

FCC SAR TEST REPORT

FCC ID : TX2-RTL8852BE
Equipment : 11ax RTL8852BE Combo module
Brand Name : REALTEK
Model Name : RTL8852BE
Applicant : Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science
Park, Hsinchu 300, Taiwan
Standard : FCC 47 CFR Part 2 (2.1093)

Equipment: Realtek RTL8852BE tested inside of Lenovo Notebook Computer.

The product was received on Nov. 13, 2025 and testing was started from Nov. 26, 2025 and completed on Dec. 02, 2025. 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. EMC & Wireless Communications Laboratory



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History of this test report

Report No.	Version	Description	Issued Date
FA5O1609-04	01	Initial issue of report	Jan. 05, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Realtek Semiconductor Corp., 11ax RTL8852BE Combo module, RTL8852BE, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary	Highest Body Simultaneous Transmission 1g SAR SAR (W/kg)
		Body (Separation 0mm)	
		1g SAR (W/kg)	
DTS	2.4GHz WLAN	1.16	1.16
NII	5GHz WLAN	1.17	1.17
DSS	Bluetooth	0.51	1.17
Date of Testing:		2025/11/26 ~ 2025/12/02	

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW1190 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) specified in FCC 47 CFR part 2 (2.1093) 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: Daisy Peng

2. 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 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	11ax RTL8852BE Combo module
Brand Name	REALTEK
Model Name	RTL8852BE
FCC ID	TX2-RTL8852BE
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE
Remark: 1. This device is a convertible type notebook PC, and there are two usage ways: Laptop and Tablet. When the end user uses a different mode, the device will limit the maximum power according to the current mode. 2. There are two antenna vendors. RF exposure evaluation selects HTK as the main test sample, and Pulse will be spot-checked based on the worst case found in HTK.	

Host Information	
Equipment Name	Notebook Computer
Brand Name	Lenovo
Model Name	IdeaPad 5 2-in-1 15AGP11*****(*=0~9 · A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product) IdeaPad 5 2-in-1 15AHP11*****(*=0~9 · A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)
EUT Stage	Identical Prototype

Antenna Information									
1 HTK	Ant. Type	PIFA	connector	NA	2 Pulse	Ant. Type	PIFA	connector	NA
	Model No.	Main:DC330033I00 (0ACCN025014N)	Aux:DC330033I10 (0ACCN025015N)			Model No.	DC330033J00 (TZ3267D)	DC330033J10 (TZ3267E)	
	Peak Gain (dBi)					Peak Gain (dBi)			
	2400~2483.5MHz	Main:2.16 Aux:2.45	5725~5850MHz	Main:2.52 Aux:2.23		2400~2483.5MHz	Main:1.26 Aux:2.44	5725~5850MHz	Main:1.94 Aux:2.47
	5150~5250MHz	Main:0.99 Aux:2.84	5850~5895MHz	Main:1.91 Aux:2.7		5150~5250MHz	Main:2.82 Aux:1.93	5850~5895MHz	Main:1.68 Aux:1.7
	5250~5350MHz	Main:2.34 Aux:2.44	5925~7125MHz	Main:2.46 Aux:2.64		5250~5350MHz	Main:2.97 Aux:1.93	5925~7125MHz	Main:2.43 Aux:3.68
	5470~5725MHz	Main:2.31 Aux:2.36				5470~5725MHz	Main:2.76 Aux:2.47		

3.2 Sensor Triggering angle and power verification

General Note:

- The following guidance should be applied to laptops/tablets that use Hall Effect or gravity sensors to detect lid angle for the purpose of power reduction:

Step 1: With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained
 Step 2: Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps
 Step 3: Open the screen in 1 degree steps until laptop mode is reobtained
 Step 4: Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained
 Step 5: Then continue opening the screen in 10 degree steps until tablet mode is obtained
 Step 6: Power measurements should be taken at each step
 Step 7: Reverse this procedure going from tablet mode back down to closed mode

when the screen angle is from 0 degree to 360 degree (Main)									
Screen angle (degree) v.s. power	Wireless								
	Band		WLAN2.4G	WLAN5.2G	WLAN5.3G	WLAN5.5G	WLAN5.8G	WLAN5.9G	
	Lid Close	0	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby	standby
		29	standby	standby	standby	standby	standby	standby	standby
	Notebook	30	16.21	13.87	13.91	13.26	11.52	11.79	
		31	16.21	13.87	13.91	13.26	11.52	11.79	
		32	16.21	13.87	13.91	13.26	11.52	11.79	
		33	16.21	13.87	13.91	13.26	11.52	11.79	
		34	16.21	13.87	13.91	13.26	11.52	11.79	
		35	16.21	13.87	13.91	13.26	11.52	11.79	
		40	16.21	13.87	13.91	13.26	11.52	11.79	
		50	16.21	13.87	13.91	13.26	11.52	11.79	
		60	16.21	13.87	13.91	13.26	11.52	11.79	
		70	16.21	13.87	13.91	13.26	11.52	11.79	
		80	16.21	13.87	13.91	13.26	11.52	11.79	
		90	16.21	13.87	13.91	13.26	11.52	11.79	
		100	16.21	13.87	13.91	13.26	11.52	11.79	
		110	16.21	13.87	13.91	13.26	11.52	11.79	
		120	16.21	13.87	13.91	13.26	11.52	11.79	
		125	16.21	13.87	13.91	13.26	11.52	11.79	
		126	16.21	13.87	13.91	13.26	11.52	11.79	
		127	16.21	13.87	13.91	13.26	11.52	11.79	
		128	16.21	13.87	13.91	13.26	11.52	11.79	
		129	16.21	13.87	13.91	13.26	11.52	11.79	
130		16.21	13.87	13.91	13.26	11.52	11.79		
131		16.21	13.87	13.91	13.26	11.52	11.79		
132		16.21	13.87	13.91	13.26	11.52	11.79		
133		16.21	13.87	13.91	13.26	11.52	11.79		
134		16.21	13.87	13.91	13.26	11.52	11.79		
135		16.21	13.87	13.91	13.26	11.52	11.79		
140		16.21	13.87	13.91	13.26	11.52	11.79		
150		16.21	13.87	13.91	13.26	11.52	11.79		
160	16.21	13.87	13.91	13.26	11.52	11.79			
170	16.21	13.87	13.91	13.26	11.52	11.79			
180	16.21	13.87	13.91	13.26	11.52	11.79			
190	16.21	13.87	13.91	13.26	11.52	11.79			



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	Tablet	200	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
	Tent mode (Screen orientation is set to 180° and base is not horizontal)	360	13.26	10.23	10.42	11.36	9.87	9.96
		195	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96
		198	13.26	10.23	10.42	11.36	9.87	9.96
		199	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		201	13.26	10.23	10.42	11.36	9.87	9.96
		202	13.26	10.23	10.42	11.36	9.87	9.96
		203	13.26	10.23	10.42	11.36	9.87	9.96
		204	13.26	10.23	10.42	11.36	9.87	9.96
		205	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		335	13.26	10.23	10.42	11.36	9.87	9.96
		336	13.26	10.23	10.42	11.36	9.87	9.96
		337	13.26	10.23	10.42	11.36	9.87	9.96
		338	13.26	10.23	10.42	11.36	9.87	9.96
		339	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		341	13.26	10.23	10.42	11.36	9.87	9.96
		342	13.26	10.23	10.42	11.36	9.87	9.96
		343	13.26	10.23	10.42	11.36	9.87	9.96
		344	13.26	10.23	10.42	11.36	9.87	9.96
		345	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
	Stand mode (Screen orientation is	195	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96



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set to 180° and base is not horizontal)	198	13.26	10.23	10.42	11.36	9.87	9.96
	199	13.26	10.23	10.42	11.36	9.87	9.96
	200	13.26	10.23	10.42	11.36	9.87	9.96
	201	13.26	10.23	10.42	11.36	9.87	9.96
	202	13.26	10.23	10.42	11.36	9.87	9.96
	203	13.26	10.23	10.42	11.36	9.87	9.96
	204	13.26	10.23	10.42	11.36	9.87	9.96
	205	13.26	10.23	10.42	11.36	9.87	9.96
	210	13.26	10.23	10.42	11.36	9.87	9.96
	220	13.26	10.23	10.42	11.36	9.87	9.96
	230	13.26	10.23	10.42	11.36	9.87	9.96
	240	13.26	10.23	10.42	11.36	9.87	9.96
	250	13.26	10.23	10.42	11.36	9.87	9.96
	260	13.26	10.23	10.42	11.36	9.87	9.96
	270	13.26	10.23	10.42	11.36	9.87	9.96
	280	13.26	10.23	10.42	11.36	9.87	9.96
	290	13.26	10.23	10.42	11.36	9.87	9.96
	300	13.26	10.23	10.42	11.36	9.87	9.96
	310	13.26	10.23	10.42	11.36	9.87	9.96
	320	13.26	10.23	10.42	11.36	9.87	9.96
	330	13.26	10.23	10.42	11.36	9.87	9.96
	335	13.26	10.23	10.42	11.36	9.87	9.96
	336	13.26	10.23	10.42	11.36	9.87	9.96
	337	13.26	10.23	10.42	11.36	9.87	9.96
	338	13.26	10.23	10.42	11.36	9.87	9.96
	339	13.26	10.23	10.42	11.36	9.87	9.96
	340	13.26	10.23	10.42	11.36	9.87	9.96
	341	13.26	10.23	10.42	11.36	9.87	9.96
	342	13.26	10.23	10.42	11.36	9.87	9.96
	343	13.26	10.23	10.42	11.36	9.87	9.96
	344	13.26	10.23	10.42	11.36	9.87	9.96
	345	13.26	10.23	10.42	11.36	9.87	9.96
	350	13.26	10.23	10.42	11.36	9.87	9.96
Lid Close	0	standby	standby	standby	standby	standby	standby
	10	standby	standby	standby	standby	standby	standby
	20	standby	standby	standby	standby	standby	standby
	25	standby	standby	standby	standby	standby	standby
	26	standby	standby	standby	standby	standby	standby
	27	standby	standby	standby	standby	standby	standby
	28	standby	standby	standby	standby	standby	standby
	29	standby	standby	standby	standby	standby	standby
Notebook	30	16.21	13.87	13.91	13.26	11.52	11.79
	31	16.21	13.87	13.91	13.26	11.52	11.79
	32	16.21	13.87	13.91	13.26	11.52	11.79
	33	16.21	13.87	13.91	13.26	11.52	11.79
	34	16.21	13.87	13.91	13.26	11.52	11.79
	35	16.21	13.87	13.91	13.26	11.52	11.79
	40	16.21	13.87	13.91	13.26	11.52	11.79
	50	16.21	13.87	13.91	13.26	11.52	11.79
	60	16.21	13.87	13.91	13.26	11.52	11.79
	70	16.21	13.87	13.91	13.26	11.52	11.79
	80	16.21	13.87	13.91	13.26	11.52	11.79
	90	16.21	13.87	13.91	13.26	11.52	11.79
	100	16.21	13.87	13.91	13.26	11.52	11.79
	110	16.21	13.87	13.91	13.26	11.52	11.79
	120	16.21	13.87	13.91	13.26	11.52	11.79



		130	16.21	13.87	13.91	13.26	11.52	11.79
		140	16.21	13.87	13.91	13.26	11.52	11.79
		150	16.21	13.87	13.91	13.26	11.52	11.79
		160	16.21	13.87	13.91	13.26	11.52	11.79
		170	16.21	13.87	13.91	13.26	11.52	11.79
		180	16.21	13.87	13.91	13.26	11.52	11.79
		190	16.21	13.87	13.91	13.26	11.52	11.79
	Tablet	195	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96
		198	13.26	10.23	10.42	11.36	9.87	9.96
		199	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		201	13.26	10.23	10.42	11.36	9.87	9.96
		202	13.26	10.23	10.42	11.36	9.87	9.96
		203	13.26	10.23	10.42	11.36	9.87	9.96
		204	13.26	10.23	10.42	11.36	9.87	9.96
		205	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
		360	13.26	10.23	10.42	11.36	9.87	9.96



when the screen angle is from 360 degree to 0 degree (Main)								
Screen angle (degree) v.s. power	Wireless							
	Band		WLAN2.4G	WLAN5.2G	WLAN5.3G	WLAN5.5G	WLAN5.8G	WLAN5.9G
	Tablet Mode	360	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		190	13.26	10.23	10.42	11.36	9.87	9.96
	Notebook	180	16.21	13.87	13.91	13.26	11.52	11.79
		170	16.21	13.87	13.91	13.26	11.52	11.79
		160	16.21	13.87	13.91	13.26	11.52	11.79
		150	16.21	13.87	13.91	13.26	11.52	11.79
		140	16.21	13.87	13.91	13.26	11.52	11.79
		135	16.21	13.87	13.91	13.26	11.52	11.79
		134	16.21	13.87	13.91	13.26	11.52	11.79
		133	16.21	13.87	13.91	13.26	11.52	11.79
		132	16.21	13.87	13.91	13.26	11.52	11.79
		131	16.21	13.87	13.91	13.26	11.52	11.79
		130	16.21	13.87	13.91	13.26	11.52	11.79
		129	16.21	13.87	13.91	13.26	11.52	11.79
128		16.21	13.87	13.91	13.26	11.52	11.79	
127		16.21	13.87	13.91	13.26	11.52	11.79	
126		16.21	13.87	13.91	13.26	11.52	11.79	
125		16.21	13.87	13.91	13.26	11.52	11.79	
120		16.21	13.87	13.91	13.26	11.52	11.79	
110		16.21	13.87	13.91	13.26	11.52	11.79	
100		16.21	13.87	13.91	13.26	11.52	11.79	
90		16.21	13.87	13.91	13.26	11.52	11.79	
80		16.21	13.87	13.91	13.26	11.52	11.79	
70		16.21	13.87	13.91	13.26	11.52	11.79	
60		16.21	13.87	13.91	13.26	11.52	11.79	
50		16.21	13.87	13.91	13.26	11.52	11.79	
40	16.21	13.87	13.91	13.26	11.52	11.79		
35	16.21	13.87	13.91	13.26	11.52	11.79		
34	16.21	13.87	13.91	13.26	11.52	11.79		
33	16.21	13.87	13.91	13.26	11.52	11.79		
32	16.21	13.87	13.91	13.26	11.52	11.79		
31	16.21	13.87	13.91	13.26	11.52	11.79		
30	16.21	13.87	13.91	13.26	11.52	11.79		
Lid Close	29	standby	standby	standby	standby	standby	standby	
	28	standby	standby	standby	standby	standby	standby	
	27	standby	standby	standby	standby	standby	standby	



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		26	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby
	Tablet	360	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
	Stand mode (Screen orientation is set to 0° and base is horizontal)	345	13.26	10.23	10.42	11.36	9.87	9.96
		344	13.26	10.23	10.42	11.36	9.87	9.96
		343	13.26	10.23	10.42	11.36	9.87	9.96
		342	13.26	10.23	10.42	11.36	9.87	9.96
		341	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		339	13.26	10.23	10.42	11.36	9.87	9.96
		338	13.26	10.23	10.42	11.36	9.87	9.96
		337	13.26	10.23	10.42	11.36	9.87	9.96
		336	13.26	10.23	10.42	11.36	9.87	9.96
		335	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		205	13.26	10.23	10.42	11.36	9.87	9.96
		204	13.26	10.23	10.42	11.36	9.87	9.96
		203	13.26	10.23	10.42	11.36	9.87	9.96
		202	13.26	10.23	10.42	11.36	9.87	9.96
		201	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		199	13.26	10.23	10.42	11.36	9.87	9.96
		198	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		195	13.26	10.23	10.42	11.36	9.87	9.96
	Tablet	360	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
	Tent mode (Screen orientation is set to 180° and base is not horizontal)	345	13.26	10.23	10.42	11.36	9.87	9.96
		344	13.26	10.23	10.42	11.36	9.87	9.96
		343	13.26	10.23	10.42	11.36	9.87	9.96
		342	13.26	10.23	10.42	11.36	9.87	9.96
		341	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		339	13.26	10.23	10.42	11.36	9.87	9.96
		338	13.26	10.23	10.42	11.36	9.87	9.96
		337	13.26	10.23	10.42	11.36	9.87	9.96
		336	13.26	10.23	10.42	11.36	9.87	9.96
		335	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96



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		320	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		205	13.26	10.23	10.42	11.36	9.87	9.96
		204	13.26	10.23	10.42	11.36	9.87	9.96
		203	13.26	10.23	10.42	11.36	9.87	9.96
		202	13.26	10.23	10.42	11.36	9.87	9.96
		201	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		199	13.26	10.23	10.42	11.36	9.87	9.96
		198	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		195	13.26	10.23	10.42	11.36	9.87	9.96
	Tablet	360	13.26	10.23	10.42	11.36	9.87	9.96
		350	13.26	10.23	10.42	11.36	9.87	9.96
		340	13.26	10.23	10.42	11.36	9.87	9.96
		330	13.26	10.23	10.42	11.36	9.87	9.96
		320	13.26	10.23	10.42	11.36	9.87	9.96
		310	13.26	10.23	10.42	11.36	9.87	9.96
		300	13.26	10.23	10.42	11.36	9.87	9.96
		290	13.26	10.23	10.42	11.36	9.87	9.96
		280	13.26	10.23	10.42	11.36	9.87	9.96
		270	13.26	10.23	10.42	11.36	9.87	9.96
		260	13.26	10.23	10.42	11.36	9.87	9.96
		250	13.26	10.23	10.42	11.36	9.87	9.96
		240	13.26	10.23	10.42	11.36	9.87	9.96
		230	13.26	10.23	10.42	11.36	9.87	9.96
		220	13.26	10.23	10.42	11.36	9.87	9.96
		210	13.26	10.23	10.42	11.36	9.87	9.96
		205	13.26	10.23	10.42	11.36	9.87	9.96
		204	13.26	10.23	10.42	11.36	9.87	9.96
		203	13.26	10.23	10.42	11.36	9.87	9.96
		202	13.26	10.23	10.42	11.36	9.87	9.96
		201	13.26	10.23	10.42	11.36	9.87	9.96
		200	13.26	10.23	10.42	11.36	9.87	9.96
		199	13.26	10.23	10.42	11.36	9.87	9.96
		198	13.26	10.23	10.42	11.36	9.87	9.96
		197	13.26	10.23	10.42	11.36	9.87	9.96
		196	13.26	10.23	10.42	11.36	9.87	9.96
		195	13.26	10.23	10.42	11.36	9.87	9.96
		190	13.26	10.23	10.42	11.36	9.87	9.96
	Notebook	180	16.21	13.87	13.91	13.26	11.52	11.79
		170	16.21	13.87	13.91	13.26	11.52	11.79
		160	16.21	13.87	13.91	13.26	11.52	11.79
		150	16.21	13.87	13.91	13.26	11.52	11.79
		140	16.21	13.87	13.91	13.26	11.52	11.79



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		130	16.21	13.87	13.91	13.26	11.52	11.79
		120	16.21	13.87	13.91	13.26	11.52	11.79
		110	16.21	13.87	13.91	13.26	11.52	11.79
		100	16.21	13.87	13.91	13.26	11.52	11.79
		90	16.21	13.87	13.91	13.26	11.52	11.79
		80	16.21	13.87	13.91	13.26	11.52	11.79
		70	16.21	13.87	13.91	13.26	11.52	11.79
		60	16.21	13.87	13.91	13.26	11.52	11.79
		50	16.21	13.87	13.91	13.26	11.52	11.79
		40	16.21	13.87	13.91	13.26	11.52	11.79
		35	16.21	13.87	13.91	13.26	11.52	11.79
		34	16.21	13.87	13.91	13.26	11.52	11.79
		33	16.21	13.87	13.91	13.26	11.52	11.79
		32	16.21	13.87	13.91	13.26	11.52	11.79
		31	16.21	13.87	13.91	13.26	11.52	11.79
		30	16.21	13.87	13.91	13.26	11.52	11.79
	Lid Close	29	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby



when the screen angle is from 0 degree to 360 degree (Aux)									
Screen angle (degree) v.s. power	Wireless								
	Band		WLAN2.4G	WLAN5.2G	WLAN5.3G	WLAN5.5G	WLAN5.8G	WLAN5.9G	
	Lid Close	0	standby	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby	standby
		29	standby	standby	standby	standby	standby	standby	standby
	Notebook	30	15.23	14.31	14.42	12.61	12.97	13.05	
		31	15.23	14.31	14.42	12.61	12.97	13.05	
		32	15.23	14.31	14.42	12.61	12.97	13.05	
		33	15.23	14.31	14.42	12.61	12.97	13.05	
		34	15.23	14.31	14.42	12.61	12.97	13.05	
		35	15.23	14.31	14.42	12.61	12.97	13.05	
		40	15.23	14.31	14.42	12.61	12.97	13.05	
		50	15.23	14.31	14.42	12.61	12.97	13.05	
		60	15.23	14.31	14.42	12.61	12.97	13.05	
		70	15.23	14.31	14.42	12.61	12.97	13.05	
		80	15.23	14.31	14.42	12.61	12.97	13.05	
		90	15.23	14.31	14.42	12.61	12.97	13.05	
		100	15.23	14.31	14.42	12.61	12.97	13.05	
		110	15.23	14.31	14.42	12.61	12.97	13.05	
		120	15.23	14.31	14.42	12.61	12.97	13.05	
		125	15.23	14.31	14.42	12.61	12.97	13.05	
		126	15.23	14.31	14.42	12.61	12.97	13.05	
		127	15.23	14.31	14.42	12.61	12.97	13.05	
		128	15.23	14.31	14.42	12.61	12.97	13.05	
		129	15.23	14.31	14.42	12.61	12.97	13.05	
		130	15.23	14.31	14.42	12.61	12.97	13.05	
		131	15.23	14.31	14.42	12.61	12.97	13.05	
132		15.23	14.31	14.42	12.61	12.97	13.05		
133		15.23	14.31	14.42	12.61	12.97	13.05		
134		15.23	14.31	14.42	12.61	12.97	13.05		
135		15.23	14.31	14.42	12.61	12.97	13.05		
140		15.23	14.31	14.42	12.61	12.97	13.05		
150		15.23	14.31	14.42	12.61	12.97	13.05		
160		15.23	14.31	14.42	12.61	12.97	13.05		
170		15.23	14.31	14.42	12.61	12.97	13.05		
180		15.23	14.31	14.42	12.61	12.97	13.05		
190	15.23	14.31	14.42	12.61	12.97	13.05			
Tablet	200	12.26	9.84	9.56	9.91	9.64	9.76		
	210	12.26	9.84	9.56	9.91	9.64	9.76		
	220	12.26	9.84	9.56	9.91	9.64	9.76		
	230	12.26	9.84	9.56	9.91	9.64	9.76		
	240	12.26	9.84	9.56	9.91	9.64	9.76		
	250	12.26	9.84	9.56	9.91	9.64	9.76		
	260	12.26	9.84	9.56	9.91	9.64	9.76		
	270	12.26	9.84	9.56	9.91	9.64	9.76		
	280	12.26	9.84	9.56	9.91	9.64	9.76		
	290	12.26	9.84	9.56	9.91	9.64	9.76		
	300	12.26	9.84	9.56	9.91	9.64	9.76		
	310	12.26	9.84	9.56	9.91	9.64	9.76		



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		320	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
		360	12.26	9.84	9.56	9.91	9.64	9.76
	Tent mode (Screen orientation is set to 180° and base is not horizontal)	195	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		335	12.26	9.84	9.56	9.91	9.64	9.76
		336	12.26	9.84	9.56	9.91	9.64	9.76
		337	12.26	9.84	9.56	9.91	9.64	9.76
		338	12.26	9.84	9.56	9.91	9.64	9.76
		339	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		341	12.26	9.84	9.56	9.91	9.64	9.76
		342	12.26	9.84	9.56	9.91	9.64	9.76
		343	12.26	9.84	9.56	9.91	9.64	9.76
		344	12.26	9.84	9.56	9.91	9.64	9.76
		345	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
	Stand mode (Screen orientation is set to 180° and base is not horizontal)	195	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76



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		250	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		335	12.26	9.84	9.56	9.91	9.64	9.76
		336	12.26	9.84	9.56	9.91	9.64	9.76
		337	12.26	9.84	9.56	9.91	9.64	9.76
		338	12.26	9.84	9.56	9.91	9.64	9.76
		339	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		341	12.26	9.84	9.56	9.91	9.64	9.76
		342	12.26	9.84	9.56	9.91	9.64	9.76
		343	12.26	9.84	9.56	9.91	9.64	9.76
		344	12.26	9.84	9.56	9.91	9.64	9.76
		345	12.26	9.84	9.56	9.91	9.64	9.76
	Lid Close	350	12.26	9.84	9.56	9.91	9.64	9.76
		0	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby
		29	standby	standby	standby	standby	standby	standby
	Notebook	30	15.23	14.31	14.42	12.61	12.97	13.05
		31	15.23	14.31	14.42	12.61	12.97	13.05
		32	15.23	14.31	14.42	12.61	12.97	13.05
		33	15.23	14.31	14.42	12.61	12.97	13.05
		34	15.23	14.31	14.42	12.61	12.97	13.05
		35	15.23	14.31	14.42	12.61	12.97	13.05
		40	15.23	14.31	14.42	12.61	12.97	13.05
		50	15.23	14.31	14.42	12.61	12.97	13.05
		60	15.23	14.31	14.42	12.61	12.97	13.05
		70	15.23	14.31	14.42	12.61	12.97	13.05
		80	15.23	14.31	14.42	12.61	12.97	13.05
		90	15.23	14.31	14.42	12.61	12.97	13.05
		100	15.23	14.31	14.42	12.61	12.97	13.05
		110	15.23	14.31	14.42	12.61	12.97	13.05
		120	15.23	14.31	14.42	12.61	12.97	13.05
		130	15.23	14.31	14.42	12.61	12.97	13.05
		140	15.23	14.31	14.42	12.61	12.97	13.05
		150	15.23	14.31	14.42	12.61	12.97	13.05
		160	15.23	14.31	14.42	12.61	12.97	13.05
		170	15.23	14.31	14.42	12.61	12.97	13.05
		180	15.23	14.31	14.42	12.61	12.97	13.05
		190	15.23	14.31	14.42	12.61	12.97	13.05
	Tablet	195	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76



		200	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
		360	12.26	9.84	9.56	9.91	9.64	9.76

when the screen angle is from 360 degree to 0 degree (Aux)								
Screen angle (degree) v.s. power	Wireless							
	Band		WLAN2.4G	WLAN5.2G	WLAN5.3G	WLAN5.5G	WLAN5.8G	WLAN5.9G
	Tablet Mode	360	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		190	12.26	9.84	9.56	9.91	9.64	9.76
	Notebook	180	15.23	14.31	14.42	12.61	12.97	13.05
		170	15.23	14.31	14.42	12.61	12.97	13.05
		160	15.23	14.31	14.42	12.61	12.97	13.05
		150	15.23	14.31	14.42	12.61	12.97	13.05
		140	15.23	14.31	14.42	12.61	12.97	13.05
		135	15.23	14.31	14.42	12.61	12.97	13.05
		134	15.23	14.31	14.42	12.61	12.97	13.05
		133	15.23	14.31	14.42	12.61	12.97	13.05
		132	15.23	14.31	14.42	12.61	12.97	13.05
		131	15.23	14.31	14.42	12.61	12.97	13.05
		130	15.23	14.31	14.42	12.61	12.97	13.05
		129	15.23	14.31	14.42	12.61	12.97	13.05
		128	15.23	14.31	14.42	12.61	12.97	13.05
		127	15.23	14.31	14.42	12.61	12.97	13.05
		126	15.23	14.31	14.42	12.61	12.97	13.05
		125	15.23	14.31	14.42	12.61	12.97	13.05
		120	15.23	14.31	14.42	12.61	12.97	13.05
		110	15.23	14.31	14.42	12.61	12.97	13.05
		100	15.23	14.31	14.42	12.61	12.97	13.05
		90	15.23	14.31	14.42	12.61	12.97	13.05
		80	15.23	14.31	14.42	12.61	12.97	13.05
		70	15.23	14.31	14.42	12.61	12.97	13.05
		60	15.23	14.31	14.42	12.61	12.97	13.05
		50	15.23	14.31	14.42	12.61	12.97	13.05
		40	15.23	14.31	14.42	12.61	12.97	13.05
		35	15.23	14.31	14.42	12.61	12.97	13.05
		34	15.23	14.31	14.42	12.61	12.97	13.05
		33	15.23	14.31	14.42	12.61	12.97	13.05
		32	15.23	14.31	14.42	12.61	12.97	13.05
		31	15.23	14.31	14.42	12.61	12.97	13.05
		30	15.23	14.31	14.42	12.61	12.97	13.05
	Lid Close	29	standby	standby	standby	standby	standby	standby
		28	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby



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		26	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby
	Tablet	360	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
	Stand mode (Screen orientation is set to 0° and base is horizontal)	345	12.26	9.84	9.56	9.91	9.64	9.76
		344	12.26	9.84	9.56	9.91	9.64	9.76
		343	12.26	9.84	9.56	9.91	9.64	9.76
		342	12.26	9.84	9.56	9.91	9.64	9.76
		341	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		339	12.26	9.84	9.56	9.91	9.64	9.76
		338	12.26	9.84	9.56	9.91	9.64	9.76
		337	12.26	9.84	9.56	9.91	9.64	9.76
		336	12.26	9.84	9.56	9.91	9.64	9.76
		335	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		195	12.26	9.84	9.56	9.91	9.64	9.76
	Tablet	360	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
	Tent mode (Screen orientation is set to 180° and base is not horizontal)	345	12.26	9.84	9.56	9.91	9.64	9.76
		344	12.26	9.84	9.56	9.91	9.64	9.76
		343	12.26	9.84	9.56	9.91	9.64	9.76
		342	12.26	9.84	9.56	9.91	9.64	9.76
		341	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		339	12.26	9.84	9.56	9.91	9.64	9.76
		338	12.26	9.84	9.56	9.91	9.64	9.76
		337	12.26	9.84	9.56	9.91	9.64	9.76
		336	12.26	9.84	9.56	9.91	9.64	9.76
		335	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76



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		320	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		195	12.26	9.84	9.56	9.91	9.64	9.76
	Tablet	360	12.26	9.84	9.56	9.91	9.64	9.76
		350	12.26	9.84	9.56	9.91	9.64	9.76
		340	12.26	9.84	9.56	9.91	9.64	9.76
		330	12.26	9.84	9.56	9.91	9.64	9.76
		320	12.26	9.84	9.56	9.91	9.64	9.76
		310	12.26	9.84	9.56	9.91	9.64	9.76
		300	12.26	9.84	9.56	9.91	9.64	9.76
		290	12.26	9.84	9.56	9.91	9.64	9.76
		280	12.26	9.84	9.56	9.91	9.64	9.76
		270	12.26	9.84	9.56	9.91	9.64	9.76
		260	12.26	9.84	9.56	9.91	9.64	9.76
		250	12.26	9.84	9.56	9.91	9.64	9.76
		240	12.26	9.84	9.56	9.91	9.64	9.76
		230	12.26	9.84	9.56	9.91	9.64	9.76
		220	12.26	9.84	9.56	9.91	9.64	9.76
		210	12.26	9.84	9.56	9.91	9.64	9.76
		205	12.26	9.84	9.56	9.91	9.64	9.76
		204	12.26	9.84	9.56	9.91	9.64	9.76
		203	12.26	9.84	9.56	9.91	9.64	9.76
		202	12.26	9.84	9.56	9.91	9.64	9.76
		201	12.26	9.84	9.56	9.91	9.64	9.76
		200	12.26	9.84	9.56	9.91	9.64	9.76
		199	12.26	9.84	9.56	9.91	9.64	9.76
		198	12.26	9.84	9.56	9.91	9.64	9.76
		197	12.26	9.84	9.56	9.91	9.64	9.76
		196	12.26	9.84	9.56	9.91	9.64	9.76
		195	12.26	9.84	9.56	9.91	9.64	9.76
		190	12.26	9.84	9.56	9.91	9.64	9.76
	Notebook	180	15.23	14.31	14.42	12.61	12.97	13.05
		170	15.23	14.31	14.42	12.61	12.97	13.05
		160	15.23	14.31	14.42	12.61	12.97	13.05
		150	15.23	14.31	14.42	12.61	12.97	13.05
		140	15.23	14.31	14.42	12.61	12.97	13.05

		130	15.23	14.31	14.42	12.61	12.97	13.05
		120	15.23	14.31	14.42	12.61	12.97	13.05
		110	15.23	14.31	14.42	12.61	12.97	13.05
		100	15.23	14.31	14.42	12.61	12.97	13.05
		90	15.23	14.31	14.42	12.61	12.97	13.05
		80	15.23	14.31	14.42	12.61	12.97	13.05
		70	15.23	14.31	14.42	12.61	12.97	13.05
		60	15.23	14.31	14.42	12.61	12.97	13.05
		50	15.23	14.31	14.42	12.61	12.97	13.05
		40	15.23	14.31	14.42	12.61	12.97	13.05
		35	15.23	14.31	14.42	12.61	12.97	13.05
		34	15.23	14.31	14.42	12.61	12.97	13.05
		33	15.23	14.31	14.42	12.61	12.97	13.05
		32	15.23	14.31	14.42	12.61	12.97	13.05
		31	15.23	14.31	14.42	12.61	12.97	13.05
		30	15.23	14.31	14.42	12.61	12.97	13.05
	Lid Close	29	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		27	standby	standby	standby	standby	standby	standby
		26	standby	standby	standby	standby	standby	standby
		25	standby	standby	standby	standby	standby	standby
		20	standby	standby	standby	standby	standby	standby
		10	standby	standby	standby	standby	standby	standby
		0	standby	standby	standby	standby	standby	standby

4. RF Exposure Limits

4.1 Uncontrolled Environment

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

4.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

5. Specific Absorption Rate (SAR)

5.1 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.

5.2 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:

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

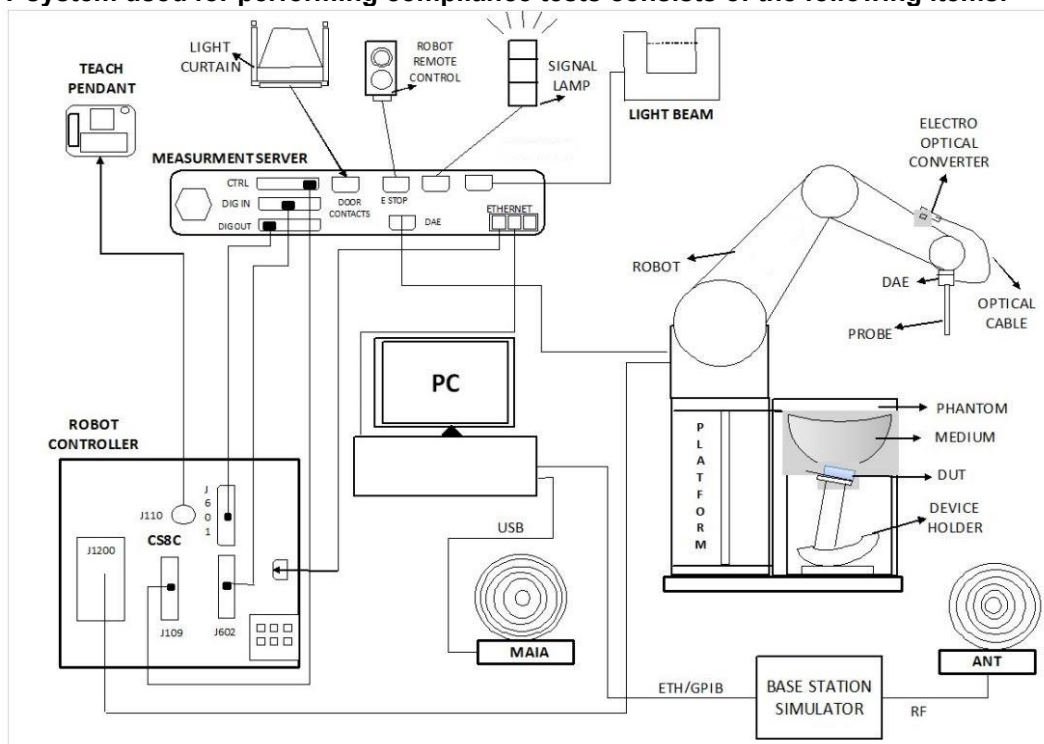
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

6. 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.

6.1 Test Site Location

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

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory				
Test Site Location	TW1190 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	SAR18-HY	SAR21-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-HY	

6.2 E-Field Probe

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

<ES3DV3 Probe>

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

<EX3DV4 Probe>

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

6.3 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

6.4 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.

6.5 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

7. 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

7.1 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

7.2 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.

7.3 Area Scan

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

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

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

7.4 Zoom Scan

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

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

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

7.5 Volume Scan Procedures

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

7.6 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.

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	2450MHz System Validation Kit	D2450V2	806	Mar. 13, 2025	Mar. 12, 2026
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 19, 2024	Apr. 17, 2026
SPEAG	Data Acquisition Electronics	DAE4	854	Sep. 09, 2025	Sep. 08, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7439	Jul. 28, 2025	Jul. 27, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1270	May. 19, 2025	May. 18, 2026
Testo	Hygro meter	608-H1	45256904	Dec. 06, 2024	Dec. 05, 2025
Testo	Hygro meter	608-H1	45142597	Jan. 09, 2025	Jan. 08, 2026
R&S	BT Base Station	CBT	100815	Feb. 26, 2025	Feb. 25, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3902	Feb. 19, 2025	Feb. 18, 2026
Anritsu	Power Meter	ML2496A	2119003	Jul. 14, 2025	Jul. 13, 2026
R&S	Power Sensor	NRP8S	109687	Sep. 22, 2025	Sep. 21, 2026
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Sep. 09, 2025	Sep. 08, 2026
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Oct. 17, 2025	Oct. 16, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	Note 1
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	Note 1
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	Note 1
PE	Attenuator 2	PE7005-10	N/A	Note 1	Note 1
PE	Attenuator 3	PE7005- 3	N/A	Note 1	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.

9. System Verification

9.1 Tissue Verification

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

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

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
2450	22.5	1.86	41.3	1.8	39.2	3.33	5.36	± 10.0	2025-11-26
2450	22.4	1.85	41.4	1.8	39.2	2.78	5.61	± 10.0	2025-11-29
5250	22.5	4.48	36.2	4.71	35.95	-4.88	0.70	± 10.0	2025-11-26
5250	22.5	4.48	36.4	4.71	35.95	-4.88	1.25	± 10.0	2025-11-30
5600	22.3	4.85	35.6	5.07	35.5	-4.34	0.28	± 10.0	2025-11-27
5600	22.6	4.84	35.7	5.07	35.5	-4.54	0.56	± 10.0	2025-12-01
5800	22.7	5.07	35.3	5.27	35.3	-3.80	0.00	± 10.0	2025-11-28
5800	22.6	5.06	35.4	5.27	35.3	-3.98	0.28	± 10.0	2025-12-02

9.2 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 (%)
SAR01	2025-11-26	2450	50.00	D2450V2 - 806	EX3DV4 - SN7439	DAE4 Sn854	2.620	52.900	52.400	-0.95
SAR01	2025-11-29	2450	50.00	D2450V2 - 806	EX3DV4 - SN7439	DAE4 Sn854	2.630	52.900	52.600	-0.57
SAR01	2025-11-26	5250	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	3.710	78.700	74.200	-5.72
SAR01	2025-11-30	5250	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	3.750	78.700	75.000	-4.70
SAR01	2025-11-27	5600	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	4.210	81.400	84.200	3.44
SAR01	2025-12-01	5600	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	4.140	81.400	82.800	1.72
SAR01	2025-11-28	5800	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	4.130	78.900	82.600	4.69
SAR01	2025-12-02	5800	50.00	D5GHzV2 - 1171	EX3DV4 - SN7439	DAE4 Sn854	3.980	78.900	79.600	0.89

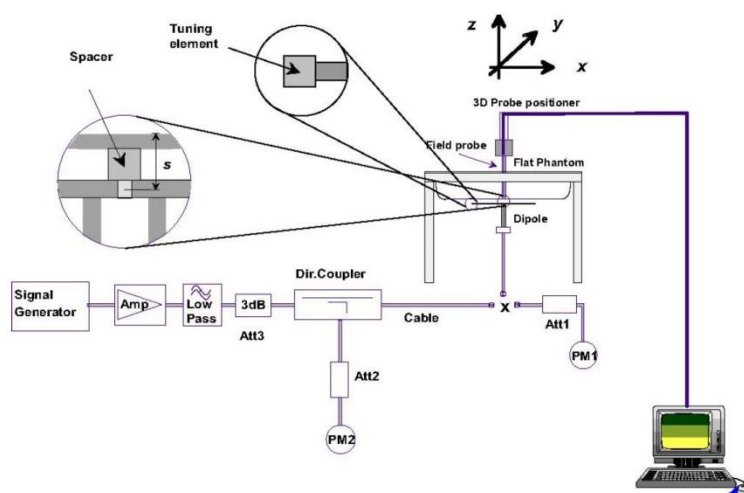


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

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

General Note:

1. For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is $< 1.6\text{W/kg}$ and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
3. 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.
4. 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.
5. 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).
6. 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.
7. 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 $\leq 0.4\text{ W/kg}$, 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 $> 0.4\text{ W/kg}$, 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 $\leq 0.8\text{ W/kg}$ or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.
8. 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)
9. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
10. 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
11. 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

**【2.4GHz WLAN_Main_Laptop】**

2.4GHz WLAN_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	16.70	17.00	99.53
802.11b 1Mbps	6	2437	16.60	17.00	99.53
802.11b 1Mbps	11	2462	16.45	17.00	99.53
802.11b 1Mbps	12	2467	15.20	15.50	99.53
802.11b 1Mbps	13	2472	11.61	12.00	99.53
802.11g 6Mbps	1	2412	Not Required	17.00	Not Required
802.11g 6Mbps	6	2437	Not Required	17.00	Not Required
802.11g 6Mbps	11	2462	Not Required	17.00	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	16.00	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	17.00	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	16.00	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	15.00	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	17.00	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	15.00	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	17.00	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	17.00	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	17.00	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	17.00	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required

**【2.4GHz WLAN_Aux_Laptop】**

2.4GHz WLAN_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	16.20	16.50	99.50
802.11b 1Mbps	6	2437	16.40	16.50	99.50
802.11b 1Mbps	11	2462	16.35	16.50	99.50
802.11b 1Mbps	12	2467	14.40	15.50	99.50
802.11b 1Mbps	13	2472	11.44	12.00	99.50
802.11g 6Mbps	1	2412	Not Required	16.50	Not Required
802.11g 6Mbps	6	2437	Not Required	16.50	Not Required
802.11g 6Mbps	11	2462	Not Required	16.50	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	16.00	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	16.50	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	16.00	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	15.00	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	16.50	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	15.00	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	16.50	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	16.50	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	16.50	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required

**【2.4GHz WLAN_Main_Tablet】**

2.4GHz WLAN_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	14.24	14.50	99.53
802.11b 1Mbps	6	2437	14.25	14.50	99.53
802.11b 1Mbps	11	2462	14.02	14.50	99.53
802.11b 1Mbps	12	2467	14.02	14.50	99.53
802.11b 1Mbps	13	2472	11.61	12.00	99.53
802.11g 6Mbps	1	2412	Not Required	14.50	Not Required
802.11g 6Mbps	6	2437	Not Required	14.50	Not Required
802.11g 6Mbps	11	2462	Not Required	14.50	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	14.50	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	14.50	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	14.50	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	14.50	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	14.50	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	14.50	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required

**【2.4GHz WLAN_Aux_Tablet】**

2.4GHz WLAN_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	13.20	13.50	99.50
802.11b 1Mbps	6	2437	13.40	13.50	99.50
802.11b 1Mbps	11	2462	13.35	13.50	99.50
802.11b 1Mbps	12	2467	13.40	13.50	99.50
802.11b 1Mbps	13	2472	11.44	12.00	99.50
802.11g 6Mbps	1	2412	Not Required	13.50	Not Required
802.11g 6Mbps	6	2437	Not Required	13.50	Not Required
802.11g 6Mbps	11	2462	Not Required	13.50	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	13.50	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	13.50	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	13.50	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	13.50	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	13.50	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	13.50	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required

**【2.4GHz WLAN_Main +Aux_Laptop】**

2.4GHz WLAN_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11b 1Mbps	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11b 1Mbps	11	2462	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11b 1Mbps	12	2467	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required
802.11b 1Mbps	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11g 6Mbps	1	2412	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11g 6Mbps	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11g 6Mbps	11	2462	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	16.00	Not Required	16.00	Not Required	19.00	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required

**[2.4GHz WLAN_Main +Aux_Tablet]**

2.4GHz WLAN_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11b 1Mbps	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11b 1Mbps	11	2462	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11b 1Mbps	12	2467	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11b 1Mbps	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11g 6Mbps	1	2412	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11g 6Mbps	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11g 6Mbps	11	2462	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11g 6Mbps	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11g 6Mbps	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT20 MCS0	1	2412	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT20 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT20 MCS0	11	2462	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT20 MCS0	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT40 MCS0	3	2422	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT40 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT40 MCS0	9	2452	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11n-HT40 MCS0	10	2457	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11n-HT40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	1	2412	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT20 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT20 MCS0	11	2462	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT20 MCS0	12	2467	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	3	2422	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT40 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT40 MCS0	9	2452	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ac-VHT40 MCS0	10	2457	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	1	2412	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	11	2462	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	12	2467	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE20 MCS0	13	2472	Not Required	12.00	Not Required	12.00	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	3	2422	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE40 MCS0	6	2437	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE40 MCS0	9	2452	Not Required	13.50	Not Required	13.50	Not Required	16.50	Not Required
802.11ax-HE40 MCS0	10	2457	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	11	2462	Not Required	11.00	Not Required	11.00	Not Required	14.00	Not Required

**【 5.2GHz WLAN_Main_Laptop 】**

5.2GHz WLAN_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	14.50	Not Required
802.11a 6Mbps	40	5200	Not Required	14.50	Not Required
802.11a 6Mbps	44	5220	Not Required	14.50	Not Required
802.11a 6Mbps	48	5240	Not Required	14.50	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	14.50	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	14.50	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	14.50	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	14.50	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	14.50	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	14.50	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	14.50	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	14.50	Not Required

**【5.2GHz WLAN_Aux_Laptop】**

5.2GHz WLAN_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	15.00	Not Required
802.11a 6Mbps	40	5200	Not Required	15.00	Not Required
802.11a 6Mbps	44	5220	Not Required	15.00	Not Required
802.11a 6Mbps	48	5240	Not Required	15.00	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	15.00	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	15.00	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	15.00	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	15.00	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	15.00	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	15.00	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	15.00	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	15.00	Not Required

【5.2GHz WLAN_Main_Tablet】

5.2GHz WLAN_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	11.00	Not Required
802.11a 6Mbps	40	5200	Not Required	11.00	Not Required
802.11a 6Mbps	44	5220	Not Required	11.00	Not Required
802.11a 6Mbps	48	5240	Not Required	11.00	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	11.00	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	11.00	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	11.00	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	11.00	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	11.00	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	11.00	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	11.00	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	11.00	Not Required

**【5.2GHz WLAN_Aux_Tablet】**

5.2GHz WLAN_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	10.50	Not Required
802.11a 6Mbps	40	5200	Not Required	10.50	Not Required
802.11a 6Mbps	44	5220	Not Required	10.50	Not Required
802.11a 6Mbps	48	5240	Not Required	10.50	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	10.50	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	10.50	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	10.50	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	10.50	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	10.50	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	10.50	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	10.50	Not Required

【5.2GHz WLAN_Main +Aux_Laptop】

5.2GHz WLAN_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	40	5200	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	44	5220	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	48	5240	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required

**【5.2GHz WLAN_Main +Aux_Tablet】**

5.2GHz WLAN_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	40	5200	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	44	5220	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	48	5240	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	36	5180	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	40	5200	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	44	5220	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	48	5240	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	38	5190	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	46	5230	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	36	5180	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	40	5200	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	44	5220	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	48	5240	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	38	5190	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	46	5230	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	42	5210	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	36	5180	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	40	5200	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	44	5220	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	48	5240	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	38	5190	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	46	5230	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	42	5210	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required

【5.3GHz WLAN_Main_Laptop】

5.3GHz WLAN_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	14.50	Not Required
802.11a 6Mbps	56	5280	Not Required	14.50	Not Required
802.11a 6Mbps	60	5300	Not Required	14.50	Not Required
802.11a 6Mbps	64	5320	Not Required	14.50	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	14.50	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	14.50	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	14.50	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	14.50	Not Required
802.11n-HT40 MCS0	54	5270	14.45	14.50	99.41
802.11n-HT40 MCS0	62	5310	14.50	14.50	99.41
802.11ac-VHT20 MCS0	52	5260	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	14.50	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	14.50	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	14.50	Not Required
802.11ac-VHT80 MCS0	58	5290	14.15	14.50	96.39
802.11ax-HE20 MCS0	52	5260	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	14.50	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	14.50	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	14.50	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	14.50	Not Required

**【5.3GHz WLAN_Aux_Laptop】**

5.3GHz WLAN_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	15.00	Not Required
802.11a 6Mbps	56	5280	Not Required	15.00	Not Required
802.11a 6Mbps	60	5300	Not Required	15.00	Not Required
802.11a 6Mbps	64	5320	Not Required	15.00	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	15.00	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	15.00	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	15.00	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	15.00	Not Required
802.11n-HT40 MCS0	54	5270	14.65	15.00	99.43
802.11n-HT40 MCS0	62	5310	14.80	15.00	99.43
802.11ac-VHT20 MCS0	52	5260	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	15.00	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	15.00	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	15.00	Not Required
802.11ac-VHT80 MCS0	58	5290	14.60	15.00	96.39
802.11ax-HE20 MCS0	52	5260	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	15.00	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	15.00	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	15.00	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	15.00	Not Required

【5.3GHz WLAN_Main_Tablet】

5.3GHz WLAN_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	11.00	Not Required
802.11a 6Mbps	56	5280	Not Required	11.00	Not Required
802.11a 6Mbps	60	5300	Not Required	11.00	Not Required
802.11a 6Mbps	64	5320	Not Required	11.00	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	11.00	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	11.00	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	11.00	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	11.00	Not Required
802.11n-HT40 MCS0	54	5270	10.95	11.00	99.27
802.11n-HT40 MCS0	62	5310	11.00	11.00	99.27
802.11ac-VHT20 MCS0	52	5260	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	11.00	Not Required
802.11ac-VHT80 MCS0	58	5290	10.65	11.00	96.39
802.11ax-HE20 MCS0	52	5260	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	11.00	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	11.00	Not Required

**【5.3GHz WLAN_Aux_Tablet】**

5.3GHz WLAN_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	10.50	Not Required
802.11a 6Mbps	56	5280	Not Required	10.50	Not Required
802.11a 6Mbps	60	5300	Not Required	10.50	Not Required
802.11a 6Mbps	64	5320	Not Required	10.50	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	10.50	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	10.50	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	10.50	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	10.50	Not Required
802.11n-HT40 MCS0	54	5270	10.15	10.50	99.43
802.11n-HT40 MCS0	62	5310	10.30	10.50	99.43
802.11ac-VHT20 MCS0	52	5260	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	10.50	Not Required
802.11ac-VHT80 MCS0	58	5290	10.10	10.50	96.39
802.11ax-HE20 MCS0	52	5260	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	10.50	Not Required

【5.3GHz WLAN_Main +Aux_Laptop】

5.3GHz WLAN_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	56	5280	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	60	5300	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11a 6Mbps	64	5320	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT40 MCS0	54	5270	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11n-HT40 MCS0	62	5310	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	52	5260	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ac-VHT80 MCS0	58	5290	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	52	5260	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	14.50	Not Required	14.50	Not Required	17.50	Not Required

**[5.3GHz WLAN_Main +Aux_Tablet]**

5.3GHz WLAN_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	56	5280	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	60	5300	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	64	5320	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	52	5260	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	56	5280	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	60	5300	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	64	5320	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	54	5270	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	62	5310	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	52	5260	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	56	5280	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	60	5300	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	64	5320	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	54	5270	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	62	5310	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	58	5290	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	52	5260	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	56	5280	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	60	5300	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	64	5320	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	54	5270	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	62	5310	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	58	5290	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required

[5.5GHz WLAN_Main_Laptop]

5.5GHz WLAN_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	14.00	Not Required
802.11a 6Mbps	116	5580	Not Required	14.00	Not Required
802.11a 6Mbps	124	5620	Not Required	14.00	Not Required
802.11a 6Mbps	132	5660	Not Required	14.00	Not Required
802.11a 6Mbps	140	5700	Not Required	14.00	Not Required
802.11a 6Mbps	144	5720	Not Required	14.00	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	14.00	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	14.00	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	14.00	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	14.00	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	14.00	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	14.00	Not Required
802.11n-HT40 MCS0	102	5510	Not Required	14.00	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	14.00	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	14.00	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	14.00	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	14.00	Not Required
802.11ac-VHT80 MCS0	106	5530	13.65	14.00	96.39
802.11ac-VHT80 MCS0	122	5610	13.90	14.00	96.39
802.11ac-VHT80 MCS0	138	5690	13.56	14.00	96.39
802.11ax-HE20 MCS0	100	5500	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	14.00	Not Required



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802.11ax-HE20 MCS0	144	5720	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	14.00	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	14.00	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	14.00	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	14.00	Not Required

【5.5GHz WLAN_Aux_Laptop】

5.5GHz WLAN_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	13.00	Not Required
802.11a 6Mbps	116	5580	Not Required	13.00	Not Required
802.11a 6Mbps	124	5620	Not Required	13.00	Not Required
802.11a 6Mbps	132	5660	Not Required	13.00	Not Required
802.11a 6Mbps	140	5700	Not Required	13.00	Not Required
802.11a 6Mbps	144	5720	Not Required	13.00	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	13.00	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	13.00	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	13.00	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	13.00	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	13.00	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	13.00	Not Required
802.11n-HT40 MCS0	102	5510	Not Required	13.00	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	13.00	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	13.00	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	13.00	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	13.00	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	13.00	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	13.00	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	13.00	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	13.00	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	13.00	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	13.00	Not Required
802.11ac-VHT80 MCS0	106	5530	12.65	13.00	96.39
802.11ac-VHT80 MCS0	122	5610	12.95	13.00	96.39
802.11ac-VHT80 MCS0	138	5690	12.95	13.00	96.39
802.11ax-HE20 MCS0	100	5500	Not Required	13.00	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	13.00	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	13.00	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	13.00	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	13.00	Not Required
802.11ax-HE20 MCS0	144	5720	Not Required	13.00	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	13.00	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	13.00	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	13.00	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	13.00	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	13.00	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	13.00	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	13.00	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	13.00	Not Required

**【 5.5GHz WLAN_Main_Tablet】**

5.5GHz WLAN_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	12.00	Not Required
802.11a 6Mbps	116	5580	Not Required	12.00	Not Required
802.11a 6Mbps	124	5620	Not Required	12.00	Not Required
802.11a 6Mbps	132	5660	Not Required	12.00	Not Required
802.11a 6Mbps	140	5700	Not Required	12.00	Not Required
802.11a 6Mbps	144	5720	Not Required	12.00	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	12.00	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	12.00	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	12.00	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	12.00	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	12.00	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	12.00	Not Required
802.11n-HT40 MCS0	102	5510	Not Required	12.00	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	12.00	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	12.00	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	12.00	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	12.00	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	12.00	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	12.00	Not Required
802.11ac-VHT80 MCS0	106	5530	11.65	12.00	96.39
802.11ac-VHT80 MCS0	122	5610	11.90	12.00	96.39
802.11ac-VHT80 MCS0	138	5690	11.56	12.00	96.39
802.11ax-HE20 MCS0	100	5500	Not Required	12.00	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	12.00	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	12.00	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	12.00	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	12.00	Not Required
802.11ax-HE20 MCS0	144	5720	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	12.00	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	12.00	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	12.00	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	12.00	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	12.00	Not Required



【5.5GHz WLAN_Aux_Tablet】

5.5GHz WLAN_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	10.50	Not Required
802.11a 6Mbps	116	5580	Not Required	10.50	Not Required
802.11a 6Mbps	124	5620	Not Required	10.50	Not Required
802.11a 6Mbps	132	5660	Not Required	10.50	Not Required
802.11a 6Mbps	140	5700	Not Required	10.50	Not Required
802.11a 6Mbps	144	5720	Not Required	10.50	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	10.50	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	10.50	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	10.50	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	10.50	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	10.50	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	10.50	Not Required
802.11n-HT40 MCS0	102	5510	Not Required	10.50	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	10.50	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	10.50	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	10.50	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	10.50	Not Required
802.11ac-VHT80 MCS0	106	5530	10.15	10.50	96.39
802.11ac-VHT80 MCS0	122	5610	10.45	10.50	96.39
802.11ac-VHT80 MCS0	138	5690	10.45	10.50	96.39
802.11ax-HE20 MCS0	100	5500	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	144	5720	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	10.50	Not Required

**【5.5GHz WLAN_Main +Aux_Laptop】**

5.5GHz WLAN_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11a 6Mbps	116	5580	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11a 6Mbps	124	5620	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11a 6Mbps	132	5660	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11a 6Mbps	140	5700	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11a 6Mbps	144	5720	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT40 MCS0	102	5510	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT80 MCS0	106	5530	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT80 MCS0	122	5610	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ac-VHT80 MCS0	138	5690	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	100	5500	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE20 MCS0	144	5720	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required

**【 5.5GHz WLAN_Main +Aux_Tablet】**

5.5GHz WLAN_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	116	5580	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	124	5620	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	132	5660	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	140	5700	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	144	5720	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	100	5500	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	116	5580	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	124	5620	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	132	5660	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	140	5700	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	144	5720	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	102	5510	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	110	5550	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	126	5630	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	134	5670	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	142	5710	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	100	5500	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	116	5580	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	124	5620	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	132	5660	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	140	5700	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	144	5720	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	102	5510	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	110	5550	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	126	5630	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	134	5670	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	142	5710	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	106	5530	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	122	5610	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	138	5690	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	100	5500	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	116	5580	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	124	5620	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	132	5660	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	140	5700	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	144	5720	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	102	5510	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	110	5550	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	126	5630	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	134	5670	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	142	5710	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	106	5530	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	122	5610	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	138	5690	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required

**【5.8GHz WLAN_Main_Laptop】**

5.8GHz WLAN_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	12.50	Not Required
802.11a 6Mbps	157	5785	Not Required	12.50	Not Required
802.11a 6Mbps	165	5825	Not Required	12.50	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	12.50	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	12.50	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	12.50	Not Required
802.11n-HT40 MCS0	151	5755	12.35	12.50	99.41
802.11n-HT40 MCS0	159	5795	12.32	12.50	99.41
802.11ac-VHT20 MCS0	149	5745	Not Required	12.50	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	12.50	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	12.50	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	12.50	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	12.50	Not Required
802.11ac-VHT80 MCS0	155	5775	12.21	12.50	96.39
802.11ax-HE20 MCS0	149	5745	Not Required	12.50	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	12.50	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	12.50	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	12.50	Not Required

【5.8GHz WLAN_Aux_Laptop】

5.8GHz WLAN_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	14.00	Not Required
802.11a 6Mbps	157	5785	Not Required	14.00	Not Required
802.11a 6Mbps	165	5825	Not Required	14.00	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	14.00	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	14.00	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	14.00	Not Required
802.11n-HT40 MCS0	151	5755	13.95	14.00	99.43
802.11n-HT40 MCS0	159	5795	13.90	14.00	99.43
802.11ac-VHT20 MCS0	149	5745	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	14.00	Not Required
802.11ac-VHT80 MCS0	155	5775	13.70	14.00	96.39
802.11ax-HE20 MCS0	149	5745	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	14.00	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	14.00	Not Required

**【 5.8GHz WLAN_Main_Tablet】**

5.8GHz WLAN_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	11.00	Not Required
802.11a 6Mbps	157	5785	Not Required	11.00	Not Required
802.11a 6Mbps	165	5825	Not Required	11.00	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	11.00	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	11.00	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	11.00	Not Required
802.11n-HT40 MCS0	151	5755	10.85	11.00	99.27
802.11n-HT40 MCS0	159	5795	10.82	11.00	99.27
802.11ac-VHT20 MCS0	149	5745	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	11.00	Not Required
802.11ac-VHT80 MCS0	155	5775	10.71	11.00	96.39
802.11ax-HE20 MCS0	149	5745	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	11.00	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	11.00	Not Required

【 5.8GHz WLAN_Aux_Tablet】

5.8GHz WLAN_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	10.50	Not Required
802.11a 6Mbps	157	5785	Not Required	10.50	Not Required
802.11a 6Mbps	165	5825	Not Required	10.50	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	10.50	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	10.50	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	10.50	Not Required
802.11n-HT40 MCS0	151	5755	10.45	10.50	99.43
802.11n-HT40 MCS0	159	5795	10.40	10.50	99.43
802.11ac-VHT20 MCS0	149	5745	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	10.50	Not Required
802.11ac-VHT80 MCS0	155	5775	10.20	10.50	96.39
802.11ax-HE20 MCS0	149	5745	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	10.50	Not Required

**【5.8GHz WLAN_Main +Aux_Laptop】**

5.8GHz WLAN_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11a 6Mbps	157	5785	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11a 6Mbps	165	5825	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT40 MCS0	151	5755	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT40 MCS0	159	5795	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	149	5745	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT80 MCS0	155	5775	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	149	5745	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required

【5.8GHz WLAN_Main +Aux_Tablet】

5.8GHz WLAN_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	157	5785	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	165	5825	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	149	5745	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	157	5785	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	165	5825	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	151	5755	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	159	5795	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	149	5745	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	157	5785	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	165	5825	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	151	5755	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	159	5795	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	155	5775	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	149	5745	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	157	5785	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	165	5825	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	151	5755	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	159	5795	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	155	5775	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required

**【5.9GHz WLAN UNII 4_Main_Laptop】**

5.9GHz WLAN UNII 4_Main_Laptop			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	12.50	Not Required
802.11a 6Mbps	173	5865	Not Required	12.50	Not Required
802.11a 6Mbps	177	5885	Not Required	12.50	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	12.50	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	12.50	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	12.50	Not Required
802.11n-HT40 MCS0	167	5835	12.35	12.50	99.41
802.11n-HT40 MCS0	175	5875	12.45	12.50	99.41
802.11ac-VHT20 MCS0	169	5845	Not Required	12.50	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	12.50	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	12.50	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	12.50	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	12.50	Not Required
802.11ac-VHT80 MCS0	171	5855	12.10	12.50	96.39
802.11ax-HE20 MCS0	169	5845	Not Required	12.50	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	12.50	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	12.50	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	12.50	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	12.50	Not Required

【5.9GHz WLAN UNII 4_Aux_Laptop】

5.9GHz WLAN UNII 4_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	14.00	Not Required
802.11a 6Mbps	173	5865	Not Required	14.00	Not Required
802.11a 6Mbps	177	5885	Not Required	14.00	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	14.00	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	14.00	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	14.00	Not Required
802.11n-HT40 MCS0	167	5835	13.95	14.00	99.43
802.11n-HT40 MCS0	175	5875	13.95	14.00	99.43
802.11ac-VHT20 MCS0	169	5845	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	14.00	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	14.00	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	14.00	Not Required
802.11ac-VHT80 MCS0	171	5855	13.75	14.00	96.39
802.11ax-HE20 MCS0	169	5845	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	14.00	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	14.00	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	14.00	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	14.00	Not Required

**【5.9GHz WLAN UNII 4_Main_Tablet】**

5.9GHz WLAN UNII 4_Main_Tablet			Main	Main	Main
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	11.00	Not Required
802.11a 6Mbps	173	5865	Not Required	11.00	Not Required
802.11a 6Mbps	177	5885	Not Required	11.00	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	11.00	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	11.00	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	11.00	Not Required
802.11n-HT40 MCS0	167	5835	10.85	11.00	99.27
802.11n-HT40 MCS0	175	5875	10.95	11.00	99.27
802.11ac-VHT20 MCS0	169	5845	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	11.00	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	11.00	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	11.00	Not Required
802.11ac-VHT80 MCS0	171	5855	10.90	11.00	96.39
802.11ax-HE20 MCS0	169	5845	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	11.00	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	11.00	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	11.00	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	11.00	Not Required

【5.9GHz WLAN UNII 4_Aux_Tablet】

5.9GHz WLAN UNII 4_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	10.50	Not Required
802.11a 6Mbps	173	5865	Not Required	10.50	Not Required
802.11a 6Mbps	177	5885	Not Required	10.50	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	10.50	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	10.50	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	10.50	Not Required
802.11n-HT40 MCS0	167	5835	10.45	10.50	99.43
802.11n-HT40 MCS0	175	5875	10.45	10.50	99.43
802.11ac-VHT20 MCS0	169	5845	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	10.50	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	10.50	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	10.50	Not Required
802.11ac-VHT80 MCS0	171	5855	10.25	10.50	96.39
802.11ax-HE20 MCS0	169	5845	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	10.50	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	10.50	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	10.50	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	10.50	Not Required

**【5.9GHz WLAN UNII 4_Main +Aux_Laptop】**

5.9GHz WLAN UNII 4_Main +Aux_Laptop			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11a 6Mbps	173	5865	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11a 6Mbps	177	5885	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT40 MCS0	167	5835	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11n-HT40 MCS0	175	5875	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	169	5845	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ac-VHT80 MCS0	171	5855	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	169	5845	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required

【5.9GHz WLAN UNII 4_Main +Aux_Tablet】

5.9GHz WLAN UNII 4_Main +Aux_Tablet			Main +Aux()	Main +Aux()	Main +Aux(Aux)	Main +Aux(Aux)	Main +Aux	Main +Aux	Main +Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	169	5845	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	173	5865	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11a 6Mbps	177	5885	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	169	5845	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	173	5865	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT20 MCS0	177	5885	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	167	5835	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11n-HT40 MCS0	175	5875	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	169	5845	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	173	5865	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT20 MCS0	177	5885	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	167	5835	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT40 MCS0	175	5875	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ac-VHT80 MCS0	171	5855	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	169	5845	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	173	5865	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE20 MCS0	177	5885	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	167	5835	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE40 MCS0	175	5875	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required
802.11ax-HE80 MCS0	171	5855	Not Required	10.50	Not Required	10.50	Not Required	13.50	Not Required

**<2.4GHz Bluetooth>****【Bluetooth_Laptop】**

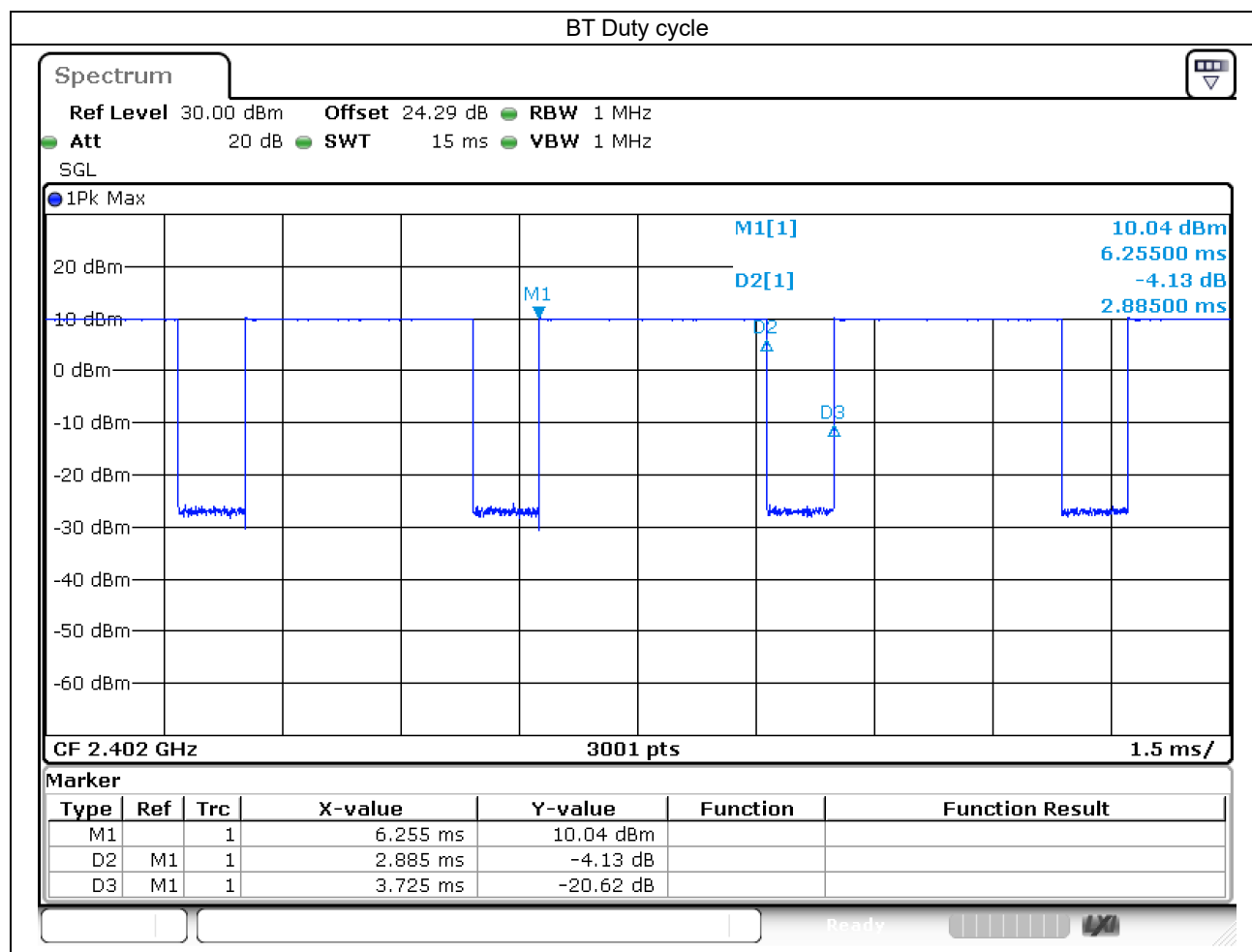
Bluetooth_Aux_Laptop			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
BR / EDR 1Mbps	0	2402	12.46	12.50	77.45
BR / EDR 1Mbps	39	2441	12.45	12.50	77.45
BR / EDR 1Mbps	78	2480	12.44	12.50	77.45
BR / EDR 2Mbps	0	2402	Not Required	10.50	Not Required
BR / EDR 2Mbps	39	2441	Not Required	10.50	Not Required
BR / EDR 2Mbps	78	2480	Not Required	10.50	Not Required
BR / EDR 3Mbps	0	2402	Not Required	10.50	Not Required
BR / EDR 3Mbps	39	2441	Not Required	10.50	Not Required
BR / EDR 3Mbps	78	2480	Not Required	10.50	Not Required
LE 1Mbps	0	2402	Not Required	7.50	Not Required
LE 1Mbps	19	2440	Not Required	7.50	Not Required
LE 1Mbps	39	2480	Not Required	7.50	Not Required
LE 2Mbps	0	2402	Not Required	7.50	Not Required
LE 2Mbps	19	2440	Not Required	7.50	Not Required
LE 2Mbps	39	2480	Not Required	7.50	Not Required

【Bluetooth_Tablet】

Bluetooth_Aux_Tablet			Aux	Aux	Aux
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
BR / EDR 1Mbps	0	2402	12.46	12.50	77.45
BR / EDR 1Mbps	39	2441	12.45	12.50	77.45
BR / EDR 1Mbps	78	2480	12.44	12.50	77.45
BR / EDR 2Mbps	0	2402	Not Required	10.50	Not Required
BR / EDR 2Mbps	39	2441	Not Required	10.50	Not Required
BR / EDR 2Mbps	78	2480	Not Required	10.50	Not Required
BR / EDR 3Mbps	0	2402	Not Required	10.50	Not Required
BR / EDR 3Mbps	39	2441	Not Required	10.50	Not Required
BR / EDR 3Mbps	78	2480	Not Required	10.50	Not Required
LE 1Mbps	0	2402	Not Required	7.50	Not Required
LE 1Mbps	19	2440	Not Required	7.50	Not Required
LE 1Mbps	39	2480	Not Required	7.50	Not Required
LE 2Mbps	0	2402	Not Required	7.50	Not Required
LE 2Mbps	19	2440	Not Required	7.50	Not Required
LE 2Mbps	39	2480	Not Required	7.50	Not Required

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is **77.45%** considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.



<SAR test exclusion table>
General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

Laptop Mode 1g SAR (W/kg)

Exposure Position	Wireless Interface	BT Aux	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux
	Calculated Frequency (MHz)	2480	2437	2412	5290	5290
	Maximum power (dBm)	12.5	17.0	16.5	14.0	13.0
	Maximum rated power(mW)	17.78	50.12	44.67	25.12	19.95
Bottom Side	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	5.6	15.7	13.9	11.6	9.2
	Testing required?	Yes	Yes	Yes	Yes	Yes

Tablet Mode 1g SAR (W/kg)

Exposure Position	Wireless Interface	BT Aux	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux
	Calculated Frequency (MHz)	2480	2467	2467	5530	5855
	Maximum power (dBm)	12.5	14.5	13.5	11.0	10.5
	Maximum rated power(mW)	17.78	28.18	22.39	12.59	11.22
Back	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	5.6	8.9	7.0	5.9	5.4
	Testing required?	Yes	Yes	Yes	Yes	Yes
Left	Separation distance(mm)	5.0	323.6	5.0	323.6	5.0
	exclusion threshold	5.6	2832.0	7.0	2800.0	5.4
	Testing required?	Yes	No	Yes	No	Yes
Right	Separation distance(mm)	323.6	5.0	323.6	5.0	323.6
	exclusion threshold	2831.0	8.9	2832.0	5.9	2798.0
	Testing required?	No	Yes	No	Yes	No
Top	Separation distance(mm)	23.5	23.5	23.5	23.5	23.5
	exclusion threshold	1.2	1.9	1.5	1.3	1.2
	Testing required?	No	No	No	No	No

11. 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.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required for hotspot and body-worn condition 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.
3. 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.
4. 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.
5. For WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
7. During SAR testing, the WLAN transmit signal was continuously monitored using a spectrum analyzer to ensure continuous and stable signal output throughout the measurement.



11.1 Body SAR

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Sample	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)
01	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Main	Laptop	1	2412	HTK	16.70	17.00	1.072	99.53	1.005	0.02	1.080	1.164
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Main	Laptop	6	2437	HTK	16.60	17.00	1.096	99.53	1.005	-0.04	1.050	1.157
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Main	Laptop	11	2462	HTK	16.45	17.00	1.135	99.53	1.005	-0.11	1.010	1.152
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Main	Laptop	1	2412	Pulse	16.70	17.00	1.072	99.53	1.005	-0.02	1.040	1.120
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Main	Laptop	6	2437	Pulse	16.60	17.00	1.096	99.53	1.005	0.18	1.030	1.135
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	6	2437	HTK	14.25	14.50	1.059	99.53	1.005	-0.15	0.991	1.055
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	1	2412	HTK	14.24	14.50	1.062	99.53	1.005	0.01	1.030	1.099
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	11	2462	HTK	14.02	14.50	1.117	99.53	1.005	-0.04	0.915	1.028
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	12	2467	HTK	14.02	14.50	1.117	99.53	1.005	0.03	0.897	1.007
	WLAN2.4GHz	802.11b 1Mbps	Right	0mm	Main	Tablet	6	2437	HTK	14.25	14.50	1.059	99.53	1.005	0.09	0.326	0.347
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	1	2412	Pulse	14.24	14.50	1.062	99.53	1.005	-0.12	0.956	1.020
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	6	2437	Pulse	14.25	14.50	1.059	99.53	1.005	-0.09	0.864	0.920
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	11	2462	Pulse	14.02	14.50	1.117	99.53	1.005	-0.10	0.833	0.935
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Main	Tablet	12	2467	Pulse	14.02	14.50	1.117	99.53	1.005	-0.11	0.811	0.911
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Aux	Laptop	6	2437	HTK	16.40	16.50	1.023	99.5	1.005	0.01	0.840	0.864
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Aux	Laptop	1	2412	HTK	16.20	16.50	1.072	99.5	1.005	-0.01	0.795	0.856
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Aux	Laptop	11	2462	HTK	16.35	16.50	1.035	99.5	1.005	-0.07	0.779	0.811
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0mm	Aux	Laptop	6	2437	Pulse	16.40	16.50	1.023	99.5	1.005	0.09	0.586	0.602
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Aux	Tablet	6	2437	HTK	13.40	13.50	1.023	99.5	1.005	0.04	0.885	0.910
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Aux	Tablet	1	2412	HTK	13.20	13.50	1.072	99.5	1.005	-0.13	0.799	0.860
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Aux	Tablet	11	2462	HTK	13.35	13.50	1.035	99.5	1.005	0.03	0.868	0.903
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Aux	Tablet	12	2467	HTK	13.40	13.50	1.023	99.5	1.005	0.12	0.826	0.849
	WLAN2.4GHz	802.11b 1Mbps	Left	0mm	Aux	Tablet	6	2437	HTK	13.40	13.50	1.023	99.5	1.005	0.15	0.226	0.232
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Aux	Tablet	6	2437	Pulse	13.40	13.50	1.023	99.5	1.005	-0.18	0.627	0.645
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	58	5290	HTK	14.15	14.50	1.084	96.39	1.037	-0.04	0.943	1.060
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Main	Laptop	62	5310	HTK	14.50	14.50	1.0	99.41	1.006	0.18	0.932	0.938
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	58	5290	Pulse	14.90	15.00	1.023	97.28	1.028	0.05	0.888	0.934
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Main	Laptop	54	5270	Pulse	14.45	14.50	1.012	99.41	1.006	-0.12	0.800	0.815
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	58	5290	HTK	10.65	11.00	1.084	96.39	1.037	-0.02	0.868	0.976
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	62	5310	HTK	11.00	11.00	1.0	99.27	1.007	-0.04	1.020	1.027
	WLAN5GHz	802.11ac-VHT80 MCS0	Right	0mm	Main	Tablet	58	5290	HTK	10.65	11.00	1.084	96.39	1.037	-0.04	0.262	0.295
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	62	5310	Pulse	11.00	11.00	1.0	99.27	1.007	-0.15	0.756	0.761
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	58	5290	HTK	14.60	15.00	1.096	96.39	1.037	0.05	1.020	1.159
02	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	62	5310	HTK	14.80	15.00	1.047	99.43	1.006	0.02	1.110	1.169
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	58	5290	Pulse	14.60	15.00	1.096	96.39	1.037	0.04	0.997	1.133
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	62	5310	Pulse	14.80	15.00	1.047	99.43	1.006	-0.04	0.855	0.901
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	58	5290	HTK	10.10	10.50	1.096	96.39	1.037	-0.17	0.740	0.841
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Aux	Tablet	62	5310	HTK	10.30	10.50	1.047	99.43	1.006	-0.04	0.827	0.871
	WLAN5GHz	802.11ac-VHT80 MCS0	Left	0mm	Aux	Tablet	58	5290	HTK	10.10	10.50	1.096	96.39	1.037	0.14	0.388	0.441
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	58	5290	Pulse	10.10	10.50	1.096	96.39	1.037	-0.13	0.691	0.785
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	122	5610	HTK	13.90	14.00	1.023	96.39	1.037	0.00	1.060	1.125
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	106	5530	HTK	13.65	14.00	1.084	96.39	1.037	-0.09	0.985	1.107
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	122	5610	Pulse	13.90	14.00	1.023	96.39	1.037	-0.08	0.665	0.706
03	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	122	5610	HTK	11.90	12.00	1.023	96.39	1.037	-0.01	1.100	1.167
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	106	5530	HTK	11.65	12.00	1.084	96.39	1.037	0.15	1.010	1.135
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	138	5690	HTK	11.56	12.00	1.107	96.39	1.037	-0.16	0.819	0.940
	WLAN5GHz	802.11ac-VHT80 MCS0	Right	0mm	Main	Tablet	122	5610	HTK	11.90	12.00	1.023	96.39	1.037	0.17	0.370	0.393
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	122	5610	Pulse	11.90	12.00	1.023	96.39	1.037	-0.13	0.910	0.965
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	106	5530	Pulse	11.65	12.00	1.084	96.39	1.037	0.17	0.996	1.120
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	138	5690	Pulse	11.56	12.00	1.107	96.39	1.037	-0.10	0.841	0.965
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	122	5610	HTK	12.95	13.00	1.012	96.39	1.037	0.03	0.783	0.822
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	138	5690	HTK	12.95	13.00	1.012	96.39	1.037	-0.19	0.616	0.647
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	122	5610	Pulse	12.95	13.00	1.012	96.39	1.037	-0.07	0.364	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	122	5610	HTK	10.45	10.50	1.012	96.39	1.037	-0.16	0.709	0.744
	WLAN5GHz	802.11ac-VHT80 MCS0	Left	0mm	Aux	Tablet	122	5610	HTK	10.45	10.50	1.012	96.39	1.037	0.03	0.347	0.365
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	122	5610	Pulse	10.45	10.50	1.012	96.39	1.037	0.12	0.800	0.840
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	138	5690	Pulse	10.15	10.50	1.084	97.33	1.027	-0.01	0.836	0.931
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	106	5530	Pulse	10.45	10.50	1.012	97.33	1.027	0.01	0.732	0.760
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	155	5775	HTK	12.21	12.50	1.069	96.39	1.037	0.08	0.733	0.813
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Main	Laptop	151	5755	HTK	12.35	12.50	1.035	99.41	1.006	-0.14	0.679	0.707
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	155	5775	Pulse	12.21	12.50	1.069	96.39	1.037	0.17	0.591	0.655
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	155	5775	HTK	10.71	11.00	1.069	96.39	1.037	0.07	0.835	0.926
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	151	5755	HTK	10.85	11.00	1.035	99.27	1.007	0.13	0.758	0.790
	WLAN5GHz	802.11ac-VHT80 MCS0	Right	0mm	Main	Tablet	155	5775	HTK	10.71	11.00	1.069	96.39	1.037	0.11	0.421	0.467



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	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	155	5775	Pulse	10.71	11.00	1.069	96.39	1.037	-0.08	0.811	0.899
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	151	5755	Pulse	10.85	11.00	1.035	99.27	1.007	0.18	0.846	0.882
04	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	155	5775	HTK	13.70	14.00	1.072	96.39	1.037	0.02	0.904	1.005
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	151	5755	HTK	13.95	14.00	1.012	99.43	1.006	0.16	0.825	0.839
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	155	5775	Pulse	13.70	14.00	1.072	96.39	1.037	-0.13	0.683	0.759
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	159	5795	Pulse	13.90	14.00	1.023	99.43	1.006	-0.15	0.804	0.828
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	155	5775	HTK	10.20	10.50	1.072	96.39	1.037	-0.18	0.666	0.741
	WLAN5GHz	802.11ac-VHT80 MCS0	Left	0mm	Aux	Tablet	155	5775	HTK	10.20	10.50	1.072	96.39	1.037	-0.06	0.381	0.423
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	155	5775	Pulse	10.20	10.50	1.072	96.39	1.037	0.12	0.671	0.746
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Aux	Tablet	151	5755	Pulse	10.45	10.50	1.012	99.43	1.006	-0.04	0.689	0.701
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	171	5855	HTK	12.10	12.50	1.096	96.39	1.037	-0.04	0.736	0.837
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Main	Laptop	175	5875	HTK	12.45	12.50	1.012	99.41	1.006	-0.16	0.735	0.748
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Main	Laptop	171	5855	Pulse	12.10	12.50	1.096	96.39	1.037	0.17	0.442	0.503
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Main	Laptop	167	5835	Pulse	12.35	12.50	1.035	99.41	1.006	0.17	0.461	0.480
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	171	5855	HTK	10.90	11.00	1.023	96.39	1.037	-0.18	0.819	0.869
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	175	5875	HTK	10.95	11.00	1.012	99.27	1.007	0.05	1.060	1.080
	WLAN5GHz	802.11ac-VHT80 MCS0	Right	0mm	Main	Tablet	171	5855	HTK	10.90	11.00	1.023	96.39	1.037	0.00	0.365	0.388
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Main	Tablet	175	5875	Pulse	10.95	11.00	1.012	99.27	1.007	-0.05	0.992	1.011
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Main	Tablet	171	5855	Pulse	10.90	11.00	1.023	96.39	1.037	-0.15	0.636	0.675
05	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	171	5855	HTK	13.75	14.00	1.059	96.39	1.037	-0.09	1.020	1.120
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	167	5835	HTK	13.95	14.00	1.012	99.43	1.006	0.14	1.030	1.049
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Aux	Laptop	171	5855	Pulse	13.75	14.00	1.059	96.39	1.037	-0.08	0.889	0.977
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Aux	Laptop	167	5835	Pulse	13.95	14.00	1.012	99.43	1.006	-0.12	0.982	1.000
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	171	5855	HTK	10.25	10.50	1.059	96.39	1.037	-0.15	0.720	0.791
	WLAN5GHz	802.11ac-VHT80 MCS0	Left	0mm	Aux	Tablet	171	5855	HTK	10.25	10.50	1.059	96.39	1.037	-0.15	0.359	0.394
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Aux	Tablet	171	5855	Pulse	10.25	10.50	1.059	96.39	1.037	0.03	0.771	0.847
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Aux	Tablet	167	5835	Pulse	10.45	10.50	1.012	99.43	1.006	-0.09	0.782	0.796

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Configuration	Ch.	Freq. (MHz)	Sample	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	Bottom Side	0mm	Aux	Laptop	0	2402	HTK	12.46	12.50	1.009	77.45	1.076	0.05	0.238	0.258
	Bluetooth	1Mbps	Bottom Side	0mm	Aux	Laptop	0	2402	Pulse	12.46	12.50	1.009	77.45	1.076	0.09	0.235	0.255
06	Bluetooth	1Mbps	Back	0mm	Aux	Tablet	0	2402	HTK	12.46	12.50	1.009	77.45	1.076	-0.01	0.469	0.509
	Bluetooth	1Mbps	Left	0mm	Aux	Tablet	0	2402	HTK	12.46	12.50	1.009	77.45	1.076	-0.14	0.118	0.128
	Bluetooth	1Mbps	Back	0mm	Aux	Tablet	0	2402	Pulse	12.46	12.50	1.009	77.45	1.076	-0.05	0.428	0.464

11.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Antenna Vendor	Configuration	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)	Ratio
1st	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0.0	Main	Laptop	1	2412	HTK	Laptop	16.70	17.00	1.072	99.53	1.005	0.02	1.080	1.164	-
2nd	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	0.0	Main	Laptop	1	2412	HTK	Laptop	16.70	17.00	1.072	99.53	1.005	0.08	1.070	1.147	1.01
1st	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0.0	Aux	Laptop	62	5310	HTK	Laptop	14.80	15.00	1.047	99.43	1.006	0.02	1.110	1.169	-
2nd	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0.0	Aux	Laptop	62	5310	HTK	Laptop	14.80	15.00	1.047	99.43	1.006	0.16	1.100	1.177	0.99
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0.0	Main	Tablet	122	5610	HTK	Tablet	11.90	12.00	1.023	96.39	1.037	-0.01	1.100	1.167	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0.0	Main	Tablet	122	5610	HTK	Tablet	11.90	12.00	1.023	96.39	1.037	-0.07	1.089	1.145	1.02
1st	WLAN5GHz	802.11n-HT40 MCS0	Back	0.0	Main	Tablet	175	5875	HTK	Tablet	10.95	11.00	1.012	99.27	1.007	0.05	1.060	1.080	-
2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	0.0	Main	Tablet	175	5875	HTK	Tablet	10.95	11.00	1.012	99.27	1.007	0.06	1.040	1.076	1.00

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, 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.

12. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	2.4GHz WLAN Main + 2.4GHz WLAN Aux	Yes
2.	5GHz WLAN Main + 5GHz WLAN Aux + Bluetooth Aux	Yes

General Note:

- WLAN RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode. Therefore SPLSR calculation was choose worst case with SAR test results of each antenna in SISO mode perform evaluation.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - The SPLSR calculated results please refer to section 13.2

12.1 Body Exposure Conditions

Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR (W/kg)	3+4+5 Summed 1g SAR (W/kg)	1+2 SPLSR	1+2 Case No.	3+4+5 SPLSR	3+4+5 Case No.
	2.4GHz WLAN Aux 1g SAR (W/kg)	2.4GHz WLAN Main 1g SAR (W/kg)	5GHz WLAN Aux 1g SAR (W/kg)	5GHz WLAN Main 1g SAR (W/kg)	Bluetooth Aux 1g SAR (W/kg)						
Bottom Side at 0mm	0.864	1.164	1.169	1.125	0.258	2.028	2.552	0.01	Case 1	0.01	Case 2
Back at 0mm	0.910	1.099	0.931	1.167	0.509	2.009	2.607	0.01	Case 3	0.01	Case 4
Right at 0mm		0.347		0.467	0.001	0.347	0.468				
Left at 0mm	0.232		0.441		0.128	0.232	0.569				

12.2 SPLSR Evaluation and Analysis

General Note:

1. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
2. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.

Case 1	Band	Position	SAR (W/kg)	SAR Peak Location (mm)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
	2.4GHz WLAN Aux	Bottom Side at 0mm	0.864	-73.0	-157.5	-177.0	321.2	2.03	0.01	Not required
	2.4GHz WLAN Main	Bottom Side at 0mm	1.164	-85.5	163.5	-177.0	321.2	2.03	0.01	Not required

Case 2	Band	Position	SAR (W/kg)	SAR Peak Location (mm)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
	5GHz WLAN Aux+Bluetooth Aux	Bottom Side at 0mm	1.427	-75.7	-157.3	-177.0	316.7	2.55	0.01	Not required
	5GHz WLAN Main	Bottom Side at 0mm	1.125	-87.9	159.2	-177.0	316.7	2.55	0.01	Not required

Case 3	Band	Position	SAR (W/kg)	SAR Peak Location (mm)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
	2.4GHz WLAN Main	Back at 0mm	1.099	79.0	163.0	-177.0	313.6	2.01	0.01	Not required
	2.4GHz WLAN Aux	Back at 0mm	0.910	85.0	-150.5	-177.0	313.6	2.01	0.01	Not required

Case 4	Band	Position	SAR (W/kg)	SAR Peak Location (mm)			3D Distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
	5GHz WLAN Main	Back at 0mm	1.167	85.3	161.7	-177.0	309.1	2.61	0.01	Not required
	5GHz WLAN Aux+Bluetooth Aux	Back at 0mm	1.440	89.0	-147.4	-177.0	309.1	2.61	0.01	Not required

Test Engineer : EN Liu and Elio Wei

13. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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

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

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

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

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

(b) k 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%

14. References

- [1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”
- [2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992
- [3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013
- [4] SPEAG DASY System Handbook
- [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 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015
- [8] FCC KDB 865664 D01 v01r04, “SAR Measurement Requirements for 100 MHz to 6 GHz”, Aug 2015.
- [9] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.