		Left side	0.423	0.001	0.448	0.463	2.60	0.525	0.261	0.540	0.550
		Right side	0.009	0.320	0.372	0.091	2.60	0.266	0.460	0.493	0.317
		Top side	0.035	0.053	0.113	0.161	2.60	0.282	0.293	0.331	0.361
		Bottom side					2.60	0.260	0.260	0.260	0.260
n261	Plane A sub-module	Front	0.260	0.168	0.278	0.239	3.55	0.518	0.460	0.529	0.505
		Back	0.351	0.270	0.362	0.392	3.55	0.575	0.524	0.582	0.600
		Left side	0.423	0.001	0.448	0.463	3.55	0.620	0.356	0.635	0.645
		Right side	0.009	0.320	0.372	0.091	3.55	0.361	0.555	0.588	0.412
		Top side	0.035	0.053	0.113	0.161	3.55	0.377	0.388	0.426	0.456
		Bottom side					3.55	0.355	0.355	0.355	0.355
n261	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.44	0.407	0.349	0.418	0.394
		Back	0.351	0.270	0.362	0.392	2.44	0.464	0.413	0.471	0.489
		Left side	0.423	0.001	0.448	0.463	2.44	0.509	0.245	0.524	0.534
		Right side	0.009	0.320	0.372	0.091	2.44	0.250	0.444	0.477	0.301
		Top side	0.035	0.053	0.113	0.161	2.44	0.266	0.278	0.315	0.345
		Bottom side					2.44	0.244	0.244	0.244	0.244

<5GNR FR2, WLAN Index 8>

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio		
			WLAN 2.4GHz Ant 3	WLAN 2.4GHz Ant 4	WLAN 2.4GHz Ant 3+4	WLAN 5G/6GHz Ant 3+4	PD	2+5+6 Summed	3+5+6 Summed	4+5+6 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)			
n258	Plane A sub-module	Front	0.138	0.078	0.145	0.168	4.56	0.648	0.610	0.652
		Back	0.180	0.131	0.182	0.130	4.56	0.650	0.619	0.651
		Left side	0.225	0.001	0.215	0.270	4.56	0.766	0.626	0.759
		Right side	0.001	0.149	0.123	0.066	4.56	0.498	0.591	0.574
		Top side	0.001	0.017	0.036	0.075	4.56	0.504	0.514	0.526
		Bottom side					4.56	0.456	0.456	0.456
n258	Plane B sub-module	Front	0.138	0.078	0.145	0.168	2.96	0.487	0.450	0.491
		Back	0.180	0.131	0.182	0.130	2.96	0.490	0.459	0.491
		Left side	0.225	0.001	0.215	0.270	2.96	0.605	0.465	0.599
		Right side	0.001	0.149	0.123	0.066	2.96	0.338	0.430	0.414
		Top side	0.001	0.017	0.036	0.075	2.96	0.343	0.353	0.365
		Bottom side					2.96	0.296	0.296	0.296
n260	Plane A sub-module	Front	0.138	0.078	0.145	0.168	4.12	0.603	0.566	0.608
		Back	0.180	0.131	0.182	0.130	4.12	0.606	0.575	0.607
		Left side	0.225	0.001	0.215	0.270	4.12	0.721	0.581	0.715
		Right side	0.001	0.149	0.123	0.066	4.12	0.454	0.546	0.530
		Top side	0.001	0.017	0.036	0.075	4.12	0.460	0.470	0.481
		Bottom side					4.12	0.412	0.412	0.412
n260	Plane B sub-module	Front	0.138	0.078	0.145	0.168	2.60	0.451	0.414	0.456
		Back	0.180	0.131	0.182	0.130	2.60	0.454	0.423	0.455
		Left side	0.225	0.001	0.215	0.270	2.60	0.570	0.430	0.563
		Right side	0.001	0.149	0.123	0.066	2.60	0.302	0.395	0.378
		Top side	0.001	0.017	0.036	0.075	2.60	0.308	0.318	0.330
		Bottom side					2.60	0.260	0.260	0.260
n261	Plane A sub-module	Front	0.138	0.078	0.145	0.168	3.55	0.547	0.509	0.551
		Back	0.180	0.131	0.182	0.130	3.55	0.549	0.518	0.550
		Left side	0.225	0.001	0.215	0.270	3.55	0.665	0.525	0.658
		Right side	0.001	0.149	0.123	0.066	3.55	0.397	0.490	0.473
		Top side	0.001	0.017	0.036	0.075	3.55	0.403	0.413	0.425
		Bottom side					3.55	0.355	0.355	0.355
n261	Plane B sub-module	Front	0.138	0.078	0.145	0.168	2.44	0.436	0.398	0.440
		Back	0.180	0.131	0.182	0.130	2.44	0.438	0.408	0.439
		Left side	0.225	0.001	0.215	0.270	2.44	0.554	0.414	0.548
		Right side	0.001	0.149	0.123	0.066	2.44	0.286	0.379	0.363
		Top side	0.001	0.017	0.036	0.075	2.44	0.292	0.302	0.314
		Bottom side					2.44	0.244	0.244	0.244

<5GNR FR2, WLAN index 9, Bluetooth index 3,4>

NR Band	Antenna Module	Exposure Position	5	6	7	8	9	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio		
			WLAN 5G/6GHz Ant 3+4 1g SAR (W/kg)	Bluetooth/ Thread Ant 3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3+4 1g SAR (W/kg)	PD 4cm ² (W/m ²)	5+6+9 Summed	5+7+9 Summed	5+8+9 Summed
n258	Plane A sub-module	Front	0.168	0.117	0.065	0.107	4.56	0.634	0.602	0.628
		Back	0.145	0.150	0.095	0.151	4.56	0.641	0.606	0.641
		Left side	0.303	0.175	0.001	0.223	4.56	0.755	0.646	0.785
		Right side	0.066	0.001	0.099	0.087	4.56	0.498	0.559	0.552
		Top side	0.084	0.017	0.019	0.057	4.56	0.519	0.521	0.544
		Bottom side					4.56	0.456	0.456	0.456
n258	Plane B sub-module	Front	0.168	0.117	0.065	0.107	2.96	0.474	0.441	0.468
		Back	0.145	0.150	0.095	0.151	2.96	0.480	0.446	0.481
		Left side	0.303	0.175	0.001	0.223	2.96	0.595	0.486	0.625
		Right side	0.066	0.001	0.099	0.087	2.96	0.338	0.399	0.391
		Top side	0.084	0.017	0.019	0.057	2.96	0.359	0.360	0.384
		Bottom side					2.96	0.296	0.296	0.296
n260	Plane A sub-module	Front	0.168	0.117	0.065	0.107	4.12	0.590	0.558	0.584
		Back	0.145	0.150	0.095	0.151	4.12	0.596	0.562	0.597
		Left side	0.303	0.175	0.001	0.223	4.12	0.711	0.602	0.741
		Right side	0.066	0.001	0.099	0.087	4.12	0.454	0.515	0.508
		Top side	0.084	0.017	0.019	0.057	4.12	0.475	0.476	0.500
		Bottom side					4.12	0.412	0.412	0.412
n260	Plane B sub-module	Front	0.168	0.117	0.065	0.107	2.60	0.438	0.406	0.432
		Back	0.145	0.150	0.095	0.151	2.60	0.445	0.410	0.445
		Left side	0.303	0.175	0.001	0.223	2.60	0.559	0.450	0.589
		Right side	0.066	0.001	0.099	0.087	2.60	0.302	0.363	0.356
		Top side	0.084	0.017	0.019	0.057	2.60	0.323	0.325	0.348
		Bottom side					2.60	0.260	0.260	0.260
n261	Plane A sub-module	Front	0.168	0.117	0.065	0.107	3.55	0.533	0.501	0.527
		Back	0.145	0.150	0.095	0.151	3.55	0.540	0.505	0.540
		Left side	0.303	0.175	0.001	0.223	3.55	0.654	0.545	0.684
		Right side	0.066	0.001	0.099	0.087	3.55	0.397	0.458	0.451
		Top side	0.084	0.017	0.019	0.057	3.55	0.418	0.420	0.443
		Bottom side					3.55	0.355	0.355	0.355
n261	Plane B sub-module	Front	0.168	0.117	0.065	0.107	2.44	0.423	0.390	0.416
		Back	0.145	0.150	0.095	0.151	2.44	0.429	0.394	0.429
		Left side	0.303	0.175	0.001	0.223	2.44	0.543	0.434	0.573
		Right side	0.066	0.001	0.099	0.087	2.44	0.286	0.348	0.340
		Top side	0.084	0.017	0.019	0.057	2.44	0.308	0.309	0.333
		Bottom side					2.44	0.244	0.244	0.244

<Body-Worn Exposure Condition>
<5G NR FR2, WLAN index 7>

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio			
			WLAN 2.4GHz Ant 3	WLAN 2.4GHz Ant 4	WLAN 2.4GHz Ant 3+4	WLAN 5G/6GHz Ant 3+4	PD	2+6 Summed	3+6 Summed	4+6 Summed	5+6 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)				
n258	Plane A sub-module	Front	0.260	0.168	0.278	0.239	4.56	0.619	0.561	0.630	0.606
		Back	0.351	0.270	0.362	0.392	4.56	0.676	0.625	0.683	0.701
n258	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.96	0.458	0.401	0.470	0.445
		Back	0.351	0.270	0.362	0.392	2.96	0.515	0.465	0.522	0.541
n260	Plane A sub-module	Front	0.260	0.168	0.278	0.239	4.12	0.575	0.517	0.586	0.561
		Back	0.351	0.270	0.362	0.392	4.12	0.631	0.581	0.638	0.657
n260	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.60	0.423	0.365	0.434	0.410
		Back	0.351	0.270	0.362	0.392	2.60	0.480	0.429	0.486	0.505
n261	Plane A sub-module	Front	0.260	0.168	0.278	0.239	3.55	0.518	0.460	0.529	0.505
		Back	0.351	0.270	0.362	0.392	3.55	0.575	0.524	0.582	0.600
n261	Plane B sub-module	Front	0.260	0.168	0.278	0.239	2.44	0.407	0.349	0.418	0.394
		Back	0.351	0.270	0.362	0.392	2.44	0.464	0.413	0.471	0.489

<5G NR FR2, WLAN Index 8>

NR Band	Antenna Module	Exposure Position	2	3	4	5	6	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio		
			WLAN2.4GHz Ant 3	WLAN2.4GHz Ant 4	WLAN2.4GHz Ant 3+4	WLAN5G/6GHz Ant 3+4	PD	2+5+6 Summed	3+5+6 Summed	4+5+6 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)			
n258	Plane A sub-module	Front	0.138	0.078	0.145	0.213	4.56	0.676	0.638	0.680
		Back	0.180	0.131	0.182	0.313	4.56	0.764	0.734	0.766
n258	Plane B sub-module	Front	0.138	0.078	0.145	0.213	2.96	0.515	0.478	0.520
		Back	0.180	0.131	0.182	0.313	2.96	0.604	0.573	0.605
n260	Plane A sub-module	Front	0.138	0.078	0.145	0.213	4.12	0.631	0.594	0.636
		Back	0.180	0.131	0.182	0.313	4.12	0.720	0.690	0.721
n260	Plane B sub-module	Front	0.138	0.078	0.145	0.213	2.60	0.480	0.442	0.484
		Back	0.180	0.131	0.182	0.313	2.60	0.568	0.538	0.570
n261	Plane A sub-module	Front	0.138	0.078	0.145	0.213	3.55	0.575	0.537	0.579
		Back	0.180	0.131	0.182	0.313	3.55	0.663	0.633	0.665
n261	Plane B sub-module	Front	0.138	0.078	0.145	0.213	2.44	0.464	0.426	0.468
		Back	0.180	0.131	0.182	0.313	2.44	0.553	0.522	0.554

**<5GNR FR2, WLAN index 9, Bluetooth index 3,4>**

NR Band	Antenna Module	Exposure Position	5	6	7	8	9	Reported SAR/1.6 + PD/10 Summation Total Exposure ratio		
			WLAN 5G/6GHz Ant 3+4	Bluetooth/ Thread Ant 3	Bluetooth Ant 4	Bluetooth Ant 3+4	PD	5+6+9 Summed	5+7+9 Summed	5+8+9 Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	4cm ² (W/m ²)			
n258	Plane A sub-module	Front	0.213	0.117	0.065	0.107	4.56	0.663	0.630	0.656
		Back	0.351	0.150	0.095	0.151	4.56	0.769	0.735	0.770
n258	Plane B sub-module	Front	0.213	0.117	0.065	0.107	2.96	0.502	0.470	0.496
		Back	0.351	0.150	0.095	0.151	2.96	0.609	0.575	0.610
n260	Plane A sub-module	Front	0.213	0.117	0.065	0.107	4.12	0.618	0.586	0.612
		Back	0.351	0.150	0.095	0.151	4.12	0.725	0.691	0.726
n260	Plane B sub-module	Front	0.213	0.117	0.065	0.107	2.60	0.466	0.434	0.460
		Back	0.351	0.150	0.095	0.151	2.60	0.573	0.539	0.574
n261	Plane A sub-module	Front	0.213	0.117	0.065	0.107	3.55	0.562	0.529	0.555
		Back	0.351	0.150	0.095	0.151	3.55	0.668	0.634	0.669
n261	Plane B sub-module	Front	0.213	0.117	0.065	0.107	2.44	0.451	0.418	0.444
		Back	0.351	0.150	0.095	0.151	2.44	0.558	0.523	0.558

<Product Specific Exposure Condition>
General Note:

1. Since the 2.4GHz WLAN and Bluetooth SAR was not perform, due to the Hotspot SAR is less than 1.2W/kg.

<5GNR FR2, WLAN index 7>

NR Band	Antenna Module	Exposure Position	2	3	4	Reported SAR/4 + PD/10 Summation
			WLAN5G/6GHz Ant 3+4	NFC	PD	2+3+4 Summed
			10g SAR (W/kg)	10g SAR (W/kg)	4cm^2(W/m^2)	
n258	Plane A sub-module	Front	0.966	0.001	3.60	0.602
		Back	0.400	0.094	4.26	0.550
		Left side	1.973	0.001	1.31	0.625
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n258	Plane B sub-module	Front	0.966	0.001	0.50	0.292
		Back	0.400	0.094	7.50	0.874
		Left side	1.973	0.001	1.06	0.600
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	2.72	0.461
		Bottom side				0.000
n260	Plane A sub-module	Front	0.966	0.001	4.53	0.695
		Back	0.400	0.094	3.81	0.505
		Left side	1.973	0.001	0.97	0.591
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n260	Plane B sub-module	Front	0.966	0.001	0.17	0.259
		Back	0.400	0.094	7.50	0.874
		Left side	1.973	0.001	0.87	0.581
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	1.50	0.339
		Bottom side				0.000
n261	Plane A sub-module	Front	0.966	0.001	3.56	0.598
		Back	0.400	0.094	3.94	0.518
		Left side	1.973	0.001	0.94	0.588
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n261	Plane B sub-module	Front	0.966	0.001	0.19	0.261
		Back	0.400	0.094	7.50	0.874
		Left side	1.973	0.001	1.06	0.600
		Right side	0.488	0.001		0.122
		Top side	0.754	0.001	2.10	0.399
		Bottom side				0.000

<5G NR FR2, WLAN Index 8>

NR Band	Antenna Module	Exposure Position	2	3	4	Reported SAR/4 + PD/10 Summation
			WLAN5G/6GHz Ant 3+4	NFC	PD	2+3+4 Summed
			10g SAR (W/kg)	10g SAR (W/kg)	4cm ² (W/m ²)	
n258	Plane A sub-module	Front	0.861	0.001	3.60	0.576
		Back	0.245	0.094	4.26	0.511
		Left side	1.973	0.001	1.31	0.625
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	7.50	0.918
		Bottom side				0.000
n258	Plane B sub-module	Front	0.861	0.001	0.50	0.266
		Back	0.245	0.094	7.50	0.835
		Left side	1.973	0.001	1.06	0.600
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	2.72	0.440
		Bottom side				0.000
n260	Plane A sub-module	Front	0.861	0.001	4.53	0.669
		Back	0.245	0.094	3.81	0.466
		Left side	1.973	0.001	0.97	0.591
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	7.50	0.918
		Bottom side				0.000
n260	Plane B sub-module	Front	0.861	0.001	0.17	0.233
		Back	0.245	0.094	7.50	0.835
		Left side	1.973	0.001	0.87	0.581
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	1.50	0.318
		Bottom side				0.000
n261	Plane A sub-module	Front	0.861	0.001	3.56	0.572
		Back	0.245	0.094	3.94	0.479
		Left side	1.973	0.001	0.94	0.588
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	7.50	0.918
		Bottom side				0.000
n261	Plane B sub-module	Front	0.861	0.001	0.19	0.235
		Back	0.245	0.094	7.50	0.835
		Left side	1.973	0.001	1.06	0.600
		Right side	0.393	0.001		0.099
		Top side	0.672	0.001	2.10	0.378
		Bottom side				0.000

<5G NR FR2, WLAN index 9, Bluetooth index 3>

NR Band	Antenna Module	Exposure Position	2	3	4	Reported SAR/4 + PD/10 Summation
			WLAN5G/6GHz Ant 3+4 10g SAR (W/kg)	NFC 10g SAR (W/kg)	PD 4cm ² (W/m ²)	2+3+4 Summed
n258	Plane A sub-module	Front	0.966	0.001	3.60	0.601
		Back	0.275	0.094	4.26	0.518
		Left side	2.508	0.001	1.31	0.758
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n258	Plane B sub-module	Front	0.966	0.001	0.50	0.292
		Back	0.275	0.094	7.50	0.842
		Left side	2.508	0.001	1.06	0.733
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	2.72	0.460
		Bottom side				0.000
n260	Plane A sub-module	Front	0.966	0.001	4.53	0.695
		Back	0.275	0.094	3.81	0.473
		Left side	2.508	0.001	0.97	0.724
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n260	Plane B sub-module	Front	0.966	0.001	0.17	0.258
		Back	0.275	0.094	7.50	0.842
		Left side	2.508	0.001	0.87	0.715
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	1.50	0.339
		Bottom side				0.000
n261	Plane A sub-module	Front	0.966	0.001	3.56	0.598
		Back	0.275	0.094	3.94	0.486
		Left side	2.508	0.001	0.94	0.721
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	7.50	0.939
		Bottom side				0.000
n261	Plane B sub-module	Front	0.966	0.001	0.19	0.261
		Back	0.275	0.094	7.50	0.842
		Left side	2.508	0.001	1.06	0.734
		Right side	0.440	0.001		0.110
		Top side	0.754	0.001	2.10	0.399
		Bottom side				0.000

Test Engineer : Tommy Chen

13. Uncertainty Assessment

The budget is valid for evaluation distances $> \lambda/2\pi$. For specific tests and configurations, the Uncertainty could be considerably smaller.

cDASY6 Module mmWave Uncertainty Budget Evaluation Distances to the Antennas $> \lambda/2\pi$					
Error Description	Uncertainty Value ($\pm$ dB)	Probability	Divisor	(Ci)	Standard Uncertainty ($\pm$ dB)
Uncertainty terms dependent on the measurement system					
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response ($BW \leq 1$ GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependence	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	0.60	R	1.732	1	0.35
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					0.76 dB
Expanded STD Uncertainty (95%)					1.52 dB
Declaration of Conformity: The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.					
Comments and Explanations: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.					



14. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [3] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [4] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.