



FCC SAR TEST REPORT

FCC ID : A4RG9BQD
Equipment : Phone
Model Name : G9BQD
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Apr. 17, 2023 and testing was started from Apr. 22, 2023 and completed on Jul. 07, 2023. 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



Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FA2D0208-07D	01	Initial issue of report	Jul. 06, 2023
FA2D0208-07D	02	1. Update Section 1, Section 5.1, Section 10, Section 11, Section 13.3 and 13.4 2. Update Appendix A, B, C and D	Jul. 18, 2023
FA2D0208-07D	03	3. Update appendix D	Aug. 22, 2023



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, G9BQD, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.94	0.95	0.77		1.59	2.47
	GSM1900	0.67	0.73	0.76	2.47		
	WCDMA II	0.93	0.77	0.79			
	WCDMA IV	0.73	0.52	0.82			
	WCDMA V	0.67	0.76	0.76			
	LTE B2	0.99	0.57	0.79			
	LTE B7	0.80	0.94	0.82	1.82		
	LTE B12/B17	0.98	0.49	0.54			
	LTE B13	0.83	0.54	0.70			
	LTE B14	0.82	0.53	0.64			
	LTE B25/B2	0.92	0.61	0.84	2.44		
	LTE B26/B5	0.82	0.63	0.72			
	LTE B30	0.65	0.99	0.83	1.85		
	LTE B41/B38	0.91	0.68	0.69	1.67		
	LTE B48	0.61	0.49	0.84			
	LTE B66/B4	0.99	0.92	0.68	1.13		
	LTE B71	0.98	0.50	0.48			
	FR1 n2	0.96	0.54	0.66			
	FR1 n7	0.92	0.99	0.81	1.57		
	FR1 n12	0.93	0.50	0.55			
	FR1 n25/n2	0.81	0.74	0.85			
	FR1 n26/n5	0.78	0.74	0.79			
	FR1 n30	0.68	0.98	0.83	1.51		
	FR1 n38	0.34					
FR1 n41	0.85	0.78	0.82	1.41			
FR1 n48	0.99	0.60	0.81				
FR1 n66	1.00	0.97	0.81	0.95			
FR1 n70	0.55	0.53	0.85				
FR1 n71	0.94	0.53	0.62				
FR1 n77/n78	0.92	0.78	0.65				
DXX	13.56 MHz				0.13		2.47
DTS	2.4GHz WLAN	1.10	0.95	0.70		1.59	
NII	5GHz WLAN	0.95	0.79	0.46	2.19	1.59	2.470
6CD	6GHz WLAN	0.43	0.12		0.39	1.59	2.470
DSS	Bluetooth	0.44	0.64	0.47		1.59	
Equipment Class	Frequency Band	Head Reported APD (mW/cm ²)	Body Reported APD (mW/cm ²)	Product Specific Reported APD (mW/cm ²)	Reported PD (mW/cm ²)		
6CD	6GHz WLAN	0.28	0.07	0.91	0.65		
Date of Testing:		2023/04/22 ~ 2023/07/07					

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



1. Data Reuse Approach

FCC ID: A4RGKWS6 (Reference model) and FCC ID: A4RG9BQD (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

Since 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.

For variant model 1g SAR and 10g spot check SAR result does not exceed 30% of reference model and 1g SAR and 10g SAR less than 1.2W/kg and 3.0W/kg respectively, the WWAN 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: A4RG9BQD

2. Model Difference Information

A4RGKWS6 and A4RG9BQD use the identical internal printed circuit board layout, and the major differences which may relate to RF are listed below:

- 5G FR2 related components are depopulated
- Different antenna matching for antenna 4

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



3. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filing (Variant)	Test on the variant
Part 2.1093 SAR	DXX	WPT	110.1KHz ~ 148.5KHz				A4RG9BQD	Full test
	DXX	NFC	13.56				A4RG9BQD	Full test
	DSS	Bluetooth	2400~2483.5				A4RG9BQD	Full test
	DTS	BLE Wi-Fi	2400~2483.5				A4RG9BQD	Full test
	NII	Wi-Fi	5150 ~ 5250 5250 ~ 5350 5470 ~ 5725 5725 ~ 5850 5850 ~ 5895				A4RG9BQD	Full test
	6XD	Wi-Fi	5925 ~ 6425 6425 ~ 6525 6525 ~ 6875 6875 ~ 7125				A4RG9BQD	Full test
	PCB CBE	GSM	850/1900	A4RGKWS6	Original Grant	FA2D0208-01F	A4RG9BQD	Spot Check
		WCDMA	B2/4/5	A4RGKWS6	Original Grant	FA2D0208-01F	A4RG9BQD	Spot Check
		LTE	B2/4/5/7/12/13/14 /17/25/26/30/38/41 /48/66/71	A4RGKWS6	Original Grant	FA2D0208-01F	A4RG9BQD	Spot check
		5G FR1	n2/5/7/12/25/26/30/38/41/48/66/70/71/77/78	A4RGKWS6	Original Grant	FA2D0208-01F	A4RG9BQD	Spot check

4. 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)



5. Equipment Under Test (EUT) Information

5.1 General Information

Product Feature & Specification	
Equipment Name	Phone
Model Name	G9BQD
FCC ID	A4RG9BQD
S/N	33301FDJH00023, 33301FDJH00020, 33301FDJH00024, 33301FDJH0001Z, 33301FDJH00025, 33301FDJH00022, 33301FDJH00021
Wireless Technology and Frequency Range	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 n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2G Band: 5150 MHz ~ 5250 MHz WLAN 5.3G Band: 5250 MHz ~ 5350 MHz WLAN 5.5G Band: 5470 MHz ~ 5725 MHz WLAN 5.8G Band: 5725 MHz ~ 5850 MHz WLAN 5.9G Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425MHz~6525 MHz, 6525 MHz~6875MHz, 6875 MHz~7125MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPT: 110.1 KHz ~ 148.5 KHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE/HR NFC: ASK WPT: 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:	
1.	Dynamic antenna tuning mechanism is available at Ant. 0, 1 and 2 for its < 3GHz LTE and NR band, and the supplemental antenna tuner test results were included in reference model part1 SAR appendix G, details are illustrated in the operational description.
2.	This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
3.	The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the TAS feature will manage to ensure the power level not exceeding the associated power table. And also implement Spatial TAS predefine antenna group to analysis simultaneous transmission include in appendix D.
4.	The device implements the sensor detection for SAR compliance and the power verification include in appendix E.

5.2 Maximum Tune-up Limit

<WLAN Maximum Power>

General Note:

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

<Power index 0>

<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50		1	2412	22.50	
		6	2437	22.50		6	2437	22.50	
		11	2462	22.50		11	2462	22.50	
		12	2467	22.50		12	2467	22.50	
13	2472	21.50	13	2472	20.00				

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	22.00	22.00	25.0
		6	2437	22.00	22.00	25.0
		11	2462	20.00	20.00	23.0
		12	2467	16.50	16.50	19.5
		13	2472	13.00	13.00	16.0
	802.11n-HT20 MCS0	1	2412	21.00	21.00	24.0
		6	2437	21.00	21.00	24.0
		11	2462	18.50	18.50	21.5
		12	2467	16.00	16.00	19.0
	802.11ac-VHT20 MCS0	1	2412	21.00	21.00	24.0
		6	2437	21.00	21.00	24.0
		11	2462	18.50	18.50	21.5
12		2467	16.00	16.00	19.0	



	802.11ax-HE20 MCS0	13	2472	13.50	13.50	16.5
		1	2412	21.00	21.00	24.0
		6	2437	21.00	21.00	24.0
		11	2462	18.50	18.50	21.5
		12	2467	16.00	16.00	19.0
	13	2472	13.50	13.50	16.5	
	802.11be EHT20	1	2412	21.00	21.00	24.0
		6	2437	21.00	21.00	24.0
		11	2462	19.00	19.00	22.0
		12	2467	16.00	16.00	19.0
13		2472	13.50	13.50	16.5	

<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.50	19.50	22.5
		40	5200	20.00	20.00	23.0
		44	5220	21.00	21.00	24.0
		48	5240	20.00	20.00	23.0
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.0
		40	5200	19.50	19.50	22.5
		44	5220	21.00	21.00	24.0
	802.11n-HT40 MCS0	38	5190	17.00	17.00	20.0
		46	5230	20.00	20.00	23.0
		48	5240	21.00	21.00	24.0
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.0
		40	5200	19.50	19.50	22.5
		44	5220	21.00	21.00	24.0
		48	5240	21.00	21.00	24.0
	802.11ac-VHT40 MCS0	38	5190	17.00	17.00	20.0
		46	5230	20.00	20.00	23.0
802.11ac-VHT80 MCS0	42	5210	17.00	17.00	20.0	
802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.0	
	40	5200	19.50	19.50	22.5	
	44	5220	21.00	21.00	24.0	
	48	5240	21.00	21.00	24.0	
802.11ax-HE40 MCS0	38	5190	17.00	17.00	20.0	
	46	5230	20.00	20.00	23.0	
802.11ax-HE80 MCS0	42	5210	17.00	17.00	20.0	
802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.0	
	40	5200	19.50	19.50	22.5	
	44	5220	21.00	21.00	24.0	
	48	5240	21.00	21.00	24.0	
802.11be-EHT40 MCS0	38	5190	17.00	17.00	20.0	
	46	5230	20.00	20.00	23.0	
802.11be-EHT80 MCS0	42	5210	17.00	17.00	20.0	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	21.0	21.0	24.0
		56	5280	21.0	21.0	24.0
		60	5300	21.0	21.0	24.0
		64	5320	19.0	19.0	22.0
	802.11n-HT20 MCS0	52	5260	21.0	21.0	24.0
		56	5280	21.0	21.0	24.0
		60	5300	21.0	21.0	24.0
		64	5320	19.0	19.0	22.0
	802.11n-HT40 MCS0	54	5270	20.0	20.0	23.0
		62	5310	17.0	17.0	20.0
	802.11ac-VHT20 MCS0	52	5260	21.0	21.0	24.0
		56	5280	21.0	21.0	24.0
		60	5300	21.0	21.0	24.0
		64	5320	19.0	19.0	22.0
	802.11ac-VHT40 MCS0	54	5270	20.0	20.0	23.0
		62	5310	17.0	17.0	20.0
	802.11ac-VHT80 MCS0	58	5290	17.0	17.0	20.0
	802.11ac-VHT160 MCS0	50	5250	15.0	15.0	18.0
	802.11ax-HE20 MCS0	52	5260	21.0	21.0	24.0
		56	5280	21.0	21.0	24.0
		60	5300	21.0	21.0	24.0
		64	5320	19.0	19.0	22.0
	802.11ax-HE40 MCS0	54	5270	20.0	20.0	23.0
		62	5310	17.0	17.0	20.0
	802.11ax-HE80 MCS0	58	5290	17.0	17.0	20.0
	802.11ax-HE160 MCS0	50	5250	15.0	15.0	18.0
	802.11be-EHT20 MCS0	52	5260	21.0	21.0	24.0
		56	5280	21.0	21.0	24.0
60		5300	21.0	21.0	24.0	
64		5320	19.0	19.0	22.0	
802.11be-EHT40 MCS0	54	5270	20.0	20.0	23.0	
	62	5310	17.0	17.0	20.0	
802.11be-EHT80 MCS0	58	5290	17.0	17.0	20.0	
802.11be-EHT160 MCS0	50	5250	15.0	15.0	18.0	



Burst Average Power (dBm)							
5.5GHz WLAN	Transmit Antenna		MIMO Ant 3+4				
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4	
802.11a 6Mbps	802.11a 6Mbps	100	5500	21.0	21.0	24.0	
		116	5580	21.0	21.0	24.0	
		124	5620	21.0	21.0	24.0	
		132	5660	21.0	21.0	24.0	
		140	5700	17.0	17.0	20.0	
		144	5720	21.0	21.0	24.0	
	802.11n-HT20 MCS0	802.11n-HT20 MCS0	100	5500	21.0	21.0	24.0
			116	5580	21.0	21.0	24.0
			124	5620	21.0	21.0	24.0
			132	5660	21.0	21.0	24.0
			140	5700	17.0	17.0	20.0
	802.11n-HT40 MCS0	802.11n-HT40 MCS0	102	5510	16.5	16.5	19.5
			110	5550	20.0	20.0	23.0
			126	5630	20.0	20.0	23.0
			134	5670	20.0	20.0	23.0
			142	5710	20.0	20.0	23.0
802.11ac-VHT20 MCS0	802.11ac-VHT20 MCS0	100	5500	21.0	21.0	24.0	
		116	5580	21.0	21.0	24.0	
		124	5620	21.0	21.0	24.0	
		132	5660	21.0	21.0	24.0	
		140	5700	17.0	17.0	20.0	
802.11ac-VHT40 MCS0	802.11ac-VHT40 MCS0	102	5510	16.5	16.5	19.5	
		110	5550	20.0	20.0	23.0	
		126	5630	20.0	20.0	23.0	
		134	5670	20.0	20.0	23.0	
		142	5710	20.0	20.0	23.0	
802.11ac-VHT80 MCS0	802.11ac-VHT80 MCS0	106	5530	17.0	17.0	20.0	
		122	5610	20.0	20.0	23.0	
		138	5690	20.0	20.0	23.0	
802.11ac-VHT160 MCS0	802.11ac-VHT160 MCS0	114	5570	16.5	16.5	19.5	
802.11ax-HE20 MCS0	802.11ax-HE20 MCS0	100	5500	21.0	21.0	24.0	
		116	5580	21.0	21.0	24.0	
		124	5620	21.0	21.0	24.0	
		132	5660	21.0	21.0	24.0	
		140	5700	17.0	17.0	20.0	
802.11ax-HE40 MCS0	802.11ax-HE40 MCS0	102	5510	16.5	16.5	19.5	
		110	5550	20.0	20.0	23.0	
		126	5630	20.0	20.0	23.0	
		134	5670	20.0	20.0	23.0	
		142	5710	20.0	20.0	23.0	
802.11ax-HE80 MCS0	802.11ax-HE80 MCS0	106	5530	17.0	17.0	20.0	
		122	5610	20.0	20.0	23.0	
		138	5690	20.0	20.0	23.0	
802.11ax-HE160 MCS0	802.11ax-HE160 MCS0	114	5570	16.5	16.5	19.5	
802.11be-EHT20 MCS0	802.11be-EHT20 MCS0	100	5500	21.0	21.0	24.0	
		116	5580	21.0	21.0	24.0	
		124	5620	21.0	21.0	24.0	
		132	5660	21.0	21.0	24.0	
		140	5700	17.0	17.0	20.0	
802.11be-EHT40 MCS0	802.11be-EHT40 MCS0	102	5510	16.5	16.5	19.5	
		110	5550	20.0	20.0	23.0	
		126	5630	20.0	20.0	23.0	
		134	5670	20.0	20.0	23.0	
		142	5710	20.0	20.0	23.0	
802.11be-EHT80 MCS0	802.11be-EHT80 MCS0	106	5530	17.0	17.0	20.0	
		122	5610	20.0	20.0	23.0	
		138	5690	20.0	20.0	23.0	
802.11be-EHT160 MCS0	802.11be-EHT160 MCS0	114	5570	16.5	16.5	19.5	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	21.00	21.00	24.0
		157	5785	21.00	21.00	24.0
		165	5825	21.00	21.00	24.0
802.11n-HT20 MCS0		149	5745	21.00	21.00	24.0
		157	5785	21.00	21.00	24.0
		165	5825	21.00	21.00	24.0
802.11n-HT40 MCS0		151	5755	20.00	20.00	23.0
		159	5795	20.00	20.00	23.0
802.11ac-VHT20 MCS0		149	5745	21.00	21.00	24.0
		157	5785	21.00	21.00	24.0
		165	5825	21.00	21.00	24.0
802.11ac-VHT40 MCS0		151	5755	20.00	20.00	23.0
		159	5795	20.00	20.00	23.0
802.11ac-VHT80 MCS0		155	5775	20.00	20.00	23.0
802.11ax-HE20 MCS0		149	5745	21.00	21.00	24.0
		157	5785	21.00	21.00	24.0
		165	5825	21.00	21.00	24.0
802.11ax-HE40 MCS0		151	5755	20.00	20.00	23.0
		159	5795	20.00	20.00	23.0
802.11ax-HE80 MCS0		155	5775	20.00	20.00	23.0
802.11be-EHT20 MCS0		149	5745	21.00	21.00	24.0
		157	5785	21.00	21.00	24.0
		165	5825	21.00	21.00	24.0
802.11be-EHT40 MCS0		151	5755	20.00	20.00	23.0
		159	5795	20.00	20.00	23.0
802.11be-EHT80 MCS0		155	5775	20.00	20.00	23.0



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.9GHz WLAN	802.11a 6Mbps	169	5845	21.00	21.00	24.0
		173	5865	21.00	21.00	24.0
		177	5885	21.00	21.00	24.0
	802.11n-HT20 MCS0	169	5845	21.00	21.00	24.0
		173	5865	21.00	21.00	24.0
		177	5885	21.00	21.00	24.0
	802.11n-HT40 MCS0	167	5835	20.00	20.00	23.0
		175	5875	20.00	20.00	23.0
	802.11ac-VHT20 MCS0	169	5845	21.00	21.00	24.0
		173	5865	21.00	21.00	24.0
		177	5885	21.00	21.00	24.0
	802.11ac-VHT40 MCS0	167	5835	20.00	20.00	23.0
		175	5875	20.00	20.00	23.0
	802.11ac-VHT80 MCS0	171	5855	20.00	20.00	23.0
	802.11ac-VHT160 MCS0	163	5815	19.00	19.00	22.0
	802.11ax-HE20 MCS0	169	5845	21.00	21.00	24.0
		173	5865	21.00	21.00	24.0
		177	5885	21.00	21.00	24.0
	802.11ax-HE40 MCS0	167	5835	20.00	20.00	23.0
		175	5875	20.00	20.00	23.0
802.11ax-HE80 MCS0	171	5855	20.00	20.00	23.0	
802.11ax-HE160 MCS0	163	5815	19.00	19.00	22.0	
802.11be-EHT20 MCS0	169	5845	21.00	21.00	24.0	
	173	5865	21.00	21.00	24.0	
	177	5885	21.00	21.00	24.0	
802.11be-EHT40 MCS0	167	5835	20.00	20.00	23.0	
	175	5875	20.00	20.00	23.0	
802.11be-EHT80 MCS0	171	5855	20.00	20.00	23.0	
802.11be-EHT160 MCS0	163	5815	19.00	19.00	22.0	



<Power index 1>

<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	13.50		802.11b 1Mbps	1	2412	13.50
		6	2437	13.50			6	2437	13.50
		11	2462	13.50			11	2462	13.50
		12	2467	13.50			12	2467	13.50
		13	2472	13.50			13	2472	13.50

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	13.50	13.50	16.50
		6	2437	13.50	13.50	16.50
		11	2462	13.50	13.50	16.50
		12	2467	13.50	13.50	16.50
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	13.50	13.50	16.50
		6	2437	13.50	13.50	16.50
		11	2462	13.50	13.50	16.50
		12	2467	13.50	13.50	16.50
	802.11ac-VHT20 MCS0	1	2412	13.50	13.50	16.50
		6	2437	13.50	13.50	16.50
		11	2462	13.50	13.50	16.50
		12	2467	13.50	13.50	16.50
	802.11ax-HE20 MCS0	1	2412	13.50	13.50	16.50
		6	2437	13.50	13.50	16.50
11		2462	13.50	13.50	16.50	
12		2467	13.50	13.50	16.50	
802.11be-EHT20 MCS0	1	2412	13.50	13.50	16.50	
	6	2437	13.50	13.50	16.50	
	11	2462	13.50	13.50	16.50	
	12	2467	13.50	13.50	16.50	
		13	2472	13.50	13.50	16.50



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11n-HT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11n-HT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	42	5210	14.50	14.50	17.50
	802.11ax-HE20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11ax-HE40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ax-HE80 MCS0	42	5210	14.50	14.50	17.50
	802.11be-EHT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11be-EHT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
802.11be-EHT80 MCS0	42	5210	14.50	14.50	17.50	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11n-HT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11n-HT40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	58	5290	14.50	14.50	17.50
	802.11ac-VHT160 MCS0	50	5250	14.5	14.5	17.5
	802.11ax-HE20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11ax-HE40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ax-HE80 MCS0	58	5290	14.50	14.50	17.50
	802.11ax-HE160 MCS0	50	5250	14.5	14.5	17.5
	802.11be-EHT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
60		5300	14.50	14.50	17.50	
64		5320	14.50	14.50	17.50	
802.11be-EHT40 MCS0	54	5270	14.50	14.50	17.50	
	62	5310	14.50	14.50	17.50	
802.11be-EHT80 MCS0	58	5290	14.50	14.50	17.50	
802.11be-EHT160 MCS0	50	5250	14.5	14.5	17.5	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
802.11n-HT20 MCS0		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
802.11n-HT40 MCS0		102	5510	15.00	15.00	18.00
		110	5550	15.00	15.00	18.00
		126	5630	15.00	15.00	18.00
		134	5670	15.00	15.00	18.00
802.11ac-VHT20 MCS0		142	5710	15.00	15.00	18.00
		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
802.11ac-VHT40 MCS0		132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
		102	5510	15.00	15.00	18.00
		110	5550	15.00	15.00	18.00
802.11ac-VHT80 MCS0		126	5630	15.00	15.00	18.00
		134	5670	15.00	15.00	18.00
		142	5710	15.00	15.00	18.00
		106	5530	15.00	15.00	18.00
802.11ac-VHT160 MCS0		122	5610	15.00	15.00	18.00
		138	5690	15.00	15.00	18.00
		114	5570	15.00	15.00	18.00
802.11ax-HE20 MCS0		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
802.11ax-HE40 MCS0		102	5510	15.00	15.00	18.00
		110	5550	15.00	15.00	18.00
		126	5630	15.00	15.00	18.00
		134	5670	15.00	15.00	18.00
		142	5710	15.00	15.00	18.00
802.11ax-HE80 MCS0		106	5530	15.00	15.00	18.00
		122	5610	15.00	15.00	18.00
		138	5690	15.00	15.00	18.00
802.11ax-HE160 MCS0		114	5570	15.00	15.00	18.00
802.11be-EHT20 MCS0		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
802.11be-EHT40 MCS0		102	5510	15.00	15.00	18.00
		110	5550	15.00	15.00	18.00
		126	5630	15.00	15.00	18.00
		134	5670	15.00	15.00	18.00
		142	5710	15.00	15.00	18.00
802.11be-EHT80 MCS0		106	5530	15.00	15.00	18.00
		122	5610	15.00	15.00	18.00
		138	5690	15.00	15.00	18.00
802.11be-EHT160 MCS0		114	5570	15.00	15.00	18.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	15.50	15.50	18.50
		157	5785	15.50	15.50	18.50
		165	5825	15.50	15.50	18.50
802.11n-HT20 MCS0		149	5745	15.50	15.50	18.50
		157	5785	15.50	15.50	18.50
		165	5825	15.50	15.50	18.50
802.11n-HT40 MCS0		151	5755	15.50	15.50	18.50
		159	5795	15.50	15.50	18.50
802.11ac-VHT20 MCS0		149	5745	15.50	15.50	18.50
		157	5785	15.50	15.50	18.50
		165	5825	15.50	15.50	18.50
802.11ac-VHT40 MCS0		151	5755	15.50	15.50	18.50
		159	5795	15.50	15.50	18.50
802.11ac-VHT80 MCS0		155	5775	15.50	15.50	18.50
802.11ax-HE20 MCS0		149	5745	15.50	15.50	18.50
		157	5785	15.50	15.50	18.50
		165	5825	15.50	15.50	18.50
802.11ax-HE40 MCS0		151	5755	15.50	15.50	18.50
		159	5795	15.50	15.50	18.50
802.11ax-HE80 MCS0		155	5775	15.50	15.50	18.50
802.11be-EHT20 MCS0		149	5745	15.50	15.50	18.50
		157	5785	15.50	15.50	18.50
		165	5825	15.50	15.50	18.50
802.11be-EHT40 MCS0		151	5755	15.50	15.50	18.50
		159	5795	15.50	15.50	18.50
802.11be-EHT80 MCS0		155	5775	15.50	15.50	18.50



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11n-HT20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11n-HT40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
	802.11ac-VHT20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11ac-VHT40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
	802.11ac-VHT80 MCS0	171	5855	16.50	16.50	19.50
	802.11ac-VHT160 MCS0	163	5815	16.50	16.50	19.50
	802.11ax-HE20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11ax-HE40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
802.11ax-HE80 MCS0	171	5855	16.50	16.50	19.50	
802.11ax-HE160 MCS0	163	5815	16.50	16.50	19.50	
802.11be-EHT20 MCS0	169	5845	16.50	16.50	19.50	
	173	5865	16.50	16.50	19.50	
	177	5885	16.50	16.50	19.50	
802.11be-EHT40 MCS0	167	5835	16.50	16.50	19.50	
	175	5875	16.50	16.50	19.50	
802.11be-EHT80 MCS0	171	5855	16.50	16.50	19.50	
802.11be-EHT160 MCS0	163	5815	16.50	16.50	19.50	



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<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	12.50		802.11b 1Mbps	1	2412	12.50
		6	2437	12.50			6	2437	12.50
		11	2462	12.50			11	2462	12.50
		12	2467	12.50			12	2467	12.50
		13	2472	12.50			13	2472	12.50

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	12.50	12.50	15.50
		6	2437	12.50	12.50	15.50
		11	2462	12.50	12.50	15.50
		12	2467	12.50	12.50	15.50
		13	2472	12.50	12.50	15.50
	802.11n-HT20 MCS0	1	2412	12.50	12.50	15.50
		6	2437	12.50	12.50	15.50
		11	2462	12.50	12.50	15.50
		12	2467	12.50	12.50	15.50
		13	2472	12.50	12.50	15.50
	802.11ac-VHT20 MCS0	1	2412	12.50	12.50	15.50
		6	2437	12.50	12.50	15.50
		11	2462	12.50	12.50	15.50
		12	2467	12.50	12.50	15.50
		13	2472	12.50	12.50	15.50
	802.11ax-HE20 MCS0	1	2412	12.50	12.50	15.50
		6	2437	12.50	12.50	15.50
		11	2462	12.50	12.50	15.50
		12	2467	12.50	12.50	15.50
13		2472	12.50	12.50	15.50	
802.11be-EHT20 MCS0	1	2412	12.50	12.50	15.50	
	6	2437	12.50	12.50	15.50	
	11	2462	12.50	12.50	15.50	
	12	2467	12.50	12.50	15.50	
	13	2472	12.50	12.50	15.50	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11n-HT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11n-HT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	42	5210	14.50	14.50	17.50
	802.11ax-HE20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11ax-HE40 MCS0	38	5190	14.50	14.50	17.50
46		5230	14.50	14.50	17.50	
802.11ax-HE80 MCS0	42	5210	14.50	14.50	17.50	
802.11be-EHT20 MCS0	36	5180	14.50	14.50	17.50	
	40	5200	14.50	14.50	17.50	
	44	5220	14.50	14.50	17.50	
	48	5240	14.50	14.50	17.50	
802.11be-EHT40 MCS0	38	5190	14.50	14.50	17.50	
	46	5230	14.50	14.50	17.50	
802.11be-EHT80 MCS0	42	5210	14.50	14.50	17.50	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11n-HT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11n-HT40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	58	5290	14.50	14.50	17.50
	802.11ac-VHT160 MCS0	50	5250	14.5	14.5	17.5
	802.11ax-HE20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
	802.11ax-HE40 MCS0	54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
	802.11ax-HE80 MCS0	58	5290	14.50	14.50	17.50
	802.11ax-HE160 MCS0	50	5250	14.5	14.5	17.5
	802.11be-EHT20 MCS0	52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
60		5300	14.50	14.50	17.50	
64		5320	14.50	14.50	17.50	
802.11be-EHT40 MCS0	54	5270	14.50	14.50	17.50	
	62	5310	14.50	14.50	17.50	
802.11be-EHT80 MCS0	58	5290	14.50	14.50	17.50	
802.11be-EHT160 MCS0	50	5250	14.5	14.5	17.5	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.5GHz WLAN	802.11a 6Mbps	100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
	802.11n-HT20 MCS0	100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
	802.11n-HT40 MCS0	102	5510	15.00	15.00	18.00
		110	5550	15.00	15.00	18.00
		126	5630	15.00	15.00	18.00
		134	5670	15.00	15.00	18.00
	802.11ac-VHT20 MCS0	142	5710	15.00	15.00	18.00
		100	5500	15.00	15.00	18.00
		116	5580	15.00	15.00	18.00
		124	5620	15.00	15.00	18.00
	802.11ac-VHT40 MCS0	132	5660	15.00	15.00	18.00
		144	5720	15.00	15.00	18.00
		102	5510	15.00	15.00	18.00
110		5550	15.00	15.00	18.00	
802.11ac-VHT80 MCS0	126	5630	15.00	15.00	18.00	
	134	5670	15.00	15.00	18.00	
	142	5710	15.00	15.00	18.00	
	106	5530	15.00	15.00	18.00	
802.11ac-VHT160 MCS0	122	5610	15.00	15.00	18.00	
	138	5690	15.00	15.00	18.00	
	114	5570	15.00	15.00	18.00	
802.11ax-HE20 MCS0	100	5500	15.00	15.00	18.00	
	116	5580	15.00	15.00	18.00	
	124	5620	15.00	15.00	18.00	
	132	5660	15.00	15.00	18.00	
	144	5720	15.00	15.00	18.00	
802.11ax-HE40 MCS0	102	5510	15.00	15.00	18.00	
	110	5550	15.00	15.00	18.00	
	126	5630	15.00	15.00	18.00	
	134	5670	15.00	15.00	18.00	
	142	5710	15.00	15.00	18.00	
802.11ax-HE80 MCS0	106	5530	15.00	15.00	18.00	
	122	5610	15.00	15.00	18.00	
	138	5690	15.00	15.00	18.00	
802.11ax-HE160 MCS0	114	5570	15.00	15.00	18.00	
802.11be-EHT20 MCS0	100	5500	15.00	15.00	18.00	
	116	5580	15.00	15.00	18.00	
	124	5620	15.00	15.00	18.00	
	132	5660	15.00	15.00	18.00	
	144	5720	15.00	15.00	18.00	
802.11be-EHT40 MCS0	102	5510	15.00	15.00	18.00	
	110	5550	15.00	15.00	18.00	
	126	5630	15.00	15.00	18.00	
	134	5670	15.00	15.00	18.00	
	142	5710	15.00	15.00	18.00	
802.11be-EHT80 MCS0	106	5530	15.00	15.00	18.00	
	122	5610	15.00	15.00	18.00	
	138	5690	15.00	15.00	18.00	
802.11be-EHT160 MCS0	114	5570	15.00	15.00	18.00	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11n-HT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11n-HT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ac-VHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT80 MCS0		155	5775	15.00	15.00	18.00
802.11ax-HE20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ax-HE40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ax-HE80 MCS0		155	5775	15.00	15.00	18.00
802.11be-EHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11be-EHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11be-EHT80 MCS0		155	5775	15.00	15.00	18.00



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11n-HT20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11n-HT40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
	802.11ac-VHT20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11ac-VHT40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
	802.11ac-VHT80 MCS0	171	5855	16.50	16.50	19.50
	802.11ac-VHT160 MCS0	163	5815	16.50	16.50	19.50
	802.11ax-HE20 MCS0	169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
	802.11ax-HE40 MCS0	167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
802.11ax-HE80 MCS0	171	5855	16.50	16.50	19.50	
802.11ax-HE160 MCS0	163	5815	16.50	16.50	19.50	
802.11be-EHT20 MCS0	169	5845	16.50	16.50	19.50	
	173	5865	16.50	16.50	19.50	
	177	5885	16.50	16.50	19.50	
802.11be-EHT40 MCS0	167	5835	16.50	16.50	19.50	
	175	5875	16.50	16.50	19.50	
802.11be-EHT80 MCS0	171	5855	16.50	16.50	19.50	
802.11be-EHT160 MCS0	163	5815	16.50	16.50	19.50	



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<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	10.00		802.11b 1Mbps	1	2412	10.00
		6	2437	10.00			6	2437	10.00
		11	2462	10.00			11	2462	10.00
		12	2467	10.00			12	2467	10.00
		13	2472	10.00			13	2472	10.00

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	10.00	10.00	13.00
		6	2437	10.00	10.00	13.00
		11	2462	10.00	10.00	13.00
		12	2467	10.00	10.00	13.00
		13	2472	10.00	10.00	13.00
	802.11n-HT20 MCS0	1	2412	10.00	10.00	13.00
		6	2437	10.00	10.00	13.00
		11	2462	10.00	10.00	13.00
		12	2467	10.00	10.00	13.00
	802.11ac-VHT20 MCS0	1	2412	10.00	10.00	13.00
		6	2437	10.00	10.00	13.00
		11	2462	10.00	10.00	13.00
		12	2467	10.00	10.00	13.00
	802.11ax-HE20 MCS0	1	2412	10.00	10.00	13.00
		6	2437	10.00	10.00	13.00
		11	2462	10.00	10.00	13.00
		12	2467	10.00	10.00	13.00
	802.11be-EHT20 MCS0	1	2412	10.00	10.00	13.00
		6	2437	10.00	10.00	13.00
11		2462	10.00	10.00	13.00	
12		2467	10.00	10.00	13.00	
	13	2472	10.00	10.00	13.00	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.50	10.50	13.50
		40	5200	10.50	10.50	13.50
		44	5220	10.50	10.50	13.50
		48	5240	10.50	10.50	13.50
	802.11n-HT20 MCS0	36	5180	10.50	10.50	13.50
		40	5200	10.50	10.50	13.50
		44	5220	10.50	10.50	13.50
		48	5240	10.50	10.50	13.50
	802.11n-HT40 MCS0	38	5190	10.50	10.50	13.50
		46	5230	10.50	10.50	13.50
	802.11ac-VHT20 MCS0	36	5180	10.50	10.50	13.50
		40	5200	10.50	10.50	13.50
		44	5220	10.50	10.50	13.50
		48	5240	10.50	10.50	13.50
	802.11ac-VHT40 MCS0	38	5190	10.50	10.50	13.50
		46	5230	10.50	10.50	13.50
	802.11ac-VHT80 MCS0	42	5210	10.50	10.50	13.50
	802.11ax-HE20 MCS0	36	5180	10.50	10.50	13.50
		40	5200	10.50	10.50	13.50
		44	5220	10.50	10.50	13.50
		48	5240	10.50	10.50	13.50
	802.11ax-HE40 MCS0	38	5190	10.50	10.50	13.50
		46	5230	10.50	10.50	13.50
	802.11ax-HE80 MCS0	42	5210	10.50	10.50	13.50
	802.11be-EHT20 MCS0	36	5180	10.50	10.50	13.50
		40	5200	10.50	10.50	13.50
		44	5220	10.50	10.50	13.50
		48	5240	10.50	10.50	13.50
802.11be-EHT40 MCS0	38	5190	10.50	10.50	13.50	
	46	5230	10.50	10.50	13.50	
802.11be-EHT80 MCS0	42	5210	10.50	10.50	13.50	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	10.50	10.50	13.50
		56	5280	10.50	10.50	13.50
		60	5300	10.50	10.50	13.50
		64	5320	10.50	10.50	13.50
	802.11n-HT20 MCS0	52	5260	10.50	10.50	13.50
		56	5280	10.50	10.50	13.50
		60	5300	10.50	10.50	13.50
		64	5320	10.50	10.50	13.50
	802.11n-HT40 MCS0	54	5270	10.50	10.50	13.50
		62	5310	10.50	10.50	13.50
	802.11ac-VHT20 MCS0	52	5260	10.50	10.50	13.50
		56	5280	10.50	10.50	13.50
		60	5300	10.50	10.50	13.50
		64	5320	10.50	10.50	13.50
	802.11ac-VHT40 MCS0	54	5270	10.50	10.50	13.50
		62	5310	10.50	10.50	13.50
	802.11ac-VHT80 MCS0	58	5290	10.50	10.50	13.50
	802.11ac-VHT160 MCS0	50	5250	10.50	10.50	13.50
	802.11ax-HE20 MCS0	52	5260	10.50	10.50	13.50
		56	5280	10.50	10.50	13.50
		60	5300	10.50	10.50	13.50
		64	5320	10.50	10.50	13.50
	802.11ax-HE40 MCS0	54	5270	10.50	10.50	13.50
		62	5310	10.50	10.50	13.50
	802.11ax-HE80 MCS0	58	5290	10.50	10.50	13.50
	802.11ax-HE160 MCS0	50	5250	10.50	10.50	13.50
	802.11be-EHT20 MCS0	52	5260	10.50	10.50	13.50
		56	5280	10.50	10.50	13.50
		60	5300	10.50	10.50	13.50
		64	5320	10.50	10.50	13.50
	802.11be-EHT40 MCS0	54	5270	10.50	10.50	13.50
		62	5310	10.50	10.50	13.50
802.11be-EHT80 MCS0	58	5290	10.50	10.50	13.50	
802.11be-EHT160 MCS0	50	5250	10.50	10.50	13.50	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		100	5500	11.00	11.00	14.00
		116	5580	11.00	11.00	14.00
		124	5620	11.00	11.00	14.00
		132	5660	11.00	11.00	14.00
		144	5720	11.00	11.00	14.00
802.11n-HT20 MCS0		100	5500	11.00	11.00	14.00
		116	5580	11.00	11.00	14.00
		124	5620	11.00	11.00	14.00
		144	5720	11.00	11.00	14.00
802.11n-HT40 MCS0		102	5510	11.00	11.00	14.00
		110	5550	11.00	11.00	14.00
		126	5630	11.00	11.00	14.00
		134	5670	11.00	11.00	14.00
802.11ac-VHT20 MCS0		142	5710	11.00	11.00	14.00
		100	5500	11.00	11.00	14.00
		116	5580	11.00	11.00	14.00
		124	5620	11.00	11.00	14.00
802.11ac-VHT40 MCS0		132	5660	11.00	11.00	14.00
		144	5720	11.00	11.00	14.00
		102	5510	11.00	11.00	14.00
		110	5550	11.00	11.00	14.00
802.11ac-VHT80 MCS0		126	5630	11.00	11.00	14.00
		134	5670	11.00	11.00	14.00
		142	5710	11.00	11.00	14.00
		106	5530	11.00	11.00	14.00
802.11ac-VHT160 MCS0		122	5610	11.00	11.00	14.00
		138	5690	11.00	11.00	14.00
		114	5570	11.00	11.00	14.00
802.11ax-HE20 MCS0		100	5500	11.00	11.00	14.00
		116	5580	11.00	11.00	14.00
		124	5620	11.00	11.00	14.00
		132	5660	11.00	11.00	14.00
		144	5720	11.00	11.00	14.00
802.11ax-HE40 MCS0		102	5510	11.00	11.00	14.00
		110	5550	11.00	11.00	14.00
		126	5630	11.00	11.00	14.00
		134	5670	11.00	11.00	14.00
		142	5710	11.00	11.00	14.00
802.11ax-HE80 MCS0		106	5530	11.00	11.00	14.00
		122	5610	11.00	11.00	14.00
		138	5690	11.00	11.00	14.00
802.11ax-HE160 MCS0		114	5570	11.00	11.00	14.00
802.11be-EHT20 MCS0		100	5500	11.00	11.00	14.00
		116	5580	11.00	11.00	14.00
		124	5620	11.00	11.00	14.00
		132	5660	11.00	11.00	14.00
		144	5720	11.00	11.00	14.00
802.11be-EHT40 MCS0		102	5510	11.00	11.00	14.00
		110	5550	11.00	11.00	14.00
		126	5630	11.00	11.00	14.00
		134	5670	11.00	11.00	14.00
		142	5710	11.00	11.00	14.00
802.11be-EHT80 MCS0		106	5530	11.00	11.00	14.00
		122	5610	11.00	11.00	14.00
		138	5690	11.00	11.00	14.00
802.11be-EHT160 MCS0		114	5570	11.00	11.00	14.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	11.00	11.00	14.00
		157	5785	11.00	11.00	14.00
		165	5825	11.00	11.00	14.00
802.11n-HT20 MCS0		149	5745	11.00	11.00	14.00
		157	5785	11.00	11.00	14.00
		165	5825	11.00	11.00	14.00
802.11n-HT40 MCS0		151	5755	11.00	11.00	14.00
		159	5795	11.00	11.00	14.00
802.11ac-VHT20 MCS0		149	5745	11.00	11.00	14.00
		157	5785	11.00	11.00	14.00
		165	5825	11.00	11.00	14.00
802.11ac-VHT40 MCS0		151	5755	11.00	11.00	14.00
		159	5795	11.00	11.00	14.00
802.11ac-VHT80 MCS0		155	5775	11.00	11.00	14.00
802.11ax-HE20 MCS0		149	5745	11.00	11.00	14.00
		157	5785	11.00	11.00	14.00
		165	5825	11.00	11.00	14.00
802.11ax-HE40 MCS0		151	5755	11.00	11.00	14.00
		159	5795	11.00	11.00	14.00
802.11ax-HE80 MCS0		155	5775	11.00	11.00	14.00
802.11be-EHT20 MCS0		149	5745	11.00	11.00	14.00
		157	5785	11.00	11.00	14.00
		165	5825	11.00	11.00	14.00
802.11be-EHT40 MCS0		151	5755	11.00	11.00	14.00
		159	5795	11.00	11.00	14.00
802.11be-EHT80 MCS0		155	5775	11.00	11.00	14.00



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.9GHz WLAN	802.11a 6Mbps	169	5845	11.00	11.00	14.00
		173	5865	11.00	11.00	14.00
		177	5885	11.00	11.00	14.00
	802.11n-HT20 MCS0	169	5845	11.00	11.00	14.00
		173	5865	11.00	11.00	14.00
		177	5885	11.00	11.00	14.00
	802.11n-HT40 MCS0	167	5835	11.00	11.00	14.00
		175	5875	11.00	11.00	14.00
	802.11ac-VHT20 MCS0	169	5845	11.00	11.00	14.00
		173	5865	11.00	11.00	14.00
		177	5885	11.00	11.00	14.00
	802.11ac-VHT40 MCS0	167	5835	11.00	11.00	14.00
		175	5875	11.00	11.00	14.00
	802.11ac-VHT80 MCS0	171	5855	11.00	11.00	14.00
	802.11ac-VHT160 MCS0	163	5815	11.00	11.00	14.00
	802.11ax-HE20 MCS0	169	5845	11.00	11.00	14.00
		173	5865	11.00	11.00	14.00
		177	5885	11.00	11.00	14.00
	802.11ax-HE40 MCS0	167	5835	11.00	11.00	14.00
		175	5875	11.00	11.00	14.00
	802.11ax-HE80 MCS0	171	5855	11.00	11.00	14.00
802.11ax-HE160 MCS0	163	5815	11.00	11.00	14.00	
802.11be-EHT20 MCS0	169	5845	11.00	11.00	14.00	
	173	5865	11.00	11.00	14.00	
	177	5885	11.00	11.00	14.00	
802.11be-EHT40 MCS0	167	5835	11.00	11.00	14.00	
	175	5875	11.00	11.00	14.00	
802.11be-EHT80 MCS0	171	5855	11.00	11.00	14.00	
802.11be-EHT160 MCS0	163	5815	11.00	11.00	14.00	



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<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	21.00		802.11b 1Mbps	1	2412	21.00
		6	2437	21.00			6	2437	21.00
		11	2462	21.00			11	2462	21.00
		12	2467	21.00			12	2467	21.00
		13	2472	21.00			13	2472	20.00

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	20.00	20.00	23.00
		12	2467	16.50	16.50	19.50
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
		13	2472	13.50	13.50	16.50
	802.11ac-VHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
		13	2472	13.50	13.50	16.50
	802.11ax-HE20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
		13	2472	13.50	13.50	16.50
	802.11be-EHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	19.00	19.00	22.00
12		2467	16.00	16.00	19.00	
13		2472	13.50	13.50	16.50	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	36	5180	19.50	19.50	22.50
		40	5200	19.50	19.50	22.50
		44	5220	19.50	19.50	22.50
		48	5240	19.50	19.50	22.50
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.50	19.50	22.50
		44	5220	19.50	19.50	22.50
	802.11n-HT40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.50	19.50	22.50
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.50	19.50	22.50
		44	5220	19.50	19.50	22.50
	802.11ac-VHT40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.50	19.50	22.50
	802.11ac-VHT80 MCS0	42	5210	17.00	17.00	20.00
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.50	19.50	22.50
		44	5220	19.50	19.50	22.50
		48	5240	19.50	19.50	22.50
	802.11ax-HE40 MCS0	38	5190	17.00	17.00	20.00
46		5230	19.50	19.50	22.50	
802.11ax-HE80 MCS0	42	5210	17.00	17.00	20.00	
802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	19.50	19.50	22.50	
	44	5220	19.50	19.50	22.50	
	48	5240	19.50	19.50	22.50	
802.11be-EHT40 MCS0	38	5190	17.00	17.00	20.00	
	46	5230	19.50	19.50	22.50	
802.11be-EHT80 MCS0	42	5210	17.00	17.00	20.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.50	19.50	22.50
		56	5280	19.50	19.50	22.50
		60	5300	19.50	19.50	22.50
		64	5320	19.00	19.00	22.00
	802.11n-HT20 MCS0	52	5260	19.50	19.50	22.50
		56	5280	19.50	19.50	22.50
		60	5300	19.50	19.50	22.50
		64	5320	19.00	19.00	22.00
	802.11n-HT40 MCS0	54	5270	19.50	19.50	22.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT20 MCS0	52	5260	19.50	19.50	22.50
		56	5280	19.50	19.50	22.50
		60	5300	19.50	19.50	22.50
		64	5320	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	54	5270	19.50	19.50	22.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	50	5250	15	15	18
	802.11ax-HE20 MCS0	52	5260	19.50	19.50	22.50
		56	5280	19.50	19.50	22.50
		60	5300	19.50	19.50	22.50
		64	5320	19.00	19.00	22.00
	802.11ax-HE40 MCS0	54	5270	19.50	19.50	22.50
		62	5310	17.00	17.00	20.00
	802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00
	802.11ax-HE160 MCS0	50	5250	15	15	18
	802.11be-EHT20 MCS0	52	5260	19.50	19.50	22.50
		56	5280	19.50	19.50	22.50
60		5300	19.50	19.50	22.50	
64		5320	19.00	19.00	22.00	
802.11be-EHT40 MCS0	54	5270	19.50	19.50	22.50	
	62	5310	17.00	17.00	20.00	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15	15	18	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
	802.11n-HT20 MCS0	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
	802.11n-HT40 MCS0	144	5720	19.50	19.50	22.50
		102	5510	16.50	16.50	19.50
		110	5550	19.50	19.50	22.50
		126	5630	19.50	19.50	22.50
	802.11ac-VHT20 MCS0	134	5670	19.50	19.50	22.50
		142	5710	19.50	19.50	22.50
		100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
	802.11ac-VHT40 MCS0	124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
		102	5510	16.50	16.50	19.50
	802.11ac-VHT80 MCS0	110	5550	19.50	19.50	22.50
		126	5630	19.50	19.50	22.50
		134	5670	19.50	19.50	22.50
		142	5710	19.50	19.50	22.50
	802.11ac-VHT160 MCS0	106	5530	17.00	17.00	20.00
		122	5610	19.50	19.50	22.50
		138	5690	19.50	19.50	22.50
	802.11ax-HE20 MCS0	114	5570	16.50	16.50	19.50
		100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
	802.11ax-HE40 MCS0	144	5720	19.50	19.50	22.50
		102	5510	16.50	16.50	19.50
		110	5550	19.50	19.50	22.50
		126	5630	19.50	19.50	22.50
	802.11ax-HE80 MCS0	134	5670	19.50	19.50	22.50
		142	5710	19.50	19.50	22.50
		106	5530	17.00	17.00	20.00
802.11ax-HE160 MCS0	122	5610	19.50	19.50	22.50	
	138	5690	19.50	19.50	22.50	
802.11be-EHT20 MCS0	114	5570	16.50	16.50	19.50	
	100	5500	19.50	19.50	22.50	
	116	5580	19.50	19.50	22.50	
	124	5620	19.50	19.50	22.50	
	132	5660	19.50	19.50	22.50	
802.11be-EHT40 MCS0	144	5720	19.50	19.50	22.50	
	102	5510	16.50	16.50	19.50	
	110	5550	19.50	19.50	22.50	
	126	5630	19.50	19.50	22.50	
802.11be-EHT80 MCS0	134	5670	19.50	19.50	22.50	
	142	5710	19.50	19.50	22.50	
	106	5530	17.00	17.00	20.00	
802.11be-EHT160 MCS0	122	5610	19.50	19.50	22.50	
	138	5690	19.50	19.50	22.50	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	20.00	20.00	23.00
	802.11ax-HE20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ax-HE40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ax-HE80 MCS0	155	5775	20.00	20.00	23.00
	802.11be-EHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11be-EHT40 MCS0	151	5755	20.00	20.00	23.00
159		5795	20.00	20.00	23.00	
802.11be-EHT80 MCS0	155	5775	20.00	20.00	23.00	



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.9GHz WLAN	802.11a 6Mbps	169	5845	20.50	20.50	23.50
		173	5865	20.50	20.50	23.50
		177	5885	20.50	20.50	23.50
	802.11n-HT20 MCS0	169	5845	20.50	20.50	23.50
		173	5865	20.50	20.50	23.50
		177	5885	20.50	20.50	23.50
	802.11n-HT40 MCS0	167	5835	20.00	20.00	23.00
		175	5875	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	169	5845	20.50	20.50	23.50
		173	5865	20.50	20.50	23.50
		177	5885	20.50	20.50	23.50
	802.11ac-VHT40 MCS0	167	5835	20.00	20.00	23.00
		175	5875	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	171	5855	20.00	20.00	23.00
	802.11ac-VHT160 MCS0	163	5815	19.00	19.00	22.00
	802.11ax-HE20 MCS0	169	5845	20.50	20.50	23.50
		173	5865	20.50	20.50	23.50
		177	5885	20.50	20.50	23.50
	802.11ax-HE40 MCS0	167	5835	20.00	20.00	23.00
		175	5875	20.00	20.00	23.00
802.11ax-HE80 MCS0	171	5855	20.00	20.00	23.00	
802.11ax-HE160 MCS0	163	5815	19.00	19.00	22.00	
802.11be-EHT20 MCS0	169	5845	20.50	20.50	23.50	
	173	5865	20.50	20.50	23.50	
	177	5885	20.50	20.50	23.50	
802.11be-EHT40 MCS0	167	5835	20.00	20.00	23.00	
	175	5875	20.00	20.00	23.00	
802.11be-EHT80 MCS0	171	5855	20.00	20.00	23.00	
802.11be-EHT160 MCS0	163	5815	19.00	19.00	22.00	



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<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	21.00		802.11b 1Mbps	1	2412	21.00
		6	2437	21.00			6	2437	21.00
		11	2462	21.00			11	2462	21.00
		12	2467	21.00			12	2467	21.00
		13	2472	21.00			13	2472	20.00

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	20.00	20.00	23.00
		12	2467	16.50	16.50	19.50
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
	802.11ac-VHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
	802.11ax-HE20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	16.00	16.00	19.00
	802.11be-EHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
11		2462	19.00	19.00	22.00	
12		2467	16.00	16.00	19.00	
		13	2472	13.50	13.50	16.50



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
	802.11n-HT40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0	42	5210	17.00	17.00	20.00
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11ax-HE40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.00	19.00	22.00
	802.11ax-HE80 MCS0	42	5210	17.00	17.00	20.00
	802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11be-EHT40 MCS0	38	5190	17.00	17.00	20.00
		46	5230	19.00	19.00	22.00
802.11be-EHT80 MCS0	42	5210	17.00	17.00	20.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
	802.11n-HT20 MCS0	52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
	802.11n-HT40 MCS0	54	5270	19.00	19.00	22.00
		62	5310	17.00	17.00	20.00
	802.11ac-VHT20 MCS0	52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	54	5270	19.00	19.00	22.00
		62	5310	17.00	17.00	20.00
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	50	5250	15	15	18
	802.11ax-HE20 MCS0	52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
	802.11ax-HE40 MCS0	54	5270	19.00	19.00	22.00
		62	5310	17.00	17.00	20.00
	802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00
	802.11ax-HE160 MCS0	50	5250	15	15	18
	802.11be-EHT20 MCS0	52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
60		5300	19.00	19.00	22.00	
64		5320	19.00	19.00	22.00	
802.11be-EHT40 MCS0	54	5270	19.00	19.00	22.00	
	62	5310	17.00	17.00	20.00	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15	15	18	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11n-HT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
802.11n-HT40 MCS0		144	5720	18.50	18.50	21.50
		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
802.11ac-VHT20 MCS0		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
802.11ac-VHT40 MCS0		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
		102	5510	16.50	16.50	19.50
802.11ac-VHT80 MCS0		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ac-VHT160 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
802.11ax-HE20 MCS0		114	5570	16.50	16.50	19.50
		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
802.11ax-HE40 MCS0		144	5720	18.50	18.50	21.50
		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
802.11ax-HE80 MCS0		142	5710	18.50	18.50	21.50
		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
802.11ax-HE160 MCS0		114	5570	16.50	16.50	19.50
802.11be-EHT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11be-EHT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11be-EHT80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
802.11be-EHT160 MCS0		114	5570	16.50	16.50	19.50



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
	802.11n-HT20 MCS0	149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
	802.11n-HT40 MCS0	151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
	802.11ac-VHT20 MCS0	149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
	802.11ac-VHT40 MCS0	151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
	802.11ac-VHT80 MCS0	155	5775	18.00	18.00	21.00
	802.11ax-HE20 MCS0	149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
	802.11ax-HE40 MCS0	151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
	802.11ax-HE80 MCS0	155	5775	18.00	18.00	21.00
	802.11be-EHT20 MCS0	149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
	802.11be-EHT40 MCS0	151	5755	18.00	18.00	21.00
159		5795	18.00	18.00	21.00	
802.11be-EHT80 MCS0	155	5775	18.00	18.00	21.00	



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
	802.11n-HT20 MCS0	169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
	802.11n-HT40 MCS0	167	5835	19.00	19.00	22.00
		175	5875	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	167	5835	19.00	19.00	22.00
		175	5875	19.00	19.00	22.00
	802.11ac-VHT80 MCS0	171	5855	19.00	19.00	22.00
	802.11ac-VHT160 MCS0	163	5815	19.00	19.00	22.00
	802.11ax-HE20 MCS0	169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
	802.11ax-HE40 MCS0	167	5835	19.00	19.00	22.00
		175	5875	19.00	19.00	22.00
802.11ax-HE80 MCS0	171	5855	19.00	19.00	22.00	
802.11ax-HE160 MCS0	163	5815	19.00	19.00	22.00	
802.11be-EHT20 MCS0	169	5845	19.00	19.00	22.00	
	173	5865	19.00	19.00	22.00	
	177	5885	19.00	19.00	22.00	
802.11be-EHT40 MCS0	167	5835	19.00	19.00	22.00	
	175	5875	19.00	19.00	22.00	
802.11be-EHT80 MCS0	171	5855	19.00	19.00	22.00	
802.11be-EHT160 MCS0	163	5815	19.00	19.00	22.00	



<Power index 7>

<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	17.00		802.11b 1Mbps	1	2412	17.00
		6	2437	17.00			6	2437	17.00
		11	2462	17.00			11	2462	17.00
		12	2467	17.00			12	2467	17.00
		13	2472	17.00			13	2472	17.00

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	17.00	17.00	20.00
		6	2437	17.00	17.00	20.00
		11	2462	17.00	17.00	20.00
		12	2467	16.50	16.50	19.50
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	17.00	17.00	20.00
		6	2437	17.00	17.00	20.00
		11	2462	17.00	17.00	20.00
		12	2467	16.00	16.00	19.00
		13	2472	13.50	13.50	16.50
	802.11ac-VHT20 MCS0	1	2412	17.00	17.00	20.00
		6	2437	17.00	17.00	20.00
		11	2462	17.00	17.00	20.00
		12	2467	16.00	16.00	19.00
		13	2472	13.50	13.50	16.50
	802.11ax-HE20 MCS0	1	2412	17.00	17.00	20.00
		6	2437	17.00	17.00	20.00
		11	2462	17.00	17.00	20.00
		12	2467	16.00	16.00	19.00
13		2472	13.50	13.50	16.50	
802.11be-EHT20 MCS0	1	2412	17.00	17.00	20.00	
	6	2437	17.00	17.00	20.00	
	11	2462	17.00	17.00	20.00	
	12	2467	16.00	16.00	19.00	
	13	2472	13.50	13.50	16.50	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11n-HT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
	802.11n-HT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
	802.11ac-VHT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT80 MCS0	42	5210	15.00	15.00	18.00
	802.11ax-HE20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11ax-HE40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ax-HE80 MCS0	42	5210	15.00	15.00	18.00
	802.11be-EHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11be-EHT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
802.11be-EHT80 MCS0	42	5210	15.00	15.00	18.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.50	18.50	21.50
		56	5280	18.50	18.50	21.50
		60	5300	18.50	18.50	21.50
		64	5320	18.50	18.50	21.50
	802.11n-HT20 MCS0	52	5260	18.50	18.50	21.50
		56	5280	18.50	18.50	21.50
		60	5300	18.50	18.50	21.50
		64	5320	18.50	18.50	21.50
	802.11n-HT40 MCS0	54	5270	18.50	18.50	21.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT20 MCS0	52	5260	18.50	18.50	21.50
		56	5280	18.50	18.50	21.50
		60	5300	18.50	18.50	21.50
		64	5320	18.50	18.50	21.50
	802.11ac-VHT40 MCS0	54	5270	18.50	18.50	21.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	50	5250	15	15	18
	802.11ax-HE20 MCS0	52	5260	18.50	18.50	21.50
		56	5280	18.50	18.50	21.50
		60	5300	18.50	18.50	21.50
		64	5320	18.50	18.50	21.50
	802.11ax-HE40 MCS0	54	5270	18.50	18.50	21.50
		62	5310	17.00	17.00	20.00
	802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00
	802.11ax-HE160 MCS0	50	5250	15	15	18
	802.11be-EHT20 MCS0	52	5260	18.50	18.50	21.50
		56	5280	18.50	18.50	21.50
60		5300	18.50	18.50	21.50	
64		5320	18.50	18.50	21.50	
802.11be-EHT40 MCS0	54	5270	18.50	18.50	21.50	
	62	5310	17.00	17.00	20.00	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15	15	18	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11n-HT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11n-HT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ac-VHT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11ac-VHT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ac-VHT80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11ac-VHT160 MCS0		114	5570	16.50	16.50	19.50
802.11ax-HE20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11ax-HE40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ax-HE80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11ax-HE160 MCS0		114	5570	16.50	16.50	19.50
802.11be-EHT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11be-EHT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11be-EHT80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11be-EHT160 MCS0		114	5570	16.50	16.50	19.50



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
802.11n-HT20 MCS0		149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
802.11n-HT40 MCS0		151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
802.11ac-VHT20 MCS0		149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
802.11ac-VHT40 MCS0		151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
802.11ac-VHT80 MCS0		155	5775	18.00	18.00	21.00
802.11ax-HE20 MCS0		149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
802.11ax-HE40 MCS0		151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
802.11ax-HE80 MCS0		155	5775	18.00	18.00	21.00
802.11be-EHT20 MCS0		149	5745	18.00	18.00	21.00
		157	5785	18.00	18.00	21.00
		165	5825	18.00	18.00	21.00
802.11be-EHT40 MCS0		151	5755	18.00	18.00	21.00
		159	5795	18.00	18.00	21.00
802.11be-EHT80 MCS0		155	5775	18.00	18.00	21.00



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ac-VHT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT80 MCS0	171	5855	18.50	18.50	21.50
	802.11ac-VHT160 MCS0	163	5815	18.50	18.50	21.50
	802.11ax-HE20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ax-HE40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0	171	5855	18.50	18.50	21.50	
802.11ax-HE160 MCS0	163	5815	18.50	18.50	21.50	
802.11be-EHT20 MCS0	169	5845	18.50	18.50	21.50	
	173	5865	18.50	18.50	21.50	
	177	5885	18.50	18.50	21.50	
802.11be-EHT40 MCS0	167	5835	18.50	18.50	21.50	
	175	5875	18.50	18.50	21.50	
802.11be-EHT80 MCS0	171	5855	18.50	18.50	21.50	
802.11be-EHT160 MCS0	163	5815	18.50	18.50	21.50	



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<2.4GHz WLAN>

Burst Average Power (dBm)					Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit	2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	14.50		802.11b 1Mbps	1	2412	14.50
		6	2437	14.50			6	2437	14.50
		11	2462	14.50			11	2462	14.50
		12	2467	14.50			12	2467	14.50
		13	2472	14.50			13	2472	14.50

Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11g 6Mbps	1	2412	14.50	14.50	17.50
		6	2437	14.50	14.50	17.50
		11	2462	14.50	14.50	17.50
		12	2467	14.50	14.50	17.50
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	14.50	14.50	17.50
		6	2437	14.50	14.50	17.50
		11	2462	14.50	14.50	17.50
		12	2467	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	13	2472	13.50	13.50	16.50
		1	2412	14.50	14.50	17.50
		6	2437	14.50	14.50	17.50
		11	2462	14.50	14.50	17.50
	802.11ax-HE20 MCS0	12	2467	14.50	14.50	17.50
		13	2472	13.50	13.50	16.50
		1	2412	14.50	14.50	17.50
		6	2437	14.50	14.50	17.50
	802.11be-EHT20 MCS0	11	2462	14.50	14.50	17.50
		12	2467	14.50	14.50	17.50
13		2472	13.50	13.50	16.50	
1		2412	14.50	14.50	17.50	



<5GHz WLAN>

Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11n-HT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
	802.11n-HT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
	802.11ac-VHT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT80 MCS0	42	5210	15.00	15.00	18.00
	802.11ax-HE20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11ax-HE40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ax-HE80 MCS0	42	5210	15.00	15.00	18.00
	802.11be-EHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11be-EHT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
802.11be-EHT80 MCS0	42	5210	15.00	15.00	18.00	



Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11n-HT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11n-HT40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11ac-VHT40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	50	5250	15	15	18
	802.11ax-HE20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11ax-HE40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00
	802.11ax-HE160 MCS0	50	5250	15	15	18
	802.11be-EHT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
802.11be-EHT40 MCS0	54	5270	17.50	17.50	20.50	
	62	5310	17.00	17.00	20.00	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15	15	18	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
	802.11n-HT20 MCS0	100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
	802.11n-HT40 MCS0	102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
	802.11ac-VHT20 MCS0	142	5710	18.50	18.50	21.50
		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
	802.11ac-VHT40 MCS0	132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
	802.11ac-VHT80 MCS0	126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
		106	5530	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
	802.11ax-HE20 MCS0	100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
	802.11ax-HE40 MCS0	102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
	802.11ax-HE80 MCS0	106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
138		5690	18.50	18.50	21.50	
802.11ax-HE160 MCS0	114	5570	16.50	16.50	19.50	
802.11be-EHT20 MCS0	100	5500	18.50	18.50	21.50	
	116	5580	18.50	18.50	21.50	
	124	5620	18.50	18.50	21.50	
	132	5660	18.50	18.50	21.50	
802.11be-EHT40 MCS0	144	5720	18.50	18.50	21.50	
	102	5510	16.50	16.50	19.50	
	110	5550	18.50	18.50	21.50	
	126	5630	18.50	18.50	21.50	
802.11be-EHT80 MCS0	134	5670	18.50	18.50	21.50	
	142	5710	18.50	18.50	21.50	
	106	5530	17.00	17.00	20.00	
	122	5610	18.50	18.50	21.50	
802.11be-EHT160 MCS0	138	5690	18.50	18.50	21.50	
	114	5570	16.50	16.50	19.50	
	114	5570	16.50	16.50	19.50	



Burst Average Power (dBm)						
Transmit Antenna				MIMO Ant 3+4		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps		149	5745	15.00	15.00
157			5785	15.00	15.00	18.00
165			5825	15.00	15.00	18.00
802.11n-HT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11n-HT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ac-VHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT80 MCS0		155	5775	15.00	15.00	18.00
802.11ax-HE20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ax-HE40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ax-HE80 MCS0		155	5775	15.00	15.00	18.00
802.11be-EHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11be-EHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11be-EHT80 MCS0		155	5775	15.00	15.00	18.00



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ac-VHT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT80 MCS0	171	5855	18.50	18.50	21.50
	802.11ac-VHT160 MCS0	163	5815	18.50	18.50	21.50
	802.11ax-HE20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ax-HE40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0	171	5855	18.50	18.50	21.50	
802.11ax-HE160 MCS0	163	5815	18.50	18.50	21.50	
802.11be-EHT20 MCS0	169	5845	18.50	18.50	21.50	
	173	5865	18.50	18.50	21.50	
	177	5885	18.50	18.50	21.50	
802.11be-EHT40 MCS0	167	5835	18.50	18.50	21.50	
	175	5875	18.50	18.50	21.50	
802.11be-EHT80 MCS0	171	5855	18.50	18.50	21.50	
802.11be-EHT160 MCS0	163	5815	18.50	18.50	21.50	



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<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11n-HT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11n-HT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11ac-VHT40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ac-VHT80 MCS0	42	5210	15.00	15.00	18.00
	802.11ax-HE20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
	802.11ax-HE40 MCS0	38	5190	15.00	15.00	18.00
		46	5230	15.00	15.00	18.00
	802.11ax-HE80 MCS0	42	5210	15.00	15.00	18.00
	802.11be-EHT20 MCS0	36	5180	15.00	15.00	18.00
		40	5200	15.00	15.00	18.00
		44	5220	15.00	15.00	18.00
		48	5240	15.00	15.00	18.00
802.11be-EHT40 MCS0	38	5190	15.00	15.00	18.00	
	46	5230	15.00	15.00	18.00	
802.11be-EHT80 MCS0	42	5210	15.00	15.00	18.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11n-HT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11n-HT40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11ac-VHT40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
	802.11ac-VHT160 MCS0	50	5250	15	15	18
	802.11ax-HE20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
		60	5300	17.50	17.50	20.50
		64	5320	17.50	17.50	20.50
	802.11ax-HE40 MCS0	54	5270	17.50	17.50	20.50
		62	5310	17.00	17.00	20.00
	802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00
	802.11ax-HE160 MCS0	50	5250	15	15	18
	802.11be-EHT20 MCS0	52	5260	17.50	17.50	20.50
		56	5280	17.50	17.50	20.50
60		5300	17.50	17.50	20.50	
64		5320	17.50	17.50	20.50	
802.11be-EHT40 MCS0	54	5270	17.50	17.50	20.50	
	62	5310	17.00	17.00	20.00	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15	15	18	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11n-HT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11n-HT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ac-VHT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11ac-VHT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ac-VHT80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11ac-VHT160 MCS0		114	5570	16.50	16.50	19.50
802.11ax-HE20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11ax-HE40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11ax-HE80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11ax-HE160 MCS0		114	5570	16.50	16.50	19.50
802.11be-EHT20 MCS0		100	5500	18.50	18.50	21.50
		116	5580	18.50	18.50	21.50
		124	5620	18.50	18.50	21.50
		132	5660	18.50	18.50	21.50
		144	5720	18.50	18.50	21.50
802.11be-EHT40 MCS0		102	5510	16.50	16.50	19.50
		110	5550	18.50	18.50	21.50
		126	5630	18.50	18.50	21.50
		134	5670	18.50	18.50	21.50
		142	5710	18.50	18.50	21.50
802.11be-EHT80 MCS0		106	5530	17.00	17.00	20.00
		122	5610	18.50	18.50	21.50
		138	5690	18.50	18.50	21.50
		114	5570	16.50	16.50	19.50
802.11be-EHT160 MCS0		114	5570	16.50	16.50	19.50



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
802.11a 6Mbps		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11n-HT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11n-HT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ac-VHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ac-VHT80 MCS0		155	5775	15.00	15.00	18.00
802.11ax-HE20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11ax-HE40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11ax-HE80 MCS0		155	5775	15.00	15.00	18.00
802.11be-EHT20 MCS0		149	5745	15.00	15.00	18.00
		157	5785	15.00	15.00	18.00
		165	5825	15.00	15.00	18.00
802.11be-EHT40 MCS0		151	5755	15.00	15.00	18.00
		159	5795	15.00	15.00	18.00
802.11be-EHT80 MCS0		155	5775	15.00	15.00	18.00



Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
	802.11a 6Mbps	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11n-HT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ac-VHT40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
	802.11ac-VHT80 MCS0	171	5855	18.50	18.50	21.50
	802.11ac-VHT160 MCS0	163	5815	18.50	18.50	21.50
	802.11ax-HE20 MCS0	169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
	802.11ax-HE40 MCS0	167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0	171	5855	18.50	18.50	21.50	
802.11ax-HE160 MCS0	163	5815	18.50	18.50	21.50	
802.11be-EHT20 MCS0	169	5845	18.50	18.50	21.50	
	173	5865	18.50	18.50	21.50	
	177	5885	18.50	18.50	21.50	
802.11be-EHT40 MCS0	167	5835	18.50	18.50	21.50	
	175	5875	18.50	18.50	21.50	
802.11be-EHT80 MCS0	171	5855	18.50	18.50	21.50	
802.11be-EHT160 MCS0	163	5815	18.50	18.50	21.50	



<Maximum Power - Power Index 0>

Standard Power client (SP)

		Burst Average Power (dBm)				
Transmit Antenna		MIMO Ant 3+4				
Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4	
WiFi 6E	802.11a 6Mbps	1	5955	21.00	21.00	24.0
		49	6195	21.00	21.00	24.0
		93	6415	21.00	21.00	24.0
		117	6535	21.00	21.00	24.0
		149	6695	21.00	21.00	24.0
		181	6855	21.00	21.00	24.0
	802.11ax-HE20 MCS0	1	5955	21.00	21.00	24.0
		49	6195	21.00	21.00	24.0
		93	6415	21.00	21.00	24.0
		117	6535	21.00	21.00	24.0
		149	6695	21.00	21.00	24.0
		181	6855	21.00	21.00	24.0
	802.11ax-HE40 MCS0	3	5965	20.00	20.00	23.0
		51	6205	20.00	20.00	23.0
		91	6405	20.00	20.00	23.0
		123	6565	20.00	20.00	23.0
		147	6685	20.00	20.00	23.0
		179	6845	20.00	20.00	23.0
	802.11ax-HE80 MCS0	7	5985	20.00	20.00	23.0
		55	6225	20.00	20.00	23.0
		87	6385	20.00	20.00	23.0
		135	6625	20.00	20.00	23.0
		151	6705	20.00	20.00	23.0
		167	6785	20.00	20.00	23.0
	802.11ax-HE160 MCS0	15	6025	20.00	20.00	23.0
		47	6185	20.00	20.00	23.0
		79	6345	20.00	20.00	23.0
		143	6665	20.00	20.00	23.0
	802.11be EHT20 MCS0	1	5955	21.00	21.00	24.0
		49	6195	21.00	21.00	24.0
		93	6415	21.00	21.00	24.0
		117	6535	21.00	21.00	24.0
		149	6695	21.00	21.00	24.0
		181	6855	21.00	21.00	24.0
	802.11be EHT40 MCS0	3	5965	20.00	20.00	23.0
		51	6205	20.00	20.00	23.0
		91	6405	20.00	20.00	23.0
		123	6565	20.00	20.00	23.0
		147	6685	20.00	20.00	23.0
		179	6845	20.00	20.00	23.0
	802.11be EHT80 MCS0	7	5985	20.00	20.00	23.0
		55	6225	20.00	20.00	23.0
		87	6385	20.00	20.00	23.0
		135	6625	20.00	20.00	23.0
		151	6705	20.00	20.00	23.0
		167	6785	20.00	20.00	23.0
	802.11be EHT160 MCS0	15	6025	20.00	20.00	23.0
		47	6185	20.00	20.00	23.0
79		6345	20.00	20.00	23.0	
143		6665	20.00	20.00	23.0	



<Maximum Power - Power Index 0>

Low Power Indoor (LPI)

Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
WiFi 6E	802.11a 6Mbps	1	5955	9.00	9.00	12.0
		57	6235	9.00	9.00	12.0
		113	6515	9.00	9.00	12.0
		173	6815	9.00	9.00	12.0
		233	7115	9.00	9.00	12.0
	802.11ax-HE20 MCS0	1	5955	9.00	9.00	12.0
		57	6235	9.00	9.00	12.0
		113	6515	9.00	9.00	12.0
		173	6815	9.00	9.00	12.0
		233	7115	9.00	9.00	12.0
	802.11ax-HE40 MCS0	3	5965	12.50	12.50	15.5
		59	6245	12.50	12.50	15.5
		107	6485	12.50	12.50	15.5
		171	6805	12.50	12.50	15.5
		227	7085	12.50	10.00	14.4
	802.11ax-HE80 MCS0	7	5985	15.50	15.50	18.5
		71	6305	15.50	15.50	18.5
		119	6545	15.50	15.50	18.5
		167	6785	15.00	15.00	18.0
		215	7025	15.50	15.50	18.5
	802.11ax-HE160 MCS0	15	6025	18.50	18.50	21.5
		47	6185	18.50	18.50	21.5
		111	6505	18.50	18.50	21.5
		143	6665	18.50	16.50	20.6
		207	6985	18.00	18.00	21.0
	802.11be EHT20 MCS0	1	5955	9.00	9.00	12.0
		57	6235	9.00	9.00	12.0
		113	6515	9.00	9.00	12.0
		173	6815	9.00	9.00	12.0
		233	7115	9.00	9.00	12.0
	802.11be EHT40 MCS0	3	5965	12.50	12.50	15.5
		59	6245	12.50	12.50	15.5
		107	6485	12.50	12.50	15.5
		171	6805	12.50	12.50	15.5
		227	7085	12.50	10.00	14.4
	802.11be EHT80 MCS0	7	5985	15.50	15.50	18.5
		71	6305	15.50	15.50	18.5
		119	6545	15.50	15.50	18.5
		167	6785	15.50	15.50	18.5
		215	7025	15.50	15.50	18.5
802.11be EHT160 MCS0	15	6025	18.50	18.50	21.5	
	47	6185	18.50	18.50	21.5	
	111	6505	18.50	18.50	21.5	
	143	6665	18.50	16.50	20.6	
	207	6985	18.00	18.00	21.0	



<Power Index 1 / Power Index 2 >

Standard Power client (SP) / Low Power Indoor (LPI)

<6GHz WLAN>

Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
WiFi 6E	802.11a 6Mbps	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE40 MCS0	3	5965	12.50	12.50	15.50
		59	6245	12.50	12.50	15.50
		107	6485	11.50	11.50	14.50
		171	6805	10.50	10.50	13.50
		227	7085	9.00	9.00	12.00
	802.11ax-HE80 MCS0	7	5985	12.50	12.50	15.50
		71	6305	12.50	12.50	15.50
		119	6545	11.50	11.50	14.50
		167	6785	10.50	10.50	13.50
		215	7025	9.00	9.00	12.00
	802.11ax-HE160 MCS0	15	6025	12.50	12.50	15.50
		47	6185	12.50	12.50	15.50
		111	6505	11.50	11.50	14.50
		143	6665	10.50	10.50	13.50
		207	6985	9.00	9.00	12.00
	802.11be-EHT20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11be-EHT40 MCS0	3	5965	12.50	12.50	15.50
		59	6245	12.50	12.50	15.50
		107	6485	11.50	11.50	14.50
		171	6805	10.50	10.50	13.50
		227	7085	9.00	9.00	12.00
	802.11be-EHT80 MCS0	7	5985	12.50	12.50	15.50
		71	6305	12.50	12.50	15.50
		119	6545	11.50	11.50	14.50
		167	6785	10.50	10.50	13.50
		215	7025	9.00	9.00	12.00
802.11be-EHT160 MCS0	15	6025	12.50	12.50	15.50	
	47	6185	12.50	12.50	15.50	
	111	6505	11.50	11.50	14.50	
	143	6665	10.50	10.50	13.50	
	207	6985	9.00	9.00	12.00	



<Power Index 3 / Power Index 4>

Standard Power client (SP) / Low Power Indoor (LPI)

<6GHz WLAN>

Burst Average Power (dBm)						
	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
WiFi 6E	802.11a 6Mbps	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE40 MCS0	3	5965	11.00	11.00	14.00
		59	6245	11.00	11.00	14.00
		107	6485	11.50	11.50	14.50
		171	6805	10.50	10.50	13.50
		227	7085	9.00	9.00	12.00
	802.11ax-HE80 MCS0	7	5985	11.00	11.00	14.00
		71	6305	11.00	11.00	14.00
		119	6545	11.50	11.50	14.50
		167	6785	10.50	10.50	13.50
		215	7025	9.00	9.00	12.00
	802.11ax-HE160 MCS0	15	6025	11.00	11.00	14.00
		47	6185	11.00	11.00	14.00
		111	6505	11.50	11.50	14.50
		143	6665	10.50	10.50	13.50
		207	6985	9.00	9.00	12.00
	802.11be-EHT20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11be-EHT40 MCS0	3	5965	11.00	11.00	14.00
		59	6245	11.00	11.00	14.00
		107	6485	11.50	11.50	14.50
		171	6805	10.50	10.50	13.50
		227	7085	9.00	9.00	12.00
	802.11be-EHT80 MCS0	7	5985	11.00	11.00	14.00
		71	6305	11.00	11.00	14.00
		119	6545	11.50	11.50	14.50
		167	6785	10.50	10.50	13.50
		215	7025	9.00	9.00	12.00
802.11be-EHT160 MCS0	15	6025	11.00	11.00	14.00	
	47	6185	11.00	11.00	14.00	
	111	6505	11.50	11.50	14.50	
	143	6665	10.50	10.50	13.50	
	207	6985	9.00	9.00	12.00	



<Power Index 5 / Power Index 6/Power Index 7/ Power Index 8 /Power Index 9>

Standard Power client (SP) / Low Power Indoor (LPI)

<6GHz WLAN>

	Transmit Antenna			MIMO Ant 3+4		
	Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4
WiFi 6E	802.11a 6Mbps	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11ax-HE40 MCS0	3	5965	12.50	12.50	15.50
		59	6245	12.50	12.50	15.50
		107	6485	12.50	12.50	15.50
		171	6805	12.50	12.50	15.50
		227	7085	12.50	12.50	15.50
	802.11ax-HE80 MCS0	7	5985	13.00	13.00	16.00
		71	6305	13.00	13.00	16.00
		119	6545	15.00	15.00	18.00
		167	6785	14.00	14.00	17.00
		215	7025	13.50	13.50	16.50
	802.11ax-HE160 MCS0	15	6025	13.00	13.00	16.00
		47	6185	13.00	13.00	16.00
		111	6505	15.00	15.00	18.00
		143	6665	14.00	14.00	17.00
		207	6985	13.50	13.50	16.50
	802.11be-EHT20 MCS0	1	5955	9.00	9.00	12.00
		57	6235	9.00	9.00	12.00
		113	6515	9.00	9.00	12.00
		173	6815	9.00	9.00	12.00
		233	7115	9.00	9.00	12.00
	802.11be-EHT40 MCS0	3	5965	12.50	12.50	15.50
		59	6245	12.50	12.50	15.50
		107	6485	12.50	12.50	15.50
		171	6805	12.50	12.50	15.50
		227	7085	12.50	12.50	15.50
	802.11be-EHT80 MCS0	7	5985	13.00	13.00	16.00
		71	6305	13.00	13.00	16.00
		119	6545	15.00	15.00	18.00
		167	6785	14.00	14.00	17.00
		215	7025	13.50	13.50	16.50
802.11be-EHT160 MCS0	15	6025	13.00	13.00	16.00	
	47	6185	13.00	13.00	16.00	
	111	6505	15.00	15.00	18.00	
	143	6665	14.00	14.00	17.00	
	207	6985	13.50	13.50	16.50	



<Bluetooth Maximum Power>

General Note:

1. 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 as tested in Section 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description
2. 3+4(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 3+4(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

<Power Index 0>

Burst Average Power (dBm)					Burst Average Power (dBm)					Burst Average Power (dBm)						
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4	Transmit Antenna			MIMO Ant 3+4			
Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4	
Bluetooth	BR / EDR 1Mbps	0	2402	21.0	Bluetooth	BR / EDR 1Mbps	0	2402	21.0	Bluetooth	BR / EDR 1Mbps	0	2402	18.0	18.0	21.0
		39	2441	21.0			39	2441	21.0			39	2441	18.0	18.0	21.0
		78	2480	21.0			78	2480	21.0			78	2480	18.0	18.0	21.0
	BR / EDR 2Mbps	0	2402	19.0		BR / EDR 2Mbps	0	2402	19.0		BR / EDR 2Mbps	0	2402	15.0	15.0	18.0
		39	2441	19.0			39	2441	19.0			39	2441	15.0	15.0	18.0
		78	2480	19.0			78	2480	19.0			78	2480	15.0	15.0	18.0
	BR / EDR 3Mbps	0	2402	18.0		BR / EDR 3Mbps	0	2402	18.0		BR / EDR 3Mbps	0	2402	15.0	15.0	18.0
		39	2441	18.0			39	2441	18.0			39	2441	15.0	15.0	18.0
		78	2480	18.0			78	2480	18.0			78	2480	15.0	15.0	18.0
	LE 1Mbps	0	2402	20.0		LE 1Mbps	0	2402	20.0		LE 1Mbps	0	2402	20.0	20.0	23.0
		19	2440	20.0			19	2440	20.0			19	2440	20.0	20.0	23.0
		39	2480	20.0			39	2480	20.0			39	2480	20.0	20.0	23.0
	LE 2Mbps	0	2402	20.0		LE 2Mbps	0	2402	20.0		LE 2Mbps	0	2402	20.0	20.0	23.0
		19	2440	20.0			19	2440	20.0			19	2440	20.0	20.0	23.0
		39	2480	20.0			39	2480	20.0			39	2480	20.0	20.0	23.0
	HR 2Mbps	0	2402	19.0		HR 2Mbps	0	2402	19.0		HR 2Mbps	0	2402	15.0	15.0	18.0
		39	2441	19.0			39	2441	19.0			39	2441	15.0	15.0	18.0
		78	2480	19.0			78	2480	19.0			78	2480	15.0	15.0	18.0
	HR 4Mbps	2	2404	18.0		HR 4Mbps	2	2404	18.0		HR 4Mbps	2	2404	18.0	18.0	21.0
		39	2441	18.0			39	2441	18.0			39	2441	18.0	18.0	21.0
		76	2478	18.0			76	2478	18.0			76	2478	18.0	18.0	21.0
	HR 8Mbps	2	2404	18.0		HR 8Mbps	2	2404	18.0		HR 8Mbps	2	2404	17.5	17.5	20.5
		39	2441	18.0			39	2441	18.0			39	2441	17.5	17.5	20.5
		76	2478	18.0			76	2478	18.0			76	2478	13.5	13.5	16.5



<Power Index 1>

Burst Average Power (dBm)					Burst Average Power (dBm)					Burst Average Power (dBm)								
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4	Transmit Antenna			MIMO Ant 3+4					
Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4			
Bluetooth	BR / EDR 1Mbps	0	2402	9.0	Bluetooth	BR / EDR 1Mbps	0	2402	9.0	Bluetooth	BR / EDR 1Mbps	0	2402	9.0	9.0	12.0		
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		78	2480	9.0			78	2480	9.0			78	2480	9.0	9.0	12.0		
	BR / EDR 2Mbps	0	2402	9.0		BR / EDR 2Mbps	0	2402	9.0		BR / EDR 2Mbps	0	2402	9.0	9.0	12.0	12.0	12.0
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		78	2480	9.0			78	2480	9.0			78	2480	9.0	9.0	12.0		
	BR / EDR 3Mbps	0	2402	9.0		BR / EDR 3Mbps	0	2402	9.0		BR / EDR 3Mbps	0	2402	9.0	9.0	12.0	12.0	12.0
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		78	2480	9.0			78	2480	9.0			78	2480	9.0	9.0	12.0		
	LE 1Mbps	0	2402	9.0		LE 1Mbps	0	2402	9.0		LE 1Mbps	0	2402	9.0	9.0	12.0	12.0	12.0
		19	2440	9.0			19	2440	9.0			19	2440	9.0	9.0	12.0		
		39	2480	9.0			39	2480	9.0			39	2480	9.0	9.0	12.0		
	LE 2Mbps	0	2402	9.0		LE 2Mbps	0	2402	9.0		LE 2Mbps	0	2402	9.0	9.0	12.0	12.0	12.0
		19	2440	9.0			19	2440	9.0			19	2440	9.0	9.0	12.0		
		39	2480	9.0			39	2480	9.0			39	2480	9.0	9.0	12.0		
	HR 2Mbps	0	2402	9.0		HR 2Mbps	0	2402	9.0		HR 2Mbps	0	2402	9.0	9.0	12.0	12.0	12.0
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		78	2480	9.0			78	2480	9.0			78	2480	9.0	9.0	12.0		
	HR 4Mbps	2	2404	9.0		HR 4Mbps	2	2404	9.0		HR 4Mbps	2	2404	9.0	9.0	12.0	12.0	12.0
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		76	2478	9.0			76	2478	9.0			76	2478	9.0	9.0	12.0		
	HR 8Mbps	2	2404	9.0		HR 8Mbps	2	2404	9.0		HR 8Mbps	2	2404	9.0	9.0	12.0	12.0	12.0
		39	2441	9.0			39	2441	9.0			39	2441	9.0	9.0	12.0		
		76	2478	9.0			76	2478	9.0			76	2478	9.0	9.0	12.0		



<Power Index 2>

Burst Average Power (dBm)					Burst Average Power (dBm)					Burst Average Power (dBm)												
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4	Transmit Antenna			MIMO Ant 3+4									
Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4							
Bluetooth	BR / EDR 1Mbps	0	2402	19.5	Bluetooth	BR / EDR 1Mbps	0	2402	19.5	Bluetooth	BR / EDR 1Mbps	0	2402	18.0	18.0	21.0						
		39	2441	19.5			39	2441	19.5			39	2441	18.0	18.0	21.0						
		78	2480	19.5			78	2480	19.5			78	2480	18.0	18.0	21.0						
	BR / EDR 2Mbps	0	2402	19.0		BR / EDR 2Mbps	0	2402	19.0		BR / EDR 2Mbps	0	2402	15.0	15.0	18.0	BR / EDR 2Mbps	0	2402	15.0	15.0	18.0
		39	2441	19.0			39	2441	19.0			39	2441	15.0	15.0	18.0		39	2441	15.0	15.0	18.0
		78	2480	19.0			78	2480	19.0			78	2480	15.0	15.0	18.0		78	2480	15.0	15.0	18.0
	BR / EDR 3Mbps	0	2402	18.0		BR / EDR 3Mbps	0	2402	18.0		BR / EDR 3Mbps	0	2402	15.0	15.0	18.0	BR / EDR 3Mbps	0	2402	15.0	15.0	18.0
		39	2441	18.0			39	2441	18.0			39	2441	15.0	15.0	18.0		39	2441	15.0	15.0	18.0
		78	2480	18.0			78	2480	18.0			78	2480	15.0	15.0	18.0		78	2480	15.0	15.0	18.0
	LE 1Mbps	0	2402	19.5		LE 1Mbps	0	2402	19.5		LE 1Mbps	0	2402	18.0	18.0	21.0	LE 1Mbps	0	2402	18.0	18.0	21.0
		19	2440	19.5			19	2440	19.5			19	2440	18.0	18.0	21.0		19	2440	18.0	18.0	21.0
		39	2480	19.5			39	2480	19.5			39	2480	18.0	18.0	21.0		39	2480	18.0	18.0	21.0
	LE 2Mbps	0	2402	19.5		LE 2Mbps	0	2402	19.5		LE 2Mbps	0	2402	18.0	18.0	21.0	LE 2Mbps	0	2402	18.0	18.0	21.0
		19	2440	19.5			19	2440	19.5			19	2440	18.0	18.0	21.0		19	2440	18.0	18.0	21.0
		39	2480	19.5			39	2480	19.5			39	2480	18.0	18.0	21.0		39	2480	18.0	18.0	21.0
	HR 2Mbps	0	2402	19.0		HR 2Mbps	0	2402	19.0		HR 2Mbps	0	2402	15.0	15.0	18.0	HR 2Mbps	0	2402	15.0	15.0	18.0
		39	2441	19.0			39	2441	19.0			39	2441	15.0	15.0	18.0		39	2441	15.0	15.0	18.0
		78	2480	19.0			78	2480	19.0			78	2480	15.0	15.0	18.0		78	2480	15.0	15.0	18.0
	HR 4Mbps	2	2404	18.0		HR 4Mbps	2	2404	18.0		HR 4Mbps	2	2404	18.0	18.0	21.0	HR 4Mbps	2	2404	18.0	18.0	21.0
		39	2441	18.0			39	2441	18.0			39	2441	18.0	18.0	21.0		39	2441	18.0	18.0	21.0
		76	2478	18.0			76	2478	18.0			76	2478	18.0	18.0	21.0		76	2478	18.0	18.0	21.0
	HR 8Mbps	2	2404	18.0		HR 8Mbps	2	2404	18.0		HR 8Mbps	2	2404	17.5	17.5	20.5	HR 8Mbps	2	2404	17.5	17.5	20.5
		39	2441	18.0			39	2441	18.0			39	2441	17.5	17.5	20.5		39	2441	17.5	17.5	20.5
		76	2478	18.0			76	2478	18.0			76	2478	13.5	13.5	16.5		76	2478	13.5	13.5	16.5



<Power Index 3 / Power Index 4>

Burst Average Power (dBm)					Burst Average Power (dBm)					Burst Average Power (dBm)							
Transmit Antenna				SISO Ant 3	Transmit Antenna				SISO Ant 4	Transmit Antenna			MIMO Ant 3+4				
Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit		Mode	Channel	Frequency (MHz)	Tune-Up Limit Ant 3+4(3)	Tune-Up Limit Ant 3+4(4)	Tune-Up Limit Ant 3+4		
Bluetooth	BR / EDR 1Mbps	0	2402	15.0	Bluetooth	BR / EDR 1Mbps	0	2402	15.0	Bluetooth	BR / EDR 1Mbps	0	2402	15.0	15.0	18.0	
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		78	2480	15.0			78	2480	15.0			78	2480	15.0	15.0	18.0	
	BR / EDR 2Mbps	0	2402	15.0		BR / EDR 2Mbps	0	2402	15.0		BR / EDR 2Mbps	0	2402	15.0	15.0	15.0	18.0
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		78	2480	15.0			78	2480	15.0			78	2480	15.0	15.0	18.0	
	BR / EDR 3Mbps	0	2402	15.0		BR / EDR 3Mbps	0	2402	15.0		BR / EDR 3Mbps	0	2402	15.0	15.0	15.0	18.0
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		78	2480	15.0			78	2480	15.0			78	2480	15.0	15.0	18.0	
	LE 1Mbps	0	2402	15.0		LE 1Mbps	0	2402	15.0		LE 1Mbps	0	2402	15.0	15.0	15.0	18.0
		19	2440	15.0			19	2440	15.0			19	2440	15.0	15.0	18.0	
		39	2480	15.0			39	2480	15.0			39	2480	15.0	15.0	18.0	
	LE 2Mbps	0	2402	15.0		LE 2Mbps	0	2402	15.0		LE 2Mbps	0	2402	15.0	15.0	15.0	18.0
		19	2440	15.0			19	2440	15.0			19	2440	15.0	15.0	18.0	
		39	2480	15.0			39	2480	15.0			39	2480	15.0	15.0	18.0	
	HR 2Mbps	0	2402	15.0		HR 2Mbps	0	2402	15.0		HR 2Mbps	0	2402	15.0	15.0	15.0	18.0
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		78	2480	15.0			78	2480	15.0			78	2480	15.0	15.0	18.0	
	HR 4Mbps	2	2404	15.0		HR 4Mbps	2	2404	15.0		HR 4Mbps	2	2404	15.0	15.0	15.0	18.0
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		76	2478	15.0			76	2478	15.0			76	2478	15.0	15.0	18.0	
	HR 8Mbps	2	2404	15.0		HR 8Mbps	2	2404	15.0		HR 8Mbps	2	2404	15.0	15.0	15.0	18.0
		39	2441	15.0			39	2441	15.0			39	2441	15.0	15.0	18.0	
		76	2478	15.0			76	2478	15.0			76	2478	13.5	13.5	16.5	



6. RF Exposure Limits

6.1 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.

6.2 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)

Table with 3 columns: Whole-Body, Partial-Body, Hands, Wrists, Feet and Ankles. Values: 0.4, 8.0, 20.0

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

Table with 3 columns: Whole-Body, Partial-Body, Hands, Wrists, Feet and Ankles. Values: 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.



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

7. Specific Absorption Rate (SAR)

7.1 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.

7.2 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:

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

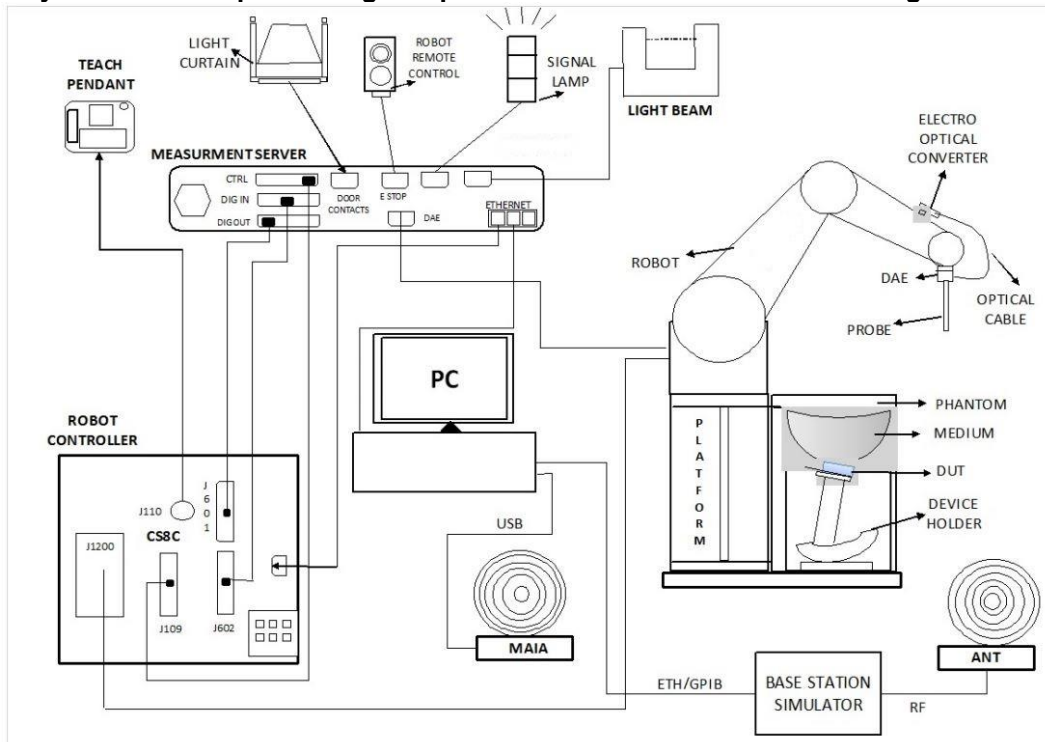
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. 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.

8.1 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.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 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
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY


8.2 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	10 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	10 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	

8.3 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


8.4 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.

8.5 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

9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, 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

9.1 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

9.2 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.

9.3 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 dB) 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° ± 1°	20° ± 1°
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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

Zoom scans are used 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 shoes 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: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 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: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: 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
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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.				

9.5 Volume Scan Procedures

The volume scan is used for 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.

9.6 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.



10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1107	Jun. 22, 2022	Jun. 21, 2023
SPEAG	835MHz System Validation Kit	D835V2	4d167	Nov. 24, 2022	Nov. 23, 2023
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Jun. 22, 2022	Jun. 21, 2023
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Jun. 17, 2022	Jun. 16, 2023
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 18, 2022	Jan. 16, 2024
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 21, 2022	Nov. 20, 2023
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Jun. 23, 2022	Jun. 22, 2023
SPEAG	3300MHz System Validation Kit	D3300V2	1034	Sep. 05, 2022	Sep. 04, 2023
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 17, 2022	Jan. 15, 2024
SPEAG	3700MHz System Validation Kit	D3700V2	1006	Jun. 20, 2022	Jun. 19, 2023
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1022	Jul. 14, 2021	Jul. 12, 2023
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1017	Apr. 22, 2022	Apr. 20, 2024
SPEAG	5GHz System Validation Kit	D5GHzV2	1128	Nov. 23, 2022	Nov. 22, 2023
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 17, 2024
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 15, 2023	Mar. 14, 2024
SPEAG	13MHz System Validation Kit	CLA13	1022	Sep. 01, 2022	Aug. 31, 2023
SPEAG	5G Verification Source	10GHz	1020	Jan. 20, 2023	Jan. 19, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 25, 2022	Oct. 24, 2023
SPEAG	Data Acquisition Electronics	DAE4	316	Jan. 23, 2023	Jan. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	656	Jan. 23, 2023	Jan. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	661	May. 23, 2023	May. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	699	Feb. 22, 2023	Feb. 21, 2024
SPEAG	Data Acquisition Electronics	DAE4	1647	Nov. 18, 2022	Nov. 17, 2023
SPEAG	Data Acquisition Electronics	DAE4	1694	Nov. 18, 2022	Nov. 17, 2023
SPEAG	Data Acquisition Electronics	DAE4	1696	Nov. 09, 2022	Nov. 08, 2023
SPEAG	Data Acquisition Electronics	DAE4	1697	Dec. 15, 2022	Dec. 14, 2023
SPEAG	Data Acquisition Electronics	DAE4	1707	Dec. 15, 2022	Dec. 14, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 31, 2022	Oct. 30, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Feb. 21, 2023	Feb. 20, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7590	Mar. 23, 2023	Mar. 22, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Jan. 26, 2023	Jan. 25, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7694	Nov. 15, 2022	Nov. 14, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7700	Jan. 24, 2023	Jan. 23, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7791	Feb. 22, 2023	Feb. 21, 2024
Testo	Hygro meter	608-H1	45196600	Nov. 02, 2022	Nov. 01, 2023
Testo	Hygro meter	608-H1	45207528	Nov. 02, 2022	Nov. 01, 2023
RCPTWN	Thermometer	HTC-1	TM685-1	Jun. 27, 2022	Jun. 26, 2023
RCPTWN	Thermometer	HTC-1	TM560-2	Mar. 21, 2023	Mar. 20, 2024
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Oct. 31, 2022	Oct. 30, 2023
Keysight	Wireless Communication Test Set	E5515C	MY50267236	Mar. 12, 2023	Mar. 11, 2024
R&S	BT Base Station	CBT32	101136	Oct. 25, 2022	Oct. 24, 2023
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 12, 2022	Oct. 11, 2023
Keysight	ENA Network Analyzer	E5071C	MY46104758	Sep. 22, 2022	Sep. 21, 2023
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 28, 2022	Sep. 27, 2023
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 28, 2022	Jul. 27, 2023
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3796	Jan. 13, 2023	Jan. 12, 2024
Anritsu	Power Meter	ML2495A	1419002	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Meter	ML2495A	1804003	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Sensor	MA2411B	1911176	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Sensor	MA2411B	1726150	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 21, 2022	Jul. 20, 2023
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Jan. 10, 2023	Jan. 09, 2024
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 14, 2022	Oct. 13, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Sep. 15, 2022	Sep. 14, 2023
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:

1. 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.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. 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.



11. System Verification

11.1 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 ± 2°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.

<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
13	22.5	0.728	54.443	0.75	55.00	-2.93	-1.01	±5	2023/6/1
750	22.4	0.888	41.300	0.89	41.90	-0.22	-1.43	±5	2023/4/22
750	22.5	0.888	41.100	0.89	41.90	-0.22	-1.91	±5	2023/4/23
750	22.5	0.875	43.000	0.89	41.90	-1.69	2.63	±5	2023/4/24
750	22.3	0.872	41.900	0.89	41.90	-2.02	0.00	±5	2023/4/27
750	22.3	0.879	41.600	0.89	41.90	-1.24	-0.72	±5	2023/5/1
750	22.2	0.885	41.700	0.89	41.90	-0.56	-0.48	±5	2023/5/13
750	22.3	0.876	41.900	0.89	41.90	-1.57	0.00	±5	2023/5/15
750	22.6	0.871	42.000	0.89	41.90	-2.13	0.24	±5	2023/5/17
750	22.3	0.879	43.200	0.89	41.90	-1.24	3.10	±5	2023/5/18
750	22.1	0.879	41.900	0.89	41.90	-1.24	0.00	±5	2023/5/27
835	22.6	0.919	41.400	0.90	41.50	2.11	-0.24	±5	2023/4/25
835	22.4	0.925	41.500	0.90	41.50	2.78	0.00	±5	2023/5/3
835	22.8	0.932	41.600	0.90	41.50	3.56	0.24	±5	2023/5/5
835	22.5	0.911	41.400	0.90	41.50	1.22	-0.24	±5	2023/5/14
835	22.3	0.908	41.600	0.90	41.50	0.89	0.24	±5	2023/5/15
835	22.3	0.923	41.500	0.90	41.50	2.56	0.00	±5	2023/5/19
835	22.3	0.929	41.800	0.90	41.50	3.22	0.72	±5	2023/5/23
835	22.1	0.912	41.600	0.90	41.50	1.33	0.24	±5	2023/5/27
1750	22.6	1.360	40.600	1.37	40.10	-0.73	1.25	±5	2023/5/4
1750	22.9	1.380	40.700	1.37	40.10	0.73	1.50	±5	2023/5/6
1750	22.5	1.380	40.900	1.37	40.10	0.73	2.00	±5	2023/5/12
1750	22.5	1.350	40.100	1.37	40.10	-1.46	0.00	±5	2023/5/14
1750	22.7	1.370	40.400	1.37	40.10	0.00	0.75	±5	2023/5/17
1750	22.6	1.370	39.500	1.37	40.10	0.00	-1.50	±5	2023/5/17
1750	22.3	1.390	40.000	1.37	40.10	1.46	-0.25	±5	2023/5/23
1750	22.5	1.370	38.900	1.37	40.10	0.00	-2.99	±5	2023/5/24
1750	22.5	1.350	40.400	1.37	40.10	-1.46	0.75	±5	2023/5/25
1750	22.4	1.380	41.000	1.37	40.10	0.73	2.24	±5	2023/6/4
1750	22.4	1.340	40.400	1.37	40.10	-2.19	0.75	±5	2023/6/5
1750	22.8	1.380	41.000	1.37	40.10	0.73	2.24	±5	2023/6/6
1750	22.3	1.360	41.000	1.37	40.10	-0.73	2.24	±5	2023/7/7
1900	22.7	1.430	40.800	1.40	40.00	2.14	2.00	±5	2023/5/4
1900	22.9	1.440	40.900	1.40	40.00	2.86	2.25	±5	2023/5/6
1900	22.5	1.430	38.600	1.40	40.00	2.14	-3.50	±5	2023/5/15
1900	22.7	1.450	38.800	1.40	40.00	3.57	-3.00	±5	2023/5/17
1900	22.2	1.440	39.900	1.40	40.00	2.86	-0.25	±5	2023/5/21
1900	22.7	1.440	39.000	1.40	40.00	2.86	-2.50	±5	2023/5/22
1900	22.4	1.420	38.600	1.40	40.00	1.43	-3.50	±5	2023/5/24
1900	22.4	1.390	40.400	1.40	40.00	-0.71	1.00	±5	2023/6/3
1900	22.4	1.410	38.900	1.40	40.00	0.71	-2.75	±5	2023/6/5
1900	22.8	1.460	39.500	1.40	40.00	4.29	-1.25	±5	2023/6/6



2300	22.3	1.660	39.800	1.67	39.50	-0.60	0.76	±5	2023/5/12
2300	22.9	1.610	39.200	1.67	39.50	-3.59	-0.76	±5	2023/5/19
2300	22.4	1.680	40.000	1.67	39.50	0.60	1.27	±5	2023/5/27
2600	22.6	1.990	38.700	1.96	39.00	1.53	-0.77	±5	2023/5/4
2600	22.2	2.010	38.800	1.96	39.00	2.55	-0.51	±5	2023/5/9
2600	22.5	2.010	38.900	1.96	39.00	2.55	-0.26	±5	2023/5/16
2600	22.5	1.950	38.000	1.96	39.00	-0.51	-2.56	±5	2023/5/20
2600	22.4	1.980	38.000	1.96	39.00	1.02	-2.56	±5	2023/5/20
2600	22.5	1.930	38.000	1.96	39.00	-1.53	-2.56	±5	2023/5/22
2600	22.4	1.950	38.200	1.96	39.00	-0.51	-2.05	±5	2023/5/26
2600	22.2	1.970	38.100	1.96	39.00	0.51	-2.31	±5	2023/5/30
2600	22.6	1.990	38.300	1.96	39.00	1.53	-1.79	±5	2023/5/31
2600	22.4	2.010	37.900	1.96	39.00	2.55	-2.82	±5	2023/6/1
2600	22.3	1.960	38.200	1.96	39.00	0.00	-2.05	±5	2023/7/7
3300	22.5	2.770	38.900	2.70	38.13	2.59	2.02	±5	2023/5/31
3500	22.7	3.030	38.600	2.91	37.90	4.12	1.85	±5	2023/5/28
3500	22.5	2.980	38.700	2.91	37.90	2.41	2.11	±5	2023/5/31
3500	22.7	2.960	38.300	2.91	37.90	1.72	1.06	±5	2023/6/1
3500	22.7	2.960	38.300	2.91	37.90	1.72	1.06	±5	2023/6/1
3500	22.7	2.920	37.600	2.91	37.90	0.34	-0.79	±5	2023/6/2
3500	22.4	2.980	37.600	2.91	37.90	2.41	-0.79	±5	2023/6/2
3500	22.5	2.940	38.300	2.91	37.90	1.03	1.06	±5	2023/6/2
3500	22.5	2.850	36.900	2.91	37.90	-2.06	-2.64	±5	2023/6/3
3500	22.7	3.010	37.700	2.91	37.90	3.44	-0.53	±5	2023/6/5
3500	22.5	2.910	37.900	2.91	37.90	0.00	0.00	±5	2023/6/5
3500	22.6	2.880	37.000	2.91	37.90	-1.03	-2.37	±5	2023/6/6
3500	22.2	2.900	36.900	2.91	37.90	-0.34	-2.64	±5	2023/6/7
3500	22.8	2.980	38.200	2.91	37.90	2.41	0.79	±5	2023/6/8
3500	22.3	2.950	38.300	2.91	37.90	1.37	1.06	±5	2023/7/7
3500	22.8	2.960	37.500	2.91	37.90	1.72	-1.06	±5	2023/7/7
3700	22.5	3.210	38.200	3.12	37.70	2.88	1.33	±5	2023/5/20
3700	22.7	3.250	38.400	3.12	37.70	4.17	1.86	±5	2023/5/28
3700	22.5	3.190	38.500	3.12	37.70	2.24	2.12	±5	2023/5/31
3700	22.7	3.170	38.100	3.12	37.70	1.60	1.06	±5	2023/6/1
3700	22.7	3.170	38.100	3.12	37.70	1.60	1.06	±5	2023/6/1
3700	22.7	3.080	37.400	3.12	37.70	-1.28	-0.80	±5	2023/6/2
3700	22.2	3.050	36.700	3.12	37.70	-2.24	-2.65	±5	2023/6/7
3900	22.5	3.400	38.300	3.33	37.51	2.10	2.11	±5	2023/5/31
3900	22.5	3.360	37.900	3.33	37.51	0.90	1.04	±5	2023/6/2
3900	22.5	3.220	36.300	3.33	37.51	-3.30	-3.23	±5	2023/6/3
3900	22.7	3.400	37.100	3.33	37.51	2.10	-1.09	±5	2023/6/5
3900	22.5	3.320	37.500	3.33	37.51	-0.30	-0.03	±5	2023/6/5
3900	22.6	3.350	36.500	3.33	37.51	0.60	-2.69	±5	2023/6/6
3900	22.8	3.410	37.900	3.33	37.51	2.40	1.04	±5	2023/6/8
3900	22.8	3.280	37.100	3.33	37.51	-1.50	-1.09	±5	2023/7/7



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	22.2	1.790	39.000	1.80	39.20	-0.56	-0.51	±5	2023/5/20
2450	22.3	1.750	38.600	1.80	39.20	-2.78	-1.53	±5	2023/5/24
2450	22.7	1.770	38.700	1.80	39.20	-1.67	-1.28	±5	2023/5/27
2450	22.9	1.790	38.800	1.80	39.20	-0.56	-1.02	±5	2023/5/30
2450	22.6	1.820	39.200	1.80	39.20	1.11	0.00	±5	2023/5/31
2450	22.3	1.800	39.000	1.80	39.20	0.00	-0.51	±5	2023/6/5
2450	22.3	1.770	38.800	1.80	39.20	-1.67	-1.02	±5	2023/6/8
5250	22.4	4.630	35.500	4.71	35.95	-1.70	-1.25	±5	2023/5/25
5250	22.7	4.720	37.000	4.71	35.95	0.21	2.92	±5	2023/5/30
5250	22.2	4.590	35.400	4.71	35.95	-2.55	-1.53	±5	2023/6/2
5250	22.5	4.610	35.900	4.71	35.95	-2.12	-0.14	±5	2023/6/5
5250	22.1	4.570	35.800	4.71	35.95	-2.97	-0.42	±5	2023/6/7
5600	22.4	5.030	34.900	5.07	35.50	-0.79	-1.69	±5	2023/5/25
5600	22.1	5.020	36.300	5.07	35.50	-0.99	2.25	±5	2023/5/31
5600	22.6	4.990	35.000	5.07	35.50	-1.58	-1.41	±5	2023/6/4
5600	22.5	5.060	35.200	5.07	35.50	-0.20	-0.85	±5	2023/6/5
5600	22.1	5.020	35.000	5.07	35.50	-0.99	-1.41	±5	2023/6/7
5750	22.4	5.210	34.600	5.22	35.35	-0.19	-2.12	±5	2023/5/25
5750	22.7	5.230	36.200	5.22	35.35	0.19	2.40	±5	2023/5/30
5750	22.1	5.190	36.100	5.22	35.35	-0.57	2.12	±5	2023/5/31
5750	22.5	5.230	35.100	5.22	35.35	0.19	-0.71	±5	2023/6/5
5750	22.1	5.190	35.000	5.22	35.35	-0.57	-0.99	±5	2023/6/7
5850	22.4	5.320	34.400	5.32	35.25	0.00	-2.41	±5	2023/5/25
5850	22.2	5.270	34.300	5.32	35.25	-0.94	-2.70	±5	2023/6/2
5850	22.6	5.280	34.200	5.32	35.25	-0.75	-2.98	±5	2023/6/8
6500	22.5	6.140	34.720	6.07	34.50	1.15	0.64	±5	2023/5/15



11.2 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 (%)
SAR16	2023/6/1	13	1000	CLA13-1022	EX3DV4 - SN3931	DAE4 Sn1696	0.561	0.560	0.561	0.18	0.347	0.349	0.347	-0.86
SAR16	2023/4/22	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.400	8.540	8	-6.32	0.261	5.570	5.22	-6.28
SAR16	2023/4/23	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.400	8.540	8	-6.32	0.262	5.570	5.24	-5.92
SAR16	2023/4/24	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.391	8.540	7.82	-8.43	0.255	5.570	5.1	-8.44
SAR16	2023/4/27	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.440	8.540	8.8	3.04	0.278	5.570	5.56	-0.18
SAR16	2023/5/1	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.392	8.540	7.84	-8.20	0.256	5.570	5.12	-8.08
SAR15	2023/5/13	750	50	D750V3-1107	EX3DV4 - SN7791	DAE4 Sn1647	0.420	8.540	8.4	-1.64	0.274	5.570	5.48	-1.62
SAR15	2023/5/15	750	50	D750V3-1107	EX3DV4 - SN7791	DAE4 Sn1647	0.418	8.540	8.36	-2.11	0.275	5.570	5.5	-1.26
SAR15	2023/5/17	750	50	D750V3-1107	EX3DV4 - SN7791	DAE4 Sn1647	0.407	8.540	8.14	-4.68	0.268	5.570	5.36	-3.77
SAR16	2023/5/18	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn1696	0.395	8.540	7.9	-7.49	0.262	5.570	5.24	-5.92
SAR15	2023/5/27	750	50	D750V3-1107	EX3DV4 - SN7791	DAE4 Sn1647	0.408	8.540	8.16	-4.45	0.268	5.570	5.36	-3.77
SAR16	2023/4/25	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.486	9.800	9.72	-0.82	0.314	6.380	6.28	-1.57
SAR16	2023/5/3	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.493	9.800	9.86	0.61	0.320	6.380	6.4	0.31
SAR16	2023/5/5	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.492	9.800	9.84	0.41	0.317	6.380	6.34	-0.63
SAR16	2023/5/14	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.495	9.800	9.9	1.02	0.321	6.380	6.42	0.63
SAR15	2023/5/15	835	50	D835V2-4d167	EX3DV4 - SN7791	DAE4 Sn1647	0.505	9.800	10.1	3.06	0.328	6.380	6.56	2.82
SAR16	2023/5/19	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.477	9.800	9.54	-2.65	0.310	6.380	6.2	-2.82
SAR16	2023/5/23	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn1696	0.492	9.800	9.84	0.41	0.318	6.380	6.36	-0.31
SAR15	2023/5/27	835	50	D835V2-4d167	EX3DV4 - SN7791	DAE4 Sn1647	0.506	9.800	10.12	3.27	0.328	6.380	6.56	2.82
SAR16	2023/5/4	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.750	36.900	35	-5.15	0.928	19.400	18.56	-4.33
SAR16	2023/5/6	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.710	36.900	34.2	-7.32	0.910	19.400	18.2	-6.19
SAR16	2023/5/12	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.790	36.900	35.8	-2.98	0.949	19.400	18.98	-2.16
SAR16	2023/5/14	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.680	36.900	33.6	-8.94	0.895	19.400	17.9	-7.73
SAR16	2023/5/17	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.710	36.900	34.2	-7.32	0.902	19.400	18.04	-7.01
SAR15	2023/5/17	1750	50	D1750V2-1112	EX3DV4 - SN7791	DAE4 Sn1647	1.870	36.900	37.4	1.36	0.995	19.400	19.9	2.58
SAR15	2023/5/23	1750	50	D1750V2-1112	EX3DV4 - SN7791	DAE4 Sn1694	1.870	36.900	37.4	1.36	1.000	19.400	20	3.09
SAR15	2023/5/24	1750	50	D1750V2-1112	EX3DV4 - SN7791	DAE4 Sn1647	1.840	36.900	36.8	-0.27	0.980	19.400	19.6	1.03
SAR16	2023/5/25	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.860	36.900	37.2	0.81	0.999	19.400	19.98	2.99
SAR16	2023/6/4	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.680	36.900	33.6	-8.94	0.907	19.400	18.14	-6.49
SAR16	2023/6/5	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.700	36.900	34	-7.86	0.915	19.400	18.3	-5.67
SAR16	2023/6/6	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn1696	1.750	36.900	35	-5.15	0.939	19.400	18.78	-3.20
SAR11	2023/7/7	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn316	1.700	36.900	34	-7.86	0.908	19.400	18.16	-6.39
SAR16	2023/5/4	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.930	39.000	38.6	-1.03	0.999	20.400	19.98	-2.06
SAR16	2023/5/6	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.970	39.000	39.4	1.03	1.020	20.400	20.4	0.00
SAR16	2023/5/15	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.910	39.000	38.2	-2.05	0.989	20.400	19.78	-3.04
SAR16	2023/5/17	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.940	39.000	38.8	-0.51	1.000	20.400	20	-1.96
SAR17	2023/5/21	1900	50	D1900V2-5d185	EX3DV4 - SN7625	DAE4 Sn656	1.870	39.000	37.4	-4.10	0.982	20.400	19.64	-3.73
SAR15	2023/5/22	1900	50	D1900V2-5d185	EX3DV4 - SN7791	DAE4 Sn1647	2.040	39.000	40.8	4.62	1.070	20.400	21.4	4.90
SAR16	2023/5/24	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.930	39.000	38.6	-1.03	1.000	20.400	20	-1.96
SAR16	2023/6/3	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.880	39.000	37.6	-3.59	0.990	20.400	19.8	-2.94
SAR16	2023/6/5	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.920	39.000	38.4	-1.54	1.010	20.400	20.2	-0.98
SAR16	2023/6/6	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn1696	1.970	39.000	39.4	1.03	1.030	20.400	20.6	0.98
SAR16	2023/5/12	2300	50	D2300V2-1006	EX3DV4 - SN3931	DAE4 Sn1696	2.350	48.300	47	-2.69	1.120	23.500	22.4	-4.68
SAR15	2023/5/19	2300	50	D2300V2-1006	EX3DV4 - SN7791	DAE4 Sn1647	2.440	48.300	48.8	1.04	1.170	23.500	23.4	-0.43
SAR16	2023/5/27	2300	50	D2300V2-1006	EX3DV4 - SN3931	DAE4 Sn1696	2.320	48.300	46.4	-3.93	1.120	23.500	22.4	-4.68
SAR16	2023/5/4	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.800	55.400	56	1.08	1.260	24.900	25.2	1.20
SAR16	2023/5/9	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.740	55.400	54.8	-1.08	1.230	24.900	24.6	-1.20
SAR16	2023/5/16	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.750	55.400	55	-0.72	1.230	24.900	24.6	-1.20
SAR16	2023/5/20	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.680	55.400	53.6	-3.25	1.210	24.900	24.2	-2.81
SAR15	2023/5/20	2600	50	D2600V2-1078	EX3DV4 - SN7791	DAE4 Sn1647	2.940	55.400	58.8	6.14	1.330	24.900	26.6	6.83
SAR16	2023/5/22	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.730	55.400	54.6	-1.44	1.240	24.900	24.8	-0.40
SAR16	2023/5/26	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn1696	2.700	55.400	54	-2.53	1.230	24.900	24.6	-1.20
SAR15	2023/5/30	2600	50	D2600V2-1078	EX3DV4 - SN7791	DAE4 Sn1647	2.900	55.400	58	4.69	1.310	24.900	26.2	5.22
SAR15	2023/5/31	2600	50	D2600V2-1078	EX3DV4 - SN7791	DAE4 Sn1647	2.920	55.400	58.4	5.42	1.320	24.900	26.4	6.02



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SAR15	2023/6/1	2600	50	D2600V2-1078	EX3DV4 - SN7791	DAE4 Sn1647	2.970	55.400	59.4	7.22	1.340	24.900	26.8	7.63
SAR11	2023/7/7	2600	50	D2600V2-1078	EX3DV4 - SN7694	DAE4 Sn316	2.600	55.400	52	-6.14	1.170	24.900	23.4	-6.02
SAR13	2023/5/31	3300	50	D3300V2-1034	EX3DV4 - SN7700	DAE4 Sn1697	3.290	67.300	65.8	-2.23	1.270	25.900	25.4	-1.93
SAR16	2023/5/28	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn1696	3.360	67.200	67.2	0.00	1.340	25.100	26.8	6.77
SAR13	2023/5/31	3500	50	D3500V2-1014	EX3DV4 - SN7700	DAE4 Sn1697	3.160	67.200	63.2	-5.95	1.200	25.100	24	-4.38
SAR16	2023/6/1	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn1696	3.420	67.200	68.4	1.79	1.350	25.100	27	7.57
SAR12	2023/6/1	3500	50	D3500V2-1014	EX3DV4 - SN7590	DAE4 Sn699	3.450	67.200	69	2.68	1.360	25.100	27.2	8.37
SAR16	2023/6/2	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn1696	3.410	67.200	68.2	1.49	1.350	25.100	27	7.57
SAR15	2023/6/2	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn1647	3.100	67.200	62	-7.74	1.240	25.100	24.8	-1.20
SAR13	2023/6/2	3500	50	D3500V2-1014	EX3DV4 - SN7700	DAE4 Sn1697	3.240	67.200	64.8	-3.57	1.240	25.100	24.8	-1.20
SAR15	2023/6/3	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn1647	3.080	67.200	61.6	-8.33	1.230	25.100	24.6	-1.99
SAR15	2023/6/5	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn1647	3.180	67.200	63.6	-5.36	1.280	25.100	25.6	1.99
SAR13	2023/6/5	3500	50	D3500V2-1014	EX3DV4 - SN7700	DAE4 Sn1697	3.150	67.200	63	-6.25	1.200	25.100	24	-4.38
SAR15	2023/6/6	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn1647	3.310	67.200	66.2	-1.49	1.320	25.100	26.4	5.18
SAR15	2023/6/7	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn1647	3.400	67.200	68	1.19	1.350	25.100	27	7.57
SAR14	2023/6/8	3500	50	D3500V2-1014	EX3DV4 - SN3976	DAE4 Sn661	3.440	67.200	68.8	2.38	1.360	25.100	27.2	8.37
SAR11	2023/7/7	3500	50	D3500V2-1014	EX3DV4 - SN7694	DAE4 Sn316	3.220	67.200	64.4	-4.17	1.240	25.100	24.8	-1.20
SAR14	2023/7/7	3500	47	D3500V2-1014	EX3DV4 - SN3976	DAE4 Sn1707	2.900	67.200	61.7	-8.18	1.120	25.100	23.8	-5.06
SAR16	2023/5/20	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn1696	3.380	65.600	67.6	3.05	1.290	23.700	25.8	8.86
SAR16	2023/5/28	3700	50	D3700V2-1022	EX3DV4 - SN3931	DAE4 Sn1696	3.500	68.200	70	2.64	1.350	24.700	27	9.31
SAR13	2023/5/31	3700	50	D3700V2-1006	EX3DV4 - SN7700	DAE4 Sn1697	3.180	65.600	63.6	-3.05	1.170	23.700	23.4	-1.27
SAR16	2023/6/1	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn1696	3.560	65.600	71.2	8.54	1.250	23.700	25	5.49
SAR12	2023/6/1	3700	50	D3700V2-1006	EX3DV4 - SN7590	DAE4 Sn699	3.590	65.600	71.8	9.45	1.280	23.700	25.6	8.02
SAR16	2023/6/2	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn1696	3.510	65.600	70.2	7.01	1.250	23.700	25	5.49
SAR15	2023/6/7	3700	50	D3700V2-1006	EX3DV4 - SN7791	DAE4 Sn1647	3.260	65.600	65.2	-0.61	1.270	23.700	25.4	7.17
SAR13	2023/5/31	3900	50	D3900V2-1017-3900	EX3DV4 - SN7700	DAE4 Sn1697	3.380	68.700	67.6	-1.60	1.200	23.900	24	0.42
SAR13	2023/6/2	3900	50	D3900V2-1017-3900	EX3DV4 - SN7700	DAE4 Sn1697	3.670	68.700	73.4	6.84	1.310	23.900	26.2	9.62
SAR15	2023/6/3	3900	50	D3900V2-1017-3900	EX3DV4 - SN7791	DAE4 Sn1647	3.390	68.700	67.8	-1.31	1.250	23.900	25	4.60
SAR15	2023/6/5	3900	50	D3900V2-1017-3900	EX3DV4 - SN7791	DAE4 Sn1647	3.290	68.700	65.8	-4.22	1.240	23.900	24.8	3.77
SAR13	2023/6/5	3900	50	D3900V2-1017-3900	EX3DV4 - SN7700	DAE4 Sn1697	3.310	68.700	66.2	-3.64	1.180	23.900	23.6	-1.26
SAR15	2023/6/6	3900	50	D3900V2-1017-3900	EX3DV4 - SN7791	DAE4 Sn1647	3.270	68.700	65.4	-4.80	1.180	23.900	23.6	-1.26
SAR14	2023/6/8	3900	50	D3900V2-1017-3900	EX3DV4 - SN3976	DAE4 Sn661	3.440	68.700	68.8	0.15	1.270	23.900	25.4	6.28
SAR14	2023/7/7	3900	46	D3900V2-1017-3900	EX3DV4 - SN3976	DAE4 Sn1707	2.880	68.700	62.6	-8.87	1.000	23.900	21.7	-9.04

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 (%)
SAR17	2023/5/20	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.400	52.400	48	-8.40	1.140	24.700	22.8	-7.69
SAR17	2023/5/24	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.370	52.400	47.4	-9.54	1.120	24.700	22.4	-9.31
SAR17	2023/5/27	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.410	52.400	48.2	-8.02	1.150	24.700	23	-6.88
SAR17	2023/5/30	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.680	52.400	53.6	2.29	1.260	24.700	25.2	2.02
SAR17	2023/5/31	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.380	52.400	47.6	-9.16	1.130	24.700	22.6	-8.50
SAR17	2023/6/5	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.360	52.400	47.2	-9.92	1.120	24.700	22.4	-9.31
SAR17	2023/6/8	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4 Sn656	2.370	52.400	47.4	-9.54	1.140	24.700	22.8	-7.69
SAR17	2023/5/25	5250	50	D5GHZV2-1128-5250	EX3DV4 - SN7625	DAE4 Sn656	3.840	77.900	76.8	-1.41	1.160	22.600	23.2	2.65
SAR16	2023/5/30	5250	50	D5GHZV2-1128-5250	EX3DV4 - SN3931	DAE4 Sn1696	3.910	77.900	78.2	0.39	1.160	22.600	23.2	2.65
SAR17	2023/6/2	5250	50	D5GHZV2-1128-5250	EX3DV4 - SN7625	DAE4 Sn656	4.010	77.900	80.2	2.95	1.200	22.600	24	6.19
SAR14	2023/6/5	5250	50	D5GHZV2-1128-5250	EX3DV4 - SN7694	DAE4 Sn316	3.530	77.900	70.6	-9.37	1.020	22.600	20.4	-9.73
SAR14	2023/6/7	5250	50	D5GHZV2-1128-5250	EX3DV4 - SN7694	DAE4 Sn316	3.980	77.900	79.6	2.18	1.140	22.600	22.8	0.88
SAR17	2023/5/25	5600	50	D5GHZV2-1128-5600	EX3DV4 - SN7625	DAE4 Sn656	4.160	80.100	83.2	3.87	1.240	22.700	24.8	9.25
SAR16	2023/5/31	5600	50	D5GHZV2-1128-5600	EX3DV4 - SN3931	DAE4 Sn1696	3.680	80.100	73.6	-8.11	1.150	22.700	23	1.32
SAR17	2023/6/4	5600	50	D5GHZV2-1128-5600	EX3DV4 - SN7625	DAE4 Sn656	3.950	80.100	79	-1.37	1.190	22.700	23.8	4.85
SAR14	2023/6/5	5600	50	D5GHZV2-1128-5600	EX3DV4 - SN7694	DAE4 Sn316	3.960	80.100	79.2	-1.12	1.130	22.700	22.6	-0.44
SAR14	2023/6/7	5600	50	D5GHZV2-1128-5600	EX3DV4 - SN7694	DAE4 Sn316	4.150	80.100	83	3.62	1.180	22.700	23.6	3.96
SAR17	2023/5/25	5750	50	D5GHZV2-1128-5750	EX3DV4 - SN7625	DAE4 Sn656	3.910	79.300	78.2	-1.39	1.190	22.700	23.8	4.85
SAR16	2023/5/30	5750	50	D5GHZV2-1128-5750	EX3DV4 - SN3931	DAE4 Sn1696	4.240	79.300	84.8	6.94	1.230	22.700	24.6	8.37
SAR16	2023/5/31	5750	50	D5GHZV2-1128-5750	EX3DV4 - SN3931	DAE4 Sn1696	3.710	79.300	74.2	-6.43	1.150	22.700	23	1.32
SAR14	2023/6/5	5750	50	D5GHZV2-1128-5750	EX3DV4 - SN7694	DAE4 Sn316	3.600	79.300	72	-9.21	1.030	22.700	20.6	-9.25
SAR14	2023/6/7	5750	50	D5GHZV2-1128-5750	EX3DV4 - SN7694	DAE4 Sn316	3.770	79.300	75.4	-4.92	1.070	22.700	21.4	-5.73
SAR17	2023/5/25	5850	50	D5GHZV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn656	4.150	82.300	83	0.85	1.260	23.100	25.2	9.09
SAR17	2023/6/2	5850	50	D5GHZV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn656	3.860	82.300	77.2	-6.20	1.180	23.100	23.6	2.16
SAR17	2023/6/8	5850	50	D5GHZV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn656	4.070	82.300	81.4	-1.09	1.250	23.100	25	8.23
SAR13	2023/5/15	6500	100	D6.5GHZV2-1003	EX3DV4 - SN7700	DAE4 Sn1697	30.100	297.000	301	1.35	5.450	54.500	54.5	0.00

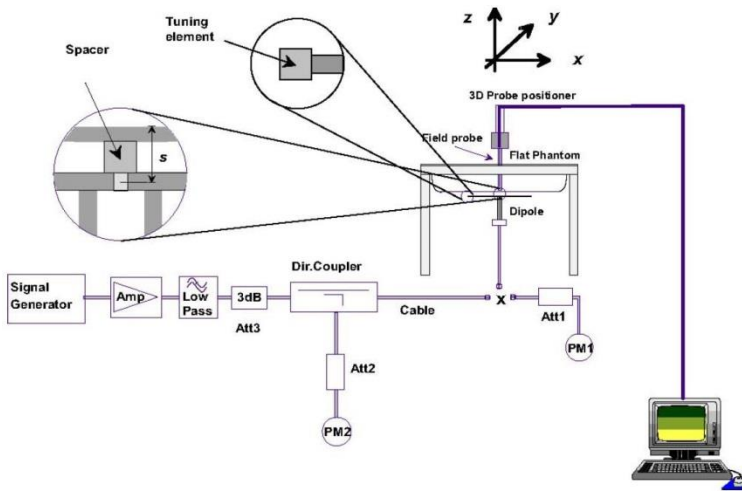


Fig 8.3.1 System Performance Check Setup

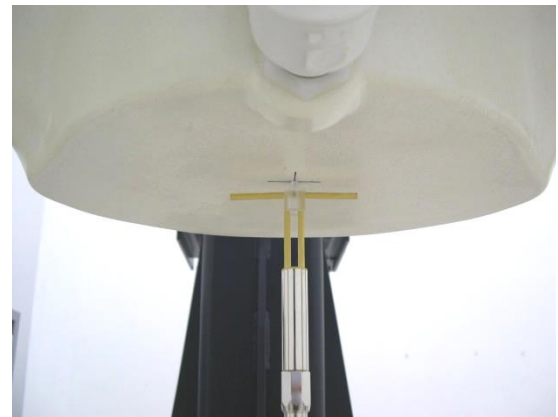


Fig 8.3.2 Setup Photo

11.3 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 Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR13-HY	10G	10GHz_1020	EUmmWV4 - SN9461	DAE4 SN1697	10	58.7	54.9	0.29	2023/5/10

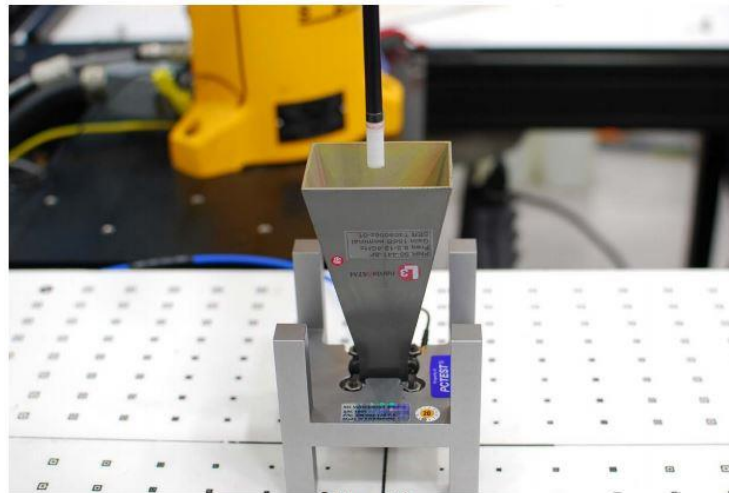


Figure 4-3
System Verification Setup Photo

System Performance Check Setup



12. WiFi/Bluetooth Output Power (Unit: dBm)

General Note:

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. 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.
3. 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.
4. 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).
5. 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.
6. 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.
7. 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)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. 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
10. 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



WLAN 2.4GHz Power index 1

2.4GHz WLAN				Ant 3		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	11.95	13.50	98.85
		6	2437	11.95	13.50	
		11	2462	11.85	13.50	
		12	2467	11.75	13.50	
		13	2472	11.85	13.50	

2.4GHz WLAN				Ant 4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	11.65	13.50	98.97
		6	2437	11.75	13.50	
		11	2462	11.95	13.50	
		12	2467	11.75	13.50	
		13	2472	11.95	13.50	

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
2.4GHz WLAN	802.11g 6Mbps	1	2412	11.95	13.50	11.55	13.50	14.76	16.50	93.46		
		6	2437	11.85	13.50	11.55	13.50	14.71	16.50			
		11	2462	11.65	13.50	11.75	13.50	14.71	16.50			
		12	2467	11.55	13.50	11.55	13.50	14.56	16.50			
		13	2472	11.95	13.00	11.55	13.00	14.76	16.00			
	802.11n-HT20 MCS0	1	2412	Not required	Not required	Not required	Not required	Not required	Not required	Not required	13.50	16.50
		6	2437								13.50	16.50
		11	2462								13.50	16.50
		12	2467								13.50	16.50
		13	2472								13.50	16.50
	802.11ac-VHT20 MCS0	1	2412								13.50	16.50
		6	2437								13.50	16.50
		11	2462								13.50	16.50
		12	2467								13.50	16.50
		13	2472								13.50	16.50
	802.11ax-HE20 MCS0	1	2412								13.50	16.50
		6	2437								13.50	16.50
		11	2462								13.50	16.50
		12	2467								13.50	16.50
		13	2472								13.50	16.50
802.11be-EHT20 MCS0	1	2412	13.50								16.50	
	6	2437	13.50								16.50	
	11	2462	13.50								16.50	
	12	2467	13.50								16.50	
	13	2472	13.50								16.50	



WLAN 2.4GHz Power index 2

2.4GHz WLAN				Ant 3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	11.95	12.50	98.85	
	6	2437	11.95	12.50		
	11	2462	11.85	12.50		
	12	2467	11.75	12.50		
	13	2472	11.85	12.50		

2.4GHz WLAN				Ant 4		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	11.65	12.50	98.97	
	6	2437	11.75	12.50		
	11	2462	11.95	12.50		
	12	2467	11.75	12.50		
	13	2472	11.95	12.50		

Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN 802.11g 6Mbps	1	2412	11.95	12.50	11.55	12.50	14.76	15.50	93.46
	6	2437	11.85	12.50	11.55	12.50	14.71	15.50	
	11	2462	11.65	12.50	11.75	12.50	14.71	15.50	
	12	2467	11.55	12.50	11.55	12.50	14.56	15.50	
	13	2472	11.95	12.50	11.55	12.50	14.76	15.50	
802.11n-HT20 MCS0	1	2412	Not required	12.50	Not required	12.50	Not required	15.50	Not required
	6	2437		12.50		15.50			
	11	2462		12.50		15.50			
	12	2467		12.50		15.50			
13	2472	12.50		15.50					
802.11ac-VHT20 MCS0	1	2412		12.50		15.50			
	6	2437		12.50		15.50			
	11	2462		12.50		15.50			
	12	2467		12.50		15.50			
802.11ax-HE20 MCS0	1	2412		12.50		15.50			
	6	2437		12.50		15.50			
	11	2462		12.50		15.50			
	12	2467		12.50		15.50			
802.11be-EHT20 MCS0	1	2412		12.50		15.50			
	6	2437		12.50		15.50			
	11	2462		12.50		15.50			
	12	2467	12.50	15.50					
	13	2472	12.50	15.50					

WLAN 2.4GHz Power index 3/4

2.4GHz WLAN				Ant 3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	9.85	10.00	98.85	
	6	2437	9.75	10.00		
	11	2462	9.65	10.00		
	12	2467	9.85	10.00		
	13	2472	9.75	10.00		

2.4GHz WLAN				Ant 4		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	9.85	10.00	98.97	
	6	2437	9.85	10.00		
	11	2462	9.95	10.00		
	12	2467	9.85	10.00		
	13	2472	9.85	10.00		

Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN 802.11g 6Mbps	1	2412	9.85	10.00	9.85	10.00	12.86	13.00	93.46
	6	2437	9.55	10.00	9.55	10.00	12.56	13.00	
	11	2462	9.85	10.00	9.95	10.00	12.91	13.00	
	12	2467	9.75	10.00	9.75	10.00	12.76	13.00	
	13	2472	9.95	10.00	9.55	10.00	12.76	13.00	
802.11n-HT20 MCS0	1	2412	Not required	10.00	Not required	10.00	Not required	13.00	Not required
	6	2437		10.00		13.00			
	11	2462		10.00		13.00			
	12	2467		10.00		13.00			
13	2472	10.00		13.00					
802.11ac-VHT20 MCS0	1	2412		10.00		13.00			
	6	2437		10.00		13.00			
	11	2462		10.00		13.00			
	12	2467		10.00		13.00			
802.11ax-HE20 MCS0	1	2412		10.00		13.00			
	6	2437		10.00		13.00			
	11	2462		10.00		13.00			
	12	2467		10.00		13.00			
802.11be-EHT20 MCS0	1	2412		10.00		13.00			
	6	2437		10.00		13.00			
	11	2462		10.00		13.00			
	12	2467	10.00	13.00					
	13	2472	10.00	13.00					
	13	2472	10.00	13.00					
	13	2472	10.00	13.00					
	13	2472	10.00	13.00					

WLAN 2.4GHz Power index 5/6

2.4GHz WLAN				Ant 3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	20.75	21.00	98.85	
	6	2437	20.95	21.00		
	11	2462	20.85	21.00		
	12	2467	20.75	21.00		
	13	2472	20.95	21.00		

2.4GHz WLAN				Ant 4		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN 802.11b 1Mbps	1	2412	20.75	21.00	98.97	
	6	2437	20.95	21.00		
	11	2462	20.95	21.00		
	12	2467	20.85	21.00		
	13	2472	19.55	20.00		

Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN 802.11g 6Mbps	1	2412	20.85	21.00	20.95	21.00	23.91	24.00	93.46
	6	2437	20.95	21.00	20.95	21.00	23.96	24.00	
	11	2462	19.65	20.00	19.65	20.00	22.66	23.00	
	12	2467	16.45	16.50	16.25	16.50	19.36	19.50	
	13	2472	12.95	13.00	12.25	13.00	15.62	16.00	
802.11n-HT20 MCS0	1	2412	Not required	21.00	Not required	21.00	Not required	24.00	Not required
	6	2437		21.00					
	11	2462		18.50		21.50			
	12	2467		16.00		19.00			
13	2472	13.50		16.50					
802.11ac-VHT20 MCS0	1	2412		21.00		21.00		24.00	
	6	2437		21.00		24.00			
	11	2462		18.50		21.50			
	12	2467		16.00		19.00			
802.11ax-HE20 MCS0	1	2412		21.00		21.00		24.00	
	6	2437		21.00		24.00			
	11	2462		18.50		21.50			
	12	2467		16.00		19.00			
802.11be-EHT20 MCS0	1	2412	21.00	21.00	24.00				
	6	2437	21.00	24.00					
	11	2462	19.00	22.00					
	12	2467	16.00	19.00					
	13	2472	13.50	16.50					

WLAN 2.4GHz Power index 7

2.4GHz WLAN				Ant 3		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.75	17.00	98.85
		6	2437	17.00	17.00	
		11	2462	16.85	17.00	
		12	2467	16.85	17.00	
		13	2472	17.00	17.00	

2.4GHz WLAN				Ant 4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	16.75	17.00	98.97
		6	2437	16.55	17.00	
		11	2462	16.95	17.00	
		12	2467	16.85	17.00	
		13	2472	16.95	17.00	

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		Duty Cycle %		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit			
2.4GHz WLAN	802.11g 6Mbps	1	2412	16.75	17.00	16.55	17.00	19.66	20.00	93.46		
		6	2437	16.85	17.00	16.65	17.00	19.76	20.00			
		11	2462	16.75	17.00	16.85	17.00	19.81	20.00			
		12	2467	16.45	16.50	16.25	16.50	19.36	19.50			
		13	2472	12.95	13.00	12.25	13.00	15.62	16.00			
	802.11n-HT20 MCS0	1	2412	Not required	Not required	Not required	Not required	Not required	Not required	Not required	17.00	20.00
		6	2437								17.00	20.00
		11	2462								17.00	20.00
		12	2467								16.00	19.00
		13	2472								13.50	16.50
	802.11ac-VHT20 MCS0	1	2412								17.00	20.00
		6	2437								17.00	20.00
		11	2462								17.00	20.00
		12	2467								16.00	19.00
		13	2472								13.50	16.50
	802.11ax-HE20 MCS0	1	2412								17.00	20.00
		6	2437								17.00	20.00
		11	2462								17.00	20.00
		12	2467								16.00	19.00
		13	2472								13.50	16.50
802.11be-EHT20 MCS0	1	2412	17.00								20.00	
	6	2437	17.00								20.00	
	11	2462	17.00								20.00	
	12	2467	16.00								19.00	
	13	2472	13.50								16.50	



WLAN 2.4GHz Power index 8

2.4GHz WLAN				Ant 3		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.25	14.50	98.85
		6	2437	14.50	14.50	
		11	2462	14.25	14.50	
		12	2467	14.15	14.50	
		13	2472	14.45	14.50	

2.4GHz WLAN				Ant 4		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.50	14.50	98.97
		6	2437	14.45	14.50	
		11	2462	14.15	14.50	
		12	2467	14.15	14.50	
		13	2472	14.15	14.50	

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		Duty Cycle %
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
2.4GHz WLAN	802.11g 6Mbps	1	2412	14.45	14.50	14.05	14.50	17.26	17.50	93.46
		6	2437	14.35	14.50	14.45	14.50	17.41	17.50	
		11	2462	14.35	14.50	14.05	14.50	17.21	17.50	
		12	2467	14.35	14.50	14.15	14.50	17.26	17.50	
		13	2472	12.95	13.00	12.25	13.00	15.62	16.00	
	802.11n-HT20 MCS0	1	2412	Not required	Not required	Not required	14.50	14.50	17.50	Not required
		6	2437				14.50	14.50	17.50	
		11	2462				14.50	14.50	17.50	
		12	2467				14.50	14.50	17.50	
		13	2472				13.50	13.50	16.50	
	802.11ac-VHT20 MCS0	1	2412				14.50	14.50	17.50	
		6	2437				14.50	14.50	17.50	
		11	2462				14.50	14.50	17.50	
		12	2467				14.50	14.50	17.50	
		13	2472				13.50	13.50	16.50	
	802.11ax-HE20 MCS0	1	2412				14.50	14.50	17.50	
		6	2437				14.50	14.50	17.50	
		11	2462				14.50	14.50	17.50	
		12	2467				14.50	14.50	17.50	
		13	2472				13.50	13.50	16.50	
802.11be-EHT20 MCS0	1	2412	14.50				14.50	17.50		
	6	2437	14.50				14.50	17.50		
	11	2462	14.50				14.50	17.50		
	12	2467	14.50				14.50	17.50		
	13	2472	13.50				13.50	16.50		



WLAN 5.2GHz Power index 1/2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	14.50	Not required	14.50	Not required	17.50	Not required
		40	5200							
		44	5220							
		48	5240							
	802.11n-HT20 MCS0	36	5180							
		40	5200							
		44	5220							
		48	5240							
	802.11n-HT40 MCS0	38	5190							
		46	5230							
	802.11ac-VHT20 MCS0	36	5180							
		40	5200							
		44	5220							
		48	5240							
	802.11ac-VHT40 MCS0	38	5190							
		46	5230							
	802.11ac-VHT80 MCS0	42	5210							
	802.11ax-HE20 MCS0	36	5180							
		40	5200							
		44	5220							
		48	5240							
	802.11ax-HE40 MCS0	38	5190							
		46	5230							
	802.11ax-HE80 MCS0	42	5210							
	802.11be-EHT20 MCS0	36	5180							
		40	5200							
		44	5220							
		48	5240							
802.11be-EHT40 MCS0	38	5190								
	46	5230								
802.11be-EHT80 MCS0	42	5210								



WLAN 5.2GHz Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	10.50	Not required	10.50	Not required	13.50	Not required
		40	5200		10.50		13.50			
		44	5220		10.50		13.50			
		48	5240		10.50		13.50			
	802.11n-HT20 MCS0	36	5180		10.50		13.50			
		40	5200		10.50		13.50			
		44	5220		10.50		13.50			
		48	5240		10.50		13.50			
	802.11n-HT40 MCS0	38	5190		10.50		13.50			
		46	5230		10.50		13.50			
	802.11ac-VHT20 MCS0	36	5180		10.50		13.50			
		40	5200		10.50		13.50			
		44	5220		10.50		13.50			
		48	5240		10.50		13.50			
	802.11ac-VHT40 MCS0	38	5190		10.50		13.50			
		46	5230		10.50		13.50			
	802.11ac-VHT80 MCS0	42	5210		10.50		13.50			
	802.11ax-HE20 MCS0	36	5180		10.50		13.50			
		40	5200		10.50		13.50			
		44	5220		10.50		13.50			
		48	5240		10.50		13.50			
	802.11ax-HE40 MCS0	38	5190		10.50		13.50			
		46	5230		10.50		13.50			
	802.11ax-HE80 MCS0	42	5210		10.50		13.50			
	802.11be-EHT20 MCS0	36	5180		10.50		13.50			
		40	5200		10.50		13.50			
44		5220	10.50	13.50						
48		5240	10.50	13.50						
802.11be-EHT40 MCS0	38	5190	10.50	13.50						
	46	5230	10.50	13.50						
802.11be-EHT80 MCS0	42	5210	10.50	13.50						

WLAN 5.2GHz Power index 5

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4					
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	19.50	Not required	19.50	Not required	22.50	Not required			
		40	5200										
		44	5220										
		48	5240										
	802.11n-HT20 MCS0	36	5180								19.00	19.00	22.00
		40	5200								19.50	19.50	22.50
		44	5220								19.50	19.50	22.50
		48	5240								19.50	19.50	22.50
	802.11n-HT40 MCS0	38	5190								17.00	17.00	20.00
		46	5230								19.50	19.50	22.50
	802.11ac-VHT20 MCS0	36	5180								19.00	19.00	22.00
		40	5200								19.50	19.50	22.50
		44	5220								19.50	19.50	22.50
		48	5240								19.50	19.50	22.50
	802.11ac-VHT40 MCS0	38	5190								17.00	17.00	20.00
		46	5230								19.50	19.50	22.50
	802.11ac-VHT80 MCS0	42	5210								17.00	17.00	20.00
	802.11ax-HE20 MCS0	36	5180								19.00	19.00	22.00
		40	5200								19.50	19.50	22.50
		44	5220								19.50	19.50	22.50
		48	5240								19.50	19.50	22.50
	802.11ax-HE40 MCS0	38	5190								17.00	17.00	20.00
		46	5230								19.50	19.50	22.50
	802.11ax-HE80 MCS0	42	5210								17.00	17.00	20.00
	802.11be-EHT20 MCS0	36	5180								19.00	19.00	22.00
		40	5200								19.50	19.50	22.50
		44	5220								19.50	19.50	22.50
		48	5240								19.50	19.50	22.50
802.11be-EHT40 MCS0	38	5190	17.00	17.00	20.00								
	46	5230	19.50	19.50	22.50								
802.11be-EHT80 MCS0	42	5210	17.00	17.00	20.00								



WLAN 5.2GHz Power index 6

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	19.00	Not required	19.00	Not required	22.00	Not required
		40	5200		19.00		22.00			
		44	5220		19.00		22.00			
		48	5240		19.00		22.00			
	802.11n-HT20 MCS0	36	5180		19.00		19.00		22.00	
		40	5200		19.00		19.00		22.00	
		44	5220		19.00		19.00		22.00	
		48	5240		19.00		19.00		22.00	
	802.11n-HT40 MCS0	38	5190		17.00		17.00		20.00	
		46	5230		19.00		19.00		22.00	
	802.11ac-VHT20 MCS0	36	5180		19.00		19.00		22.00	
		40	5200		19.00		19.00		22.00	
		44	5220		19.00		19.00		22.00	
	802.11ac-VHT40 MCS0	38	5190		17.00		17.00		20.00	
		46	5230		19.00		19.00		22.00	
	802.11ac-VHT80 MCS0	42	5210		17.00		17.00		20.00	
	802.11ax-HE20 MCS0	36	5180		19.00		19.00		22.00	
		40	5200		19.00		19.00		22.00	
		44	5220		19.00		19.00		22.00	
	802.11ax-HE40 MCS0	38	5190		17.00		17.00		20.00	
		46	5230		19.00		19.00		22.00	
	802.11ax-HE80 MCS0	42	5210		17.00		17.00		20.00	
	802.11be-EHT20 MCS0	36	5180		19.00		19.00		22.00	
		40	5200		19.00		19.00		22.00	
		44	5220		19.00		19.00		22.00	
	802.11be-EHT40 MCS0	38	5190		17.00		17.00		20.00	
		46	5230		19.00		19.00		22.00	
	802.11be-EHT80 MCS0	42	5210		17.00		17.00		20.00	



WLAN 5.2GHz Power index 7/8/9

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not required	15.00	Not required	15.00	Not required	18.00	Not required				
		40	5200		15.00		18.00							
		44	5220		15.00		18.00							
		48	5240		15.00		18.00							
	802.11n-HT20 MCS0	36	5180		15.00		15.00		18.00					
		40	5200		15.00		15.00		18.00					
		44	5220		15.00		15.00		18.00					
		48	5240		15.00		15.00		18.00					
	802.11n-HT40 MCS0	38	5190		15.00		15.00		18.00					
		46	5230		15.00		15.00		18.00					
	802.11ac-VHT20 MCS0	36	5180		15.00		15.00		18.00					
		40	5200		15.00		15.00		18.00					
		44	5220		15.00		15.00		18.00					
		48	5240		15.00		15.00		18.00					
	802.11ac-VHT40 MCS0	38	5190		15.00		15.00		18.00					
		46	5230		15.00		15.00		18.00					
	802.11ac-VHT80 MCS0	42	5210		14.55		15.00		15.00		17.79	18.00	91.94	
	802.11ax-HE20 MCS0	36	5180		Not required		15.00		Not required		15.00	Not required	18.00	Not required
		40	5200				15.00				18.00			
		44	5220				15.00				18.00			
		48	5240				15.00				18.00			
	802.11ax-HE40 MCS0	38	5190				15.00				15.00		18.00	
		46	5230				15.00				15.00		18.00	
	802.11ax-HE80 MCS0	42	5210				15.00				15.00		18.00	
	802.11be-EHT20 MCS0	36	5180				15.00				15.00		18.00	
		40	5200				15.00				15.00		18.00	
		44	5220				15.00				15.00		18.00	
		48	5240				15.00				15.00		18.00	
802.11be-EHT40 MCS0	38	5190	15.00	15.00		18.00								
	46	5230	15.00	15.00		18.00								
802.11be-EHT80 MCS0	42	5210	15.00	15.00		18.00								



WLAN 5.3GHz Power index 1/2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	14.50	Not required	14.50	Not required	17.50	Not required				
		56	5280		14.50		17.50							
		60	5300		14.50		17.50							
		64	5320		14.50		17.50							
	802.11n-HT20 MCS0	52	5260		14.50		14.50		17.50					
		56	5280		14.50		14.50		17.50					
		60	5300		14.50		14.50		17.50					
		64	5320		14.50		14.50		17.50					
	802.11n-HT40 MCS0	54	5270		14.50		14.50		17.50					
		62	5310		14.50		14.50		17.50					
	802.11ac-VHT20 MCS0	52	5260		14.50		14.50		17.50					
		56	5280		14.50		14.50		17.50					
		60	5300		14.50		14.50		17.50					
		64	5320		14.50		14.50		17.50					
	802.11ac-VHT40 MCS0	54	5270		14.50		14.50		17.50					
		62	5310		14.50		14.50		17.50					
	802.11ac-VHT80 MCS0	58	5290		13.95		14.50		14.40		14.50	17.19	17.50	91.94
	802.11ac-VHT160 MCS0	50	5250		13.55		14.50		14.2		14.50	16.9	17.50	87.95
	802.11ax-HE20 MCS0	52	5260		Not required		14.50		Not required		14.50	Not required	17.50	Not required
		56	5280				14.50				17.50			
		60	5300				14.50				17.50			
		64	5320				14.50				17.50			
	802.11ax-HE40 MCS0	54	5270				14.50				14.50		17.50	
		62	5310				14.50				14.50		17.50	
	802.11ax-HE80 MCS0	58	5290				14.50				14.50		17.50	
	802.11ax-HE160 MCS0	50	5250				14.5				14.5		17.50	
	802.11be-EHT20 MCS0	52	5260				14.50				14.50		17.50	
		56	5280				14.50				14.50		17.50	
60		5300	14.50	14.50		17.50								
64		5320	14.50	14.50		17.50								
802.11be-EHT40 MCS0	54	5270	14.50	14.50		17.50								
	62	5310	14.50	14.50		17.50								
802.11be-EHT80 MCS0	58	5290	14.50	14.50		17.50								
802.11be-EHT160 MCS0	50	5250	14.50	14.50		17.50								



WLAN 5.3GHz Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	10.50	Not required	10.50	Not required	13.50	Not required				
		56	5280		10.50		13.50							
		60	5300		10.50		13.50							
		64	5320		10.50		13.50							
	802.11n-HT20 MCS0	52	5260		10.50		10.50		13.50					
		56	5280		10.50		10.50		13.50					
		60	5300		10.50		10.50		13.50					
		64	5320		10.50		10.50		13.50					
	802.11n-HT40 MCS0	54	5270		10.50		10.50		13.50					
		62	5310		10.50		10.50		13.50					
	802.11ac-VHT20 MCS0	52	5260		10.50		10.50		13.50					
		56	5280		10.50		10.50		13.50					
		60	5300		10.50		10.50		13.50					
		64	5320		10.50		10.50		13.50					
	802.11ac-VHT40 MCS0	54	5270		10.50		10.50		13.50					
		62	5310		10.50		10.50		13.50					
	802.11ac-VHT80 MCS0	58	5290		10.50		10.50		13.50					
	802.11ac-VHT160 MCS0	50	5250		10.5		10.5		13.5		13.50	87.95		
	802.11ax-HE20 MCS0	52	5260		Not required		10.50		Not required		10.50	Not required	13.50	Not required
		56	5280				10.50				13.50			
		60	5300				10.50				13.50			
		64	5320				10.50				13.50			
	802.11ax-HE40 MCS0	54	5270				10.50				10.50		13.50	
		62	5310				10.50				10.50		13.50	
	802.11ax-HE80 MCS0	58	5290				10.50				10.50		13.50	
	802.11ax-HE160 MCS0	50	5250				10.50				10.50		13.50	
	802.11be-EHT20 MCS0	52	5260				10.50				10.50		13.50	
		56	5280				10.50				10.50		13.50	
60		5300	10.50	10.50		13.50								
64		5320	10.50	10.50		13.50								
802.11be-EHT40 MCS0	54	5270	10.50	10.50		13.50								
	62	5310	10.50	10.50		13.50								
802.11be-EHT80 MCS0	58	5290	10.50	10.50		13.50								
802.11be-EHT160 MCS0	50	5250	10.50	10.50		13.50								



WLAN 5.3GHz Power index 5

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	19.50	Not required	19.50	Not required	22.50	Not required				
		56	5280		19.50		19.50		22.50					
		60	5300		19.50		19.50		22.50					
		64	5320		19.00		19.00		22.00					
	802.11n-HT20 MCS0	52	5260		19.50		19.50		19.50		22.50			
		56	5280		19.50		19.50		19.50		22.50			
		60	5300		19.50		19.50		19.50		22.50			
		64	5320		19.00		19.00		19.00		22.00			
	802.11n-HT40 MCS0	54	5270		18.15		19.50		18.70		19.50	21.44	22.50	96.79
		62	5310		15.85		17.00		16.30		17.00	19.09	20.00	
	802.11ac-VHT20 MCS0	52	5260		Not required		19.50		Not required		19.50	Not required	22.50	Not required
		56	5280				19.50				19.50		22.50	
		60	5300	19.50		19.50	22.50							
		64	5320	19.00		19.00	22.00							
	802.11ac-VHT40 MCS0	54	5270	19.50		19.50	19.50	19.50		22.50				
		62	5310	17.00		17.00	17.00	20.00						
	802.11ac-VHT80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ac-VHT160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11ax-HE20 MCS0	52	5260	19.50		19.50	19.50	22.50						
		56	5280	19.50		19.50	19.50	22.50						
		60	5300	19.50		19.50	19.50	22.50						
		64	5320	19.00		19.00	19.00	22.00						
	802.11ax-HE40 MCS0	54	5270	19.50		19.50	19.50	22.50						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ax-HE80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ax-HE160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11be-EHT20 MCS0	52	5260	19.50		19.50	19.50	22.50						
		56	5280	19.50		19.50	19.50	22.50						
60		5300	19.50	19.50		19.50	22.50							
64		5320	19.00	19.00		19.00	22.00							
802.11be-EHT40 MCS0	54	5270	19.50	19.50		19.50	22.50							
	62	5310	17.00	17.00		17.00	20.00							
802.11be-EHT80 MCS0	58	5290	17.00	17.00		17.00	20.00							
802.11be-EHT160 MCS0	50	5250	15.00	15.00		15.00	18.00							



WLAN 5.3GHz Power index 6

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	19.00	Not required	19.00	Not required	22.00	Not required				
		56	5280		19.00		19.00		22.00					
		60	5300		19.00		19.00		22.00					
		64	5320		19.00		19.00		22.00					
	802.11n-HT20 MCS0	52	5260		19.00		19.00		19.00		22.00			
		56	5280		19.00		19.00		19.00		22.00			
		60	5300		19.00		19.00		19.00		22.00			
		64	5320		19.00		19.00		19.00		22.00			
	802.11n-HT40 MCS0	54	5270		18.15		19.00		18.70		19.00	21.44	22.00	96.79
		62	5310		15.85		17.00		16.30		17.00	19.09	20.00	
	802.11ac-VHT20 MCS0	52	5260		Not required		19.00		Not required		19.00	Not required	22.00	Not required
		56	5280				19.00				19.00		22.00	
		60	5300	19.00		19.00	22.00							
		64	5320	19.00		19.00	22.00							
	802.11ac-VHT40 MCS0	54	5270	19.00		19.00	19.00	19.00		22.00				
		62	5310	17.00		17.00	17.00	20.00						
	802.11ac-VHT80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ac-VHT160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11ax-HE20 MCS0	52	5260	19.00		19.00	19.00	22.00						
		56	5280	19.00		19.00	19.00	22.00						
		60	5300	19.00		19.00	19.00	22.00						
		64	5320	19.00		19.00	19.00	22.00						
	802.11ax-HE40 MCS0	54	5270	19.00		19.00	19.00	22.00						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ax-HE80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ax-HE160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11be-EHT20 MCS0	52	5260	19.00		19.00	19.00	22.00						
		56	5280	19.00		19.00	19.00	22.00						
60		5300	19.00	19.00		19.00	22.00							
64		5320	19.00	19.00		19.00	22.00							
802.11be-EHT40 MCS0	54	5270	19.00	19.00		19.00	22.00							
	62	5310	17.00	17.00		17.00	20.00							
802.11be-EHT80 MCS0	58	5290	17.00	17.00		17.00	20.00							
802.11be-EHT160 MCS0	50	5250	15.00	15.00		15.00	18.00							



WLAN 5.3GHz Power index 7

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	18.50	Not required	18.50	Not required	21.50	Not required				
		56	5280		18.50		18.50		21.50					
		60	5300		18.50		18.50		21.50					
		64	5320		18.50		18.50		21.50					
	802.11n-HT20 MCS0	52	5260		18.50		18.50		18.50		21.50			
		56	5280		18.50		18.50		18.50		21.50			
		60	5300		18.50		18.50		18.50		21.50			
		64	5320		18.50		18.50		18.50		21.50			
	802.11n-HT40 MCS0	54	5270		16.65		18.50		17.20		18.50	19.94	21.50	96.79
		62	5310		15.85		17.00		16.30		17.00	19.09	20.00	
	802.11ac-VHT20 MCS0	52	5260		Not required		18.50		Not required		18.50	Not required	21.50	Not required
		56	5280				18.50				18.50		21.50	
		60	5300	18.50		18.50	21.50							
		64	5320	18.50		18.50	21.50							
	802.11ac-VHT40 MCS0	54	5270	18.50		18.50	18.50	21.50						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ac-VHT80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ac-VHT160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11ax-HE20 MCS0	52	5260	18.50		18.50	18.50	21.50						
		56	5280	18.50		18.50	18.50	21.50						
		60	5300	18.50		18.50	18.50	21.50						
		64	5320	18.50		18.50	18.50	21.50						
	802.11ax-HE40 MCS0	54	5270	18.50		18.50	18.50	21.50						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ax-HE80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ax-HE160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11be-EHT20 MCS0	52	5260	18.50	18.50	18.50	21.50							
		56	5280	18.50	18.50	18.50	21.50							
60		5300	18.50	18.50	18.50	21.50								
64		5320	18.50	18.50	18.50	21.50								
802.11be-EHT40 MCS0	54	5270	18.50	18.50	18.50	21.50								
	62	5310	17.00	17.00	17.00	20.00								
802.11be-EHT80 MCS0	58	5290	17.00	17.00	17.00	20.00								
802.11be-EHT160 MCS0	50	5250	15.00	15.00	15.00	18.00								



WLAN 5.3GHz Power index 8/9

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not required	17.50	Not required	17.50	Not required	20.50	Not required				
		56	5280		17.50		17.50		20.50					
		60	5300		17.50		17.50		20.50					
		64	5320		17.50		17.50		20.50					
	802.11n-HT20 MCS0	52	5260		17.50		17.50		17.50		20.50			
		56	5280		17.50		17.50		17.50		20.50			
		60	5300		17.50		17.50		17.50		20.50			
		64	5320		17.50		17.50		17.50		20.50			
	802.11n-HT40 MCS0	54	5270		16.65		17.50		17.20		17.50	19.94	20.50	96.79
		62	5310		15.85		17.00		16.30		17.00	19.09	20.00	
	802.11ac-VHT20 MCS0	52	5260		Not required		17.50		Not required		17.50	Not required	20.50	Not required
		56	5280				17.50				17.50		20.50	
		60	5300	17.50		17.50	20.50							
		64	5320	17.50		17.50	20.50							
	802.11ac-VHT40 MCS0	54	5270	17.50		17.50	17.50	20.50						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ac-VHT80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ac-VHT160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11ax-HE20 MCS0	52	5260	17.50		17.50	17.50	20.50						
		56	5280	17.50		17.50	17.50	20.50						
		60	5300	17.50		17.50	17.50	20.50						
		64	5320	17.50		17.50	17.50	20.50						
	802.11ax-HE40 MCS0	54	5270	17.50		17.50	17.50	20.50						
		62	5310	17.00		17.00	17.00	20.00						
	802.11ax-HE80 MCS0	58	5290	17.00		17.00	17.00	20.00						
	802.11ax-HE160 MCS0	50	5250	15.00		15.00	15.00	18.00						
	802.11be-EHT20 MCS0	52	5260	17.50	17.50	17.50	20.50							
		56	5280	17.50	17.50	17.50	20.50							
60		5300	17.50	17.50	17.50	20.50								
64		5320	17.50	17.50	17.50	20.50								
802.11be-EHT40 MCS0	54	5270	17.50	17.50	17.50	20.50								
	62	5310	17.00	17.00	17.00	20.00								
802.11be-EHT80 MCS0	58	5290	17.00	17.00	17.00	20.00								
802.11be-EHT160 MCS0	50	5250	15.00	15.00	15.00	18.00								



WLAN 5.5GHz Power index 1/2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	15.00	Not required	15.00	Not required	18.00	Not required				
		116	5580		15.00		18.00							
		124	5620		15.00		18.00							
		132	5660		15.00		18.00							
		144	5720		15.00		18.00							
	802.11n-HT20 MCS0	100	5500		15.00		18.00							
		116	5580		15.00		18.00							
		124	5620		15.00		18.00							
		132	5660		15.00		18.00							
		144	5720		15.00		18.00							
	802.11n-HT40 MCS0	102	5510		15.00		18.00							
		110	5550		15.00		18.00							
		126	5630		15.00		18.00							
		134	5670		15.00		18.00							
		142	5710		15.00		18.00							
	802.11ac-VHT20 MCS0	100	5500		15.00		18.00							
		116	5580		15.00		18.00							
		124	5620		15.00		18.00							
		132	5660		15.00		18.00							
		144	5720		15.00		18.00							
	802.11ac-VHT40 MCS0	102	5510		15.00		18.00							
		110	5550		15.00		18.00							
		126	5630		15.00		18.00							
		134	5670		15.00		18.00							
		142	5710		15.00		18.00							
	802.11ac-VHT80 MCS0	106	5530		15.00		18.00							
		122	5610		15.00		18.00							
		138	5690		15.00		18.00							
		114	5570		14.65		15.00		14.90		15.00	17.79	18.00	87.95
		802.11ax-HE20 MCS0	100		5500		15.00		18.00					
	116		5580		15.00		18.00							
	124		5620		15.00		18.00							
	132		5660		15.00		18.00							
	144		5720		15.00		18.00							
	802.11ax-HE40 MCS0	102	5510		15.00		18.00							
		110	5550		15.00		18.00							
		126	5630		15.00		18.00							
		134	5670		15.00		18.00							
		142	5710		15.00		18.00							
	802.11ax-HE80 MCS0	106	5530		15.00		18.00							
		122	5610		15.00		18.00							
		138	5690		15.00		18.00							
	802.11ax-HE160 MCS0	114	5570		15.00		18.00							
	802.11be-EHT20 MCS0	100	5500		15.00		18.00							
116		5580	15.00	18.00										
124		5620	15.00	18.00										
132		5660	15.00	18.00										
144		5720	15.00	18.00										
802.11be-EHT40 MCS0	102	5510	15.00	18.00										
	110	5550	15.00	18.00										
	126	5630	15.00	18.00										
	134	5670	15.00	18.00										
	142	5710	15.00	18.00										
802.11be-EHT80 MCS0	106	5530	15.00	18.00										
	122	5610	15.00	18.00										
	138	5690	15.00	18.00										
802.11be-EHT160 MCS0	114	5570	15.00	18.00										



WLAN 5.5GHz Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	11.00	Not required	11.00	Not required	14.00	Not required				
		116	5580		11.00		14.00							
		124	5620		11.00		14.00							
		132	5660		11.00		14.00							
		144	5720		11.00		14.00							
	802.11n-HT20 MCS0	100	5500		11.00		14.00							
		116	5580		11.00		14.00							
		124	5620		11.00		14.00							
		132	5660		11.00		14.00							
		144	5720		11.00		14.00							
	802.11n-HT40 MCS0	102	5510		11.00		14.00							
		110	5550		11.00		14.00							
		126	5630		11.00		14.00							
		134	5670		11.00		14.00							
		142	5710		11.00		14.00							
	802.11ac-VHT20 MCS0	100	5500		11.00		14.00							
		116	5580		11.00		14.00							
		124	5620		11.00		14.00							
		132	5660		11.00		14.00							
		144	5720		11.00		14.00							
	802.11ac-VHT40 MCS0	102	5510		11.00		14.00							
		110	5550		11.00		14.00							
		126	5630		11.00		14.00							
		134	5670		11.00		14.00							
		142	5710		11.00		14.00							
	802.11ac-VHT80 MCS0	106	5530		11.00		14.00							
		122	5610		11.00		14.00							
		138	5690		11.00		14.00							
		114	5570		11.00		14.00							
		114	5570		11.00		14.00							
	802.11ac-VHT160 MCS0	114	5570		11.00		14.00		10.50		11.00	13.77	14.00	87.95
	802.11ax-HE20 MCS0	100	5500		Not required		11.00		Not required		11.00	Not required	14.00	Not required
		116	5580				11.00				14.00			
		124	5620				11.00				14.00			
		132	5660				11.00				14.00			
		144	5720				11.00				14.00			
	802.11ax-HE40 MCS0	102	5510				11.00				14.00			
		110	5550				11.00				14.00			
		126	5630				11.00				14.00			
		134	5670				11.00				14.00			
		142	5710				11.00				14.00			
	802.11ax-HE80 MCS0	106	5530				11.00				14.00			
		122	5610				11.00				14.00			
		138	5690				11.00				14.00			
802.11ax-HE160 MCS0	114	5570	11.00	14.00										
802.11be-EHT20 MCS0	100	5500	Not required	11.00		Not required	11.00	Not required		14.00	Not required			
	116	5580		11.00			14.00							
	124	5620		11.00			14.00							
	132	5660		11.00			14.00							
	144	5720		11.00			14.00							
802.11be-EHT40 MCS0	102	5510		11.00			14.00							
	110	5550		11.00			14.00							
	126	5630		11.00			14.00							
	134	5670		11.00			14.00							
	142	5710		11.00			14.00							
802.11be-EHT80 MCS0	106	5530		11.00			14.00							
	122	5610		11.00			14.00							
	138	5690		11.00			14.00							
802.11be-EHT160 MCS0	114	5570		11.00			14.00							



WLAN 5.5GHz Power index 5

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	19.50	Not required	19.50	Not required	22.50	91.94
		116	5580		19.50		22.50			
		124	5620		19.50		22.50			
		132	5660		19.50		22.50			
		144	5720		19.50		22.50			
	802.11n-HT20 MCS0	100	5500		19.50		22.50			
		116	5580		19.50		22.50			
		124	5620		19.50		22.50			
		132	5660		19.50		22.50			
	802.11n-HT40 MCS0	102	5510		16.50		19.50			
		110	5550		19.50		22.50			
		126	5630		19.50		22.50			
		134	5670		19.50		22.50			
	802.11ac-VHT20 MCS0	100	5500		19.50		22.50			
		116	5580		19.50		22.50			
		124	5620		19.50		22.50			
		132	5660		19.50		22.50			
	802.11ac-VHT40 MCS0	102	5510		16.50		19.50			
		110	5550		19.50		22.50			
		126	5630		19.50		22.50			
		134	5670		19.50		22.50			
	802.11ac-VHT80 MCS0	106	5530		16.75		17.00			
		122	5610		18.35		19.50			
		138	5690		18.25		19.50			
		106	5530		16.70		17.00			
	802.11ac-VHT160 MCS0	114	5570		16.50		16.50			
		100	5500		19.50		22.50			
		116	5580		19.50		22.50			
		124	5620		19.50		22.50			
	802.11ax-HE20 MCS0	132	5660		19.50		22.50			
		144	5720		19.50		22.50			
		102	5510		16.50		19.50			
		110	5550		19.50		22.50			
	802.11ax-HE40 MCS0	126	5630		19.50		22.50			
		134	5670		19.50		22.50			
		142	5710		19.50		22.50			
		106	5530		17.00		20.00			
	802.11ax-HE80 MCS0	122	5610		19.50		22.50			
		138	5690		19.50		22.50			
		114	5570		16.50		16.50			
	802.11ax-HE160 MCS0	100	5500		19.50		22.50			
		116	5580		19.50		22.50			
124		5620	19.50	22.50						
132		5660	19.50	22.50						
144		5720	19.50	22.50						
802.11be-EHT20 MCS0	102	5510	16.50	19.50						
	110	5550	19.50	22.50						
	126	5630	19.50	22.50						
	134	5670	19.50	22.50						
802.11be-EHT40 MCS0	142	5710	19.50	22.50						
	106	5530	17.00	20.00						
	122	5610	19.50	22.50						
	138	5690	19.50	22.50						
802.11be-EHT80 MCS0	114	5570	16.50	16.50						
	100	5500	19.50	22.50						
	116	5580	19.50	22.50						
802.11be-EHT160 MCS0	124	5620	19.50	22.50						
	132	5660	19.50	22.50						
	144	5720	19.50	22.50						
	114	5570	16.50	16.50						



WLAN 5.5GHz Power index 6/7/8/9

Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4			
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	Not required	18.50	Not required	18.50	Not required	21.50	Not required	
	116	5580		18.50		21.50				
	124	5620		18.50		21.50				
	132	5660		18.50		21.50				
	144	5720		18.50		21.50				
802.11n-HT20 MCS0	100	5500	Not required	18.50	Not required	18.50	Not required	21.50	Not required	
	116	5580		18.50		21.50				
	124	5620		18.50		21.50				
	132	5660		18.50		21.50				
802.11n-HT40 MCS0	102	5510	Not required	16.50	Not required	16.50	Not required	19.50	Not required	
	110	5550		18.50		21.50				
	126	5630		18.50		21.50				
	134	5670		18.50		21.50				
802.11ac-VHT20 MCS0	100	5500	Not required	18.50	Not required	18.50	Not required	21.50	Not required	
	116	5580		18.50		21.50				
	124	5620		18.50		21.50				
	132	5660		18.50		21.50				
802.11ac-VHT40 MCS0	102	5510	Not required	16.50	Not required	16.50	Not required	19.50	Not required	
	110	5550		18.50		21.50				
	126	5630		18.50		21.50				
	134	5670		18.50		21.50				
802.11ac-VHT80 MCS0	106	5530	Not required	16.75	Not required	16.70	Not required	19.74	91.94	
	122	5610		18.35		18.40		21.39		21.50
	138	5690		18.25		18.10		21.19		21.50
	802.11ac-VHT160 MCS0	114		5570		Not required		16.50		Not required
802.11ax-HE20 MCS0	100	5500	18.50	21.50						
	116	5580	18.50	21.50						
	124	5620	18.50	21.50						
	132	5660	18.50	21.50						
802.11ax-HE40 MCS0	102	5510	Not required	16.50	Not required	16.50	Not required	19.50	Not required	
	110	5550		18.50		21.50				
	126	5630		18.50		21.50				
	134	5670		18.50		21.50				
802.11ax-HE80 MCS0	106	5530	Not required	17.00	Not required	17.00	Not required	20.00	Not required	
	122	5610		18.50		21.50				
	138	5690		18.50		21.50				
	802.11ax-HE160 MCS0	114		5570		Not required		16.50		Not required
802.11be-EHT20 MCS0	100	5500	18.50	21.50						
	116	5580	18.50	21.50						
	124	5620	18.50	21.50						
	132	5660	18.50	21.50						
802.11be-EHT40 MCS0	102	5510	Not required	16.50	Not required	16.50	Not required	19.50	Not required	
	110	5550		18.50		21.50				
	126	5630		18.50		21.50				
	134	5670		18.50		21.50				
802.11be-EHT80 MCS0	106	5530	Not required	17.00	Not required	17.00	Not required	20.00	Not required	
	122	5610		18.50		21.50				
	138	5690		18.50		21.50				
	802.11be-EHT160 MCS0	114		5570		Not required		16.50		Not required

WLAN 5.8GHz Power index 1

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	15.50	Not required	15.50	Not required	18.50	Not required				
		157	5785		15.50		18.50							
		165	5825		15.50		18.50							
	802.11n-HT20 MCS0	149	5745		15.50		18.50							
		157	5785		15.50		18.50							
		165	5825		15.50		18.50							
	802.11n-HT40 MCS0	151	5755		14.65		15.50		14.20		15.50	17.44	18.50	96.79
		159	5795		14.65		15.50		14.10		15.50	17.39	18.50	
	802.11ac-VHT20 MCS0	149	5745		Not required		15.50		Not required		15.50	Not required	18.50	Not required
		157	5785	15.50		18.50								
		165	5825	15.50		18.50								
	802.11ac-VHT40 MCS0	151	5755	15.50		18.50								
		159	5795	15.50		18.50								
	802.11ac-VHT80 MCS0	155	5775	14.95		15.50	14.50	15.50		17.74	18.50		91.94	
	802.11ax-HE20 MCS0	149	5745	Not required		15.50	Not required	15.50		Not required	18.50		Not required	
		157	5785			15.50		18.50						
		165	5825			15.50		18.50						
	802.11ax-HE40 MCS0	151	5755		15.50	18.50								
159		5795	15.50		18.50									
802.11ax-HE80 MCS0	155	5775	15.50		18.50									
802.11be-EHT20 MCS0	149	5745	15.50		18.50									
	157	5785	15.50		18.50									
	165	5825	15.50		18.50									
802.11be-EHT40 MCS0	151	5755	15.50		18.50									
	159	5795	15.50		18.50									
802.11be-EHT80 MCS0	155	5775	15.50		18.50									

WLAN 5.8GHz Power index 2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	15.00	Not required	15.00	Not required	18.00	Not required				
		157	5785		15.00		18.00							
		165	5825		15.00		18.00							
	802.11n-HT20 MCS0	149	5745		15.00		18.00							
		157	5785		15.00		18.00							
		165	5825		15.00		18.00							
	802.11n-HT40 MCS0	151	5755		14.65		15.00		14.20		15.00	17.44	18.00	96.79
		159	5795		14.65		15.00		14.10		15.00	17.39	18.00	
	802.11ac-VHT20 MCS0	149	5745		Not required		15.00		Not required		15.00	Not required	18.00	Not required
		157	5785	15.00		18.00								
		165	5825	15.00		18.00								
	802.11ac-VHT40 MCS0	151	5755	15.00		18.00								
		159	5795	15.00		18.00								
	802.11ac-VHT80 MCS0	155	5775	14.95		15.00	14.50	15.00		17.74	18.00		91.94	
	802.11ax-HE20 MCS0	149	5745	Not required		15.00	Not required	15.00		Not required	18.00		Not required	
		157	5785			15.00		18.00						
		165	5825			15.00		18.00						
	802.11ax-HE40 MCS0	151	5755		15.00	18.00								
159		5795	15.00		18.00									
802.11ax-HE80 MCS0	155	5775	15.00		18.00									
802.11be-EHT20 MCS0	149	5745	15.00		18.00									
	157	5785	15.00		18.00									
	165	5825	15.00		18.00									
802.11be-EHT40 MCS0	151	5755	15.00		18.00									
	159	5795	15.00		18.00									
802.11be-EHT80 MCS0	155	5775	15.00		18.00									



WLAN 5.8GHz Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	11.00	Not required	11.00	Not required	14.00	Not required				
		157	5785		11.00		14.00							
		165	5825		11.00		14.00							
	802.11n-HT20 MCS0	149	5745		11.00		11.00		14.00					
		157	5785		11.00		11.00		14.00					
		165	5825		11.00		11.00		14.00					
	802.11n-HT40 MCS0	151	5755		11.00		11.00		14.00					
		159	5795		11.00		11.00		14.00					
	802.11ac-VHT20 MCS0	149	5745		11.00		11.00		14.00					
		157	5785		11.00		11.00		14.00					
		165	5825		11.00		11.00		14.00					
	802.11ac-VHT40 MCS0	151	5755		11.00		11.00		14.00					
		159	5795		11.00		11.00		14.00					
	802.11ac-VHT80 MCS0	155	5775		10.85		11.00		10.60		11.00	13.74	14.00	91.94
	802.11ax-HE20 MCS0	149	5745		Not required		11.00		Not required		11.00	Not required	14.00	Not required
		157	5785				11.00				14.00			
		165	5825				11.00				14.00			
	802.11ax-HE40 MCS0	151	5755				11.00				11.00		14.00	
		159	5795				11.00				11.00		14.00	
	802.11ax-HE80 MCS0	155	5775				11.00				11.00		14.00	
802.11be-EHT20 MCS0	149	5745	11.00	11.00		14.00								
	157	5785	11.00	11.00		14.00								
	165	5825	11.00	11.00		14.00								
802.11be-EHT40 MCS0	151	5755	11.00	11.00		14.00								
	159	5795	11.00	11.00		14.00								
802.11be-EHT80 MCS0	155	5775	11.00	11.00		14.00								



WLAN 5.8GHz Power index 5

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	20.00	Not required	20.00	Not required	23.00	Not required				
		157	5785		20.00		23.00							
		165	5825		20.00		23.00							
	802.11n-HT20 MCS0	149	5745		20.00		20.00							
		157	5785		20.00		20.00							
		165	5825		20.00		20.00							
	802.11n-HT40 MCS0	151	5755		20.00		20.00							
		159	5795		20.00		20.00							
	802.11ac-VHT20 MCS0	149	5745		20.00		20.00							
		157	5785		20.00		20.00							
		165	5825		20.00		20.00							
	802.11ac-VHT40 MCS0	151	5755		20.00		20.00							
		159	5795		20.00		20.00							
	802.11ac-VHT80 MCS0	155	5775		19.65		20.00		19.00		20.00	22.35	23.00	91.94
	802.11ax-HE20 MCS0	149	5745		Not required		20.00		Not required		20.00	Not required	23.00	Not required
		157	5785				20.00				23.00			
		165	5825				20.00				23.00			
	802.11ax-HE40 MCS0	151	5755				20.00				20.00			
		159	5795				20.00				20.00			
	802.11ax-HE80 MCS0	155	5775				20.00				20.00			
802.11be-EHT20 MCS0	149	5745	20.00	20.00										
	157	5785	20.00	20.00										
	165	5825	20.00	20.00										
802.11be-EHT40 MCS0	151	5755	20.00	20.00										
	159	5795	20.00	20.00										
802.11be-EHT80 MCS0	155	5775	20.00	20.00										



WLAN 5.8GHz Power index 6/7

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	18.00	Not required	18.00	Not required	21.00	Not required
		157	5785		18.00		18.00		21.00	
		165	5825		18.00		18.00		21.00	
	802.11n-HT20 MCS0	149	5745		18.00		18.00		21.00	
		157	5785		18.00		18.00		21.00	
		165	5825		18.00		18.00		21.00	
	802.11n-HT40 MCS0	151	5755		18.00		18.00		21.00	
		159	5795		18.00		18.00		21.00	
	802.11ac-VHT20 MCS0	149	5745		18.00		18.00		21.00	
		157	5785	18.00	18.00	21.00				
		165	5825	18.00	18.00	21.00				
	802.11ac-VHT40 MCS0	151	5755	18.00	18.00	21.00				
		159	5795	18.00	18.00	21.00				
	802.11ac-VHT80 MCS0	155	5775	17.90	18.00	17.70	18.00	20.81	21.00	87.80
	802.11ax-HE20 MCS0	149	5745	Not required	18.00	Not required	18.00	Not required	21.00	Not required
		157	5785		18.00		18.00		21.00	
		165	5825		18.00		18.00		21.00	
	802.11ax-HE40 MCS0	151	5755		18.00		18.00		21.00	
		159	5795		18.00		18.00		21.00	
	802.11ax-HE80 MCS0	155	5775		18.00		18.00		18.00	
802.11be-EHT20 MCS0	149	5745	18.00		18.00		18.00		21.00	
	157	5785	18.00		18.00		18.00		21.00	
	165	5825	18.00		18.00		18.00		21.00	
802.11be-EHT40 MCS0	151	5755	18.00	18.00	18.00	21.00				
	159	5795	18.00	18.00	18.00	21.00				
802.11be-EHT80 MCS0	155	5775	18.00	18.00	18.00	21.00				



WLAN 5.8GHz Power index 8/9

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	15.00	Not required	15.00	Not required	18.00	Not required				
		157	5785		15.00		18.00							
		165	5825		15.00		18.00							
	802.11n-HT20 MCS0	149	5745		15.00		15.00		18.00					
		157	5785		15.00		15.00		18.00					
		165	5825		15.00		15.00		18.00					
	802.11n-HT40 MCS0	151	5755		15.00		15.00		18.00					
		159	5795		15.00		15.00		18.00					
	802.11ac-VHT20 MCS0	149	5745		15.00		15.00		18.00					
		157	5785		15.00		15.00		18.00					
		165	5825		15.00		15.00		18.00					
	802.11ac-VHT40 MCS0	151	5755		15.00		15.00		18.00					
		159	5795		15.00		15.00		18.00					
	802.11ac-VHT80 MCS0	155	5775		14.95		15.00		14.50		15.00	17.74	18.00	87.80
	802.11ax-HE20 MCS0	149	5745		Not required		15.00		Not required		15.00	Not required	18.00	Not required
		157	5785				15.00				18.00			
		165	5825				15.00				18.00			
	802.11ax-HE40 MCS0	151	5755				15.00				15.00		18.00	
		159	5795				15.00				15.00		18.00	
	802.11ax-HE80 MCS0	155	5775				15.00				15.00		18.00	
802.11be-EHT20 MCS0	149	5745	15.00	15.00		18.00								
	157	5785	15.00	15.00		18.00								
	165	5825	15.00	15.00		18.00								
802.11be-EHT40 MCS0	151	5755	15.00	15.00		18.00								
	159	5795	15.00	15.00		18.00								
802.11be-EHT80 MCS0	155	5775	15.00	15.00		18.00								

WLAN 5.9GHz Power index 1/2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not required	16.50	Not required	16.50	Not required	19.50	Not required				
		173	5865		16.50		19.50							
		177	5885		16.50		19.50							
	802.11n-HT20 MCS0	169	5845		16.50		16.50		19.50					
		173	5865		16.50		16.50		19.50					
		177	5885		16.50		16.50		19.50					
	802.11n-HT40 MCS0	167	5835		16.50		16.50		19.50					
		175	5875		16.50		16.50		19.50					
	802.11ac-VHT20 MCS0	169	5845		16.50		16.50		19.50					
		173	5865		16.50		16.50		19.50					
		177	5885		16.50		16.50		19.50					
	802.11ac-VHT40 MCS0	167	5835		16.50		16.50		19.50					
		175	5875		16.50		16.50		19.50					
	802.11ac-VHT80 MCS0	171	5855		16.05		16.50		16.50		16.50	19.29	19.50	91.94
	802.11ac-VHT160 MCS0	163	5815		16.45		16.50		15.90		16.50	19.19	19.50	87.95
	802.11ax-HE20 MCS0	169	5845		Not required		16.50		Not required		16.50	Not required	19.50	Not required
		173	5865				16.50				19.50			
		177	5885				16.50				19.50			
	802.11ax-HE40 MCS0	167	5835				16.50				16.50		19.50	
		175	5875				16.50				16.50		19.50	
802.11ax-HE80 MCS0	171	5855	16.50	16.50		19.50								
802.11ax-HE160 MCS0	163	5815	16.50	16.50		19.50								
802.11be-EHT20 MCS0	169	5845	16.50	16.50		19.50								
	173	5865	16.50	16.50		19.50								
	177	5885	16.50	16.50		19.50								
802.11be-EHT40 MCS0	167	5835	16.50	16.50		19.50								
	175	5875	16.50	16.50		19.50								
802.11be-EHT80 MCS0	171	5855	16.50	16.50		19.50								
802.11be-EHT160 MCS0	163	5815	16.50	16.50		19.50								



WLAN5.9GHz Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4												
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %										
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not required	11.00	Not required	11.00	Not required	14.00	Not required										
		173	5865								14.00									
		177	5885								14.00									
	802.11n-HT20 MCS0	169	5845								11.00	11.00	14.00							
		173	5865								11.00	11.00	14.00							
		177	5885								11.00	11.00	14.00							
	802.11n-HT40 MCS0	167	5835								11.00	11.00	14.00							
		175	5875								11.00	11.00	14.00							
	802.11ac-VHT20 MCS0	169	5845								11.00	11.00	14.00							
		173	5865								11.00	11.00	14.00							
		177	5885								11.00	11.00	14.00							
	802.11ac-VHT40 MCS0	167	5835								11.00	11.00	14.00							
		175	5875								11.00	11.00	14.00							
	802.11ac-VHT80 MCS0	171	5855								11.00	11.00	14.00							
	802.11ac-VHT160 MCS0	163	5815								10.75	11.00	10.40	11.00	13.59	14.00	87.95			
	802.11ax-HE20 MCS0	169	5845								Not required	11.00	Not required	11.00	Not required	14.00	Not required			
		173	5865															14.00		
		177	5885															14.00		
	802.11ax-HE40 MCS0	167	5835															11.00	11.00	14.00
		175	5875															11.00	11.00	14.00
802.11ax-HE80 MCS0	171	5855	11.00	11.00	14.00															
802.11ax-HE160 MCS0	163	5815	11.00	11.00	14.00															
802.11be-EHT20 MCS0	169	5845	11.00	11.00	14.00															
	173	5865	11.00	11.00	14.00															
	177	5885	11.00	11.00	14.00															
802.11be-EHT40 MCS0	167	5835	11.00	11.00	14.00															
	175	5875	11.00	11.00	14.00															
802.11be-EHT80 MCS0	171	5855	11.00	11.00	14.00															
802.11be-EHT160 MCS0	163	5815	11.00	11.00	14.00															



WLAN 5.9GHz Power index 5

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4					
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %			
5.9GHz WLAN	802.11a 6Mbps	169	5845	20.25	20.50	19.90	20.50	23.09	23.50	93.42			
		173	5865	20.25	20.50	20.00	20.50	23.14	23.50				
		177	5885	20.45	20.50	20.10	20.50	23.29	23.50				
	802.11n-HT20 MCS0	169	5845	Not required	20.50	Not required	20.50	20.50	23.50	23.50			
		173	5865								20.50	20.50	23.50
		177	5885								20.50	20.50	23.50
	802.11n-HT40 MCS0	167	5835								20.00	20.00	23.00
		175	5875								20.00	20.00	23.00
	802.11ac-VHT20 MCS0	169	5845								20.50	20.50	23.50
		173	5865								20.50	20.50	23.50
		177	5885								20.50	20.50	23.50
	802.11ac-VHT40 MCS0	167	5835								20.00	20.00	23.00
		175	5875								20.00	20.00	23.00
	802.11ac-VHT80 MCS0	171	5855								20.00	20.00	23.00
		163	5815								19.00	19.00	22.00
	802.11ax-HE20 MCS0	169	5845								20.50	20.50	23.50
		173	5865								20.50	20.50	23.50
		177	5885								20.50	20.50	23.50
	802.11ax-HE40 MCS0	167	5835								20.00	20.00	23.00
		175	5875								20.00	20.00	23.00
	802.11ax-HE80 MCS0	171	5855								20.00	20.00	23.00
	802.11ax-HE160 MCS0	163	5815								19.00	19.00	22.00
	802.11be-EHT20 MCS0	169	5845								20.50	20.50	23.50
		173	5865								20.50	20.50	23.50
		177	5885								20.50	20.50	23.50
	802.11be-EHT40 MCS0	167	5835								20.00	20.00	23.00
		175	5875								20.00	20.00	23.00
	802.11be-EHT80 MCS0	171	5855								20.00	20.00	23.00
802.11be-EHT160 MCS0	163	5815	19.00								19.00	22.00	

WLAN 5.9GHz Power index 6

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %				
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not required	19.00	Not required	19.00	Not required	22.00	Not required				
		173	5865		19.00		22.00							
		177	5885		19.00		22.00							
	802.11n-HT20 MCS0	169	5845		19.00		19.00		22.00					
		173	5865		19.00		19.00		22.00					
		177	5885		19.00		19.00		22.00					
	802.11n-HT40 MCS0	167	5835		19.00		19.00		22.00					
		175	5875		19.00		19.00		22.00					
	802.11ac-VHT20 MCS0	169	5845		19.00		19.00		22.00					
		173	5865		19.00		19.00		22.00					
		177	5885		19.00		19.00		22.00					
	802.11ac-VHT40 MCS0	167	5835		19.00		19.00		22.00					
		175	5875		19.00		19.00		22.00					
	802.11ac-VHT80 MCS0	171	5855		19.00		19.00		22.00					
	802.11ac-VHT160 MCS0	163	5815		18.45		19.00		18.25		19.00	21.36	22.00	87.95
	802.11ax-HE20 MCS0	169	5845		Not required		19.00		Not required		19.00	Not required	22.00	Not required
		173	5865				19.00				22.00			
		177	5885				19.00				22.00			
	802.11ax-HE40 MCS0	167	5835				19.00				19.00		22.00	
		175	5875				19.00				19.00		22.00	
802.11ax-HE80 MCS0	171	5855	19.00	19.00		22.00								
802.11ax-HE160 MCS0	163	5815	19.00	19.00		22.00								
802.11be-EHT20 MCS0	169	5845	19.00	19.00		22.00								
	173	5865	19.00	19.00		22.00								
	177	5885	19.00	19.00		22.00								
802.11be-EHT40 MCS0	167	5835	19.00	19.00		22.00								
	175	5875	19.00	19.00		22.00								
802.11be-EHT80 MCS0	171	5855	19.00	19.00		22.00								
802.11be-EHT160 MCS0	163	5815	19.00	19.00		22.00								



WLAN 5.9GHz Power index 7/8/9

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4											
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %									
5.9GHz WLAN	802.11a 6Mbps	169	5845	Not required	18.50	Not required	18.50	Not required	21.50	Not required									
		173	5865								18.50	21.50							
		177	5885								18.50	21.50							
	802.11n-HT20 MCS0	169	5845								18.50	21.50							
		173	5865								18.50	21.50							
		177	5885								18.50	21.50							
	802.11n-HT40 MCS0	167	5835								18.50	21.50							
		175	5875								18.50	21.50							
	802.11ac-VHT20 MCS0	169	5845								18.50	21.50							
		173	5865								18.50	21.50							
		177	5885								18.50	21.50							
	802.11ac-VHT40 MCS0	167	5835								18.50	21.50							
		175	5875								18.50	21.50							
	802.11ac-VHT80 MCS0	171	5855								18.50	21.50							
	802.11ac-VHT160 MCS0	163	5815								18.45	18.50	18.25	18.50	21.36	21.50	87.95		
	802.11ax-HE20 MCS0	169	5845								Not required	18.50	Not required	18.50	Not required	21.50	Not required		
		173	5865															18.50	21.50
		177	5885															18.50	21.50
	802.11ax-HE40 MCS0	167	5835															18.50	21.50
		175	5875															18.50	21.50
802.11ax-HE80 MCS0	171	5855	18.50	21.50															
802.11ax-HE160 MCS0	163	5815	18.50	21.50															
802.11be-EHT20 MCS0	169	5845	18.50	21.50															
	173	5865	18.50	21.50															
	177	5885	18.50	21.50															
802.11be-EHT40 MCS0	167	5835	18.50	21.50															
	175	5875	18.50	21.50															
802.11be-EHT80 MCS0	171	5855	18.50	21.50															
802.11be-EHT160 MCS0	163	5815	18.50	21.50															



WLAN(6E) Power index 1/2

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4						
				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	9.00	Not required	12.00	Not required				
		57	6235		9.00		12.00							
		113	6515		9.00		12.00							
		173	6815		9.00		12.00							
		233	7115		9.00		12.00							
	802.11ax-HE20 MCS0	1	5955		9.00		9.00		12.00					
		57	6235		9.00		9.00		12.00					
		113	6515		9.00		9.00		12.00					
		173	6815		9.00		9.00		12.00					
		233	7115		9.00		9.00		12.00					
	802.11ax-HE40 MCS0	3	5965		12.50		12.50		15.50					
		59	6245		12.50		12.50		15.50					
		107	6485		11.50		11.50		14.50					
		171	6805		10.50		10.50		13.50					
		227	7085		9.00		9.00		12.00					
	802.11ax-HE80 MCS0	7	5985		12.50		12.50		15.50					
		71	6305		12.50		12.50		15.50					
		119	6545		11.50		11.50		14.50					
		167	6785		10.50		10.50		13.50					
		215	7025		9.00		9.00		12.00					
	802.11ax-HE160 MCS0	15	6025		12.40		12.50		15.36					
		47	6185		12.30		12.50		15.41					
		111	6505		11.20		11.50		14.36					
		143	6665		10.40		10.50		13.07					
		207	6985		8.60		9.00		11.76					
	802.11be-EHT20 MCS0	1	5955		Not required		9.00		Not required		9.00	Not required	12.00	Not required
		57	6235				9.00				12.00			
		113	6515				9.00				12.00			
		173	6815				9.00				12.00			
		233	7115				9.00				12.00			
	802.11be-EHT40 MCS0	3	5965				12.50				12.50		15.50	
		59	6245				12.50				12.50		15.50	
		107	6485				11.50				11.50		14.50	
		171	6805				10.50				10.50		13.50	
		227	7085				9.00				9.00		12.00	
	802.11be-EHT80 MCS0	7	5985				12.50				12.50		15.50	
		71	6305				12.50				12.50		15.50	
		119	6545				11.50				11.50		14.50	
		167	6785				10.50				10.50		13.50	
		215	7025				9.00				9.00		12.00	
802.11be-EHT160 MCS0	15	6025	12.50	12.50		15.50								
	47	6185	12.50	12.50		15.50								
	111	6505	11.50	11.50		14.50								
	143	6665	10.50	10.50		13.50								
	207	6985	9.00	9.00		12.00								



WLAN(6E) Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				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	9.00	Not required	12.00	86.30
		57	6235		9.00		12.00			
		113	6515		9.00		12.00			
		173	6815		9.00		12.00			
		233	7115		9.00		12.00			
	802.11ax-HE20 MCS0	1	5955		9.00		9.00		12.00	
		57	6235		9.00		9.00		12.00	
		113	6515		9.00		9.00		12.00	
		173	6815		9.00		9.00		12.00	
		233	7115		9.00		9.00		12.00	
	802.11ax-HE40 MCS0	3	5965		11.00		11.00		14.00	
		59	6245		11.00		11.00		14.00	
		107	6485		11.50		11.50		14.50	
		171	6805		10.50		10.50		13.50	
		227	7085		9.00		9.00		12.00	
	802.11ax-HE80 MCS0	7	5985		11.00		11.00		14.00	
		71	6305		11.00		11.00		14.00	
		119	6545		11.50		11.50		14.50	
		167	6785		10.50		10.50		13.50	
		215	7025		9.00		9.00		12.00	
	802.11ax-HE160 MCS0	15	6025		10.55		11.00		13.61	
		47	6185		10.40		11.00		13.72	
		111	6505		11.20		11.50		14.36	
		143	6665		10.40		10.50		13.07	
		207	6985		8.60		9.00		11.76	
	802.11be-EHT20 MCS0	1	5955		9.00		9.00		12.00	
		57	6235		9.00		9.00		12.00	
		113	6515		9.00		9.00		12.00	
		173	6815		9.00		9.00		12.00	
		233	7115		9.00		9.00		12.00	
	802.11be-EHT40 MCS0	3	5965		11.00		11.00		14.00	
		59	6245		11.00		11.00		14.00	
		107	6485		11.50		11.50		14.50	
		171	6805		10.50		10.50		13.50	
		227	7085		9.00		9.00		12.00	
	802.11be-EHT80 MCS0	7	5985		11.00		11.00		14.00	
		71	6305		11.00		11.00		14.00	
		119	6545		11.50		11.50		14.50	
		167	6785		10.50		10.50		13.50	
		215	7025		9.00		9.00		12.00	
802.11be-EHT160 MCS0	15	6025	11.00	11.00	14.00					
	47	6185	11.00	11.00	14.00					
	111	6505	11.50	11.50	14.50					
	143	6665	10.50	10.50	13.50					
	207	6985	9.00	9.00	12.00					



WLAN(6E) Power index 5/6/7/8/9

	Mode	Channel	Frequency (MHz)	Ant 3+4(3)		Ant 3+4(4)		Ant 3+4		
				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	9.00	Not required	12.00	Not required
		57	6235		9.00		12.00			
		113	6515		9.00		12.00			
		173	6815		9.00		12.00			
		233	7115		9.00		12.00			
	802.11ax-HE20 MCS0	1	5955		9.00		9.00		12.00	
		57	6235		9.00		9.00		12.00	
		113	6515		9.00		9.00		12.00	
		173	6815		9.00		9.00		12.00	
		233	7115		9.00		9.00		12.00	
	802.11ax-HE40 MCS0	3	5965		12.50		12.50		15.50	
		59	6245		12.50		12.50		15.50	
		107	6485		12.50		12.50		15.50	
		171	6805		12.50		12.50		15.50	
		227	7085		12.50		12.50		15.50	
	802.11ax-HE80 MCS0	7	5985		13.00		13.00		16.00	
		71	6305		13.00		13.00		16.00	
		119	6545		15.00		15.00		18.00	
		167	6785		14.00		14.00		17.00	
		215	7025		13.50		13.50		16.50	
	802.11ax-HE160 MCS0	15	6025		12.65		13.00		15.71	
		47	6185		12.40		13.00		15.72	
		111	6505		14.95		15.00		17.91	
		143	6665		13.00		13.00		15.58	
		207	6985		13.25		13.50		16.06	
	802.11be-EHT20 MCS0	1	5955		9.00		9.00		12.00	
		57	6235		9.00		9.00		12.00	
		113	6515		9.00		9.00		12.00	
		173	6815		9.00		9.00		12.00	
		233	7115		9.00		9.00		12.00	
	802.11be-EHT40 MCS0	3	5965		12.50		12.50		15.50	
		59	6245		12.50		12.50		15.50	
		107	6485		12.50		12.50		15.50	
		171	6805		12.50		12.50		15.50	
		227	7085		12.50		12.50		15.50	
	802.11be-EHT80 MCS0	7	5985		13.00		13.00		16.00	
		71	6305		13.00		13.00		16.00	
		119	6545		15.00		15.00		18.00	
		167	6785		14.00		14.00		17.00	
		215	7025		13.50		13.50		16.50	
802.11be-EHT160 MCS0	15	6025	13.00	13.00	16.00					
	47	6185	13.00	13.00	16.00					
	111	6505	15.00	15.00	18.00					
	143	6665	14.00	14.00	17.00					
	207	6985	13.50	13.50	16.50					



Bluetooth Power index 1

	Mode	Channel	Frequency (MHz)	Ant 3			Ant 4			Ant 3+4(3)		Ant 3+4(4)		Ant 3+4											
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	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 %									
Bluetooth	BR / EDR 1Mbps	0	2402	8.70	9.00	76.86	8.40	9.00	76.86	7.49	9.00	8.51	9.00	11.04	12.00	77.07									
		39	2441	8.40	9.00		9.00	9.00		8.44	9.00	8.86	9.00	11.67	12.00										
		78	2480	8.60	9.00		8.50	9.00		8.67	9.00	7.69	9.00	11.22	12.00										
	BR / EDR 2Mbps	0	2402	Not required	9.00	Not required	9.00	Not required	9.00	Not required	9.00	Not required	9.00	Not required	9.00	Not required	12.00								
		39	2441		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	12.00						
		78	2480		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	12.00						
	BR / EDR 3Mbps	0	2402		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00	
		39	2441		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00	
		78	2480		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00	
	LE 1Mbps	0	2402		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		19	2440		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		39	2480		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
	LE 2Mbps	0	2402		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		19	2440		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		39	2480		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
	HR 2Mbps	0	2402		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		39	2441		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		78	2480		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
	HR 4Mbps	2	2404		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		39	2441		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		76	2478		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
	HR 8Mbps	2	2404		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		39	2441		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00
		76	2478		9.00		9.00		9.00		9.00		9.00		9.00		9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	12.00



Bluetooth Power index 2

	Mode	Channel	Frequency (MHz)	Ant 3			Ant 4			Ant 3+4(3)		Ant 3+4(4)		Ant 3+4				
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	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 %		
Bluetooth	BR / EDR 1Mbps	0	2402	19.40	19.50	76.86	18.90	19.50	76.86	17.79	18.00	17.17	18.00	20.50	21.00	77.07		
		39	2441	19.30	19.50		19.00	19.50		17.71	18.00	17.20	18.00	20.47	21			
		78	2480	19.50	19.50		19.40	19.50		17.74	18.00	17.82	18.00	20.79	21			
	BR / EDR 2Mbps	0	2402	Not required	19.50	Not required	Not required	19.00	19.00	Not required	18.00	18.00	15.00	15.00	18.00	21.00		
		39	2441					19.00					15.00				18.00	
		78	2480					19.00					15.00				18.00	
	BR / EDR 3Mbps	0	2402					18.00					18.00				15.00	18.00
		39	2441					18.00					18.00				15.00	18.00
		78	2480					18.00					18.00				15.00	18.00
	LE 1Mbps	0	2402					19.50					19.50				18.00	18.00
		19	2440					19.50					19.50				18.00	18.00
		39	2480					19.50					19.50				18.00	18.00
	LE 2Mbps	0	2402					19.50					19.50				18.00	18.00
		19	2440					19.50					19.50				18.00	18.00
		39	2480					19.50					19.50				18.00	18.00
	HR 2Mbps	0	2402					19.00					19.00				15.00	15.00
		39	2441					19.00					19.00				15.00	15.00
		78	2480					19.00					19.00				15.00	15.00
	HR 4Mbps	2	2404					18.00					18.00				18.00	18.00
		39	2441					18.00					18.00				18.00	18.00
		76	2478					18.00					18.00				18.00	18.00
	HR 8Mbps	2	2404					18.00					18.00				17.50	17.50
		39	2441					18.00					18.00				17.50	17.50
		76	2478					18.00					18.00				13.50	13.50

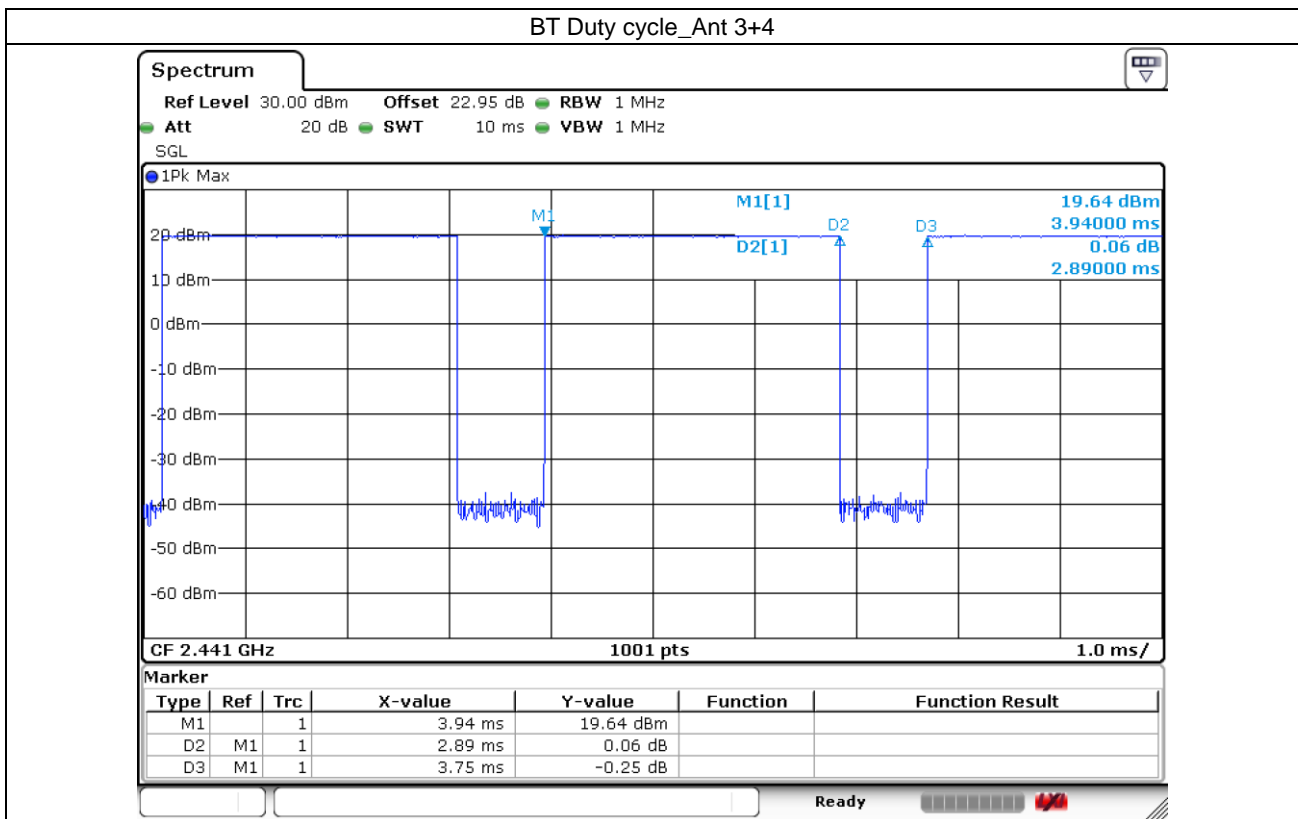
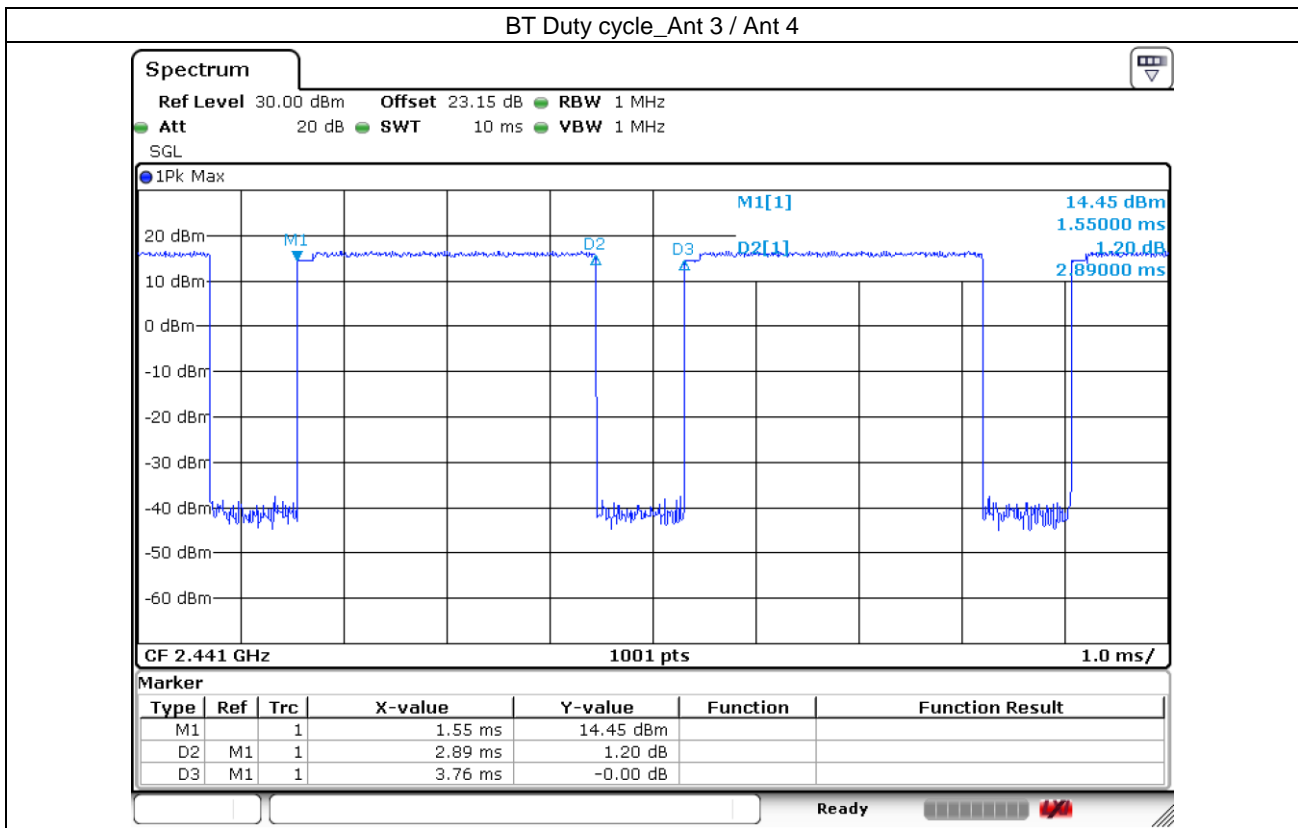


Bluetooth Power index 3/4

	Mode	Channel	Frequency (MHz)	Ant 3			Ant 4			Ant 3+4(3)		Ant 3+4(4)		Ant 3+4			
				Average power (dBm)	Tune-Up Limit	Duty Cycle %	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 %	
Bluetooth	BR / EDR 1Mbps	0	2402	14.88	15.00	76.86	15.00	15.00	76.86	14.64	15.00	14.55	15.00	17.61	18.00	77.07	
		39	2441	14.50	15.00		14.76	15.00		14.50	15.00	14.79	15.00	17.66	18.00		
		78	2480	14.70	15.00		14.50	15.00		14.54	15.00	14.20	15.00	17.38	18.00		
	BR / EDR 2Mbps	0	2402	Not required	15.00	Not required	15.00	15.00	Not required	15.00	Not required	15.00	15.00	18.00	Not required		
		39	2441		15.00		15.00	15.00		15.00		18.00					
		78	2480		15.00		15.00	15.00		15.00		18.00					
	BR / EDR 3Mbps	0	2402		15.00		15.00	15.00		15.00		18.00					
		39	2441		15.00		15.00	15.00		15.00		18.00					
		78	2480		15.00		15.00	15.00		15.00		18.00					
	LE 1Mbps	0	2402		15.00		15.00	15.00		15.00		18.00					
		19	2440		15.00		15.00	15.00		15.00		18.00					
		39	2480		15.00		15.00	15.00		15.00		18.00					
	LE 2Mbps	0	2402		15.00		15.00	15.00		15.00		18.00					
		19	2440		15.00		15.00	15.00		15.00		18.00					
		39	2480		15.00		15.00	15.00		15.00		18.00					
	HR 2Mbps	0	2402		15.00		15.00	15.00		15.00		18.00					
		39	2441		15.00		15.00	15.00		15.00		18.00					
		78	2480		15.00		15.00	15.00		15.00		18.00					
	HR 4Mbps	2	2404		15.00		15.00	15.00		15.00		18.00					
		39	2441		15.00		15.00	15.00		15.00		18.00					
		76	2478		15.00		15.00	15.00		15.00		18.00					
	HR 8Mbps	2	2404		15.00		15.00	15.00		15.00		18.00					
		39	2441		15.00		15.00	15.00		15.00		18.00					
			76		2478		15.00	15.00		15.00		15.00	13.50	15.00		13.50	15.00

General Note:

- For 2.4GHz Ant 3 / Ant 4 Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.86% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.
- For 2.4GHz Ant 3+4 Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.07% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.





13. Spot Check SAR Results

General Note:

1. SAR spot check verification on the worst cases from the original model was performed to demonstrate the test data from original model remains representative for the variant model.
2. If the 1-g SAR spot check result “does not exceed 30%, but larger than 1.2 W/kg”, more spot check on the next-higher exposure position until the spot check result does not exceed 1.2 W/kg.
3. The spot check results don’t show the SAR increase more than 30%, therefore referring to the guidance in the KDB inquiry, SAR data reuse is justified.

1st as parent model

2nd as variant model

13.1 Head SAR Results

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2	128	824.2	27.06	28.70	1.459	0.04	0.452	0.659	-7.0%
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2	128	824.2	26.86	28.70	1.528	-0.08	0.401	0.613	
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	128	824.2	27.06	28.00	1.242	0.04	0.452	0.561	-7.1%
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	128	824.2	26.86	28.00	1.300	-0.08	0.401	0.521	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	23.74	24.90	1.306	0.01	0.721	0.942	-0.7%
01	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	23.56	24.90	1.361	-0.01	0.687	0.935	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	251	848.8	23.74	24.20	1.112	0.01	0.721	0.802	-0.7%
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	251	848.8	23.56	24.20	1.159	-0.01	0.687	0.796	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	810	1909.8	26.96	28.00	1.271	-0.12	0.526	0.668	-5.7%
02	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	810	1909.8	27.11	28.00	1.227	-0.18	0.513	0.630	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	810	1909.8	25.85	27.20	1.365	0.05	0.083	0.113	-22.1%
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	810	1909.8	25.70	27.20	1.413	-0.01	0.062	0.088	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2	9538	1907.6	24.35	25.10	1.189	-0.01	0.780	0.927	-1.2%
03	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2	9538	1907.6	24.00	25.10	1.288	0	0.711	0.916	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	3	9538	1907.6	24.35	24.40	1.012	-0.01	0.780	0.789	-1.1%
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	3	9538	1907.6	24.00	24.40	1.096	0	0.711	0.780	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	9262	1852.4	24.34	25.30	1.247	0.05	0.140	0.175	-14.3%
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	9262	1852.4	23.92	25.30	1.374	0.06	0.109	0.150	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	1513	1752.6	24.81	25.50	1.172	-0.14	0.619	0.726	-5.0%
04	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	1513	1752.6	24.73	25.50	1.194	-0.09	0.578	0.690	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	1312	1712.4	24.41	25.30	1.227	0.05	0.175	0.215	-14.0%
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	1312	1712.4	24.21	25.30	1.285	0.01	0.144	0.185	
	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	4233	846.6	24.90	25.50	1.148	-0.06	0.474	0.544	-1.7%
	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	4233	846.6	24.72	25.50	1.197	-0.05	0.447	0.535	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4132	826.4	20.66	22.40	1.493	-0.02	0.450	0.672	-15.0%
05	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4132	826.4	20.46	22.40	1.563	-0.02	0.365	0.571	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4132	826.4	20.66	21.70	1.271	-0.02	0.450	0.572	-15.0%
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4132	826.4	20.46	21.70	1.330	-0.02	0.365	0.486	



Table with columns: Plot No., No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Power Index, 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), Deviation (%). Rows include test data for various LTE bands and antenna configurations.



FCC SAR TEST REPORT

Report No. : FA2D0208-07D

Line	Order	Antenna	Power	Modulation	Channels	Frequency	Position	Distance	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power	Power
	1st	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	22.75	23.30	1.135	62.9	1.006	-0.19	0.690	0.788				
	2nd	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	22.65	23.30	1.161	62.9	1.006	-0.18	0.600	0.701				-11.0%
	1st	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	24.28	24.90	1.153	42.9	1.009	0	0.605	0.704				
	2nd	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	24.09	24.90	1.205	42.9	1.009	0	0.479	0.582				-17.3%
	1st	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	41490	2680	22.10	23.70	1.445	62.9	1.006	0.03	0.116	0.169				
	2nd	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	41490	2680	22.02	23.70	1.472	62.9	1.006	0.17	0.096	0.142				-16.0%
	1st	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	41490	2680	24.85	26.50	1.462	42.9	1.009	0.19	0.145	0.214				
	2nd	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	41490	2680	24.66	26.50	1.528	42.9	1.009	0.1	0.117	0.180				-15.9%
	1st	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	2/3	55340	3560	21.51	22.50	1.256	62.9	1.006	0.19	0.479	0.605				
15	2nd	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	2/3	55340	3560	21.21	22.50	1.346	62.9	1.006	-0.01	0.375	0.508				-16%
	1st	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	2/3	56640	3690	22.55	24.00	1.396	62.9	1.006	0.08	0.154	0.216				
	2nd	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	2/3	56640	3690	22.05	24.00	1.567	62.9	1.006	-0.11	0.102	0.161				-25%
	1st	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	132572	1770	24.62	25.50	1.225				-0.07	0.668	0.818			
	2nd	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	132572	1770	24.65	25.50	1.216				0.08	0.643	0.782			
	1st	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	132572	1770	24.62	25.30	1.169				-0.07	0.668	0.781			
	2nd	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	132572	1770	24.65	25.30	1.161				0.08	0.643	0.747			
	1st	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	24.42	25.30	1.225				-0.07	0.163	0.200			
	2nd	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	24.33	25.30	1.250				0.16	0.153	0.191			
	1st	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	132572	1770	18.29	19.20	1.233				-0.01	0.803	0.990			
16	2nd	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	132572	1770	18.15	19.20	1.274				-0.03	0.769	0.979			
	1st	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	132572	1770	18.29	18.50	1.050				-0.01	0.803	0.843			
	2nd	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	132572	1770	18.15	18.50	1.084				-0.03	0.769	0.834			
	1st	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	132572	1770	18.73	19.90	1.309				0.02	0.466	0.610			
	2nd	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	132572	1770	18.77	19.90	1.297				-0.03	0.455	0.590			
	1st	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	3	132572	1770	18.73	19.20	1.114				0.02	0.466	0.519			
	2nd	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	3	132572	1770	18.77	19.20	1.104				-0.03	0.455	0.502			
	1st	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	133297	680.5	24.71	25.50	1.199				0.1	0.274	0.329			
	2nd	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	133297	680.5	24.88	25.50	1.153				-0.09	0.266	0.307			
	1st	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	133297	680.5	22.64	24.20	1.432				0	0.687	0.984			
17	2nd	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	133297	680.5	22.54	24.20	1.466				-0.01	0.593	0.869			
	1st	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	133297	680.5	22.64	23.50	1.219				0	0.687	0.837			
	2nd	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	133297	680.5	22.54	23.50	1.247				-0.01	0.593	0.740			
	1st	FR1 n2_Ant 1	20M	BPSK	1	53	Right Tilted	0mm	2	380000	1900	16.59	17.70	1.291				-0.02	0.744	0.961			
18	2nd	FR1 n2_Ant 1	20M	BPSK	1	53	Right Tilted	0mm	2	380000	1900	16.39	17.70	1.352				-0.05	0.687	0.929			
	1st	FR1 n2_Ant 1	20M	BPSK	1	53	Right Tilted	0mm	3	380000	1900	16.59	17.00	1.099				-0.02	0.744	0.818			
	2nd	FR1 n2_Ant 1	20M	BPSK	1	53	Right Tilted	0mm	3	380000	1900	16.39	17.00	1.151				-0.05	0.687	0.791			
	1st	FR1 n2_Ant 5	20M	BPSK	50	0	Left Cheek	0mm	2	380000	1900	15.82	17.30	1.406				-0.1	0.440	0.619			
	2nd	FR1 n2_Ant 5	20M	BPSK	50	0	Left Cheek	0mm	2	380000	1900	15.42	17.30	1.542				-0.15	0.355	0.547			
	1st	FR1 n2_Ant 5	20M	BPSK	50	0	Left Cheek	0mm	3	380000	1900	15.82	16.60	1.197				-0.1	0.440	0.527			
	2nd	FR1 n2_Ant 5	20M	BPSK	50	0	Left Cheek	0mm	3	380000	1900	15.42	16.60	1.312				-0.15	0.355	0.466			
	1st	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	2	507000	2535	21.30	22.80	1.413				-0.09	0.649	0.917			
19	2nd	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	2	507000	2535	21.11	22.80	1.476				-0.1	0.575	0.849			
	1st	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	3	507000	2535	21.30	22.10	1.202				-0.09	0.649	0.780			
	2nd	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	3	507000	2535	21.11	22.10	1.256				-0.1	0.575	0.722			
	1st	FR1 n7_Ant 0	50M	BPSK	1	1	Right Cheek	0mm	2/3	507000	2535	23.82	25.00	1.312				-0.03	0.211	0.277			
	2nd	FR1 n7_Ant 0	50M	BPSK	1	1	Right Cheek	0mm	2/3	507000	2535	23.56	25.00	1.393				0.01	0.156	0.217			
	1st	FR1 n12_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	141500	707.5	24.66	25.50	1.213				0.01	0.312	0.379			
	2nd	FR1 n12_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	141500	707.5	24.61	25.50	1.227				-0.04	0.284	0.349			
	1st	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	2	141500	707.5	21.67	23.40	1.489				0.04	0.622	0.926			
20	2nd	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	2	141500	707.5	21.72	23.40	1.472				0	0.586	0.863			
	1st	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	3	141500	707.5	21.67	22.70	1.268				0.04	0.622	0.788			
	2nd	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	3	141500	707.5	21.72	22.70	1.253				0	0.586	0.734			
	1st	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	23.42	24.70	1.343				0.12	0.603	0.810			
21	2nd	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	23.33	24.70	1.371				-0.13	0.545	0.747			
	1st	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	23.42	24.00	1.143				0.12	0.603	0.689			
	2nd	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	23.33	24.00	1.167				-0.13	0.545	0.636			



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1st	FR1 n25_Ant 0	40M	BPSK	1	108	Left Cheek	0mm	2/3	376500	1882.5	24.58	25.30	1.180			0.07	0.115	0.136		
2nd	FR1 n25_Ant 0	40M	BPSK	1	108	Left Cheek	0mm	2/3	376500	1882.5	24.32	25.30	1.253			0.14	0.082	0.103	-24.3%	
1st	FR1 n26_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	2/3	166300	831.5	24.60	25.50	1.230			-0.13	0.437	0.538		
2nd	FR1 n26_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	2/3	166300	831.5	24.72	25.50	1.197			-0.04	0.430	0.515	-4.3%	
1st	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	166300	831.5	20.43	21.30	1.222			0.03	0.637	0.778		
22	2nd	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	166300	831.5	20.23	21.30	1.279			0.04	0.555	0.710	-8.7%
1st	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	166300	831.5	20.43	20.60	1.040			0.03	0.637	0.662		
2nd	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	166300	831.5	20.23	20.60	1.089			0.04	0.555	0.604	-8.8%	
1st	FR1 n30_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	2/3	462000	2310	21.51	22.50	1.256			-0.06	0.539	0.677		
23	2nd	FR1 n30_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	2/3	462000	2310	21.21	22.50	1.346			-0.09	0.475	0.639	-5.6%
1st	FR1 n30_Ant 0	10M	BPSK	1	26	Left Cheek	0mm	2/3	462000	2310	20.03	20.80	1.194			0.02	0.132	0.158		
2nd	FR1 n30_Ant 0	10M	BPSK	1	26	Left Cheek	0mm	2/3	462000	2310	19.43	20.80	1.371			0.02	0.093	0.127	-19.6%	
1st	FR1 n38_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	2/3	519000	2595	23.56	25.00	1.393			-0.08	0.245	0.341		
24	2nd	FR1 n38_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	2/3	519000	2595	23.26	25.00	1.493			-0.02	0.183	0.273	-19.9%
1st	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	2	518598	2592.99	20.96	22.40	1.393			-0.1	0.583	0.812		
2nd	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	2	518598	2592.99	20.86	22.40	1.426			-0.07	0.468	0.667	-17.9%	
1st	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	24.25	25.40	1.303			-0.06	0.611	0.796		
2nd	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	24.05	25.40	1.365			-0.02	0.448	0.611	-23.2%	
1st	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	3	518598	2592.99	20.96	21.70	1.186			-0.1	0.583	0.691		
2nd	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	3	518598	2592.99	20.86	21.70	1.213			-0.07	0.468	0.568	-17.8%	
1st	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	24.25	24.70	1.109			-0.06	0.611	0.678		
2nd	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	24.05	24.70	1.161			-0.02	0.448	0.520	-23.3%	
1st	FR1 n41_Ant 0	100M	BPSK	1	1	Right Cheek	0mm	2/3	518598	2592.99	22.17	23.70	1.422			-0.05	0.220	0.313		
2nd	FR1 n41_Ant 0	100M	BPSK	1	1	Right Cheek	0mm	2/3	518598	2592.99	21.97	23.70	1.489			-0.01	0.155	0.231	-26.2%	
1st	FR1 n41_HPUE_Ant 0	100M	BPSK	1	271	Right Cheek	0mm	2/3	518598	2592.99	25.24	26.50	1.337			0.03	0.213	0.285		
2nd	FR1 n41_HPUE_Ant 0	100M	BPSK	1	271	Right Cheek	0mm	2/3	518598	2592.99	24.84	26.50	1.466			-0.14	0.152	0.223	-21.8%	
1st	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	13.34	14.4	1.276			0.18	0.662	0.845		
25	2nd	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	13.56	14.4	1.213			0.03	0.659	0.800	-5.3%
1st	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	16.47	17.4	1.239			0.08	0.658	0.815		
2nd	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	16.67	17.4	1.183			0.02	0.614	0.726	-10.9%	
1st	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	13.34	13.7	1.086			0.18	0.662	0.719		
2nd	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	13.56	13.7	1.033			0.03	0.659	0.681	-5.3%	
1st	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	16.47	16.7	1.054			0.08	0.658	0.694		
2nd	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	16.67	16.7	1.007			0.02	0.614	0.618	-11.0%	
1st	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	16.49	17.40	1.233			-0.1	0.496	0.612		
2nd	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	16.35	17.40	1.274			0.04	0.434	0.553	-9.6%	
1st	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	19.49	20.50	1.262			-0.06	0.446	0.563		
2nd	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	19.36	20.50	1.300			0.08	0.379	0.493	-12.4%	
1st	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	16.49	16.70	1.050			-0.1	0.496	0.521		
2nd	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	16.35	16.70	1.084			0.04	0.434	0.470	-9.8%	
1st	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	19.49	19.80	1.074			-0.06	0.446	0.479		
2nd	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	19.36	19.80	1.107			0.08	0.379	0.419	-12.5%	
1st	FR1 n48_Ant 6	40M	BPSK	1	0	Left Cheek	0mm	2/3	641666	3624.99	21.44	22.50	1.276			0.1	0.391	0.499		
2nd	FR1 n48_Ant 6	40M	BPSK	1	0	Left Cheek	0mm	2/3	641666	3624.99	21.32	22.50	1.312			-0.06	0.325	0.426	-15%	
1st	FR1 n48_Ant 7	40M	BPSK	1	0	Right Cheek	0mm	2/3	641666	3624.99	22.33	24.00	1.469			0.09	0.089	0.131		
2nd	FR1 n48_Ant 7	40M	BPSK	1	0	Right Cheek	0mm	2/3	641666	3624.99	22.43	24.00	1.435			0.12	0.084	0.121	-8%	
1st	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	646000	3690	20.27	21.70	1.390			-0.03	0.709	0.985		
26	2nd	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	646000	3690	20.24	21.70	1.400			-0.03	0.615	0.861	-13%
1st	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	646000	3690	20.27	21.00	1.183			-0.03	0.709	0.839		
2nd	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	646000	3690	20.24	21.00	1.191			-0.03	0.615	0.733	-13%	
1st	FR1 n48_Ant 5	20M	BPSK	1	0	Left Cheek	0mm	2	646000	3624.99	14.48	15.90	1.387			-0.06	0.442	0.613		
2nd	FR1 n48_Ant 5	20M	BPSK	1	0	Left Cheek	0mm	2	646000	3624.99	15.05	15.90	1.216			-0.03	0.412	0.501	-18%	
1st	FR1 n48_Ant 5	20M	BPSK	1	0	Left Cheek	0mm	3	646000	3690	14.48	15.20	1.180			-0.06	0.442	0.522		
2nd	FR1 n48_Ant 5	20M	BPSK	1	0	Left Cheek	0mm	3	646000	3690	15.05	15.20	1.035			-0.03	0.412	0.426	-18%	
1st	FR1 n66_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.59	25.50	1.233			-0.14	0.572	0.705		
2nd	FR1 n66_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.46	25.50	1.271			0.08	0.489	0.621	-11.9%	



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Table with columns for antenna details (1st/2nd, FR1 n66/n70/n71, Ant 0/1/5/6/7), power (40M/15M/20M/100M), modulation (BPSK), polarization (Right/Left Cheek, Tilted), distance (0mm), frequency (349000, 340500, 3499.98, 656000), power density (W/m2), and SAR values (0.175, 0.197, etc.) and a final SAR percentage column.



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Plot No.	Antenna	Power	Modulation	Channels	Position	Gap	Power Index	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling Factor	Power Drift	Measured 1g SAR	Reported 1g SAR	Deviation (%)	
1st	FR1 n77_Ant 1	100M	BPSK	1	Right Cheek	0mm	3	633332	3499.98	21.08	21.1	1.005		0.01	0.640	0.643	-17%
2nd	FR1 n77_Ant 1	100M	BPSK	1	Right Cheek	0mm	3	633332	3499.98	21.02	21.1	1.019		0.14	0.521	0.531	-17%
1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	Right Cheek	0mm	3	633332	3499.98	24.03	24.3	1.064		-0.03	0.654	0.696	-14%
2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	Right Cheek	0mm	3	633332	3499.98	23.98	24.3	1.076		0.08	0.555	0.597	-14%
1st	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	656000	3840	14.29	15.10	1.205		0.07	0.513	0.618	-9%
2nd	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	656000	3840	14.20	15.10	1.230		-0.06	0.456	0.561	-9%
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	656000	3840	17.26	18.10	1.213		-0.05	0.500	0.607	-5%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	656000	3840	17.25	18.10	1.216		0.15	0.473	0.575	-5%
1st	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	656000	3840	14.29	14.40	1.026		0.07	0.513	0.526	-9%
2nd	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	656000	3840	14.20	14.40	1.047		-0.06	0.456	0.477	-9%
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	656000	3840	17.26	17.40	1.033		-0.05	0.500	0.516	-5%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	656000	3840	17.25	17.40	1.035		0.15	0.473	0.490	-5%
1st	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	633332	3499.98	14.29	15.10	1.205		0.01	0.307	0.370	-4%
2nd	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	633332	3499.98	14.22	15.10	1.225		0	0.290	0.355	-4%
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	633332	3499.98	17.29	18.10	1.205		-0.03	0.327	0.394	0%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	2	633332	3499.98	17.24	18.10	1.219		-0.05	0.322	0.393	0%
1st	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	633332	3499.98	14.29	14.40	1.026		0.01	0.307	0.315	-4%
2nd	FR1 n77_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	633332	3499.98	14.22	14.40	1.042		0	0.290	0.302	-4%
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	633332	3499.98	17.29	17.40	1.026		-0.03	0.327	0.335	0%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	Left Cheek	0mm	3	633332	3499.98	17.24	17.40	1.038		-0.05	0.322	0.334	0%

13.2 Hotspot SAR

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	189	836.4	27.11	27.70	1.146	0.03	0.672	0.770	-7.1%
31	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	189	836.4	27.05	27.70	1.161	0.02	0.616	0.715	-7.1%
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.46	30.00	1.426	0.06	0.418	0.596	-20.6%
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.40	30.00	1.445	-0.04	0.327	0.473	-20.6%
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	4	512	1850.2	23.34	24.10	1.191	-0.01	0.505	0.602	-12.0%
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	4	512	1850.2	23.29	24.10	1.205	0.01	0.440	0.530	-12.0%
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	810	1909.8	19.72	20.50	1.197	0.06	0.632	0.756	-0.7%
32	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	810	1909.8	19.70	20.50	1.202	0.06	0.625	0.751	-0.7%
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	9538	1907.6	20.69	21.30	1.151	-0.04	0.495	0.570	-3.7%
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	9538	1907.6	20.65	21.30	1.161	-0.01	0.473	0.549	-3.7%
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	9400	1880	18.40	18.40	1.000	0	0.788	0.788	-1.8%
33	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	9400	1880	18.35	18.40	1.012	0.02	0.765	0.774	-1.8%
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	1513	1752.6	20.71	21.20	1.119	-0.04	0.469	0.525	-11.4%
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	1513	1752.6	20.66	21.20	1.132	-0.03	0.411	0.465	-11.4%
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	1312	1712.4	18.79	19.30	1.125	0	0.727	0.818	-10.3%
34	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	1312	1712.4	18.70	19.30	1.148	-0.01	0.639	0.734	-10.3%
	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.52	25.20	1.169	0.03	0.651	0.761	-15.4%
35	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.50	25.20	1.175	0.03	0.548	0.644	-15.4%
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.62	25.10	1.117	-0.01	0.355	0.396	-26.8%
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.58	25.10	1.127	0.01	0.257	0.290	-26.8%



Plot No.	No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	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)	Deviation (%)
	1st	LTE Band 2_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	19100	1900	20.99	21.20	1.050			-0.03	0.751	0.788	
36	2nd	LTE Band 2_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	19100	1900	20.97	21.20	1.054			-0.13	0.699	0.737	-6.5%
	1st	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	19100	1900	21.03	21.20	1.040			0.02	0.571	0.594	
	2nd	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	19100	1900	21.00	21.20	1.047			-0.03	0.561	0.587	-1.2%
	1st	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	20850	2510	19.37	19.70	1.079			0.01	0.704	0.760	
	2nd	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	20850	2510	19.30	19.70	1.096			0	0.662	0.726	-4.5%
	1st	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	20850	2510	17.23	18.40	1.309			-0.01	0.627	0.821	
37	2nd	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	20850	2510	17.20	18.40	1.318			-0.03	0.587	0.774	-5.7%
	1st	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	23095	707.5	24.37	25.50	1.297			0.01	0.418	0.542	
38	2nd	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	23095	707.5	24.33	25.50	1.309			0	0.379	0.496	-8.5%
	1st	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	4	23095	707.5	24.32	25.10	1.197			-0.02	0.212	0.254	
	2nd	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	4	23095	707.5	24.25	25.10	1.216			-0.11	0.203	0.247	-2.8%
	1st	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23230	782	24.65	24.70	1.012			0	0.696	0.704	
39	2nd	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23230	782	24.67	24.70	1.007			0	0.694	0.699	-0.7%
	1st	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	4	23230	782	24.59	25.10	1.125			-0.1	0.330	0.371	
	2nd	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	4	23230	782	24.55	25.10	1.135			-0.12	0.312	0.354	-4.6%
	1st	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23330	793	24.27	24.30	1.007			-0.02	0.631	0.635	
40	2nd	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23330	793	24.26	24.30	1.009			0.01	0.624	0.630	-0.8%
	1st	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	4	23330	793	24.92	25.10	1.042			-0.01	0.373	0.389	
	2nd	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	4	23330	793	24.85	25.10	1.059			0.01	0.324	0.343	-11.8%
	1st	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	26590	1905	19.64	20.00	1.086			-0.04	0.437	0.475	
	2nd	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	26590	1905	19.60	20.00	1.096			-0.01	0.386	0.423	-10.9%
	1st	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	26340	1880	17.40	18.50	1.288			-0.05	0.655	0.844	
41	2nd	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	26340	1880	17.35	18.50	1.303			-0.03	0.555	0.723	-14.3%
	1st	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Side	10mm	4	26865	831.5	24.64	25.50	1.219			-0.01	0.589	0.718	
42	2nd	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Side	10mm	4	26865	831.5	24.66	25.50	1.213			0	0.551	0.669	-6.8%
	1st	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	4	26865	831.5	24.57	25.10	1.130			0.17	0.376	0.425	
	2nd	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	4	26865	831.5	24.55	25.10	1.135			-0.05	0.366	0.415	-2.4%
	1st	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	4	27710	2310	18.85	19.90	1.274			-0.02	0.360	0.458	
	2nd	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	4	27710	2310	18.83	19.90	1.279			0.01	0.338	0.432	-5.7%
	1st	LTE Band 30_Ant 0	10M	QPSK	1	49	Bottom Side	10mm	4	27710	2310	16.42	17.40	1.253			0.01	0.663	0.831	
43	2nd	LTE Band 30_Ant 0	10M	QPSK	1	49	Bottom Side	10mm	4	27710	2310	16.40	17.40	1.259			0.02	0.616	0.775	-6.7%
	1st	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	39750	2506	20.91	21.20	1.069	62.9	1.006	-0.02	0.546	0.587	
	2nd	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	39750	2506	20.83	21.20	1.089	62.9	1.006	-0.01	0.517	0.566	-3.6%
	1st	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40620	2593	22.36	22.80	1.107	42.9	1.009	0	0.550	0.614	
	2nd	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40620	2593	22.30	22.80	1.122	42.9	1.009	-0.02	0.475	0.538	-12.4%
	1st	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	39750	2506	18.50	19.90	1.380	62.9	1.006	0.02	0.487	0.676	
	2nd	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	39750	2506	18.52	19.90	1.374	62.9	1.006	-0.02	0.461	0.637	-5.8%
	1st	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	39750	2506	19.93	21.60	1.469	42.9	1.009	-0.09	0.462	0.685	
44	2nd	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	39750	2506	19.95	21.60	1.462	42.9	1.009	0.01	0.443	0.654	-4.5%
	1st	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	56640	3690	19.93	20.70	1.194	62.9	1.006	-0.05	0.699	0.840	
	2nd	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	56640	3690	19.84	20.70	1.219	62.9	1.006	-0.04	0.513	0.629	-25.1%
	1st	LTE Band 48_Ant 7	20M	QPSK	1	0	Bottom Side	10mm	4	55830	3609	22.28	22.40	1.028	62.9	1.006	0.01	0.704	0.728	
45	2nd	LTE Band 48_Ant 7	20M	QPSK	1	0	Bottom Side	10mm	4	55830	3609	22.20	22.40	1.047	62.9	1.006	-0.02	0.672	0.708	-2.7%
	1st	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	132572	1770	20.84	21.30	1.112			-0.01	0.468	0.520	
	2nd	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	132572	1770	20.81	21.30	1.119			-0.01	0.427	0.478	-8.1%
	1st	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	132072	1720	17.81	18.80	1.256			0	0.544	0.683	
46	2nd	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	132072	1720	17.78	18.80	1.265			-0.01	0.530	0.670	-1.9%
	1st	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	132572	1770	21.19	22.20	1.262			-0.02	0.486	0.613	
	2nd	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	132572	1770	21.22	22.20	1.253			-0.01	0.477	0.598	-2.4%
	1st	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	132572	1770	20.23	20.50	1.064			0.02	0.283	0.301	
	2nd	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	132572	1770	20.20	20.50	1.072			-0.02	0.272	0.291	-3.3%



FCC SAR TEST REPORT

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	1st	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	133297	680.5	24.71	25.50	1.199			0.02	0.400	0.480	
47	2nd	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	133297	680.5	24.75	25.50	1.189			-0.08	0.384	0.456	-5.0%
	1st	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	4	133297	680.5	24.51	25.10	1.146			0.01	0.195	0.223	
	2nd	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	4	133297	680.5	24.55	25.10	1.135			-0.03	0.193	0.219	-1.8%
	1st	FR1 n2_Ant 1	20M	BPSK	1	53	Top Side	10mm	4	380000	1900	20.63	21.20	1.140			-0.03	0.580	0.661	-7.4%
	2nd	FR1 n2_Ant 1	20M	BPSK	1	53	Top Side	10mm	4	380000	1900	20.60	21.20	1.148			0	0.533	0.612	
	1st	FR1 n2_Ant 5	20M	BPSK	50	0	Right Side	10mm	4	380000	1900	20.35	21.20	1.216			-0.04	0.541	0.658	-0.6%
48	2nd	FR1 n2_Ant 5	20M	BPSK	50	0	Right Side	10mm	4	380000	1900	20.37	21.20	1.211			0.01	0.540	0.654	
	1st	FR1 n7_Ant 2	50M	BPSK	1	1	Right Side	10mm	4	507000	2535	18.97	19.90	1.239			0.08	0.561	0.695	-9.6%
	2nd	FR1 n7_Ant 2	50M	BPSK	1	1	Right Side	10mm	4	507000	2535	18.95	19.90	1.245			0.02	0.505	0.628	
	1st	FR1 n7_Ant 0	50M	BPSK	1	1	Bottom Side	10mm	4	507000	2535	17.52	18.60	1.282			-0.01	0.628	0.805	-4.2%
49	2nd	FR1 n7_Ant 0	50M	BPSK	1	1	Bottom Side	10mm	4	507000	2535	17.45	18.60	1.303			-0.07	0.592	0.771	
	1st	FR1 n12_Ant 0	15M	BPSK	1	1	Left Side	10mm	4	141500	707.5	24.66	25.50	1.213			0.01	0.450	0.546	-23.1%
50	2nd	FR1 n12_Ant 0	15M	BPSK	1	1	Left Side	10mm	4	141500	707.5	24.61	25.50	1.227			0.01	0.342	0.420	
	1st	FR1 n12_Ant 1	15M	BPSK	1	77	Back	10mm	4	141500	707.5	24.84	25.10	1.062			0	0.227	0.241	-9.1%
	2nd	FR1 n12_Ant 1	15M	BPSK	1	77	Back	10mm	4	141500	707.5	24.86	25.10	1.057			0.06	0.207	0.219	
	1st	FR1 n25_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	376500	1882.5	20.29	21.20	1.233			0.02	0.462	0.570	-1.2%
	2nd	FR1 n25_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	376500	1882.5	20.32	21.20	1.225			0	0.460	0.563	
	1st	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Side	10mm	4	376500	1882.5	18.20	18.20	1.000			0	0.846	0.846	-6.3%
51	2nd	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Side	10mm	4	376500	1882.5	18.14	18.20	1.014			-0.03	0.782	0.793	
	1st	FR1 n26_Ant 0	20M	BPSK	1	1	Bottom Side	10mm	4	166300	831.5	24.60	25.10	1.122			-0.01	0.704	0.790	-8.6%
52	2nd	FR1 n26_Ant 0	20M	BPSK	1	1	Bottom Side	10mm	4	166300	831.5	24.55	25.10	1.135			0	0.636	0.722	
	1st	FR1 n26_Ant 1	20M	BPSK	1	104	Back	10mm	4	166300	831.5	24.81	25.10	1.069			0	0.417	0.446	-15.0%
	2nd	FR1 n26_Ant 1	20M	BPSK	1	104	Back	10mm	4	166300	831.5	24.78	25.10	1.076			-0.02	0.352	0.379	
	1st	FR1 n30_Ant 2	10M	BPSK	1	1	Right Side	10mm	4	462000	2310	18.42	19.40	1.253			0	0.363	0.455	-8.1%
	2nd	FR1 n30_Ant 2	10M	BPSK	1	1	Right Side	10mm	4	462000	2310	18.45	19.40	1.245			-0.01	0.336	0.418	
	1st	FR1 n30_Ant 0	10M	BPSK	1	26	Bottom Side	10mm	4	462000	2310	15.76	16.90	1.300			0.02	0.641	0.833	-3.7%
53	2nd	FR1 n30_Ant 0	10M	BPSK	1	26	Bottom Side	10mm	4	462000	2310	15.70	16.90	1.318			-0.04	0.608	0.802	
	1st	FR1 n41_Ant 2	100M	BPSK	135	0	Right Side	10mm	4	518598	2592.99	17.68	18.70	1.265			-0.02	0.399	0.505	-8.7%
	2nd	FR1 n41_Ant 2	100M	BPSK	135	0	Right Side	10mm	4	518598	2592.99	17.70	18.70	1.259			-0.01	0.366	0.461	
	1st	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	21.36	21.70	1.081			-0.02	0.511	0.553	-3.6%
	2nd	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	21.35	21.70	1.084			-0.03	0.492	0.533	
	1st	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	18.20	18.40	1.047			0	0.687	0.719	-1.8%
	2nd	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	18.14	18.40	1.062			-0.03	0.665	0.706	
	1st	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	21.23	21.50	1.064			-0.06	0.699	0.744	-3.4%
	2nd	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	21.26	21.50	1.057			-0.02	0.680	0.719	
	1st	FR1 n41_Ant 1	100M	BPSK	135	0	Top Side	10mm	4	518598	2592.99	18.35	19.3	1.245			-0.02	0.655	0.815	-10.6%
54	2nd	FR1 n41_Ant 1	100M	BPSK	135	0	Top Side	10mm	4	518598	2592.99	18.30	19.3	1.259			0	0.579	0.729	
	1st	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	518598	2592.99	21.42	22.3	1.225			-0.01	0.598	0.732	-3.6%
	2nd	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	518598	2592.99	21.37	22.3	1.239			0.01	0.570	0.706	
	1st	FR1 n41_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	18.57	19.40	1.211			-0.01	0.399	0.483	-6.4%
	2nd	FR1 n41_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	18.60	19.40	1.202			0.04	0.376	0.452	
	1st	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	21.55	22.50	1.245			-0.04	0.404	0.503	-4.2%
	2nd	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	21.35	22.50	1.303			0.03	0.370	0.482	
	1st	FR1 n48_Ant 6	20M	BPSK	1	49	Left Side	10mm	4	637334	3560.01	18.16	18.70	1.132			-0.01	0.715	0.810	-1.4%
55	2nd	FR1 n48_Ant 6	20M	BPSK	1	49	Left Side	10mm	4	637334	3560.01	18.18	18.70	1.127			-0.05	0.709	0.799	
	1st	FR1 n48_Ant 7	40M	BPSK	1	1	Bottom Side	10mm	4	641666	3624.99	19.55	20.10	1.135			-0.14	0.644	0.731	-7.8%
	2nd	FR1 n48_Ant 7	40M	BPSK	1	1	Bottom Side	10mm	4	641666	3624.99	19.50	20.10	1.148			-0.08	0.587	0.674	
	1st	FR1 n48_Ant 1	40M	BPSK	1	0	Top Side	10mm	4	641666	3624.99	21.44	22.50	1.276			-0.09	0.448	0.572	-14.3%
	2nd	FR1 n48_Ant 1	40M	BPSK	1	0	Top Side	10mm	4	641666	3624.99	21.40	22.50	1.288			0.07	0.380	0.490	
	1st	FR1 n48_Ant 5	40M	BPSK	1	0	Right Side	10mm	4	641666	3624.99	20.04	20.30	1.062			-0.04	0.504	0.535	-11.4%
	2nd	FR1 n48_Ant 5	40M	BPSK	1	0	Right Side	10mm	4	641666	3624.99	20.01	20.30	1.069			-0.1	0.443	0.474	
	1st	FR1 n66_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	349000	1745	20.56	21.50	1.242			-0.03	0.388	0.482	-1.9%
	2nd	FR1 n66_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	349000	1745	20.58	21.50	1.236			-0.02	0.383	0.473	
	1st	FR1 n66_Ant 0	40M	BPSK	108	0	Bottom Side	10mm	4	349000	1745	17.76	18.10	1.081			-0.03	0.749	0.810	-4.8%
56	2nd	FR1 n66_Ant 0	40M	BPSK	108	0	Bottom Side	10mm	4	349000	1745	17.78	18.10	1.076			-0.03	0.716	0.771	



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	1st	FR1 n66_Ant 1	40M	BPSK	1	108	Top Side	10mm	4	349000	1745	22.27	22.70	1.104			-0.02	0.412	0.455	
	2nd	FR1 n66_Ant 1	40M	BPSK	1	108	Top Side	10mm	4	349000	1745	22.29	22.70	1.099			-0.01	0.360	0.396	-13.0%
	1st	FR1 n66_Ant 5	40M	BPSK	108	0	Right Side	10mm	4	349000	1745	20.78	21.00	1.052			-0.01	0.306	0.322	
	2nd	FR1 n66_Ant 5	40M	BPSK	108	0	Right Side	10mm	4	349000	1745	20.80	21.00	1.047			-0.01	0.305	0.319	-0.9%
	1st	FR1 n70_Ant 2	15M	BPSK	36	0	Right Side	10mm	4	340500	1702.5	20.87	21.80	1.239			-0.01	0.332	0.411	
	2nd	FR1 n70_Ant 2	15M	BPSK	36	0	Right Side	10mm	4	340500	1702.5	20.88	21.80	1.236			-0.02	0.330	0.408	-0.7%
	1st	FR1 n70_Ant 0	15M	BPSK	36	22	Bottom Side	10mm	4	340500	1702.5	18.40	19.00	1.148			-0.03	0.738	0.847	
57	2nd	FR1 n70_Ant 0	15M	BPSK	36	22	Bottom Side	10mm	4	340500	1702.5	18.38	19.00	1.153			0.02	0.721	0.832	-1.8%
	1st	FR1 n71_Ant 0	20M	BPSK	1	1	Left Side	10mm	4	136100	680.5	24.54	25.50	1.247			-0.01	0.499	0.622	
58	2nd	FR1 n71_Ant 0	20M	BPSK	1	1	Left Side	10mm	4	136100	680.5	24.56	25.50	1.242			-0.01	0.481	0.597	-4.0%
	1st	FR1 n71_Ant 1	20M	BPSK	1	53	Left Side	10mm	4	136100	680.5	24.96	25.10	1.033			0	0.271	0.280	
	2nd	FR1 n71_Ant 1	20M	BPSK	1	53	Left Side	10mm	4	136100	680.5	24.98	25.10	1.028			-0.01	0.268	0.276	-1.4%
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	17.25	17.50	1.059			-0.06	0.392	0.415	
	2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	17.20	17.50	1.072			-0.06	0.320	0.343	-17%
	1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	20.42	20.70	1.067			0.01	0.415	0.443	
	2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	20.38	20.70	1.076			-0.13	0.348	0.375	-15%
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	16.97	17.50	1.130			-0.04	0.513	0.580	
	2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	16.88	17.50	1.153			0.01	0.375	0.433	-25%
	1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	20.15	20.70	1.135			-0.09	0.491	0.557	
	2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	20.10	20.70	1.148			-0.07	0.390	0.448	-20%
	1st	FR1 n77_Ant 7	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	20.08	20.40	1.076			0.05	0.595	0.640	
	2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	19.66	20.40	1.186			-0.03	0.398	0.472	-26%
	1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	22.99	23.40	1.099			0.17	0.580	0.637	
	2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	22.95	23.40	1.109			-0.16	0.458	0.508	-20%
	1st	FR1 n77_Ant 7	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	20.23	20.40	1.040			-0.17	0.407	0.423	
	2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	20.20	20.40	1.047			-0.04	0.378	0.396	-6%
	1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	23.13	23.40	1.064			-0.14	0.397	0.422	
	2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	23.07	23.40	1.079			0.03	0.364	0.393	-7%
	1st	FR1 n77_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	22.94	23.1	1.038			-0.1	0.473	0.491	
	2nd	FR1 n77_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	22.91	23.1	1.045			0.13	0.454	0.474	-3%
	1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	26.07	26.3	1.054			-0.07	0.477	0.503	
	2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	26.01	26.3	1.069			-0.02	0.437	0.467	-5%
	1st	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	22.9	23.1	1.047			0.13	0.299	0.313	
	2nd	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	22.87	23.1	1.054			-0.12	0.274	0.289	-8%
	1st	FR1 n77_HPUE_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	26.02	26.3	1.067			-0.07	0.287	0.306	
	2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	26.01	26.3	1.069			0.06	0.277	0.296	-3%
	1st	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	18.33	19.10	1.194			-0.01	0.543	0.648	
59	2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	18.30	19.10	1.202			-0.01	0.440	0.529	-18%
	1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Right Side	10mm	4	656000	3840	21.59	22.10	1.125			0.03	0.519	0.584	
	2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Right Side	10mm	4	656000	3840	21.52	22.10	1.143			-0.08	0.430	0.491	-16%
	1st	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	18.51	19.10	1.146			0.02	0.214	0.245	
	2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	18.55	19.10	1.135			0.01	0.200	0.227	-7%
	1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	21.74	22.10	1.086			0.05	0.223	0.242	
	2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	21.76	22.10	1.081			0.02	0.221	0.239	-1%

13.3 Body-Worn SAR

Plot No.	No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Deviation (%)
60	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	189	836.4	28.07	29.40	1.358	0.05	0.701	0.952	-16.6%
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	189	836.4	28.02	29.40	1.374	-0.01	0.578	0.794	
	1st	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	189	836.4	28.07	28.70	1.156	0.05	0.701	0.810	-16.5%
	2nd	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	189	836.4	28.02	28.70	1.169	-0.01	0.578	0.676	
	1st	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	5/6	189	836.4	28.46	30.00	1.426	0.06	0.418	0.596	-20.6%
	2nd	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	5/6	189	836.4	28.40	30.00	1.445	-0.04	0.327	0.473	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	5	512	1850.2	23.34	24.80	1.400	0.01	0.384	0.537	-7.3%
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	5	512	1850.2	23.29	24.80	1.416	0.06	0.352	0.498	
	1st	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	6	512	1850.2	23.34	24.10	1.191	0.01	0.384	0.457	-7.2%
	2nd	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	6	512	1850.2	23.29	24.10	1.205	0.06	0.352	0.424	
61	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	661	1880	21.34	22.60	1.337	-0.17	0.547	0.731	-1.8%
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	661	1880	21.38	22.60	1.324	-0.13	0.542	0.718	
	1st	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	661	1880	21.34	21.90	1.138	-0.17	0.547	0.622	-1.8%
	2nd	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	661	1880	21.38	21.90	1.127	-0.13	0.542	0.611	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5	9538	1907.6	20.69	22.00	1.352	0.02	0.416	0.562	-14.8%
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5	9538	1907.6	20.65	22.00	1.365	-0.01	0.351	0.479	
	1st	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	6	9538	1907.6	20.69	21.30	1.151	0.02	0.416	0.479	-14.8%
	2nd	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	6	9538	1907.6	20.65	21.30	1.161	-0.01	0.351	0.408	
62	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	5	9538	1907.6	18.38	20.10	1.486	-0.02	0.518	0.770	-19.7%
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	5	9538	1907.6	18.30	20.10	1.514	-0.1	0.408	0.618	
	1st	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	6	9538	1907.6	18.38	19.40	1.265	-0.02	0.518	0.655	-19.7%
	2nd	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	6	9538	1907.6	18.30	19.40	1.288	-0.1	0.408	0.526	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5	1312	1712.4	20.66	21.90	1.330	-0.05	0.382	0.508	-11.8%
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5	1312	1712.4	20.64	21.90	1.337	-0.01	0.335	0.448	
	1st	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	6	1312	1712.4	20.66	21.20	1.132	-0.05	0.382	0.433	-12.0%
	2nd	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	6	1312	1712.4	20.64	21.20	1.138	-0.01	0.335	0.381	
63	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	5	1413	1732.6	18.94	20.00	1.276	0.01	0.409	0.522	-11.3%
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	5	1413	1732.6	18.91	20.00	1.285	-0.12	0.360	0.463	
	1st	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	6	1413	1732.6	18.94	19.30	1.086	0.01	0.409	0.444	-11.3%
	2nd	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	6	1413	1732.6	18.91	19.30	1.094	-0.12	0.360	0.394	
64	1st	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	25.10	25.50	1.096	0.03	0.651	0.714	-15.4%
	2nd	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	25.08	25.50	1.102	0.03	0.548	0.604	
	1st	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.62	25.10	1.117	-0.01	0.355	0.396	-26.8%
	2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.58	25.10	1.127	0.01	0.257	0.290	



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Plot No.	No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	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)	Deviation (%)
65	1st	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	5	19100	1900	20.99	22.70	1.483			-0.01	0.387	0.574	-0.3%
	2nd	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	5	19100	1900	20.97	22.70	1.489			-0.01	0.384	0.572	
	1st	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	6	19100	1900	20.99	22.00	1.262			-0.01	0.387	0.488	-0.2%
	2nd	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	6	19100	1900	20.97	22.00	1.268			-0.01	0.384	0.487	
	1st	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	5	19100	1900	21.03	21.90	1.222			-0.1	0.419	0.512	-3.1%
	2nd	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	5	19100	1900	21.00	21.90	1.230			-0.1	0.403	0.496	
	1st	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	6	19100	1900	21.03	21.20	1.040			-0.1	0.419	0.436	-3.2%
	2nd	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	6	19100	1900	21.00	21.20	1.047			-0.1	0.403	0.422	
	1st	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.45	20.40	1.245			0	0.521	0.648	-13.7%
	2nd	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.41	20.40	1.256			0.01	0.445	0.559	
	1st	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.45	19.70	1.059			0	0.521	0.552	-13.8%
	2nd	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.41	19.70	1.069			0.01	0.445	0.476	
66	1st	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.65	21.40	1.496			-0.12	0.625	0.935	-11.7%
	2nd	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.61	21.40	1.510			-0.16	0.547	0.826	
	1st	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.65	20.70	1.274			-0.12	0.625	0.796	-11.7%
	2nd	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.61	20.70	1.285			-0.16	0.547	0.703	
67	1st	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23095	707.5	24.37	25.50	1.297			0.01	0.380	0.493	-0.2%
	2nd	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23095	707.5	24.33	25.50	1.309			-0.05	0.376	0.492	
	1st	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	5/6	23095	707.5	24.32	25.10	1.197			-0.02	0.212	0.254	-2.8%
	2nd	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	5/6	23095	707.5	24.25	25.10	1.216			-0.11	0.203	0.247	
68	1st	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.65	25.50	1.216			-0.08	0.440	0.535	-13.1%
	2nd	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.67	25.50	1.211			-0.07	0.384	0.465	
	1st	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.59	25.10	1.125			-0.1	0.330	0.371	-4.6%
	2nd	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.55	25.10	1.135			-0.12	0.312	0.354	
69	1st	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	5	23330	793	24.27	25.00	1.183			0.01	0.450	0.532	-0.4%
	2nd	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	5	23330	793	24.26	25.00	1.186			0.01	0.447	0.530	
	1st	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	6	23330	793	24.27	24.30	1.007			0.01	0.450	0.453	-0.4%
	2nd	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	6	23330	793	24.26	24.30	1.009			0.01	0.447	0.451	
	1st	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23330	793	24.92	25.10	1.042			-0.01	0.373	0.389	-11.8%
	2nd	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23330	793	24.85	25.10	1.059			0.01	0.324	0.343	
	1st	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	5	26590	1905	19.64	20.70	1.276			-0.01	0.263	0.336	-3.3%
	2nd	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	5	26590	1905	19.60	20.70	1.288			0.08	0.252	0.325	
	1st	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	6	26590	1905	19.64	20.00	1.086			-0.01	0.263	0.286	-3.5%
	2nd	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	6	26590	1905	19.60	20.00	1.096			0.08	0.252	0.276	
70	1st	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	5	26340	1880	19.33	20.10	1.194			-0.07	0.511	0.610	-1.1%
	2nd	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	5	26340	1880	19.35	20.10	1.189			-0.04	0.507	0.603	
	1st	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	6	26340	1880	19.33	19.40	1.016			-0.07	0.511	0.519	-1.2%
	2nd	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	6	26340	1880	19.35	19.40	1.012			-0.04	0.507	0.513	
71	1st	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.64	25.50	1.219			-0.01	0.515	0.628	-2.5%
	2nd	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.66	25.50	1.213			0.02	0.504	0.612	
	1st	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.57	25.10	1.130			0.17	0.376	0.425	-2.4%
	2nd	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.55	25.10	1.135			-0.05	0.366	0.415	
	1st	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	5	27710	2310	18.85	20.60	1.496			-0.01	0.289	0.432	-0.2%
	2nd	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	5	27710	2310	18.83	20.60	1.503			-0.03	0.287	0.431	
	1st	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	6	27710	2310	18.85	19.90	1.274			-0.01	0.289	0.368	-0.3%
	2nd	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	6	27710	2310	18.83	19.90	1.279			-0.03	0.287	0.367	
72	1st	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	5	27710	2310	19.05	20.20	1.303			-0.13	0.763	0.994	-14.3%
	2nd	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	5	27710	2310	18.99	20.20	1.321			-0.15	0.645	0.852	
	1st	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	6	27710	2310	19.05	19.50	1.109			-0.13	0.763	0.846	-14.3%
	2nd	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	6	27710	2310	18.99	19.50	1.125			-0.15	0.645	0.725	
73	1st	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	5	39750	2506	20.91	22.30	1.377	62.9	1.006	0.05	0.465	0.644	-13.7%
	2nd	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	5	39750	2506	20.83	22.30	1.403	62.9	1.006	-0.02	0.394	0.556	
	1st	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	5	40185	2549.5	22.39	23.90	1.416	42.9	1.009	0.04	0.458	0.654	-22.3%



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	2nd	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	5	40185	2549.5	22.33	23.90	1.435	42.9	1.009	-0.03	0.351	0.508	
	1st	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	6	39750	2506	20.91	21.60	1.172	62.9	1.006	0.05	0.465	0.548	-13.7%
	2nd	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	6	39750	2506	20.83	21.60	1.194	62.9	1.006	-0.02	0.394	0.473	
	1st	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	6	40185	2549.5	22.39	23.20	1.205	42.9	1.009	0.04	0.458	0.557	-22.3%
	2nd	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Front	10mm	6	40185	2549.5	22.33	23.20	1.222	42.9	1.009	-0.03	0.351	0.433	
	1st	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	21.22	22.60	1.374	62.9	1.006	-0.12	0.490	0.677	-20.2%
	2nd	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	21.20	22.60	1.380	62.9	1.006	-0.19	0.389	0.540	
	1st	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	22.79	24.30	1.416	42.9	1.009	-0.03	0.432	0.617	-14.7%
	2nd	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	22.74	24.30	1.432	42.9	1.009	-0.04	0.364	0.526	
	1st	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	21.22	21.90	1.169	62.9	1.006	-0.12	0.490	0.576	-20.1%
	2nd	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	21.20	21.90	1.175	62.9	1.006	-0.19	0.389	0.460	
	1st	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	22.79	23.60	1.205	42.9	1.009	-0.03	0.432	0.525	-14.7%
	2nd	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	22.74	23.60	1.219	42.9	1.009	-0.04	0.364	0.448	
	1st	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	5	55830	3609	20.47	21.60	1.297	62.9	1.006	-0.15	0.372	0.485	-20.2%
	2nd	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	5	55830	3609	20.40	21.60	1.318	62.9	1.006	-0.14	0.292	0.387	
	1st	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	6	55830	3609	20.47	20.90	1.104	62.9	1.006	-0.15	0.372	0.413	-20.1%
	2nd	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	6	55830	3609	20.40	20.90	1.122	62.9	1.006	-0.14	0.292	0.330	
	1st	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	5	56640	3690	21.75	23.60	1.531	62.9	1.006	-0.03	0.319	0.491	-6.3%
74	2nd	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	5	56640	3690	21.73	23.60	1.538	62.9	1.006	-0.05	0.297	0.460	
	1st	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	6	56640	3690	21.75	22.90	1.303	62.9	1.006	-0.03	0.319	0.418	-6.5%
	2nd	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	6	56640	3690	21.73	22.90	1.309	62.9	1.006	-0.05	0.297	0.391	
	1st	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	5	132572	1770	20.84	22.00	1.306			-0.07	0.345	0.451	-0.7%
	2nd	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	5	132572	1770	20.81	22.00	1.315			-0.02	0.341	0.448	
	1st	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	6	132572	1770	20.84	21.30	1.112			-0.07	0.345	0.384	-0.5%
	2nd	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	6	132572	1770	20.81	21.30	1.119			-0.02	0.341	0.382	
	1st	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	5	132072	1720	19.61	21.50	1.545			-0.01	0.598	0.924	-2.5%
75	2nd	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	5	132072	1720	19.58	21.50	1.566			-0.09	0.579	0.901	
	1st	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	6	132072	1720	19.61	20.80	1.315			-0.01	0.598	0.787	-2.5%
	2nd	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	6	132072	1720	19.58	20.80	1.324			-0.09	0.579	0.767	
	1st	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132572	1770	21.19	22.90	1.483			-0.11	0.246	0.365	-2.5%
	2nd	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132572	1770	21.22	22.90	1.472			-0.12	0.242	0.356	
	1st	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132572	1770	21.19	22.20	1.262			-0.11	0.246	0.310	-2.3%
	2nd	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132572	1770	21.22	22.20	1.253			-0.12	0.242	0.303	
	1st	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	5	132572	1770	20.23	21.20	1.250			-0.09	0.191	0.239	-2.5%
	2nd	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	5	132572	1770	20.20	21.20	1.259			-0.17	0.185	0.233	
	1st	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	6	132572	1770	20.23	20.50	1.064			-0.09	0.191	0.203	-2.5%
	2nd	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	6	132572	1770	20.20	20.50	1.072			-0.17	0.185	0.198	
	1st	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.71	25.50	1.199			-0.09	0.417	0.500	-15.4%
76	2nd	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.75	25.50	1.189			0	0.356	0.423	
	1st	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.51	25.10	1.146			0.01	0.195	0.223	-1.8%
	2nd	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.55	25.10	1.135			-0.03	0.193	0.219	
	1st	FR1 n2_Ant 1	20M	BPSK	1	53	Back	10mm	5	380000	1900	21.58	22.80	1.324			-0.05	0.411	0.544	-3.9%
	2nd	FR1 n2_Ant 1	20M	BPSK	1	53	Back	10mm	5	380000	1900	21.61	22.80	1.315			-0.15	0.398	0.523	
	1st	FR1 n2_Ant 1	20M	BPSK	1	53	Back	10mm	6	380000	1900	21.58	22.10	1.127			-0.05	0.411	0.463	-3.7%
	2nd	FR1 n2_Ant 1	20M	BPSK	1	53	Back	10mm	6	380000	1900	21.61	22.10	1.119			-0.15	0.398	0.446	
	1st	FR1 n2_Ant 5	20M	BPSK	50	0	Back	10mm	5	380000	1900	20.35	21.90	1.429			-0.09	0.380	0.543	-1.5%
77	2nd	FR1 n2_Ant 5	20M	BPSK	50	0	Back	10mm	5	380000	1900	20.37	21.90	1.422			-0.09	0.376	0.535	
	1st	FR1 n2_Ant 5	20M	BPSK	50	0	Back	10mm	6	380000	1900	20.35	21.20	1.216			-0.09	0.380	0.462	-1.5%
	2nd	FR1 n2_Ant 5	20M	BPSK	50	0	Back	10mm	6	380000	1900	20.37	21.20	1.211			-0.09	0.376	0.455	
	1st	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	5	507000	2535	18.97	20.60	1.455			0.03	0.442	0.643	-17.9%
	2nd	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	5	507000	2535	18.95	20.60	1.462			-0.06	0.361	0.528	
	1st	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	6	507000	2535	18.97	19.90	1.239			0.03	0.442	0.548	-18.1%
	2nd	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	6	507000	2535	18.95	19.90	1.245			-0.06	0.361	0.449	
	1st	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	5	507000	2535	19.25	20.80	1.429			0.01	0.691	0.987	-7.9%
78	2nd	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	5	507000	2535	19.20	20.80	1.445			-0.03	0.629	0.909	
	1st	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	6	507000	2535	19.25	20.10	1.216			0.01	0.691	0.840	-7.9%



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	2nd	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	6	507000	2535	19.20	20.10	1.230			-0.03	0.629	0.774	
	1st	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.66	25.50	1.213			-0.04	0.408	0.495	-4.0%
79	2nd	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.61	25.50	1.227			-0.01	0.387	0.475	-4.0%
	1st	FR1 n12_Ant 1	15M	BPSK	1	77	Back	10mm	5/6	141500	707.5	24.84	25.10	1.062			0	0.227	0.241	-9.1%
	2nd	FR1 n12_Ant 1	15M	BPSK	1	77	Back	10mm	5/6	141500	707.5	24.86	25.10	1.057			0.06	0.207	0.219	-9.1%
	1st	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	20.29	21.90	1.449			0.01	0.407	0.590	-6.4%
	2nd	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	20.32	21.90	1.439			0.03	0.384	0.552	-6.4%
	1st	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	20.29	21.20	1.233			0.01	0.407	0.502	-6.4%
	2nd	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	20.32	21.20	1.225			0.03	0.384	0.470	-6.4%
	1st	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	18.20	19.50	1.349			-0.01	0.550	0.742	-14.4%
80	2nd	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	18.14	19.50	1.368			-0.01	0.464	0.635	-14.4%
	1st	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	18.20	18.80	1.148			-0.01	0.550	0.631	-14.4%
	2nd	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	18.14	18.80	1.164			-0.01	0.464	0.540	-14.4%
	1st	FR1 n26_Ant 0	20M	BPSK	1	1	Front	10mm	5/6	166300	831.5	24.60	25.50	1.230			-0.09	0.604	0.743	-8.9%
81	2nd	FR1 n26_Ant 0	20M	BPSK	1	1	Front	10mm	5/6	166300	831.5	24.55	25.50	1.245			0.03	0.544	0.677	-8.9%
	1st	FR1 n26_Ant 1	20M	BPSK	1	104	Back	10mm	5/6	166300	831.5	24.81	25.10	1.069			0	0.417	0.446	-15.0%
	2nd	FR1 n26_Ant 1	20M	BPSK	1	104	Back	10mm	5/6	166300	831.5	24.78	25.10	1.076			-0.02	0.352	0.379	-15.0%
	1st	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	5	462000	2310	18.42	20.10	1.472			-0.09	0.285	0.420	-6.4%
	2nd	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	5	462000	2310	18.45	20.10	1.462			-0.02	0.269	0.393	-6.4%
	1st	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	6	462000	2310	18.42	19.40	1.253			-0.09	0.285	0.357	-6.2%
	2nd	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	6	462000	2310	18.45	19.40	1.245			-0.02	0.269	0.335	-6.2%
	1st	FR1 n30_Ant 0	10M	BPSK	1	26	Front	10mm	5	462000	2310	17.87	19.50	1.455			-0.16	0.672	0.978	-4.3%
82	2nd	FR1 n30_Ant 0	10M	BPSK	1	26	Front	10mm	5	462000	2310	17.85	19.50	1.462			0.01	0.640	0.936	-4.3%
	1st	FR1 n30_Ant 0	10m	BPSK	1	26	Front	10mm	6	462000	2310	17.87	18.80	1.239			-0.16	0.672	0.832	-4.3%
	2nd	FR1 n30_Ant 0	10M	BPSK	1	26	Front	10mm	6	462000	2310	17.85	18.80	1.245			0.01	0.640	0.796	-4.3%
	1st	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	20.08	21.50	1.387			-0.08	0.355	0.492	-9.3%
	2nd	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	19.82	21.50	1.472			0.03	0.303	0.446	-9.3%
	1st	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	23.22	24.50	1.343			0.01	0.347	0.466	-9.7%
	2nd	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.96	24.50	1.426			0.14	0.295	0.421	-9.7%
	1st	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	20.08	20.80	1.180			-0.08	0.355	0.419	-9.3%
	2nd	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.82	20.80	1.253			0.03	0.303	0.380	-9.3%
	1st	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	23.22	23.80	1.143			0.01	0.347	0.397	-9.8%
	2nd	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	22.96	23.80	1.213			0.14	0.295	0.358	-9.8%
	1st	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	19.02	20.50	1.406			-0.06	0.555	0.780	-5.5%
83	2nd	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	18.91	20.50	1.442			-0.08	0.511	0.737	-5.5%
	1st	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.15	23.60	1.396			0.03	0.550	0.768	-7.2%
	2nd	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.10	23.60	1.413			0.08	0.505	0.713	-7.2%
	1st	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.02	19.80	1.197			-0.06	0.555	0.664	-5.6%
	2nd	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	18.91	19.80	1.227			-0.08	0.511	0.627	-5.6%
	1st	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	22.15	22.90	1.189			0.03	0.550	0.654	-7.2%
	2nd	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	22.10	22.90	1.202			0.08	0.505	0.607	-7.2%
	1st	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	19.38	20.7	1.355			-0.06	0.391	0.530	-3.2%
	2nd	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	19.33	20.7	1.371			-0.04	0.374	0.513	-3.2%
	1st	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.34	23.7	1.368			-0.08	0.372	0.509	-1.0%
	2nd	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.36	23.7	1.361			0.13	0.370	0.504	-1.0%
	1st	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.38	20	1.153			-0.06	0.391	0.451	-3.3%
	2nd	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.33	20	1.167			-0.04	0.374	0.436	-3.3%
	1st	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	22.34	23	1.164			-0.08	0.372	0.433	-0.9%
	2nd	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	22.36	23	1.159			0.13	0.370	0.429	-0.9%
	1st	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	19.73	21.40	1.469			-0.08	0.284	0.417	-3.4%
	2nd	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	19.68	21.40	1.486			0.02	0.271	0.403	-3.4%
	1st	FR1 n41_HPUE_Ant 5	100M	BPSK	1	137	Back	10mm	5	518598	2592.99	23.55	24.50	1.245			0.08	0.263	0.327	-0.9%
	2nd	FR1 n41_HPUE_Ant 5	100M	BPSK	1	137	Back	10mm	5	518598	2592.99	23.50	24.50	1.259			0.03	0.257	0.324	-0.9%
	1st	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	19.73	20.70	1.250			-0.08	0.284	0.355	-3.4%
	2nd	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	19.68	20.70	1.265			0.02	0.271	0.343	-3.4%
	1st	FR1 n41_HPUE_Ant 5	100M	BPSK	1	137	Back	10mm	6	518598	2592.99	23.55	23.80	1.059			0.08	0.263	0.279	-1.4%



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	2nd	FR1 n41_HPUE_Ant 5	100M	BPSK	1	137	Back	10mm	6	518598	2592.99	23.50	23.80	1.072			0.03	0.257	0.275	
	1st	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	5	641666	3624.99	18.61	19.70	1.285			-0.18	0.391	0.503	-1.8%
	2nd	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	5	641666	3624.99	18.55	19.70	1.303			-0.03	0.379	0.494	
	1st	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	6	641666	3624.99	18.61	19.00	1.094			-0.18	0.391	0.428	-1.9%
	2nd	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	6	641666	3624.99	18.55	19.00	1.109			-0.03	0.379	0.420	
	1st	FR1 n48_Ant 7	40M	BPSK	1	1	Front	10mm	5	641666	3624.99	20.59	22.10	1.416			-0.18	0.421	0.596	-2.0%
84	2nd	FR1 n48_Ant 7	40M	BPSK	1	1	Front	10mm	5	641666	3624.99	20.56	22.10	1.426			-0.15	0.410	0.584	
	1st	FR1 n48_Ant 7	40M	BPSK	1	1	Front	10mm	6	641666	3624.99	20.59	21.40	1.205			-0.18	0.421	0.507	-2.0%
	2nd	FR1 n48_Ant 7	40M	BPSK	1	1	Front	10mm	6	641666	3624.99	20.56	21.40	1.213			-0.15	0.410	0.497	
	1st	FR1 n48_Ant 1	40M	BPSK	1	0	Back	10mm	5/6	641666	3624.99	21.44	22.50	1.276			0.02	0.304	0.388	-22.7%
	2nd	FR1 n48_Ant 1	40M	BPSK	1	0	Back	10mm	5/6	641666	3624.99	21.40	22.50	1.288			-0.15	0.233	0.300	
	1st	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	5	641666	3624.99	20.04	21.00	1.247			-0.07	0.236	0.294	-19.7%
	2nd	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	5	641666	3624.99	20.01	21.00	1.256			-0.18	0.188	0.236	
	1st	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	6	641666	3624.99	20.04	20.30	1.062			-0.07	0.236	0.251	-19.9%
	2nd	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	6	641666	3624.99	20.01	20.30	1.069			-0.18	0.188	0.201	
	1st	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	5	349000	1745	20.56	22.20	1.459			-0.03	0.351	0.512	-4.1%
	2nd	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	5	349000	1745	20.58	22.20	1.452			0.04	0.338	0.491	
	1st	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	6	349000	1745	20.56	21.50	1.242			-0.03	0.351	0.436	-4.1%
	2nd	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	6	349000	1745	20.58	21.50	1.236			0.04	0.338	0.418	
	1st	FR1 n66_Ant 0	40M	BPSK	108	0	Front	10mm	5	349000	1745	19.74	21.00	1.337			-0.16	0.727	0.972	-5.7%
85	2nd	FR1 n66_Ant 0	40M	BPSK	108	0	Front	10mm	5	349000	1745	19.71	21.00	1.346			-0.03	0.681	0.917	
	1st	FR1 n66_Ant 0	40M	BPSK	108	0	Front	10mm	6	349000	1745	19.74	20.30	1.138			-0.16	0.727	0.827	-5.7%
	2nd	FR1 n66_Ant 0	40M	BPSK	108	0	Front	10mm	6	349000	1745	19.71	20.30	1.146			-0.03	0.681	0.780	
	1st	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	5	349000	1745	23.20	24.60	1.380			-0.02	0.313	0.432	1.6%
	2nd	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	5	349000	1745	23.24	24.60	1.368			0.05	0.311	0.425	
	1st	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	6	349000	1745	23.20	23.90	1.175			-0.02	0.313	0.368	-1.6%
	2nd	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	6	349000	1745	23.24	23.90	1.164			0.05	0.311	0.362	
	1st	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	5	349000	1745	22.36	23.80	1.393			0.03	0.337	0.469	-0.9%
	2nd	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	5	349000	1745	22.39	23.80	1.384			-0.04	0.336	0.465	
	1st	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	6	349000	1745	22.36	23.10	1.186			0.03	0.337	0.400	-1.0%
	2nd	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	6	349000	1745	22.39	23.10	1.178			-0.04	0.336	0.396	
	1st	FR1 n70_Ant 2	15M	BPSK	36	0	Back	10mm	5	340500	1702.5	20.87	22.50	1.455			0.04	0.330	0.480	-2.9%
	2nd	FR1 n70_Ant 2	15M	BPSK	36	0	Back	10mm	5	340500	1702.5	20.88	22.50	1.452			0.02	0.321	0.466	
	1st	FR1 n70_Ant 2	15M	BPSK	36	0	Back	10mm	6	340500	1702.5	20.87	21.80	1.239			0.04	0.330	0.409	-2.9%
	2nd	FR1 n70_Ant 2	15M	BPSK	36	0	Back	10mm	6	340500	1702.5	20.88	21.80	1.236			0.02	0.321	0.397	
	1st	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	5	340500	1702.5	18.41	19.90	1.409			-0.01	0.375	0.528	-4.2%
86	2nd	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	5	340500	1702.5	18.36	19.90	1.426			0.01	0.355	0.506	
	1st	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	6	340500	1702.5	18.41	19.20	1.199			-0.01	0.375	0.450	-4.2%
	2nd	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	6	340500	1702.5	18.36	19.20	1.213			0.01	0.355	0.431	
	1st	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.54	25.50	1.247			0.02	0.424	0.529	-7.9%
87	2nd	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.56	25.50	1.242			0.01	0.392	0.487	
	1st	FR1 n71_Ant 1	20M	BPSK	1	53	Front	10mm	5/6	136100	680.5	24.96	25.10	1.033			-0.01	0.259	0.267	-6.7%
	2nd	FR1 n71_Ant 1	20M	BPSK	1	53	Front	10mm	5/6	136100	680.5	24.98	25.10	1.028			-0.03	0.242	0.249	
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	5	656000	3840	19.33	20.40	1.279			-0.04	0.608	0.778	-15%
88	2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	5	656000	3840	19.22	20.40	1.312			-0.06	0.506	0.664	
	1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	5	656000	3840	22.24	23.60	1.368			0.09	0.565	0.773	-15%
	2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	5	656000	3840	22.13	23.60	1.403			-0.1	0.469	0.658	
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	6	656000	3840	19.33	19.70	1.089			-0.04	0.608	0.662	-15%
	2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	6	656000	3840	19.22	19.70	1.117			-0.06	0.506	0.565	
	1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	6	656000	3840	22.24	22.90	1.164			0.09	0.565	0.658	-15%
	2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	6	656000	3840	22.13	22.90	1.194			-0.1	0.469	0.560	
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	19.04	20.40	1.368			0.19	0.363	0.496	-9%
	2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	19.00	20.40	1.380			0.09	0.328	0.453	-9%
	1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	21.96	23.60	1.459			-0.03	0.339	0.495	-9%
	2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	21.91	23.60	1.476			-0.09	0.305	0.450	-9%
	1st	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	19.04	19.70	1.164			0.19	0.363	0.423	-9%



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2nd	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	19.00	19.70	1.175			0.09	0.328	0.385	
1st	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	21.96	22.90	1.242			-0.03	0.339	0.421	-9%
2nd	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	21.91	22.90	1.256			-0.09	0.305	0.383	
1st	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	5	656000	3840	20.08	21.10	1.265			0.09	0.447	0.565	-1%
2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	5	656000	3840	19.66	21.10	1.393			0.09	0.402	0.560	
1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	5	656000	3840	22.99	24.10	1.291			-0.13	0.436	0.563	-11%
2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	5	656000	3840	22.95	24.10	1.303			-0.02	0.385	0.502	
1st	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	6	656000	3840	20.08	20.40	1.076			0.09	0.447	0.481	-1%
2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	6	656000	3840	19.66	20.40	1.186			0.09	0.402	0.477	
1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	6	656000	3840	22.99	23.40	1.099			-0.13	0.436	0.479	-11%
2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	6	656000	3840	22.95	23.40	1.109			-0.02	0.385	0.427	
1st	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	20.23	21.10	1.222			0.19	0.174	0.213	-12%
2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	20.20	21.10	1.230			-0.15	0.153	0.188	
1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	23.13	24.10	1.250			0.04	0.169	0.211	-6%
2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	23.07	24.10	1.268			-0.14	0.156	0.198	
1st	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	20.23	20.40	1.040			0.19	0.174	0.181	-12%
2nd	FR1 n77_Ant 7	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	20.20	20.40	1.047			-0.15	0.153	0.160	
1st	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	23.13	23.40	1.064			0.04	0.169	0.180	-7%
2nd	FR1 n77_HPUE_Ant 7	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	23.07	23.40	1.079			-0.14	0.156	0.168	
1st	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	22.94	23.8	1.219			-0.08	0.389	0.474	-5%
2nd	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	22.91	23.8	1.227			0.03	0.365	0.448	
1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	26.07	27	1.239			-0.08	0.389	0.482	-22%
2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	26.01	27	1.256			-0.15	0.301	0.378	
1st	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	22.94	23.1	1.038			-0.08	0.389	0.404	-6%
2nd	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	22.91	23.1	1.045			0.03	0.365	0.381	
1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	26.07	26.3	1.054			-0.08	0.389	0.410	-21%
2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	26.01	26.3	1.069			-0.15	0.301	0.322	
1st	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	22.90	23.8	1.230			-0.13	0.299	0.368	-4%
2nd	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	22.87	23.8	1.239			0.05	0.285	0.353	
1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	26.03	27	1.250			0.19	0.287	0.359	-22%
2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	26.00	27	1.259			-0.03	0.223	0.281	
1st	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	22.90	23.1	1.047			-0.13	0.299	0.313	-4%
2nd	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	22.87	23.1	1.054			0.05	0.285	0.301	
1st	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	26.03	26.3	1.064			0.19	0.287	0.305	-22%
2nd	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	26.00	26.3	1.072			-0.03	0.223	0.239	
1st	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	656000	3840	20.26	21.30	1.271			-0.19	0.349	0.443	-8%
2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	656000	3840	20.21	21.30	1.285			0.03	0.316	0.406	
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Front	10mm	5	656000	3840	23.21	24.30	1.285			-0.11	0.332	0.427	-8%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Front	10mm	5	656000	3840	23.18	24.30	1.294			-0.09	0.302	0.391	
1st	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	656000	3840	20.26	20.60	1.081			-0.19	0.349	0.377	-8%
2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	656000	3840	20.21	20.60	1.094			0.03	0.316	0.346	
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Front	10mm	6	656000	3840	23.21	23.60	1.094			-0.11	0.332	0.363	-8%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	137	Front	10mm	6	656000	3840	23.18	23.60	1.102			-0.09	0.302	0.333	
1st	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	20.57	21.30	1.183			0.1	0.136	0.161	-6%
2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	20.52	21.30	1.197			-0.09	0.127	0.152	
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	23.55	24.30	1.189			-0.16	0.129	0.153	-2%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	23.51	24.30	1.199			-0.17	0.125	0.150	
1st	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	20.57	20.60	1.007			0.1	0.136	0.137	-6%
2nd	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	20.52	20.60	1.019			-0.09	0.127	0.129	
1st	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	23.55	23.60	1.012			-0.16	0.129	0.130	-2%
2nd	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	23.51	23.60	1.021			-0.17	0.125	0.128	



13.4 Product Specific SAR

Table with 14 columns: Plot No., No., Band, Mode, Test Position, Gap (mm), Power Index, Ch., Freq. (MHz), Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Power Drift (dB), Measured 10g SAR (W/kg), Reported 10g SAR (W/kg), Deviation (%). Rows 89 and 90.

Table with 19 columns: Plot No., No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Power Index, 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), Deviation (%). Rows 90 through 98.



14. WLAN/BT 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/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. 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.
5. For 5.3GHz / 5.5GHz / 5.9GHz / 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.

WLAN Note:

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. Per KDB 248227 D01v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test position when 802.11 DSS mode is active at transmit antenna 3 and 4
3. Per KDB 248227 D01v02r02, for 2.4GHz WLAN MIMO operation for 802.11g/n, when the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured, so 802.11g mode is selected to be tested.
4. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
5. 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.
6. 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.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
8. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
9. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4
10. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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
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 PD_{inc} 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 iPD_n 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.

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

NFC Note:

1. NFC mainly operate in hand-held extremity exposure conditions and NFC sensing distance with other device or reading tag is about 20cm, therefore Standalone 10-g extremity SAR testing for NFC will be performed with active mode and max power mode, with 100% duty cycle at 0mm separation distance.
2. NFC SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
3. NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
4. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.



14.1 Head SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	1	2412	11.95	13.50	1.429	98.85	1.012	-0.09	0.080	0.116
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	6	2437	11.95	13.50	1.429	98.85	1.012	-0.17	0.155	0.224
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	11	2462	11.85	13.50	1.462	98.85	1.012	0.14	0.157	0.232
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	12	2467	11.75	13.50	1.496	98.85	1.012	0.14	0.154	0.233
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	13	2472	11.85	13.50	1.462	98.85	1.012	-0.03	0.145	0.215
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	1	1	2412	11.95	13.50	1.429	98.85	1.012	-0.02	0.012	0.017
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	1	1	2412	11.95	13.50	1.429	98.85	1.012	0.04	0.076	0.110
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	1	1	2412	11.95	13.50	1.429	98.85	1.012	0.01	0.008	0.012
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	11	2462	11.95	13.50	1.429	98.97	1.010	0.09	0.211	0.305
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	11	2462	11.95	13.50	1.429	98.97	1.010	0.02	0.237	0.342
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	11	2462	11.95	13.50	1.429	98.97	1.010	-0.01	0.486	0.701
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	11	2462	11.95	13.50	1.429	98.97	1.010	-0.14	0.527	0.761
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	1	2412	11.65	13.50	1.531	98.97	1.010	-0.15	0.491	0.759
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	6	2437	11.75	13.50	1.496	98.97	1.010	-0.01	0.480	0.725
99	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	12	2467	11.75	13.50	1.496	98.97	1.010	-0.12	0.728	1.100
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	13	2472	11.95	13.50	1.429	98.97	1.010	-0.1	0.513	0.740
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(3)	1	1	2412	11.95	13.50	1.429	93.46	1.070	0.05	0.097	0.148
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(4)	1	1	2412	11.55	13.50	1.567	93.46	1.070	0.05	0.191	0.320
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(3)	1	1	2412	11.95	13.50	1.429	93.46	1.070	-0.05	0.001	0.002
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(4)	1	1	2412	11.55	13.50	1.567	93.46	1.070	-0.05	0.034	0.057
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(3)	1	1	2412	11.95	13.50	1.429	93.46	1.070	0.05	0.075	0.115
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(4)	1	1	2412	11.55	13.50	1.567	93.46	1.070	0.05	0.432	0.724
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	1	1	2412	11.95	13.50	1.429	93.46	1.070	0.1	0.001	0.002
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	1	1	2412	11.55	13.50	1.567	93.46	1.070	0.1	0.502	0.842
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	1	6	2437	11.85	13.50	1.462	93.46	1.070	-0.08	0.001	0.002
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	1	6	2437	11.55	13.50	1.567	93.46	1.070	-0.08	0.471	0.790
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	1	11	2462	11.65	13.50	1.531	93.46	1.070	-0.15	0.001	0.002
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	1	11	2462	11.75	13.50	1.496	93.46	1.070	-0.15	0.645	1.033
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	1	12	2467	11.55	13.50	1.567	93.46	1.070	-0.05	0.001	0.002
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	1	12	2467	11.55	13.50	1.567	93.46	1.070	-0.05	0.538	0.902
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	1	13	2472	11.95	13.00	1.274	93.46	1.070	0.11	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	1	13	2472	11.55	13.00	1.396	93.46	1.070	0.11	0.474	0.708



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	1	2412	11.95	12.50	1.135	98.85	1.012	-0.09	0.080	0.092
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	6	2437	11.95	12.50	1.135	98.85	1.012	-0.17	0.155	0.178
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	11	2462	11.85	12.50	1.161	98.85	1.012	0.14	0.157	0.185
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	12	2467	11.75	12.50	1.189	98.85	1.012	0.14	0.154	0.185
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	13	2472	11.85	12.50	1.161	98.85	1.012	-0.03	0.145	0.170
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	2	1	2412	11.95	12.50	1.135	98.85	1.012	-0.02	0.012	0.014
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	2	1	2412	11.95	12.50	1.135	98.85	1.012	0.04	0.076	0.087
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	2	1	2412	11.95	12.50	1.135	98.85	1.012	0.01	0.008	0.009
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	2	11	2462	11.95	12.50	1.135	98.97	1.010	0.09	0.211	0.242
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	2	11	2462	11.95	12.50	1.135	98.97	1.010	0.02	0.237	0.272
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	2	11	2462	11.95	12.50	1.135	98.97	1.010	-0.01	0.486	0.557
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	11	2462	11.95	12.50	1.135	98.97	1.010	-0.14	0.527	0.604
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	1	2412	11.65	12.50	1.216	98.97	1.010	-0.15	0.491	0.603
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	6	2437	11.75	12.50	1.189	98.97	1.010	-0.01	0.480	0.576
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	12	2467	11.75	12.50	1.189	98.97	1.010	-0.12	0.728	0.874
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	13	2472	11.95	12.50	1.135	98.97	1.010	-0.1	0.513	0.588
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(3)	2	1	2412	11.95	12.50	1.135	93.46	1.070	0.05	0.097	0.118
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(4)	2	1	2412	11.55	12.50	1.245	93.46	1.070	0.05	0.191	0.254
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(3)	2	1	2412	11.95	12.50	1.135	93.46	1.070	-0.05	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(4)	2	1	2412	11.55	12.50	1.245	93.46	1.070	-0.05	0.034	0.045
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(3)	2	1	2412	11.95	12.50	1.135	93.46	1.070	0.05	0.075	0.091
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(4)	2	1	2412	11.55	12.50	1.245	93.46	1.070	0.05	0.432	0.575
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	2	1	2412	11.95	12.50	1.135	93.46	1.070	0.1	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	2	1	2412	11.55	12.50	1.245	93.46	1.070	0.1	0.502	0.668
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	2	6	2437	11.85	12.50	1.161	93.46	1.070	-0.08	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	2	6	2437	11.55	12.50	1.245	93.46	1.070	-0.08	0.471	0.627
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	2	11	2462	11.65	12.50	1.216	93.46	1.070	-0.15	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	2	11	2462	11.75	12.50	1.189	93.46	1.070	-0.15	0.645	0.820
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	2	12	2467	11.55	12.50	1.245	93.46	1.070	-0.05	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	2	12	2467	11.55	12.50	1.245	93.46	1.070	-0.05	0.538	0.716
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	2	13	2472	11.95	12.50	1.135	93.46	1.070	0.11	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	2	13	2472	11.55	12.50	1.245	93.46	1.070	0.11	0.474	0.631



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	1	2412	9.85	10.00	1.035	98.85	1.012	-0.15	0.067	0.070
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	6	2437	9.75	10.00	1.059	98.85	1.012	0.1	0.071	0.076
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	11	2462	9.65	10.00	1.084	98.85	1.012	-0.11	0.108	0.118
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	12	2467	9.85	10.00	1.035	98.85	1.012	-0.11	0.087	0.091
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	13	2472	9.75	10.00	1.059	98.85	1.012	-0.16	0.087	0.093
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	3/4	1	2412	9.85	10.00	1.035	98.85	1.012	-0.12	0.009	0.009
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	3/4	1	2412	9.85	10.00	1.035	98.85	1.012	-0.16	0.056	0.059
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	3/4	1	2412	9.85	10.00	1.035	98.85	1.012	-0.14	0.005	0.005
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	3/4	11	2462	9.95	10.00	1.012	98.97	1.010	-0.02	0.153	0.156
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	3/4	11	2462	9.95	10.00	1.012	98.97	1.010	0.09	0.177	0.181
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	3/4	11	2462	9.95	10.00	1.012	98.97	1.010	-0.01	0.330	0.337
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3/4	11	2462	9.95	10.00	1.012	98.97	1.010	-0.1	0.369	0.377
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3/4	1	2412	9.85	10.00	1.035	98.97	1.010	-0.15	0.449	0.469
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3/4	6	2437	9.85	10.00	1.035	98.97	1.010	-0.11	0.340	0.355
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3/4	12	2467	9.85	10.00	1.035	98.97	1.010	-0.16	0.372	0.389
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3/4	13	2472	9.85	10.00	1.035	98.97	1.010	-0.06	0.366	0.383
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(3)	3/4	11	2462	9.85	10.00	1.035	93.46	1.070	0.11	0.092	0.102
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 3+4(4)	3/4	11	2462	9.95	10.00	1.012	93.46	1.070	0.11	0.149	0.161
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(3)	3/4	11	2462	9.85	10.00	1.035	93.46	1.070	-0.11	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 3+4(4)	3/4	11	2462	9.95	10.00	1.012	93.46	1.070	-0.11	0.170	0.184
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(3)	3/4	11	2462	9.85	10.00	1.035	93.46	1.070	0.12	0.070	0.078
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3+4(4)	3/4	11	2462	9.95	10.00	1.012	93.46	1.070	0.12	0.331	0.358
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	3/4	11	2462	9.85	10.00	1.035	93.46	1.070	-0.07	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	3/4	11	2462	9.95	10.00	1.012	93.46	1.070	-0.07	0.353	0.382
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	3/4	1	2412	9.85	10.00	1.035	93.46	1.070	-0.08	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	3/4	1	2412	9.85	10.00	1.035	93.46	1.070	-0.08	0.332	0.368
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	3/4	6	2437	9.55	10.00	1.109	93.46	1.070	-0.18	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	3/4	6	2437	9.55	10.00	1.109	93.46	1.070	-0.18	0.321	0.381
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	3/4	12	2467	9.75	10.00	1.059	93.46	1.070	-0.02	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	3/4	12	2467	9.75	10.00	1.059	93.46	1.070	-0.02	0.414	0.469
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(3)	3/4	13	2472	9.95	10.00	1.012	93.46	1.070	-0.09	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 3+4(4)	3/4	13	2472	9.55	10.00	1.109	93.46	1.070	-0.09	0.313	0.371



FCC SAR TEST REPORT

Report No. : FA2D0208-07D

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
100	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	50	5250	13.55	14.50	1.245	87.95	1.137	-0.18	0.566	0.801
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	50	5250	14.20	14.50	1.072	87.95	1.137	-0.18	0.174	0.212
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	58	5290	13.95	14.50	1.135	91.94	1.088	-0.18	0.542	0.669
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	58	5290	14.40	14.50	1.023	91.94	1.088	-0.18	0.152	0.169
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1/2	50	5250	13.55	14.50	1.245	87.95	1.137	0.18	0.079	0.112
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1/2	50	5250	14.20	14.50	1.072	87.95	1.137	0.18	0.213	0.260
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1/2	50	5250	13.55	14.50	1.245	87.95	1.137	0.19	0.319	0.451
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1/2	50	5250	14.20	14.50	1.072	87.95	1.137	0.19	0.462	0.563
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1/2	50	5250	13.55	14.50	1.245	87.95	1.137	0.05	0.059	0.083
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1/2	50	5250	14.20	14.50	1.072	87.95	1.137	0.05	0.436	0.531
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.13	0.209	0.238
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.13	0.076	0.086
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.1	0.034	0.039
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.1	0.075	0.085
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.16	0.137	0.156
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	0.16	0.180	0.205
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	-0.09	0.019	0.022	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	3/4	50	5250	10.50	10.50	1.000	87.95	1.137	-0.09	0.169	0.192	
101	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	114	5570	14.65	15.00	1.084	87.95	1.137	-0.06	0.572	0.705
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	114	5570	14.90	15.00	1.023	87.95	1.137	-0.06	0.206	0.240
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1/2	114	5570	14.65	15.00	1.084	87.95	1.137	-0.03	0.052	0.064
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1/2	114	5570	14.90	15.00	1.023	87.95	1.137	-0.03	0.207	0.241
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1/2	114	5570	14.65	15.00	1.084	87.95	1.137	0.15	0.330	0.407
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1/2	114	5570	14.90	15.00	1.023	87.95	1.137	0.15	0.376	0.437
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1/2	114	5570	14.65	15.00	1.084	87.95	1.137	-0.09	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1/2	114	5570	14.90	15.00	1.023	87.95	1.137	-0.09	0.367	0.427
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	114	5570	11.00	11.00	1.000	87.95	1.137	-0.12	0.208	0.236
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	114	5570	10.50	11.00	1.122	87.95	1.137	-0.12	0.083	0.106
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	3/4	114	5570	11.00	11.00	1.000	87.95	1.137	0.05	0.018	0.020
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	3/4	114	5570	10.50	11.00	1.122	87.95	1.137	0.05	0.124	0.158
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	3/4	114	5570	11.00	11.00	1.000	87.95	1.137	0.01	0.144	0.164
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	3/4	114	5570	10.50	11.00	1.122	87.95	1.137	0.01	0.181	0.231
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	3/4	114	5570	11.00	11.00	1.000	87.95	1.137	-0.14	0.000	0.000
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	3/4	114	5570	10.50	11.00	1.122	87.95	1.137	-0.14	0.165	0.210



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
102	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	155	5775	14.95	15.50	1.135	91.94	1.088	-0.02	0.726	0.897
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	155	5775	14.50	15.50	1.259	91.94	1.088	-0.02	0.236	0.323
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	151	5755	14.65	15.50	1.216	96.79	1.033	-0.02	0.708	0.889
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	151	5755	14.20	15.50	1.349	96.79	1.033	-0.02	0.214	0.298
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	155	5775	14.95	15.50	1.135	91.94	1.088	-0.09	0.143	0.177
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	155	5775	14.50	15.50	1.259	91.94	1.088	-0.09	0.250	0.342
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	155	5775	14.95	15.50	1.135	91.94	1.088	-0.09	0.405	0.500
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	155	5775	14.50	15.50	1.259	91.94	1.088	-0.09	0.402	0.551
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	155	5775	14.95	15.50	1.135	91.94	1.088	0.03	0.066	0.082
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	155	5775	14.50	15.50	1.259	91.94	1.088	0.03	0.372	0.510
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	155	5775	14.95	15.00	1.012	91.94	1.088	-0.02	0.726	0.799
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	155	5775	14.50	15.00	1.122	91.94	1.088	-0.02	0.236	0.288
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	151	5755	14.65	15.00	1.084	96.79	1.033	-0.02	0.708	0.793
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	151	5755	14.20	15.00	1.202	96.79	1.033	-0.02	0.214	0.266
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	155	5775	14.95	15.00	1.012	91.94	1.088	-0.09	0.143	0.157
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	155	5775	14.50	15.00	1.122	91.94	1.088	-0.09	0.250	0.305
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	155	5775	14.95	15.00	1.012	91.94	1.088	-0.09	0.405	0.446
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	155	5775	14.50	15.00	1.122	91.94	1.088	-0.09	0.402	0.491
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	155	5775	14.95	15.00	1.012	91.94	1.088	0.03	0.066	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	155	5775	14.50	15.00	1.122	91.94	1.088	0.03	0.372	0.454
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	155	5775	10.85	11.00	1.035	91.94	1.088	-0.11	0.197	0.222
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	155	5775	10.60	11.00	1.096	91.94	1.088	-0.11	0.090	0.107
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	3/4	155	5775	10.85	11.00	1.035	91.94	1.088	-0.18	0.054	0.061
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	3/4	155	5775	10.60	11.00	1.096	91.94	1.088	-0.18	0.092	0.110
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	3/4	155	5775	10.85	11.00	1.035	91.94	1.088	0.17	0.135	0.152
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	3/4	155	5775	10.60	11.00	1.096	91.94	1.088	0.17	0.126	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	3/4	155	5775	10.85	11.00	1.035	91.94	1.088	0.01	0.018	0.020
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	3/4	155	5775	10.60	11.00	1.096	91.94	1.088	0.01	0.131	0.156
103	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	-0.17	0.824	0.948
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	-0.17	0.314	0.410
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	171	5855	16.05	16.50	1.109	91.94	1.088	-0.06	0.766	0.924
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	171	5855	16.50	16.50	1.000	91.94	1.088	-0.06	0.234	0.255
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	0.13	0.163	0.187
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	0.13	0.358	0.467
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	0.15	0.681	0.783
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	0.15	0.440	0.574
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	0.13	0.088	0.101
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	0.13	0.495	0.646
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	163	5815	10.75	11.00	1.059	87.95	1.137	0.05	0.196	0.236
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	163	5815	10.40	11.00	1.148	87.95	1.137	0.05	0.097	0.127
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	3/4	163	5815	10.75	11.00	1.059	87.95	1.137	0.1	0.053	0.064
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	3/4	163	5815	10.40	11.00	1.148	87.95	1.137	0.1	0.098	0.128
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	3/4	163	5815	10.75	11.00	1.059	87.95	1.137	-0.11	0.159	0.191
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	3/4	163	5815	10.40	11.00	1.148	87.95	1.137	-0.11	0.138	0.180
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	3/4	163	5815	10.75	11.00	1.059	87.95	1.137	0.13	0.019	0.023
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	3/4	163	5815	10.40	11.00	1.148	87.95	1.137	0.13	0.138	0.180



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)	Tune-up Scaling Factor	Measured APD (W/m ²)	Reported APD (W/m ²)
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	47	6185	12.30	12.50	1.047	86.3	1.159	0.03	0.245	0.297	1.5	1.820
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	47	6185	12.50	12.50	1.000	86.3	1.159	0.03	0.058	0.067	0.447	0.518
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	15	6025	12.40	12.50	1.023	86.3	1.159	0.01	0.366	0.434	2.33	2.763
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	15	6025	12.30	12.50	1.047	86.3	1.159	0.01	0.094	0.114	0.69	0.837
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	111	6505	11.20	11.50	1.072	86.3	1.159	0.07	0.161	0.200	0.903	1.121
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	111	6505	11.50	11.50	1.000	86.3	1.159	0.07	0.043	0.050	0.254	0.294
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	143	6665	10.40	10.50	1.023	86.3	1.159	0.04	0.113	0.134	0.669	0.793
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	143	6665	9.70	10.50	1.202	86.3	1.159	0.04	0.001	0.001	0.001	0.001
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	207	6985	8.60	9.00	1.096	86.3	1.159	-0.08	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	207	6985	8.90	9.00	1.023	86.3	1.159	-0.08	0.023	0.027	0.088	0.104
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1/2	47	6185	12.30	12.50	1.047	86.3	1.159	0.05	0.059	0.072	0.258	0.313
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1/2	47	6185	12.50	12.50	1.000	86.3	1.159	0.05	0.087	0.101	0.654	0.758
104	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1/2	47	6185	12.30	12.50	1.047	86.3	1.159	-0.19	0.161	0.195	1.12	1.359
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1/2	47	6185	12.50	12.50	1.000	86.3	1.159	-0.19	0.167	0.194	0.853	0.989
104	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1/2	47	6185	12.30	12.50	1.047	86.3	1.159	-0.06	0.040	0.049	0.216	0.262
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1/2	47	6185	12.50	12.50	1.000	86.3	1.159	-0.06	0.143	0.166	0.919	1.065
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	111	6505	11.20	11.50	1.072	86.3	1.159	0.07	0.161	0.200	0.903	1.121
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	111	6505	11.50	11.50	1.000	86.3	1.159	0.07	0.043	0.050	0.254	0.294
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	15	6025	10.55	11.00	1.109	86.3	1.159	0.07	0.181	0.233	1.48	1.903
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	15	6025	10.65	11.00	1.084	86.3	1.159	0.07	0.040	0.050	0.264	0.332
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	47	6185	10.40	11.00	1.148	86.3	1.159	0.03	0.172	0.229	1.01	1.344
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	47	6185	11.00	11.00	1.000	86.3	1.159	0.03	0.032	0.037	0.221	0.256
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	143	6665	10.40	10.50	1.023	86.3	1.159	0.04	0.113	0.134	0.669	0.793
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	143	6665	9.70	10.50	1.202	86.3	1.159	0.04	0.001	0.001	0.001	0.001
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	3/4	207	6985	8.60	9.00	1.096	86.3	1.159	-0.08	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	3/4	207	6985	8.90	9.00	1.023	86.3	1.159	-0.08	0.023	0.027	0.088	0.104
104	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(3)	3/4	111	6505	11.20	11.50	1.072	86.3	1.159	0.01	0.048	0.060	0.174	0.216
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(4)	3/4	111	6505	11.50	11.50	1.000	86.3	1.159	0.01	0.001	0.001	0.001	0.001
104	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	3/4	111	6505	11.20	11.50	1.072	86.3	1.159	0.03	0.104	0.129	0.674	0.837
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	3/4	111	6505	11.50	11.50	1.000	86.3	1.159	0.03	0.103	0.119	0.545	0.632
104	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(3)	3/4	111	6505	11.20	11.50	1.072	86.3	1.159	-0.08	0.014	0.017	0.045	0.056
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(4)	3/4	111	6505	11.50	11.50	1.000	86.3	1.159	-0.08	0.051	0.059	0.252	0.292



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)	Tune-up Scaling Factor
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	0	2402	8.70	9.00	1.072	76.86	1.084	-0.14	0.050	0.058
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	39	2441	8.40	9.00	1.148	76.86	1.084	0.19	0.066	0.082
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	78	2480	8.60	9.00	1.096	76.86	1.084	-0.13	0.047	0.056
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	1	0	2402	8.70	9.00	1.072	76.86	1.084	0.15	0.007	0.008
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	1	0	2402	8.70	9.00	1.072	76.86	1.084	-0.1	0.046	0.053
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	1	0	2402	8.70	9.00	1.072	76.86	1.084	0.15	0.004	0.005
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	1	39	2441	9.00	9.00	1.000	76.86	1.084	-0.05	0.092	0.100
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	1	39	2441	9.00	9.00	1.000	76.86	1.084	-0.07	0.090	0.098
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	39	2441	9.00	9.00	1.000	76.86	1.084	-0.19	0.287	0.311
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	39	2441	9.00	9.00	1.000	76.86	1.084	-0.14	0.314	0.340
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	0	2402	8.40	9.00	1.148	76.86	1.084	-0.14	0.224	0.279
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	78	2480	8.50	9.00	1.122	76.86	1.084	-0.15	0.204	0.248
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3+4(3)	1	39	2441	8.44	9.00	1.138	77.07	1.081	0.04	0.049	0.060
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3+4(4)	1	39	2441	8.86	9.00	1.033	77.07	1.081	0.04	0.090	0.100
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3+4(3)	1	39	2441	8.44	9.00	1.138	77.07	1.081	-0.09	0.001	0.001
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3+4(4)	1	39	2441	8.86	9.00	1.033	77.07	1.081	-0.09	0.145	0.162
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3+4(3)	1	39	2441	8.44	9.00	1.138	77.07	1.081	-0.06	0.037	0.046
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3+4(4)	1	39	2441	8.86	9.00	1.033	77.07	1.081	-0.06	0.308	0.344
105	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(3)	1	39	2441	8.44	9.00	1.138	77.07	1.081	-0.15	0.001	0.001
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(4)	1	39	2441	8.86	9.00	1.033	77.07	1.081	-0.15	0.391	0.437
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(3)	1	0	2402	7.49	9.00	1.416	77.07	1.081	-0.13	0.003	0.005
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(4)	1	0	2402	8.51	9.00	1.119	77.07	1.081	-0.13	0.216	0.261
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(3)	1	78	2480	8.67	9.00	1.079	77.07	1.081	-0.19	0.005	0.006
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(4)	1	78	2480	7.69	9.00	1.352	77.07	1.081	-0.19	0.005	0.007



14.2 Hotspot SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.04	0.141	0.143
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.09	0.138	0.140
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.07	0.269	0.272
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	0.07	0.002	0.002
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.07	0.020	0.020
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	1	2412	16.75	17.00	1.059	98.85	1.012	-0.07	0.191	0.205
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	11	2462	16.85	17.00	1.035	98.85	1.012	-0.14	0.319	0.334
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	12	2467	16.85	17.00	1.035	98.85	1.012	-0.12	0.268	0.281
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7	13	2472	17.00	17.00	1.000	98.85	1.012	-0.11	0.276	0.279
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.08	0.307	0.314
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.14	0.261	0.267
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.07	0.008	0.008
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.02	0.054	0.055
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.07	0.601	0.614
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	1	2412	16.75	17.00	1.059	98.97	1.010	-0.08	0.493	0.527
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	6	2437	16.55	17.00	1.109	98.97	1.010	-0.06	0.495	0.555
106	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	12	2467	16.85	17.00	1.035	98.97	1.010	-0.11	0.666	0.696
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	13	2472	16.95	17.00	1.012	98.97	1.010	-0.09	0.558	0.570
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.06	0.143	0.162
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.06	0.286	0.317
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.03	0.150	0.170
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.03	0.239	0.265
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.03	0.267	0.303
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.03	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.06	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.06	0.084	0.093
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	0.01	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	0.01	0.582	0.645
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	7	1	2412	16.75	17.00	1.059	93.46	1.070	-0.11	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	7	1	2412	16.55	17.00	1.109	93.46	1.070	-0.11	0.476	0.565
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	7	6	2437	16.85	17.00	1.035	93.46	1.070	-0.17	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	7	6	2437	16.65	17.00	1.084	93.46	1.070	-0.17	0.485	0.563

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	-0.17	0.070	0.071
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	-0.19	0.077	0.078
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	-0.09	0.127	0.129
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	8	1	2412	14.25	14.50	1.059	98.85	1.012	-0.1	0.096	0.103
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	8	11	2462	14.25	14.50	1.059	98.85	1.012	-0.11	0.148	0.159
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	8	12	2467	14.15	14.50	1.084	98.85	1.012	-0.08	0.137	0.150
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	8	13	2472	14.45	14.50	1.012	98.85	1.012	-0.03	0.146	0.149
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	0.16	0.008	0.008
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	-0.18	0.149	0.150
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	0.12	0.121	0.122
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	-0.18	0.038	0.038
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	-0.03	0.277	0.280
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	8	6	2437	14.45	14.50	1.012	98.97	1.010	-0.03	0.297	0.303
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	8	11	2462	14.15	14.50	1.084	98.97	1.010	-0.04	0.305	0.334
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	8	12	2467	14.15	14.50	1.084	98.97	1.010	-0.04	0.368	0.403
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	8	13	2472	14.15	14.50	1.084	98.97	1.010	-0.04	0.293	0.321
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	-0.04	0.062	0.069
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	-0.04	0.154	0.167
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	0.14	0.076	0.084
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	0.14	0.122	0.132
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	-0.12	0.126	0.140
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	-0.12	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	-0.16	0.045	0.050
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	-0.16	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	-0.01	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	-0.01	0.280	0.303
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	8	1	2412	14.45	14.50	1.012	93.46	1.070	-0.06	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	8	1	2412	14.05	14.50	1.109	93.46	1.070	-0.06	0.260	0.309
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	8	11	2462	14.35	14.50	1.035	93.46	1.070	-0.03	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	8	11	2462	14.05	14.50	1.109	93.46	1.070	-0.03	0.293	0.348
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(3)	8	12	2467	14.35	14.50	1.035	93.46	1.070	-0.02	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 3+4(4)	8	12	2467	14.15	14.50	1.084	93.46	1.070	-0.02	0.347	0.402

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	7/8/9	42	5210	14.55	15.00	1.109	91.94	1.088	-0.05	0.109	0.132
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	7/8/9	42	5210	15.00	15.00	1.000	91.94	1.088	-0.05	0.113	0.123
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	7/8/9	42	5210	14.55	15.00	1.109	91.94	1.088	-0.09	0.086	0.104
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	7/8/9	42	5210	15.00	15.00	1.000	91.94	1.088	-0.09	0.109	0.119
107	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(3)	7/8/9	42	5210	14.55	15.00	1.109	91.94	1.088	-0.09	0.114	0.138
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(4)	7/8/9	42	5210	15.00	15.00	1.000	91.94	1.088	-0.09	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(3)	7/8/9	42	5210	14.55	15.00	1.109	91.94	1.088	-0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(4)	7/8/9	42	5210	15.00	15.00	1.000	91.94	1.088	-0.1	0.163	0.177
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(3)	7/8/9	42	5210	14.55	15.00	1.109	91.94	1.088	-0.08	0.032	0.039
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(4)	7/8/9	42	5210	15.00	15.00	1.000	91.94	1.088	-0.08	0.133	0.145
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	7	155	5775	17.90	18.00	1.023	87.8	1.139	-0.04	0.271	0.316
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	7	155	5775	17.70	18.00	1.072	87.8	1.139	-0.04	0.159	0.194
108	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	7	155	5775	17.90	18.00	1.023	87.8	1.139	-0.08	0.167	0.195
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	7	155	5775	17.70	18.00	1.072	87.8	1.139	-0.08	0.380	0.464
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(3)	7	155	5775	17.90	18.00	1.023	87.8	1.139	-0.07	0.341	0.397
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(4)	7	155	5775	17.70	18.00	1.072	87.8	1.139	-0.07	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(3)	7	155	5775	17.90	18.00	1.023	87.8	1.139	0.16	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(4)	7	155	5775	17.70	18.00	1.072	87.8	1.139	0.16	0.249	0.304
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(3)	7	155	5775	17.90	18.00	1.023	87.8	1.139	0.04	0.078	0.091
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(4)	7	155	5775	17.70	18.00	1.072	87.8	1.139	0.04	0.366	0.447
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	8/9	155	5775	14.95	15.00	1.012	87.8	1.139	0.04	0.116	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	8/9	155	5775	14.50	15.00	1.122	87.8	1.139	0.04	0.072	0.092
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	8/9	155	5775	14.95	15.00	1.012	87.8	1.139	-0.04	0.103	0.119
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	8/9	155	5775	14.50	15.00	1.122	87.8	1.139	-0.04	0.250	0.319
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(3)	8/9	155	5775	14.95	15.00	1.012	87.8	1.139	-0.04	0.133	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 3+4(4)	8/9	155	5775	14.50	15.00	1.122	87.8	1.139	-0.04	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(3)	8/9	155	5775	14.95	15.00	1.012	87.8	1.139	0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 3+4(4)	8/9	155	5775	14.50	15.00	1.122	87.8	1.139	0.05	0.113	0.144
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(3)	8/9	155	5775	14.95	15.00	1.012	87.8	1.139	0.06	0.029	0.033
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 3+4(4)	8/9	155	5775	14.50	15.00	1.122	87.8	1.139	0.06	0.208	0.266



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	Bluetooth	1Mbps	Front	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	0.1	0.040	0.045
	Bluetooth	1Mbps	Back	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	-0.12	0.041	0.046
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	-0.15	0.068	0.076
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	3/4	39	2441	14.50	15.00	1.122	76.86	1.084	-0.18	0.130	0.158
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	3/4	78	2480	14.70	15.00	1.072	76.86	1.084	-0.04	0.125	0.145
	Bluetooth	1Mbps	Right Side	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	-0.14	0.004	0.004
	Bluetooth	1Mbps	Front	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.05	0.167	0.181
	Bluetooth	1Mbps	Back	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.15	0.140	0.152
	Bluetooth	1Mbps	Left Side	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.16	0.041	0.044
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.04	0.309	0.335
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	3/4	39	2441	14.76	15.00	1.057	76.86	1.084	-0.02	0.193	0.221
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	3/4	78	2480	14.50	15.00	1.122	76.86	1.084	-0.04	0.245	0.298
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.15	0.074	0.090
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.15	0.147	0.167
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.09	0.076	0.092
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.09	0.100	0.113
	Bluetooth	1Mbps	Left Side	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	0.03	0.114	0.138
	Bluetooth	1Mbps	Left Side	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	0.03	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.04	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.04	0.035	0.040
	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.07	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.07	0.254	0.288
	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(3)	3/4	0	2402	14.64	15.00	1.086	77.07	1.081	0.13	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(4)	3/4	0	2402	14.55	15.00	1.109	77.07	1.081	0.13	0.302	0.362
109	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(3)	3/4	78	2480	14.54	15.00	1.112	77.07	1.081	-0.02	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3+4(4)	3/4	78	2480	14.20	15.00	1.202	77.07	1.081	-0.02	0.363	0.472



14.3 Body Worn Accessory SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	5/6	6	2437	20.95	21.00	1.012	98.85	1.012	-0.05	0.281	0.288
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	6	2437	20.95	21.00	1.012	98.85	1.012	-0.08	0.309	0.316
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	1	2412	20.75	21.00	1.059	98.85	1.012	-0.13	0.232	0.249
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	11	2462	20.85	21.00	1.035	98.85	1.012	-0.13	0.507	0.531
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	12	2467	20.75	21.00	1.059	98.85	1.012	-0.15	0.472	0.506
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	13	2472	20.95	21.00	1.012	98.85	1.012	-0.19	0.483	0.494
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	6	2437	20.95	21.00	1.012	98.97	1.010	-0.03	0.679	0.694
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	1	2412	20.75	21.00	1.059	98.97	1.010	-0.18	0.667	0.714
110	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	11	2462	20.95	21.00	1.012	98.97	1.010	-0.12	0.934	0.954
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	12	2467	20.85	21.00	1.035	98.97	1.010	-0.15	0.769	0.804
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	5/6	6	2437	20.95	21.00	1.012	98.97	1.010	-0.13	0.545	0.557
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	5/6	6	2437	20.95	21.00	1.012	93.46	1.070	-0.06	0.356	0.385
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	5/6	6	2437	20.95	21.00	1.012	93.46	1.070	-0.06	0.857	0.928
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	5/6	1	2412	20.85	21.00	1.035	93.46	1.070	-0.06	0.293	0.325
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	5/6	1	2412	20.95	21.00	1.012	93.46	1.070	-0.06	0.775	0.839
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	5/6	11	2462	19.65	20.00	1.084	93.46	1.070	-0.03	0.291	0.338
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	5/6	11	2462	19.65	20.00	1.084	93.46	1.070	-0.03	0.574	0.666
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(3)	5/6	6	2437	20.95	21.00	1.012	93.46	1.070	-0.03	0.381	0.412
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(4)	5/6	6	2437	20.95	21.00	1.012	93.46	1.070	-0.03	0.683	0.739
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.04	0.141	0.143
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	1	2412	16.75	17.00	1.059	98.85	1.012	0.12	0.101	0.108
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	11	2462	16.85	17.00	1.035	98.85	1.012	-0.11	0.157	0.164
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	12	2467	16.85	17.00	1.035	98.85	1.012	-0.07	0.148	0.155
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7	13	2472	17.00	17.00	1.000	98.85	1.012	-0.11	0.147	0.149
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7	6	2437	17.00	17.00	1.000	98.85	1.012	-0.09	0.138	0.140
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.08	0.307	0.314
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	1	2412	16.75	17.00	1.059	98.97	1.010	-0.12	0.263	0.281
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	6	2437	16.55	17.00	1.109	98.97	1.010	-0.16	0.266	0.298
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	12	2467	16.85	17.00	1.035	98.97	1.010	-0.18	0.401	0.419
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	13	2472	16.95	17.00	1.012	98.97	1.010	-0.02	0.286	0.292
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	16.95	17.00	1.012	98.97	1.010	-0.14	0.261	0.267
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.18	0.110	0.125
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.18	0.355	0.393
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	7	1	2412	16.75	17.00	1.059	93.46	1.070	-0.15	0.102	0.116
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	7	1	2412	16.55	17.00	1.109	93.46	1.070	-0.15	0.255	0.303
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	7	6	2437	16.85	17.00	1.035	93.46	1.070	-0.08	0.119	0.132
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	7	6	2437	16.65	17.00	1.084	93.46	1.070	-0.08	0.266	0.309
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(3)	7	11	2462	16.75	17.00	1.059	93.46	1.070	-0.03	0.150	0.170
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(4)	7	11	2462	16.85	17.00	1.035	93.46	1.070	-0.03	0.239	0.265



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	-0.17	0.070	0.071
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	6	2437	14.50	14.50	1.000	98.85	1.012	-0.19	0.077	0.078
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	1	2412	14.25	14.50	1.059	98.85	1.012	0.02	0.055	0.059
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	11	2462	14.25	14.50	1.059	98.85	1.012	-0.09	0.082	0.088
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	12	2467	14.15	14.50	1.084	98.85	1.012	-0.15	0.075	0.082
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	8	13	2472	14.45	14.50	1.012	98.85	1.012	-0.12	0.080	0.082
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	-0.18	0.149	0.150
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	6	2437	14.45	14.50	1.012	98.97	1.010	-0.06	0.166	0.170
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	11	2462	14.15	14.50	1.084	98.97	1.010	-0.07	0.189	0.207
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	12	2467	14.15	14.50	1.084	98.97	1.010	0.11	0.160	0.175
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	8	13	2472	14.15	14.50	1.084	98.97	1.010	-0.17	0.139	0.152
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	8	1	2412	14.50	14.50	1.000	98.97	1.010	0.12	0.121	0.122
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	-0.04	0.062	0.069
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	-0.04	0.154	0.167
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	8	1	2412	14.45	14.50	1.012	93.46	1.070	-0.08	0.054	0.058
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	8	1	2412	14.05	14.50	1.109	93.46	1.070	-0.08	0.146	0.173
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	8	11	2462	14.35	14.50	1.035	93.46	1.070	-0.09	0.077	0.085
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	8	11	2462	14.05	14.50	1.109	93.46	1.070	-0.09	0.163	0.193
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(3)	8	12	2467	14.35	14.50	1.035	93.46	1.070	-0.11	0.059	0.065
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 3+4(4)	8	12	2467	14.15	14.50	1.084	93.46	1.070	-0.11	0.195	0.226
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(3)	8	6	2437	14.35	14.50	1.035	93.46	1.070	0.14	0.076	0.084
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 3+4(4)	8	6	2437	14.45	14.50	1.012	93.46	1.070	0.14	0.122	0.132



FCC SAR TEST REPORT

Report No. : FA2D0208-07D

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
111	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.03	0.359	0.506
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.03	0.306	0.380
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	5	62	5310	15.85	17.00	1.303	96.79	1.033	-0.13	0.150	0.202
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	5	62	5310	16.30	17.00	1.175	96.79	1.033	-0.13	0.113	0.137
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.11	0.150	0.211
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.11	0.295	0.366
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.03	0.359	0.451
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.03	0.306	0.339
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	6	62	5310	15.85	17.00	1.303	96.79	1.033	-0.13	0.150	0.202
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	6	62	5310	16.30	17.00	1.175	96.79	1.033	-0.13	0.113	0.137
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.11	0.150	0.188
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.11	0.295	0.327
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.08	0.270	0.427
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.08	0.180	0.251
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	7	62	5310	15.85	17.00	1.303	96.79	1.033	-0.13	0.150	0.202
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	7	62	5310	16.30	17.00	1.175	96.79	1.033	-0.13	0.113	0.137
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.04	0.102	0.161
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.04	0.210	0.293
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.08	0.235	0.295
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.08	0.180	0.199
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	8/9	62	5310	15.85	17.00	1.303	96.79	1.033	-0.13	0.150	0.202
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	8/9	62	5310	16.30	17.00	1.175	96.79	1.033	-0.13	0.113	0.137
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.04	0.102	0.128
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.04	0.210	0.232
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	0.15	0.084	0.119
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	0.15	0.228	0.320
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	0.05	0.152	0.216
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	0.05	0.411	0.576
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	5	106	5530	16.75	17.00	1.059	91.94	1.088	-0.14	0.072	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	5	106	5530	16.70	17.00	1.072	91.94	1.088	-0.14	0.196	0.228
112	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	5	138	5690	18.25	19.50	1.334	91.94	1.088	-0.04	0.173	0.251
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	5	138	5690	18.10	19.50	1.380	91.94	1.088	-0.04	0.467	0.701
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	0.11	0.084	0.095
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	0.11	0.228	0.254
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.16	0.152	0.171
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.16	0.411	0.458
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	6/7/8/9	106	5530	16.75	17.00	1.059	91.94	1.088	0.07	0.072	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	6/7/8/9	106	5530	16.70	17.00	1.072	91.94	1.088	0.07	0.196	0.228
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	6/7/8/9	138	5690	18.25	18.50	1.059	91.94	1.088	-0.04	0.173	0.199
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	6/7/8/9	138	5690	18.10	18.50	1.096	91.94	1.088	-0.04	0.467	0.557



FCC SAR TEST REPORT

Report No. : FA2D0208-07D

Table with 17 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Power Index, 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). Rows include test data for 113 and 114 plot numbers.

Table with 19 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Power Index, 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). Rows include test data for 115 plot number.



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	Bluetooth	1Mbps	Front	10mm	Ant 3	2	78	2480	19.50	19.50	1.000	76.86	1.084	-0.09	0.214	0.232
	Bluetooth	1Mbps	Back	10mm	Ant 3	2	78	2480	19.50	19.50	1.000	76.86	1.084	-0.14	0.226	0.245
	Bluetooth	1Mbps	Back	10mm	Ant 3	2	0	2402	19.40	19.50	1.023	76.86	1.084	-0.19	0.138	0.153
	Bluetooth	1Mbps	Back	10mm	Ant 3	2	39	2441	19.30	19.50	1.047	76.86	1.084	-0.15	0.240	0.272
	Bluetooth	1Mbps	Front	10mm	Ant 4	2	78	2480	19.40	19.50	1.023	76.86	1.084	-0.19	0.383	0.425
116	Bluetooth	1Mbps	Front	10mm	Ant 4	2	0	2402	18.90	19.50	1.148	76.86	1.084	-0.18	0.514	0.640
	Bluetooth	1Mbps	Front	10mm	Ant 4	2	39	2441	19.00	19.50	1.122	76.86	1.084	-0.14	0.329	0.400
	Bluetooth	1Mbps	Back	10mm	Ant 4	2	78	2480	19.40	19.50	1.023	76.86	1.084	-0.11	0.275	0.305
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	2	78	2480	17.74	18.00	1.062	77.07	1.081	-0.07	0.163	0.187
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	2	78	2480	17.82	18.00	1.042	77.07	1.081	-0.07	0.252	0.284
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	2	0	2402	17.79	18.00	1.050	77.07	1.081	0.15	0.098	0.111
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	2	0	2402	17.17	18.00	1.211	77.07	1.081	0.15	0.269	0.352
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	2	39	2441	17.71	18.00	1.069	77.07	1.081	-0.15	0.143	0.165
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	2	39	2441	17.20	18.00	1.202	77.07	1.081	-0.15	0.339	0.441
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	2	78	2480	17.74	18.00	1.062	77.07	1.081	-0.06	0.150	0.172
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	2	78	2480	17.82	18.00	1.042	77.07	1.081	-0.06	0.201	0.226
	Bluetooth	1Mbps	Front	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	0.1	0.040	0.045
	Bluetooth	1Mbps	Back	10mm	Ant 3	3/4	0	2402	14.88	15.00	1.028	76.86	1.084	-0.12	0.041	0.046
	Bluetooth	1Mbps	Back	10mm	Ant 3	3/4	39	2441	14.50	15.00	1.122	76.86	1.084	0.17	0.069	0.084
	Bluetooth	1Mbps	Back	10mm	Ant 3	3/4	78	2480	14.70	15.00	1.072	76.86	1.084	-0.15	0.064	0.074
	Bluetooth	1Mbps	Front	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.05	0.167	0.181
	Bluetooth	1Mbps	Front	10mm	Ant 4	3/4	39	2441	14.76	15.00	1.057	76.86	1.084	-0.17	0.100	0.115
	Bluetooth	1Mbps	Front	10mm	Ant 4	3/4	78	2480	14.50	15.00	1.122	76.86	1.084	0.02	0.122	0.148
	Bluetooth	1Mbps	Back	10mm	Ant 4	3/4	0	2402	15.00	15.00	1.000	76.86	1.084	-0.15	0.140	0.152
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.02	0.073	0.089
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.02	0.155	0.176
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	3/4	0	2402	14.64	15.00	1.086	77.07	1.081	-0.05	0.034	0.040
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	3/4	0	2402	14.55	15.00	1.109	77.07	1.081	-0.05	0.117	0.140
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	3/4	78	2480	14.54	15.00	1.112	77.07	1.081	0.1	0.068	0.082
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	3/4	78	2480	14.20	15.00	1.202	77.07	1.081	0.1	0.097	0.126
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	3/4	39	2441	14.50	15.00	1.122	77.07	1.081	-0.09	0.076	0.092
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	3/4	39	2441	14.79	15.00	1.050	77.07	1.081	-0.09	0.108	0.123



14.4 Product Specific SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.19	0.904	1.274
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.19	1.030	1.279
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.13	0.399	0.562
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.13	0.513	0.637
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.03	1.070	1.508
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.03	0.001	0.001
117	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.12	1.320	1.639
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	5	62	5310	15.85	17.00	1.303	96.79	1.033	-0.12	0.602	0.810
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	5	62	5310	16.30	17.00	1.175	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(3)	5	54	5270	18.15	19.50	1.365	96.79	1.033	-0.14	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(4)	5	54	5270	18.70	19.50	1.202	96.79	1.033	-0.14	0.514	0.638
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.19	0.904	1.136
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.19	1.030	1.140
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.13	0.399	0.501
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.13	0.513	0.568
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.03	1.070	1.344
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.03	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.12	1.320	1.461
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	6	62	5310	15.85	17.00	1.303	96.79	1.033	-0.12	0.602	0.810
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	6	62	5310	16.30	17.00	1.175	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(3)	6	54	5270	18.15	19.00	1.216	96.79	1.033	-0.14	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(4)	6	54	5270	18.70	19.00	1.072	96.79	1.033	-0.14	0.514	0.569
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.03	0.715	1.131
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.03	0.685	0.955
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.15	0.282	0.446
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.15	0.376	0.524
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.14	0.598	0.946
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.14	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.14	0.001	0.002
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.14	0.963	1.342
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	7	62	5310	15.85	17.00	1.303	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	7	62	5310	16.30	17.00	1.175	96.79	1.033	-0.12	0.602	0.731
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(3)	7	54	5270	16.65	18.50	1.531	96.79	1.033	-0.11	0.001	0.002
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(4)	7	54	5270	17.20	18.50	1.349	96.79	1.033	-0.11	0.346	0.482
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.03	0.715	0.898
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.03	0.685	0.758
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.15	0.282	0.354
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.15	0.376	0.416
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.14	0.598	0.751
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.14	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.14	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.14	0.963	1.066
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(3)	8/9	62	5310	15.85	17.00	1.303	96.79	1.033	-0.12	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 3+4(4)	8/9	62	5310	16.30	17.00	1.175	96.79	1.033	-0.12	0.602	0.731
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(3)	8/9	54	5270	16.65	17.50	1.216	96.79	1.033	-0.11	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 3+4(4)	8/9	54	5270	17.20	17.50	1.072	96.79	1.033	-0.11	0.346	0.383



FCC SAR TEST REPORT

Report No. : FA2D0208-07D

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
118	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	-0.19	0.826	1.171
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	-0.19	0.670	0.939
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	-0.13	0.273	0.387
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	-0.13	0.530	0.743
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	-0.15	1.010	1.432
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	5	106	5530	16.75	17.00	1.059	91.94	1.088	-0.17	0.505	0.582
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	5	106	5530	16.70	17.00	1.072	91.94	1.088	-0.17	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	5	138	5690	18.25	19.50	1.334	91.94	1.088	-0.16	0.594	0.862
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	5	138	5690	18.10	19.50	1.380	91.94	1.088	-0.16	0.001	0.002
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	-0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	-0.1	0.923	1.294
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 3+4(3)	5	122	5610	18.35	19.50	1.303	91.94	1.088	-0.08	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 3+4(4)	5	122	5610	18.40	19.50	1.288	91.94	1.088	-0.08	0.383	0.537
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.19	0.826	0.930
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.19	0.670	0.746
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.13	0.273	0.307
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.13	0.530	0.590
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.15	1.010	1.137
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.15	0.001	0.001
WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	6/7/8/9	106	5530	16.75	17.00	1.059	91.94	1.088	-0.17	0.505	0.582	
WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	6/7/8/9	106	5530	16.70	17.00	1.072	91.94	1.088	-0.17	0.001	0.001	
WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(3)	6/7/8/9	138	5690	18.25	18.50	1.059	91.94	1.088	-0.16	0.594	0.685	
WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 3+4(4)	6/7/8/9	138	5690	18.10	18.50	1.096	91.94	1.088	-0.16	0.001	0.001	
WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.1	0.001	0.001	
WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.1	0.923	1.028	
WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 3+4(3)	6/7/8/9	122	5610	18.35	18.50	1.035	91.94	1.088	-0.08	0.001	0.001	
WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 3+4(4)	6/7/8/9	122	5610	18.40	18.50	1.023	91.94	1.088	-0.08	0.383	0.426	

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(3)	5	177	5885	20.45	20.50	1.012	93.42	1.070	-0.09	1.910	2.067
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(4)	5	177	5885	20.10	20.50	1.096	93.42	1.070	-0.09	0.961	1.127
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(3)	5	169	5845	20.25	20.50	1.059	93.42	1.070	-0.04	1.710	1.938
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(4)	5	169	5845	19.90	20.50	1.148	93.42	1.070	-0.04	0.889	1.092
119	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(3)	5	173	5865	20.25	20.50	1.059	93.42	1.070	-0.09	1.930	2.187
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 3+4(4)	5	173	5865	20.00	20.50	1.122	93.42	1.070	-0.09	0.925	1.111
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(3)	5	177	5885	20.45	20.50	1.012	93.42	1.070	-0.11	0.706	0.764
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(4)	5	177	5885	20.10	20.50	1.096	93.42	1.070	-0.11	1.830	2.147
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(3)	5	169	5845	20.25	20.50	1.059	93.42	1.070	-0.18	0.628	0.712
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(4)	5	169	5845	19.90	20.50	1.148	93.42	1.070	-0.18	1.660	2.039
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(3)	5	173	5865	20.25	20.50	1.059	93.42	1.070	-0.13	0.664	0.753
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 3+4(4)	5	173	5865	20.00	20.50	1.122	93.42	1.070	-0.13	1.730	2.077
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 3+4(3)	5	177	5885	20.45	20.50	1.012	93.42	1.070	-0.12	1.530	1.656
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 3+4(4)	5	177	5885	20.10	20.50	1.096	93.42	1.070	-0.12	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 3+4(3)	5	177	5885	20.45	20.50	1.012	93.42	1.070	-0.19	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 3+4(4)	5	177	5885	20.10	20.50	1.096	93.42	1.070	-0.19	1.620	1.901
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 3+4(3)	5	177	5885	20.45	20.50	1.012	93.42	1.070	-0.03	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 3+4(4)	5	177	5885	20.10	20.50	1.096	93.42	1.070	-0.03	1.130	1.326
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	6	163	5815	18.45	19.00	1.135	87.95	1.137	0.17	1.010	1.303
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	6	163	5815	18.25	19.00	1.189	87.95	1.137	0.17	0.489	0.661
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	6	163	5815	18.45	19.00	1.135	87.95	1.137	-0.18	0.283	0.365
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	6	163	5815	18.25	19.00	1.189	87.95	1.137	-0.18	0.747	1.009
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 3+4(3)	6	163	5815	18.45	19.00	1.135	87.95	1.137	-0.05	0.816	1.053
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 3+4(4)	6	163	5815	18.25	19.00	1.189	87.95	1.137	-0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 3+4(3)	6	163	5815	18.45	19.00	1.135	87.95	1.137	-0.14	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 3+4(4)	6	163	5815	18.25	19.00	1.189	87.95	1.137	-0.14	0.662	0.895
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 3+4(3)	6	163	5815	18.45	19.00	1.135	87.95	1.137	-0.02	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 3+4(4)	6	163	5815	18.25	19.00	1.189	87.95	1.137	-0.02	0.563	0.761
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(3)	7/8/9	163	5815	18.45	18.50	1.012	87.95	1.137	0.17	1.010	1.162
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Ant 3+4(4)	7/8/9	163	5815	18.25	18.50	1.059	87.95	1.137	0.17	0.489	0.589
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(3)	7/8/9	163	5815	18.45	18.50	1.012	87.95	1.137	-0.18	0.283	0.325
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 3+4(4)	7/8/9	163	5815	18.25	18.50	1.059	87.95	1.137	-0.18	0.747	0.900
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 3+4(3)	7/8/9	163	5815	18.45	18.50	1.012	87.95	1.137	-0.05	0.816	0.939
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Ant 3+4(4)	7/8/9	163	5815	18.25	18.50	1.059	87.95	1.137	-0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 3+4(3)	7/8/9	163	5815	18.45	18.50	1.012	87.95	1.137	-0.14	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 3+4(4)	7/8/9	163	5815	18.25	18.50	1.059	87.95	1.137	-0.14	0.662	0.797
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 3+4(3)	7/8/9	163	5815	18.45	18.50	1.012	87.95	1.137	-0.02	0.001	0.001
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Ant 3+4(4)	7/8/9	163	5815	18.25	18.50	1.059	87.95	1.137	-0.02	0.563	0.678

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)
120	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	5/6/7/8/9	111	6505	14.95	15.00	1.012	86.11	1.161	0.02	0.328	0.385	7.76	9.114
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	5/6/7/8/9	111	6505	14.85	15.00	1.035	86.11	1.161	0.02	0.123	0.148	2.94	3.533
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	5/6/7/8/9	15	6025	12.65	13.00	1.084	86.11	1.161	-0.06	0.210	0.264	4.99	6.280
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	5/6/7/8/9	15	6025	12.75	13.00	1.059	86.11	1.161	-0.06	0.120	0.148	2.87	3.530
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	5/6/7/8/9	47	6185	12.40	13.00	1.148	86.11	1.161	-0.09	0.187	0.249	4.46	5.945
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	5/6/7/8/9	47	6185	13.00	13.00	1.000	86.11	1.161	-0.09	0.139	0.161	3.29	3.820
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	5/6/7/8/9	143	6665	13.00	13.00	1.000	86.11	1.161	0.06	0.213	0.247	5.02	5.828
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	5/6/7/8/9	143	6665	12.10	13.00	1.230	86.11	1.161	0.06	0.090	0.129	2.17	3.100
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	5/6/7/8/9	207	6985	13.25	13.50	1.059	86.11	1.161	0.07	0.095	0.117	2.28	2.804
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	5/6/7/8/9	207	6985	12.85	13.50	1.161	86.11	1.161	0.07	0.043	0.058	1.02	1.375
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(3)	5/6/7/8/9	111	6505	14.95	15.00	1.012	86.11	1.161	0.06	0.092	0.108	2.23	2.619
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(4)	5/6/7/8/9	111	6505	14.85	15.00	1.035	86.11	1.161	0.06	0.088	0.106	2.05	2.464
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	0mm	Ant 3+4(3)	5/6/7/8/9	111	6505	14.95	15.00	1.012	86.11	1.161	0.03	0.204	0.240	4.94	5.802
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	0mm	Ant 3+4(4)	5/6/7/8/9	111	6505	14.85	15.00	1.035	86.11	1.161	0.03	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 3+4(3)	5/6/7/8/9	111	6505	14.95	15.00	1.012	86.11	1.161	-0.09	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 3+4(4)	5/6/7/8/9	111	6505	14.85	15.00	1.035	86.11	1.161	-0.09	0.202	0.243	4.78	5.745
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 3+4(3)	5/6/7/8/9	111	6505	14.95	15.00	1.012	86.11	1.161	-0.05	0.062	0.073	1.45	1.703
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 3+4(4)	5/6/7/8/9	111	6505	14.85	15.00	1.035	86.11	1.161	-0.05	0.097	0.117	2.29	2.752

<NFC SAR>

Plot No.	Band	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	Front	0mm	13.56	0	0.001
121	NFC	Back	0mm	13.56	-0.12	0.128
	NFC	Left Side	0mm	13.56	0.01	0.001
	NFC	Right Side	0mm	13.56	-0.15	0.001
	NFC	Top Side	0mm	13.56	0.02	0.001
	NFC	Bottom Side	0mm	13.56	-0.13	0.001

14.5 6GHz PD SAR Result

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Index	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	15	6025	5/6/7/8/9	12.65	0.0625	2.47	1.139433523	1.93	2.06
WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	15	6025	5/6/7/8/9	12.65	0.25	1.9		0.622	0.67
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	207	6985	5/6/7/8/9	13.25	0.0625	2.82	0.664337423	0.802	1.08
WLAN6GHz	802.11ax-HE160 MCS0	Front	8.59mm	Ant 3+4(3)	207	6985	5/6/7/8/9	13.25	0.25	2.42		0.485	0.623
WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	15	6025	5/6/7/8/9	12.65	0.0625	1.57	-0.85133715	1.74	2.5
WLAN6GHz	802.11ax-HE160 MCS0	Left Side	10mm	Ant 3+4(3)	15	6025	5/6/7/8/9	12.65	0.25	1.91		0.875	0.961
WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	207	6985	5/6/7/8/9	13.25	0.0625	1.84	-0.98794157	2.39	2.77
WLAN6GHz	802.11ax-HE160 MCS0	Left Side	8.59mm	Ant 3+4(3)	207	6985	5/6/7/8/9	13.25	0.25	2.31		1.06	1.13

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Index	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-HE160 MCS0	Front	2mm	Ant 3+4(3)	5	111	6505	14.95	15.00	1.012	86.11	1.161	0.0625	1.5535	0.14	1.85	3.38	2.33	4.25
	WLAN6GHz	802.11ax-HE160 MCS0	Back	2mm	Ant 3+4(3)	5	111	6505	14.95	15.00	1.012	86.11	1.161	0.0625	1.5535	0.11	2.31	4.21	2.12	3.87
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	5	111	6505	14.95	15.00	1.012	86.11	1.161	0.0625	1.5535	-0.05	2.58	4.71	3.25	5.93
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	5	15	6025	12.65	13.00	1.084	86.11	1.161	0.0625	1.5535	0.15	1.74	3.40	2.5	4.89
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	5	47	6185	12.40	13.00	1.148	86.11	1.161	0.0625	1.5535	0.03	2.13	4.41	2.37	4.91
122	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	5	143	6665	13.00	13.00	1.000	86.11	1.161	0.0625	1.5535	0	3.04	5.48	3.59	6.47
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	2mm	Ant 3+4(3)	5	207	6985	13.25	13.50	1.059	86.11	1.161	0.0625	1.5535	-0.06	2.39	4.57	2.77	5.29
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	2mm	Ant 3+4(4)	5	111	6505	14.85	15.00	1.035	86.30	1.159	0.0625	1.5535	0.04	1.62	3.02	2.22	4.14
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	2mm	Ant 3+4(4)	5	111	6505	14.85	15.00	1.035	86.30	1.159	0.0625	1.5535	0.1	1.15	2.14	1.52	2.83

14.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	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)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN5/6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	-0.17	0.824	-	0.948
	WLAN5/6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	-0.17	0.314	-	0.410
2nd	WLAN5/6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1/2	163	5815	16.45	16.50	1.012	87.95	1.137	-0.17	0.819	1.006	0.942
	WLAN5/6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1/2	163	5815	15.90	16.50	1.148	87.95	1.137	-0.17	0.305	1.030	0.398
1st	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	11	2462	20.95	21.00	1.012	98.97	1.010	-0.12	0.934	-	0.954
2nd	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	5/6	11	2462	20.95	21.00	1.012	98.97	1.010	0.08	0.911	1.025	0.931

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- The ratio is the difference in percentage between original and repeated *measured* SAR.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

Test Engineer : Mood Huang, Carter Jhuang, Jay Chien, Putzie Chen, Jocelyn Huang, Ben Huang, Lu Chen, Bevis Chang, Jimmy Lu, Elio Wei, EN Liu, Jacky Chen, Rain Chiu and Hank Chiang

15. 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/√3	1/√6	1/√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 dependance	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 dep endent 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



16. References

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- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
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