

FCC SAR TEST REPORT

FCC ID : A4RGUJ0N
Equipment : Phone
Model Name : GUJ0N
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Nov. 25, 2025 and testing was started from Jan. 03, 2026 and completed on Apr. 17, 2026. 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 Part 2.1093 and FCC KDB 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



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History of this test report

[illegible]



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, GUJ0N, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)
		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-Worn (Separation 5mm)	Product Specific (Separation 0mm)	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	10g SAR (W/kg)	
Licensed	GSM850	0.98	0.77	0.99		1.59
	GSM1900	0.54	0.77	0.79		
	WCDMA II	0.63	0.78	0.79		
	WCDMA IV	0.55	0.83	0.80		
	WCDMA V	0.76	0.84	0.92		
	LTE Band 7	0.96	0.75	0.77		
	LTE Band 12/17	0.86	0.74	0.69		
	LTE Band 13	0.99	0.74	0.99		
	LTE Band 14	0.90	0.76	0.84		
	LTE Band 2/25	0.98	0.85	1.00		
	LTE Band 5/26	0.88	0.84	0.97		
	LTE Band 30	0.81	0.85	0.76		
	LTE Band 4/66	0.84	0.83	0.99	1.97	
	LTE Band 71	0.95	0.74	0.70		
	LTE Band 38/41	0.94	0.84	0.88	1.20	
	LTE Band 48	0.99	0.84	0.98		
	FR1 n7	0.86	0.83	0.74		
	FR1 n12	0.87	0.74	0.79		
	FR1 n13	0.99	0.68	0.77		
	FR1 n14	0.91	0.78	0.96	2.03	
	FR1 n2/n25	0.95	0.83	0.98		
	FR1 n5/n26	0.98	0.85	1.00		
	FR1 n30	0.84	0.80	0.74		
	FR1 n66	0.95	0.85	0.98	1.89	
	FR1 n71	0.90	0.66	0.74		
	FR1 n38/n41	0.97	0.84	0.88		
	FR1 n77/n78	0.91	0.71	0.73		
	NTN Band 23				2.46	
	NTN Band 255				2.47	
DTS	2.4GHz WLAN	1.10	0.38	1.12		1.59
NII	5GHz WLAN	1.13	0.48	1.16	1.56	1.59
6CD/6VL	6GHz WLAN	1.12	0.30	0.94	0.84	1.59
DSS	Bluetooth	0.23	0.50	1.18		1.59
DXX	NFC				0.01	
Equipment Class	Frequency Band	Reported IPD (mW/cm ²)				
5GM	6GHz WLAN	0.73				
Date of Testing:		2026/01/03 ~ 2026/04/17				

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Paula Chen



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Applicant Name	Google LLC
Equipment Name	Phone
Model Name	GUJ0N
FCC ID	A4RGUJ0N
S/N	61131FDKY000AC, 61131FDKY0009C, 61131FDKY000DV, 63231FDKY0000G
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 n13 : 777 MHz ~ 787 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 n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz NTN NB IoT B23: 2000 MHz ~ 2020 MHz NTN NB IoT B255: 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 6GHz Band: 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(Rx)

Mode	GSM/GPRS/EGPRS UMTS: RMC/AMR 12.2Kbps, HSDPA, HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM NTN: BPSK, QPSK 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE/CS NFC: ASK WPC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark: - Dynamic antenna tuning mechanism is available at Ant. 0, for its < 1GHz LTE and NR band, and the supplemental antenna tuner test results were included in parent model FCC ID: A4RGPQQ7 Part1 SAR report appendix G, details are illustrated in the operational description. - This device WLAN 2.4GHz / 5.2GHz / 5.8GHz and 6GHz VLP supports Hotspot operation and Bluetooth support tethering applications. - The device implements the power management and power reduction mechanism for SAR compliance at different exposure conditions (head, body, hotspot and product specific), the TAS feature will manage to ensure the power level not exceeding the associated power table. Also device support RTAs antenna group to analysis simultaneous transmission include in parent model FCC ID: A4RGPQQ7 Part1 SAR report appendix F. - The device implements power reduction mechanism for SAR compliance, the power reduction verification results are provided in parent model FCC ID: A4RGPQQ7 Part1 SAR report appendix E. - The device supports uplink MIMO. Since the uplink MIMO antennas operate on different antenna groups, TAS validation is not required. - Power Class 1.5 (PC1.5) supports only uplink MIMO configurations.	

2.2 Maximum Tune-up Limit

General Note:

- In this report, PC3, PC2, and PC1.5 refer to Power Class 3, Power Class 2, and Power Class 1.5, respectively.
- For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
- The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax.
- Thread only transmits using antenna 3, and it cannot operate concurrently with Bluetooth transmission.
- PC1.5 supports only uplink MIMO configurations. In this mode, the target power per transmit chain is set equivalent to the PC2 standalone (SA) power level, such that the total combined output power across all chains achieves the aggregate power level defined for Power Class 1.5 (i.e., PC2 SA level + 3 dB).

Antenna	Support Transmit Band
Ant 0	GSM850/1900, UMTS B2/ B4/ B5, LTE B2/ B4/ B5/ B7/ B12/ B13/ B14/ B17/ B25/ B26/ B30 / B38/ B41 / B66 / B71, FR1 n2/ n5/ n7/ n12/ n13/ n14/ n25/ n26/ n30/ n38/ n41/ n66/ n71
Ant 1	GSM850, UMTS B5, LTE B2/ B4/ B5/ B12/ B13/ B14/ B17/ B25/ B26 / B38/ B41 / B48/ B66 / B71, FR1 n2/ n5/ n12/ n13/ n14/ n25/ n26/ n38/ n41/ n66/ n71/n77/n78
Ant 2	GSM1900, UMTS B2/ B4, LTE B2/ B4/ B7 / B25/ B30/ B38 / B41 / B66, FR1 n2/ n7/ n25/ n30/ n38/ n41/ n66
Ant 5	LTE B2/ B4/ B25/ B38 / B41 / B48/ B66, FR1 n2/ n25/ n38/ n41 / n66/ n77/n78, NTN B23 / B255
Ant 6	LTE B48, FR1 n77/n78
Ant 7	LTE B48, FR1 n77/n78



Wireless technology	Mode	Mode	Antenna	Maximum Power	Maximum Transmit Burst Average Power (dBm)				
					Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
					ECI 2	ECI 3	ECI 6	ECI 4	ECI 5
GSM	B850	1TX	Ant0	33.50	33.50	33.50	31.20	31.20	31.20
GPRS	B850	1TX	Ant0	33.50	33.50	33.50	31.20	31.20	31.20
GPRS	B850	2TX	Ant0	32.30	32.30	31.30	28.20	28.20	28.20
GPRS	B850	3TX	Ant0	31.30	31.10	29.50	26.40	26.40	26.40
GPRS	B850	4TX	Ant0	30.30	29.90	28.30	25.20	25.20	25.20
EGPRS	B850	1TX	Ant0	27.30	27.30	27.30	27.30	27.30	27.30
EGPRS	B850	2TX	Ant0	26.30	26.30	26.30	26.30	26.30	26.30
EGPRS	B850	3TX	Ant0	25.30	25.30	25.30	25.30	25.30	25.30
EGPRS	B850	4TX	Ant0	24.30	24.30	24.30	24.30	24.30	24.30
GSM	B850	1TX	Ant1	33.10	33.10	32.30	33.10	33.10	33.10
GPRS	B850	1TX	Ant1	33.10	33.10	32.30	33.10	33.10	33.10
GPRS	B850	2TX	Ant1	32.30	30.40	29.30	31.00	32.10	31.00
GPRS	B850	3TX	Ant1	31.30	28.60	27.50	29.20	30.30	29.20
GPRS	B850	4TX	Ant1	30.30	27.40	26.30	28.00	29.10	28.00
EGPRS	B850	1TX	Ant1	27.10	27.10	27.10	27.10	27.10	27.10
EGPRS	B850	2TX	Ant1	26.30	26.30	26.30	26.30	26.30	26.30
EGPRS	B850	3TX	Ant1	25.30	25.30	25.30	25.30	25.30	25.30
EGPRS	B850	4TX	Ant1	24.30	24.30	24.30	24.30	24.30	24.30
GSM	B1900	1TX	Ant2	30.50	30.50	30.50	28.50	29.90	28.50
GPRS	B1900	1TX	Ant2	30.50	30.50	30.50	28.50	29.90	28.50
GPRS	B1900	2TX	Ant2	28.90	28.90	28.90	25.50	26.90	25.50
GPRS	B1900	3TX	Ant2	28.40	28.40	28.40	23.70	25.10	23.70
GPRS	B1900	4TX	Ant2	27.40	27.40	27.40	22.50	23.90	22.50
EGPRS	B1900	1TX	Ant2	26.40	26.40	26.40	26.40	26.40	26.40
EGPRS	B1900	2TX	Ant2	25.40	25.40	25.40	25.40	25.40	25.40
EGPRS	B1900	3TX	Ant2	24.40	24.40	24.40	23.70	24.40	23.70
EGPRS	B1900	4TX	Ant2	23.40	23.40	23.40	22.50	23.40	22.50
GSM	B1900	1TX	Ant0	29.60	29.60	29.60	26.10	26.80	26.10
GPRS	B1900	1TX	Ant0	29.60	29.60	29.60	26.10	26.80	26.10
GPRS	B1900	2TX	Ant0	28.20	28.20	28.20	23.10	23.80	23.10
GPRS	B1900	3TX	Ant0	27.70	27.70	27.70	21.30	22.00	21.30
GPRS	B1900	4TX	Ant0	26.70	26.70	26.70	20.10	20.80	20.10
EGPRS	B1900	1TX	Ant0	25.60	25.60	25.60	25.60	25.60	25.60
EGPRS	B1900	2TX	Ant0	24.70	24.70	24.70	23.10	23.80	23.10
EGPRS	B1900	3TX	Ant0	23.70	23.70	23.70	21.30	22.00	21.30
EGPRS	B1900	4TX	Ant0	22.70	22.70	22.70	20.10	20.80	20.10



Wireless technology	Mode	Mode	Antenna	Maximum Power	Maximum Transmit Burst Average Power (dBm)				
					Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
					Standalone ECI 2	Simultaneous ECI 3	Simultaneous ECI 6	Standalone ECI 4	Simultaneous ECI 5
WCDMA	B2	PC3	Ant2	25.00	25.00	25.00	19.70	21.10	19.70
WCDMA	B2	PC3	Ant0	25.00	25.00	25.00	13.90	15.30	13.90
WCDMA	B4	PC3	Ant2	25.00	25.00	25.00	20.30	21.40	20.30
WCDMA	B4	PC3	Ant0	25.00	25.00	25.00	14.60	16.00	14.60
WCDMA	B5	PC3	Ant0	25.20	25.20	25.20	21.90	21.90	21.90
WCDMA	B5	PC3	Ant1	25.20	23.70	23.70	24.10	24.50	24.10
LTE	B2	PC3	Ant2	25.00	25.00	25.00	19.30	20.70	19.30
LTE	B2	PC3	Ant0	25.00	25.00	25.00	14.10	15.50	14.10
LTE	B2	PC3	Ant1	25.00	19.50	18.40	19.60	20.30	19.60
LTE	B2	PC3	Ant5	25.00	18.30	17.10	17.40	18.70	17.40
LTE	B4	PC3	Ant2	25.00	25.00	25.00	20.30	21.60	20.30
LTE	B4	PC3	Ant0	25.00	25.00	25.00	14.70	16.00	14.70
LTE	B4	PC3	Ant1	25.00	18.70	18.00	22.60	23.40	22.60
LTE	B4	PC3	Ant5	24.70	18.60	17.90	17.60	20.40	17.60
LTE	B5 / 5B	PC3	Ant0	25.10	25.10	25.10	21.50	22.20	21.50
LTE	B5 / 5B	PC3	Ant1	25.10	22.30	21.50	23.50	24.20	23.50
LTE	B7 / 7C	PC3	Ant2	25.00	23.80	22.60	16.90	18.30	16.90
LTE	B7 / 7C	PC3	Ant0	25.00	25.00	25.00	15.00	17.30	15.00
LTE	B12	PC3	Ant0	25.10	25.10	25.10	23.30	25.10	23.30
LTE	B12	PC3	Ant1	25.10	23.50	22.80	25.10	25.10	25.10
LTE	B13	PC3	Ant0	25.10	25.10	25.10	21.70	23.40	21.70
LTE	B13	PC3	Ant1	25.10	25.10	23.50	23.50	25.10	23.50
LTE	B14	PC3	Ant0	25.10	25.10	25.10	22.90	23.40	22.90
LTE	B14	PC3	Ant1	25.10	23.30	22.60	22.60	24.40	22.60
LTE	B17	PC3	Ant0	25.10	25.10	25.10	23.30	25.10	23.30
LTE	B17	PC3	Ant1	25.10	23.50	22.80	25.10	25.10	25.10
LTE	B25	PC3	Ant2	25.00	25.00	25.00	19.30	20.70	19.30
LTE	B25	PC3	Ant0	25.00	25.00	25.00	14.10	15.50	14.10
LTE	B25	PC3	Ant1	25.00	19.50	18.40	19.60	20.30	19.60
LTE	B25	PC3	Ant5	25.00	18.30	17.10	17.40	18.70	17.40
LTE	B26	PC3	Ant0	25.10	25.10	25.10	21.50	22.20	21.50
LTE	B26	PC3	Ant1	25.10	22.30	21.50	23.50	24.20	23.50
LTE	B30	PC3	Ant2	24.60	24.60	24.20	17.30	18.70	17.30
LTE	B30	PC3	Ant0	23.90	23.90	23.90	15.60	17.00	15.60
LTE	B38 / 38C	PC3	Ant2	25.00	25.00	24.50	19.20	20.50	19.20
LTE	B38	PC2	Ant2	26.90	26.90	26.10	20.80	22.10	20.80
LTE	B38 / 38C	PC3	Ant0	24.90	24.90	24.90	17.60	20.20	17.60
LTE	B38	PC2	Ant0	26.90	26.90	26.90	19.20	21.80	19.20
LTE	B38 / 38C	PC3	Ant1	25.00	20.10	19.40	20.10	22.50	20.10
LTE	B38	PC2	Ant1	26.90	21.70	21.00	21.70	24.10	21.70
LTE	B38 / 38C	PC3	Ant5	25.00	18.50	17.60	18.40	19.90	18.40
LTE	B38	PC2	Ant5	26.90	20.10	19.20	20.00	21.50	20.00
LTE	B41 / 41C	PC3	Ant2	25.00	25.00	24.50	19.20	20.50	19.20
LTE	B41	PC2	Ant2	26.90	26.90	26.10	20.80	22.10	20.80
LTE	B41 / 41C	PC3	Ant0	24.90	24.90	24.90	17.60	20.20	17.60
LTE	B41	PC2	Ant0	26.90	26.90	26.90	19.20	21.80	19.20
LTE	B41 / 41C	PC3	Ant1	25.00	20.10	19.40	20.10	22.50	20.10
LTE	B41	PC2	Ant1	26.90	21.70	21.00	21.70	24.10	21.70
LTE	B41 / 41C	PC3	Ant5	25.00	18.50	17.60	18.40	19.90	18.40
LTE	B41	PC2	Ant5	26.90	20.10	19.20	20.00	21.50	20.00
LTE	B48	PC3	Ant6	21.30	21.30	21.30	17.80	19.20	17.80
LTE	B48	PC3	Ant7	20.30	20.30	20.30	17.30	18.70	17.30
LTE	B48	PC3	Ant1	21.50	20.00	18.90	18.90	20.80	18.90
LTE	B48	PC3	Ant5	22.80	18.70	17.60	20.90	22.30	20.90
LTE	B66 / 66C / 66B	PC3	Ant2	25.00	25.00	25.00	20.30	21.60	20.30
LTE	B66 / 66C / 66B	PC3	Ant0	25.00	25.00	25.00	14.70	16.00	14.70
LTE	B66 / 66C / 66B	PC3	Ant1	25.00	18.70	18.00	22.60	23.40	22.60
LTE	B66 / 66C / 66B	PC3	Ant5	24.70	18.60	17.90	17.60	20.40	17.60
LTE	B71	PC3	Ant0	25.10	25.10	25.10	23.00	25.10	23.00
LTE	B71	PC3	Ant1	25.10	24.60	23.60	24.10	25.10	24.10



Maximum Transmit Burst Average Power (dBm)									
Wireless technology	Mode	Mode	Antenna	Maximum Power Condition	Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
					ECI 2	ECI 3	ECI 6	ECI 4	ECI 5
NR	n2	PC3	Ant2	25.00	25.00	25.00	20.50	21.40	20.50
NR	n2	PC3	Ant0	25.00	25.00	25.00	15.30	16.40	15.30
NR	n2	PC3	Ant1	25.00	19.40	18.60	20.10	20.80	20.10
NR	n2	PC3	Ant5	25.00	18.40	17.00	17.60	19.00	17.60
NR	n5	PC3	Ant0	25.10	25.10	25.10	22.20	22.30	22.20
NR	n5	PC3	Ant1	25.10	23.20	22.10	24.00	24.70	24.00
NR	n7	PC3	Ant2	25.00	24.10	23.40	17.10	18.50	17.10
NR	n7	PC3	Ant0	25.00	25.00	25.00	16.00	17.40	16.00
NR	n12	PC3	Ant0	25.10	25.10	25.10	24.10	25.10	24.10
NR	n12	PC3	Ant1	25.10	24.60	23.90	25.00	25.10	25.00
NR	n13	PC3	Ant0	25.10	25.10	25.10	21.60	23.10	21.60
NR	n13	PC3	Ant1	25.10	24.90	23.80	23.80	25.10	23.80
NR	n14	PC3	Ant0	25.10	25.10	25.10	22.90	22.90	22.90
NR	n14	PC3	Ant1	25.10	23.00	22.20	22.60	25.00	22.60
NR	n25	PC3	Ant2	25.00	25.00	25.00	20.50	21.40	20.50
NR	n25	PC3	Ant0	25.00	25.00	25.00	15.30	16.40	15.30
NR	n25	PC3	Ant1	25.00	19.40	18.60	20.10	20.80	20.10
NR	n25	PC3	Ant5	25.00	18.40	17.00	17.60	19.00	17.60
NR	n26	PC3	Ant0	25.10	25.10	25.10	22.20	22.30	22.20
NR	n26	PC3	Ant1	25.10	23.20	22.10	24.00	24.70	24.00
NR	n30	PC3	Ant2	24.60	24.60	24.20	17.90	19.30	17.90
NR	n30	PC3	Ant0	24.60	24.60	24.60	15.60	17.00	15.60
NR	n38	PC3	Ant2	25.00	23.80	22.90	17.50	19.00	17.50
NR	n38	PC3	Ant0	24.90	24.90	24.90	15.60	17.00	15.60
NR	n38	PC3	Ant1	25.00	18.00	17.30	17.40	19.70	17.40
NR	n38	PC3	Ant5	25.00	15.70	14.30	15.20	17.30	15.20
NR	n41	PC3	Ant2	25.00	23.80	22.90	17.50	19.00	17.50
NR	n41C / n41B	PC3	Ant2	22.50	22.50	22.50	17.50	19.00	17.50
NR	n41	PC2	Ant2	26.90	26.80	25.90	20.50	22.00	20.50
NR	n41	PC1P5	Ant2	26.90	26.80	25.90	20.50	22.00	20.50
NR	n41	PC3	Ant0	24.90	24.90	24.90	15.60	17.00	15.60
NR	n41C / n41B	PC3	Ant0	22.40	22.40	22.40	15.60	17.00	15.60
NR	n41	PC2	Ant0	26.90	26.90	26.90	18.60	20.00	18.60
NR	n41	PC1P5	Ant0	26.90	26.90	26.90	18.60	20.00	18.60
NR	n41	PC3	Ant1	25.00	18.00	17.30	17.40	19.70	17.40
NR	n41C / n41B	PC3	Ant1	22.50	18.00	17.30	17.40	19.70	17.40
NR	n41	PC2	Ant1	26.90	21.00	20.30	20.40	22.70	20.40
NR	n41	PC1P5	Ant1	26.90	21.00	20.30	20.40	22.70	20.40
NR	n41	PC3	Ant5	25.00	15.70	14.30	15.20	17.30	15.20
NR	n41C / n41B	PC3	Ant5	22.50	15.70	14.30	15.20	17.30	15.20
NR	n41	PC2	Ant5	26.90	18.70	17.30	18.20	20.30	18.20
NR	n41	PC1P5	Ant5	26.90	18.70	17.30	18.20	20.30	18.20
NR	n66	PC3	Ant2	25.00	25.00	25.00	20.50	21.70	20.50
NR	n66	PC3	Ant0	25.00	25.00	25.00	15.20	16.50	15.20
NR	n66	PC3	Ant1	25.00	19.80	19.10	22.70	23.40	22.70
NR	n66	PC3	Ant5	25.00	19.80	18.40	18.30	20.20	18.30
NR	n71	PC3	Ant0	25.10	25.10	25.10	22.90	25.10	22.90
NR	n71	PC3	Ant1	25.10	24.50	23.70	24.80	25.10	24.80
NR	n77	PC3	Ant6	25.10	25.10	25.00	15.70	17.10	15.70
NR	n77C	PC3	Ant6	22.60	22.60	22.60	15.70	17.10	15.70
NR	n77	PC2	Ant6	27.10	27.10	27.10	18.70	20.10	18.70
NR	n77	PC1P5	Ant6	27.10	27.10	27.10	18.70	20.10	18.70
NR	n77	PC3	Ant7	24.60	24.60	23.20	15.10	16.50	15.10
NR	n77C	PC3	Ant7	22.10	22.10	22.10	15.10	16.50	15.10
NR	n77	PC2	Ant7	26.60	26.60	26.20	18.10	19.50	18.10
NR	n77	PC1P5	Ant7	26.60	26.60	26.20	18.10	19.50	18.10
NR	n77	PC3	Ant1	25.00	16.00	15.20	14.40	16.30	14.40
NR	n77C	PC3	Ant1	22.50	16.00	15.20	14.40	16.30	14.40
NR	n77	PC2	Ant1	27.00	19.00	18.20	17.40	19.30	17.40
NR	n77	PC1P5	Ant1	27.00	19.00	18.20	17.40	19.30	17.40
NR	n77	PC3	Ant5	24.60	16.00	14.40	17.70	19.10	17.70
NR	n77C	PC3	Ant5	22.10	16.00	14.40	17.70	19.10	17.70
NR	n77	PC2	Ant5	26.60	19.00	17.40	20.70	22.10	20.70
NR	n77	PC1P5	Ant5	26.60	19.00	17.40	20.70	22.10	20.70
NR	n78	PC3	Ant6	25.10	25.10	25.00	15.70	17.10	15.70
NR	n78	PC2	Ant6	27.10	27.10	27.10	18.70	20.10	18.70
NR	n78	PC1P5	Ant6	27.10	27.10	27.10	18.70	20.10	18.70
NR	n78	PC3	Ant7	24.60	24.60	23.20	15.10	16.50	15.10
NR	n78	PC2	Ant7	26.60	26.60	26.20	18.10	19.50	18.10



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NR	n78	PC1P5	Ant7	26.60	26.60	26.20	18.10	19.50	18.10
NR	n78	PC3	Ant1	25.00	16.00	15.20	14.40	16.30	14.40
NR	n78	PC2	Ant1	27.00	19.00	18.20	17.40	19.30	17.40
NR	n78	PC1P5	Ant1	27.00	19.00	18.20	17.40	19.30	17.40
NR	n78	PC3	Ant5	24.20	16.00	14.40	17.70	19.10	17.70
NR	n78	PC2	Ant5	26.20	19.00	17.40	20.70	22.10	20.70
NR	n78	PC1P5	Ant5	26.20	19.00	17.40	20.70	22.10	20.70
NTN	B23	PC3	Ant5	24.60				20.60	
NTN	B255	PC3	Ant5	24.60				21.20	

< WLAN Maximum Power >
General Note:

1. The device implements power management mechanisms to ensure WLAN SAR compliance under various exposure conditions and user scenarios. For each exposure condition, the transmit power index is selected based on the specific user scenario. Detailed information regarding the proprietary power management logic is provided in the operational description.
2. For WLAN Index 2 / 4 / 6 / 8 only for SISO mode Sim-Tx.
3. The designation "4+3(3)" refers to a 2TX transmission configuration in which antennas 4 and 3 are simultaneously active, and the SAR or output power measurement is specifically attributed to antenna 3.
4. The designation "4+3(4)" refers to a 2TX transmission configuration in which antennas 4 and 3 are simultaneously active, and the SAR or output power measurement is specifically attributed to antenna 4.

< 2.4GHz WLAN >

2.4GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Burst Average Power (dBm)																	
			Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11b (SISO)	1	2412	22.00	21.50	16.00	16.00		15.50	11.50	11.50		10.00	18.00	18.00		17.50	13.50	13.50		12.00
	6	2437	22.00	21.00	16.00	16.00		15.50	11.50	11.50		10.00	18.00	18.00		17.50	13.50	13.50		12.00
	11	2462	22.00	21.00	16.00	16.00		15.50	11.50	11.50		10.00	18.00	18.00		17.50	13.50	13.50		12.00
	12	2467	20.00	19.50	16.00	16.00		15.50	11.50	11.50		10.00	18.00	18.00		17.50	13.50	13.50		12.00
	13	2472	17.50	18.00	16.00	16.00		15.50	11.50	11.50		10.00	17.50	18.00		17.50	13.50	13.50		12.00

2.4GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Burst Average Power (dBm)																			
			Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8			
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
802.11g (MIMO)	1	2412	18.00	18.00	16.00	16.00				11.50	11.50				18.00	18.00			13.50	13.50		
	2	2417	19.50	19.50																		
	3	2422	21.00	21.00																		
	4	2427	21.00	21.00																		
	5	2432	21.00	21.00																		
	6	2437	21.00	21.00	16.00	16.00				11.50	11.50				18.00	18.00			13.50	13.50		
	7	2442	21.00	21.00																		
	8	2447	21.00	21.00																		
	9	2452	19.00	19.00																		
	10	2457	17.50	17.50																		
	11	2462	16.00	16.00	16.00	16.00				11.50	11.50				16.00	16.00			13.50	13.50		
	12	2467	13.50	13.50	13.50	13.50				11.50	11.50				13.50	13.50			13.50	13.50		
	13	2472	5.00	5.00	5.00	5.00				5.00	5.00				5.00	5.00			5.00	5.00		
802.11n HT20 (MIMO)	1	2412	18.00	18.00	16.00	16.00				10.00	10.00				18.00	18.00			13.50	13.50		
	2	2417	19.00	19.00																		
	3	2422	20.00	20.00																		
	4	2427	20.00	20.00																		
	5	2432	20.00	20.00																		
	6	2437	20.00	20.00	16.00	16.00				10.00	10.00				18.00	18.00			13.50	13.50		
	7	2442	20.00	20.00																		
	8	2447	20.00	20.00																		
	9	2452	18.50	18.50																		
	10	2457	17.00	17.00																		
	11	2462	16.00	16.00	16.00	16.00				10.00	10.00				16.00	16.00			13.50	13.50		
	12	2467	13.00	13.00	13.00	13.00				10.00	10.00				13.00	13.00			13.00	13.00		
	13	2472	4.50	4.50	4.50	4.50				4.50	4.50				4.50	4.50			4.50	4.50		
802.11ac VHT20 (MIMO)	1	2412	18.00	18.00	16.00	16.00				10.00	10.00				18.00	18.00			13.50	13.50		
	2	2417	19.00	19.00																		
	3	2422	20.00	20.00																		
	4	2427	20.00	20.00																		
	5	2432	20.00	20.00																		
	6	2437	20.00	20.00	16.00	16.00				10.00	10.00				18.00	18.00			13.50	13.50		
	7	2442	20.00	20.00																		
	8	2447	20.00	20.00																		
	9	2452	18.50	18.50																		
	10	2457	17.00	17.00																		
	11	2462	16.00	16.00	16.00	16.00				10.00	10.00				16.00	16.00			13.50	13.50		
	12	2467	13.00	13.00	13.00	13.00				10.00	10.00				13.00	13.00			13.00	13.00		
	13	2472	4.50	4.50	4.50	4.50				4.50	4.50				4.50	4.50			4.50	4.50		
802.11ax HE20 (MIMO)	1	2412	16.50	16.50	16.00	16.00				10.00	10.00				16.50	16.50			13.50	13.50		
	2	2417	17.50	17.50																		
	3	2422	18.50	18.50																		
	4	2427	19.50	19.50																		
	5	2432	19.50	19.50																		
	6	2437	19.50	19.50	16.00	16.00				10.00	10.00				18.00	18.00			13.50	13.50		
	7	2442	19.50	19.50																		
	8	2447	19.50	19.50																		
	9	2452	18.00	18.00																		
	10	2457	16.50	16.50																		
	11	2462	14.50	14.50	14.50	14.50				10.00	10.00				14.50	14.50			13.50	13.50		
	12	2467	12.00	12.00	12.00	12.00				10.00	10.00				12.00	12.00			12.00	12.00		
	13	2472	8.00	8.00	8.00	8.00				8.00	8.00				8.00	8.00			8.00	8.00		

**< 5GHz WLAN >**

Burst Average Power (dBm)																							
5.2GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	36	5180	15.00				15.00				9.00				15.00				15.00				
	40	5200	17.00				16.00				9.00				17.00				17.00				
	44	5220	19.00				16.00				9.00				19.00				17.00				
	48	5240	16.00				16.00				9.00				16.00				16.00				
802.11n HT20 (SISO)	36	5180	14.00				14.00				9.00				14.00				14.00				
	40	5200	16.50				16.00				9.00				16.50				16.50				
	44	5220	17.50				16.00				9.00				17.50				17.00				
	48	5240	16.00				16.00				9.00				16.00				16.00				
802.11n HT40 (SISO)	38	5190	13.00				13.00				9.00				13.00				13.00				
	46	5230	16.00				16.00				9.00				16.00				16.00				
802.11ac VHT20 (SISO)	36	5180	14.00				14.00				9.00				14.00				14.00				
	40	5200	16.50				16.00				9.00				16.50				16.50				
	44	5220	17.50				16.00				9.00				17.50				17.00				
	48	5240	16.00				16.00				9.00				16.00				16.00				
802.11ac VHT40 (SISO)	38	5190	13.00				13.00				9.00				13.00				13.00				
	46	5230	16.00				16.00				9.00				16.00				16.00				
802.11ac VHT80 (SISO)	42	5210	11.00				11.00				9.00				11.00				11.00				
802.11ax HE20 (SISO)	36	5180	14.00				14.00				9.00				14.00				14.00				
	40	5200	16.50				16.00				9.00				16.50				16.50				
	44	5220	18.00				16.00				9.00				18.00				17.00				
	48	5240	16.50				16.00				9.00				16.50				16.50				
802.11ax HE40 (SISO)	38	5190	13.00				13.00				9.00				13.00				13.00				
	46	5230	16.50				16.00				9.00				16.50				16.50				
802.11ax HE80 (SISO)	42	5210	11.00				11.00				9.00				11.00				11.00				

Burst Average Power (dBm)																							
5.2GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (MIMO)	36	5180	15.00	15.00	15.00	15.00			11.50	11.50	9.00	9.00	15.00	15.00			14.50	14.50			13.00	13.00	
	40	5200	17.00	17.00	15.50	15.50			11.50	11.50	9.00	9.00	17.00	17.00			14.50	14.50			13.00	13.00	
	44	5220	19.00	19.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			14.50	14.50			13.00	13.00	
	48	5240	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			14.50	14.50			13.00	13.00	
802.11n HT20 (MIMO)	36	5180	14.00	14.00	14.00	14.00			11.50	11.50	9.00	9.00	14.00	14.00			14.00	14.00			13.00	13.00	
	40	5200	16.50	16.50	15.50	15.50			11.50	11.50	9.00	9.00	16.50	16.50			14.50	14.50			13.00	13.00	
	44	5220	17.50	17.50	15.50	15.50			11.50	11.50	9.00	9.00	17.50	17.50			14.50	14.50			13.00	13.00	
	48	5240	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			14.50	14.50			13.00	13.00	
802.11n HT40 (MIMO)	38	5190	13.00	13.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00	
	46	5230	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			14.50	14.50			13.00	13.00	
802.11ac VHT20 (MIMO)	36	5180	14.00	14.00	14.00	14.00			11.50	11.50	9.00	9.00	14.00	14.00			14.00	14.00			13.00	13.00	
	40	5200	16.50	16.50	15.50	15.50			11.50	11.50	9.00	9.00	16.50	16.50			14.50	14.50			13.00	13.00	
	44	5220	17.50	17.50	15.50	15.50			11.50	11.50	9.00	9.00	17.50	17.50			14.50	14.50			13.00	13.00	
	48	5240	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			14.50	14.50			13.00	13.00	
802.11ac VHT40 (MIMO)	38	5190	13.00	13.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00	
	46	5230	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			14.50	14.50			13.00	13.00	
802.11ac VHT80 (MIMO)	42	5210	11.00	11.00	11.00	11.00			11.00	11.00	9.00	9.00	11.00	11.00			11.00	11.00			11.00	11.00	
802.11ax HE20 (MIMO)	36	5180	14.00	14.00	14.00	14.00			11.50	11.50	9.00	9.00	14.00	14.00			14.00	14.00			13.00	13.00	
	40	5200	16.50	16.50	15.50	15.50			11.50	11.50	9.00	9.00	16.50	16.50			14.50	14.50			13.00	13.00	
	44	5220	18.00	18.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			14.50	14.50			13.00	13.00	
	48	5240	16.50	16.50	15.50	15.50			11.50	11.50	9.00	9.00	16.50	16.50			14.50	14.50			13.00	13.00	
802.11ax HE40 (MIMO)	38	5190	13.00	13.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00	
	46	5230	16.50	16.50	15.50	15.50			11.50	11.50	9.00	9.00	16.50	16.50			14.50	14.50			13.00	13.00	
802.11ax HE80 (MIMO)	42	5210	11.00	11.00	11.00	11.00			11.00	11.00	9.00	9.00	11.00	11.00			11.00	11.00			11.00	11.00	



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Burst Average Power (dBm)																							
5.3GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	52	5260	19.00				16.00				9.00				19.00				17.00				
	56	5280	18.00				16.00				9.00				18.00				17.00				
	60	5300	17.50				16.00				9.00				17.50				17.00				
	64	5320	15.00				15.00				9.00				15.00				15.00				
802.11n HT20 (SISO)	52	5260	19.00				16.00				9.00				19.00				17.00				
	56	5280	18.00				16.00				9.00				18.00				17.00				
	60	5300	17.50				16.00				9.00				17.50				17.00				
	64	5320	15.00				15.00				9.00				15.00				15.00				
802.11n HT40 (SISO)	54	5270	16.00				16.00				9.00				16.00				16.00				
	62	5310	12.00				12.00				9.00				12.00				12.00				
802.11ac VHT20 (SISO)	52	5260	19.00				16.00				9.00				19.00				17.00				
	56	5280	18.00				16.00				9.00				18.00				17.00				
	60	5300	17.50				16.00				9.00				17.50				17.00				
	64	5320	15.00				15.00				9.00				15.00				15.00				
802.11ac VHT40 (SISO)	54	5270	16.00				16.00				9.00				16.00				16.00				
	62	5310	12.00				12.00				9.00				12.00				12.00				
802.11ac VHT80 (SISO)	58	5290	11.50				11.50				9.00				11.50				11.50				
802.11ax HE20 (SISO)	52	5260	19.00				16.00				9.00				19.00				17.00				
	56	5280	18.00				16.00				9.00				18.00				17.00				
	60	5300	17.00				16.00				9.00				17.00				17.00				
	64	5320	14.50				14.50				9.00				14.50				14.50				
802.11ax HE40 (SISO)	54	5270	16.00				16.00				9.00				16.00				16.00				
	62	5310	12.50				12.50				9.00				12.50				12.50				
802.11ax HE80 (SISO)	58	5290	11.50				11.50				9.00				11.50				11.50				

Burst Average Power (dBm)																								
5.3GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		Ant 4	Ant 3
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
802.11a (MIMO)	52	5260	19.00	19.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	56	5280	18.00	18.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	60	5300	17.50	17.50	15.50	15.50			11.50	11.50	9.00	9.00	17.50	17.50			15.00	15.00			14.50	14.50		
	64	5320	15.00	15.00	15.00	15.00			11.50	11.50	9.00	9.00	15.00	15.00			15.00	15.00			14.50	14.50		
802.11n HT20 (MIMO)	52	5260	19.00	19.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	56	5280	18.00	18.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	60	5300	17.50	17.50	15.50	15.50			11.50	11.50	9.00	9.00	17.50	17.50			15.00	15.00			14.50	14.50		
	64	5320	15.00	15.00	15.00	15.00			11.50	11.50	9.00	9.00	15.00	15.00			15.00	15.00			14.50	14.50		
802.11n HT40 (MIMO)	54	5270	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			15.00	15.00			14.50	14.50		
	62	5310	12.00	12.00	12.00	12.00			11.50	11.50	9.00	9.00	12.00	12.00			12.00	12.00			12.00	12.00		
802.11ac VHT20 (MIMO)	52	5260	19.00	19.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	56	5280	18.00	18.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	60	5300	17.50	17.50	15.50	15.50			11.50	11.50	9.00	9.00	17.50	17.50			15.00	15.00			14.50	14.50		
	64	5320	15.00	15.00	15.00	15.00			11.50	11.50	9.00	9.00	15.00	15.00			15.00	15.00			14.50	14.50		
802.11ac VHT40 (MIMO)	54	5270	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			15.00	15.00			14.50	14.50		
	62	5310	12.00	12.00	12.00	12.00			11.50	11.50	9.00	9.00	12.00	12.00			12.00	12.00			12.00	12.00		
802.11ac VHT80 (MIMO)	58	5290	11.50	11.50	11.50	11.50			11.50	11.50	9.00	9.00	11.50	11.50			11.50	11.50			11.50	11.50		
802.11ax HE20 (MIMO)	52	5260	19.00	19.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	56	5280	18.00	18.00	15.50	15.50			11.50	11.50	9.00	9.00	18.00	18.00			15.00	15.00			14.50	14.50		
	60	5300	17.00	17.00	15.50	15.50			11.50	11.50	9.00	9.00	17.00	17.00			15.00	15.00			14.50	14.50		
	64	5320	14.50	14.50	14.50	14.50			11.50	11.50	9.00	9.00	14.50	14.50			14.50	14.50			14.50	14.50		
802.11ax HE40 (MIMO)	54	5270	16.00	16.00	15.50	15.50			11.50	11.50	9.00	9.00	16.00	16.00			15.00	15.00			14.50	14.50		
	62	5310	12.50	12.50	12.50	12.50			11.50	11.50	9.00	9.00	12.50	12.50			12.50	12.50			12.50	12.50		
802.11ax HE80 (MIMO)	58	5290	11.50	11.50	11.50	11.50			11.50	11.50	9.00	9.00	11.50	11.50			11.50	11.50			11.50	11.50		



Burst Average Power (dBm)																						
5.5GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	100	5500	16.50				14.50				9.50				16.50				14.50			
	104	5520	17.50																			
	116	5580	19.00				14.50				9.50				17.00				14.50			
	124	5620	19.00				14.50				9.50				17.00				14.50			
	132	5660	19.00				14.50				9.50				17.00				14.50			
	136	5680	17.50																			
	140	5700	15.00																			
	144	5720	19.00				14.50				9.50				17.00				14.50			
802.11n HT20 (SISO)	100	5500	16.50				14.50				9.50				16.50				14.50			
	104	5520	17.50																			
	116	5580	19.00				14.50				9.50				17.00				14.50			
	124	5620	19.00				14.50				9.50				17.00				14.50			
	132	5660	19.00				14.50				9.50				17.00				14.50			
	136	5680	17.50																			
	140	5700	14.00																			
	144	5720	19.00				14.50				9.50				17.00				14.50			
802.11n HT40 (SISO)	102	5510	14.50				14.50				9.50				14.50				14.50			
	110	5550	18.50				14.50				9.50				17.00				14.50			
	126	5630	18.50				14.50				9.50				17.00				14.50			
	134	5670	15.50				14.50				9.50				15.50				14.50			
	142	5710	19.00				14.50				9.50				17.00				14.50			
802.11ac VHT20 (SISO)	100	5500	16.50				14.50				9.50				16.50				14.50			
	104	5520	17.50																			
	116	5580					14.50				9.50				17.00				14.50			
	124	5620	19.00				14.50				9.50				17.00				14.50			
	132	5660	19.00				14.50				9.50				17.00				14.50			
	136	5680	17.50																			
	140	5700	14.00																			
	144	5720	19.00				14.50				9.50				17.00				14.50			
802.11ac VHT40 (SISO)	102	5510	14.50				14.50				9.50				14.50				14.50			
	110	5550	18.50				14.50				9.50				17.00				14.50			
	126	5630	18.50				14.50				9.50				17.00				14.50			
	134	5670	15.50				14.50				9.50				15.50				14.50			
	142	5710	19.00				14.50				9.50				17.00				14.50			
802.11ac VHT80 (SISO)	106	5530	13.50				13.50				9.50				13.50				13.50			
	122	5610	16.00				14.50				9.50				16.00				14.50			
	138	5690	18.00				14.50				9.50				17.00				14.50			
802.11ax HE20 (SISO)	100	5500	16.00				14.50				9.50				16.00				14.50			
	104	5520	17.00																			
	116	5580	19.00				14.50				9.50				17.00				14.50			
	124	5620	19.00				14.50				9.50				17.00				14.50			
	132	5660	19.00				14.50				9.50				17.00				14.50			
	136	5680	17.00																			
	140	5700	12.00																			
	144	5720	19.00				14.50				9.50				17.00				14.50			
802.11ax HE40 (SISO)	102	5510	15.00				14.50				9.50				15.00				14.50			
	110	5550	18.00				14.50				9.50				17.00				14.50			
	126	5630	18.00				14.50				9.50				17.00				14.50			
	134	5670	16.00				14.50				9.50				16.00				14.50			
	142	5710	19.00				14.50				9.50				17.00				14.50			
802.11ax HE80 (SISO)	106	5530	13.50				13.50				9.50				13.50				13.50			
	122	5610	16.00				14.50				9.50				16.00				14.50			
	138	5690	18.00				14.50				9.50				17.00				14.50			

Burst Average Power (dBm)																						
5.5GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	100	5500	16.50	16.50	15.50	15.50			13.00	13.00	9.50	9.50	16.50	16.50			15.00	15.00			14.50	14.50
	104	5520	17.50	17.50																		
	116	5580	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	124	5620	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	132	5660	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	136	5680	17.50	17.50																		
	140	5700	15.00	15.00																		
	144	5720	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11n HT20 (MIMO)	100	5500	16.50	16.50	15.50	15.50			13.00	13.00	9.50	9.50	16.50	16.50			15.00	15.00			14.50	14.50
	104	5520	17.50	17.50																		
	116	5580	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	124	5620	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	132	5660	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	136	5680	17.50	17.50																		
	140	5700	14.00	14.00																		
	144	5720	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11n HT40 (MIMO)	102	5510	14.50	14.50	14.50	14.50			13.00	13.00	9.50	9.50	14.50	14.50			14.50	14.50			14.50	14.50
	110	5550	18.50	18.50	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	126	5630	18.50	18.50	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	134	5670	15.50	15.50	15.50	15.50			13.00	13.00	9.50	9.50	15.50	15.50			15.00	15.00			14.50	14.50
	142	5710	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ac VHT20 (MIMO)	100	5500	16.50	16.50	15.50	15.50			13.00	13.00	9.50	9.50	16.50	16.50			15.00	15.00			14.50	14.50
	104	5520	17.50	17.50																		
	116	5580	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	124	5620	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	132	5660	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	136	5680	17.50	17.50																		
	140	5700	14.00	14.00																		
	144	5720	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ac VHT40 (MIMO)	102	5510	14.50	14.50	14.50	14.50			13.00	13.00	9.50	9.50	14.50	14.50			14.50	14.50			14.50	14.50
	110	5550	18.50	18.50	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	126	5630	18.50	18.50	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	134	5670	15.50	15.50	15.50	15.50			13.00	13.00	9.50	9.50	15.50	15.50			15.00	15.00			14.50	14.50
	142	5710	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ac VHT80 (MIMO)	106	5530	13.50	13.50	13.50	13.50			13.00	13.00	9.50	9.50	13.50	13.50			13.50	13.50			13.50	13.50
	122	5610	16.00	16.00	15.50	15.50			13.00	13.00	9.50	9.50	16.00	16.00			15.00	15.00			14.50	14.50
	138	5690	18.00	18.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ax HE20 (MIMO)	100	5500	16.00	16.00	15.50	15.50			13.00	13.00	9.50	9.50	16.00	16.00			15.00	15.00			14.50	14.50
	104	5520	17.00	17.00																		
	116	5580	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	124	5620	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	132	5660	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	136	5680	17.00	17.00																		
	140	5700	12.00	12.00																		
	144	5720	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ax HE40 (MIMO)	102	5510	15.00	15.00	15.00	15.00			13.00	13.00	9.50	9.50	15.00	15.00			15.00	15.00			14.50	14.50
	110	5550	18.00	18.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	126	5630	18.00	18.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
	134	5670	16.00	16.00	15.50	15.50			13.00	13.00	9.50	9.50	16.00	16.00			15.00	15.00			14.50	14.50
	142	5710	19.00	19.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50
802.11ax HE80 (MIMO)	106	5530	13.50	13.50	13.50	13.50			13.00	13.00	9.50	9.50	13.50	13.50			13.50	13.50			13.50	13.50
	122	5610	16.00	16.00	15.50	15.50			13.00	13.00	9.50	9.50	16.00	16.00			15.00	15.00			14.50	14.50
	138	5690	18.00	18.00	15.50	15.50			13.00	13.00	9.50	9.50	18.00	18.00			15.00	15.00			14.50	14.50



Burst Average Power (dBm)																							
5.8GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	149	5745	19.00				15.50				10.00				18.00				15.50				
	157	5785	19.00				15.50				10.00				18.00				15.50				
	165	5825	19.00				15.50				10.00				18.00				15.50				
802.11n HT20 (SISO)	149	5745	19.00				15.50				10.00				18.00				15.50				
	157	5785	19.00				15.50				10.00				18.00				15.50				
	165	5825	19.00				15.50				10.00				18.00				15.50				
802.11n HT40 (SISO)	151	5755	19.00				15.50				10.00				18.00				15.50				
	159	5795	19.00				15.50				10.00				18.00				15.50				
802.11ac VHT20 (SISO)	149	5745	19.00				15.50				10.00				18.00				15.50				
	157	5785	19.00				15.50				10.00				18.00				15.50				
	165	5825	19.00				15.50				10.00				18.00				15.50				
802.11ac VHT40 (SISO)	151	5755	19.00				15.50				10.00				18.00				15.50				
	159	5795	19.00				15.50				10.00				18.00				15.50				
802.11ac VHT80 (SISO)	155	5775	17.00				15.50				10.00				17.00				15.50				
802.11ax HE20 (SISO)	149	5745	19.00				15.50				10.00				18.00				15.50				
	157	5785	19.00				15.50				10.00				18.00				15.50				
	165	5825	19.00				15.50				10.00				18.00				15.50				
802.11ax HE40 (SISO)	151	5755	19.00				15.50				10.00				18.00				15.50				
	159	5795	19.00				15.50				10.00				18.00				15.50				
802.11ax HE80 (SISO)	155	5775	17.00				15.50				10.00				17.00				15.50				

Burst Average Power (dBm)																							
5.8GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (MIMO)	149	5745	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	157	5785	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	165	5825	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11n HT20 (MIMO)	149	5745	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	157	5785	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	165	5825	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11n HT40 (MIMO)	151	5755	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	159	5795	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11ac VHT20 (MIMO)	149	5745	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	157	5785	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	165	5825	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11ac VHT40 (MIMO)	151	5755	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	159	5795	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11ac VHT80 (MIMO)	155	5775	17.00	17.00	15.50	15.50			11.50	11.50	10.00	10.00	17.00	17.00			14.00	14.00			13.00	13.00	
802.11ax HE20 (MIMO)	149	5745	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	157	5785	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	165	5825	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11ax HE40 (MIMO)	151	5755	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
	159	5795	19.00	19.00	15.50	15.50			11.50	11.50	10.00	10.00	19.00	19.00			14.00	14.00			13.00	13.00	
802.11ax HE80 (MIMO)	155	5775	17.00	17.00	15.50	15.50			11.50	11.50	10.00	10.00	17.00	17.00			14.00	14.00			13.00	13.00	

Burst Average Power (dBm)																						
5.9GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	169	5845	19.00				15.00				9.00				18.50				15.50			
	173	5865	19.00				15.00				9.00				18.50				15.50			
	177	5885	18.50				15.00				9.00				18.50				15.50			
802.11n HT20 (SISO)	169	5845	19.00				15.00				9.00				18.50				15.50			
	173	5865	19.00				15.00				9.00				18.50				15.50			
	177	5885	18.50				15.00				9.00				18.50				15.50			
802.11n HT40 (SISO)	167	5835	19.00				15.00				9.00				18.50				15.50			
	175	5875	17.50				15.00				9.00				17.50				15.50			
802.11ac VHT20 (SISO)	169	5845	19.00				15.00				9.00				18.50				15.50			
	173	5865	19.00				15.00				9.00				18.50				15.50			
	177	5885	18.50				15.00				9.00				18.50				15.50			
802.11ac VHT40 (SISO)	167	5835	19.00				15.00				9.00				18.50				15.50			
	175	5875	17.50				15.00				9.00				17.50				15.50			
802.11ac VHT80 (SISO)	171	5855	16.00				15.00				9.00				16.00				15.50			
802.11ax HE20 (SISO)	169	5845	19.00				15.00				9.00				18.50				15.50			
	173	5865	19.00				15.00				9.00				18.50				15.50			
	177	5885	18.50				15.00				9.00				18.50				15.50			
802.11ax HE40 (SISO)	167	5835	19.00				15.00				9.00				18.50				15.50			
	175	5875	17.50				15.00				9.00				17.50				15.50			
802.11ax HE80 (SISO)	171	5855	16.00				15.00				9.00				16.00				15.50			

Burst Average Power (dBm)																						
5.9GHz Mode (CDD/SDM)	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	169	5845	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	173	5865	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	177	5885	18.50	18.50	14.50	14.50			9.00	9.00	9.00	9.00	18.50	18.50			16.00	16.00			15.50	15.50
802.11n HT20 (MIMO)	169	5845	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	173	5865	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	177	5885	18.50	18.50	14.50	14.50			9.00	9.00	9.00	9.00	18.50	18.50			16.00	16.00			15.50	15.50
802.11n HT40 (MIMO)	167	5835	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	175	5875	17.50	17.50	14.50	14.50			9.00	9.00	9.00	9.00	17.50	17.50			16.00	16.00			15.50	15.50
802.11ac VHT20 (MIMO)	169	5845	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	173	5865	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	177	5885	18.50	18.50	14.50	14.50			9.00	9.00	9.00	9.00	18.50	18.50			16.00	16.00			15.50	15.50
802.11ac VHT40 (MIMO)	167	5835	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	175	5875	17.50	17.50	14.50	14.50			9.00	9.00	9.00	9.00	17.50	17.50			16.00	16.00			15.50	15.50
802.11ac VHT80 (MIMO)	171	5855	16.00	16.00	14.50	14.50			9.00	9.00	9.00	9.00	16.00	16.00			16.00	16.00			15.50	15.50
802.11ax HE20 (MIMO)	169	5845	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	173	5865	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	177	5885	18.50	18.50	14.50	14.50			9.00	9.00	9.00	9.00	18.50	18.50			16.00	16.00			15.50	15.50
802.11ax HE40 (MIMO)	167	5835	19.00	19.00	14.50	14.50			9.00	9.00	9.00	9.00	19.00	19.00			16.00	16.00			15.50	15.50
	175	5875	17.50	17.50	14.50	14.50			9.00	9.00	9.00	9.00	17.50	17.50			16.00	16.00			15.50	15.50
802.11ax HE80 (MIMO)	171	5855	16.00	16.00	14.50	14.50			9.00	9.00	9.00	9.00	16.00	16.00			16.00	16.00			15.50	15.50

< 6GHz WLAN >

Standard Power (SP)

Maximum Transmit Burst Average Power (dBm)					
6GHz Mode (SDM/CDD)	Band	Channel	Frequency (MHz)	Maximum power	
				Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	19.00	19.00
	UNII 5	49	6195	19.00	19.00
	UNII 5	93	6415	19.00	19.00
	UNII 7	117	6535	19.00	19.00
	UNII 7	149	6695	19.00	19.00
	UNII 7	181	6855	19.00	19.00
802.11ax-HE20 (MIMO)	UNII 5	1	5955	18.00	18.00
	UNII 5	49	6195	19.00	19.00
	UNII 5	93	6415	19.00	19.00
	UNII 7	117	6535	19.00	19.00
	UNII 7	149	6695	19.00	19.00
	UNII 7	181	6855	19.00	19.00
802.11ax-HE40 (MIMO)	UNII 5	3	5965	16.50	16.50
	UNII 5	51	6205	19.00	19.00
	UNII 5	91	6405	19.00	19.00
	UNII 7	123	6565	19.00	19.00
	UNII 7	147	6685	19.00	19.00
	UNII 7	179	6845	19.00	19.00
802.11ax-HE80 (MIMO)	UNII 5	7	5985	15.50	15.50
	UNII 5	55	6225	19.00	19.00
	UNII 5	87	6385	19.00	19.00
	UNII 7	135	6625	19.00	19.00
	UNII 7	151	6705	19.00	19.00
	UNII 7	167	6785	19.00	19.00



Burst Average Power (dBm)																							
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	UNII 5	1	5955	19.00				16.00				9.00				17.00				16.00			
	UNII 5	57	6235	19.00				16.00				9.00				17.00				16.00			
	UNII 7	173	6815	19.00				18.00				12.50				18.00				14.00			
802.11ax HE20 (SISO)	UNII 5	1	5955	18.00				16.00				9.00				17.00				16.00			
	UNII 5	57	6235	19.00				16.00				9.00				17.00				16.00			
	UNII 7	173	6815	19.00				18.00				12.50				18.00				14.00			
802.11ax HE40 (SISO)	UNII 5	3	5965	16.50				16.00				9.00				16.50				16.00			
	UNII 5	59	6245	19.00				16.00				9.00				17.00				16.00			
	UNII 7	171	6805	19.00				18.00				12.50				18.00				14.00			
802.11ax HE80 (SISO)	UNII 5	7	5985	15.50				15.50				9.00				15.50				15.50			
	UNII 5	71	6305	19.00				16.00				9.00				17.00				16.00			
	UNII 7	167	6785	19.00				18.00				12.50				18.00				14.00			

Burst Average Power (dBm)																							
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	19.00	19.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	57	6235	19.00	19.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 7	173	6815	19.00	19.00	15.00	15.00			15.00	15.00	12.50	12.50	15.00	15.00			15.00	15.00			15.00	15.00
802.11ax HE20 (MIMO)	UNII 5	1	5955	18.00	18.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	57	6235	19.00	19.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 7	173	6815	19.00	19.00	15.00	15.00			15.00	15.00	12.50	12.50	15.00	15.00			15.00	15.00			15.00	15.00
802.11ax HE40 (MIMO)	UNII 5	3	5965	16.50	16.50	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	59	6245	19.00	19.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 7	171	6805	19.00	19.00	15.00	15.00			15.00	15.00	12.50	12.50	15.00	15.00			15.00	15.00			15.00	15.00
802.11ax HE80 (MIMO)	UNII 5	7	5985	15.50	15.50	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	71	6305	19.00	19.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 7	167	6785	19.00	19.00	15.00	15.00			15.00	15.00	12.50	12.50	15.00	15.00			15.00	15.00			15.00	15.00

Low Power Indoor (LPI)

6GHz Mode (SDM/CDD)	Maximum Transmit Burst Average Power (dBm)						
	Band	Channel	Frequency (MHz)	SDM		CDD	
				Maximum power		Maximum power	
				Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	10.00	10.00	8.00	8.00
	UNII 5	49	6195	10.00	10.00	8.00	8.00
	UNII 5	93	6415	10.00	10.00	8.00	8.00
	UNII 6	97	6435	11.00	11.00	8.50	8.50
	UNII 6	105	6475	11.00	11.00	8.50	8.50
	UNII 6	113	6515	11.00	11.00	8.50	8.50
	UNII 7	117	6535	11.00	11.00	8.00	8.00
	UNII 7	149	6695	11.00	11.00	8.00	8.00
	UNII 7	181	6855	11.00	11.00	8.00	8.00
	UNII 7	185	6875	11.00	11.00	8.00	8.00
	UNII 8	189	6895	13.50	13.50	11.00	11.00
	UNII 8	209	6995	13.50	13.50	11.00	11.00
802.11ax-HE20 (MIMO)	UNII 5	1	5955	10.50	10.50	8.50	8.50
	UNII 5	49	6195	10.50	10.50	8.50	8.50
	UNII 5	93	6415	10.50	10.50	8.50	8.50
	UNII 6	97	6435	11.50	11.50	9.00	9.00
	UNII 6	105	6475	11.50	11.50	9.00	9.00
	UNII 6	113	6515	11.50	11.50	8.50	8.50
	UNII 7	117	6535	11.50	11.50	8.50	8.50
	UNII 7	149	6695	11.50	11.50	8.50	8.50
	UNII 7	181	6855	11.50	11.50	8.50	8.50
	UNII 7	185	6875	11.50	11.50	8.50	8.50
	UNII 8	189	6895	14.00	14.00	11.50	11.50
	UNII 8	209	6995	14.00	14.00	11.50	11.50
802.11ax-HE40 (MIMO)	UNII 5	3	5965	13.50	13.50	11.50	11.50
	UNII 5	51	6205	13.50	13.50	11.50	11.50
	UNII 5	91	6405	13.50	13.50	11.50	11.50
	UNII 6	99	6445	14.50	14.50	11.50	11.50
	UNII 6	107	6485	14.50	14.50	11.50	11.50
	UNII 6	115	6525	14.50	14.50	11.00	11.00
	UNII 7	123	6565	14.50	14.50	11.00	11.00
	UNII 7	147	6685	14.50	14.50	11.00	11.00
	UNII 7	179	6845	14.50	14.50	11.00	11.00
	UNII 7	187	6885	14.50	14.50	11.00	11.00
	UNII 8	195	6925	16.50	16.50	14.50	14.50
	UNII 8	211	7005	16.50	16.50	14.50	14.50
802.11ax-HE80 (MIMO)	UNII 5	7	5985	15.50	15.50	14.50	14.50
	UNII 5	55	6225	16.00	16.00	14.50	14.50
	UNII 5	87	6385	16.00	16.00	14.50	14.50
	UNII 6	103	6465	17.00	17.00	15.00	15.00
	UNII 6	119	6545	17.00	17.00	14.50	14.50
	UNII 7	135	6625	17.00	17.00	14.50	14.50
	UNII 7	151	6705	17.00	17.00	14.50	14.50
	UNII 7	167	6785	17.00	17.00	14.50	14.50
	UNII 7	183	6865	17.00	17.00	14.50	14.50
	UNII 8	199	6945	18.00	18.00	17.50	17.50
	UNII 8	215	7025	18.00	18.00	17.50	17.50



Burst Average Power (dBm)																							
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	UNII 5	1	5955	10.00				10.00				9.00				10.00				10.00			
	UNII 5	57	6235	10.00				10.00				9.00				10.00				10.00			
	UNII 6	113	6515	11.00				11.00				10.00				11.00				11.00			
	UNII 7	173	6815	11.00				11.00				11.00				11.00				11.00			
802.11ax HE20 (SISO)	UNII 5	1	5955	10.50				10.50				9.00				10.50				10.50			
	UNII 5	57	6235	10.50				10.50				9.00				10.50				10.50			
	UNII 6	113	6515	11.50				11.50				10.00				11.50				11.50			
	UNII 7	173	6815	11.50				11.50				11.50				11.50				11.50			
802.11ax HE40 (SISO)	UNII 5	3	5965	13.50				13.50				9.00				13.50				13.50			
	UNII 5	59	6245	13.50				13.50				9.00				13.50				13.50			
	UNII 6	107	6485	14.50				14.50				10.00				14.50				14.50			
	UNII 7	171	6805	14.50				14.50				12.50				14.50				14.00			
	UNII 8	227	7085	16.00				16.00				11.50				16.00				15.00			
802.11ax HE80 (SISO)	UNII 5	7	5985	15.50				15.50				9.00				15.50				15.50			
	UNII 5	71	6305	16.00				16.00				9.00				16.00				16.00			
	UNII 6	119	6545	17.00				17.00				10.00				17.00				15.00			
	UNII 7	167	6785	17.00				17.00				12.50				17.00				14.00			
	UNII 8	215	7025	18.00				18.00				11.50				18.00				15.00			

Burst Average Power (dBm)																							
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	10.00	10.00	10.00	10.00			10.00	10.00	9.00	9.00	10.00	10.00			10.00	10.00			10.00	10.00
	UNII 5	57	6235	10.00	10.00	10.00	10.00			10.00	10.00	9.00	9.00	10.00	10.00			10.00	10.00			10.00	10.00
	UNII 6	113	6515	11.00	11.00	11.00	11.00			11.00	11.00	10.00	10.00	11.00	11.00			11.00	11.00			11.00	11.00
	UNII 7	173	6815	11.00	11.00	11.00	11.00			11.00	11.00	11.00	11.00	11.00	11.00			11.00	11.00			11.00	11.00
802.11ax HE20 (MIMO)	UNII 5	1	5955	10.50	10.50	10.50	10.50			10.50	10.50	9.00	9.00	10.50	10.50			10.50	10.50			10.50	10.50
	UNII 5	57	6235	10.50	10.50	10.50	10.50			10.50	10.50	9.00	9.00	10.50	10.50			10.50	10.50			10.50	10.50
	UNII 6	113	6515	11.50	11.50	11.50	11.50			11.50	11.50	10.00	10.00	11.50	11.50			11.50	11.50			11.50	11.50
	UNII 7	173	6815	11.50	11.50	11.50	11.50			11.50	11.50	11.50	11.50	11.50	11.50			11.50	11.50			11.50	11.50
802.11ax HE40 (MIMO)	UNII 5	3	5965	13.50	13.50	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	59	6245	13.50	13.50	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 6	107	6485	14.50	14.50	13.50	13.50			13.50	13.50	10.00	10.00	13.50	13.50			13.50	13.50			13.50	13.50
	UNII 7	171	6805	14.50	14.50	14.50	14.50			14.50	14.50	12.50	12.50	14.50	14.50			14.50	14.50			14.50	14.50
	UNII 8	227	7085	16.00	16.00	16.00	16.00			12.00	12.00	11.50	11.50	16.00	16.00			16.00	16.00			16.00	16.00
802.11ax HE80 (MIMO)	UNII 5	7	5985	15.50	15.50	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 5	71	6305	16.00	16.00	13.00	13.00			11.50	11.50	9.00	9.00	13.00	13.00			13.00	13.00			13.00	13.00
	UNII 6	119	6545	17.00	17.00	13.50	13.50			13.50	13.50	10.00	10.00	13.50	13.50			13.50	13.50			13.50	13.50
	UNII 7	167	6785	17.00	17.00	15.00	15.00			15.00	15.00	12.50	12.50	15.00	15.00			15.00	15.00			15.00	15.00
	UNII 8	215	7025	18.00	18.00	17.50	17.50			12.00	12.00	11.50	11.50	17.50	17.50			17.50	17.50			17.50	17.50

Very Low Power(VLP)

Maximum Transmit Burst Average Power (dBm)							
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	SDM		CDD	
				Maximum power		Maximum power	
				Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	5.50	5.50	4.00	4.00
	UNII 5	49	6195	5.50	5.50	4.00	4.00
	UNII 5	93	6415	5.50	5.50	4.00	4.00
	UNII 6	97	6435	7.00	7.00	4.50	4.50
	UNII 6	105	6475	7.00	7.00	4.50	4.50
	UNII 6	113	6515	7.50	7.50	4.50	4.50
	UNII 7	117	6535	7.50	7.50	4.00	4.00
	UNII 7	149	6695	7.50	7.50	4.00	4.00
	UNII 7	181	6855	7.50	7.50	4.00	4.00
	UNII 7	185	6875	7.50	7.50	4.00	4.00
	UNII 8	189	6895	9.00	9.00	7.50	7.50
	UNII 8	209	6995	9.00	9.00	7.50	7.50
802.11ax-HE20 (MIMO)	UNII 8	229	7095	9.50	9.50	7.50	7.50
	UNII 5	1	5955	6.50	6.50	4.50	4.50
	UNII 5	49	6195	6.50	6.50	4.50	4.50
	UNII 5	93	6415	6.50	6.50	4.50	4.50
	UNII 6	97	6435	7.50	7.50	5.50	5.50
	UNII 6	105	6475	7.50	7.50	5.50	5.50
	UNII 6	113	6515	7.50	7.50	5.50	5.50
	UNII 7	117	6535	7.50	7.50	4.50	4.50
	UNII 7	149	6695	7.50	7.50	4.50	4.50
	UNII 7	181	6855	7.50	7.50	4.50	4.50
	UNII 7	185	6875	7.50	7.50	4.50	4.50
	UNII 8	189	6895	9.50	9.50	8.00	8.00
802.11ax-HE40 (MIMO)	UNII 8	209	6995	9.50	9.50	8.00	8.00
	UNII 8	229	7095	10.00	10.00	8.00	8.00
	UNII 5	3	5965	9.50	9.50	7.00	7.00
	UNII 5	51	6205	9.50	9.50	7.00	7.00
	UNII 5	91	6405	9.50	9.50	7.00	7.00
	UNII 6	99	6445	10.50	10.50	7.50	7.50
	UNII 6	107	6485	10.50	10.50	7.50	7.50
	UNII 6	115	6525	10.50	10.50	7.50	7.50
	UNII 7	123	6565	10.50	10.50	7.50	7.50
	UNII 7	147	6685	10.50	10.50	7.50	7.50
	UNII 7	179	6845	10.50	10.50	7.50	7.50
	UNII 7	187	6885	10.50	10.50	7.50	7.50
802.11ax-HE80 (MIMO)	UNII 8	195	6925	13.00	13.00	10.50	10.50
	UNII 8	211	7005	13.00	13.00	10.50	10.50
	UNII 8	227	7085	13.00	13.00	10.50	10.50
	UNII 5	7	5985	12.00	12.00	10.50	10.50
	UNII 5	55	6225	12.00	12.00	10.50	10.50
	UNII 5	87	6385	12.00	12.00	10.50	10.50
	UNII 6	103	6465	13.00	13.00	10.00	10.00
	UNII 6	119	6545	13.00	13.00	10.00	10.00
	UNII 7	135	6625	13.00	13.00	10.00	10.00
	UNII 7	151	6705	13.00	13.00	10.00	10.00
	UNII 7	167	6785	13.00	13.00	9.50	9.50
	UNII 7	183	6865	13.00	13.00	9.50	9.50
	UNII 8	199	6945	15.50	15.50	13.00	13.00
	UNII 8	215	7025	15.50	15.50	13.00	13.00

Burst Average Power (dBm)											
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	UNII 5	1	5955	5.50				5.50			
	UNII 5	57	6235	5.50				5.50			
	UNII 6	113	6515	7.50				7.50			
	UNII 7	173	6815	7.50				7.50			
802.11ax HE20 (SISO)	UNII 5	1	5955	6.50				6.50			
	UNII 5	57	6235	6.50				6.50			
	UNII 6	113	6515	7.50				7.50			
	UNII 7	173	6815	7.50				7.50			
802.11ax HE40 (SISO)	UNII 5	3	5965	9.50				9.50			
	UNII 5	59	6245	9.50				9.50			
	UNII 6	107	6485	10.50				10.50			
	UNII 7	171	6805	10.50				10.50			
802.11ax HE80 (SISO)	UNII 8	227	7085	13.00				13.00			
	UNII 5	7	5985	12.00				12.00			
	UNII 5	71	6305	12.00				12.00			
	UNII 6	119	6545	13.00				13.00			
802.11ax HE80 (SISO)	UNII 7	167	6785	13.00				13.00			
	UNII 8	215	7025	15.50				15.50			

Burst Average Power (dBm)											
6GHz Mode (CDD/SDM)	Band	Channel	Frequency (MHz)	Maximum power		Index 7		Index 8		Index 9	
				Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	UNII 5	1	5955	5.50	5.50	5.50	5.50			5.50	5.50
	UNII 5	57	6235	5.50	5.50	5.50	5.50			5.50	5.50
	UNII 6	113	6515	7.50	7.50	7.50	7.50			7.50	7.50
	UNII 7	173	6815	7.50	7.50	7.50	7.50			7.50	7.50
802.11ax HE20 (MIMO)	UNII 5	1	5955	6.50	6.50	6.50	6.50			6.50	6.50
	UNII 5	57	6235	6.50	6.50	6.50	6.50			6.50	6.50
	UNII 6	113	6515	7.50	7.50	7.50	7.50			7.50	7.50
	UNII 7	173	6815	7.50	7.50	7.50	7.50			7.50	7.50
802.11ax HE40 (MIMO)	UNII 5	3	5965	9.50	9.50	9.50	9.50			9.50	9.50
	UNII 5	59	6245	9.50	9.50	9.50	9.50			9.50	9.50
	UNII 6	107	6485	10.50	10.50	10.50	10.50			10.50	10.50
	UNII 7	171	6805	10.50	10.50	10.50	10.50			10.50	10.50
802.11ax HE80 (MIMO)	UNII 8	227	7085	13.00	13.00	13.00	13.00			13.00	13.00
	UNII 5	7	5985	12.00	12.00	12.00	12.00			12.00	12.00
	UNII 5	71	6305	12.00	12.00	12.00	12.00			12.00	12.00
	UNII 6	119	6545	13.00	13.00	13.00	13.00			13.00	13.00
802.11ax HE80 (MIMO)	UNII 7	167	6785	13.00	13.00	13.00	13.00			13.00	13.00
	UNII 8	215	7025	15.50	15.50	14.50	14.50			14.00	14.00

<Bluetooth Maximum Power>
General Note:

- The device implements the power management for Bluetooth SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases. Full details about the proprietary power management decision are illustrated in the operational description.

Burst Average Power (dBm)												
Bluetooth Mode	Channel	Frequency (MHz)	Maximum power		Index 1		Index 2		Index 3		Index 4	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
BR / EDR 1Mbps (SISO)	0	2402	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	39	2441	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	78	2480	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
BR / EDR 2Mbps (SISO)	0	2402	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
	39	2441	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
	78	2480	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
BR / EDR 3Mbps (SISO)	0	2402	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
	39	2441	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
	78	2480	19.00	19.00	13.00	11.00	19.00	19.00	16.50	15.00	13.00	12.50
LE 1Mbps (SISO)	0	2402	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	19	2440	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	39	2480	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
LE 2Mbps (SISO)	1	2404	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	19	2440	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
	38	2478	21.00	21.00	13.00	11.00	21.00	20.00	16.50	15.00	13.00	12.50
BLE CS GFSK 1Mbps (SISO)	2	2404	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	38	2440	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	76	2478	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
BLE CS GFSK 2Mbps (SISO)	2	2404	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	38	2440	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	76	2478	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
BLE CS ASK 1Mbps (SISO)	2	2404	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	38	2440	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	76	2478	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
BLE CS ASK 2Mbps (SISO)	2	2404	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	38	2440	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50
	76	2478	20.00	20.00	13.00	11.00	20.00	20.00	16.50	15.00	13.00	12.50

2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	A4RGUJ0N																																																																												
Equipment Name	Phone																																																																												
Operating Frequency Range of each LTE transmission band	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																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																													
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																																						
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																																							
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																						
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																						
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description.																																																																												
LTE Carrier Aggregation Combinations	The UL CA include in parent model GPQQ7 part 1 SAR Report section 12																																																																												
LTE Carrier Aggregation Additional Information	Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA																																																																												



FCC SAR TEST REPORT

Report No. : FA5N0811-01B

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407		824.7		20415	825.5	20425	826.5		20450		829
M	20525		836.5		20525	836.5	20525	836.5		20525		836.5
H	20643		848.3		20635	847.5	20625	846.5		20600		844
LTE Band 7												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505			20825	2507.5		20850		2510
M	21100	2535	21100	2535			21100	2535		21100		2535
H	21425	2567.5	21400	2565			21375	2562.5		21350		2560
LTE Band 12												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5			23035	701.5		23060		704
M	23095	707.5	23095	707.5			23095	707.5		23095		707.5
H	23173	715.3	23165	714.5			23115	713.5		23130		711
LTE Band 13												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23205			779.5	23230		23230		782			
M	23230			782								
H	23255			784.5								
LTE Band 14												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23305			790.5	23330		23330		793			
M	23330			793								
H	23355			795.5								
LTE Band 17												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23755			706.5			23780					709
M	23790			710			23790					710
H	23825			713.5			23800					711
LTE Band 25												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819			26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5			26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844			26965	841.5



LTE Band 30												
	Bandwidth 5MHz				Bandwidth 10MHz							
	Ch. #		Freq. (MHz)		Ch. #				Freq. (MHz)			
L	27685		2307.5		27710				2310			
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
LMM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
HMM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LMM	55810	3607	55815	3607.5	55820	3608	55830	3609				
M	55990	3625	55990	3625	55990	3625	55990	3625				
HMM	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4MHz		Bandwidth 3MHz		Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				

**2.4 General 5G NR SAR Test and Reporting Considerations**

5G NR Information	
FCC ID	A4RGUJ0N
Equipment Name	Phone
Operating Frequency Range of each 5G NR transmission band	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 n13 : 777 MHz ~ 787 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 n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78 : 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 35MHz, 40MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz, 50MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n13: 5MHz, 10MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n38: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz, 45MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz 5G NR n77/n78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Band 2	FR1 n2/5/7/12/25/30/38/41/66/71/77/78
LTE Anchor Band 4	FR1 n2/7/38/41/78
LTE Anchor Band 5	FR1 n2/7/30/38/41/66/77/78
LTE Anchor Band 7	FR1 n2/5/12/25/26/66/71/77/78
LTE Anchor Band 12	FR1 n2/7/25/30/38/41/66/77/78
LTE Anchor Band 13	FR1 n2/7/25/66/77/78
LTE Anchor Band 14	FR1 n2/30/66/77
LTE Anchor Band 25	FR1 n41/77/78
LTE Anchor Band 26	FR1 n41/78
LTE Anchor Band 30	FR1 n2/5/66/77
LTE Anchor Band 38	FR1 n78
LTE Anchor Band 41	FR1 n77/78
LTE Anchor Band 48	FR1 n2/5/12/25/66/71
LTE Anchor Band 66	FR1 n2/5/7/12/25/38/41/66/71/77/78
LTE Anchor Band 71	FR1 n2/7/38/41/66/77/78



TEL : 886-3-327-3456
FAX : 886-3-328-4978
Template version: 240125



FCC SAR TEST REPORT

Report No. : FA5N0811-01B

FR1 n41																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640
FR1 n66																								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730	346500	1732.5						
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745						
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760	351500	1757.5						
FR1 n71																								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678												
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5												
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683												
FR1 n77 (27Q)																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		
FR1 n77 (27O)																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.5	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
FR1 n78 (27Q)																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		
FR1 n78 (27O)																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

3. TAS feature for RF Exposure compliance

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR regulatory specifications are defined over certain measurement duration allowing for time-averaging. The MediaTek TA-SAR v2 algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

Pmax	Maximum Tx power that can be transmitted physically from RFIC for a given RAT
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure
PD_FCC_limit	PD limit specified by FCC, 10 W/m ² averaged over 4 cm ²
Plimit	The time-averaged RF power that corresponds to SAR_target or PD_target.

SAR Characterization – Power Table
General Note:

1. Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.
2. All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM& LTE TDD & NR TDD).
3. The max allowed output power is the Plimit + device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

<P_{limit} for supported technologies and bands>

Wireless Tech.	Band	Mode	Antenna	Duty cycle	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)
					ECI 2	ECI 3	ECI 6	ECI 4	ECI 5	
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
					P limit					
					Time-average power (dBm)					
GSM	B850	1TX	Ant0	12.50%	25.90	24.30	21.20	21.20	21.20	23.50
GPRS	B850	1TX	Ant0	12.50%	25.90	24.30	21.20	21.20	21.20	23.50
GPRS	B850	2TX	Ant0	25.00%	25.90	24.30	21.20	21.20	21.20	25.30
GPRS	B850	3TX	Ant0	37.50%	25.90	24.30	21.20	21.20	21.20	26.10
GPRS	B850	4TX	Ant0	50.00%	25.90	24.30	21.20	21.20	21.20	26.30
EGPRS	B850	1TX	Ant0	12.50%	25.90	24.30	21.20	21.20	21.20	17.30
EGPRS	B850	2TX	Ant0	25.00%	25.90	24.30	21.20	21.20	21.20	19.30
EGPRS	B850	3TX	Ant0	37.50%	25.90	24.30	21.20	21.20	21.20	20.10
EGPRS	B850	4TX	Ant0	50.00%	25.90	24.30	21.20	21.20	21.20	20.30
GSM	B850	1TX	Ant1	12.50%	23.40	22.30	24.00	25.10	24.00	23.10
GPRS	B850	1TX	Ant1	12.50%	23.40	22.30	24.00	25.10	24.00	23.10
GPRS	B850	2TX	Ant1	25.00%	23.40	22.30	24.00	25.10	24.00	25.30
GPRS	B850	3TX	Ant1	37.50%	23.40	22.30	24.00	25.10	24.00	26.10
GPRS	B850	4TX	Ant1	50.00%	23.40	22.30	24.00	25.10	24.00	26.30
EGPRS	B850	1TX	Ant1	12.50%	23.40	22.30	24.00	25.10	24.00	17.10
EGPRS	B850	2TX	Ant1	25.00%	23.40	22.30	24.00	25.10	24.00	19.30
EGPRS	B850	3TX	Ant1	37.50%	23.40	22.30	24.00	25.10	24.00	20.10
EGPRS	B850	4TX	Ant1	50.00%	23.40	22.30	24.00	25.10	24.00	20.30
GSM	B1900	1TX	Ant2	12.50%	24.70	24.70	18.50	19.90	18.50	20.50
GPRS	B1900	1TX	Ant2	12.50%	24.70	24.70	18.50	19.90	18.50	20.50
GPRS	B1900	2TX	Ant2	25.00%	24.70	24.70	18.50	19.90	18.50	21.90
GPRS	B1900	3TX	Ant2	37.50%	24.70	24.70	18.50	19.90	18.50	23.20
GPRS	B1900	4TX	Ant2	50.00%	24.70	24.70	18.50	19.90	18.50	23.40
EGPRS	B1900	1TX	Ant2	12.50%	24.70	24.70	18.50	19.90	18.50	16.40
EGPRS	B1900	2TX	Ant2	25.00%	24.70	24.70	18.50	19.90	18.50	18.40
EGPRS	B1900	3TX	Ant2	37.50%	24.70	24.70	18.50	19.90	18.50	19.20
EGPRS	B1900	4TX	Ant2	50.00%	24.70	24.70	18.50	19.90	18.50	19.40
GSM	B1900	1TX	Ant0	12.50%	36.30	36.30	16.10	16.80	16.10	19.60
GPRS	B1900	1TX	Ant0	12.50%	36.30	36.30	16.10	16.80	16.10	19.60
GPRS	B1900	2TX	Ant0	25.00%	36.30	36.30	16.10	16.80	16.10	21.20
GPRS	B1900	3TX	Ant0	37.50%	36.30	36.30	16.10	16.80	16.10	22.50
GPRS	B1900	4TX	Ant0	50.00%	36.30	36.30	16.10	16.80	16.10	22.70
EGPRS	B1900	1TX	Ant0	12.50%	36.30	36.30	16.10	16.80	16.10	15.60
EGPRS	B1900	2TX	Ant0	25.00%	36.30	36.30	16.10	16.80	16.10	17.70
EGPRS	B1900	3TX	Ant0	37.50%	36.30	36.30	16.10	16.80	16.10	18.50
EGPRS	B1900	4TX	Ant0	50.00%	36.30	36.30	16.10	16.80	16.10	18.70
WCDMA	B2	PC3	Ant2	100.00%	25.90	25.90	18.70	20.10	18.70	24.00
WCDMA	B2	PC3	Ant0	100.00%	35.90	35.90	12.90	14.30	12.90	24.00
WCDMA	B4	PC3	Ant2	100.00%	26.70	26.70	19.30	20.40	19.30	24.00
WCDMA	B4	PC3	Ant0	100.00%	34.40	34.40	13.60	15.00	13.60	24.00
WCDMA	B5	PC3	Ant0	100.00%	28.70	28.70	20.90	20.90	20.90	24.20



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WCDMA	B5	PC3	Ant1	100.00%	22.70	22.70	23.10	23.50	23.10	24.20
LTE	B2	PC3	Ant2	100.00%	26.00	26.00	18.30	19.70	18.30	24.00
LTE	B2	PC3	Ant0	100.00%	37.30	37.30	13.10	14.50	13.10	24.00
LTE	B2	PC3	Ant1	100.00%	18.50	17.40	18.60	19.30	18.60	24.00
LTE	B2	PC3	Ant5	100.00%	17.30	16.10	16.40	17.70	16.40	24.00
LTE	B4	PC3	Ant2	100.00%	26.50	26.50	19.30	20.60	19.30	24.00
LTE	B4	PC3	Ant0	100.00%	34.00	34.00	13.70	15.00	13.70	24.00
LTE	B4	PC3	Ant1	100.00%	17.70	17.00	21.60	22.40	21.60	24.00
LTE	B4	PC3	Ant5	100.00%	17.60	16.90	16.60	19.40	16.60	23.70
LTE	B5 / 5B	PC3	Ant0	100.00%	28.00	27.30	20.50	21.20	20.50	24.10
LTE	B5 / 5B	PC3	Ant1	100.00%	21.30	20.50	22.50	23.20	22.50	24.10
LTE	B7 / 7C	PC3	Ant2	100.00%	22.80	21.60	15.90	17.30	15.90	24.00
LTE	B7 / 7C	PC3	Ant0	100.00%	32.90	32.90	14.00	16.30	14.00	24.00
LTE	B12	PC3	Ant0	100.00%	29.60	28.90	22.30	25.30	22.30	24.10
LTE	B12	PC3	Ant1	100.00%	22.50	21.80	24.10	25.40	24.10	24.10
LTE	B13	PC3	Ant0	100.00%	30.00	29.30	20.70	22.40	20.70	24.10
LTE	B13	PC3	Ant1	100.00%	24.10	22.50	22.50	25.90	22.50	24.10
LTE	B14	PC3	Ant0	100.00%	29.90	29.20	21.90	22.40	21.90	24.10
LTE	B14	PC3	Ant1	100.00%	22.30	21.60	21.60	23.40	21.60	24.10
LTE	B17	PC3	Ant0	100.00%	29.60	28.90	22.30	25.30	22.30	24.10
LTE	B17	PC3	Ant1	100.00%	22.50	21.80	24.10	25.40	24.10	24.10
LTE	B25	PC3	Ant2	100.00%	26.00	26.00	18.30	19.70	18.30	24.00
LTE	B25	PC3	Ant0	100.00%	37.30	37.30	13.10	14.50	13.10	24.00
LTE	B25	PC3	Ant1	100.00%	18.50	17.40	18.60	19.30	18.60	24.00
LTE	B25	PC3	Ant5	100.00%	17.30	16.10	16.40	17.70	16.40	24.00
LTE	B26	PC3	Ant0	100.00%	28.00	27.30	20.50	21.20	20.50	24.10
LTE	B26	PC3	Ant1	100.00%	21.30	20.50	22.50	23.20	22.50	24.10
LTE	B30	PC3	Ant2	100.00%	24.30	23.20	16.30	17.70	16.30	23.60
LTE	B30	PC3	Ant0	100.00%	34.20	34.20	14.60	16.00	14.60	22.90
LTE	B38 / 38C	PC3	Ant2	63.30%	23.30	21.50	16.20	17.50	16.20	22.00
LTE	B38	PC2	Ant2	43.30%	23.30	21.50	16.20	17.50	16.20	22.30
LTE	B38 / 38C	PC3	Ant0	63.30%	35.30	35.30	14.60	17.20	14.60	21.90
LTE	B38	PC2	Ant0	43.30%	35.30	35.30	14.60	17.20	14.60	22.30
LTE	B38 / 38C	PC3	Ant1	63.30%	17.10	16.40	17.10	19.50	17.10	22.00
LTE	B38	PC2	Ant1	43.30%	17.10	16.40	17.10	19.50	17.10	22.30
LTE	B38 / 38C	PC3	Ant5	63.30%	15.50	14.60	15.40	16.90	15.40	22.00
LTE	B38	PC2	Ant5	43.30%	15.50	14.60	15.40	16.90	15.40	22.30
LTE	B41 / 41C	PC3	Ant2	63.30%	23.30	21.50	16.20	17.50	16.20	22.00
LTE	B41	PC2	Ant2	43.30%	23.30	21.50	16.20	17.50	16.20	22.30
LTE	B41 / 41C	PC3	Ant0	63.30%	35.30	35.30	14.60	17.20	14.60	21.90
LTE	B41	PC2	Ant0	43.30%	35.30	35.30	14.60	17.20	14.60	22.30
LTE	B41 / 41C	PC3	Ant1	63.30%	17.10	16.40	17.10	19.50	17.10	22.00
LTE	B41	PC2	Ant1	43.30%	17.10	16.40	17.10	19.50	17.10	22.30
LTE	B41 / 41C	PC3	Ant5	63.30%	15.50	14.60	15.40	16.90	15.40	22.00
LTE	B41	PC2	Ant5	43.30%	15.50	14.60	15.40	16.90	15.40	22.30
LTE	B48	PC3	Ant6	63.30%	27.00	27.00	14.80	16.20	14.80	18.30
LTE	B48	PC3	Ant7	63.30%	25.10	25.10	14.30	15.70	14.30	17.30
LTE	B48	PC3	Ant1	63.30%	17.00	15.90	15.90	17.80	15.90	18.50
LTE	B48	PC3	Ant5	63.30%	15.70	14.60	17.90	19.30	17.90	19.80
LTE	B66 / 66C / 66B	PC3	Ant2	100.00%	26.50	26.50	19.30	20.60	19.30	24.00
LTE	B66 / 66C / 66B	PC3	Ant0	100.00%	34.00	34.00	13.70	15.00	13.70	24.00
LTE	B66 / 66C / 66B	PC3	Ant1	100.00%	17.70	17.00	21.60	22.40	21.60	24.00
LTE	B66 / 66C / 66B	PC3	Ant5	100.00%	17.60	16.90	16.60	19.40	16.60	23.70
LTE	B71	PC3	Ant0	100.00%	30.30	29.60	22.00	24.90	22.00	24.10
LTE	B71	PC3	Ant1	100.00%	23.60	22.60	23.10	26.90	23.10	24.10
NR	n2	PC3	Ant2	100.00%	26.60	26.60	19.50	20.40	19.50	24.00



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NR	n2	PC3	Ant0	100.00%	38.20	38.20	14.30	15.40	14.30	24.00
NR	n2	PC3	Ant1	100.00%	18.40	17.60	19.10	19.80	19.10	24.00
NR	n2	PC3	Ant5	100.00%	17.40	16.00	16.60	18.00	16.60	24.00
NR	n5	PC3	Ant0	100.00%	28.60	27.90	21.20	21.30	21.20	24.10
NR	n5	PC3	Ant1	100.00%	22.20	21.10	23.00	23.70	23.00	24.10
NR	n7	PC3	Ant2	100.00%	23.10	22.40	16.10	17.50	16.10	24.00
NR	n7	PC3	Ant0	100.00%	32.80	32.80	15.00	16.40	15.00	24.00
NR	n12	PC3	Ant0	100.00%	30.30	29.50	23.10	25.10	23.10	24.10
NR	n12	PC3	Ant1	100.00%	23.60	22.90	24.00	26.80	24.00	24.10
NR	n13	PC3	Ant0	100.00%	29.30	28.60	20.60	22.10	20.60	24.10
NR	n13	PC3	Ant1	100.00%	23.90	22.80	22.80	25.90	22.80	24.10
NR	n14	PC3	Ant0	100.00%	28.90	28.20	21.90	21.90	21.90	24.10
NR	n14	PC3	Ant1	100.00%	22.00	21.20	21.60	24.00	21.60	24.10
NR	n25	PC3	Ant2	100.00%	26.60	26.60	19.50	20.40	19.50	24.00
NR	n25	PC3	Ant0	100.00%	38.20	38.20	14.30	15.40	14.30	24.00
NR	n25	PC3	Ant1	100.00%	18.40	17.60	19.10	19.80	19.10	24.00
NR	n25	PC3	Ant5	100.00%	17.40	16.00	16.60	18.00	16.60	24.00
NR	n26	PC3	Ant0	100.00%	28.60	27.90	21.20	21.30	21.20	24.10
NR	n26	PC3	Ant1	100.00%	22.20	21.10	23.00	23.70	23.00	24.10
NR	n30	PC3	Ant2	100.00%	25.10	23.20	16.90	18.30	16.90	23.60
NR	n30	PC3	Ant0	100.00%	34.90	34.90	14.60	16.00	14.60	23.60
NR	n38	PC3	Ant2	100.00%	22.80	21.90	16.50	18.00	16.50	24.00
NR	n38	PC3	Ant0	100.00%	33.00	33.00	14.60	16.00	14.60	23.90
NR	n38	PC3	Ant1	100.00%	17.00	16.30	16.40	18.70	16.40	24.00
NR	n38	PC3	Ant5	100.00%	14.70	13.30	14.20	16.30	14.20	24.00
NR	n41 / n41C / n41B	PC3	Ant2	100.00%	22.80	21.90	16.50	18.00	16.50	24.00
NR	n41	PC2	Ant2	50.00%	22.80	21.90	16.50	18.00	16.50	22.90
NR	n41	PC1P5	Ant2	25.00%	22.80	21.90	16.50	18.00	16.50	19.90
NR	n41 / n41C / n41B	PC3	Ant0	100.00%	32.90	32.90	14.60	16.00	14.60	23.90
NR	n41	PC2	Ant0	50.00%	32.90	32.90	14.60	16.00	14.60	22.90
NR	n41	PC1P5	Ant0	25.00%	32.90	32.90	14.60	16.00	14.60	19.90
NR	n41 / n41C / n41B	PC3	Ant1	100.00%	17.00	16.30	16.40	18.70	16.40	24.00
NR	n41	PC2	Ant1	50.00%	17.00	16.30	16.40	18.70	16.40	22.90
NR	n41	PC1P5	Ant1	25.00%	17.00	16.30	16.40	18.70	16.40	19.90
NR	n41 / n41C / n41B	PC3	Ant5	100.00%	14.70	13.30	14.20	16.30	14.20	24.00
NR	n41	PC2	Ant5	50.00%	14.70	13.30	14.20	16.30	14.20	22.90
NR	n41	PC1P5	Ant5	25.00%	14.70	13.30	14.20	16.30	14.20	19.90
NR	n66	PC3	Ant2	100.00%	26.90	26.90	19.50	20.70	19.50	24.00
NR	n66	PC3	Ant0	100.00%	36.00	36.00	14.20	15.50	14.20	24.00
NR	n66	PC3	Ant1	100.00%	18.80	18.10	21.70	22.40	21.70	24.00
NR	n66	PC3	Ant5	100.00%	18.80	17.40	17.30	19.20	17.30	24.00
NR	n71	PC3	Ant0	100.00%	30.30	29.60	21.90	25.30	21.90	24.10
NR	n71	PC3	Ant1	100.00%	23.50	22.70	23.80	25.20	23.80	24.10
NR	n77 / n77C	PC3	Ant6	100.00%	24.70	24.00	14.70	16.10	14.70	24.10
NR	n77	PC2	Ant6	50.00%	24.70	24.00	14.70	16.10	14.70	23.10
NR	n77	PC1P5	Ant6	25.00%	24.70	24.00	14.70	16.10	14.70	20.10
NR	n77 / n77C	PC3	Ant7	100.00%	25.20	22.20	14.10	15.50	14.10	23.60
NR	n77	PC2	Ant7	50.00%	25.20	22.20	14.10	15.50	14.10	22.60
NR	n77	PC1P5	Ant7	25.00%	25.20	22.20	14.10	15.50	14.10	19.60
NR	n77 / n77C	PC3	Ant1	100.00%	15.00	14.20	13.40	15.30	13.40	24.00
NR	n77	PC2	Ant1	50.00%	15.00	14.20	13.40	15.30	13.40	23.00
NR	n77	PC1P5	Ant1	25.00%	15.00	14.20	13.40	15.30	13.40	20.00
NR	n77 / n77C	PC3	Ant5	100.00%	15.00	13.40	16.70	18.10	16.70	23.60
NR	n77	PC2	Ant5	50.00%	15.00	13.40	16.70	18.10	16.70	22.60
NR	n77	PC1P5	Ant5	25.00%	15.00	13.40	16.70	18.10	16.70	19.60
NR	n78	PC3	Ant6	100.00%	24.70	24.00	14.70	16.10	14.70	24.10



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NR	n78	PC2	Ant6	50.00%	24.70	24.00	14.70	16.10	14.70	23.10
NR	n78	PC1P5	Ant6	25.00%	24.70	24.00	14.70	16.10	14.70	20.10
NR	n78	PC3	Ant7	100.00%	25.20	22.20	14.10	15.50	14.10	23.60
NR	n78	PC2	Ant7	50.00%	25.20	22.20	14.10	15.50	14.10	22.60
NR	n78	PC1P5	Ant7	25.00%	25.20	22.20	14.10	15.50	14.10	19.60
NR	n78	PC3	Ant1	100.00%	15.00	14.20	13.40	15.30	13.40	24.00
NR	n78	PC2	Ant1	50.00%	15.00	14.20	13.40	15.30	13.40	23.00
NR	n78	PC1P5	Ant1	25.00%	15.00	14.20	13.40	15.30	13.40	20.00
NR	n78	PC3	Ant5	100.00%	15.00	13.40	16.70	18.10	16.70	23.20
NR	n78	PC2	Ant5	50.00%	15.00	13.40	16.70	18.10	16.70	22.20
NR	n78	PC1P5	Ant5	25.00%	15.00	13.40	16.70	18.10	16.70	19.20
NTN	B23	PC3	Ant5	100.00%				19.10		23.10
NTN	B255	PC3	Ant5	100.00%				19.70		23.10

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.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

4.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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

5. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- 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
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

6. Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

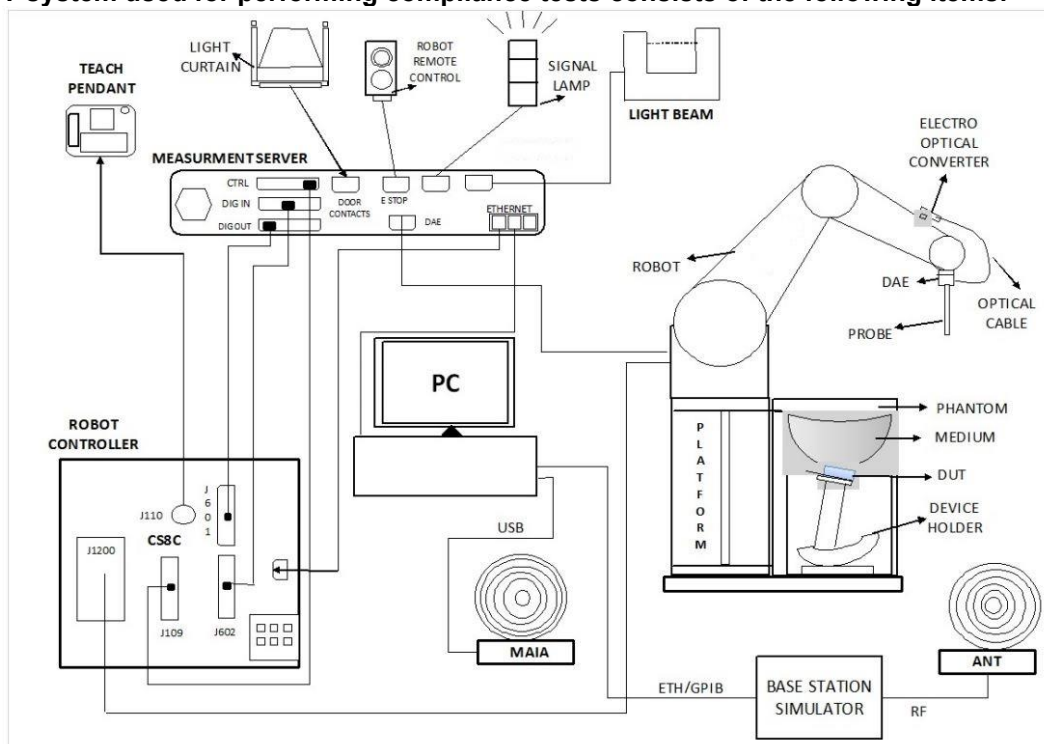
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory					
Test Site Location	TW1190		TW3786					
	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan					
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY	SAR18-HY	SAR21-HY	
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY	
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-HY		

7.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

< ES3DV3 Probe >

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – > 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

< EX3DV4 Probe >

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – > 6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

7.3 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.



Fig 5.1 Photo of DAE

7.4 Phantom

< SAM Twin Phantom >

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

< ELI Phantom >

Shell Thickness	2 ± 0.2 mm (sagging: < 1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

7.5 Device Holder

< Mounting Device for Hand-Held Transmitter >

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

< Mounting Device for Laptops and other Body-Worn Transmitters >

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

- (a) Configure the device RF transmitters to be in continuous transmission mode., at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

8.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.



9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1117	Mar. 12, 2025	Mar. 11, 2026
SPEAG	750MHz System Validation Kit	D750V3	1107	Jun. 11, 2025	Jun. 10, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d060	Feb. 17, 2025	Feb. 16, 2026
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d060	Feb. 17, 2025	Feb. 15, 2027
SPEAG	835MHz System Validation Kit	D835V2	4d167	Dec. 02, 2025	Dec. 01, 2026
SPEAG	1640MHz System Validation Kit	D1640V2	346	Aug. 14, 2025	Aug. 13, 2026
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Feb. 20, 2025	Feb. 18, 2027
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Feb. 20, 2025	Feb. 19, 2026
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d041	Aug. 15, 2024	Aug. 13, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Jun. 11, 2025	Jun. 10, 2026
SPEAG	2000MHz System Validation Kit ⁽²⁾	D2000V2	1070	Mar. 13, 2025	Mar. 11, 2027
SPEAG	2000MHz System Validation Kit	D2000V2	1010	Dec. 04, 2025	Dec. 03, 2026
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 14, 2025	Jan. 12, 2027
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 14, 2025	Jan. 13, 2026
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	736	Aug. 15, 2024	Aug. 13, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 12, 2025	Nov. 11, 2026
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1008	Aug. 15, 2024	Aug. 13, 2026
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 15, 2025	Jan. 13, 2027
SPEAG	3500MHz System Validation Kit	D3500V2	1014	Jan. 15, 2025	Jan. 14, 2026
SPEAG	3700MHz System Validation Kit	D3700V2	1006	Jun. 12, 2025	Jun. 11, 2026
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1092	May. 15, 2023	May. 12, 2026
SPEAG	3900MHz System Validation Kit	D3900V2	1017	Apr. 22, 2025	Apr. 21, 2026
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1006	Oct. 15, 2024	Oct. 13, 2026
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 22, 2025	Oct. 21, 2026
SPEAG	5G Verification Source	10GHz	1020	Jan. 15, 2026	Jan. 14, 2027
SPEAG	13MHz System Validation Kit ⁽²⁾	CLA13	1011	Jul. 10, 2023	Jul. 07, 2026
SPEAG	Data Acquisition Electronics	DAE4ip	1800	Jun. 16, 2025	Jun. 15, 2026
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 19, 2025	Nov. 18, 2026
SPEAG	Data Acquisition Electronics	DAE4	1707	Nov. 20, 2025	Nov. 19, 2026
SPEAG	Data Acquisition Electronics	DAE4	1776	Feb. 13, 2026	Feb. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	778	Jan. 15, 2026	Jan. 14, 2027
SPEAG	Data Acquisition Electronics	DAE4	1776	Feb. 12, 2025	Feb. 11, 2026
SPEAG	Data Acquisition Electronics	DAE4	656	Jan. 15, 2026	Jan. 14, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Mar. 26, 2026	Mar. 25, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	Jun. 19, 2025	Jun. 18, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 23, 2025	Oct. 22, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 26, 2025	Nov. 25, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Dec. 09, 2025	Dec. 08, 2026
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9424	Mar. 12, 2026	Mar. 11, 2027
Testo	Hygro meter	608-H1	45196600	Nov. 04, 2025	Nov. 03, 2026
Testo	Hygro meter	608-H1	45207528	Nov. 04, 2025	Nov. 03, 2026
Anritsu	Radio Communication Analyzer	MT8821C	6201074414	Aug. 19, 2025	Aug. 18, 2026
Keysight	5G Wireless Test Platform	E7515B	MY59321595	Jun. 20, 2025	Jun. 19, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 14, 2025	Aug. 13, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1270	May. 19, 2025	May. 18, 2026
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 14, 2025	Jul. 13, 2026
Anritsu	Power Meter	ML2496A	2119003	Jul. 14, 2025	Jul. 13, 2026
R&S	Power Sensor	NRP8S	103999	Jan. 06, 2025	Jan. 05, 2026
Anritsu	Power Sensor	MA2411B	1911334	Jul. 14, 2025	Jul. 13, 2026
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 09, 2025	Jul. 08, 2026
Mini-Circuits	Power Amplifier	ZVE-3W-183+	031302302	Feb. 24, 2025	Feb. 23, 2026
Mini-Circuits	Power Amplifier	ZVE-3W-183+	072602118	Apr. 08, 2025	Apr. 07, 2026
Mini-Circuits	Power Amplifier	ZHL-42W+	715701915	May. 19, 2025	May. 18, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005-3	N/A	Note 1	

General Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta (σ)" and "Delta (ϵ_r)" can be relaxed to $\pm 10\%$

< Tissue Dielectric Parameter Check Results >

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.3	0.895	42.8	0.89	41.9	0.56	2.15	± 10.0	2026-01-12
750	22.5	0.898	42.7	0.89	41.9	0.90	1.91	± 10.0	2026-01-18
750	22.9	0.915	42.5	0.89	41.9	2.81	1.43	± 10.0	2026-01-19
750	22.6	0.886	42.3	0.89	41.9	-0.45	0.95	± 10.0	2026-02-06
750	22.8	0.901	42.6	0.89	41.9	1.24	1.67	± 10.0	2026-02-08
750	22.5	0.886	42.3	0.89	41.9	-0.45	0.95	± 10.0	2026-02-20
750	22.2	0.891	42.5	0.89	41.9	0.11	1.43	± 10.0	2026-03-02
750	22.3	0.893	42.4	0.89	41.9	0.34	1.19	± 10.0	2026-03-11
750	22.6	0.883	42.3	0.89	41.9	-0.79	0.95	± 10.0	2026-03-16
750	22.5	0.871	45.1	0.89	41.9	-2.13	7.64	± 10.0	2026-04-05
835	22.5	0.908	42.1	0.9	41.5	0.89	1.45	± 10.0	2026-01-05
835	22.3	0.925	42.5	0.9	41.5	2.78	2.41	± 10.0	2026-01-12
835	22.5	0.928	42.5	0.9	41.5	3.11	2.41	± 10.0	2026-01-18
835	22.9	0.942	42.3	0.9	41.5	4.67	1.93	± 10.0	2026-01-19
835	22.6	0.914	42.4	0.9	41.5	1.56	2.17	± 10.0	2026-02-06
835	22.8	0.939	42.6	0.9	41.5	4.33	2.65	± 10.0	2026-02-11
835	22.5	0.915	42.1	0.9	41.5	1.67	1.45	± 10.0	2026-02-20
835	22.2	0.921	42.3	0.9	41.5	2.33	1.93	± 10.0	2026-03-02
835	22.3	0.923	42.1	0.9	41.5	2.56	1.45	± 10.0	2026-03-11
835	22.7	0.914	42.5	0.9	41.5	1.56	2.41	± 10.0	2026-03-12
835	22.2	0.912	42.0	0.9	41.5	1.33	1.20	± 10.0	2026-03-14
835	22.4	0.924	44.8	0.9	41.5	2.67	7.95	± 10.0	2026-03-24
835	22.5	0.94	42.0	0.9	41.5	4.44	1.20	± 10.0	2026-03-28
835	22.5	0.901	44.9	0.9	41.5	0.11	8.19	± 10.0	2026-04-05
1640	22.1	1.3	43.0	1.31	40.23	-0.76	6.89	± 10.0	2026-03-21
1640	22.8	1.26	43.6	1.31	40.23	-3.82	8.38	± 10.0	2026-04-08
1750	22.5	1.35	43.4	1.37	40.1	-1.46	8.23	± 10.0	2026-01-03
1750	22.5	1.33	40.4	1.37	40.1	-2.92	0.75	± 10.0	2026-01-05
1750	22.5	1.36	41.4	1.37	40.1	-0.73	3.24	± 10.0	2026-01-06
1750	22.7	1.38	41.0	1.37	40.1	0.73	2.24	± 10.0	2026-01-07
1750	22.3	1.38	41.0	1.37	40.1	0.73	2.24	± 10.0	2026-01-13
1750	22.5	1.35	40.7	1.37	40.1	-1.46	1.50	± 10.0	2026-01-20
1750	22.8	1.38	40.8	1.37	40.1	0.73	1.75	± 10.0	2026-02-10
1750	22.6	1.35	40.4	1.37	40.1	-1.46	0.75	± 10.0	2026-02-18
1750	22.3	1.36	40.7	1.37	40.1	-0.73	1.50	± 10.0	2026-02-23
1750	22.2	1.31	43.1	1.37	40.1	-4.38	7.48	± 10.0	2026-02-26
1750	22.3	1.34	40.2	1.37	40.1	-2.19	0.25	± 10.0	2026-03-10
1750	22.2	1.37	40.8	1.37	40.1	0.00	1.75	± 10.0	2026-03-12
1750	22.7	1.35	40.8	1.37	40.1	-1.46	1.75	± 10.0	2026-03-12
1750	22.6	1.38	40.1	1.37	40.1	0.73	0.00	± 10.0	2026-03-17
1750	22.5	1.39	40.1	1.37	40.1	1.46	0.00	± 10.0	2026-03-28
1900	22.5	1.44	43.2	1.4	40.0	2.86	8.00	± 10.0	2026-01-03
1900	22.5	1.41	40.1	1.4	40.0	0.71	0.25	± 10.0	2026-01-05
1900	22.7	1.45	40.7	1.4	40.0	3.57	1.75	± 10.0	2026-01-07
1900	22.3	1.45	40.8	1.4	40.0	3.57	2.00	± 10.0	2026-01-13
1900	22.5	1.45	40.5	1.4	40.0	3.57	1.25	± 10.0	2026-01-18
1900	22.5	1.43	40.4	1.4	40.0	2.14	1.00	± 10.0	2026-01-20
1900	22.8	1.46	40.6	1.4	40.0	4.29	1.50	± 10.0	2026-02-10
1900	22.6	1.42	40.1	1.4	40.0	1.43	0.25	± 10.0	2026-02-18
1900	22.3	1.44	40.4	1.4	40.0	2.86	1.00	± 10.0	2026-02-23



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1900	22.2	1.4	42.8	1.4	40.0	0.00	7.00	±10.0	2026-02-26
1900	22.3	1.43	40.3	1.4	40.0	2.14	0.75	±10.0	2026-03-03
1900	22.6	1.45	40.6	1.4	40.0	3.57	1.50	±10.0	2026-03-06
1900	22.3	1.42	40.0	1.4	40.0	1.43	0.00	±10.0	2026-03-10
1900	22.5	1.42	40.2	1.4	40.0	1.43	0.50	±10.0	2026-03-12
1900	22.2	1.42	40.0	1.4	40.0	1.43	0.00	±10.0	2026-03-14
1900	22.6	1.46	39.9	1.4	40.0	4.29	-0.25	±10.0	2026-03-17
1900	22.5	1.47	39.9	1.4	40.0	5.00	-0.25	±10.0	2026-03-28
2000	22.1	1.52	42.5	1.4	40.0	8.57	6.25	±10.0	2026-03-21
2000	22.8	1.47	43.1	1.4	40.0	5.00	7.75	±10.0	2026-04-08
2300	22.4	1.71	42.7	1.67	39.5	2.40	8.10	±10.0	2026-01-04
2300	22.5	1.78	40.3	1.67	39.5	6.59	2.03	±10.0	2026-01-16
2300	22.9	1.75	39.8	1.67	39.5	4.79	0.76	±10.0	2026-02-07
2300	22.6	1.71	39.6	1.67	39.5	2.40	0.25	±10.0	2026-02-18
2300	22.3	1.73	39.9	1.67	39.5	3.59	1.01	±10.0	2026-02-23
2300	22.2	1.73	40.0	1.67	39.5	3.59	1.27	±10.0	2026-03-12
2300	22.4	1.74	40.2	1.67	39.5	4.19	1.77	±10.0	2026-03-14
2600	22.4	1.94	42.3	1.96	39.0	-1.02	8.46	±10.0	2026-01-04
2600	22.3	1.97	39.6	1.96	39.0	0.51	1.54	±10.0	2026-01-12
2600	22.5	2.02	39.8	1.96	39.0	3.06	2.05	±10.0	2026-01-16
2600	22.8	1.93	39.1	1.96	39.0	-1.53	0.26	±10.0	2026-02-08
2600	22.8	1.97	39.5	1.96	39.0	0.51	1.28	±10.0	2026-02-10
2600	22.4	1.97	41.8	1.96	39.0	0.51	7.18	±10.0	2026-02-12
2600	22.4	1.95	39.5	1.96	39.0	-0.51	1.28	±10.0	2026-02-14
2600	22.7	1.97	39.6	1.96	39.0	0.51	1.54	±10.0	2026-02-15
2600	22.6	1.94	39.0	1.96	39.0	-1.02	0.00	±10.0	2026-02-18
2600	22.3	1.95	39.4	1.96	39.0	-0.51	1.03	±10.0	2026-03-03
2600	22.2	1.97	39.5	1.96	39.0	0.51	1.28	±10.0	2026-03-12
2600	22.7	1.96	41.0	1.96	39.0	0.00	5.13	±10.0	2026-04-08
3500	22.5	2.74	38.5	2.91	37.9	-5.84	1.58	±10.0	2026-01-06
3500	22.8	2.72	37.7	2.91	37.9	-6.53	-0.53	±10.0	2026-02-12
3500	22.8	2.74	38.0	2.91	37.9	-5.84	0.26	±10.0	2026-02-18
3500	22.4	2.72	38.2	2.91	37.9	-6.53	0.79	±10.0	2026-02-21
3500	22.4	2.75	38.3	2.91	37.9	-5.50	1.06	±10.0	2026-02-22
3500	22.3	2.69	40.7	2.91	37.9	-7.56	7.39	±10.0	2026-02-23
3500	22.4	2.71	39.6	2.91	37.9	-6.87	4.49	±10.0	2026-02-24
3500	22.6	2.74	39.7	2.91	37.9	-5.84	4.75	±10.0	2026-02-25
3500	22.2	2.75	37.9	2.91	37.9	-5.50	0.00	±10.0	2026-03-02
3500	22.8	2.73	37.1	2.91	37.9	-6.19	-2.11	±10.0	2026-03-18
3500	22.5	2.77	40.1	2.91	37.9	-4.81	5.80	±10.0	2026-03-19
3500	22.5	2.71	37.7	2.91	37.9	-6.87	-0.53	±10.0	2026-04-16
3500	22.7	2.72	37.9	2.91	37.9	-6.53	0.00	±10.0	2026-04-17
3700	22.5	2.92	38.2	3.12	37.7	-6.41	1.33	±10.0	2026-01-06
3700	22.8	2.9	37.4	3.12	37.7	-7.05	-0.80	±10.0	2026-02-12
3700	22.8	2.93	37.7	3.12	37.7	-6.09	0.00	±10.0	2026-02-18
3700	22.4	2.89	37.9	3.12	37.7	-7.37	0.53	±10.0	2026-02-21
3700	22.4	2.92	38.0	3.12	37.7	-6.41	0.80	±10.0	2026-02-22
3700	22.3	2.87	40.4	3.12	37.7	-8.01	7.16	±10.0	2026-02-23
3700	22.4	2.89	39.3	3.12	37.7	-7.37	4.24	±10.0	2026-02-24
3700	22.6	2.92	39.3	3.12	37.7	-6.41	4.24	±10.0	2026-02-25
3700	22.2	2.93	37.5	3.12	37.7	-6.09	-0.53	±10.0	2026-03-02
3700	22.8	2.91	36.8	3.12	37.7	-6.73	-2.39	±10.0	2026-03-18
3700	22.5	2.95	39.8	3.12	37.7	-5.45	5.57	±10.0	2026-03-19
3700	22.5	2.86	37.4	3.12	37.7	-8.33	-0.80	±10.0	2026-04-16
3700	22.7	2.9	37.6	3.12	37.7	-7.05	-0.27	±10.0	2026-04-17
3900	22.5	3.14	37.9	3.33	37.51	-5.71	1.04	±10.0	2026-01-06
3900	22.8	3.11	37.4	3.33	37.51	-6.61	-0.29	±10.0	2026-02-18
3900	22.4	3.09	37.6	3.33	37.51	-7.21	0.24	±10.0	2026-02-21
3900	22.4	3.11	37.7	3.33	37.51	-6.61	0.51	±10.0	2026-02-22
3900	22.3	3.06	40.2	3.33	37.51	-8.11	7.17	±10.0	2026-02-23
3900	22.4	3.08	39.0	3.33	37.51	-7.51	3.97	±10.0	2026-02-24
3900	22.6	3.1	39.1	3.33	37.51	-6.91	4.24	±10.0	2026-02-25
3900	22.2	3.1	37.2	3.33	37.51	-6.91	-0.83	±10.0	2026-03-02
3900	22.5	3.15	39.5	3.33	37.51	-5.41	5.31	±10.0	2026-03-19
3900	22.7	3.06	37.3	3.33	37.51	-8.11	-0.56	±10.0	2026-04-17



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Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
2450	22.5	1.860	40.100	1.80	39.20	3.33	2.30	±10.0	2026/2/20
2450	22.5	1.910	40.300	1.80	39.20	6.11	2.81	±10.0	2026/3/2
2450	22.5	1.770	39.500	1.80	39.20	-1.67	0.77	±10.0	2026/3/18
2450	22.3	1.850	39.700	1.80	39.20	2.78	1.28	±10.0	2026/3/23
2450	22.5	1.820	39.000	1.80	39.20	1.11	-0.51	±10.0	2026/3/27
5250	22.5	4.510	34.800	4.71	35.95	-4.25	-3.20	±10.0	2026/2/21
5250	22.5	4.540	34.900	4.71	35.95	-3.61	-2.92	±10.0	2026/2/27
5250	22.5	4.600	35.100	4.71	35.95	-2.34	-2.36	±10.0	2026/3/1
5250	22.5	4.510	34.600	4.71	35.95	-4.25	-3.76	±10.0	2026/3/17
5250	22.5	4.540	34.700	4.71	35.95	-3.61	-3.48	±10.0	2026/3/23
5600	22.5	4.930	34.100	5.07	35.50	-2.76	-3.94	±10.0	2026/2/21
5600	22.5	4.910	34.100	5.07	35.50	-3.16	-3.94	±10.0	2026/2/27
5600	22.5	4.980	34.400	5.07	35.50	-1.78	-3.10	±10.0	2026/3/1
5600	22.5	4.830	33.800	5.07	35.50	-4.73	-4.79	±10.0	2026/3/17
5600	22.5	4.880	33.900	5.07	35.50	-3.75	-4.51	±10.0	2026/3/23
5800	22.5	5.180	33.800	5.27	35.30	-1.71	-4.25	±10.0	2026/2/21
5800	22.5	5.160	33.800	5.27	35.30	-2.09	-4.25	±10.0	2026/2/27
5800	22.5	5.230	34.100	5.27	35.30	-0.76	-3.40	±10.0	2026/3/1
5800	22.5	5.170	33.400	5.27	35.30	-1.90	-5.38	±10.0	2026/3/17
5800	22.5	5.180	33.300	5.27	35.30	-1.71	-5.67	±10.0	2026/3/23
6500	22.5	6.110	32.700	6.07	34.50	0.66	-5.22	±10.0	2026/3/28
6500	22.5	6.040	32.800	6.07	34.50	-0.49	-4.93	±10.0	2026/3/29
6500	22.5	6.320	34.500	6.07	34.50	4.12	0.00	±10.0	2026/4/17
6500	22.5	6.240	34.200	6.07	34.50	2.80	-0.87	±10.0	2026/4/16
13	23.5	0.719	53.500	0.75	55.00	-4.13	-2.73	±10.0	2026/4/10



10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR18	2026-01-12	750	251.19	D750V3 - 1117	EX3DV4 - SN7814	DAE4 Sn1776	2.230	8.600	8.878	3.23	1.480	5.570	5.892	5.78
SAR18	2026-01-18	750	251.19	D750V3 - 1117	EX3DV4 - SN7814	DAE4 Sn1776	2.130	8.600	8.480	-1.40	1.420	5.570	5.653	1.49
SAR18	2026-01-19	750	251.19	D750V3 - 1117	EX3DV4 - SN7814	DAE4 Sn1776	2.270	8.600	9.037	5.08	1.510	5.570	6.011	7.92
SAR19	2026-02-06	750	251.19	D750V3 - 1117	EX3DV4 - SN7785	DAE4 Sn1707	2.000	8.600	7.962	-7.42	1.330	5.570	5.295	-4.94
SAR19	2026-02-08	750	251.19	D750V3 - 1117	EX3DV4 - SN7785	DAE4 Sn1707	2.260	8.600	8.997	4.62	1.520	5.570	6.051	8.64
SAR19	2026-02-20	750	251.19	D750V3 - 1117	EX3DV4 - SN7785	DAE4 Sn1707	2.180	8.600	8.679	0.91	1.450	5.570	5.773	3.64
SAR20	2026-03-02	750	251.19	D750V3 - 1117	EX3DV4 - SN7625	DAE4ip Sn1800	2.020	8.600	8.042	-6.49	1.340	5.570	5.335	-4.23
SAR19	2026-03-11	750	251.19	D750V3 - 1117	EX3DV4 - SN7785	DAE4 Sn1707	2.220	8.600	8.838	2.77	1.480	5.570	5.892	5.78
SAR19	2026-03-16	750	251.19	D750V3 - 1107	EX3DV4 - SN7785	DAE4 Sn1707	2.270	8.840	9.037	2.23	1.510	5.810	6.011	3.47
SAR21	2026-04-05	750	251.19	D750V3 - 1107	EX3DV4 - SN3728	DAE4 Sn1707	2.030	8.840	8.082	-8.58	1.330	5.810	5.295	-8.87
SAR18	2026-01-05	835	251.19	D835V2 - 4d060	EX3DV4 - SN7814	DAE4 Sn1776	2.430	9.280	9.674	4.25	1.600	6.010	6.370	5.98
SAR18	2026-01-12	835	251.19	D835V2 - 4d167	EX3DV4 - SN7814	DAE4 Sn1776	2.450	9.360	9.754	4.20	1.620	6.050	6.449	6.60
SAR18	2026-01-18	835	251.19	D835V2 - 4d167	EX3DV4 - SN7814	DAE4 Sn1776	2.460	9.360	9.793	4.63	1.620	6.050	6.449	6.60
SAR18	2026-01-19	835	251.19	D835V2 - 4d167	EX3DV4 - SN7814	DAE4 Sn1776	2.530	9.360	10.072	7.61	1.660	6.050	6.609	9.23
SAR19	2026-02-06	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.430	9.360	9.674	3.35	1.600	6.050	6.370	5.28
SAR19	2026-02-11	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.480	9.360	9.873	5.48	1.640	6.050	6.529	7.92
SAR19	2026-02-20	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.570	9.360	10.231	9.31	1.600	6.050	6.370	5.28
SAR20	2026-03-02	835	251.19	D835V2 - 4d167	EX3DV4 - SN7625	DAE4ip Sn1800	2.380	9.360	9.475	1.23	1.570	6.050	6.250	3.31
SAR19	2026-03-11	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.440	9.360	9.714	3.78	1.620	6.050	6.449	6.60
SAR20	2026-03-12	835	251.19	D835V2 - 4d167	EX3DV4 - SN7625	DAE4ip Sn1800	2.410	9.360	9.594	2.50	1.590	6.050	6.330	4.63
SAR19	2026-03-14	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.370	9.360	9.435	0.80	1.570	6.050	6.250	3.31
SAR19	2026-03-24	835	251.19	D835V2 - 4d167	EX3DV4 - SN7785	DAE4 Sn1707	2.550	9.360	10.152	8.46	1.670	6.050	6.648	9.89
SAR19	2026-03-28	835	251.19	D835V2 - 4d060	EX3DV4 - SN7785	DAE4 Sn1707	2.380	9.280	9.475	2.10	1.590	6.010	6.330	5.32
SAR21	2026-04-05	835	251.19	D835V2 - 4d060	EX3DV4 - SN3728	DAE4 Sn1707	2.390	9.280	9.515	2.53	1.540	6.010	6.131	2.01
SAR19	2026-03-21	1640	50.12	D1640V2 - 346	EX3DV4 - SN7785	DAE4 Sn1707	1.680	34.200	33.520	-1.99	0.905	18.600	18.057	-2.92
SAR19	2026-04-08	1640	50.12	D1640V2 - 346	EX3DV4 - SN7785	DAE4 Sn1707	1.700	34.200	33.919	-0.82	0.911	18.600	18.176	-2.28
SAR18	2026-01-03	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.820	36.300	36.313	0.04	0.960	19.300	19.154	-0.76
SAR18	2026-01-05	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.760	36.300	35.116	-3.26	0.929	19.300	18.536	-3.96
SAR18	2026-01-06	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.820	36.300	36.313	0.04	0.963	19.300	19.214	-0.45
SAR18	2026-01-07	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.820	36.300	36.313	0.04	0.968	19.300	19.314	0.07
SAR18	2026-01-13	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.820	36.300	36.313	0.04	0.965	19.300	19.254	-0.24
SAR18	2026-01-20	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn1776	1.800	36.300	35.914	-1.06	0.952	19.300	18.994	-1.58
SAR19	2026-02-10	1750	251.19	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	9.000	36.300	35.829	-1.30	4.830	19.300	19.228	-0.37
SAR19	2026-02-18	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.760	36.300	35.116	-3.26	0.937	19.300	18.695	-3.13
SAR19	2026-02-23	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.790	36.300	35.714	-1.61	0.950	19.300	18.955	-1.79
SAR18	2026-02-26	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7814	DAE4 Sn778	1.780	36.300	35.515	-2.16	0.935	19.300	18.655	-3.34
SAR19	2026-03-10	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.780	36.300	35.515	-2.16	0.949	19.300	18.935	-1.89
SAR19	2026-03-12	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.750	36.300	34.916	-3.81	0.935	19.300	18.655	-3.34
SAR20	2026-03-12	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7625	DAE4ip Sn1800	1.770	36.300	35.315	-2.71	0.940	19.300	18.755	-2.82
SAR19	2026-03-17	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.790	36.300	35.714	-1.61	0.959	19.300	19.134	-0.86
SAR19	2026-03-28	1750	50.12	D1750V2 - 1112	EX3DV4 - SN7785	DAE4 Sn1707	1.800	36.300	35.914	-1.06	0.962	19.300	19.194	-0.55
SAR18	2026-01-03	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7814	DAE4 Sn1776	1.880	39.600	37.510	-5.28	0.985	20.800	19.653	-5.52
SAR18	2026-01-05	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7814	DAE4 Sn1776	1.930	39.600	38.508	-2.76	0.997	20.800	19.892	-4.36
SAR18	2026-01-07	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7814	DAE4 Sn1776	2.030	39.600	40.503	2.28	1.050	20.800	20.950	0.72
SAR18	2026-01-13	1900	50.12	D1900V2 - 5d041	EX3DV4 - SN7814	DAE4 Sn1776	2.040	39.200	40.702	3.83	1.060	20.700	21.149	2.17
SAR18	2026-01-18	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7814	DAE4 Sn1776	2.020	39.600	40.303	1.78	1.050	20.800	20.950	0.72
SAR18	2026-01-20	1900	50.12	D1900V2 - 5d041	EX3DV4 - SN7814	DAE4 Sn1776	2.000	39.200	39.904	1.80	1.040	20.700	20.750	0.24
SAR19	2026-02-10	1900	251.19	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	10.400	39.600	41.403	4.55	5.430	20.800	21.617	3.93
SAR19	2026-02-18	1900	251.19	D1900V2 - 5d041	EX3DV4 - SN7785	DAE4 Sn1707	10.500	39.200	41.801	6.64	5.470	20.700	21.776	5.20
SAR19	2026-02-23	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	2.040	39.600	40.702	2.78	1.060	20.800	21.149	1.68
SAR18	2026-02-26	1900	50.12	D1900V2 - 5d041	EX3DV4 - SN7814	DAE4 Sn778	1.950	39.200	38.907	-0.75	1.010	20.700	20.152	-2.65
SAR19	2026-03-03	1900	50.12	D1900V2 - 5d041	EX3DV4 - SN7785	DAE4 Sn1707	2.040	39.200	40.702	3.83	1.060	20.700	21.149	2.17
SAR20	2026-03-06	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7625	DAE4ip Sn1800	1.990	39.600	39.705	0.26	1.040	20.800	20.750	-0.24
SAR19	2026-03-10	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	2.020	39.600	40.303	1.78	1.050	20.800	20.950	0.72
SAR22	2026-03-12	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN3931	DAE4 Sn1697	1.870	39.600	37.310	-5.78	0.982	20.800	19.593	-5.80
SAR19	2026-03-14	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	2.010	39.600	40.104	1.27	1.050	20.800	20.950	0.72
SAR19	2026-03-17	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	2.070	39.600	41.301	4.30	1.070	20.800	21.349	2.64
SAR19	2026-03-28	1900	50.12	D1900V2 - 5d185	EX3DV4 - SN7785	DAE4 Sn1707	2.070	39.600	41.301	4.30	1.080	20.800	21.548	3.60
SAR19	2026-03-21	2000	50.12	D2000V2 - 1070	EX3DV4 - SN7785	DAE4 Sn1707	2.100	41.000	41.899	2.19	1.070	21.300	21.349	0.23
SAR19	2026-04-08	2000	50.12	D2000V2 - 1010	EX3DV4 - SN7785	DAE4 Sn1707	2.090	41.000	41.700	1.71	1.070	21.500	21.349	-0.70
SAR18	2026-01-04	2300	251.19	D2300V2 - 1006	EX3DV4 - SN7814	DAE4 Sn1776	12.800	48.200	50.957	5.72	6.130	23.200	24.404	5.19
SAR18	2026-01-16	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7814	DAE4 Sn1776	2.510	48.200	50.080	3.90	1.200	23.200	23.943	3.20
SAR19	2026-02-07	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	2.480	48.200	49.481	2.66	1.190	23.200	23.743	2.34
SAR19	2026-02-18	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	2.420	48.200	48.284	0.17	1.160	23.200	23.144	-0.24



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SAR19	2026-02-23	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	2.480	48.200	49.481	2.66	1.190	23.200	23.743	2.34
SAR19	2026-03-12	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	2.420	48.200	48.284	0.17	1.160	23.200	23.144	-0.24
SAR20	2026-03-14	2300	50.12	D2300V2 - 1006	EX3DV4 - SN7625	DAE4ip Sn1800	2.470	48.200	49.282	2.24	1.170	23.200	23.344	0.62
SAR18	2026-01-04	2600	251.19	D2600V2 - 1008	EX3DV4 - SN7814	DAE4 Sn1776	13.900	55.700	55.337	-0.65	6.210	25.300	24.722	-2.28
SAR18	2026-01-12	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7814	DAE4 Sn1776	2.630	55.700	52.474	-5.79	1.180	25.300	23.543	-6.94
SAR18	2026-01-16	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7814	DAE4 Sn1776	2.700	55.700	53.871	-3.28	1.220	25.300	24.342	-3.79
SAR19	2026-02-08	2600	251.19	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	12.800	55.700	50.957	-8.51	5.790	25.300	23.050	-8.89
SAR19	2026-02-10	2600	251.19	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	13.100	55.700	52.152	-6.37	5.920	25.300	23.568	-6.85
SAR18	2026-02-12	2600	251.19	D2600V2 - 1008	EX3DV4 - SN7814	DAE4 Sn778	13.800	55.700	54.938	-1.37	6.200	25.300	24.683	-2.44
SAR19	2026-02-14	2600	46.77	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	2.480	55.700	53.025	-4.80	1.110	25.300	23.733	-6.19
SAR18	2026-02-15	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7814	DAE4 Sn778	2.650	55.700	52.873	-5.08	1.190	25.300	23.743	-6.15
SAR19	2026-02-18	2600	251.19	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	12.800	55.700	50.957	-8.51	5.770	25.300	22.971	-9.21
SAR19	2026-03-03	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	2.540	55.700	50.678	-9.02	1.150	25.300	22.945	-9.31
SAR19	2026-03-12	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7785	DAE4 Sn1707	2.560	55.700	51.077	-8.30	1.150	25.300	22.945	-9.31
SAR20	2026-04-08	2600	50.12	D2600V2 - 1008	EX3DV4 - SN7625	DAE4ip Sn1800	2.620	55.700	52.275	-6.15	1.180	25.300	23.543	-6.94
SAR18	2026-01-06	3500	100.00	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn1776	6.750	65.700	67.500	2.74	2.570	24.900	25.700	3.21
SAR19	2026-02-12	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7785	DAE4 Sn1707	3.310	65.700	66.042	0.52	1.270	24.900	25.339	1.76
SAR20	2026-02-18	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.230	65.700	64.445	-1.91	1.230	24.900	24.541	-1.44
SAR18	2026-02-21	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn778	3.210	65.700	64.046	-2.52	1.220	24.900	24.342	-2.24
SAR18	2026-02-22	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn778	3.330	65.700	66.441	1.13	1.270	24.900	25.339	1.76
SAR18	2026-02-23	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn778	3.270	65.700	65.243	-0.69	1.240	24.900	24.741	-0.64
SAR18	2026-02-24	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn778	3.240	65.700	64.645	-1.61	1.230	24.900	24.541	-1.44
SAR18	2026-02-25	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn778	3.230	65.700	64.445	-1.91	1.230	24.900	24.541	-1.44
SAR19	2026-03-02	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7785	DAE4 Sn1707	3.340	65.700	66.640	1.43	1.290	24.900	25.738	3.37
SAR19	2026-03-18	3500	100.00	D3500V2 - 1014	EX3DV4 - SN7785	DAE4 Sn1707	7.100	65.700	71.000	8.07	2.710	24.900	27.100	8.84
SAR19	2026-03-19	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7785	DAE4 Sn1707	3.350	65.700	66.840	1.73	1.280	24.900	25.539	2.57
SAR22	2026-04-16	3500	50.12	D3500V2 - 1014	EX3DV4 - SN3931	DAE4 Sn1697	3.020	65.700	60.255	-8.29	1.150	24.900	22.945	-7.85
SAR18	2026-04-17	3500	50.12	D3500V2 - 1014	EX3DV4 - SN7814	DAE4 Sn1776	3.380	65.700	67.438	2.65	1.290	24.900	25.738	3.37
SAR18	2026-01-06	3700	100.00	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn1776	6.870	69.900	68.700	-1.72	2.540	25.600	25.400	-0.78
SAR19	2026-02-12	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	3.470	69.900	69.234	-0.95	1.290	25.600	25.738	0.54
SAR20	2026-02-18	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.400	69.900	67.837	-2.95	1.250	25.600	24.940	-2.58
SAR18	2026-02-21	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn778	3.280	69.900	65.443	-6.38	1.220	25.600	24.342	-4.92
SAR18	2026-02-22	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn778	3.540	69.900	70.630	1.05	1.320	25.600	26.337	2.88
SAR18	2026-02-23	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn778	3.530	69.900	70.431	0.76	1.300	25.600	25.938	1.32
SAR18	2026-02-24	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn778	3.480	69.900	69.433	-0.67	1.290	25.600	25.738	0.54
SAR18	2026-02-25	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn778	3.480	69.900	69.433	-0.67	1.290	25.600	25.738	0.54
SAR19	2026-03-02	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	3.510	69.900	70.032	0.19	1.320	25.600	26.337	2.88
SAR19	2026-03-18	3700	100.00	D3700V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	7.460	69.900	74.600	6.72	2.770	25.600	27.700	8.20
SAR19	2026-03-19	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7785	DAE4 Sn1707	3.480	69.900	69.433	-0.67	1.290	25.600	25.738	0.54
SAR22	2026-04-16	3700	44.67	D3700V2 - 1006	EX3DV4 - SN3931	DAE4 Sn1697	3.090	69.900	69.174	-1.04	1.140	25.600	25.520	-0.31
SAR18	2026-04-17	3700	50.12	D3700V2 - 1006	EX3DV4 - SN7814	DAE4 Sn1776	3.530	69.900	70.431	0.76	1.310	25.600	26.137	2.10
SAR18	2026-01-06	3900	100.00	D3900V2 - 1017	EX3DV4 - SN7814	DAE4 Sn1776	6.710	70.200	67.100	-4.42	2.370	24.600	23.700	-3.66
SAR20	2026-02-18	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.130	67.000	62.450	-6.79	1.100	23.200	21.947	-5.40
SAR18	2026-02-21	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn778	3.260	67.000	65.044	-2.92	1.150	23.200	22.945	-1.10
SAR18	2026-02-22	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn778	3.240	67.000	64.645	-3.52	1.150	23.200	22.945	-1.10
SAR18	2026-02-23	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn778	3.300	67.000	65.842	-1.73	1.160	23.200	23.144	-0.24
SAR18	2026-02-24	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn778	3.220	67.000	64.246	-4.11	1.140	23.200	22.745	-1.96
SAR18	2026-02-25	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn778	3.360	67.000	67.039	0.06	1.190	23.200	23.743	2.34
SAR19	2026-03-02	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7785	DAE4 Sn1707	3.370	67.000	67.239	0.36	1.200	23.200	23.943	3.20
SAR19	2026-03-19	3900	251.19	D3900V2 - 1092	EX3DV4 - SN7785	DAE4 Sn1707	15.800	67.000	62.901	-6.12	5.630	23.200	22.413	-3.39
SAR18	2026-04-17	3900	50.12	D3900V2 - 1092	EX3DV4 - SN7814	DAE4 Sn1776	3.280	67.000	65.443	-2.32	1.160	23.200	23.144	-0.24

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR-18	2026/2/20	2450	47.42	D2450V2-929	EX3DV4 - SN3931	DAE4 Sn1697	2.510	53.300	52.931	-0.69	1.170	25.200	24.673	-2.09
SAR-18	2026/3/2	2450	50	D2450V2-736	EX3DV4 - SN3931	DAE4 Sn1697	2.670	51.400	53.400	3.89	1.260	24.200	25.200	4.13
SAR-18	2026/3/18	2450	50	D2450V2-929	EX3DV4 - SN3931	DAE4 Sn1697	2.450	53.300	49.000	-8.07	1.150	25.200	23.000	-8.73
SAR-19	2026/3/23	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4ip Sn1800	2.580	53.300	51.600	-3.19	1.200	25.200	24.000	-4.76
SAR-18	2026/3/27	2450	50	D2450V2-736	EX3DV4 - SN3931	DAE4 Sn1697	2.530	51.400	50.6	-1.56	1.190	24.200	23.8	-1.65
SAR-18	2026/2/21	5250	47.53	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn1697	3.540	80.600	74.479	-7.59	1.020	22.800	21.460	-5.88
SAR-18	2026/2/27	5250	49.43	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn1697	3.600	80.600	72.830	-9.64	1.050	22.800	21.242	-6.83
SAR-18	2026/3/1	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn1697	3.750	80.600	75.000	-6.95	1.080	22.800	21.600	-5.26
SAR-18	2026/3/17	5250	49	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn1697	3.620	80.600	73.878	-8.34	1.030	22.800	21.020	-7.81
SAR-18	2026/3/23	5250	48	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn1697	3.550	80.600	73.958	-8.24	1.030	22.800	21.458	-5.88
SAR-18	2026/2/21	5600	47.1	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn1697	3.740	83.400	79.406	-4.79	1.070	23.700	22.718	-4.15
SAR-18	2026/2/27	5600	49.43	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn1697	3.860	83.400	78.090	-6.37	1.110	23.700	22.456	-5.25
SAR-18	2026/3/1	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn1697	4.030	83.400	80.600	-3.36	1.150	23.700	23.000	-2.95
SAR-18	2026/3/17	5600	49	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn1697	3.800	83.400	77.551	-7.01	1.070	23.700	21.837	-7.86
SAR-18	2026/3/23	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn1697	3.940	83.400	78.800	-5.52	1.130	23.700	22.600	-4.64
SAR-18	2026/2/21	5800	47.67	D5GHzV2-1006-5800	EX3DV4 - SN3931	DAE4 Sn1697	3.560	80.600	74.680	-7.34	1.010	22.700	21.187	-6.66
SAR-18	2026/2/27	5800	48.87	D5GHzV2-1006-5800	EX3DV4 - SN3931	DAE4 Sn1697	3.740	80.600	76.530	-5.05	1.070	22.700	21.895	-3.55
SAR-18	2026/3/1	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN3931	DAE4 Sn1697	3.950	80.600	79.000	-1.99	1.110	22.700	22.200	-2.20
SAR-18	2026/3/17	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN3931	DAE4 Sn1697	3.720	80.600	74.400	-7.69	1.050	22.700	21.000	-7.49
SAR-18	2026/3/23	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN3931	DAE4 Sn1697	4.130	80.600	82.600	2.48	1.180	22.700	23.600	3.96
SAR-18	2026/3/28	6500	100	D6.5GHzV2-1083	EX3DV4 - SN3931	DAE4 Sn1697	30.500	302.000	305	0.99	5.620	56.500	56.2	-0.53
SAR-18	2026/3/29	6500	100	D6.5GHzV2-1083	EX3DV4 - SN3931	DAE4 Sn1697	30.000	302.000	300	-0.66	5.510	56.500	55.1	-2.48
SAR-19	2026/4/17	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7625	DAE4ip Sn1800	32.600	302.000	326	7.95	6.060	56.500	60.6	7.26
SAR-19	2026/4/16	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7625	DAE4ip Sn1800	31.900	302.000	319	5.63	5.940	56.500	59.4	5.13
SAR-18	2026/4/10	13	1000	CLA13-1011	EX3DV4 - SN3931	DAE4 Sn1697	0.499	0.544	0.499	-8.27	0.309	0.340	0.309	-9.12

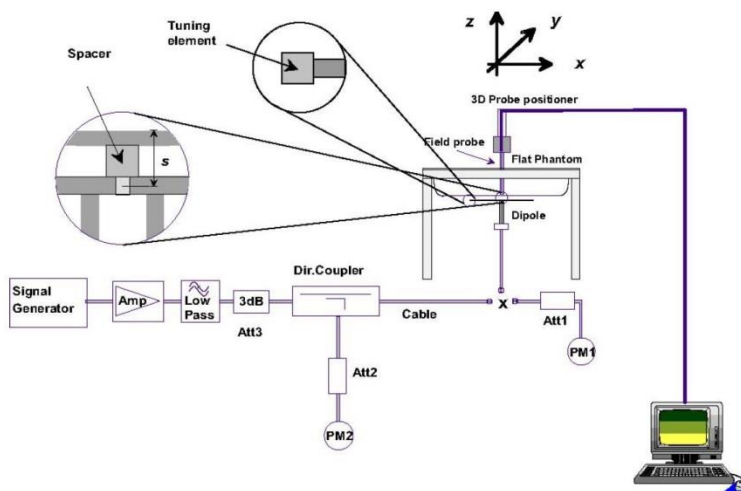


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

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
SAR14	10G	10GHz_1020	EUmmWV3 - SN9424	DAE4 Sn656	10mm	55.4	54.6	0.06	2026/4/1
SAR14	10G	10GHz_1020	EUmmWV3 - SN9424	DAE4 Sn656	10mm	55.6	54.6	0.08	2026/4/8

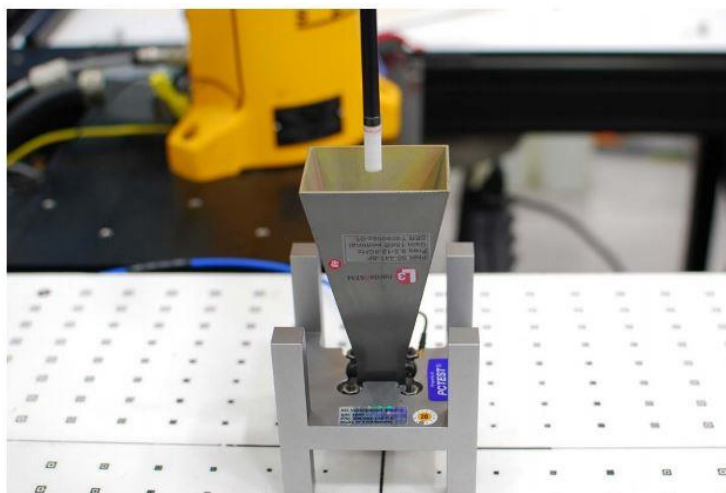


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

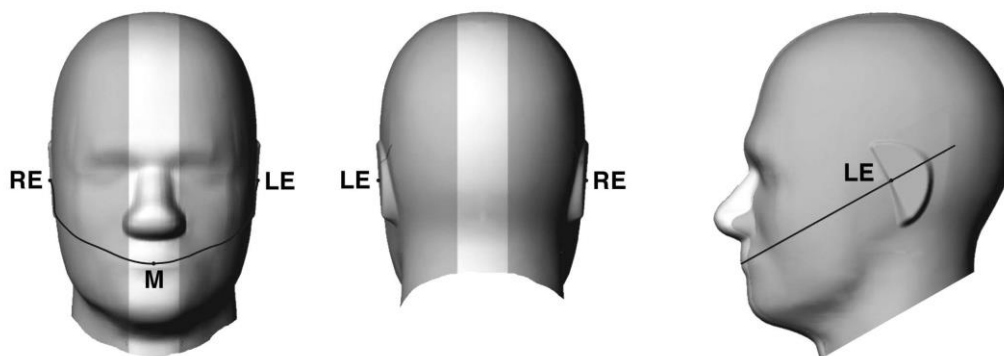


Fig 9.1.1 Front, back, and side views of SAM twin phantom

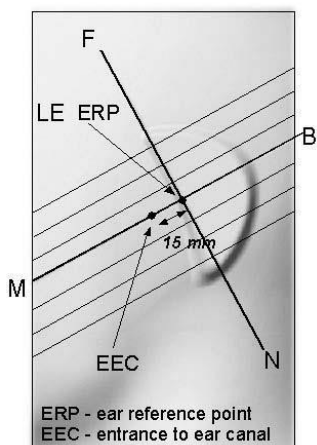


Fig 9.1.2 Close-up side view of phantom showing the ear region.

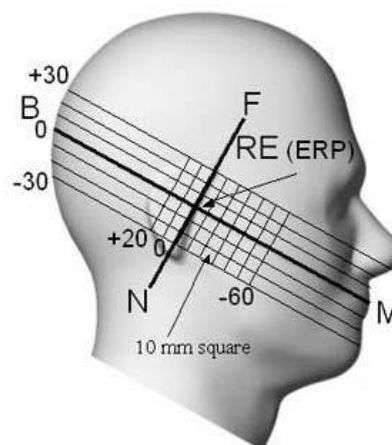


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

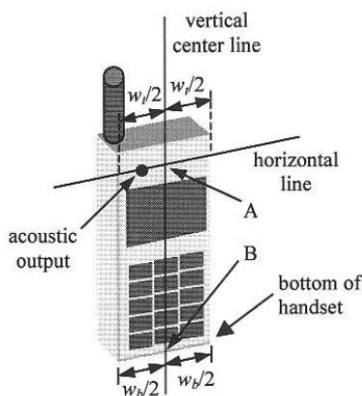


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

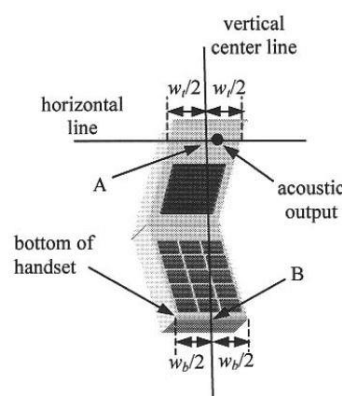


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

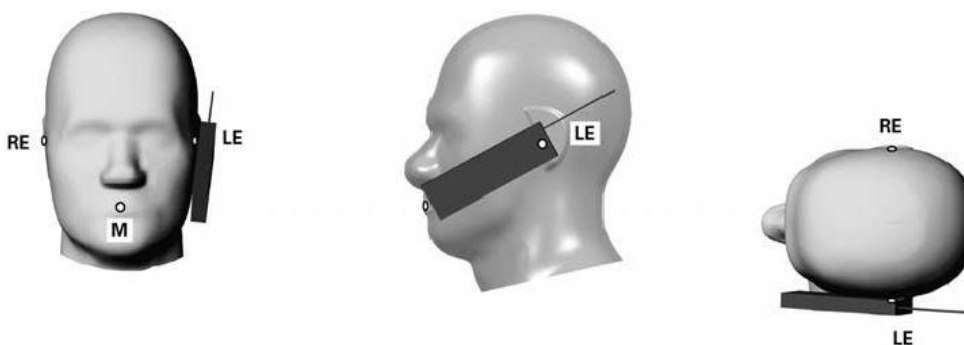


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

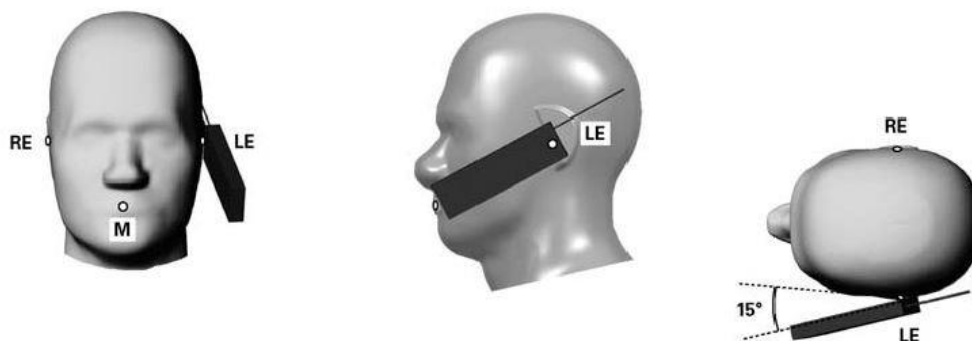


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

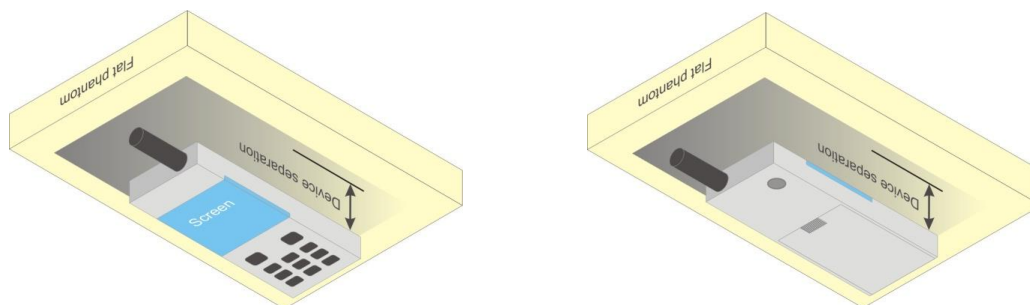


Fig 9.4 Body Worn Position



11.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

12. Data Reuse Approach

FCC ID: A4RGPQQ7 (Parent model) and FCC ID: A4RGUJ0N (variant model)

- **PCB:** The PCB layout is identical with parent model.
- **Component Positions:** The position of the components on the PCB is not changed
- **Enclosure, Materials, and From Factor:** the Enclosure, Materials, and From Factor are exactly the same

Due to the same design are identical between parent model and variant model, SAR data reuse is requested and spot check data in this report is used to justify the SAR data reuse.

Per KDB 484596 D01v03, compare parent model and variant model SAR result, the all wireless band $d_{TER} \leq d_{TERmax}$, the max SAR summary are identical with parent model.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: A4RGUJ0N

<Model Difference Information>

A4RGPQQ7 and A4RGUJ0N use the identical internal printed circuit board layout, and the major differences which may relate to RF are listed below:

- Depopulated mmW module.

The details of similarity and difference can be found in the confidential documents.

<Data Referencing Table>

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	FCC ID (Parent Model)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Test on the variant
Part 2.1093 SAR	DXX	NFC	13.56	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
	DSS	Bluetooth	2400~2483.5	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
	DTS	BLE WiFi	2400~2483.5	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
	NII	Wi-Fi	5150 ~ 5250 5250 ~ 5350 5470 ~ 5725 5725 ~ 5850 5850 ~ 5895	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
	6CD / 6VL	Wi-Fi	5925 ~ 6425 6425 ~ 6525 6525 ~ 6875 6875 ~ 7125	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Full Test
	PCE CBE	GSM	850/1900	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
		WCDMA	B2/4/5	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
		LTE	B2/4/5/7/12/13/14/17/25/26/30/38/41/48/66/71	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
		5G FR1	n2/5/7/12/13/14/25/26/30/38/41/66/71/77/78	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check
		NTN	B23/255	A4RGPQQ7	Original Grant	FA5N0809-01C	A4RGUJ0N	Spot check



13. Spot Check SAR Results

General Note:

- SAR spot check verification on the worst cases from the original model was performed to demonstrate the test data from parent model remains representative for the variant model.

1st as parent model

2nd as variant model

13.1 Head SAR

Plot No	No.	Band	BW	Modulation/ Mode	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	GSM850	-	GPRS 4Tx slots	-	-	Left Cheek	0mm	Ant 0	ECI 2	189	836.4	29.22	29.9	1.169			0.13	0.502	0.587
01	2nd	GSM850	-	GPRS 4Tx slots	-	-	Left Cheek	0mm	Ant 0	ECI 2	189	836.4	29.22	29.9	1.169			0.02	0.438	0.512
	1st	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	ECI 2	56150	3641	18.95	20	1.274	62.9	1.006	0.01	0.775	0.993
02	2nd	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	ECI 2	56150	3641	18.95	20	1.274	62.9	1.006	0.11	0.609	0.781
	1st	FR1 n26	20M	BPSK	50	56	Right Cheek	0mm	Ant 1	ECI 2	166300	831.5	22.12	23.2	1.282			0.05	0.763	0.978
03	2nd	FR1 n26	20M	BPSK	50	56	Right Cheek	0mm	Ant 1	ECI 2	166300	831.5	22.12	23.2	1.282			0.01	0.757	0.970
	1st	FR1 n77	100M	BPSK	135	0	Right Cheek	0mm	Ant 1	ECI 2	656000	3840	14.01	16	1.581			0.04	0.573	0.906
04	2nd	FR1 n77	100M	BPSK	135	0	Right Cheek	0mm	Ant 1	ECI 2	656000	3840	14.01	16	1.581			-0.1	0.454	0.718
	1st	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 2	20850	2510	22.34	23.8	1.400			0.08	0.688	0.963
05	2nd	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 2	20850	2510	22.34	23.8	1.400			0.01	0.654	0.916
	1st	LTE Band 25	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	ECI 2	26590	1905	16.89	18.3	1.384			-0.13	0.707	0.978
06	2nd	LTE Band 25	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	ECI 2	26590	1905	16.89	18.3	1.384			-0.12	0.658	0.911
	1st	LTE Band 48	20M	QPSK	50	50	Left Cheek	0mm	Ant 5	ECI 2	56640	3690	17.22	18.7	1.406	62.9	1.006	-0.14	0.640	0.905
07	2nd	LTE Band 48	20M	QPSK	50	50	Left Cheek	0mm	Ant 5	ECI 2	56640	3690	17.22	18.7	1.406	62.9	1.006	-0.13	0.491	0.694
	1st	FR1 n77	100M	BPSK	1	271	Left Cheek	0mm	Ant 5	ECI 2	633332	3500	15.17	16	1.211			0.15	0.569	0.689
08	2nd	FR1 n77	100M	BPSK	1	271	Left Cheek	0mm	Ant 5	ECI 2	633332	3500	15.17	16	1.211			-0.16	0.556	0.673
	1st	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	ECI 2	56150	3641	20.57	21.3	1.183	62.9	1.006	-0.13	0.361	0.430
09	2nd	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	ECI 2	56150	3641	20.57	21.3	1.183	62.9	1.006	0.12	0.342	0.407
	1st	FR1 n77	100M	QPSK	1	1	Left Cheek	0mm	Ant 6	ECI 2	656000	3840	24.1	25.1	1.259			-0.14	0.438	0.551
10	2nd	FR1 n77	100M	QPSK	1	1	Left Cheek	0mm	Ant 6	ECI 2	656000	3840	24.1	25.1	1.259			-0.05	0.438	0.551
	1st	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	ECI 2	56150	3641	18.99	20.3	1.352	62.9	1.006	-0.16	0.389	0.529
11	2nd	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	ECI 2	56150	3641	18.99	20.3	1.352	62.9	1.006	-0.15	0.251	0.341
	1st	FR1 n77	100M	QPSK	1	1	Right Cheek	0mm	Ant 7	ECI 2	633332	3500	23.93	24.6	1.167			-0.02	0.673	0.785
12	2nd	FR1 n77	100M	QPSK	1	1	Right Cheek	0mm	Ant 7	ECI 2	633332	3500	23.93	24.6	1.167			-0.13	0.651	0.760

Plot No	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 1	13	2472	15.48	16.00	1.127	100.00	1.000	0.09	0.973	1.097
13	2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 1	13	2472	15.48	16.00	1.127	100.00	1.000	-0.07	0.843	0.950
	1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	155	5775	15.47	15.50	1.007	97.98	1.021	-0.04	1.080	1.110
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	155	5775	14.67	15.50	1.211	97.98	1.021	-0.04	0.109	0.135
14	2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	155	5775	15.47	15.50	1.007	97.98	1.021	0.12	1.080	1.110
		WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	155	5775	14.67	15.50	1.211	97.98	1.021	0.12	0.147	0.182
	1st	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	BT Index 1	78	2480	12.94	13.00	1.014	77.07	1.081	0	0.210	0.230
15	2nd	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	BT Index 1	78	2480	12.94	13.00	1.014	77.07	1.081	-0.02	0.204	0.224

**13.2 Hotspot SAR**

Plot No	No.	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	FR1 n41	100M	BPSK	135	0	Bottom Edge	5mm	Ant 0	ECI 6	518598	2593	15.36	15.6	1.057	100	1.000	0.04	0.796	0.841
16	2nd	FR1 n41	100M	BPSK	135	0	Bottom Edge	5mm	Ant 0	ECI 6	518598	2593	15.36	15.6	1.057	100	1.000	-0.01	0.777	0.821
	1st	LTE Band 48	20M	QPSK	1	0	Left Edge	5mm	Ant 1	ECI 6	56150	3641	18.07	18.9	1.211	62.9	1.006	-0.06	0.514	0.626
17	2nd	LTE Band 48	20M	QPSK	1	0	Left Edge	5mm	Ant 1	ECI 6	56150	3641	18.07	18.9	1.211	62.9	1.006	-0.04	0.510	0.621
	1st	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 1	ECI 6	349000	1745	22.6	22.7	1.023	100	1.000	-0.05	0.817	0.836
18	2nd	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 1	ECI 6	349000	1745	22.6	22.7	1.023	100	1.000	0.01	0.801	0.819
	1st	FR1 n77	100M	BPSK	135	0	Left Edge	5mm	Ant 1	ECI 6	656000	3840	13.64	14.4	1.191	100	1.000	0.01	0.491	0.585
19	2nd	FR1 n77	100M	BPSK	135	0	Left Edge	5mm	Ant 1	ECI 6	656000	3840	13.64	14.4	1.191	100	1.000	-0.03	0.455	0.542
	1st	FR1 n25	40M	BPSK	108	0	Right Edge	5mm	Ant 2	ECI 6	376500	1882.5	20.1	20.5	1.096	100	1.000	-0.02	0.733	0.803
20	2nd	FR1 n25	40M	BPSK	108	0	Right Edge	5mm	Ant 2	ECI 6	376500	1882.5	20.1	20.5	1.096	100	1.000	0	0.731	0.801
	1st	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 6	55340	3560	20.58	20.9	1.076	62.9	1.006	0.13	0.652	0.706
21	2nd	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 6	55340	3560	20.58	20.9	1.076	62.9	1.006	0.13	0.611	0.661
	1st	FR1 n66	45M	BPSK	120	120	Right Edge	5mm	Ant 5	ECI 6	349000	1745	18.28	18.3	1.005	100	1.000	-0.01	0.841	0.845
22	2nd	FR1 n66	45M	BPSK	120	120	Right Edge	5mm	Ant 5	ECI 6	349000	1745	18.28	18.3	1.005	100	1.000	0.02	0.840	0.844
	1st	FR1 n77	100M	BPSK	1	271	Right Edge	5mm	Ant 5	ECI 6	656000	3840	17.7	17.7	1.000	100	1.000	-0.16	0.576	0.576
23	2nd	FR1 n77	100M	BPSK	1	271	Right Edge	5mm	Ant 5	ECI 6	656000	3840	17.7	17.7	1.000	100	1.000	0.01	0.558	0.558
	1st	LTE Band 48	20M	QPSK	50	0	Left Edge	5mm	Ant 6	ECI 6	55990	3625	17.63	17.8	1.040	62.9	1.006	-0.05	0.694	0.726
24	2nd	LTE Band 48	20M	QPSK	50	0	Left Edge	5mm	Ant 6	ECI 6	55990	3625	17.63	17.8	1.040	62.9	1.006	-0.1	0.617	0.646
	1st	FR1 n77	100M	BPSK	135	138	Left Edge	5mm	Ant 6	ECI 6	656000	3840	15.2	15.7	1.122	100	1.000	-0.05	0.507	0.569
25	2nd	FR1 n77	100M	BPSK	135	138	Left Edge	5mm	Ant 6	ECI 6	656000	3840	15.2	15.7	1.122	100	1.000	0.03	0.499	0.560
	1st	LTE Band 48	20M	QPSK	50	0	Right Edge	5mm	Ant 7	ECI 6	56150	3641	16.99	17.3	1.074	62.9	1.006	-0.09	0.777	0.840
26	2nd	LTE Band 48	20M	QPSK	50	0	Right Edge	5mm	Ant 7	ECI 6	56150	3641	16.99	17.3	1.074	62.9	1.006	-0.05	0.718	0.776
	1st	FR1 n77	100M	BPSK	1	137	Right Edge	5mm	Ant 7	ECI 6	633332	3500	14.98	15.1	1.028	100	1.000	-0.07	0.691	0.710
27	2nd	FR1 n77	100M	BPSK	1	137	Right Edge	5mm	Ant 7	ECI 6	633332	3500	14.98	15.1	1.028	100	1.000	-0.04	0.636	0.654

Plot No	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	WLAN2.4GHz	802.11g 6Mbps	Left Edge	5mm	Ant 4+3(4)	Index 7	6	2437	13.10	13.50	1.096	99.51	1.005	0	0.001	0.001
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	5mm	Ant 4+3(3)	Index 7	6	2437	12.26	13.50	1.330	99.51	1.005	0.14	0.283	0.378
28	2nd	WLAN2.4GHz	802.11g 6Mbps	Left Edge	5mm	Ant 4+3(4)	Index 7	6	2437	13.10	13.50	1.096	99.51	1.005	0	0.001	0.001
		WLAN2.4GHz	802.11g 6Mbps	Left Edge	5mm	Ant 4+3(3)	Index 7	6	2437	12.26	13.50	1.330	99.51	1.005	-0.01	0.265	0.354
	1st	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 4	Index 8	44	5220	16.44	17.00	1.138	99.51	1.005	-0.11	0.419	0.479
29	2nd	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 4	Index 8	44	5220	16.44	17.00	1.138	99.51	1.005	0.19	0.416	0.476
	1st	Bluetooth	1Mbps	Top Edge	5mm	Ant 4	BT Index 3	0	2402	16.29	16.50	1.050	77.07	1.081	-0.01	0.436	0.495
30	2nd	Bluetooth	1Mbps	Top Edge	5mm	Ant 4	BT Index 3	0	2402	16.29	16.50	1.050	77.07	1.081	-0.1	0.343	0.389

**13.3 Body-Worn SAR**

Plot No	No.	Band	BW	Modulation/ Mode	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	WCDMA IV	-	RMC 12.2Kbps	-	-	Back	5mm	Ant 0	ECI 4	1413	1732.6	14.32	16	1.472	100	1.000	-0.11	0.544	0.801
31	2nd	WCDMA IV	-	RMC 12.2Kbps	-	-	Back	5mm	Ant 0	ECI 4	1413	1732.6	14.32	16	1.472	100	1.000	-0.17	0.537	0.790
	1st	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 1	ECI 4	56640	3690	19.02	20.8	1.507	62.9	1.006	0.17	0.523	0.793
32	2nd	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 1	ECI 4	56640	3690	19.02	20.8	1.507	62.9	1.006	0.17	0.470	0.713
	1st	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 1	ECI 4	349000	1745	22.6	23.4	1.202	100	1.000	-0.05	0.817	0.982
33	2nd	FR1 n66	45M	BPSK	240	0	Back	5mm	Ant 1	ECI 4	349000	1745	22.6	23.4	1.202	100	1.000	0.01	0.801	0.963
	1st	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	656000	3840	14.69	16.3	1.449	100	1.000	0.19	0.502	0.727
34	2nd	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	656000	3840	14.69	16.3	1.449	100	1.000	0.14	0.441	0.639
	1st	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 4	518598	2593	17.34	19	1.466	100	1.000	-0.14	0.530	0.777
35	2nd	FR1 n41	100M	BPSK	1	137	Back	5mm	Ant 2	ECI 4	518598	2593	17.34	19	1.466	100	1.000	-0.11	0.516	0.756
	1st	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	55340	3560	20.58	22.3	1.486	62.9	1.006	0.13	0.652	0.975
36	2nd	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	55340	3560	20.58	22.3	1.486	62.9	1.006	0.13	0.611	0.913
	1st	FR1 n66	45M	BPSK	120	120	Back	5mm	Ant 5	ECI 4	349000	1745	19.23	20.2	1.250	100	1.000	-0.18	0.708	0.885
37	2nd	FR1 n66	45M	BPSK	120	120	Back	5mm	Ant 5	ECI 4	349000	1745	19.23	20.2	1.250	100	1.000	-0.11	0.691	0.864
	1st	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 4	633332	3500	17.7	19.1	1.380	100	1.000	-0.18	0.472	0.651
38	2nd	FR1 n77	100M	BPSK	1	271	Back	5mm	Ant 5	ECI 4	633332	3500	17.7	19.1	1.380	100	1.000	-0.07	0.407	0.562
	1st	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 6	ECI 4	55830	3609	17.7	19.2	1.413	62.9	1.006	-0.11	0.435	0.618
39	2nd	LTE Band 48	20M	QPSK	50	50	Back	5mm	Ant 6	ECI 4	55830	3609	17.7	19.2	1.413	62.9	1.006	-0.18	0.335	0.476
	1st	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 4	633332	3500	15.34	17.1	1.500	100	1.000	-0.04	0.403	0.605
40	2nd	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 4	633332	3500	15.34	17.1	1.500	100	1.000	-0.04	0.331	0.497
	1st	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI 4	55990	3625	17.3	18.7	1.380	62.9	1.006	-0.16	0.484	0.672
41	2nd	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	ECI 4	55990	3625	17.3	18.7	1.380	62.9	1.006	-0.11	0.393	0.546
	1st	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 4	633332	3500	14.99	16.5	1.416	100	1.000	-0.01	0.410	0.581
42	2nd	FR1 n77	100M	BPSK	135	0	Back	5mm	Ant 7	ECI 4	633332	3500	14.99	16.5	1.416	100	1.000	-0.17	0.364	0.515

Plot No	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1st	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Index 5	13	2472	16.59	18.00	1.384	100.00	1.000	0.01	0.807	1.117
43	2nd	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Index 5	13	2472	16.59	18.00	1.384	100.00	1.000	-0.02	0.794	1.099
	1st	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+3(4)	Index 5	159	5795	18.63	19.00	1.089	98.92	1.011	0.11	1.050	1.156
		WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+3(3)	Index 5	159	5795	17.35	19.00	1.462	98.92	1.011	0.11	0.645	0.953
44	2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+3(4)	Index 5	159	5795	18.63	19.00	1.089	98.92	1.011	0.11	1.050	1.156
		WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+3(3)	Index 5	159	5795	17.35	19.00	1.462	98.92	1.011	0.11	0.691	1.021
	1st	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	39	2441	18.90	20.00	1.288	77.05	1.081	-0.11	0.849	1.182
45	2nd	Bluetooth	1Mbps	Back	5mm	Ant 3	BT Index 2	39	2441	18.82	20.00	1.312	77.05	1.081	-0.01	0.772	1.095

13.4 Product Specific SAR

Plot No	No.	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1st	LTE Band 41	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	40185	2549.5	18.82	20.2	1.374	62.9	1.006	0.06	0.680	0.940
46	2nd	LTE Band 41	20M	QPSK	1	0	Bottom Edge	0mm	Ant 0	ECI 4	40185	2549.5	18.82	20.2	1.374	62.9	1.006	0.03	0.654	0.904
	1st	FR1 n14	10M	BPSK	1	0	Left Edge	0mm	Ant 1	ECI 4	158600	793	23.57	25	1.390	100	1.000	-0.04	1.460	2.029
47	2nd	FR1 n14	10M	BPSK	1	0	Left Edge	0mm	Ant 1	ECI 4	158600	793	23.57	25	1.390	100	1.000	-0.02	1.430	1.988
	1st	FR1 n66	45M	BPSK	120	120	Right Edge	0mm	Ant 5	ECI 4	349000	1745	19.23	20.2	1.250	100	1.000	-0.08	1.510	1.888
48	2nd	FR1 n66	45M	BPSK	120	120	Right Edge	0mm	Ant 5	ECI 4	349000	1745	19.23	20.2	1.250	100	1.000	-0.08	1.480	1.850
	1st	NTN Band 23	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	25600	2010	19.66	20.6	1.242	100	1.000	-0.01	1.980	2.459
49	2nd	NTN Band 23	3.75K	BPSK	1	46	Right Edge	0mm	Ant 5	ECI 4	25600	2010	19.66	20.6	1.242	100	1.000	-0.07	1.960	2.434

Plot No	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	165	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	Index 6	52	5260	18.38	19.00	1.153	99.51	1.005	-0.14	1.290	1.495
50	157	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	Index 6	52	5260	18.38	19.00	1.153	99.51	1.005	0.14	1.280	1.483

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Antenna	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1st	NFC	ASK	Top Edge	0mm	Ant 1	13.56	0.18	0.009	0.009
51	2nd	NFC	ASK	Top Edge	0mm	Ant 1	13.56	0.06	0.008	0.008

<Spot check compare result>
<ANT 0>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	GSM850	0.587	0.512	0.367	0.320	0.128	0.383	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n41	0.841	0.821	0.526	0.513	0.024	0.250	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	WCDMA IV	0.801	0.790	0.501	0.494	0.014	0.250	Pass
Product Specific Exposure Condition								
Equipment Class	Band	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 41	0.940	0.904	0.235	0.226	0.038	0.500	Pass

<ANT 1>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n26	0.978	0.970	0.611	0.606	0.008	0.250	Pass
PCE	FR1 n77	0.906	0.718	0.566	0.449	0.208	0.250	Pass
CBE	LTE Band 48	0.993	0.781	0.621	0.488	0.213	0.250	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n66	0.836	0.819	0.523	0.512	0.020	0.250	Pass
PCE	FR1 n77	0.585	0.542	0.366	0.339	0.074	0.384	Pass
CBE	LTE Band 48	0.626	0.621	0.391	0.388	0.008	0.359	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n66	0.982	0.963	0.614	0.602	0.019	0.250	Pass
PCE	FR1 n77	0.727	0.639	0.454	0.399	0.121	0.296	Pass
CBE	LTE Band 48	0.793	0.713	0.496	0.446	0.101	0.254	Pass
Product Specific Exposure Condition								
Equipment Class	Band	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n14	2.029	1.988	0.507	0.497	0.020	0.250	Pass

*Per KDB 484596 D01v03, the SAR relative difference between the variant and the parent model to 25% when the parent model SAR worst-case scenario is 0.8 W/kg or higher (that is, a TER margin M ≤ 0.5)

<ANT 2>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 7	0.963	0.916	0.602	0.573	0.049	0.250	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n25	0.803	0.801	0.502	0.501	0.002	0.250	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n41	0.777	0.756	0.486	0.473	0.027	0.264	Pass

<ANT 5>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	LTE Band 25	0.978	0.911	0.611	0.569	0.069	0.250	Pass
PCE	FR1 n77	0.689	0.673	0.431	0.421	0.023	0.319	Pass
CBE	LTE Band 48	0.905	0.694	0.566	0.434	0.233	0.250	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n66	0.845	0.844	0.528	0.528	0.001	0.250	Pass
PCE	FR1 n77	0.576	0.558	0.360	0.349	0.031	0.390	Pass
CBE	LTE Band 48	0.706	0.661	0.441	0.413	0.064	0.309	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n66	0.885	0.864	0.553	0.540	0.024	0.250	Pass
PCE	FR1 n77	0.651	0.562	0.407	0.351	0.137	0.343	Pass
CBE	LTE Band 48	0.975	0.913	0.609	0.571	0.064	0.250	Pass
Product Specific Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n66	1.888	1.850	0.472	0.463	0.020	0.278	Pass
TNB	NTN Band 23	2.459	2.434	0.615	0.609	0.010	0.250	Pass

**<ANT 6>**

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.551	0.551	0.344	0.344	0.000	0.406	Pass
CBE	LTE Band 48	0.430	0.407	0.269	0.254	0.053	0.481	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.569	0.560	0.356	0.350	0.016	0.394	Pass
CBE	LTE Band 48	0.726	0.646	0.454	0.404	0.110	0.296	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.605	0.497	0.378	0.311	0.179	0.372	Pass
CBE	LTE Band 48	0.618	0.476	0.386	0.298	0.230	0.364	Pass

<ANT 7>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.785	0.760	0.491	0.475	0.032	0.259	Pass
CBE	LTE Band 48	0.529	0.341	0.331	0.213	0.355	0.419	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.710	0.654	0.444	0.409	0.079	0.306	Pass
CBE	LTE Band 48	0.840	0.776	0.525	0.485	0.076	0.250	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
PCE	FR1 n77	0.581	0.515	0.363	0.322	0.114	0.387	Pass
CBE	LTE Band 48	0.672	0.546	0.420	0.341	0.188	0.330	Pass

<ANT 3+4>

Head Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
DTS	WLAN2.4GHz	1.097	0.950	0.686	0.594	0.134	0.250	Pass
NII	WLAN5GHz	1.110	1.110	0.694	0.694	0.000	0.250	Pass
DSS	Bluetooth	0.230	0.224	0.144	0.140	0.026	0.500	Pass
Hotspot Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
DTS	WLAN2.4GHz	0.378	0.354	0.236	0.221	0.063	0.500	Pass
NII	WLAN5GHz	0.479	0.476	0.299	0.298	0.006	0.451	Pass
DSS	Bluetooth	0.495	0.389	0.309	0.243	0.214	0.441	Pass
Body-Worn Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
DTS	WLAN2.4GHz	1.117	1.099	0.698	0.687	0.016	0.250	Pass
NII	WLAN5GHz	1.156	1.156	0.723	0.723	0.000	0.250	Pass
DSS	Bluetooth	1.182	1.095	0.739	0.684	0.074	0.250	Pass
Product Specific Exposure Condition								
Equipment Class	Band	Parent Model Reported 1g SAR (W/kg)	Variant Model Reported 1g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
NII	WLAN5GHz	1.495	1.483	0.374	0.371	0.008	0.376	Pass

<NFC>

Product Specific Exposure Condition								
Equipment Class	Band	Parent Model Reported 10g SAR (W/kg)	Variant Model Reported 10g SAR (W/kg)	TER _R	TER _V	d _{TER}	d _{TERmax}	Pass Criterion
DXX	NFC	0.009	0.008	0.002	0.002	0.111	0.500	Pass

Conclusion:

Per KDB 484596 D01v03, The spot check SAR results compare with parent model worst case result, all the wireless tech. $d_{TER} \leq d_{TERmax}$. Referring to the guidance SAR data reuse is justified.

14. WiFi Output Power (Unit: dBm)

General Note:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. 18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
7. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
8. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
9. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

WLAN6E(SP)_Index 1

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	5955		13.00		13.00		16.00	
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		171	6805		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	

WLAN6E(SP)_Index 2

	Mode	Channel	Frequency (MHz)	Ant 4		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	15.38	16.00	95.51
		57	6235	Not Required	16.00	Not Required
		173	6815		18.00	
	802.11ax-HE20 MCS0	1	5955		16.00	
		57	6235		16.00	
		173	6815		18.00	
	802.11ax-HE40 MCS0	3	5965		16.00	
		59	6245		16.00	
		171	6805		18.00	
	802.11ax-HE80 MCS0	7	5985		15.50	97.22
		71	6305	15.40	16.00	
		167	6785	16.02	18.00	

WLAN6E(SP)_Index 3

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	11.50	Not Required	11.50	Not Required	14.50	Not Required
		57	6235		11.50		11.50		14.50	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	5955		11.50		11.50		14.50	
		57	6235		11.50		11.50		14.50	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	5965		11.50		11.50		14.50	
		59	6245		11.50		11.50		14.50	
		171	6805		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	10.30	11.50	9.50	11.50	12.93	14.50	97.22
		71	6305	10.42	11.50	9.70	11.50	13.09	14.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	

WLAN6E(SP) Index 4

				Ant 4			Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	9.00	Not Required	Not Required	9.00	Not Required	9.00	Not Required	12.00	Not Required
		57	6235		9.00			9.00		9.00		12.00	
		173	6815		12.50			12.50		12.50		15.50	
	802.11ax-HE20 MCS0	1	5955		9.00			9.00		9.00		12.00	
		57	6235		9.00			9.00		9.00		12.00	
		173	6815		12.50			12.50		12.50		15.50	
	802.11ax-HE40 MCS0	3	5965		9.00			9.00		9.00		12.00	
		59	6245		9.00			9.00		9.00		12.00	
		171	6805		12.50			12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985	7.51	9.00	97.22	8.84	9.00	7.86	9.00	11.39	12.00	97.22
		71	6305	7.70	9.00		8.48	9.00	7.69	9.00	11.11	12.00	
		167	6785	10.86	12.50		11.68	12.50	11.99	12.50	14.85	15.50	

WLAN6E(SP) Index 5

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	5955		13.00		13.00		16.00	
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		171	6805		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	

WLAN6E(SP) Index 6

				Ant 4		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	17.00	95.51
		57	6235		17.00	Not Required
		173	6815		18.00	
	802.11ax-HE20 MCS0	1	5955		17.00	
		57	6235		17.00	
		173	6815		18.00	
	802.11ax-HE40 MCS0	3	5965		16.50	
		59	6245		17.00	
		171	6805		18.00	
	802.11ax-HE80 MCS0	7	5985		15.50	97.22
		71	6305	17.00	17.00	
		167	6785	16.02	18.00	

WLAN6E(SP) Index 7

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	5955		13.00		13.00		16.00	
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		171	6805		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	

WLAN6E(SP) Index 8

	Mode	Channel	Frequency (MHz)	Ant 4		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	15.38	16.00	95.51
		57	6235	Not Required	16.00	Not Required
		173	6815		14.00	
	802.11ax-HE20 MCS0	1	5955		16.00	
		57	6235		16.00	
		173	6815		14.00	
	802.11ax-HE40 MCS0	3	5965		16.00	
		59	6245		16.00	
		171	6805		14.00	
	802.11ax-HE80 MCS0	7	5985		15.50	97.22
		71	6305	15.00	16.00	
		167	6785	13.55	14.00	

WLAN6E(SP) Index 9

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE20 MCS0	1	5955		13.00		13.00		16.00	
		57	6235		13.00		13.00		16.00	
		173	6815		15.00		15.00		18.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		171	6805		15.00		15.00		18.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	

WLAN6E(LPI) Index 1

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required
		57	6235		10.00		10.00		13.00	
		113	6515		11.00		11.00		14.00	
		173	6815		11.00		11.00		14.00	
		233	7115		13.50		13.50		16.50	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	
		57	6235		10.50		10.50		13.50	
		113	6515		11.50		11.50		14.50	
		173	6815		11.50		11.50		14.50	
		233	7115		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		107	6485		13.50		13.50		16.50	
		171	6805		14.50		14.50		17.50	
		227	7085		16.00		16.00		19.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		119	6545	13.48	13.50	13.48	13.50	16.49	16.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	
		215	7025	17.50	17.50	16.83	17.50	20.19	20.50	

WLAN6E(LPI) Index 2

				Ant 4		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required
		57	6235		10.00	
		113	6515		11.00	
		173	6815		11.00	
		233	7115		13.50	
	802.11ax-HE20 MCS0	1	5955		10.50	
		57	6235		10.50	
		113	6515		11.50	
		173	6815		11.50	
		233	7115		14.00	
	802.11ax-HE40 MCS0	3	5965		13.50	
		59	6245		13.50	
		107	6485		14.50	
		171	6805		14.50	
		227	7085		16.00	
	802.11ax-HE80 MCS0	7	5985		15.50	
		71	6305		16.00	
		119	6545	16.05	17.00	97.22
		167	6785	Not Required	17.00	
		215	7025	16.35	18.00	

WLAN6E(LPI) Index 3

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required
		57	6235		10.00		10.00		13.00	
		113	6515		11.00		11.00		14.00	
		173	6815		11.00		11.00		14.00	
		233	7115		12.00		12.00		15.00	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	
		57	6235		10.50		10.50		13.50	
		113	6515		11.50		11.50		14.50	
		173	6815		11.50		11.50		14.50	
		233	7115		12.00		12.00		15.00	
	802.11ax-HE40 MCS0	3	5965		11.50		11.50		14.50	
		59	6245		11.50		11.50		14.50	
		107	6485		13.50		13.50		16.50	
		171	6805		14.50		14.50		17.50	
		227	7085		12.00		12.00		15.00	
	802.11ax-HE80 MCS0	7	5985	10.30	11.50	9.50	11.50	12.93	14.50	97.22
		71	6305	10.42	11.50	9.70	11.50	13.09	14.50	
		119	6545	13.48	13.50	13.48	13.50	16.49	16.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	
		215	7025	11.63	12.00	11.74	12.00	14.70	15.00	

WLAN6E(LPI) Index 4

	Mode	Channel	Frequency (MHz)	Ant 4			Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	9.00	Not Required	Not Required	9.00	Not Required	9.00	Not Required	12.00	Not Required
		57	6235		9.00			9.00		9.00		12.00	
		113	6515		10.00			10.00		10.00		13.00	
		173	6815		11.00			11.00		11.00		14.00	
		233	7115		11.50			11.50		11.50		14.50	
	802.11ax-HE20 MCS0	1	5955		9.00			9.00		9.00		12.00	
		57	6235		9.00			9.00		9.00		12.00	
		113	6515		10.00			10.00		10.00		13.00	
		173	6815		11.50			11.50		11.50		14.50	
		233	7115		11.50			11.50		11.50		14.50	
	802.11ax-HE40 MCS0	3	5965		9.00			9.00		9.00		12.00	
		59	6245		9.00			9.00		9.00		12.00	
		107	6485		10.00			10.00		10.00		13.00	
		171	6805		12.50			12.50		12.50		15.50	
		227	7085		11.50			11.50		11.50		14.50	
	802.11ax-HE80 MCS0	7	5985	7.51	9.00	97.22	8.84	9.00	7.86	9.00	11.39	12.00	97.22
		71	6305	7.70	9.00		8.48	9.00	7.69	9.00	11.11	12.00	
		119	6545	9.54	10.00		8.36	10.00	8.83	10.00	11.61	13.00	
		167	6785	10.86	12.50		11.68	12.50	11.99	12.50	14.85	15.50	
		215	7025	10.20	11.50		11.40	11.50	11.50	11.50	14.46	14.50	

WLAN6E(LPI) Index 5

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required
		57	6235		10.00		10.00		13.00	
		113	6515		11.00		11.00		14.00	
		173	6815		11.00		11.00		14.00	
		233	7115		13.50		13.50		16.50	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	
		57	6235		10.50		10.50		13.50	
		113	6515		11.50		11.50		14.50	
		173	6815		11.50		11.50		14.50	
		233	7115		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		107	6485		13.50		13.50		16.50	
		171	6805		14.50		14.50		17.50	
		227	7085		16.00		16.00		19.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		119	6545	13.48	13.50	13.48	13.50	16.49	16.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	
		215	7025	17.50	17.50	16.83	17.50	20.19	20.50	

WLAN6E(LPI) Index 6

	Mode	Channel	Frequency (MHz)	Ant 4		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required
		57	6235		10.00	
		113	6515		11.00	
		173	6815		11.00	
		233	7115		13.50	
	802.11ax-HE20 MCS0	1	5955		10.50	
		57	6235		10.50	
		113	6515		11.50	
		173	6815		11.50	
		233	7115		14.00	
	802.11ax-HE40 MCS0	3	5965		13.50	
		59	6245		13.50	
		107	6485		14.50	
		171	6805		14.50	
		227	7085		16.00	
	802.11ax-HE80 MCS0	7	5985		15.50	97.22
		71	6305		16.00	
		119	6545	16.05	17.00	
		167	6785	Not Required	17.00	
		215	7025	16.35	18.00	

WLAN6E(LPI) Index 7

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required
		57	6235		10.00		10.00		13.00	
		113	6515		11.00		11.00		14.00	
		173	6815		11.00		11.00		14.00	
		233	7115		13.50		13.50		16.50	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	
		57	6235		10.50		10.50		13.50	
		113	6515		11.50		11.50		14.50	
		173	6815		11.50		11.50		14.50	
		233	7115		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		107	6485		13.50		13.50		16.50	
		171	6805		14.50		14.50		17.50	
		227	7085		16.00		16.00		19.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		119	6545	13.48	13.50	13.48	13.50	16.49	16.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	
		215	7025	17.50	17.50	16.83	17.50	20.19	20.50	

WLAN6E(LPI) Index 8

	Mode	Channel	Frequency (MHz)	Ant 4		
				Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required
		57	6235		10.00	
		113	6515		11.00	
		173	6815		11.00	
		233	7115		13.50	
	802.11ax-HE20 MCS0	1	5955		10.50	
		57	6235		10.50	
		113	6515		11.50	
		173	6815		11.50	
		233	7115		14.00	
	802.11ax-HE40 MCS0	3	5965		13.50	
		59	6245		13.50	
		107	6485		14.50	
		171	6805		14.00	
		227	7085		15.00	
	802.11ax-HE80 MCS0	7	5985		15.50	97.22
		71	6305		16.00	
		119	6545	14.75	15.00	
		167	6785	Not Required	14.00	
		215	7025	14.75	15.00	

WLAN6E(LPI) Index 9

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	10.00	Not Required	10.00	Not Required	13.00	Not Required
		57	6235		10.00		10.00		13.00	
		113	6515		11.00		11.00		14.00	
		173	6815		11.00		11.00		14.00	
		233	7115		13.50		13.50		16.50	
	802.11ax-HE20 MCS0	1	5955		10.50		10.50		13.50	
		57	6235		10.50		10.50		13.50	
		113	6515		11.50		11.50		14.50	
		173	6815		11.50		11.50		14.50	
		233	7115		14.00		14.00		17.00	
	802.11ax-HE40 MCS0	3	5965		13.00		13.00		16.00	
		59	6245		13.00		13.00		16.00	
		107	6485		13.50		13.50		16.50	
		171	6805		14.50		14.50		17.50	
		227	7085		16.00		16.00		19.00	
	802.11ax-HE80 MCS0	7	5985	12.30	13.00	12.31	13.00	15.32	16.00	97.22
		71	6305	12.30	13.00	12.05	13.00	15.19	16.00	
		119	6545	13.48	13.50	13.48	13.50	16.49	16.50	
		167	6785	14.78	15.00	15.00	15.00	17.90	18.00	
		215	7025	17.50	17.50	16.83	17.50	20.19	20.50	

WLAN6E(VLP) Index 7

	Mode	Channel	Frequency (MHz)	Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
WiFi 6E	802.11a 6Mbps	1	5955	Not Required	5.50	Not Required	5.50	Not Required	8.50	Not Required
		57	6235		5.50		5.50		8.50	
		113	6515		7.50		7.50		10.50	
		173	6815		7.50		7.50		10.50	
		233	7115		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		6.50		6.50		9.50	
		57	6235		6.50		6.50		9.50	
		113	6515		7.50		7.50		10.50	
		173	6815		7.50		7.50		10.50	
		233	7115		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		9.50		9.50		12.50	
		59	6245		9.50		9.50		12.50	
		107	6485		10.50		10.50		13.50	
		171	6805		10.50		10.50		13.50	
		227	7085		13.00		13.00		16.00	
	802.11ax-HE80 MCS0	7	5985	10.46	12.00	12.00	12.00	14.31	15.00	97.22
		71	6305	11.52	12.00	10.99	12.00	14.27	15.00	
		119	6545	12.90	13.00	12.54	13.00	15.73	16.00	
		167	6785	13.00	13.00	11.93	13.00	15.51	16.00	
		215	7025	13.88	14.50	13.40	14.50	16.66	17.50	

WLAN6E(VLP)_Index 8

WEA NCE (VET) Index 8				Ant 4		
WiFi 6E	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	1	5955	Not Required	5.50	Not Required
		57	6235		5.50	
		113	6515		7.50	
		173	6815		7.50	
		233	7115		9.50	
	802.11ax-HE20 MCS0	1	5955		6.50	
		57	6235		6.50	
		113	6515		7.50	
		173	6815		7.50	
		233	7115		10.00	
	802.11ax-HE40 MCS0	3	5965		9.50	
		59	6245		9.50	
		107	6485		10.50	
		171	6805		10.50	
		227	7085		13.00	
	802.11ax-HE80 MCS0	7	5985	10.52	12.00	97.22
		71	6305	11.64	12.00	
		119	6545	11.84	13.00	
		167	6785	11.69	13.00	
215		7025	14.58	15.50		

WLAN6E(VLP)_Index 9

				Ant 4+3 (4)		Ant 4+3 (3)		Ant 4+3		
WiFi 6E	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	1	5955	Not Required	5.50	Not Required	5.50	Not Required	8.50	Not Required
		57	6235		5.50		5.50		8.50	
		113	6515		7.50		7.50		10.50	
		173	6815		7.50		7.50		10.50	
		233	7115		9.50		9.50		12.50	
	802.11ax-HE20 MCS0	1	5955		6.50		6.50		9.50	
		57	6235		6.50		6.50		9.50	
		113	6515		7.50		7.50		10.50	
		173	6815		7.50		7.50		10.50	
		233	7115		10.00		10.00		13.00	
	802.11ax-HE40 MCS0	3	5965		9.50		9.50		12.50	
		59	6245		9.50		9.50		12.50	
		107	6485		10.50		10.50		13.50	
		171	6805		10.50		10.50		13.50	
		227	7085		13.00		13.00		16.00	
	802.11ax-HE80 MCS0	7	5985	10.46	12.00	12.00	12.00	14.31	15.00	97.22
		71	6305	11.52	12.00	10.99	12.00	14.27	15.00	
		119	6545	12.90	13.00	12.54	13.00	15.73	16.00	
		167	6785	13.00	13.00	11.93	13.00	15.51	16.00	
215		7025	13.88	14.00	13.40	14.00	16.66	17.00		

15. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Edge	Bottom Edge	Right Edge	Left Edge
WWAN Ant 0	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 6	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 7	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WLAN/BT Ant 3	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WLAN/BT Ant 4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WLAN Ant 3+4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
NFC	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm

Positions for SAR test						
Antennas	Front	Back	Top Edge	Bottom Edge	Right Edge	Left Edge
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 5	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WLAN/BT Ant 3	Yes	Yes	Yes	No	Yes	Yes
WLAN/BT Ant 4	Yes	Yes	Yes	No	Yes	Yes
WLAN Ant 3+4	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	Yes	No	Yes	Yes

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm. RF Exposure must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The antenna location is illustrated in the Appendix E.

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
3. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.

WLAN Note:

1. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
2. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
3. For determining the SAR scaling factor in MIMO mode, if the RF hot spots are spatially separated, the scaling factors are individually derived from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined based on the worst number observed among all transmit chains.
4. The designation "3+4(3)" represents to a 2TX operation in which antennas 3 and 4 are active, and the reported SAR or conducted power data corresponds specifically to antenna 3.
5. The designation "3+4(4)" represents to a 2TX operation in which antennas 3 and 4 are active, and the reported SAR or conducted power data corresponds specifically to antenna 4.
6. During SAR testing, the WLAN transmit signal was continuously monitored using a spectrum analyzer to ensure continuous and stable signal output throughout the measurement.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report appendix D and part1 PD report.
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

**16.1 Head SAR**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1	215	7025	17.50	17.50	1.000	97.22	1.029	-0.08	0.280	0.288	1.74	1.790
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1	215	7025	16.83	17.50	1.167	97.22	1.029	-0.08	0.021	0.025	0.191	0.229
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1	215	7025	17.50	17.50	1.000	97.22	1.029	0.11	0.233	0.240	1.45	1.492
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1	215	7025	16.83	17.50	1.167	97.22	1.029	0.11	0.021	0.025	0.182	0.219
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	215	7025	17.50	17.50	1.000	97.22	1.029	0.1	0.415	0.427	2.58	2.655
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	215	7025	16.83	17.50	1.167	97.22	1.029	0.1	0.036	0.043	0.328	0.394
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	215	7025	17.50	17.50	1.000	97.22	1.029	0.16	0.455	0.468	3.21	3.303
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	215	7025	16.83	17.50	1.167	97.22	1.029	0.16	0.041	0.049	0.327	0.393
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	7	5985	12.30	13.00	1.175	97.22	1.029	0.06	0.313	0.378	2.1	2.539
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	7	5985	12.31	13.00	1.172	97.22	1.029	0.06	0.101	0.122	0.63	0.760
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	71	6305	12.30	13.00	1.175	97.22	1.029	0.12	0.627	0.758	5.01	6.057
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	71	6305	12.05	13.00	1.245	97.22	1.029	0.12	0.088	0.113	0.803	1.029
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	119	6545	13.48	13.50	1.005	97.22	1.029	-0.17	0.247	0.255	1.79	1.851
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	119	6545	13.48	13.50	1.005	97.22	1.029	-0.17	0.102	0.105	0.81	0.838
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	167	6785	14.78	15.00	1.052	97.22	1.029	0.1	0.228	0.247	1.76	1.905
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	167	6785	15.00	15.00	1.000	97.22	1.029	0.1	0.038	0.039	0.311	0.320
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4	Index 2	215	7025	16.35	18.00	1.462	97.22	1.029	0.08	0.226	0.340	1.36	2.046
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4	Index 2	215	7025	16.35	18.00	1.462	97.22	1.029	0.01	0.218	0.328	1.32	1.986
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 2	215	7025	16.35	18.00	1.462	97.22	1.029	-0.06	0.373	0.561	2.27	3.415
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 2	167	6785	16.02	18.00	1.578	97.22	1.029	-0.06	0.506	0.822	4.04	6.560
52	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4	Index 2	1	5955	15.38	16.00	1.153	98.65	1.014	-0.1	0.958	1.120	6.47	7.564
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 2	71	6305	15.40	16.00	1.148	97.22	1.029	-0.1	0.410	0.484	3.42	4.040
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 2	119	6545	16.05	17.00	1.245	97.22	1.029	0.16	0.562	0.720	4.08	5.227
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4	Index 2	215	7025	16.35	18.00	1.462	97.22	1.029	0.03	0.290	0.436	1.72	2.588
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 3	167	6785	14.78	15.00	1.052	97.22	1.029	0.1	0.140	0.152	1.07	1.158
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 3	167	6785	15.00	15.00	1.000	97.22	1.029	0.1	0.024	0.025	0.195	0.201
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 3	167	6785	14.78	15.00	1.052	97.22	1.029	0.12	0.118	0.128	0.91	0.985
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 3	167	6785	15.00	15.00	1.000	97.22	1.029	0.12	0.020	0.021	0.163	0.168
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 3	167	6785	14.78	15.00	1.052	97.22	1.029	-0.03	0.209	0.226	1.6	1.732
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 3	167	6785	15.00	15.00	1.000	97.22	1.029	-0.03	0.035	0.036	0.285	0.293
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3	167	6785	14.78	15.00	1.052	97.22	1.029	0.1	0.228	0.247	1.76	1.905
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3	167	6785	15.00	15.00	1.000	97.22	1.029	0.1	0.038	0.039	0.311	0.320
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3	7	5985	10.30	11.50	1.318	97.22	1.029	-0.01	0.183	0.248	1.11	1.505
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3	7	5985	9.50	11.50	1.585	97.22	1.029	-0.01	0.001	0.002	0.001	0.002
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3	71	6305	10.42	11.50	1.282	97.22	1.029	-0.13	0.140	0.185	1.06	1.398
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3	71	6305	9.70	11.50	1.514	97.22	1.029	-0.13	0.001	0.002	0.001	0.002
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3	119	6545	13.48	13.50	1.005	97.22	1.029	-0.17	0.247	0.255	1.79	1.851
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3	119	6545	13.48	13.50	1.005	97.22	1.029	-0.17	0.102	0.105	0.81	0.838
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3	215	7025	11.63	12.00	1.089	97.22	1.029	-0.18	0.199	0.223	1.28	1.434
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3	215	7025	11.74	12.00	1.062	97.22	1.029	-0.18	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4	Index 4	167	6785	10.86	12.50	1.459	97.22	1.029	0.08	0.062	0.093	0.469	0.704
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4	Index 4	167	6785	10.86	12.50	1.459	97.22	1.029	0.01	0.039	0.059	0.295	0.443
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 4	167	6785	10.86	12.50	1.459	97.22	1.029	-0.07	0.125	0.188	1.09	1.636
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 4	7	5985	7.51	9.00	1.409	97.22	1.029	-0.05	0.122	0.177	0.783	1.135
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 4	71	6305	7.70	9.00	1.349	97.22	1.029	-0.04	0.086	0.119	0.653	0.906
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 4	119	6545	9.54	10.00	1.112	97.22	1.029	-0.19	0.161	0.184	1.17	1.339
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	Index 4	215	7025	10.20	11.50	1.349	97.22	1.029	0.12	0.128	0.178	0.933	1.295
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4	Index 4	167	6785	10.86	12.50	1.459	97.22	1.029	0.03	0.103	0.155	0.789	1.185
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 4	167	6785	11.68	12.50	1.208	97.22	1.029	0.1	0.027	0.034	0.192	0.239
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 4	167	6785	11.99	12.50	1.125	97.22	1.029	0.1	0.095	0.110	0.951	1.101
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 4	167	6785	11.68	12.50	1.208	97.22	1.029	-0.17	0.013	0.016	0.092	0.114
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 4	167	6785	11.99	12.50	1.125	97.22	1.029	-0.17	0.069	0.080	0.49	0.567
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 4	167	6785	11.68	12.50	1.208	97.22	1.029	0.04	0.151	0.188	1.07	1.330
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 4	167	6785	11.99	12.50	1.125	97.22	1.029	0.04	0.030	0.035	0.213	0.247
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 4	167	6785	11.68	12.50	1.208	97.22	1.029	-0.12	0.155	0.193	1.1	1.367
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 4	167	6785	11.99	12.50	1.125	97.22	1.029	-0.12	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 4	7	5985	8.84	9.00	1.038	97.22	1.029	0.17	0.116	0.124	0.579	0.618
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 4	7	5985	7.86	9.00	1.300	97.22	1.029	0.17	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 4	71	6305	8.48	9.00	1.127	97.22	1.029	0.17	0.099	0.115	0.686	0.796
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 4	71	6305	7.69	9.00	1.352	97.22	1.029	0.17	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 4	119	6545	8.36	10.00	1.459	97.22	1.029	-0.18	0.088	0.132	0.686	1.030
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 4	119	6545	8.83	10.00	1.309	97.22	1.029	-0.18	0.021	0.028	0.166	0.224
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 4	215	7025	11.40	11.50	1.023	97.22	1.029	-0.15	0.191	0.201	1.19	1.253
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 4	215	7025	11.50	11.50	1.000	97.22	1.029	-0.15	0.001	0.001	0.001	0.001

**16.2 Hotspot SAR**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(4)	Index 7	215	7025	13.88	14.50	1.153	97.22	1.029	-0.1	0.091	0.108	0.615	0.730
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(3)	Index 7	215	7025	13.40	14.50	1.288	97.22	1.029	-0.1	0.030	0.040	0.203	0.269
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7	215	7025	13.88	14.50	1.153	97.22	1.029	0.01	0.210	0.249	1.42	1.685
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7	215	7025	13.40	14.50	1.288	97.22	1.029	0.01	0.065	0.086	0.488	0.647
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7	7	5985	10.46	12.00	1.426	97.22	1.029	0.19	0.124	0.182	0.931	1.366
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7	7	5985	12.00	12.00	1.000	97.22	1.029	0.19	0.039	0.040	0.293	0.301
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7	71	6305	11.52	12.00	1.117	97.22	1.029	0.01	0.113	0.130	0.802	0.922
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7	71	6305	10.99	12.00	1.262	97.22	1.029	0.01	0.112	0.145	0.77	1.000
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7	119	6545	12.90	13.00	1.023	97.22	1.029	-0.07	0.211	0.222	1.49	1.568
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7	119	6545	12.54	13.00	1.112	97.22	1.029	-0.07	0.179	0.205	1.23	1.407
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7	167	6785	13.00	13.00	1.000	97.22	1.029	0.03	0.211	0.217	1.65	1.698
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7	167	6785	11.93	13.00	1.279	97.22	1.029	0.03	0.122	0.161	0.888	1.169
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	5mm	Ant 4+3(4)	Index 7	215	7025	13.88	14.50	1.153	97.22	1.029	0.18	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	5mm	Ant 4+3(3)	Index 7	215	7025	13.40	14.50	1.288	97.22	1.029	0.18	0.112	0.148	0.815	1.080
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	5mm	Ant 4+3(4)	Index 7	215	7025	13.88	14.50	1.153	97.22	1.029	-0.1	0.051	0.061	0.371	0.440
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	5mm	Ant 4+3(3)	Index 7	215	7025	13.40	14.50	1.288	97.22	1.029	-0.1	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	5mm	Ant 4+3(4)	Index 7	215	7025	13.88	14.50	1.153	97.22	1.029	0.01	0.155	0.184	1.13	1.341
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	5mm	Ant 4+3(3)	Index 7	215	7025	13.40	14.50	1.288	97.22	1.029	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4	Index 8	215	7025	14.58	15.50	1.236	97.22	1.029	0.08	0.083	0.106	0.576	0.733
53	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	215	7025	14.58	15.50	1.236	97.22	1.029	-0.15	0.239	0.304	1.66	2.111
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	7	5985	10.52	12.00	1.406	97.22	1.029	-0.11	0.052	0.075	0.232	0.336
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	71	6305	11.64	12.00	1.086	97.22	1.029	0.03	0.145	0.162	0.647	0.723
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	119	6545	11.84	13.00	1.306	97.22	1.029	-0.08	0.169	0.227	0.754	1.013
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	167	6785	11.69	13.00	1.352	97.22	1.029	-0.08	0.144	0.200	0.642	0.893
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	5mm	Ant 4	Index 8	215	7025	14.58	15.50	1.236	97.22	1.029	0.1	0.001	0.001	0.004	0.005
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	5mm	Ant 4	Index 8	215	7025	14.58	15.50	1.236	97.22	1.029	-0.18	0.062	0.079	0.277	0.352
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	5mm	Ant 4	Index 8	215	7025	14.58	15.50	1.236	97.22	1.029	0.1	0.125	0.159	0.558	0.710
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(4)	Index 9	215	7025	13.88	14.00	1.028	97.22	1.029	-0.1	0.091	0.096	0.615	0.651
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(3)	Index 9	215	7025	13.40	14.00	1.148	97.22	1.029	-0.1	0.030	0.035	0.203	0.240
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 9	215	7025	13.88	14.00	1.028	97.22	1.029	0.01	0.210	0.222	1.42	1.502
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 9	215	7025	13.40	14.00	1.148	97.22	1.029	0.01	0.065	0.077	0.488	0.576
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 9	7	5985	10.46	12.00	1.426	97.22	1.029	0.19	0.124	0.182	0.931	1.366
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 9	7	5985	12.00	12.00	1.000	97.22	1.029	0.19	0.039	0.040	0.293	0.301
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 9	71	6305	11.52	12.00	1.117	97.22	1.029	0.01	0.113	0.130	0.802	0.922
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 9	71	6305	10.99	12.00	1.262	97.22	1.029	0.01	0.112	0.145	0.77	1.000
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 9	119	6545	12.90	13.00	1.023	97.22	1.029	-0.07	0.211	0.222	1.49	1.568
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 9	119	6545	12.54	13.00	1.112	97.22	1.029	-0.07	0.179	0.205	1.23	1.407
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 9	167	6785	13.00	13.00	1.000	97.22	1.029	0.03	0.211	0.217	1.65	1.698
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 9	167	6785	11.93	13.00	1.279	97.22	1.029	0.03	0.122	0.161	0.888	1.169
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	5mm	Ant 4+3(4)	Index 9	215	7025	13.88	14.00	1.028	97.22	1.029	0.18	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	5mm	Ant 4+3(3)	Index 9	215	7025	13.40	14.00	1.148	97.22	1.029	0.18	0.112	0.132	0.815	0.963
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	5mm	Ant 4+3(4)	Index 9	215	7025	13.88	14.00	1.028	97.22	1.029	-0.1	0.051	0.054	0.371	0.392
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	5mm	Ant 4+3(3)	Index 9	215	7025	13.40	14.00	1.148	97.22	1.029	-0.1	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	5mm	Ant 4+3(4)	Index 9	215	7025	13.88	14.00	1.028	97.22	1.029	0.01	0.155	0.164	1.13	1.195
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	5mm	Ant 4+3(3)	Index 9	215	7025	13.40	14.00	1.148	97.22	1.029	0.01	0.001	0.001	0.001	0.001

**16.3 Body-Worn Accessory SAR**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	-0.17	0.128	0.132	0.908	0.934
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	-0.17	0.119	0.143	0.844	1.014
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 5	71	6305	12.30	13.00	1.175	97.22	1.029	0.16	0.133	0.161	0.943	1.140
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 5	71	6305	12.05	13.00	1.245	97.22	1.029	0.16	0.127	0.163	0.854	1.094
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 5	7	5985	12.30	13.00	1.175	97.22	1.029	0.1	0.179	0.216	1.32	1.596
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 5	7	5985	12.31	13.00	1.172	97.22	1.029	0.1	0.158	0.191	0.994	1.199
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 5	119	6545	13.48	13.50	1.005	97.22	1.029	0.03	0.300	0.310	2.13	2.203
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 5	119	6545	13.48	13.50	1.005	97.22	1.029	0.03	0.249	0.258	1.77	1.830
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 5	167	6785	14.78	15.00	1.052	97.22	1.029	-0.13	0.376	0.407	2.63	2.847
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 5	167	6785	15.00	15.00	1.000	97.22	1.029	-0.13	0.194	0.200	1.43	1.471
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	0.12	0.167	0.172	1.15	1.183
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	0.12	0.069	0.083	0.536	0.644
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	0.01	0.160	0.241	1.29	1.941
	WLAN6GHz	802.11a 6Mbps	Back	5mm	Ant 4	Index 6	1	5955	15.38	17.00	1.452	95.51	1.047	0.06	0.382	0.581	3.08	4.682
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 6	71	6305	17.00	17.00	1.000	97.22	1.029	0.05	0.339	0.349	2.37	2.439
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 6	119	6545	16.05	17.00	1.245	97.22	1.029	0.03	0.600	0.769	4.17	5.342
54	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 6	167	6785	16.02	18.00	1.578	97.22	1.029	0.05	0.578	0.939	4.1	6.657
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	0.1	0.490	0.737	3.39	5.100
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(4)	Index 7/9	215	7025	17.50	17.50	1.000	97.22	1.029	-0.17	0.128	0.132	0.908	0.934
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+3(3)	Index 7/9	215	7025	16.83	17.50	1.167	97.22	1.029	-0.17	0.119	0.143	0.844	1.014
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7/9	71	6305	12.30	13.00	1.175	97.22	1.029	0.16	0.133	0.161	0.943	1.140
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7/9	71	6305	12.05	13.00	1.245	97.22	1.029	0.16	0.127	0.163	0.854	1.094
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7/9	7	5985	12.30	13.00	1.175	97.22	1.029	0.1	0.179	0.216	1.32	1.596
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7/9	7	5985	12.31	13.00	1.172	97.22	1.029	0.1	0.158	0.191	0.994	1.199
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7/9	119	6545	13.48	13.50	1.005	97.22	1.029	0.03	0.300	0.310	2.13	2.203
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7/9	119	6545	13.48	13.50	1.005	97.22	1.029	0.03	0.249	0.258	1.77	1.830
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7/9	167	6785	14.78	15.00	1.052	97.22	1.029	-0.13	0.376	0.407	2.63	2.847
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7/9	167	6785	15.00	15.00	1.000	97.22	1.029	-0.13	0.194	0.200	1.43	1.471
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(4)	Index 7/9	215	7025	17.50	17.50	1.000	97.22	1.029	0.12	0.167	0.172	1.15	1.183
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+3(3)	Index 7/9	215	7025	16.83	17.50	1.167	97.22	1.029	0.12	0.069	0.083	0.536	0.644
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4	Index 8	71	6305	15.00	16.00	1.259	97.22	1.029	0.1	0.195	0.253	1.57	2.034
	WLAN6GHz	802.11a 6Mbps	Back	5mm	Ant 4	Index 8	1	5955	15.38	16.00	1.153	95.51	1.047	0.06	0.382	0.461	3.08	3.718
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	71	6305	15.00	16.00	1.259	97.22	1.029	0.12	0.320	0.415	2.58	3.342
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	119	6545	14.75	15.00	1.059	97.22	1.029	0.08	0.369	0.402	2.98	3.247
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	167	6785	13.55	14.00	1.109	97.22	1.029	-0.17	0.400	0.456	3.23	3.686
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4	Index 8	215	7025	14.75	15.00	1.059	97.22	1.029	-0.03	0.408	0.445	3.29	3.585

**16.4 Product Specific SAR**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	0.06	0.268	0.276	6.1	6.277
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	0.06	0.174	0.209	4.13	4.959
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	Index 5	7	5985	12.30	13.00	1.175	97.22	1.029	0.04	0.270	0.326	6.27	7.581
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	Index 5	7	5985	12.31	13.00	1.172	97.22	1.029	0.04	0.396	0.478	9.31	11.228
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	Index 5	119	6545	13.48	13.50	1.005	97.22	1.029	0.01	0.250	0.259	5.75	5.946
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	Index 5	119	6545	13.48	13.50	1.005	97.22	1.029	0.01	0.323	0.334	7.65	7.911
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	Index 5	167	6785	14.78	15.00	1.052	97.22	1.029	0.12	0.225	0.244	5.22	5.651
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	Index 5	167	6785	15.00	15.00	1.000	97.22	1.029	0.12	0.180	0.185	4.26	4.384
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(4)	Index 5	71	6305	12.30	13.00	1.175	97.22	1.029	0.01	0.194	0.235	4.57	5.525
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3(3)	Index 5	71	6305	12.05	13.00	1.245	97.22	1.029	0.01	0.260	0.333	6.16	7.892
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	0.05	0.197	0.203	4.67	4.805
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	0.05	0.128	0.154	3.03	3.639
	WLAN5GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	0.13	0.001	0.001	0.001	0.001
	WLAN5GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	0.13	0.131	0.157	3.08	3.699
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	-0.09	0.059	0.061	1.15	1.183
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	-0.09	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 4+3(4)	Index 5	215	7025	17.50	17.50	1.000	97.22	1.029	-0.08	0.144	0.148	2.31	2.377
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 4+3(3)	Index 5	215	7025	16.83	17.50	1.167	97.22	1.029	-0.08	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	-0.19	0.254	0.382	5.93	8.921
55	WLAN6GHz	802.11a 6Mbps	Front	0mm	Ant 4	Index 6	1	5955	15.38	17.00	1.452	95.51	1.047	0.17	0.554	0.842	12.7	19.307
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4	Index 6	71	6305	17.00	17.00	1.000	97.22	1.029	0.14	0.415	0.427	9.85	10.136
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4	Index 6	119	6545	16.05	17.00	1.245	97.22	1.029	0.11	0.389	0.498	9.12	11.684
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4	Index 6	167	6785	16.02	18.00	1.578	97.22	1.029	0.19	0.263	0.427	6.12	9.937
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	0.17	0.288	0.433	6.7	10.079
	WLAN6GHz	802.11ax-HE80 MCS0	Left Edge	0mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	-0.05	0.001	0.002	0.023	0.035
	WLAN6GHz	802.11ax-HE80 MCS0	Right Edge	0mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	0.01	0.110	0.165	2.56	3.851
	WLAN6GHz	802.11ax-HE80 MCS0	Top Edge	0mm	Ant 4	Index 6	215	7025	16.35	18.00	1.462	97.22	1.029	0.1	0.300	0.451	6.98	10.501

16.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(4)	7	5985	13.21	0.0625	2.04	-0.96910013	3.2	3.58
WLAN6GHz	802.11ax-HE80 MCS0	Front	10.03mm	Ant 3+4(4)	7	5985	13.21	0.25	2.55		1.19	1.24
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(3)	215	7025	16.83	0.0625	3.53	-0.97647564	3.41	3.87
WLAN6GHz	802.11ax-HE80 MCS0	Front	8.54mm	Ant 3+4(3)	215	7025	16.83	0.25	4.42		1.96	2.2

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(4)	7	5985	12.30	13.00	1.175	97.22	1.029	0.0625	1.5535	-0.07	2.25	4.23	2.54	4.77
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(3)	71	6305	12.05	13.00	1.245	97.22	1.029	0.0625	1.5535	0.07	2.31	4.60	3.14	6.25
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(4)	119	6545	13.48	13.50	1.005	97.22	1.029	0.0625	1.5535	0.15	4.21	6.76	4.29	6.89
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(4)	167	6785	14.78	15.00	1.052	97.22	1.029	0.0625	1.5535	0.06	3.11	5.23	4.16	7.00
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 3+4(3)	215	7025	16.83	17.50	1.167	97.22	1.029	0.0625	1.5535	-0.03	3.16	5.89	3.74	6.98
	WLAN6GHz	802.11a 6Mbps	Front	2mm	Ant 4	1	5955	15.38	16.00	1.153	95.51	1.047	0.0625	1.5535	0.12	2.51	4.71	2.6	4.88
56	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	71	6305	15.40	16.00	1.148	97.22	1.029	0.0625	1.5535	-0.08	3.7	6.79	3.97	7.29
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	119	6545	16.05	17.00	1.245	97.22	1.029	0.0625	1.5535	0.08	2.27	4.52	2.59	5.15
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	167	6785	16.02	18.00	1.578	97.22	1.029	0.0625	1.5535	0.03	2.33	5.88	2.42	6.10
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	215	7025	16.35	18.00	1.462	97.22	1.029	0.0625	1.5535	-0.14	1.69	3.95	2.58	6.03

Test Engineer : White Huang, Willy Yu, Lev Lo and Charles Shen

17. Uncertainty Assessment

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.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 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	2.00	R	1.732	1	1.15
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					1.34
Expanded STD Uncertainty (95%)					2.68

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [7] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [8] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [9] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [10] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [11] FCC KDB 941225 D07 v01r02, " SAR Evaluation Procedures for UMPC Mini-Tablet Devices", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [14] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020
- [15] SPEAG DASY6 System Handbook
- [16] SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)