

TEST REPORT

Applicant: Realtek Semiconductor Corp.
Address: No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Equipment Type: 11be RTL8922AE Combo module
Model Name: RTL8922AE
Brand Name: N/A
ISED Number: 6317A-RTL8922AE
Test Standard: RSS-102 Issue 6
(refer to section 3.1)
Maximum SAR: Body 2.4GHz(1 g): 0.92 W/kg
Body 5GHz(1 g): 1.14 W/kg
Body 6GHz(1 g): 1.16 W/kg
Maximum APD: APD(4cm²): 6.63 W/m²
Sample Arrival Date: Nov. 22, 2024
Test Date: Dec. 12, 2024 - Dec. 16, 2024
Date of Issue: Jan. 15, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Guo Guangwei

Checked by: Xu Rui

Approved by: Tolan Tu
(Testing Director)

Guo Guangwei

Xu Rui

Tolan Tu

Revision History		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jan. 15, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
1.3	Test Environment Condition	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Ancillary Equipment	6
2.5	Technical Information	6
3	SUMMARY OF TEST RESULT	8
3.1	Test Standards	8
3.2	Device Category and SAR Limit	9
3.3	Device Category and APD Limit	10
3.4	Test Result Summary	11
3.5	Test Uncertainty	12
4	MEASUREMENT SYSTEM	17
4.1	Specific Absorption Rate (SAR) Definition	17
4.2	DASY SAR System	18
5	SYSTEM VERIFICATION	25
5.1	Purpose of System Check	25
5.2	System Check Setup	25
6	TEST POSITION CONFIGURATIONS	26
6.1	Laptop Exposure Condition	26

6.2	Tablet Exposure Condition	27
7	MEASUREMENT PROCEDURE	28
7.1	Measurement Process Diagram	28
7.2	SAR Scan General Requirement	29
7.3	Measurement Procedure	30
7.4	Area & Zoom Scan Procedure	30
7.5	Interim Procedures for WIFI 6E	30
8	CONDUCTED RF OUPUT POWER	31
8.1	WIFI	31
8.2	Bluetooth	121
9	TEST EXCLUSION CONSIDERATION	122
9.1	Antenna Location Sketch	122
9.2	SAR Test Exclusion Consideration Table	124
10	TEST RESULT	129
10.1	Bluetooth	130
10.2	WIFI 2.4GHz	131
10.3	WIFI 5GHz	132
10.4	WIFI 6GHz	134
11	SIMULTANEOUS TRANSMISSION	135
11.1	Simultaneous Transmission Mode Considerations	136
11.2	Body Simultaneous Transmission SAR Evaluation	137
12	TEST EQUIPMENTS LIST	144
ANNEX A	SIMULATING LIQUID VERIFICATION RESULT	145
ANNEX B	SYSTEM CHECK RESULT	146
ANNEX C	TEST DATA	157
ANNEX D	EUT EXTERNAL PHOTOS	183
ANNEX E	SAR TEST SETUP PHOTOS	183
ANNEX F	CALIBRATION REPORT	183
ANNEX G	TUNE-UP PROCEDURE	183

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 11524A and CAB identifier number is CN0030.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

2.2 Manufacturer Information

Manufacturer	Realtek Semiconductor Corp.
Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	11be RTL8922AE Combo module
Model Name Under Test	RTL8922AE
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.3.1 Host Information:

Product Name	Notebook Computer
Model Name	Yoga 7 2-in-1 14AKP10
Brand Name	Lenovo

2.3.2 Antenna Information:

Antenna Port	Model Name	Antenna Manufacturer	Antenna Type	Antenna Gain (dBi)								
				2.4 GHz	5.15-5.25 GHz	5.25-5.35 GHz	5.47-5.725 GHz	5.725-5.895 GHz	5.925-6.425 GHz	6.425 - 6.525 GHz	6.525 - 6.875 GHz	6.875 - 7.125 GHz
Main Antenna	AYL6Y-100053	AWAN	PIFA	1.70	2.71	2.04	3.09	2.91	3.15	3.06	3.06	3.08
Auxiliary Antenna	AYL6Y-100052		PIFA	2.30	2.97	2.97	3.07	3.07	3.12	2.95	3.01	2.71
Main Antenna	L01RF454-NB-H	Luxshare-ICT	PIFA	-1.29	0.06	-0.35	2.40	2.64	2.72	2.74	2.27	2.93
Auxiliary Antenna	L01RF453-NB-H		PIFA	-0.01	2.58	2.58	1.98	1.49	2.08	1.28	1.81	1.22

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, VHT, 802.11ac, 802.11ax and 802.11be
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN; 5G WLAN; 6G WLAN; Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2472 MHz
	VHT20/VHT40	2412 ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 ~ 2472 MHz
	802.11be(EHT20/EHT40)	2412 ~ 2472 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ax(HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11be(EHT20/EHT40/EHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)/ 802.11be(EHT160)	5150 ~ 5250 MHz
		5815 ~ 5885 MHz
	802.11a/	5925 ~ 6425 MHz

	802.11ax(HE20/HE40/HE80/HE160)	6425 ~ 6525 MHz
		6525 ~ 6875 MHz
	802.11be(EHT20/EHT40/EHT80/EHT160)	6875 ~ 7125 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WLAN	PIFA
	Bluetooth	PIFA
Hotspot Function	N/A	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
2	RSS-102.SAR.MEAS	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102
3	IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
4	KDB 447498 D01 v06	447498 D01 General RF Exposure Guidance
5	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
6	KDB 616217 D04 v01r02	SAR for laptop and tablets

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue and 4.0 W/kg as averaged over any 10 gram of tissue.

Table of Exposure Limits:

Body Region	Average SAR (W/kg)	Averaging Time (minutes) ²⁰	Mass Average (g)
Whole Body	0.08	6	Whole Body
Localized Head, Neck and Trunk	1.6	6	1
Localized Limbs	4.0	6	10

3.3 Device Category and APD Limit

For localized exposures to radiofrequency EMF in the 6 GHz to 300 GHz frequency range, Health Canada's recommendations are as follows:

Basic restrictions for local electromagnetic field exposure above 6 GHz up to 300 GHz

Exposure scenario	Exposure duration (t)	Local absorbed energy density [kJ/m ²]	Local absorbed power density [W/m ²]
Controlled Environment	0 sec < t < 360 sec	36* [0.05+0.95(t/360) ^{0.5}]	n/a
	t ≥ 6 min	n/a	100
Uncontrolled Environment	0 sec < t < 360 sec	7.2* [0.05+0.95(t/360) ^{0.5}]	n/a
	t ≥ 6 min	n/a	20

Notes:

1. "n/a" signifies "not applicable" and does not need to be taken into account when determining compliance.
2. "t" is time in seconds, and restrictions must be satisfied for all values of t between >0 s and <360 s, regardless of the temporal characteristics of the exposure itself.
3. Local absorbed power density exposures are to be averaged over 6 min.
4. Local absorbed power density is to be averaged over a square 4-cm² surface area of the body. Above 30 GHz, an additional constraint is imposed, such that the spatial peak exposure is restricted to two times that of the 4-cm² restriction.
5. Local absorbed energy density is to be averaged over a square 4-cm² surface area of the body. Above 30 GHz, an additional constraint is imposed, such that the spatial peak exposure is restricted to 72[0.025+0.975(t/360)^{0.5}] kJ/m² for controlled environment and 14.4[0.025+0.975(t/360)^{0.5}] kJ/m² for uncontrolled environment exposure.
6. Exposure from any pulse, group of pulses, or subgroup of pulses in a train, as well as from the summation of exposures (including non-pulsed EMFs), delivered in t s, where t is the sum of all periods in which there is non-zero exposure, must not exceed these levels.

3.4 Test Result Summary

3.4.1 Highest SAR (1 g Value)

Equipment Class	Band	Antenna	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)	
			Body (0mm)	Body (0mm)	
DTS	2.4G WIFI	Aux.	0.88	1.16	
	2.4G WIFI	Main	0.92		
U-NII-2A	5.3G WIFI	Aux.	0.93		
	5.3G WIFI	Main	0.67		
U-NII-2C	5.6G WIFI	Aux.	0.90		
	5.6G WIFI	Main	0.76		
U-NII-3	5.8G WIFI	Aux.	1.14		
	5.8G WIFI	Main	1.12		
U-NII-4	5.9G WIFI	Aux.	1.07		
	5.9G WIFI	Main	1.03		
U-NII-5/6/7/8	6G WIFI	Aux.	1.08		
	6G WIFI	Main	1.16		
DSS	Bluetooth	Aux.	0.44		
Limit (W/kg)			1.60		
Verdict			Pass		

3.4.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Equipment Class	Maximum Report SAR (W/kg)	SPLSR
	Body (0mm)	
DTS	2.05	0.01
NII	2.61	0.02
DSS	2.61	0.02
Limit (W/kg)	1.60	0.04
Verdict	Pass	

Note: The simultaneous transmission SAR detail please refer to section 11.

3.4.3 Highest APD (4cm²) (Body)

Band	Antenna	Maximum Scaled APD (W/m ²)	Maximum Report APD (W/m ²)
		Body (0mm)	Body (0mm)
6G WIFI	Aux.	5.93	6.63
6G WIFI	Main	6.63	
Limit (W/m ²)		20.00	
Verdict		Pass	

3.5 Test Uncertainty

3.5.1 Measurement uncertainty evaluation for SAR test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEC/IEEE 62209-1528:2020 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1) System Measurement Uncertainty (frequency range from 300 MHz to 3 GHz)

DASY8 Uncertainty Budget (Frequency band: 300 MHz–3 GHz range)								
Symbol	Error Description	Uncert. value	Prob.Dis t.	Div.	(ci)(1 g)	(ci)(10 g)	Std. Unc. (1 g)	Std. Unc. (10 g)
Measurement System Errors								
CF	Probe Calibration	$\pm 12.0\%$	N	2	1	1	$\pm 6.0\%$	$\pm 6.0\%$
CF _{drift}	Probe Calibration Drift	$\pm 1.7\%$	R	$\sqrt{3}$	1	1	$\pm 1.0\%$	$\pm 1.0\%$
LIN	Probe Linearity	$\pm 4.7\%$	R	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$
BBS	Broadband Signal	$\pm 3.0\%$	R	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$
ISO	Probe Isotropy	$\pm 7.6\%$	R	$\sqrt{3}$	1	1	$\pm 4.4\%$	$\pm 4.4\%$
DAE	Other Probe+Electronic	$\pm 0.7\%$	N	1	1	1	$\pm 0.7\%$	$\pm 0.7\%$
AMB	RF Ambient	$\pm 1.8\%$	N	1	1	1	$\pm 1.8\%$	$\pm 1.8\%$
Δ_{sys}	Probe Positioning	$\pm 0.006 \text{ mm}$	N	1	0.14	0.14	$\pm 0.10\%$	$\pm 0.10\%$
DAT	Data Processing	$\pm 1.2\%$	N	1	1	1	$\pm 1.2\%$	$\pm 1.2\%$
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) _{DAK}	$\pm 2.5\%$	N	1	0.78	0.71	$\pm 2.0\%$	$\pm 1.8\%$
LIQ($T\sigma$)	Conductivity (temp.) _{BB}	$\pm 3.3\%$	R	$\sqrt{3}$	0.78	0.71	$\pm 1.5\%$	$\pm 1.4\%$
EPS	Phantom Permittivity	$\pm 14.0\%$	R	$\sqrt{3}$	0	0	$\pm 0\%$	$\pm 0\%$
DIS	Distance DUT – TSL	$\pm 2.0\%$	N	1	2	2	$\pm 4.0\%$	$\pm 4.0\%$
Dxyz	Device Positioning	$\pm 1.0\%$	N	1	1	1	$\pm 1.0\%$	$\pm 1.0\%$
H	Device Holder	$\pm 3.6\%$	N	1	1	1	$\pm 3.6\%$	$\pm 3.6\%$
MOD	DUT Modulation _m	$\pm 2.4\%$	R	$\sqrt{3}$	1	1	$\pm 1.4\%$	$\pm 1.4\%$
TAS	Time-average SAR	$\pm 1.7\%$	R	$\sqrt{3}$	1	1	$\pm 1.0\%$	$\pm 1.0\%$
RF _{drift}	DUT drift	$\pm 2.5\%$	N	1	1	1	$\pm 2.5\%$	$\pm 2.5\%$
VAL	Val Antenna Unc. _{val}	$\pm 0.0\%$	N	1	1	1	$\pm 0\%$	$\pm 0\%$
RF _{in}	Unc. Input Power _{val}	$\pm 0.0\%$	N	1	1	1	$\pm 0\%$	$\pm 0\%$
Correction to the SAR results								
C(ε, σ)	Deviation to Target	$\pm 1.9\%$	N	1	1	0.84	$\pm 1.9\%$	$\pm 1.6\%$
C(R)	SAR scaling _p	$\pm 0\%$	R	$\sqrt{3}$	1	1	$\pm 0\%$	$\pm 0\%$
u(Δ SAR)	Combined Uncertainty						$\pm 10.9\%$	$\pm 10.9\%$
U	Expanded Uncertainty						$\pm 21.9\%$	$\pm 21.8\%$

2) System Measurement Uncertainty (frequency range from 3 GHz to 6 GHz)

DASY8 Uncertainty Budget (Frequency band: 3 GHz–6 GHz range)								
Symbol	Error Description	Uncert. value	Prob.Dis t.	Div.	(ci)(1 g)	(ci)(10 g)	Std. Unc. (1 g)	Std. Unc. (10 g)
Measurement System Errors								
CF	Probe Calibration	±13.1%	N	2	1	1	±6.55%	±6.55%
CF _{drift}	Probe Calibration Drift	±1.7%	R	√3	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.6%	R	√3	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±1.2%	N	1	1	1	±1.2%	±1.2%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.005 mm	N	1	0.29	0.29	±0.15%	±0.15%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.25	0.25	±2.0%	±2.0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	√3	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0%	±0%
RF _{in}	Unc. Input Power ^{val}	±0.0%	N	1	1	1	±0%	±0%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty						±11.6%	±11.5%
U	Expanded Uncertainty						±23.3%	±23.0%

3) Measurement uncertainty evaluation for SAR test (6GHz to 10GHz)

DASY8 Uncertainty Budget								
(Frequency band: 6 GHz–10 GHz range)								
Symbol	Error Description	Uncert. value	Prob.Dis t.	Div.	(ci)(1 g)	(ci)(10 g)	Std. Unc. (1 g)	Std. Unc. (10 g)
Measurement System Errors								
CF	Probe Calibration	±18.6%	N	2	1	1	±9.3%	±9.3%
CF _{drift}	Probe Calibration Drift	±1.7%	R	√3	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.8%	R	√3	1	1	±1.6%	±1.6%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±2.4%	N	1	1	1	±2.4%	±2.4%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.005 mm	N	1	0.5	0.5	±0.25%	±0.25%
DAT	Data Processing	±3.5%	N	1	1	1	±3.5%	±3.5%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(Tσ)	Conductivity (temp.) ^{BB}	±2.4%	R	√3	0.78	0.71	±1.1%	±1.0%
EPS	Phantom Permittivity	±14.0%	R	√3	0.5	0.5	±4.0%	±4.0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	√3	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0%	±0%
RF _{in}	Unc. Input Power ^{val}	±0.0%	N	1	1	1	±0%	±0%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty						±14.2%	±13.9%
U	Expanded Uncertainty						±28.4%	±27.9%

Uncertainty budget for absorbed power density:

DASY8 Uncertainty Budget								
Symbol	Error Description	Uncert. Value	Prob Dist.	Div.	(ci) 1cm2	(ci) 4cm2	Std Unc. 1cm2	Std Unc. 4cm2
psSAR	Module SAR MU	± 14.4%	N	1	1	1	± 14.4%	± 14.4%
PDC	Power Density Conversion	± 13.5%	R	√ 3	1	1	± 7.8%	± 7.8%
Combined Std. Uncertainty							± 16.38%	± 16.38%
Expanded STD Uncertainty							± 32.76% ± 1.23dB	± 32.76% ± 1.23dB

3.5.2 Measurement uncertainty evaluation for system check

This measurement uncertainty budget is suggested by IEC/IEEE 62209-1528. The break down of the individual uncertainties is as follows:

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10 g)	1g Ui (+-%)	10 g Ui (+-%)	Vi Veff
Measurement System								
Probe calibration	6.7	N	1	1	1	6.70	6.70	∞
Axial Isotropy	4.7	R	$\sqrt{3}$	0.7	0.7	1.90	1.90	∞
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0.7	0.7	3.88	3.88	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0.0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Readout Electronics	0.3	N	1	1	1	0.30	0.30	∞
Response Time	0.0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	0.0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
RF ambient Conditions - Noise	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
RF ambient Conditions - Reflections	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Probe positioner Mechanical Tolerance	0.8	R	$\sqrt{3}$	1	1	0.46	0.46	∞
Probe positioning with respect to Phantom Shell	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Test sample Related								
Deviation of exp. dipole	5.5	R	$\sqrt{3}$	1	1	3.18	3.18	∞
Dipole Axis to Liquid Dist.	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Input power & SAR drift	3.4	R	$\sqrt{3}$	1	1	1.96	1.96	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (Shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Liquid conductivity (deviation from target values)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.03	∞
Liquid conductivity - measurement uncertainty	5.0	N	1	0.78	0.71	3.90	3.55	∞
Liquid permittivity (deviation from target values)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity - measurement uncertainty	5.0	N	1	0.23	0.26	1.15	1.30	∞
Combined Standard Uncertainty	/	/	RSS			11.29	11.18	/
Expanded Uncertainty (95% Confidence interval)	/	k	2			22.57	22.36	/

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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.

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 measurement can be related to the electrical field in the tissue by

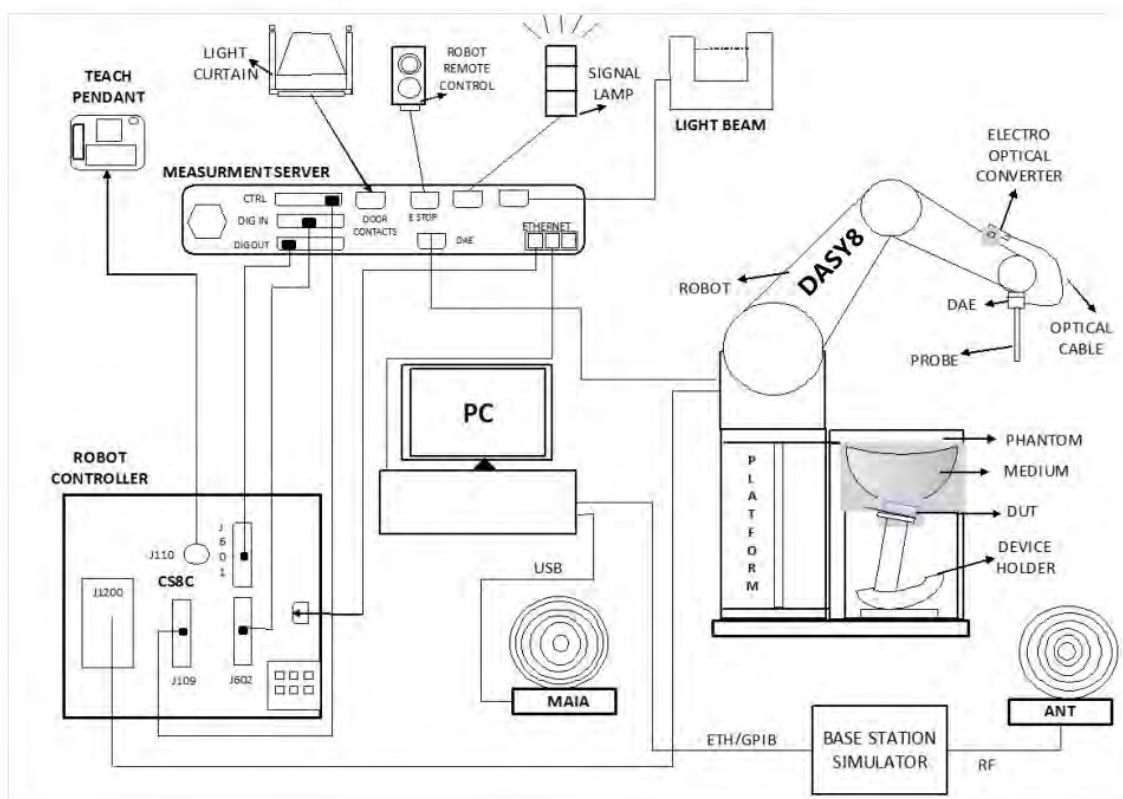
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 SN: 7893 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis); ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

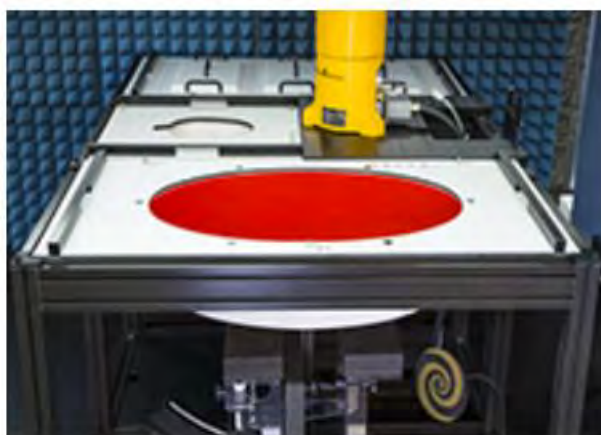
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through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



- Input Impedance: 200M Ω
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI V8.0 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI V8.0 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



• Flat phantom

Photo of Phantom SN2159



Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis(mm)
SN 2159 ELI V8.0	2.0 ± 0.2	600	400

4.2.6 Device Holder

The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . 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. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

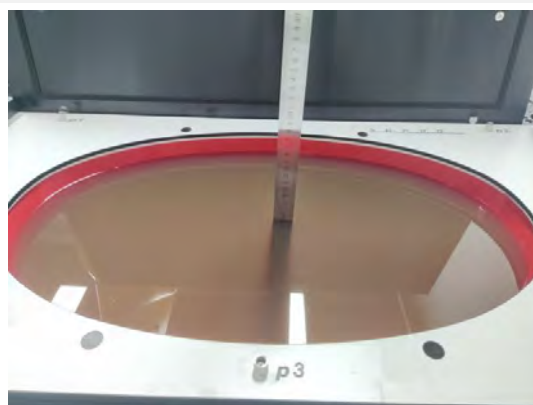
4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

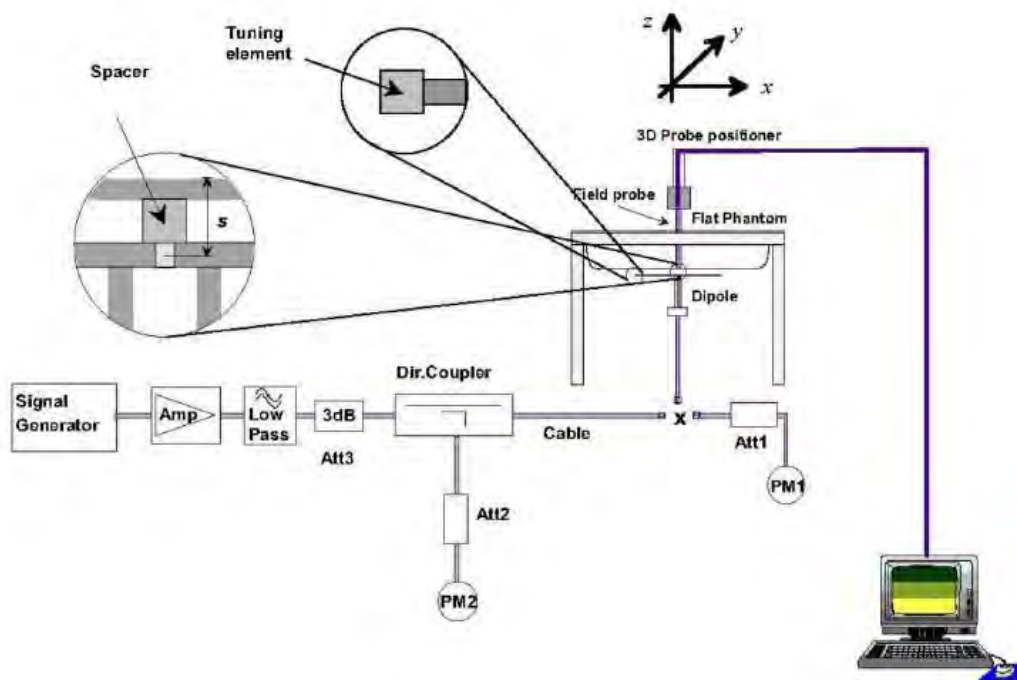
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

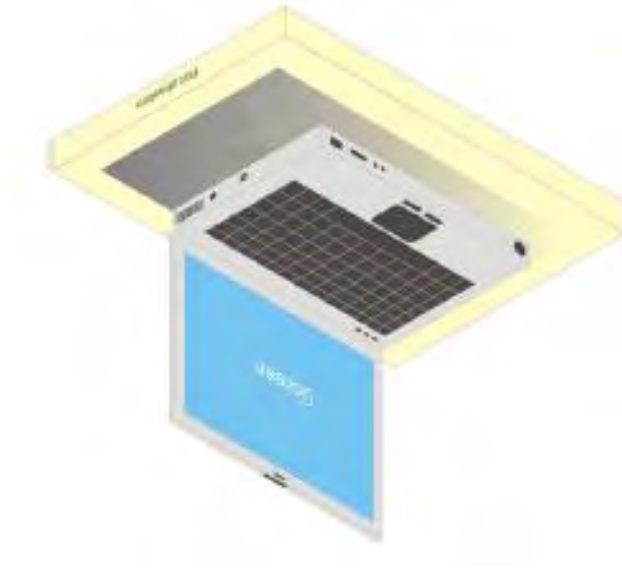
In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

6.1 Laptop Exposure Condition

This DUT should consider one position which is bottom of laptop touching with phantom 0 mm air gap and the screen portion of the device shall be an open position at a 90° angle.



6.2 Tablet Exposure Condition

This DUT was tested in three different positions. They are Bottom Edge, Bottom Side and Keyboard Side in these positions, the surface of DUT is touching with phantom 0mm.

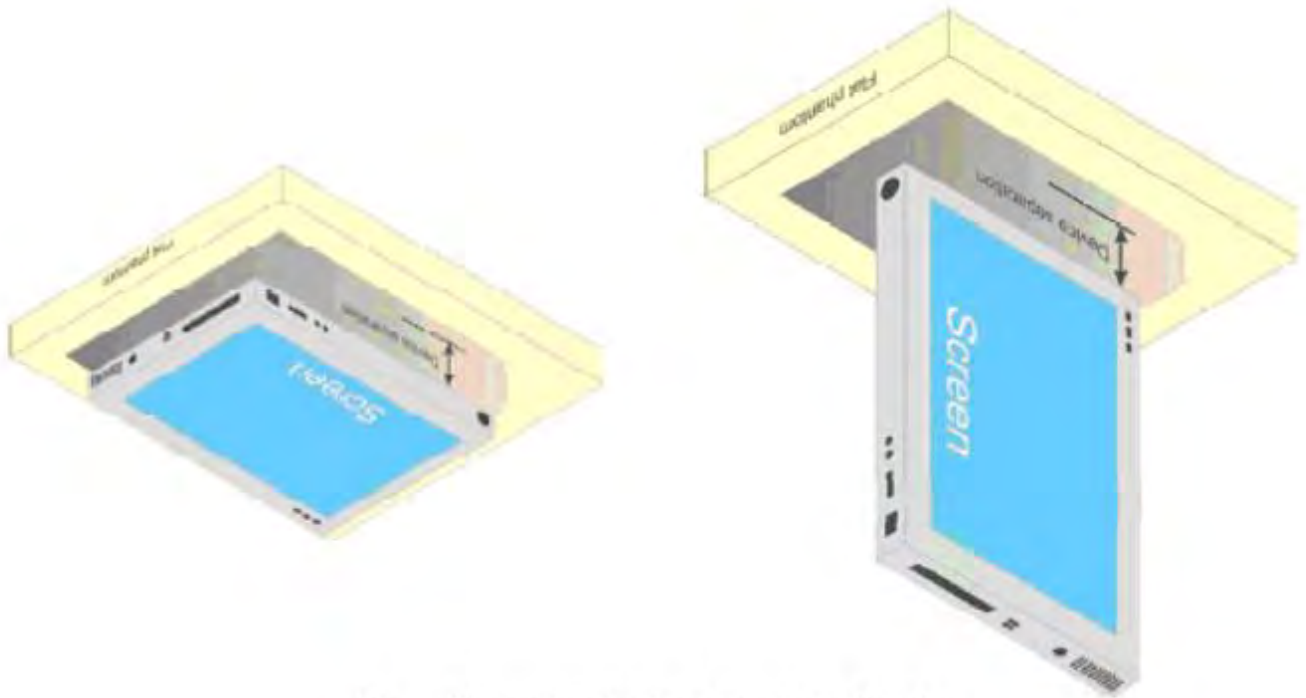
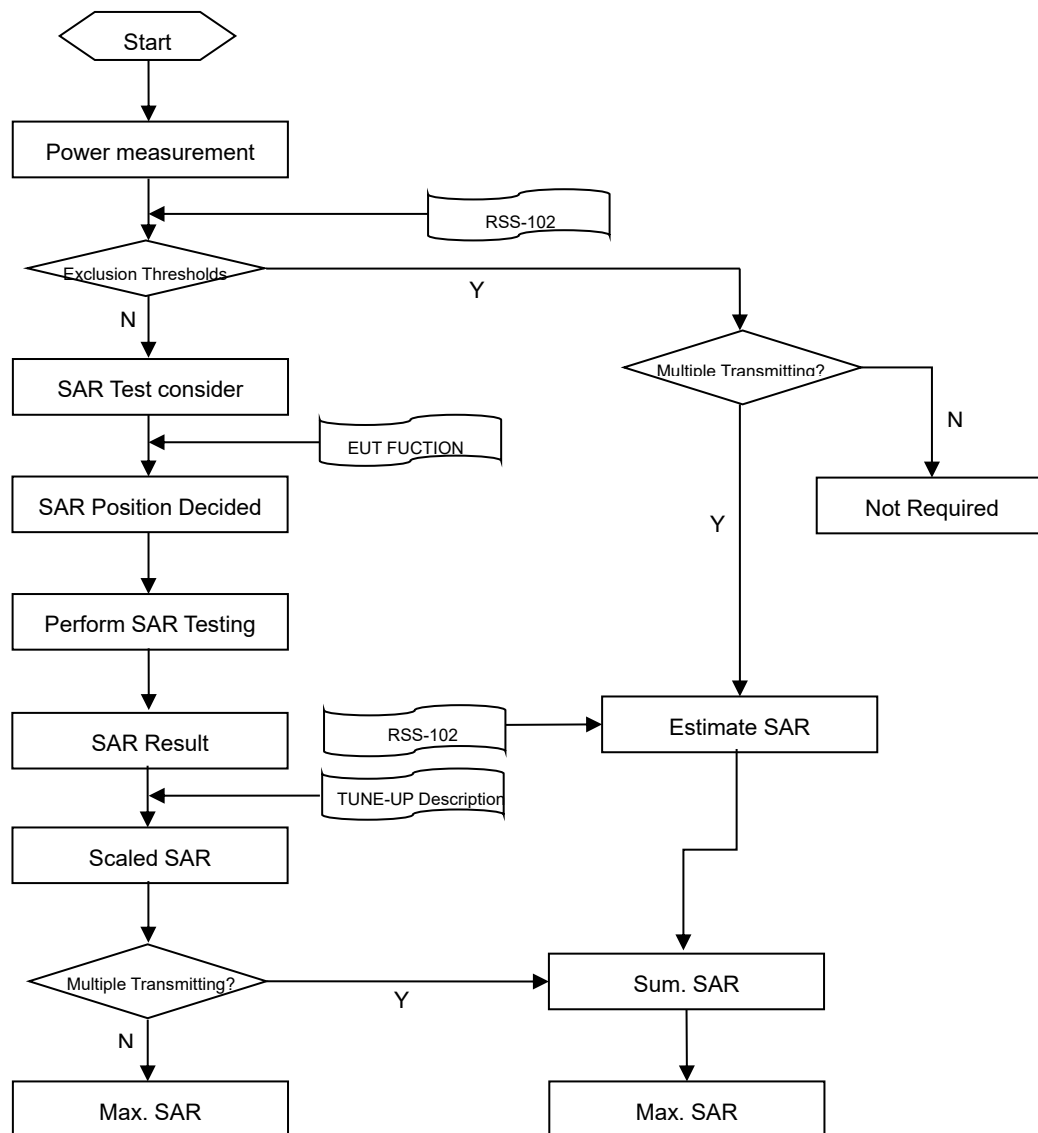


Fig Illustration for Lap-touching Position

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g or 10 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEC/IEEE 62209-1528:2020.

Area scan Parameter	≤3GHz	3 GHz < f ≤ 10 GHz
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface	5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum spacing between adjacent measured points in mm	20, or half of the corresponding zoom scan length, whichever is smaller	60 / f, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium.		

Zoom scan Parameter	≤3GHz	3 GHz < f ≤ 10 GHz
Maximum distance between the closest measured points and the phantom surface	5 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm
Maximum angle between the probe axis and the phantom surface normal	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x- and y-directions (Δx and Δy , in mm)	8 mm	24 / f mm
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell	5 mm	10 / (f - 1)
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell	4 mm	12 / f mm
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell	1.5 mm	1.5 mm
Minimum edge length of the zoom scan volume in the x- and y-directions	30 mm	22 mm
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell	30 mm	22 mm
Tolerance in the probe angle	1°	1°
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium.		

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 1 g or 10 g. Area scan and zoom scan resolution setting follows IEC/IEEE 62209-1528:2020 quoted below.

When the 1 g or 10 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 Interim Procedures for WIFI 6E

Interim procedures for FCC radio frequency (RF) exposure evaluations of U-NII 6-7 GHz band portable devices have been made available during the TCB workshop in April 2021. The procedure is summarized below:

Evaluate SAR / APD with DASY6 Module SAR V16.0 or higher. The configurations to be tested are defined in the relevant Knowledge Database (KDB). The psSAR and absorbed psPD are reported.

8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	15.81	16.00	Yes
		6	2437	15.77	16.00	Yes
		11	2462	15.80	16.00	Yes
		12	2467	14.22	15.00	No
		13	2472	11.54	12.00	No
	802.11g	1	2412	15.59	16.00	No
		6	2437	15.49	16.00	No
		11	2462	15.53	16.00	No
		12	2467	15.73	16.00	No
		13	2472	15.64	16.00	No
	VHT20	1	2412	15.47	16.00	No
		6	2437	15.52	16.00	No
		11	2462	15.75	16.00	No
		12	2467	15.66	16.00	No
		13	2472	15.67	16.00	No
	VHT40	3	2422	15.70	16.00	No
		6	2437	15.62	16.00	No
		9	2452	15.53	16.00	No
		10	2457	15.68	16.00	No
		11	2462	15.49	16.00	No
	802.11ax(HE20) (SU)	1	2412	15.50	16.00	No
		6	2437	15.51	16.00	No
		11	2462	15.50	16.00	No
		12	2467	15.56	16.00	No
		13	2472	15.57	16.00	No
	802.11ax(HE40) (SU)	3	2422	15.53	16.00	No
		6	2437	15.54	16.00	No
		9	2452	15.71	16.00	No
		10	2457	15.54	16.00	No
		11	2462	15.55	16.00	No
	802.11be(EHT20) (SU)	1	2412	15.63	16.00	No
		6	2437	15.55	16.00	No
		11	2462	15.48	16.00	No
		12	2467	15.56	16.00	No
		13	2472	15.68	16.00	No

	802.11be(EHT40) (SU)	3	2422	15.72	16.00	No
		6	2437	15.67	16.00	No
		9	2452	15.59	16.00	No
		10	2457	15.64	16.00	No
		11	2462	15.65	16.00	No
	802.11be(EHT20) (RU26)/0	1	2412	15.58	16.00	No
	802.11be(EHT20) (RU26)/4	6	2437	15.51	16.00	No
	802.11be(EHT20) (RU26)/8	11	2462	15.47	16.00	No
	802.11be(EHT20) (RU26)/8	12	2467	15.70	16.00	No
	802.11be(EHT20) (RU26)/8	13	2472	13.70	14.00	No
	802.11be(EHT20) (RU52)/37	1	2412	15.50	16.00	No
	802.11be(EHT20) (RU52)/39	6	2437	15.63	16.00	No
	802.11be(EHT20) (RU52)/40	11	2462	15.57	16.00	No
	802.11be(EHT20) (RU52)/40	12	2467	15.66	16.00	No
	802.11be(EHT20) (RU52)/40	13	2472	15.08	15.50	No
	802.11be(EHT20) (RU106)/53	1	2412	15.64	16.00	No
	802.11be(EHT20) (RU106)/53	6	2437	15.56	16.00	No
	802.11be(EHT20) (RU106)/54	11	2462	15.75	16.00	No
	802.11be(EHT20) (RU106)/53	12	2467	15.68	16.00	No
	802.11be(EHT20) (RU106)/54	13	2472	15.66	16.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 0.820 * (39.81mW/39.81mW) = 0.820 W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.1 2.4G WIFI (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	15.98	16.00	Yes
		6	2437	15.58	16.00	Yes
		11	2462	15.68	16.00	Yes
		12	2467	14.55	15.00	No
		13	2472	11.50	12.00	No
	802.11g	1	2412	15.72	16.00	No
		6	2437	15.67	16.00	No
		11	2462	15.59	16.00	No
		12	2467	15.46	16.00	No
		13	2472	15.72	16.00	No
	VHT20	1	2412	15.72	16.00	No
		6	2437	15.73	16.00	No
		11	2462	15.67	16.00	No
		12	2467	15.63	16.00	No
		13	2472	15.60	16.00	No
	VHT40	3	2422	15.71	16.00	No
		6	2437	15.55	16.00	No
		9	2452	15.55	16.00	No
		10	2457	15.73	16.00	No
		11	2462	15.46	16.00	No
	802.11ax(HE20) (SU)	1	2412	15.75	16.00	No
		6	2437	15.63	16.00	No
		11	2462	15.64	16.00	No
		12	2467	15.75	16.00	No
		13	2472	15.60	16.00	No
	802.11ax(HE40) (SU)	3	2422	15.53	16.00	No
		6	2437	15.62	16.00	No
		9	2452	15.75	16.00	No
		10	2457	15.52	16.00	No
		11	2462	15.69	16.00	No
	802.11be(EHT20) (SU)	1	2412	15.72	16.00	No
		6	2437	15.56	16.00	No
		11	2462	15.50	16.00	No
		12	2467	15.53	16.00	No
		13	2472	15.50	16.00	No
	802.11be(EHT40) (SU)	3	2422	15.64	16.00	No
		6	2437	15.54	16.00	No
		9	2452	15.57	16.00	No
		10	2457	15.58	16.00	No

		11	2462	15.54	16.00	No
	802.11be(EHT20) (RU26)/0	1	2412	15.50	16.00	No
	802.11be(EHT20) (RU26)/4	6	2437	15.70	16.00	No
	802.11be(EHT20) (RU26)/8	11	2462	15.54	16.00	No
	802.11be(EHT20) (RU26)/8	12	2467	15.70	16.00	No
	802.11be(EHT20) (RU26)/8	13	2472	13.60	14.00	No
	802.11be(EHT20) (RU52)/37	1	2412	15.72	16.00	No
	802.11be(EHT20) (RU52)/39	6	2437	15.61	16.00	No
	802.11be(EHT20) (RU52)/40	11	2462	15.73	16.00	No
	802.11be(EHT20) (RU52)/40	12	2467	15.50	16.00	No
	802.11be(EHT20) (RU52)/40	13	2472	15.07	15.50	No
	802.11be(EHT20) (RU106)/53	1	2412	15.52	16.00	No
	802.11be(EHT20) (RU106)/53	6	2437	15.56	16.00	No
	802.11be(EHT20) (RU106)/54	11	2462	15.47	16.00	No
	802.11be(EHT20) (RU106)/53	12	2467	15.54	16.00	No
	802.11be(EHT20) (RU106)/54	13	2472	15.46	16.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = $0.917 * (39.81\text{mW}/39.81\text{mW}) = 0.917$ W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.2 2.4G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	18.59	19.00	No
		6	2437	18.51	19.00	No
		11	2462	18.55	19.00	No
		12	2467	15.21	15.50	No
		13	2472	11.45	12.00	No
	802.11g	1	2412	18.46	19.00	No
		6	2437	18.62	19.00	No
		11	2462	18.58	19.00	No
		12	2467	18.72	19.00	No
		13	2472	18.72	19.00	No
	VHT20	1	2412	18.70	19.00	No
		6	2437	18.62	19.00	No
		11	2462	18.63	19.00	No
		12	2467	18.49	19.00	No
		13	2472	18.70	19.00	No
	VHT40	3	2422	18.55	19.00	No
		6	2437	18.67	19.00	No
		9	2452	18.70	19.00	No
		10	2457	18.71	19.00	No
		11	2462	18.70	19.00	No
	802.11ax(HE20) (SU)	1	2412	18.46	19.00	No
		6	2437	18.51	19.00	No
		11	2462	18.62	19.00	No
		12	2467	18.51	19.00	No
		13	2472	18.53	19.00	No
	802.11ax(HE40) (SU)	3	2422	18.64	19.00	No
		6	2437	18.63	19.00	No
		9	2452	18.48	19.00	No
		10	2457	18.20	18.50	No
		11	2462	18.03	18.50	No
	802.11be(EHT20) (SU)	1	2412	18.65	19.00	No
		6	2437	18.62	19.00	No
		11	2462	18.63	19.00	No
		12	2467	18.68	19.00	No
		13	2472	18.60	19.00	No
	802.11be(EHT40) (SU)	3	2422	18.65	19.00	No
		6	2437	18.58	19.00	No
		9	2452	18.66	19.00	No
		10	2457	18.58	19.00	No

		11	2462	18.66	19.00	No
	802.11be(EHT20) (RU26)/0	1	2412	18.67	19.00	No
	802.11be(EHT20) (RU26)/4	6	2437	18.56	19.00	No
	802.11be(EHT20) (RU26)/8	11	2462	18.67	19.00	No
	802.11be(EHT20) (RU26)/8	12	2467	18.59	19.00	No
	802.11be(EHT20) (RU26)/8	13	2472	16.09	16.50	No
	802.11be(EHT20) (RU52)/37	1	2412	18.53	19.00	No
	802.11be(EHT20) (RU52)/39	6	2437	18.49	19.00	No
	802.11be(EHT20) (RU52)/40	11	2462	18.49	19.00	No
	802.11be(EHT20) (RU52)/40	12	2467	18.57	19.00	No
	802.11be(EHT20) (RU52)/40	13	2472	16.74	17.00	No
	802.11be(EHT20) (RU106)/53	1	2412	18.61	19.00	No
	802.11be(EHT20) (RU106)/53	6	2437	18.45	19.00	No
	802.11be(EHT20) (RU106)/54	11	2462	18.62	19.00	No
	802.11be(EHT20) (RU106)/53	12	2467	18.00	18.50	No
	802.11be(EHT20) (RU106)/54	13	2472	17.52	18.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤ 0.04 the MIMO SAR test is not required.

8.1.3 5G WIFI (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	13.08	13.50	No
		40	5200	12.98	13.50	No
		48	5240	12.95	13.50	No
	802.11n(HT20)	36	5180	13.16	13.50	No
		40	5200	12.95	13.50	No
		48	5240	13.24	13.50	No
	802.11n(HT40)	38	5190	13.16	13.50	No
		46	5230	13.08	13.50	No
	802.11ac(VHT20)	36	5180	13.01	13.50	No
		40	5200	13.20	13.50	No
		48	5240	13.13	13.50	No
	802.11ac(VHT40)	38	5190	13.09	13.50	No
		46	5230	13.19	13.50	No
	802.11ac(VHT80)	42	5210	13.14	13.50	No
	802.11ac(VHT160)	50	5250	10.70	11.00	No
	802.11ax(HE20) (SU)	36	5180	13.23	13.50	No
		40	5200	13.13	13.50	No
		48	5240	12.98	13.50	No
	802.11ax(HE40) (SU)	38	5190	13.04	13.50	No
		46	5230	13.19	13.50	No
	802.11ax(HE80) (SU)	42	5210	13.05	13.50	No
	802.11ax(HE160) (SU)	50	5250	10.59	11.00	No
	802.11be(EHT20) (SU)	36	5180	12.97	13.50	No
		40	5200	13.00	13.50	No
		48	5240	13.24	13.50	No
	802.11be(EHT40) (SU)	38	5190	13.03	13.50	No
		46	5230	13.01	13.50	No
	802.11be(EHT80) (SU)	42	5210	13.07	13.50	No
	802.11be(EHT160) (SU)	50	5250	10.53	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	11.66	12.00	No
	802.11ax(HE20) (RU26)/4	40	5200	13.08	13.50	No
	802.11ax(HE20) (RU26)/8	48	5240	13.13	13.50	No
	802.11ax(HE20)	36	5180	13.12	13.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	13.05	13.50	No
	802.11ax(HE20) (RU52)/40	48	5240	13.20	13.50	No
	802.11ax(HE20) (RU106)/53	36	5180	13.12	13.50	No
	802.11ax(HE20) (RU106)/53	40	5200	13.16	13.50	No
	802.11ax(HE20) (RU106)/54	48	5240	13.00	13.50	No
	802.11be(EHT20) (RU26)/0	36	5180	11.50	12.00	No
	802.11be(EHT20) (RU26)/4	40	5200	13.22	13.50	No
	802.11be(EHT20) (RU26)/8	48	5240	13.00	13.50	No
	802.11be(EHT20) (RU52)/37	36	5180	13.13	13.50	No
	802.11be(EHT20) (RU52)/39	40	5200	13.12	13.50	No
	802.11be(EHT20) (RU52)/40	48	5240	13.12	13.50	No
	802.11be(EHT20) (RU106)/53	36	5180	13.01	13.50	No
	802.11be(EHT20) (RU106)/53	40	5200	13.12	13.50	No
	802.11be(EHT20) (RU106)/54	48	5240	13.16	13.50	No
5.3	802.11a	52	5260	13.06	13.50	No
		60	5300	13.07	13.50	No
		64	5320	13.10	13.50	No
	802.11n(HT20)	52	5260	13.03	13.50	No
		60	5300	13.06	13.50	No
		64	5320	13.07	13.50	No
	802.11n(HT40)	54	5270	13.01	13.50	No
		62	5310	13.00	13.50	No
	802.11ac(VHT20)	52	5260	13.12	13.50	No
		60	5300	13.24	13.50	No
		64	5320	12.95	13.50	No
	802.11ac(VHT40)	54	5270	13.11	13.50	No
		62	5310	13.00	13.50	No
	802.11ac(VHT80)	58	5290	13.24	13.50	Yes

	802.11ax(HE20) (SU)	52	5260	13.15	13.50	No
		60	5300	12.99	13.50	No
		64	5320	13.18	13.50	No
	802.11ax(HE40) (SU)	54	5270	13.24	13.50	No
		62	5310	13.01	13.50	No
	802.11ax(HE80) (SU)	58	5290	13.19	13.50	No
	802.11be(EHT20) (SU)	52	5260	12.97	13.50	No
		60	5300	13.00	13.50	No
		64	5320	13.14	13.50	No
	802.11be(EHT40) (SU)	54	5270	13.03	13.50	No
		62	5310	12.97	13.50	No
	802.11be(EHT80) (SU)	58	5290	13.20	13.50	No
	802.11ax(HE20) (RU26)/0	52	5260	13.05	13.50	No
	802.11ax(HE20) (RU26)/4	60	5300	13.05	13.50	No
	802.11ax(HE20) (RU26)/8	64	5320	10.53	11.00	No
	802.11ax(HE20) (RU52)/37	52	5260	13.08	13.50	No
	802.11ax(HE20) (RU52)/39	60	5300	13.18	13.50	No
	802.11ax(HE20) (RU52)/40	64	5320	13.05	13.50	No
	802.11ax(HE20) (RU106)/53	52	5260	13.03	13.50	No
	802.11ax(HE20) (RU106)/53	60	5300	12.96	13.50	No
	802.11ax(HE20) (RU106)/54	64	5320	13.24	13.50	No
	802.11be(EHT20) (RU26)/0	52	5260	13.16	13.50	No
	802.11be(EHT20) (RU26)/4	60	5300	13.09	13.50	No
	802.11be(EHT20) (RU26)/8	64	5320	10.54	11.00	No
	802.11be(EHT20) (RU52)/37	52	5260	13.09	13.50	No
	802.11be(EHT20) (RU52)/39	60	5300	13.20	13.50	No
	802.11be(EHT20)	64	5320	13.23	13.50	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	12.96	13.50	No
	802.11be(EHT20) (RU106)/53	60	5300	13.07	13.50	No
	802.11be(EHT20) (RU106)/54	64	5320	13.12	13.50	No
5.6	802.11a	100	5500	10.46	11.00	No
		116	5580	10.68	11.00	No
		140	5700	10.64	11.00	No
		144	5720	10.72	11.00	No
	802.11n(HT20)	100	5500	10.72	11.00	No
		116	5580	10.55	11.00	No
		140	5700	10.54	11.00	No
		144	5720	10.52	11.00	No
	802.11n(HT40)	102	5510	10.71	11.00	No
		110	5550	10.60	11.00	No
		134	5670	10.70	11.00	No
		142	5710	10.55	11.00	No
	802.11ac(VHT20)	100	5500	10.73	11.00	No
		116	5580	10.65	11.00	No
		140	5700	10.54	11.00	No
		144	5720	10.65	11.00	No
	802.11ac(VHT40)	102	5510	10.49	11.00	No
		110	5550	10.63	11.00	No
		134	5670	10.70	11.00	No
		142	5710	10.54	11.00	No
	802.11ac(VHT80)	106	5530	10.85	11.00	Yes
		138	5690	10.64	11.00	Yes
	802.11ax(HE20) (SU)	100	5500	10.45	11.00	No
		116	5580	10.70	11.00	No
		140	5700	10.74	11.00	No
		144	5720	10.64	11.00	No
	802.11ax(HE40) (SU)	102	5510	10.51	11.00	No
		110	5550	10.49	11.00	No
		134	5670	10.71	11.00	No
		142	5710	10.48	11.00	No
	802.11ax(HE80) (SU)	106	5530	10.60	11.00	No
		138	5690	10.60	11.00	No
	802.11be(EHT20) (SU)	100	5500	10.59	11.00	No
		116	5580	10.60	11.00	No
		140	5700	10.59	11.00	No
		144	5720	10.52	11.00	No

	802.11be(EHT40) (SU)	102	5510	10.72	11.00	No
		110	5550	10.67	11.00	No
		134	5670	10.61	11.00	No
		142	5710	10.47	11.00	No
	802.11be(EHT80) (SU)	106	5530	10.45	11.00	No
		138	5690	10.51	11.00	No
	802.11ax(HE20) (RU26)/0	100	5500	9.48	10.00	No
	802.11ax(HE20) (RU26)/4	116	5580	10.54	11.00	No
	802.11ax(HE20) (RU26)/8	140	5700	8.62	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	10.56	11.00	No
	802.11ax(HE20) (RU52)/37	100	5500	10.61	11.00	No
	802.11ax(HE20) (RU52)/39	116	5580	10.72	11.00	No
	802.11ax(HE20) (RU52)/40	140	5700	10.51	11.00	No
	802.11ax(HE20) (RU52)/40	144	5720	10.66	11.00	No
	802.11ax(HE20) (RU106)/53	100	5500	10.61	11.00	No
	802.11ax(HE20) (RU106)/53	116	5580	10.72	11.00	No
	802.11ax(HE20) (RU106)/54	140	5700	10.60	11.00	No
	802.11ax(HE20) (RU106)/54	144	5720	10.67	11.00	No
	802.11be(EHT20) (RU26)/0	100	5500	9.66	10.00	No
	802.11be(EHT20) (RU26)/4	116	5580	10.55	11.00	No
	802.11be(EHT20) (RU26)/8	140	5700	8.71	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	10.46	11.00	No
	802.11be(EHT20) (RU52)/37	100	5500	10.68	11.00	No
	802.11be(EHT20) (RU52)/39	116	5580	10.69	11.00	No
	802.11be(EHT20)	140	5700	10.70	11.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	10.61	11.00	No
	802.11be(EHT20) (RU106)/53	100	5500	10.69	11.00	No
	802.11be(EHT20) (RU106)/53	116	5580	10.48	11.00	No
	802.11be(EHT20) (RU106)/54	140	5700	10.71	11.00	No
	802.11be(EHT20) (RU106)/54	144	5720	10.71	11.00	No
5.8	802.11a	149	5745	12.12	12.50	No
		157	5785	12.24	12.50	No
		165	5825	12.20	12.50	No
	802.11n(HT20)	149	5745	12.07	12.50	No
		157	5785	12.15	12.50	No
		165	5825	12.00	12.50	No
	802.11n(HT40)	151	5755	12.15	12.50	No
		159	5795	12.19	12.50	No
	802.11ac(VHT20)	149	5745	12.08	12.50	No
		157	5785	12.22	12.50	No
		165	5825	12.06	12.50	No
	802.11ac(VHT40)	151	5755	12.23	12.50	No
		159	5795	11.99	12.50	No
	802.11ac(VHT80)	155	5775	12.16	12.50	Yes
	802.11ax(HE20) (SU)	149	5745	12.23	12.50	No
		157	5785	12.05	12.50	No
		165	5825	12.14	12.50	No
	802.11ax(HE40) (SU)	151	5755	11.95	12.50	No
		159	5795	12.15	12.50	No
	802.11ax(HE80) (SU)	155	5775	12.24	12.50	No
	802.11be(EHT20) (SU)	149	5745	12.13	12.50	No
		157	5785	11.95	12.50	No
		165	5825	11.99	12.50	No
	802.11be(EHT40) (SU)	151	5755	12.15	12.50	No
		159	5795	12.12	12.50	No
	802.11be(EHT80) (SU)	155	5775	12.15	12.50	No
	802.11ax(HE20) (RU26)/0	149	5745	12.03	12.50	No
	802.11ax(HE20) (RU26)/4	157	5785	12.12	12.50	No

	802.11ax(HE20) (RU26)/8	165	5825	12.15	12.50	No
	802.11ax(HE20) (RU52)/37	149	5745	12.05	12.50	No
	802.11ax(HE20) (RU52)/39	157	5785	12.25	12.50	No
	802.11ax(HE20) (RU52)/40	165	5825	12.01	12.50	No
	802.11ax(HE20) (RU106)/53	149	5745	12.21	12.50	No
	802.11ax(HE20) (RU106)/54	157	5785	12.03	12.50	No
	802.11ax(HE20) (RU106)/54	165	5825	12.02	12.50	No
	802.11be(EHT20) (RU26)/0	149	5745	12.24	12.50	No
	802.11be(EHT20) (RU26)/4	157	5785	12.15	12.50	No
	802.11be(EHT20) (RU26)/8	165	5825	12.21	12.50	No
	802.11be(EHT20) (RU52)/37	149	5745	12.06	12.50	No
	802.11be(EHT20) (RU52)/39	157	5785	12.04	12.50	No
	802.11be(EHT20) (RU52)/40	165	5825	12.11	12.50	No
	802.11be(EHT20) (RU106)/53	149	5745	11.99	12.50	No
	802.11be(EHT20) (RU106)/53	157	5785	12.03	12.50	No
	802.11be(EHT20) (RU106)/54	165	5825	12.14	12.50	No
5.9	802.11a	169	5845	12.25	12.50	No
		173	5865	12.23	12.50	No
		177	5885	12.23	12.50	No
	802.11n(HT20)	169	5845	12.22	12.50	No
		173	5865	12.20	12.50	No
		177	5885	12.07	12.50	No
	802.11n(HT40)	167	5835	12.10	12.50	No
		175	5875	12.08	12.50	No
	802.11ac(VHT20)	169	5845	12.20	12.50	No
		173	5865	11.96	12.50	No
		177	5885	12.12	12.50	No

	802.11ac(VHT40)	167	5835	12.07	12.50	No
		175	5875	12.23	12.50	No
	802.11ac(VHT80)	171	5855	12.15	12.50	No
	802.11ac(VHT160)	163	5815	12.16	12.50	Yes
	802.11ax(HE20) (SU)	169	5845	12.00	12.50	No
		173	5865	12.18	12.50	No
		177	5885	12.25	12.50	No
	802.11ax(HE40) (SU)	167	5835	12.04	12.50	No
		175	5875	12.22	12.50	No
	802.11ax(HE80) (SU)	171	5855	12.00	12.50	No
	802.11ax(HE160) (SU)	163	5815	12.09	12.50	No
	802.11be(EHT20) (SU)	169	5845	12.01	12.50	No
		173	5865	12.20	12.50	No
		177	5885	12.25	12.50	No
	802.11be(EHT40) (SU)	167	5835	12.09	12.50	No
		175	5875	12.18	12.50	No
	802.11be(EHT80) (SU)	171	5855	12.14	12.50	No
	802.11be(EHT160) (SU)	163	5815	12.02	12.50	No
	802.11ax(HE20) (RU26)/0	169	5845	12.11	12.50	No
	802.11ax(HE20) (RU26)/4	173	5865	12.06	12.50	No
	802.11ax(HE20) (RU26)/8	177	5885	12.10	12.50	No
	802.11ax(HE20) (RU52)/37	169	5845	12.17	12.50	No
	802.11ax(HE20) (RU52)/39	173	5865	12.00	12.50	No
	802.11ax(HE20) (RU52)/40	177	5885	12.20	12.50	No
	802.11ax(HE20) (RU106)/53	169	5845	12.16	12.50	No
	802.11ax(HE20) (RU106)/54	173	5865	12.07	12.50	No
	802.11ax(HE20) (RU106)/54	177	5885	12.05	12.50	No
	802.11be(EHT20) (RU26)/0	169	5845	12.24	12.50	No
	802.11be(EHT20)	173	5865	12.15	12.50	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	12.16	12.50	No
	802.11be(EHT20) (RU52)/37	169	5845	12.07	12.50	No
	802.11be(EHT20) (RU52)/39	173	5865	12.03	12.50	No
	802.11be(EHT20) (RU52)/40	177	5885	11.98	12.50	No
	802.11be(EHT20) (RU106)/53	169	5845	12.18	12.50	No
	802.11be(EHT20) (RU106)/54	173	5865	12.04	12.50	No
	802.11be(EHT20) (RU106)/54	177	5885	12.11	12.50	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.1.4 5G WIFI (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	13.24	13.50	No
		40	5200	12.98	13.50	No
		48	5240	13.19	13.50	No
	802.11n(HT20)	36	5180	13.22	13.50	No
		40	5200	13.08	13.50	No
		48	5240	13.10	13.50	No
	802.11n(HT40)	38	5190	13.18	13.50	No
		46	5230	13.00	13.50	No
	802.11ac(VHT20)	36	5180	13.25	13.50	No
		40	5200	13.10	13.50	No
		48	5240	13.08	13.50	No
	802.11ac(VHT40)	38	5190	13.21	13.50	No
		46	5230	12.98	13.50	No
	802.11ac(VHT80)	42	5210	13.15	13.50	No
	802.11ac(VHT160)	50	5250	10.70	11.00	No
	802.11ax(HE20) (SU)	36	5180	13.08	13.50	No
		40	5200	13.05	13.50	No
		48	5240	13.05	13.50	No
	802.11ax(HE40) (SU)	38	5190	13.05	13.50	No
		46	5230	13.13	13.50	No
	802.11ax(HE80) (SU)	42	5210	12.97	13.50	No
	802.11ax(HE160) (SU)	50	5250	10.62	11.00	No
	802.11be(EHT20) (SU)	36	5180	13.07	13.50	No
		40	5200	13.13	13.50	No
		48	5240	13.04	13.50	No
	802.11be(EHT40) (SU)	38	5190	13.20	13.50	No
		46	5230	13.12	13.50	No
	802.11be(EHT80) (SU)	42	5210	13.00	13.50	No
	802.11be(EHT160) (SU)	50	5250	10.62	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	11.52	12.00	No
	802.11ax(HE20) (RU26)/4	40	5200	13.17	13.50	No
	802.11ax(HE20) (RU26)/8	48	5240	13.18	13.50	No
	802.11ax(HE20)	36	5180	13.02	13.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	13.01	13.50	No
	802.11ax(HE20) (RU52)/40	48	5240	12.96	13.50	No
	802.11ax(HE20) (RU106)/53	36	5180	12.96	13.50	No
	802.11ax(HE20) (RU106)/53	40	5200	13.13	13.50	No
	802.11ax(HE20) (RU106)/54	48	5240	12.98	13.50	No
	802.11be(EHT20) (RU26)/0	36	5180	11.61	12.00	No
	802.11be(EHT20) (RU26)/4	40	5200	13.09	13.50	No
	802.11be(EHT20) (RU26)/8	48	5240	13.15	13.50	No
	802.11be(EHT20) (RU52)/37	36	5180	13.02	13.50	No
	802.11be(EHT20) (RU52)/39	40	5200	13.23	13.50	No
	802.11be(EHT20) (RU52)/40	48	5240	13.02	13.50	No
	802.11be(EHT20) (RU106)/53	36	5180	13.22	13.50	No
	802.11be(EHT20) (RU106)/53	40	5200	13.00	13.50	No
	802.11be(EHT20) (RU106)/54	48	5240	13.23	13.50	No
5.3	802.11a	52	5260	13.09	13.50	No
		60	5300	13.07	13.50	No
		64	5320	13.25	13.50	No
	802.11n(HT20)	52	5260	13.20	13.50	No
		60	5300	13.06	13.50	No
		64	5320	13.16	13.50	No
	802.11n(HT40)	54	5270	13.14	13.50	No
		62	5310	13.16	13.50	No
	802.11ac(VHT20)	52	5260	13.08	13.50	No
		60	5300	13.26	13.50	No
		64	5320	13.19	13.50	No
	802.11ac(VHT40)	54	5270	13.06	13.50	No
		62	5310	13.06	13.50	No
	802.11ac(VHT80)	58	5290	13.22	13.50	Yes

	802.11ax(HE20) (SU)	52	5260	13.06	13.50	No
		60	5300	13.13	13.50	No
		64	5320	13.06	13.50	No
	802.11ax(HE40) (SU)	54	5270	13.17	13.50	No
		62	5310	13.26	13.50	No
	802.11ax(HE80) (SU)	58	5290	13.26	13.50	No
	802.11be(EHT20) (SU)	52	5260	13.23	13.50	No
		60	5300	13.20	13.50	No
		64	5320	13.07	13.50	No
	802.11be(EHT40) (SU)	54	5270	13.16	13.50	No
		62	5310	13.08	13.50	No
	802.11be(EHT80) (SU)	58	5290	13.09	13.50	No
	802.11ax(HE20) (RU26)/0	52	5260	13.21	13.50	No
	802.11ax(HE20) (RU26)/4	60	5300	13.12	13.50	No
	802.11ax(HE20) (RU26)/8	64	5320	10.78	11.00	No
	802.11ax(HE20) (RU52)/37	52	5260	13.18	13.50	No
	802.11ax(HE20) (RU52)/39	60	5300	13.20	13.50	No
	802.11ax(HE20) (RU52)/40	64	5320	13.13	13.50	No
	802.11ax(HE20) (RU106)/53	52	5260	13.11	13.50	No
	802.11ax(HE20) (RU106)/53	60	5300	13.26	13.50	No
	802.11ax(HE20) (RU106)/54	64	5320	13.06	13.50	No
	802.11be(EHT20) (RU26)/0	52	5260	13.06	13.50	No
	802.11be(EHT20) (RU26)/4	60	5300	13.28	13.50	No
	802.11be(EHT20) (RU26)/8	64	5320	10.56	11.00	No
	802.11be(EHT20) (RU52)/37	52	5260	13.06	13.50	No
	802.11be(EHT20) (RU52)/39	60	5300	13.13	13.50	No
	802.11be(EHT20)	64	5320	13.06	13.50	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	13.16	13.50	No
	802.11be(EHT20) (RU106)/53	60	5300	13.16	13.50	No
	802.11be(EHT20) (RU106)/54	64	5320	13.28	13.50	No
5.6	802.11a	100	5500	12.66	13.00	No
		116	5580	12.72	13.00	No
		140	5700	12.57	13.00	No
		144	5720	12.72	13.00	No
	802.11n(HT20)	100	5500	12.71	13.00	No
		116	5580	12.69	13.00	No
		140	5700	12.58	13.00	No
		144	5720	12.77	13.00	No
	802.11n(HT40)	102	5510	12.75	13.00	No
		110	5550	12.79	13.00	No
		134	5670	12.69	13.00	No
		142	5710	12.76	13.00	No
	802.11ac(VHT20)	100	5500	12.73	13.00	No
		116	5580	12.63	13.00	No
		140	5700	12.76	13.00	No
		144	5720	12.56	13.00	No
	802.11ac(VHT40)	102	5510	12.71	13.00	No
		110	5550	12.60	13.00	No
		134	5670	12.62	13.00	No
		142	5710	12.78	13.00	No
	802.11ac(VHT80)	106	5530	12.98	13.00	Yes
		138	5690	12.95	13.00	Yes
	802.11ax(HE20) (SU)	100	5500	12.51	13.00	No
		116	5580	12.47	13.00	No
		140	5700	12.71	13.00	No
		144	5720	12.57	13.00	No
	802.11ax(HE40) (SU)	102	5510	12.69	13.00	No
		110	5550	12.67	13.00	No
		134	5670	12.54	13.00	No
		142	5710	12.69	13.00	No
	802.11ax(HE80) (SU)	106	5530	12.56	13.00	No
		138	5690	12.73	13.00	No
	802.11be(EHT20) (SU)	100	5500	12.54	13.00	No
		116	5580	12.74	13.00	No
		140	5700	12.68	13.00	No
		144	5720	12.71	13.00	No

	802.11be(EHT40) (SU)	102	5510	12.51	13.00	No
		110	5550	12.52	13.00	No
		134	5670	12.51	13.00	No
		142	5710	12.71	13.00	No
	802.11be(EHT80) (SU)	106	5530	12.73	13.00	No
		138	5690	12.70	13.00	No
	802.11ax(HE20) (RU26)/0	100	5500	9.47	10.00	No
	802.11ax(HE20) (RU26)/4	116	5580	12.50	13.00	No
	802.11ax(HE20) (RU26)/8	140	5700	8.63	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	12.72	13.00	No
	802.11ax(HE20) (RU52)/37	100	5500	12.55	13.00	No
	802.11ax(HE20) (RU52)/39	116	5580	12.65	13.00	No
	802.11ax(HE20) (RU52)/40	140	5700	10.68	11.00	No
	802.11ax(HE20) (RU52)/40	144	5720	12.74	13.00	No
	802.11ax(HE20) (RU106)/53	100	5500	12.75	13.00	No
	802.11ax(HE20) (RU106)/53	116	5580	12.66	13.00	No
	802.11ax(HE20) (RU106)/54	140	5700	12.47	13.00	No
	802.11ax(HE20) (RU106)/54	144	5720	12.55	13.00	No
	802.11be(EHT20) (RU26)/0	100	5500	9.74	10.00	No
	802.11be(EHT20) (RU26)/4	116	5580	12.56	13.00	No
	802.11be(EHT20) (RU26)/8	140	5700	8.59	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	12.52	13.00	No
	802.11be(EHT20) (RU52)/37	100	5500	12.61	13.00	No
	802.11be(EHT20) (RU52)/39	116	5580	12.67	13.00	No
	802.11be(EHT20)	140	5700	10.48	11.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	12.69	13.00	No
	802.11be(EHT20) (RU106)/53	100	5500	12.55	13.00	No
	802.11be(EHT20) (RU106)/53	116	5580	12.71	13.00	No
	802.11be(EHT20) (RU106)/54	140	5700	12.63	13.00	No
	802.11be(EHT20) (RU106)/54	144	5720	12.52	13.00	No
5.8	802.11a	149	5745	13.12	13.50	No
		157	5785	13.19	13.50	No
		165	5825	13.23	13.50	No
	802.11n(HT20)	149	5745	12.96	13.50	No
		157	5785	13.00	13.50	No
		165	5825	13.08	13.50	No
	802.11n(HT40)	151	5755	13.17	13.50	No
		159	5795	13.09	13.50	No
	802.11ac(VHT20)	149	5745	13.07	13.50	No
		157	5785	12.97	13.50	No
		165	5825	13.08	13.50	No
	802.11ac(VHT40)	151	5755	13.02	13.50	No
		159	5795	12.97	13.50	No
	802.11ac(VHT80)	155	5775	12.98	13.50	Yes
	802.11ax(HE20) (SU)	149	5745	13.23	13.50	No
		157	5785	13.05	13.50	No
		165	5825	13.01	13.50	No
	802.11ax(HE40) (SU)	151	5755	13.00	13.50	No
		159	5795	13.12	13.50	No
	802.11ax(HE80) (SU)	155	5775	13.10	13.50	No
	802.11be(EHT20) (SU)	149	5745	13.10	13.50	No
		157	5785	13.14	13.50	No
		165	5825	13.20	13.50	No
	802.11be(EHT40) (SU)	151	5755	13.25	13.50	No
		159	5795	13.13	13.50	No
	802.11be(EHT80) (SU)	155	5775	13.10	13.50	No
	802.11ax(HE20) (RU26)/0	149	5745	13.04	13.50	No
	802.11ax(HE20) (RU26)/4	157	5785	13.19	13.50	No

	802.11ax(HE20) (RU26)/8	165	5825	13.10	13.50	No
	802.11ax(HE20) (RU52)/37	149	5745	13.20	13.50	No
	802.11ax(HE20) (RU52)/39	157	5785	12.95	13.50	No
	802.11ax(HE20) (RU52)/40	165	5825	13.25	13.50	No
	802.11ax(HE20) (RU106)/53	149	5745	13.11	13.50	No
	802.11ax(HE20) (RU106)/54	157	5785	12.99	13.50	No
	802.11ax(HE20) (RU106)/54	165	5825	13.08	13.50	No
	802.11be(EHT20) (RU26)/0	149	5745	13.05	13.50	No
	802.11be(EHT20) (RU26)/4	157	5785	13.08	13.50	No
	802.11be(EHT20) (RU26)/8	165	5825	13.25	13.50	No
	802.11be(EHT20) (RU52)/37	149	5745	12.96	13.50	No
	802.11be(EHT20) (RU52)/39	157	5785	13.18	13.50	No
	802.11be(EHT20) (RU52)/40	165	5825	13.07	13.50	No
	802.11be(EHT20) (RU106)/53	149	5745	13.19	13.50	No
	802.11be(EHT20) (RU106)/53	157	5785	13.13	13.50	No
	802.11be(EHT20) (RU106)/54	165	5825	12.98	13.50	No
5.9	802.11a	169	5845	13.08	13.50	No
		173	5865	13.22	13.50	No
		177	5885	13.14	13.50	No
	802.11n(HT20)	169	5845	13.09	13.50	No
		173	5865	13.24	13.50	No
		177	5885	13.15	13.50	No
	802.11n(HT40)	167	5835	13.00	13.50	No
		175	5875	13.25	13.50	No
	802.11ac(VHT20)	169	5845	13.06	13.50	No
		173	5865	13.00	13.50	No
		177	5885	13.17	13.50	No

	802.11ac(VHT40)	167	5835	13.15	13.50	No
		175	5875	13.19	13.50	No
	802.11ac(VHT80)	171	5855	13.13	13.50	No
	802.11ac(VHT160)	163	5815	13.21	13.50	Yes
	802.11ax(HE20) (SU)	169	5845	13.04	13.50	No
		173	5865	12.95	13.50	No
		177	5885	12.98	13.50	No
	802.11ax(HE40) (SU)	167	5835	13.14	13.50	No
		175	5875	13.00	13.50	No
	802.11ax(HE80) (SU)	171	5855	12.99	13.50	No
	802.11ax(HE160) (SU)	163	5815	13.20	13.50	No
	802.11be(EHT20) (SU)	169	5845	13.21	13.50	No
		173	5865	13.18	13.50	No
		177	5885	13.17	13.50	No
	802.11be(EHT40) (SU)	167	5835	13.11	13.50	No
		175	5875	13.21	13.50	No
	802.11be(EHT80) (SU)	171	5855	13.19	13.50	No
	802.11be(EHT160) (SU)	163	5815	13.18	13.50	No
	802.11ax(HE20) (RU26)/0	169	5845	13.05	13.50	No
	802.11ax(HE20) (RU26)/4	173	5865	13.23	13.50	No
	802.11ax(HE20) (RU26)/8	177	5885	13.22	13.50	No
	802.11ax(HE20) (RU52)/37	169	5845	12.97	13.50	No
	802.11ax(HE20) (RU52)/39	173	5865	13.11	13.50	No
	802.11ax(HE20) (RU52)/40	177	5885	13.04	13.50	No
	802.11ax(HE20) (RU106)/53	169	5845	12.98	13.50	No
	802.11ax(HE20) (RU106)/54	173	5865	13.20	13.50	No
	802.11ax(HE20) (RU106)/54	177	5885	13.04	13.50	No
	802.11be(EHT20) (RU26)/0	169	5845	13.23	13.50	No
	802.11be(EHT20)	173	5865	13.10	13.50	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	13.23	13.50	No
	802.11be(EHT20) (RU52)/37	169	5845	13.24	13.50	No
	802.11be(EHT20) (RU52)/39	173	5865	13.11	13.50	No
	802.11be(EHT20) (RU52)/40	177	5885	13.08	13.50	No
	802.11be(EHT20) (RU106)/53	169	5845	13.07	13.50	No
	802.11be(EHT20) (RU106)/54	173	5865	13.23	13.50	No
	802.11be(EHT20) (RU106)/54	177	5885	13.00	13.50	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.1.5 5G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	16.01	16.50	No
		40	5200	16.05	16.50	No
		48	5240	16.14	16.50	No
	802.11n(HT20)	36	5180	16.05	16.50	No
		40	5200	16.25	16.50	No
		48	5240	16.09	16.50	No
	802.11n(HT40)	38	5190	16.04	16.50	No
		46	5230	16.00	16.50	No
	802.11ac(VHT20)	36	5180	16.08	16.50	No
		40	5200	16.18	16.50	No
		48	5240	16.16	16.50	No
	802.11ac(VHT40)	38	5190	15.95	16.50	No
		46	5230	15.97	16.50	No
	802.11ac(VHT80)	42	5210	16.19	16.50	No
	802.11ac(VHT160)	50	5250	13.08	13.50	No
	802.11ax(HE20) (SU)	36	5180	16.16	16.50	No
		40	5200	16.13	16.50	No
		48	5240	16.24	16.50	No
	802.11ax(HE40) (SU)	38	5190	15.96	16.50	No
		46	5230	15.98	16.50	No
	802.11ax(HE80) (SU)	42	5210	16.05	16.50	No
	802.11ax(HE160) (SU)	50	5250	13.16	13.50	No
	802.11be(EHT20) (SU)	36	5180	16.23	16.50	No
		40	5200	15.97	16.50	No
		48	5240	16.22	16.50	No
	802.11be(EHT40) (SU)	38	5190	16.07	16.50	No
		46	5230	16.01	16.50	No
	802.11be(EHT80) (SU)	42	5210	16.09	16.50	No
	802.11be(EHT160) (SU)	50	5250	13.00	13.50	No
	802.11ax(HE20) (RU26)/0	36	5180	13.12	13.50	No
	802.11ax(HE20) (RU26)/4	40	5200	13.11	13.50	No
	802.11ax(HE20) (RU26)/8	48	5240	13.18	13.50	No
	802.11ax(HE20)	36	5180	16.06	16.50	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	15.99	16.50	No
	802.11ax(HE20) (RU52)/40	48	5240	16.19	16.50	No
	802.11ax(HE20) (RU106)/53	36	5180	16.02	16.50	No
	802.11ax(HE20) (RU106)/53	40	5200	16.19	16.50	No
	802.11ax(HE20) (RU106)/54	48	5240	16.16	16.50	No
	802.11be(EHT20) (RU26)/0	36	5180	13.21	13.50	No
	802.11be(EHT20) (RU26)/4	40	5200	13.05	13.50	No
	802.11be(EHT20) (RU26)/8	48	5240	13.23	13.50	No
	802.11be(EHT20) (RU52)/37	36	5180	16.02	16.50	No
	802.11be(EHT20) (RU52)/39	40	5200	16.06	16.50	No
	802.11be(EHT20) (RU52)/40	48	5240	16.24	16.50	No
	802.11be(EHT20) (RU106)/53	36	5180	16.08	16.50	No
	802.11be(EHT20) (RU106)/53	40	5200	16.08	16.50	No
	802.11be(EHT20) (RU106)/54	48	5240	16.10	16.50	No
5.3	802.11a	52	5260	16.18	16.50	No
		60	5300	16.01	16.50	No
		64	5320	16.01	16.50	No
	802.11n(HT20)	52	5260	16.01	16.50	No
		60	5300	16.00	16.50	No
		64	5320	16.20	16.50	No
	802.11n(HT40)	54	5270	16.13	16.50	No
		62	5310	16.12	16.50	No
	802.11ac(VHT20)	52	5260	15.99	16.50	No
		60	5300	16.24	16.50	No
		64	5320	16.05	16.50	No
	802.11ac(VHT40)	54	5270	16.02	16.50	No
		62	5310	16.10	16.50	No
	802.11ac(VHT80)	58	5290	16.08	16.50	No

	802.11ax(HE20) (SU)	52	5260	16.08	16.50	No
		60	5300	15.98	16.50	No
		64	5320	15.97	16.50	No
	802.11ax(HE40) (SU)	54	5270	15.99	16.50	No
		62	5310	16.25	16.50	No
	802.11ax(HE80) (SU)	58	5290	16.12	16.50	No
	802.11be(EHT20) (SU)	52	5260	16.16	16.50	No
		60	5300	16.10	16.50	No
		64	5320	16.09	16.50	No
	802.11be(EHT40) (SU)	54	5270	16.22	16.50	No
		62	5310	15.96	16.50	No
	802.11be(EHT80) (SU)	58	5290	16.18	16.50	No
	802.11ax(HE20) (RU26)/0	52	5260	12.96	13.50	No
	802.11ax(HE20) (RU26)/4	60	5300	13.11	13.50	No
	802.11ax(HE20) (RU26)/8	64	5320	13.02	13.50	No
	802.11ax(HE20) (RU52)/37	52	5260	16.11	16.50	No
	802.11ax(HE20) (RU52)/39	60	5300	16.08	16.50	No
	802.11ax(HE20) (RU52)/40	64	5320	16.17	16.50	No
	802.11ax(HE20) (RU106)/53	52	5260	15.98	16.50	No
	802.11ax(HE20) (RU106)/53	60	5300	15.98	16.50	No
	802.11ax(HE20) (RU106)/54	64	5320	16.01	16.50	No
	802.11be(EHT20) (RU26)/0	52	5260	13.00	13.50	No
	802.11be(EHT20) (RU26)/4	60	5300	12.99	13.50	No
	802.11be(EHT20) (RU26)/8	64	5320	12.97	13.50	No
	802.11be(EHT20) (RU52)/37	52	5260	16.16	16.50	No
	802.11be(EHT20) (RU52)/39	60	5300	16.04	16.50	No
	802.11be(EHT20)	64	5320	16.14	16.50	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	16.08	16.50	No
	802.11be(EHT20) (RU106)/53	60	5300	16.01	16.50	No
	802.11be(EHT20) (RU106)/54	64	5320	16.02	16.50	No
5.6	802.11a	100	5500	13.48	14.00	No
		116	5580	13.62	14.00	No
		140	5700	13.50	14.00	No
		144	5720	13.66	14.00	No
	802.11n(HT20)	100	5500	13.72	14.00	No
		116	5580	13.49	14.00	No
		140	5700	13.63	14.00	No
		144	5720	13.64	14.00	No
	802.11n(HT40)	102	5510	13.66	14.00	No
		110	5550	13.58	14.00	No
		134	5670	13.50	14.00	No
		142	5710	13.73	14.00	No
	802.11ac(VHT20)	100	5500	13.51	14.00	No
		116	5580	13.72	14.00	No
		140	5700	13.54	14.00	No
		144	5720	13.68	14.00	No
	802.11ac(VHT40)	102	5510	13.73	14.00	No
		110	5550	13.60	14.00	No
		134	5670	13.73	14.00	No
		142	5710	13.54	14.00	No
	802.11ac(VHT80)	106	5530	13.60	14.00	No
		138	5690	13.68	14.00	No
	802.11ax(HE20) (SU)	100	5500	13.55	14.00	No
		116	5580	13.69	14.00	No
		140	5700	13.48	14.00	No
		144	5720	13.58	14.00	No
	802.11ax(HE40) (SU)	102	5510	13.66	14.00	No
		110	5550	13.45	14.00	No
		134	5670	13.63	14.00	No
		142	5710	13.68	14.00	No
	802.11ax(HE80) (SU)	106	5530	13.52	14.00	No
		138	5690	13.63	14.00	No
	802.11be(EHT20) (SU)	100	5500	13.70	14.00	No
		116	5580	13.64	14.00	No
		140	5700	13.70	14.00	No
		144	5720	13.54	14.00	No

	802.11be(EHT40) (SU)	102	5510	13.70	14.00	No
		110	5550	13.73	14.00	No
		134	5670	13.63	14.00	No
		142	5710	13.71	14.00	No
	802.11be(EHT80) (SU)	106	5530	13.68	14.00	No
		138	5690	13.46	14.00	No
	802.11ax(HE20) (RU26)/0	100	5500	13.08	13.50	No
	802.11ax(HE20) (RU26)/4	116	5580	13.19	13.50	No
	802.11ax(HE20) (RU26)/8	140	5700	11.03	11.50	No
	802.11ax(HE20) (RU26)/8	144	5720	13.47	14.00	No
	802.11ax(HE20) (RU52)/37	100	5500	13.58	14.00	No
	802.11ax(HE20) (RU52)/39	116	5580	13.47	14.00	No
	802.11ax(HE20) (RU52)/40	140	5700	13.59	14.00	No
	802.11ax(HE20) (RU52)/40	144	5720	13.62	14.00	No
	802.11ax(HE20) (RU106)/53	100	5500	13.72	14.00	No
	802.11ax(HE20) (RU106)/53	116	5580	13.48	14.00	No
	802.11ax(HE20) (RU106)/54	140	5700	13.49	14.00	No
	802.11ax(HE20) (RU106)/54	144	5720	13.64	14.00	No
	802.11be(EHT20) (RU26)/0	100	5500	13.13	13.50	No
	802.11be(EHT20) (RU26)/4	116	5580	13.09	13.50	No
	802.11be(EHT20) (RU26)/8	140	5700	11.03	11.50	No
	802.11be(EHT20) (RU26)/8	144	5720	13.68	14.00	No
	802.11be(EHT20) (RU52)/37	100	5500	13.48	14.00	No
	802.11be(EHT20) (RU52)/39	116	5580	13.75	14.00	No
	802.11be(EHT20)	140	5700	13.58	14.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	13.62	14.00	No
	802.11be(EHT20) (RU106)/53	100	5500	13.74	14.00	No
	802.11be(EHT20) (RU106)/53	116	5580	13.64	14.00	No
	802.11be(EHT20) (RU106)/54	140	5700	13.52	14.00	No
	802.11be(EHT20) (RU106)/54	144	5720	13.64	14.00	No
5.8	802.11a	149	5745	15.05	15.50	No
		157	5785	15.12	15.50	No
		165	5825	15.13	15.50	No
	802.11n(HT20)	149	5745	15.13	15.50	No
		157	5785	15.12	15.50	No
		165	5825	15.10	15.50	No
	802.11n(HT40)	151	5755	15.08	15.50	No
		159	5795	15.25	15.50	No
	802.11ac(VHT20)	149	5745	14.98	15.50	No
		157	5785	14.96	15.50	No
		165	5825	15.18	15.50	No
	802.11ac(VHT40)	151	5755	15.15	15.50	No
		159	5795	15.24	15.50	No
	802.11ac(VHT80)	155	5775	15.22	15.50	No
	802.11ax(HE20) (SU)	149	5745	15.01	15.50	No
		157	5785	15.19	15.50	No
		165	5825	15.05	15.50	No
	802.11ax(HE40) (SU)	151	5755	15.21	15.50	No
		159	5795	15.03	15.50	No
	802.11ax(HE80) (SU)	155	5775	15.11	15.50	No
	802.11be(EHT20) (SU)	149	5745	15.16	15.50	No
		157	5785	15.14	15.50	No
		165	5825	15.12	15.50	No
	802.11be(EHT40) (SU)	151	5755	15.19	15.50	No
		159	5795	15.19	15.50	No
	802.11be(EHT80) (SU)	155	5775	15.20	15.50	No
	802.11ax(HE20) (RU26)/0	149	5745	15.20	15.50	No
	802.11ax(HE20) (RU26)/4	157	5785	15.10	15.50	No

	802.11ax(HE20) (RU26)/8	165	5825	15.14	15.50	No
	802.11ax(HE20) (RU52)/37	149	5745	15.06	15.50	No
	802.11ax(HE20) (RU52)/39	157	5785	15.20	15.50	No
	802.11ax(HE20) (RU52)/40	165	5825	15.01	15.50	No
	802.11ax(HE20) (RU106)/53	149	5745	15.15	15.50	No
	802.11ax(HE20) (RU106)/54	157	5785	15.03	15.50	No
	802.11ax(HE20) (RU106)/54	165	5825	15.10	15.50	No
	802.11be(EHT20) (RU26)/0	149	5745	15.08	15.50	No
	802.11be(EHT20) (RU26)/4	157	5785	15.04	15.50	No
	802.11be(EHT20) (RU26)/8	165	5825	15.03	15.50	No
	802.11be(EHT20) (RU52)/37	149	5745	15.04	15.50	No
	802.11be(EHT20) (RU52)/39	157	5785	15.02	15.50	No
	802.11be(EHT20) (RU52)/40	165	5825	15.21	15.50	No
	802.11be(EHT20) (RU106)/53	149	5745	15.17	15.50	No
	802.11be(EHT20) (RU106)/53	157	5785	15.06	15.50	No
	802.11be(EHT20) (RU106)/54	165	5825	15.08	15.50	No
5.9	802.11a	169	5845	15.11	15.50	No
		173	5865	15.19	15.50	No
		177	5885	15.07	15.50	No
	802.11n(HT20)	169	5845	15.21	15.50	No
		173	5865	15.01	15.50	No
		177	5885	15.00	15.50	No
	802.11n(HT40)	167	5835	15.02	15.50	No
		175	5875	15.03	15.50	No
	802.11ac(VHT20)	169	5845	15.00	15.50	No
		173	5865	15.22	15.50	No
		177	5885	15.15	15.50	No

	802.11ac(VHT40)	167	5835	15.23	15.50	No
		175	5875	15.10	15.50	No
	802.11ac(VHT80)	171	5855	15.11	15.50	No
	802.11ac(VHT160)	163	5815	15.02	15.50	No
	802.11ax(HE20) (SU)	169	5845	15.24	15.50	No
		173	5865	14.97	15.50	No
		177	5885	14.98	15.50	No
	802.11ax(HE40) (SU)	167	5835	15.08	15.50	No
		175	5875	15.24	15.50	No
	802.11ax(HE80) (SU)	171	5855	15.16	15.50	No
	802.11ax(HE160) (SU)	163	5815	15.12	15.50	No
	802.11be(EHT20) (SU)	169	5845	15.03	15.50	No
		173	5865	14.97	15.50	No
		177	5885	15.06	15.50	No
	802.11be(EHT40) (SU)	167	5835	15.02	15.50	No
		175	5875	15.18	15.50	No
	802.11be(EHT80) (SU)	171	5855	14.95	15.50	No
	802.11be(EHT160) (SU)	163	5815	15.18	15.50	No
	802.11ax(HE20) (RU26)/0	169	5845	11.34	12.00	No
	802.11ax(HE20) (RU26)/4	173	5865	11.45	12.00	No
	802.11ax(HE20) (RU26)/8	177	5885	11.41	12.00	No
	802.11ax(HE20) (RU52)/37	169	5845	14.06	14.50	No
	802.11ax(HE20) (RU52)/39	173	5865	14.12	14.50	No
	802.11ax(HE20) (RU52)/40	177	5885	14.05	14.50	No
	802.11ax(HE20) (RU106)/53	169	5845	15.23	15.50	No
	802.11ax(HE20) (RU106)/54	173	5865	14.97	15.50	No
	802.11ax(HE20) (RU106)/54	177	5885	15.16	15.50	No
	802.11be(EHT20) (RU26)/0	169	5845	11.53	12.00	No
	802.11be(EHT20)	173	5865	11.51	12.00	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	11.51	12.00	No
	802.11be(EHT20) (RU52)/37	169	5845	14.09	14.50	No
	802.11be(EHT20) (RU52)/39	173	5865	14.12	14.50	No
	802.11be(EHT20) (RU52)/40	177	5885	14.05	14.50	No
	802.11be(EHT20) (RU106)/53	169	5845	15.16	15.50	No
	802.11be(EHT20) (RU106)/54	173	5865	15.09	15.50	No
	802.11be(EHT20) (RU106)/54	177	5885	15.24	15.50	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤ 0.04 the MIMO SAR test is not required.

8.1.6 6G WIFI (Aux. Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	6.40	7.00	No
		49	6195	6.60	7.00	No
		93	6415	6.62	7.00	No
		97	6435	6.42	7.00	No
		105	6475	6.36	7.00	No
		113	6515	6.52	7.00	No
		117	6535	6.63	7.00	No
		149	6695	6.36	7.00	No
		181	6855	6.68	7.00	No
		185	6875	6.63	7.00	No
		189	6895	6.37	7.00	No
		209	6995	6.38	7.00	No
		229	7095	6.59	7.00	No
		233	7115	6.70	7.00	No
	802.11ax(HE20) (SU)	1	5955	6.39	7.00	No
		49	6195	6.52	7.00	No
		93	6415	6.57	7.00	No
		97	6435	6.53	7.00	No
		105	6475	6.42	7.00	No
		113	6515	6.56	7.00	No
		117	6535	6.53	7.00	No
		149	6695	6.39	7.00	No
		181	6855	6.39	7.00	No
		185	6875	6.69	7.00	No
		209	6995	6.45	7.00	No
		233	7115	6.43	7.00	No
	802.11ax(HE40) (SU)	3	5965	9.66	10.00	No
		51	6205	9.35	10.00	No
		91	6405	9.43	10.00	No
		99	6445	9.54	10.00	No
		107	6485	9.67	10.00	No
		115	6525	9.64	10.00	No
		123	6565	9.35	10.00	No
		147	6685	9.58	10.00	No
		179	6845	9.57	10.00	No
		187	6885	9.43	10.00	No
		195	6925	9.55	10.00	No
		211	7005	9.51	10.00	No
		227	7085	9.46	10.00	No

	802.11ax(HE80) (SU)	7	5985	12.47	13.00	No
		55	6225	12.68	13.00	No
		87	6385	12.56	13.00	No
		103	6465	12.67	13.00	No
		119	6545	12.55	13.00	No
		135	6625	12.44	13.00	No
		151	6705	12.49	13.00	No
		167	6785	12.64	13.00	No
		183	6865	12.68	13.00	No
		199	6945	12.41	13.00	No
		215	7025	12.52	13.00	No
	802.11ax(HE160) (SU)	15	6025	12.92	13.00	Yes
		47	6185	12.46	13.00	Yes
		79	6345	12.91	13.00	Yes
		111	6505	12.64	13.00	Yes
		143	6665	12.50	13.00	Yes
		175	6825	12.91	13.00	Yes
		207	6985	12.61	13.00	Yes
	802.11be(EHT20) (SU)	1	5955	6.62	7.00	No
		49	6195	6.45	7.00	No
		93	6415	6.63	7.00	No
		97	6435	6.48	7.00	No
		105	6475	6.65	7.00	No
		113	6515	6.49	7.00	No
		117	6535	6.53	7.00	No
		149	6695	6.35	7.00	No
		181	6855	6.46	7.00	No
		185	6875	6.37	7.00	No
		209	6995	6.45	7.00	No
		233	7115	6.56	7.00	No
	802.11be(EHT40) (SU)	3	5965	9.37	10.00	No
		51	6205	9.50	10.00	No
		91	6405	9.40	10.00	No
		99	6445	9.41	10.00	No
		107	6485	9.38	10.00	No
		115	6525	9.35	10.00	No
		123	6565	9.37	10.00	No
		147	6685	9.55	10.00	No
		179	6845	9.45	10.00	No
		187	6885	9.40	10.00	No
		195	6925	9.69	10.00	No
		211	7005	9.55	10.00	No
		227	7085	9.61	10.00	No

	802.11be(EHT80) (SU)	7	5985	12.37	13.00	No
		55	6225	12.36	13.00	No
		87	6385	12.60	13.00	No
		103	6465	12.67	13.00	No
		119	6545	12.44	13.00	No
		135	6625	12.52	13.00	No
		151	6705	12.48	13.00	No
		167	6785	12.62	13.00	No
		183	6865	12.38	13.00	No
		199	6945	12.38	13.00	No
		215	7025	12.70	13.00	No
	802.11be(EHT160) (SU)	15	6025	12.61	13.00	No
		47	6185	12.44	13.00	No
		79	6345	12.38	13.00	No
		111	6505	12.51	13.00	No
		143	6665	12.42	13.00	No
		175	6825	12.36	13.00	No
		207	6985	12.56	13.00	No
	802.11be(EHT20) (RU26)	1	5955	-1.61	-1.00	No
		49	6195	-1.32	-1.00	No
		93	6415	-1.50	-1.00	No
		97	6435	-1.34	-1.00	No
		105	6475	-1.30	-1.00	No
		113	6515	-1.31	-1.00	No
		117	6535	-1.30	-1.00	No
		149	6695	-1.61	-1.00	No
		181	6855	-1.32	-1.00	No
		185	6875	-1.51	-1.00	No
		209	6995	-1.32	-1.00	No
		233	7115	-1.51	-1.00	No
	802.11be(EHT20) (RU52)	1	5955	1.06	1.50	No
		49	6195	0.87	1.50	No
		93	6415	0.89	1.50	No
		97	6435	1.07	1.50	No
		105	6475	1.04	1.50	No
		113	6515	1.18	1.50	No
		117	6535	1.03	1.50	No
		149	6695	0.97	1.50	No
		181	6855	1.08	1.50	No
		185	6875	1.07	1.50	No
		209	6995	0.92	1.50	No
		233	7115	0.94	1.50	No
	802.11be(EHT20)	1	5955	3.62	4.00	No

	(RU106)	49	6195	3.40	4.00	No
		93	6415	3.53	4.00	No
		97	6435	3.54	4.00	No
		105	6475	3.35	4.00	No
		113	6515	3.52	4.00	No
		117	6535	3.65	4.00	No
		149	6695	3.43	4.00	No
		181	6855	3.56	4.00	No
		185	6875	3.49	4.00	No
		209	6995	3.38	4.00	No
		233	7115	3.59	4.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.7 6G WIFI (Main Antenna) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	6.42	7.00	No
		49	6195	6.58	7.00	No
		93	6415	6.51	7.00	No
		97	6435	6.36	7.00	No
		105	6475	6.54	7.00	No
		113	6515	6.41	7.00	No
		117	6535	6.55	7.00	No
		149	6695	6.35	7.00	No
		181	6855	6.52	7.00	No
		185	6875	6.35	7.00	No
		189	6895	6.56	7.00	No
		209	6995	6.38	7.00	No
		229	7095	6.45	7.00	No
		233	7115	6.58	7.00	No
	802.11ax(HE20) (SU)	1	5955	6.56	7.00	No
		49	6195	6.58	7.00	No
		93	6415	6.45	7.00	No
		97	6435	6.55	7.00	No
		105	6475	6.57	7.00	No
		113	6515	6.37	7.00	No
		117	6535	6.60	7.00	No
		149	6695	6.53	7.00	No
		181	6855	6.65	7.00	No
		185	6875	6.40	7.00	No
		209	6995	6.70	7.00	No
		233	7115	6.35	7.00	No
	802.11ax(HE40) (SU)	3	5965	9.68	10.00	No
		51	6205	9.66	10.00	No
		91	6405	9.70	10.00	No
		99	6445	9.54	10.00	No
		107	6485	9.58	10.00	No
		115	6525	9.53	10.00	No
		123	6565	9.55	10.00	No
		147	6685	9.49	10.00	No
		179	6845	9.52	10.00	No
		187	6885	9.37	10.00	No
		195	6925	9.66	10.00	No
		211	7005	9.55	10.00	No
		227	7085	9.55	10.00	No

	802.11ax(HE80) (SU)	7	5985	12.66	13.00	No
		55	6225	12.43	13.00	No
		87	6385	12.68	13.00	No
		103	6465	12.64	13.00	No
		119	6545	12.64	13.00	No
		135	6625	12.36	13.00	No
		151	6705	12.59	13.00	No
		167	6785	12.38	13.00	No
		183	6865	12.67	13.00	No
		199	6945	12.53	13.00	No
		215	7025	12.61	13.00	No
	802.11ax(HE160) (SU)	15	6025	12.87	13.00	Yes
		47	6185	12.43	13.00	No
		79	6345	12.24	13.00	No
		111	6505	12.54	13.00	No
		143	6665	12.63	13.00	No
		175	6825	12.56	13.00	No
		207	6985	12.55	13.00	No
	802.11be(EHT20) (SU)	1	5955	6.53	7.00	No
		49	6195	6.68	7.00	No
		93	6415	6.42	7.00	No
		97	6435	6.53	7.00	No
		105	6475	6.45	7.00	No
		113	6515	6.44	7.00	No
		117	6535	6.35	7.00	No
		149	6695	6.42	7.00	No
		181	6855	6.36	7.00	No
		185	6875	6.41	7.00	No
		209	6995	6.36	7.00	No
		233	7115	6.44	7.00	No
	802.11be(EHT40) (SU)	3	5965	9.56	10.00	No
		51	6205	9.49	10.00	No
		91	6405	9.36	10.00	No
		99	6445	9.53	10.00	No
		107	6485	9.35	10.00	No
		115	6525	9.46	10.00	No
		123	6565	9.37	10.00	No
		147	6685	9.38	10.00	No
		179	6845	9.44	10.00	No
		187	6885	9.69	10.00	No
		195	6925	9.70	10.00	No
		211	7005	9.58	10.00	No
		227	7085	9.68	10.00	No

	802.11be(EHT80) (SU)	7	5985	12.50	13.00	No
		55	6225	12.55	13.00	No
		87	6385	12.48	13.00	No
		103	6465	12.53	13.00	No
		119	6545	12.47	13.00	No
		135	6625	12.61	13.00	No
		151	6705	12.45	13.00	No
		167	6785	12.60	13.00	No
		183	6865	12.51	13.00	No
		199	6945	12.53	13.00	No
		215	7025	12.56	13.00	No
	802.11be(EHT160) (SU)	15	6025	12.46	13.00	No
		47	6185	12.36	13.00	No
		79	6345	12.46	13.00	No
		111	6505	12.40	13.00	No
		143	6665	12.59	13.00	No
		175	6825	12.38	13.00	No
		207	6985	12.57	13.00	No
	802.11be(EHT20) (RU26)	1	5955	-1.53	-1.00	No
		49	6195	-1.31	-1.00	No
		93	6415	-1.33	-1.00	No
		97	6435	-1.49	-1.00	No
		105	6475	-1.38	-1.00	No
		113	6515	-1.37	-1.00	No
		117	6535	-1.50	-1.00	No
		149	6695	-1.52	-1.00	No
		181	6855	-1.44	-1.00	No
		185	6875	-1.35	-1.00	No
		209	6995	-1.31	-1.00	No
		233	7115	-1.45	-1.00	No
	802.11be(EHT20) (RU52)	1	5955	1.09	1.50	No
		49	6195	1.05	1.50	No
		93	6415	1.12	1.50	No
		97	6435	0.90	1.50	No
		105	6475	0.91	1.50	No
		113	6515	0.93	1.50	No
		117	6535	1.12	1.50	No
		149	6695	1.05	1.50	No
		181	6855	1.20	1.50	No
		185	6875	1.20	1.50	No
		209	6995	0.89	1.50	No
		233	7115	0.96	1.50	No
	802.11be(EHT20)	1	5955	3.58	4.00	No

	(RU106)	49	6195	3.59	4.00	No
		93	6415	3.55	4.00	No
		97	6435	3.35	4.00	No
		105	6475	3.38	4.00	No
		113	6515	3.58	4.00	No
		117	6535	3.59	4.00	No
		149	6695	3.48	4.00	No
		181	6855	3.61	4.00	No
		185	6875	3.46	4.00	No
		209	6995	3.50	4.00	No
		233	7115	3.46	4.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.8 6G WIFI (MIMO) (Laptop Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	4.07	4.50	No
		49	6195	3.91	4.50	No
		93	6415	3.85	4.50	No
		97	6435	3.94	4.50	No
		105	6475	3.98	4.50	No
		113	6515	4.06	4.50	No
		117	6535	3.91	4.50	No
		149	6695	4.20	4.50	No
		181	6855	3.89	4.50	No
		185	6875	4.13	4.50	No
		189	6895	4.14	4.50	No
		209	6995	4.18	4.50	No
		229	7095	4.03	4.50	No
		233	7115	4.18	4.50	No
	802.11ax(HE20) (SU)	1	5955	6.52	7.00	No
		49	6195	6.43	7.00	No
		93	6415	6.39	7.00	No
		97	6435	6.46	7.00	No
		105	6475	6.48	7.00	No
		113	6515	6.49	7.00	No
		117	6535	6.69	7.00	No
		149	6695	6.47	7.00	No
		181	6855	6.55	7.00	No
		185	6875	6.40	7.00	No
		209	6995	6.61	7.00	No
		233	7115	6.40	7.00	No
	802.11ax(HE40) (SU)	3	5965	9.51	10.00	No
		51	6205	9.63	10.00	No
		91	6405	9.57	10.00	No
		99	6445	9.36	10.00	No
		107	6485	9.37	10.00	No
		115	6525	9.66	10.00	No
		123	6565	9.64	10.00	No
		147	6685	9.37	10.00	No
		179	6845	9.70	10.00	No
		187	6885	9.42	10.00	No
		195	6925	9.68	10.00	No
		211	7005	9.61	10.00	No
		227	7085	9.53	10.00	No

	802.11ax(HE80) (SU)	7	5985	12.46	13.00	No
		55	6225	12.56	13.00	No
		87	6385	12.62	13.00	No
		103	6465	12.59	13.00	No
		119	6545	12.61	13.00	No
		135	6625	12.46	13.00	No
		151	6705	12.65	13.00	No
		167	6785	12.52	13.00	No
		183	6865	12.57	13.00	No
		199	6945	12.52	13.00	No
		215	7025	12.52	13.00	No
	802.11ax(HE160) (SU)	15	6025	14.87	15.50	No
		47	6185	15.06	15.50	No
		79	6345	14.98	15.50	No
		111	6505	15.17	15.50	No
		143	6665	14.97	15.50	No
		175	6825	15.16	15.50	No
		207	6985	15.12	15.50	No
	802.11be(EHT20) (SU)	1	5955	6.55	7.00	No
		49	6195	6.58	7.00	No
		93	6415	6.40	7.00	No
		97	6435	6.42	7.00	No
		105	6475	6.45	7.00	No
		113	6515	6.63	7.00	No
		117	6535	6.46	7.00	No
		149	6695	6.57	7.00	No
		181	6855	6.70	7.00	No
		185	6875	6.54	7.00	No
		209	6995	6.54	7.00	No
		233	7115	6.45	7.00	No
	802.11be(EHT40) (SU)	3	5965	9.50	10.00	No
		51	6205	9.41	10.00	No
		91	6405	9.69	10.00	No
		99	6445	9.51	10.00	No
		107	6485	9.62	10.00	No
		115	6525	9.50	10.00	No
		123	6565	9.66	10.00	No
		147	6685	9.65	10.00	No
		179	6845	9.63	10.00	No
		187	6885	9.36	10.00	No
		195	6925	9.46	10.00	No
		211	7005	9.38	10.00	No
		227	7085	9.41	10.00	No

	802.11be(EHT80) (SU)	7	5985	12.37	13.00	No
		55	6225	12.40	13.00	No
		87	6385	12.65	13.00	No
		103	6465	12.54	13.00	No
		119	6545	12.57	13.00	No
		135	6625	12.52	13.00	No
		151	6705	12.46	13.00	No
		167	6785	12.59	13.00	No
		183	6865	12.45	13.00	No
		199	6945	12.65	13.00	No
		215	7025	12.68	13.00	No
	802.11be(EHT160) (SU)	15	6025	14.99	15.50	No
		47	6185	15.15	15.50	No
		79	6345	14.93	15.50	No
		111	6505	14.89	15.50	No
		143	6665	14.94	15.50	No
		175	6825	15.09	15.50	No
		207	6985	15.03	15.50	No
	802.11be(EHT20) (RU26)	1	5955	-2.05	-1.50	No
		49	6195	-1.99	-1.50	No
		93	6415	-1.81	-1.50	No
		97	6435	-1.89	-1.50	No
		105	6475	-2.01	-1.50	No
		113	6515	-1.87	-1.50	No
		117	6535	-2.04	-1.50	No
		149	6695	-1.81	-1.50	No
		181	6855	-2.08	-1.50	No
		185	6875	-1.95	-1.50	No
		209	6995	-1.86	-1.50	No
		233	7115	-2.12	-1.50	No
	802.11be(EHT20) (RU52)	1	5955	0.70	1.00	No
		49	6195	0.46	1.00	No
		93	6415	0.57	1.00	No
		97	6435	0.48	1.00	No
		105	6475	0.63	1.00	No
		113	6515	0.42	1.00	No
		117	6535	0.41	1.00	No
		149	6695	0.38	1.00	No
		181	6855	0.67	1.00	No
		185	6875	0.35	1.00	No
		209	6995	0.51	1.00	No
		233	7115	0.61	1.00	No
	802.11be(EHT20)	1	5955	3.45	4.00	No

	(RU106)	49	6195	3.64	4.00	No
		93	6415	3.67	4.00	No
		97	6435	3.45	4.00	No
		105	6475	3.51	4.00	No
		113	6515	3.36	4.00	No
		117	6535	3.61	4.00	No
		149	6695	3.38	4.00	No
		181	6855	3.44	4.00	No
		185	6875	3.54	4.00	No
		209	6995	3.37	4.00	No
		233	7115	3.45	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤ 0.04 the MIMO SAR test is not required.

8.1.9 2.4G WIFI (Aux. Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	14.24	14.50	Yes
		6	2437	14.17	14.50	Yes
		11	2462	13.95	14.50	Yes
		12	2467	14.08	14.50	No
		13	2472	11.58	12.00	No
	802.11g	1	2412	14.20	14.50	No
		6	2437	14.12	14.50	No
		11	2462	14.06	14.50	No
		12	2467	14.13	14.50	No
		13	2472	13.97	14.50	No
	VHT20	1	2412	14.23	14.50	No
		6	2437	13.97	14.50	No
		11	2462	13.98	14.50	No
		12	2467	14.10	14.50	No
		13	2472	14.17	14.50	No
	VHT40	3	2422	14.15	14.50	No
		6	2437	14.12	14.50	No
		9	2452	14.07	14.50	No
		10	2457	14.13	14.50	No
		11	2462	14.19	14.50	No
	802.11ax(HE20) (SU)	1	2412	13.99	14.50	No
		6	2437	14.14	14.50	No
		11	2462	13.98	14.50	No
		12	2467	14.12	14.50	No
		13	2472	14.07	14.50	No
	802.11ax(HE40) (SU)	3	2422	14.13	14.50	No
		6	2437	14.18	14.50	No
		9	2452	14.01	14.50	No
		10	2457	14.14	14.50	No
		11	2462	14.17	14.50	No
	802.11be(EHT20) (SU)	1	2412	14.20	14.50	No
		6	2437	14.19	14.50	No
		11	2462	14.06	14.50	No
		12	2467	14.15	14.50	No
		13	2472	14.04	14.50	No
	802.11be(EHT40) (SU)	3	2422	14.20	14.50	No
		6	2437	14.06	14.50	No
		9	2452	14.17	14.50	No
		10	2457	14.18	14.50	No

		11	2462	14.15	14.50	No
	802.11be(EHT20) (RU26)/0	1	2412	14.02	14.50	No
	802.11be(EHT20) (RU26)/4	6	2437	14.23	14.50	No
	802.11be(EHT20) (RU26)/8	11	2462	14.07	14.50	No
	802.11be(EHT20) (RU26)/8	12	2467	14.21	14.50	No
	802.11be(EHT20) (RU26)/8	13	2472	13.75	14.50	No
	802.11be(EHT20) (RU52)/37	1	2412	14.21	14.50	No
	802.11be(EHT20) (RU52)/39	6	2437	14.13	14.50	No
	802.11be(EHT20) (RU52)/40	11	2462	14.03	14.50	No
	802.11be(EHT20) (RU52)/40	12	2467	14.17	14.50	No
	802.11be(EHT20) (RU52)/40	13	2472	14.07	14.50	No
	802.11be(EHT20) (RU106)/53	1	2412	14.20	14.50	No
	802.11be(EHT20) (RU106)/53	6	2437	13.95	14.50	No
	802.11be(EHT20) (RU106)/54	11	2462	14.16	14.50	No
	802.11be(EHT20) (RU106)/53	12	2467	14.13	14.50	No
	802.11be(EHT20) (RU106)/54	13	2472	14.15	14.50	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = $0.876 * (28.18\text{mW}/28.18\text{mW}) = 0.876$ W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.10 2.4G WIFI (Main Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	13.96	14.00	Yes
		6	2437	13.57	14.00	No
		11	2462	13.51	14.00	No
		12	2467	13.75	14.00	No
		13	2472	11.46	12.00	No
	802.11g	1	2412	13.72	14.00	No
		6	2437	13.46	14.00	No
		11	2462	13.62	14.00	No
		12	2467	13.61	14.00	No
		13	2472	13.54	14.00	No
	VHT20	1	2412	13.63	14.00	No
		6	2437	13.49	14.00	No
		11	2462	13.52	14.00	No
		12	2467	13.62	14.00	No
		13	2472	13.72	14.00	No
	VHT40	3	2422	13.49	14.00	No
		6	2437	13.46	14.00	No
		9	2452	13.48	14.00	No
		10	2457	13.50	14.00	No
		11	2462	13.47	14.00	No
	802.11ax(HE20) (SU)	1	2412	13.67	14.00	No
		6	2437	13.61	14.00	No
		11	2462	13.49	14.00	No
		12	2467	13.58	14.00	No
		13	2472	13.61	14.00	No
	802.11ax(HE40) (SU)	3	2422	13.71	14.00	No
		6	2437	13.64	14.00	No
		9	2452	13.49	14.00	No
		10	2457	13.48	14.00	No
		11	2462	13.45	14.00	No
	802.11be(EHT20) (SU)	1	2412	13.63	14.00	No
		6	2437	13.61	14.00	No
		11	2462	13.56	14.00	No
		12	2467	13.60	14.00	No
		13	2472	13.50	14.00	No
	802.11be(EHT40) (SU)	3	2422	13.72	14.00	No
		6	2437	13.65	14.00	No
		9	2452	13.69	14.00	No
		10	2457	13.62	14.00	No

		11	2462	13.74	14.00	No
	802.11be(EHT20) (RU26)/0	1	2412	13.45	14.00	No
	802.11be(EHT20) (RU26)/4	6	2437	13.55	14.00	No
	802.11be(EHT20) (RU26)/8	11	2462	13.58	14.00	No
	802.11be(EHT20) (RU26)/8	12	2467	13.49	14.00	No
	802.11be(EHT20) (RU26)/8	13	2472	13.65	14.00	No
	802.11be(EHT20) (RU52)/37	1	2412	13.46	14.00	No
	802.11be(EHT20) (RU52)/39	6	2437	13.49	14.00	No
	802.11be(EHT20) (RU52)/40	11	2462	13.61	14.00	No
	802.11be(EHT20) (RU52)/40	12	2467	13.70	14.00	No
	802.11be(EHT20) (RU52)/40	13	2472	13.67	14.00	No
	802.11be(EHT20) (RU106)/53	1	2412	13.63	14.00	No
	802.11be(EHT20) (RU106)/53	6	2437	13.65	14.00	No
	802.11be(EHT20) (RU106)/54	11	2462	13.49	14.00	No
	802.11be(EHT20) (RU106)/53	12	2467	13.64	14.00	No
	802.11be(EHT20) (RU106)/54	13	2472	13.47	14.00	No

Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 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.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = $0.628 * (25.12\text{mW}/25.12\text{mW}) = 0.628$ W/Kg, so the 2.4G OFDM SAR test is not required.

8.1.11 2.4G WIFI (MIMO) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4	802.11b	1	2412	16.61	17.00	No
		6	2437	16.70	17.00	No
		11	2462	16.71	17.00	No
		12	2467	15.25	15.50	No
		13	2472	11.47	12.00	No
	802.11g	1	2412	16.50	17.00	No
		6	2437	16.47	17.00	No
		11	2462	16.65	17.00	No
		12	2467	16.58	17.00	No
		13	2472	16.59	17.00	No
	VHT20	1	2412	16.57	17.00	No
		6	2437	16.60	17.00	No
		11	2462	16.65	17.00	No
		12	2467	16.48	17.00	No
		13	2472	16.65	17.00	No
	VHT40	3	2422	16.54	17.00	No
		6	2437	16.45	17.00	No
		9	2452	16.75	17.00	No
		10	2457	16.64	17.00	No
		11	2462	16.49	17.00	No
	802.11ax(HE20) (SU)	1	2412	16.52	17.00	No
		6	2437	16.58	17.00	No
		11	2462	16.54	17.00	No
		12	2467	16.54	17.00	No
		13	2472	16.73	17.00	No
	802.11ax(HE40) (SU)	3	2422	16.48	17.00	No
		6	2437	16.57	17.00	No
		9	2452	16.66	17.00	No
		10	2457	16.60	17.00	No
		11	2462	16.60	17.00	No
	802.11be(EHT20) (SU)	1	2412	16.46	17.00	No
		6	2437	16.71	17.00	No
		11	2462	16.75	17.00	No
		12	2467	16.71	17.00	No
		13	2472	16.50	17.00	No
	802.11be(EHT40) (SU)	3	2422	16.54	17.00	No
		6	2437	16.54	17.00	No
		9	2452	16.57	17.00	No
		10	2457	16.66	17.00	No

		11	2462	16.54	17.00	No
	802.11be(EHT20) (RU26)/0	1	2412	16.48	17.00	No
	802.11be(EHT20) (RU26)/4	6	2437	16.58	17.00	No
	802.11be(EHT20) (RU26)/8	11	2462	16.75	17.00	No
	802.11be(EHT20) (RU26)/8	12	2467	16.46	17.00	No
	802.11be(EHT20) (RU26)/8	13	2472	16.09	16.50	No
	802.11be(EHT20) (RU52)/37	1	2412	16.70	17.00	No
	802.11be(EHT20) (RU52)/39	6	2437	16.66	17.00	No
	802.11be(EHT20) (RU52)/40	11	2462	16.63	17.00	No
	802.11be(EHT20) (RU52)/40	12	2467	16.68	17.00	No
	802.11be(EHT20) (RU52)/40	13	2472	16.51	17.00	No
	802.11be(EHT20) (RU106)/53	1	2412	16.70	17.00	No
	802.11be(EHT20) (RU106)/53	6	2437	16.46	17.00	No
	802.11be(EHT20) (RU106)/54	11	2462	16.67	17.00	No
	802.11be(EHT20) (RU106)/53	12	2467	16.56	17.00	No
	802.11be(EHT20) (RU106)/54	13	2472	16.69	17.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤0.04 the MIMO SAR test is not required.

8.1.12 5G WIFI (Aux. Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	11.47	12.00	No
		40	5200	11.45	12.00	No
		48	5240	11.59	12.00	No
	802.11n(HT20)	36	5180	11.62	12.00	No
		40	5200	11.63	12.00	No
		48	5240	11.68	12.00	No
	802.11n(HT40)	38	5190	11.72	12.00	No
		46	5230	11.55	12.00	No
	802.11ac(VHT20)	36	5180	11.72	12.00	No
		40	5200	11.65	12.00	No
		48	5240	11.66	12.00	No
	802.11ac(VHT40)	38	5190	11.60	12.00	No
		46	5230	11.59	12.00	No
	802.11ac(VHT80)	42	5210	11.67	12.00	No
	802.11ac(VHT160)	50	5250	10.71	11.00	No
	802.11ax(HE20) (SU)	36	5180	11.59	12.00	No
		40	5200	11.56	12.00	No
		48	5240	11.49	12.00	No
	802.11ax(HE40) (SU)	38	5190	11.68	12.00	No
		46	5230	11.64	12.00	No
	802.11ax(HE80) (SU)	42	5210	11.75	12.00	No
	802.11ax(HE160) (SU)	50	5250	10.59	11.00	No
	802.11be(EHT20) (SU)	36	5180	11.49	12.00	No
		40	5200	11.45	12.00	No
		48	5240	11.75	12.00	No
	802.11be(EHT40) (SU)	38	5190	11.70	12.00	No
		46	5230	11.63	12.00	No
	802.11be(EHT80) (SU)	42	5210	11.70	12.00	No
	802.11be(EHT160) (SU)	50	5250	10.56	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	11.69	12.00	No
	802.11ax(HE20) (RU26)/4	40	5200	11.61	12.00	No
	802.11ax(HE20) (RU26)/8	48	5240	11.58	12.00	No
	802.11ax(HE20)	36	5180	11.54	12.00	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	11.62	12.00	No
	802.11ax(HE20) (RU52)/40	48	5240	11.59	12.00	No
	802.11ax(HE20) (RU106)/53	36	5180	11.47	12.00	No
	802.11ax(HE20) (RU106)/53	40	5200	11.69	12.00	No
	802.11ax(HE20) (RU106)/54	48	5240	11.56	12.00	No
	802.11be(EHT20) (RU26)/0	36	5180	11.65	12.00	No
	802.11be(EHT20) (RU26)/4	40	5200	11.69	12.00	No
	802.11be(EHT20) (RU26)/8	48	5240	11.52	12.00	No
	802.11be(EHT20) (RU52)/37	36	5180	11.46	12.00	No
	802.11be(EHT20) (RU52)/39	40	5200	11.67	12.00	No
	802.11be(EHT20) (RU52)/40	48	5240	11.62	12.00	No
	802.11be(EHT20) (RU106)/53	36	5180	11.75	12.00	No
	802.11be(EHT20) (RU106)/53	40	5200	11.59	12.00	No
	802.11be(EHT20) (RU106)/54	48	5240	11.47	12.00	No
5.3	802.11a	52	5260	11.70	12.00	No
		60	5300	11.69	12.00	No
		64	5320	11.69	12.00	No
	802.11n(HT20)	52	5260	11.54	12.00	No
		60	5300	11.48	12.00	No
		64	5320	11.51	12.00	No
	802.11n(HT40)	54	5270	11.53	12.00	No
		62	5310	11.70	12.00	No
	802.11ac(VHT20)	52	5260	11.58	12.00	No
		60	5300	11.58	12.00	No
		64	5320	11.70	12.00	No
	802.11ac(VHT40)	54	5270	11.52	12.00	No
		62	5310	11.47	12.00	No
	802.11ac(VHT80)	58	5290	11.86	12.00	Yes

	802.11ax(HE20) (SU)	52	5260	11.70	12.00	No
		60	5300	11.50	12.00	No
		64	5320	11.69	12.00	No
	802.11ax(HE40) (SU)	54	5270	11.62	12.00	No
		62	5310	11.50	12.00	No
	802.11ax(HE80) (SU)	58	5290	11.64	12.00	No
	802.11be(EHT20) (SU)	52	5260	11.66	12.00	No
		60	5300	11.55	12.00	No
		64	5320	11.59	12.00	No
	802.11be(EHT40) (SU)	54	5270	11.50	12.00	No
		62	5310	11.50	12.00	No
	802.11be(EHT80) (SU)	58	5290	11.68	12.00	No
	802.11ax(HE20) (RU26)/0	52	5260	11.72	12.00	No
	802.11ax(HE20) (RU26)/4	60	5300	11.59	12.00	No
	802.11ax(HE20) (RU26)/8	64	5320	10.65	11.00	No
	802.11ax(HE20) (RU52)/37	52	5260	11.72	12.00	No
	802.11ax(HE20) (RU52)/39	60	5300	11.55	12.00	No
	802.11ax(HE20) (RU52)/40	64	5320	11.48	12.00	No
	802.11ax(HE20) (RU106)/53	52	5260	11.56	12.00	No
	802.11ax(HE20) (RU106)/53	60	5300	11.61	12.00	No
	802.11ax(HE20) (RU106)/54	64	5320	11.62	12.00	No
	802.11be(EHT20) (RU26)/0	52	5260	11.48	12.00	No
	802.11be(EHT20) (RU26)/4	60	5300	11.62	12.00	No
	802.11be(EHT20) (RU26)/8	64	5320	10.67	11.00	No
	802.11be(EHT20) (RU52)/37	52	5260	11.52	12.00	No
	802.11be(EHT20) (RU52)/39	60	5300	11.52	12.00	No
	802.11be(EHT20)	64	5320	11.63	12.00	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	11.73	12.00	No
	802.11be(EHT20) (RU106)/53	60	5300	11.68	12.00	No
	802.11be(EHT20) (RU106)/54	64	5320	11.52	12.00	No
5.6	802.11a	100	5500	9.55	10.00	No
		116	5580	9.74	10.00	No
		140	5700	9.59	10.00	No
		144	5720	9.65	10.00	No
	802.11n(HT20)	100	5500	9.74	10.00	No
		116	5580	9.73	10.00	No
		140	5700	9.69	10.00	No
		144	5720	9.52	10.00	No
	802.11n(HT40)	102	5510	9.49	10.00	No
		110	5550	9.69	10.00	No
		134	5670	9.67	10.00	No
		142	5710	9.53	10.00	No
	802.11ac(VHT20)	100	5500	9.53	10.00	No
		116	5580	9.49	10.00	No
		140	5700	9.73	10.00	No
		144	5720	9.59	10.00	No
	802.11ac(VHT40)	102	5510	9.70	10.00	No
		110	5550	9.55	10.00	No
		134	5670	9.65	10.00	No
		142	5710	9.59	10.00	No
	802.11ac(VHT80)	106	5530	9.91	10.00	Yes
		138	5690	9.87	10.00	No
	802.11ax(HE20) (SU)	100	5500	9.69	10.00	No
		116	5580	9.75	10.00	No
		140	5700	9.58	10.00	No
		144	5720	9.49	10.00	No
	802.11ax(HE40) (SU)	102	5510	9.54	10.00	No
		110	5550	9.54	10.00	No
		134	5670	9.63	10.00	No
		142	5710	9.57	10.00	No
	802.11ax(HE80) (SU)	106	5530	9.59	10.00	No
		138	5690	9.72	10.00	No
	802.11be(EHT20) (SU)	100	5500	9.45	10.00	No
		116	5580	9.47	10.00	No
		140	5700	9.65	10.00	No
		144	5720	9.68	10.00	No

	802.11be(EHT40) (SU)	102	5510	9.64	10.00	No
		110	5550	9.58	10.00	No
		134	5670	9.73	10.00	No
		142	5710	9.62	10.00	No
	802.11be(EHT80) (SU)	106	5530	9.73	10.00	No
		138	5690	9.73	10.00	No
	802.11ax(HE20) (RU26)/0	100	5500	9.58	10.00	No
	802.11ax(HE20) (RU26)/4	116	5580	9.62	10.00	No
	802.11ax(HE20) (RU26)/8	140	5700	8.71	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	9.53	10.00	No
	802.11ax(HE20) (RU52)/37	100	5500	9.72	10.00	No
	802.11ax(HE20) (RU52)/39	116	5580	9.56	10.00	No
	802.11ax(HE20) (RU52)/40	140	5700	9.72	10.00	No
	802.11ax(HE20) (RU52)/40	144	5720	9.62	10.00	No
	802.11ax(HE20) (RU106)/53	100	5500	9.63	10.00	No
	802.11ax(HE20) (RU106)/53	116	5580	9.63	10.00	No
	802.11ax(HE20) (RU106)/54	140	5700	9.47	10.00	No
	802.11ax(HE20) (RU106)/54	144	5720	9.61	10.00	No
	802.11be(EHT20) (RU26)/0	100	5500	9.66	10.00	No
	802.11be(EHT20) (RU26)/4	116	5580	9.60	10.00	No
	802.11be(EHT20) (RU26)/8	140	5700	8.48	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	9.73	10.00	No
	802.11be(EHT20) (RU52)/37	100	5500	9.63	10.00	No
	802.11be(EHT20) (RU52)/39	116	5580	9.63	10.00	No
	802.11be(EHT20)	140	5700	9.60	10.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	9.54	10.00	No
	802.11be(EHT20) (RU106)/53	100	5500	9.65	10.00	No
	802.11be(EHT20) (RU106)/53	116	5580	9.70	10.00	No
	802.11be(EHT20) (RU106)/54	140	5700	9.71	10.00	No
	802.11be(EHT20) (RU106)/54	144	5720	9.63	10.00	No
5.8	802.11a	149	5745	9.02	9.50	No
		157	5785	8.95	9.50	No
		165	5825	9.24	9.50	No
	802.11n(HT20)	149	5745	9.08	9.50	No
		157	5785	9.07	9.50	No
		165	5825	9.24	9.50	No
	802.11n(HT40)	151	5755	9.19	9.50	No
		159	5795	9.04	9.50	No
	802.11ac(VHT20)	149	5745	9.01	9.50	No
		157	5785	9.11	9.50	No
		165	5825	8.96	9.50	No
	802.11ac(VHT40)	151	5755	8.97	9.50	No
		159	5795	8.96	9.50	No
	802.11ac(VHT80)	155	5775	9.37	9.50	Yes
	802.11ax(HE20) (SU)	149	5745	9.11	9.50	No
		157	5785	9.14	9.50	No
		165	5825	9.23	9.50	No
	802.11ax(HE40) (SU)	151	5755	9.09	9.50	No
		159	5795	8.97	9.50	No
	802.11ax(HE80) (SU)	155	5775	9.09	9.50	No
	802.11be(EHT20) (SU)	149	5745	9.18	9.50	No
		157	5785	9.21	9.50	No
		165	5825	9.21	9.50	No
	802.11be(EHT40) (SU)	151	5755	9.12	9.50	No
		159	5795	8.96	9.50	No
	802.11be(EHT80) (SU)	155	5775	9.03	9.50	No
	802.11ax(HE20) (RU26)/0	149	5745	8.95	9.50	No
	802.11ax(HE20) (RU26)/4	157	5785	9.22	9.50	No

	802.11ax(HE20) (RU26)/8	165	5825	9.24	9.50	No
	802.11ax(HE20) (RU52)/37	149	5745	9.02	9.50	No
	802.11ax(HE20) (RU52)/39	157	5785	9.10	9.50	No
	802.11ax(HE20) (RU52)/40	165	5825	8.96	9.50	No
	802.11ax(HE20) (RU106)/53	149	5745	9.23	9.50	No
	802.11ax(HE20) (RU106)/54	157	5785	9.10	9.50	No
	802.11ax(HE20) (RU106)/54	165	5825	8.95	9.50	No
	802.11be(EHT20) (RU26)/0	149	5745	9.01	9.50	No
	802.11be(EHT20) (RU26)/4	157	5785	8.99	9.50	No
	802.11be(EHT20) (RU26)/8	165	5825	9.21	9.50	No
	802.11be(EHT20) (RU52)/37	149	5745	9.09	9.50	No
	802.11be(EHT20) (RU52)/39	157	5785	9.06	9.50	No
	802.11be(EHT20) (RU52)/40	165	5825	9.21	9.50	No
	802.11be(EHT20) (RU106)/53	149	5745	9.04	9.50	No
	802.11be(EHT20) (RU106)/53	157	5785	9.03	9.50	No
	802.11be(EHT20) (RU106)/54	165	5825	9.04	9.50	No
5.9	802.11a	169	5845	9.09	9.50	No
		173	5865	9.21	9.50	No
		177	5885	9.10	9.50	No
	802.11n(HT20)	169	5845	9.03	9.50	No
		173	5865	9.22	9.50	No
		177	5885	8.96	9.50	No
	802.11n(HT40)	167	5835	9.00	9.50	No
		175	5875	8.98	9.50	No
	802.11ac(VHT20)	169	5845	8.97	9.50	No
		173	5865	9.21	9.50	No
		177	5885	8.95	9.50	No

802.11ac(VHT40)	167	5835	9.14	9.50	No
	175	5875	9.06	9.50	No
802.11ac(VHT80)	171	5855	9.18	9.50	No
802.11ac(VHT160)	163	5815	9.43	9.50	Yes
802.11ax(HE20) (SU)	169	5845	9.02	9.50	No
	173	5865	9.07	9.50	No
	177	5885	9.00	9.50	No
802.11ax(HE40) (SU)	167	5835	8.95	9.50	No
	175	5875	9.05	9.50	No
802.11ax(HE80) (SU)	171	5855	9.14	9.50	No
802.11ax(HE160) (SU)	163	5815	8.96	9.50	No
802.11be(EHT20) (SU)	169	5845	9.18	9.50	No
	173	5865	9.05	9.50	No
	177	5885	9.21	9.50	No
802.11be(EHT40) (SU)	167	5835	9.14	9.50	No
	175	5875	9.21	9.50	No
802.11be(EHT80) (SU)	171	5855	9.12	9.50	No
802.11be(EHT160) (SU)	163	5815	9.05	9.50	No
802.11ax(HE20) (RU26)/0	169	5845	8.97	9.50	No
802.11ax(HE20) (RU26)/4	173	5865	9.22	9.50	No
802.11ax(HE20) (RU26)/8	177	5885	9.17	9.50	No
802.11ax(HE20) (RU52)/37	169	5845	9.23	9.50	No
802.11ax(HE20) (RU52)/39	173	5865	9.08	9.50	No
802.11ax(HE20) (RU52)/40	177	5885	9.04	9.50	No
802.11ax(HE20) (RU106)/53	169	5845	9.11	9.50	No
802.11ax(HE20) (RU106)/54	173	5865	9.24	9.50	No
802.11ax(HE20) (RU106)/54	177	5885	9.08	9.50	No
802.11be(EHT20) (RU26)/0	169	5845	8.97	9.50	No
802.11be(EHT20)	173	5865	8.98	9.50	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	9.11	9.50	No
	802.11be(EHT20) (RU52)/37	169	5845	8.95	9.50	No
	802.11be(EHT20) (RU52)/39	173	5865	8.97	9.50	No
	802.11be(EHT20) (RU52)/40	177	5885	8.96	9.50	No
	802.11be(EHT20) (RU106)/53	169	5845	9.21	9.50	No
	802.11be(EHT20) (RU106)/54	173	5865	9.12	9.50	No
	802.11be(EHT20) (RU106)/54	177	5885	9.16	9.50	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.1.13 5G WIFI (Main Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	11.65	12.00	No
		40	5200	11.66	12.00	No
		48	5240	11.73	12.00	No
	802.11n(HT20)	36	5180	11.53	12.00	No
		40	5200	11.71	12.00	No
		48	5240	11.75	12.00	No
	802.11n(HT40)	38	5190	11.55	12.00	No
		46	5230	11.57	12.00	No
	802.11ac(VHT20)	36	5180	11.56	12.00	No
		40	5200	11.58	12.00	No
		48	5240	11.67	12.00	No
	802.11ac(VHT40)	38	5190	11.69	12.00	No
		46	5230	11.62	12.00	No
	802.11ac(VHT80)	42	5210	11.60	12.00	No
	802.11ac(VHT160)	50	5250	10.57	11.00	No
	802.11ax(HE20) (SU)	36	5180	11.71	12.00	No
		40	5200	11.50	12.00	No
		48	5240	11.60	12.00	No
	802.11ax(HE40) (SU)	38	5190	11.63	12.00	No
		46	5230	11.71	12.00	No
	802.11ax(HE80) (SU)	42	5210	11.73	12.00	No
	802.11ax(HE160) (SU)	50	5250	10.65	11.00	No
	802.11be(EHT20) (SU)	36	5180	11.74	12.00	No
		40	5200	11.72	12.00	No
		48	5240	11.73	12.00	No
	802.11be(EHT40) (SU)	38	5190	11.67	12.00	No
		46	5230	11.70	12.00	No
	802.11be(EHT80) (SU)	42	5210	11.55	12.00	No
	802.11be(EHT160) (SU)	50	5250	10.64	11.00	No
	802.11ax(HE20) (RU26)/0	36	5180	11.73	12.00	No
	802.11ax(HE20) (RU26)/4	40	5200	11.52	12.00	No
	802.11ax(HE20) (RU26)/8	48	5240	11.51	12.00	No
	802.11ax(HE20)	36	5180	11.57	12.00	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	11.61	12.00	No
	802.11ax(HE20) (RU52)/40	48	5240	11.53	12.00	No
	802.11ax(HE20) (RU106)/53	36	5180	11.65	12.00	No
	802.11ax(HE20) (RU106)/53	40	5200	11.67	12.00	No
	802.11ax(HE20) (RU106)/54	48	5240	11.52	12.00	No
	802.11be(EHT20) (RU26)/0	36	5180	11.74	12.00	No
	802.11be(EHT20) (RU26)/4	40	5200	11.61	12.00	No
	802.11be(EHT20) (RU26)/8	48	5240	11.73	12.00	No
	802.11be(EHT20) (RU52)/37	36	5180	11.59	12.00	No
	802.11be(EHT20) (RU52)/39	40	5200	11.71	12.00	No
	802.11be(EHT20) (RU52)/40	48	5240	11.56	12.00	No
	802.11be(EHT20) (RU106)/53	36	5180	11.50	12.00	No
	802.11be(EHT20) (RU106)/53	40	5200	11.51	12.00	No
	802.11be(EHT20) (RU106)/54	48	5240	11.65	12.00	No
5.3	802.11a	52	5260	11.48	12.00	No
		60	5300	11.65	12.00	No
		64	5320	11.63	12.00	No
	802.11n(HT20)	52	5260	11.64	12.00	No
		60	5300	11.61	12.00	No
		64	5320	11.56	12.00	No
	802.11n(HT40)	54	5270	11.70	12.00	No
		62	5310	11.63	12.00	No
	802.11ac(VHT20)	52	5260	11.56	12.00	No
		60	5300	11.50	12.00	No
		64	5320	11.49	12.00	No
	802.11ac(VHT40)	54	5270	11.52	12.00	No
		62	5310	11.54	12.00	No
	802.11ac(VHT80)	58	5290	11.96	12.00	Yes

	802.11ax(HE20) (SU)	52	5260	11.63	12.00	No
		60	5300	11.45	12.00	No
		64	5320	11.65	12.00	No
	802.11ax(HE40) (SU)	54	5270	11.67	12.00	No
		62	5310	11.70	12.00	No
	802.11ax(HE80) (SU)	58	5290	11.55	12.00	No
	802.11be(EHT20) (SU)	52	5260	11.50	12.00	No
		60	5300	11.72	12.00	No
		64	5320	11.58	12.00	No
	802.11be(EHT40) (SU)	54	5270	11.65	12.00	No
		62	5310	11.56	12.00	No
	802.11be(EHT80) (SU)	58	5290	11.45	12.00	No
	802.11ax(HE20) (RU26)/0	52	5260	11.51	12.00	No
	802.11ax(HE20) (RU26)/4	60	5300	11.52	12.00	No
	802.11ax(HE20) (RU26)/8	64	5320	10.61	11.00	No
	802.11ax(HE20) (RU52)/37	52	5260	11.62	12.00	No
	802.11ax(HE20) (RU52)/39	60	5300	11.54	12.00	No
	802.11ax(HE20) (RU52)/40	64	5320	11.72	12.00	No
	802.11ax(HE20) (RU106)/53	52	5260	11.67	12.00	No
	802.11ax(HE20) (RU106)/53	60	5300	11.64	12.00	No
	802.11ax(HE20) (RU106)/54	64	5320	11.58	12.00	No
	802.11be(EHT20) (RU26)/0	52	5260	11.61	12.00	No
	802.11be(EHT20) (RU26)/4	60	5300	11.71	12.00	No
	802.11be(EHT20) (RU26)/8	64	5320	10.74	11.00	No
	802.11be(EHT20) (RU52)/37	52	5260	11.50	12.00	No
	802.11be(EHT20) (RU52)/39	60	5300	11.48	12.00	No
	802.11be(EHT20)	64	5320	11.47	12.00	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	11.58	12.00	No
	802.11be(EHT20) (RU106)/53	60	5300	11.72	12.00	No
	802.11be(EHT20) (RU106)/54	64	5320	11.64	12.00	No
5.6	802.11a	100	5500	9.45	10.00	No
		116	5580	9.52	10.00	No
		140	5700	9.66	10.00	No
		144	5720	9.65	10.00	No
	802.11n(HT20)	100	5500	9.56	10.00	No
		116	5580	9.47	10.00	No
		140	5700	9.60	10.00	No
		144	5720	9.51	10.00	No
	802.11n(HT40)	102	5510	9.48	10.00	No
		110	5550	9.52	10.00	No
		134	5670	9.75	10.00	No
		142	5710	9.53	10.00	No
	802.11ac(VHT20)	100	5500	9.70	10.00	No
		116	5580	9.67	10.00	No
		140	5700	9.73	10.00	No
		144	5720	9.71	10.00	No
	802.11ac(VHT40)	102	5510	9.55	10.00	No
		110	5550	9.55	10.00	No
		134	5670	9.47	10.00	No
		142	5710	9.55	10.00	No
	802.11ac(VHT80)	106	5530	9.71	10.00	Yes
		138	5690	9.38	10.00	Yes
	802.11ax(HE20) (SU)	100	5500	9.68	10.00	No
		116	5580	9.46	10.00	No
		140	5700	9.53	10.00	No
		144	5720	9.57	10.00	No
	802.11ax(HE40) (SU)	102	5510	9.56	10.00	No
		110	5550	9.60	10.00	No
		134	5670	9.48	10.00	No
		142	5710	9.55	10.00	No
	802.11ax(HE80) (SU)	106	5530	9.60	10.00	No
		138	5690	9.62	10.00	No
	802.11be(EHT20) (SU)	100	5500	9.46	10.00	No
		116	5580	9.67	10.00	No
		140	5700	9.57	10.00	No
		144	5720	9.70	10.00	No

	802.11be(EHT40) (SU)	102	5510	9.58	10.00	No
		110	5550	9.68	10.00	No
		134	5670	9.75	10.00	No
		142	5710	9.67	10.00	No
	802.11be(EHT80) (SU)	106	5530	9.48	10.00	No
		138	5690	9.59	10.00	No
	802.11ax(HE20) (RU26)/0	100	5500	9.65	10.00	No
	802.11ax(HE20) (RU26)/4	116	5580	9.70	10.00	No
	802.11ax(HE20) (RU26)/8	140	5700	8.62	9.00	No
	802.11ax(HE20) (RU26)/8	144	5720	9.67	10.00	No
	802.11ax(HE20) (RU52)/37	100	5500	9.65	10.00	No
	802.11ax(HE20) (RU52)/39	116	5580	9.67	10.00	No
	802.11ax(HE20) (RU52)/40	140	5700	9.48	10.00	No
	802.11ax(HE20) (RU52)/40	144	5720	9.71	10.00	No
	802.11ax(HE20) (RU106)/53	100	5500	9.65	10.00	No
	802.11ax(HE20) (RU106)/53	116	5580	9.54	10.00	No
	802.11ax(HE20) (RU106)/54	140	5700	9.74	10.00	No
	802.11ax(HE20) (RU106)/54	144	5720	9.57	10.00	No
	802.11be(EHT20) (RU26)/0	100	5500	9.52	10.00	No
	802.11be(EHT20) (RU26)/4	116	5580	9.60	10.00	No
	802.11be(EHT20) (RU26)/8	140	5700	8.56	9.00	No
	802.11be(EHT20) (RU26)/8	144	5720	9.61	10.00	No
	802.11be(EHT20) (RU52)/37	100	5500	9.65	10.00	No
	802.11be(EHT20) (RU52)/39	116	5580	9.48	10.00	No
	802.11be(EHT20)	140	5700	9.67	10.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	9.58	10.00	No
	802.11be(EHT20) (RU106)/53	100	5500	9.47	10.00	No
	802.11be(EHT20) (RU106)/53	116	5580	9.74	10.00	No
	802.11be(EHT20) (RU106)/54	140	5700	9.58	10.00	No
	802.11be(EHT20) (RU106)/54	144	5720	9.48	10.00	No
5.8	802.11a	149	5745	9.60	10.00	No
		157	5785	9.71	10.00	No
		165	5825	9.54	10.00	No
	802.11n(HT20)	149	5745	9.60	10.00	No
		157	5785	9.54	10.00	No
		165	5825	9.57	10.00	No
	802.11n(HT40)	151	5755	9.57	10.00	No
		159	5795	9.64	10.00	No
	802.11ac(VHT20)	149	5745	9.71	10.00	No
		157	5785	9.75	10.00	No
		165	5825	9.62	10.00	No
	802.11ac(VHT40)	151	5755	9.64	10.00	No
		159	5795	9.49	10.00	No
	802.11ac(VHT80)	155	5775	9.89	10.00	Yes
	802.11ax(HE20) (SU)	149	5745	9.46	10.00	No
		157	5785	9.49	10.00	No
		165	5825	9.49	10.00	No
	802.11ax(HE40) (SU)	151	5755	9.47	10.00	No
		159	5795	9.61	10.00	No
	802.11ax(HE80) (SU)	155	5775	9.57	10.00	No
	802.11be(EHT20) (SU)	149	5745	9.50	10.00	No
		157	5785	9.64	10.00	No
		165	5825	9.62	10.00	No
	802.11be(EHT40) (SU)	151	5755	9.66	10.00	No
		159	5795	9.67	10.00	No
	802.11be(EHT80) (SU)	155	5775	9.75	10.00	No
	802.11ax(HE20) (RU26)/0	149	5745	9.70	10.00	No
	802.11ax(HE20) (RU26)/4	157	5785	9.69	10.00	No

	802.11ax(HE20) (RU26)/8	165	5825	9.45	10.00	No
	802.11ax(HE20) (RU52)/37	149	5745	9.51	10.00	No
	802.11ax(HE20) (RU52)/39	157	5785	9.62	10.00	No
	802.11ax(HE20) (RU52)/40	165	5825	9.69	10.00	No
	802.11ax(HE20) (RU106)/53	149	5745	9.53	10.00	No
	802.11ax(HE20) (RU106)/54	157	5785	9.52	10.00	No
	802.11ax(HE20) (RU106)/54	165	5825	9.62	10.00	No
	802.11be(EHT20) (RU26)/0	149	5745	9.70	10.00	No
	802.11be(EHT20) (RU26)/4	157	5785	9.60	10.00	No
	802.11be(EHT20) (RU26)/8	165	5825	9.65	10.00	No
	802.11be(EHT20) (RU52)/37	149	5745	9.51	10.00	No
	802.11be(EHT20) (RU52)/39	157	5785	9.47	10.00	No
	802.11be(EHT20) (RU52)/40	165	5825	9.67	10.00	No
	802.11be(EHT20) (RU106)/53	149	5745	9.51	10.00	No
	802.11be(EHT20) (RU106)/53	157	5785	9.54	10.00	No
	802.11be(EHT20) (RU106)/54	165	5825	9.48	10.00	No
5.9	802.11a	169	5845	9.68	10.00	No
		173	5865	9.74	10.00	No
		177	5885	9.71	10.00	No
	802.11n(HT20)	169	5845	9.61	10.00	No
		173	5865	9.75	10.00	No
		177	5885	9.55	10.00	No
	802.11n(HT40)	167	5835	9.56	10.00	No
		175	5875	9.51	10.00	No
	802.11ac(VHT20)	169	5845	9.63	10.00	No
		173	5865	9.51	10.00	No
		177	5885	9.64	10.00	No

	802.11ac(VHT40)	167	5835	9.59	10.00	No
		175	5875	9.58	10.00	No
	802.11ac(VHT80)	171	5855	9.62	10.00	No
	802.11ac(VHT160)	163	5815	9.51	10.00	Yes
	802.11ax(HE20) (SU)	169	5845	9.52	10.00	No
		173	5865	9.56	10.00	No
		177	5885	9.50	10.00	No
	802.11ax(HE40) (SU)	167	5835	9.74	10.00	No
		175	5875	9.66	10.00	No
	802.11ax(HE80) (SU)	171	5855	9.67	10.00	No
	802.11ax(HE160) (SU)	163	5815	9.66	10.00	No
	802.11be(EHT20) (SU)	169	5845	9.50	10.00	No
		173	5865	9.68	10.00	No
		177	5885	9.66	10.00	No
	802.11be(EHT40) (SU)	167	5835	9.49	10.00	No
		175	5875	9.62	10.00	No
	802.11be(EHT80) (SU)	171	5855	9.53	10.00	No
	802.11be(EHT160) (SU)	163	5815	9.57	10.00	No
	802.11ax(HE20) (RU26)/0	169	5845	9.52	10.00	No
	802.11ax(HE20) (RU26)/4	173	5865	9.70	10.00	No
	802.11ax(HE20) (RU26)/8	177	5885	9.67	10.00	No
	802.11ax(HE20) (RU52)/37	169	5845	9.46	10.00	No
	802.11ax(HE20) (RU52)/39	173	5865	9.56	10.00	No
	802.11ax(HE20) (RU52)/40	177	5885	9.58	10.00	No
	802.11ax(HE20) (RU106)/53	169	5845	9.49	10.00	No
	802.11ax(HE20) (RU106)/54	173	5865	9.67	10.00	No
	802.11ax(HE20) (RU106)/54	177	5885	9.55	10.00	No
	802.11be(EHT20) (RU26)/0	169	5845	9.56	10.00	No
	802.11be(EHT20)	173	5865	9.69	10.00	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	9.45	10.00	No
	802.11be(EHT20) (RU52)/37	169	5845	9.51	10.00	No
	802.11be(EHT20) (RU52)/39	173	5865	9.66	10.00	No
	802.11be(EHT20) (RU52)/40	177	5885	9.65	10.00	No
	802.11be(EHT20) (RU106)/53	169	5845	9.55	10.00	No
	802.11be(EHT20) (RU106)/54	173	5865	9.62	10.00	No
	802.11be(EHT20) (RU106)/54	177	5885	9.65	10.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.1.14 5G WIFI (MIMO) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2	802.11a	36	5180	14.69	15.00	No
		40	5200	14.65	15.00	No
		48	5240	14.53	15.00	No
	802.11n(HT20)	36	5180	14.73	15.00	No
		40	5200	14.68	15.00	No
		48	5240	14.55	15.00	No
	802.11n(HT40)	38	5190	14.70	15.00	No
		46	5230	14.65	15.00	No
	802.11ac(VHT20)	36	5180	14.67	15.00	No
		40	5200	14.62	15.00	No
		48	5240	14.61	15.00	No
	802.11ac(VHT40)	38	5190	14.45	15.00	No
		46	5230	14.62	15.00	No
	802.11ac(VHT80)	42	5210	14.53	15.00	No
	802.11ac(VHT160)	50	5250	13.14	13.50	No
	802.11ax(HE20) (SU)	36	5180	14.49	15.00	No
		40	5200	14.50	15.00	No
		48	5240	14.52	15.00	No
	802.11ax(HE40) (SU)	38	5190	14.59	15.00	No
		46	5230	14.66	15.00	No
	802.11ax(HE80) (SU)	42	5210	14.61	15.00	No
	802.11ax(HE160) (SU)	50	5250	13.25	13.50	No
	802.11be(EHT20) (SU)	36	5180	14.74	15.00	No
		40	5200	14.61	15.00	No
		48	5240	14.49	15.00	No
	802.11be(EHT40) (SU)	38	5190	14.73	15.00	No
		46	5230	14.73	15.00	No
	802.11be(EHT80) (SU)	42	5210	14.57	15.00	No
	802.11be(EHT160) (SU)	50	5250	13.17	13.50	No
	802.11ax(HE20) (RU26)/0	36	5180	13.13	13.50	No
	802.11ax(HE20) (RU26)/4	40	5200	13.16	13.50	No
	802.11ax(HE20) (RU26)/8	48	5240	13.13	13.50	No
	802.11ax(HE20)	36	5180	14.55	15.00	No

	(RU52)/37					
	802.11ax(HE20) (RU52)/39	40	5200	14.55	15.00	No
	802.11ax(HE20) (RU52)/40	48	5240	14.73	15.00	No
	802.11ax(HE20) (RU106)/53	36	5180	14.61	15.00	No
	802.11ax(HE20) (RU106)/53	40	5200	14.69	15.00	No
	802.11ax(HE20) (RU106)/54	48	5240	14.61	15.00	No
	802.11be(EHT20) (RU26)/0	36	5180	13.13	13.50	No
	802.11be(EHT20) (RU26)/4	40	5200	13.18	13.50	No
	802.11be(EHT20) (RU26)/8	48	5240	13.10	13.50	No
	802.11be(EHT20) (RU52)/37	36	5180	14.75	15.00	No
	802.11be(EHT20) (RU52)/39	40	5200	14.49	15.00	No
	802.11be(EHT20) (RU52)/40	48	5240	14.46	15.00	No
	802.11be(EHT20) (RU106)/53	36	5180	14.56	15.00	No
	802.11be(EHT20) (RU106)/53	40	5200	14.51	15.00	No
	802.11be(EHT20) (RU106)/54	48	5240	14.65	15.00	No
5.3	802.11a	52	5260	14.60	15.00	No
		60	5300	14.74	15.00	No
		64	5320	14.48	15.00	No
	802.11n(HT20)	52	5260	14.74	15.00	No
		60	5300	14.48	15.00	No
		64	5320	14.48	15.00	No
	802.11n(HT40)	54	5270	14.50	15.00	No
		62	5310	14.46	15.00	No
	802.11ac(VHT20)	52	5260	14.47	15.00	No
		60	5300	14.49	15.00	No
		64	5320	14.75	15.00	No
	802.11ac(VHT40)	54	5270	14.48	15.00	No
		62	5310	14.51	15.00	No
	802.11ac(VHT80)	58	5290	14.74	15.00	No

	802.11ax(HE20) (SU)	52	5260	14.59	15.00	No
		60	5300	14.73	15.00	No
		64	5320	14.62	15.00	No
	802.11ax(HE40) (SU)	54	5270	14.70	15.00	No
		62	5310	14.69	15.00	No
	802.11ax(HE80) (SU)	58	5290	14.68	15.00	No
	802.11be(EHT20) (SU)	52	5260	14.71	15.00	No
		60	5300	14.49	15.00	No
		64	5320	14.54	15.00	No
	802.11be(EHT40) (SU)	54	5270	14.68	15.00	No
		62	5310	14.61	15.00	No
	802.11be(EHT80) (SU)	58	5290	14.63	15.00	No
	802.11ax(HE20) (RU26)/0	52	5260	13.17	13.50	No
	802.11ax(HE20) (RU26)/4	60	5300	13.04	13.50	No
	802.11ax(HE20) (RU26)/8	64	5320	13.23	13.50	No
	802.11ax(HE20) (RU52)/37	52	5260	14.51	15.00	No
	802.11ax(HE20) (RU52)/39	60	5300	14.65	15.00	No
	802.11ax(HE20) (RU52)/40	64	5320	14.62	15.00	No
	802.11ax(HE20) (RU106)/53	52	5260	14.45	15.00	No
	802.11ax(HE20) (RU106)/53	60	5300	14.52	15.00	No
	802.11ax(HE20) (RU106)/54	64	5320	14.47	15.00	No
	802.11be(EHT20) (RU26)/0	52	5260	13.17	13.50	No
	802.11be(EHT20) (RU26)/4	60	5300	13.10	13.50	No
	802.11be(EHT20) (RU26)/8	64	5320	13.25	13.50	No
	802.11be(EHT20) (RU52)/37	52	5260	14.74	15.00	No
	802.11be(EHT20) (RU52)/39	60	5300	14.58	15.00	No
	802.11be(EHT20)	64	5320	14.48	15.00	No

	(RU52)/40					
	802.11be(EHT20) (RU106)/53	52	5260	14.71	15.00	No
	802.11be(EHT20) (RU106)/53	60	5300	14.49	15.00	No
	802.11be(EHT20) (RU106)/54	64	5320	14.71	15.00	No
5.6	802.11a	100	5500	12.55	13.00	No
		116	5580	12.62	13.00	No
		140	5700	12.61	13.00	No
		144	5720	12.61	13.00	No
	802.11n(HT20)	100	5500	12.74	13.00	No
		116	5580	12.59	13.00	No
		140	5700	12.55	13.00	No
		144	5720	12.68	13.00	No
	802.11n(HT40)	102	5510	12.45	13.00	No
		110	5550	12.46	13.00	No
		134	5670	12.55	13.00	No
		142	5710	12.61	13.00	No
	802.11ac(VHT20)	100	5500	12.49	13.00	No
		116	5580	12.51	13.00	No
		140	5700	12.46	13.00	No
		144	5720	12.50	13.00	No
	802.11ac(VHT40)	102	5510	12.62	13.00	No
		110	5550	12.46	13.00	No
		134	5670	12.60	13.00	No
		142	5710	12.57	13.00	No
	802.11ac(VHT80)	106	5530	12.50	13.00	No
		138	5690	12.74	13.00	No
	802.11ax(HE20) (SU)	100	5500	12.59	13.00	No
		116	5580	12.67	13.00	No
		140	5700	12.51	13.00	No
		144	5720	12.51	13.00	No
	802.11ax(HE40) (SU)	102	5510	12.57	13.00	No
		110	5550	12.55	13.00	No
		134	5670	12.63	13.00	No
		142	5710	12.62	13.00	No
	802.11ax(HE80) (SU)	106	5530	12.47	13.00	No
		138	5690	12.46	13.00	No
	802.11be(EHT20) (SU)	100	5500	12.61	13.00	No
		116	5580	12.53	13.00	No
		140	5700	12.53	13.00	No
		144	5720	12.72	13.00	No

	802.11be(EHT40) (SU)	102	5510	12.69	13.00	No
		110	5550	12.62	13.00	No
		134	5670	12.46	13.00	No
		142	5710	12.61	13.00	No
	802.11be(EHT80) (SU)	106	5530	12.69	13.00	No
		138	5690	12.56	13.00	No
	802.11ax(HE20) (RU26)/0	100	5500	12.52	13.00	No
	802.11ax(HE20) (RU26)/4	116	5580	12.57	13.00	No
	802.11ax(HE20) (RU26)/8	140	5700	11.15	11.50	No
	802.11ax(HE20) (RU26)/8	144	5720	12.58	13.00	No
	802.11ax(HE20) (RU52)/37	100	5500	12.47	13.00	No
	802.11ax(HE20) (RU52)/39	116	5580	12.63	13.00	No
	802.11ax(HE20) (RU52)/40	140	5700	12.46	13.00	No
	802.11ax(HE20) (RU52)/40	144	5720	12.50	13.00	No
	802.11ax(HE20) (RU106)/53	100	5500	12.54	13.00	No
	802.11ax(HE20) (RU106)/53	116	5580	12.53	13.00	No
	802.11ax(HE20) (RU106)/54	140	5700	12.47	13.00	No
	802.11ax(HE20) (RU106)/54	144	5720	12.52	13.00	No
	802.11be(EHT20) (RU26)/0	100	5500	12.62	13.00	No
	802.11be(EHT20) (RU26)/4	116	5580	12.60	13.00	No
	802.11be(EHT20) (RU26)/8	140	5700	11.15	11.50	No
	802.11be(EHT20) (RU26)/8	144	5720	12.51	13.00	No
	802.11be(EHT20) (RU52)/37	100	5500	12.61	13.00	No
	802.11be(EHT20) (RU52)/39	116	5580	12.53	13.00	No
	802.11be(EHT20)	140	5700	12.68	13.00	No

	(RU52)/39					
	802.11be(EHT20) (RU52)/40	144	5720	12.60	13.00	No
	802.11be(EHT20) (RU106)/53	100	5500	12.65	13.00	No
	802.11be(EHT20) (RU106)/53	116	5580	12.47	13.00	No
	802.11be(EHT20) (RU106)/54	140	5700	12.65	13.00	No
	802.11be(EHT20) (RU106)/54	144	5720	12.69	13.00	No
5.8	802.11a	149	5745	12.25	12.50	No
		157	5785	12.10	12.50	No
		165	5825	12.10	12.50	No
	802.11n(HT20)	149	5745	12.14	12.50	No
		157	5785	11.97	12.50	No
		165	5825	11.95	12.50	No
	802.11n(HT40)	151	5755	12.11	12.50	No
		159	5795	12.18	12.50	No
	802.11ac(VHT20)	149	5745	12.06	12.50	No
		157	5785	11.98	12.50	No
		165	5825	11.99	12.50	No
	802.11ac(VHT40)	151	5755	12.07	12.50	No
		159	5795	12.14	12.50	No
	802.11ac(VHT80)	155	5775	12.07	12.50	No
	802.11ax(HE20) (SU)	149	5745	12.23	12.50	No
		157	5785	12.17	12.50	No
		165	5825	12.10	12.50	No
	802.11ax(HE40) (SU)	151	5755	11.98	12.50	No
		159	5795	12.21	12.50	No
	802.11ax(HE80) (SU)	155	5775	12.12	12.50	No
	802.11be(EHT20) (SU)	149	5745	12.15	12.50	No
		157	5785	12.19	12.50	No
		165	5825	12.23	12.50	No
	802.11be(EHT40) (SU)	151	5755	12.01	12.50	No
		159	5795	12.02	12.50	No
	802.11be(EHT80) (SU)	155	5775	12.02	12.50	No
	802.11ax(HE20) (RU26)/0	149	5745	11.97	12.50	No
	802.11ax(HE20) (RU26)/4	157	5785	12.22	12.50	No

	802.11ax(HE20) (RU26)/8	165	5825	12.15	12.50	No
	802.11ax(HE20) (RU52)/37	149	5745	11.96	12.50	No
	802.11ax(HE20) (RU52)/39	157	5785	12.12	12.50	No
	802.11ax(HE20) (RU52)/40	165	5825	12.07	12.50	No
	802.11ax(HE20) (RU106)/53	149	5745	12.18	12.50	No
	802.11ax(HE20) (RU106)/54	157	5785	12.09	12.50	No
	802.11ax(HE20) (RU106)/54	165	5825	12.00	12.50	No
	802.11be(EHT20) (RU26)/0	149	5745	12.20	12.50	No
	802.11be(EHT20) (RU26)/4	157	5785	11.99	12.50	No
	802.11be(EHT20) (RU26)/8	165	5825	12.11	12.50	No
	802.11be(EHT20) (RU52)/37	149	5745	12.05	12.50	No
	802.11be(EHT20) (RU52)/39	157	5785	12.17	12.50	No
	802.11be(EHT20) (RU52)/40	165	5825	11.96	12.50	No
	802.11be(EHT20) (RU106)/53	149	5745	12.17	12.50	No
	802.11be(EHT20) (RU106)/53	157	5785	11.97	12.50	No
	802.11be(EHT20) (RU106)/54	165	5825	11.96	12.50	No
5.9	802.11a	169	5845	12.04	12.50	No
		173	5865	12.02	12.50	No
		177	5885	12.18	12.50	No
	802.11n(HT20)	169	5845	12.12	12.50	No
		173	5865	11.98	12.50	No
		177	5885	11.98	12.50	No
	802.11n(HT40)	167	5835	12.09	12.50	No
		175	5875	12.11	12.50	No
	802.11ac(VHT20)	169	5845	12.00	12.50	No
		173	5865	11.97	12.50	No
		177	5885	11.96	12.50	No

	802.11ac(VHT40)	167	5835	12.09	12.50	No
		175	5875	12.23	12.50	No
	802.11ac(VHT80)	171	5855	12.13	12.50	No
	802.11ac(VHT160)	163	5815	11.98	12.50	No
	802.11ax(HE20) (SU)	169	5845	12.12	12.50	No
		173	5865	12.18	12.50	No
		177	5885	12.00	12.50	No
	802.11ax(HE40) (SU)	167	5835	12.24	12.50	No
		175	5875	12.09	12.50	No
	802.11ax(HE80) (SU)	171	5855	12.11	12.50	No
	802.11ax(HE160) (SU)	163	5815	12.14	12.50	No
	802.11be(EHT20) (SU)	169	5845	11.96	12.50	No
		173	5865	12.00	12.50	No
		177	5885	12.05	12.50	No
	802.11be(EHT40) (SU)	167	5835	12.10	12.50	No
		175	5875	12.20	12.50	No
	802.11be(EHT80) (SU)	171	5855	12.14	12.50	No
	802.11be(EHT160) (SU)	163	5815	12.24	12.50	No
	802.11ax(HE20) (RU26)/0	169	5845	11.23	12.00	No
	802.11ax(HE20) (RU26)/4	173	5865	11.45	12.00	No
	802.11ax(HE20) (RU26)/8	177	5885	11.32	12.00	No
	802.11ax(HE20) (RU52)/37	169	5845	12.08	12.50	No
	802.11ax(HE20) (RU52)/39	173	5865	11.96	12.50	No
	802.11ax(HE20) (RU52)/40	177	5885	12.03	12.50	No
	802.11ax(HE20) (RU106)/53	169	5845	12.08	12.50	No
	802.11ax(HE20) (RU106)/54	173	5865	12.25	12.50	No
	802.11ax(HE20) (RU106)/54	177	5885	12.00	12.50	No
	802.11be(EHT20) (RU26)/0	169	5845	11.43	12.00	No
	802.11be(EHT20)	173	5865	11.62	12.00	No

	(RU26)/4					
	802.11be(EHT20) (RU26)/8	177	5885	11.55	12.00	No
	802.11be(EHT20) (RU52)/37	169	5845	12.23	12.50	No
	802.11be(EHT20) (RU52)/39	173	5865	12.20	12.50	No
	802.11be(EHT20) (RU52)/40	177	5885	12.11	12.50	No
	802.11be(EHT20) (RU106)/53	169	5845	12.07	12.50	No
	802.11be(EHT20) (RU106)/54	173	5865	12.19	12.50	No
	802.11be(EHT20) (RU106)/54	177	5885	12.06	12.50	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤ 0.04 the MIMO SAR test is not required.

8.1.15 6G WIFI (Aux. Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	6.42	7.00	No
		49	6195	6.46	7.00	No
		93	6415	6.48	7.00	No
		97	6435	6.38	7.00	No
		105	6475	6.47	7.00	No
		113	6515	6.48	7.00	No
		117	6535	6.51	7.00	No
		149	6695	6.46	7.00	No
		181	6855	6.49	7.00	No
		185	6875	6.53	7.00	No
		189	6895	6.39	7.00	No
		209	6995	6.32	7.00	No
		229	7095	6.39	7.00	No
		233	7115	6.50	7.00	No
	802.11ax(HE20) (SU)	1	5955	6.33	7.00	No
		49	6195	6.37	7.00	No
		93	6415	6.47	7.00	No
		97	6435	6.28	7.00	No
		105	6475	6.47	7.00	No
		113	6515	6.48	7.00	No
		117	6535	6.29	7.00	No
		149	6695	6.28	7.00	No
		181	6855	6.30	7.00	No
		185	6875	6.26	7.00	No
		209	6995	6.50	7.00	No
		233	7115	6.47	7.00	No
	802.11ax(HE40) (SU)	3	5965	7.41	8.00	No
		51	6205	7.46	8.00	No
		91	6405	7.26	8.00	No
		99	6445	7.45	8.00	No
		107	6485	7.36	8.00	No
		115	6525	7.34	8.00	No
		123	6565	7.59	8.00	No
		147	6685	7.32	8.00	No
		179	6845	7.40	8.00	No
		187	6885	7.31	8.00	No
		195	6925	7.37	8.00	No
		211	7005	7.27	8.00	No
		227	7085	7.57	8.00	No

	802.11ax(HE80) (SU)	7	5985	10.47	11.00	No
		55	6225	10.45	11.00	No
		87	6385	10.40	11.00	No
		103	6465	10.27	11.00	No
		119	6545	10.37	11.00	No
		135	6625	10.31	11.00	No
		151	6705	10.27	11.00	No
		167	6785	10.60	11.00	No
		183	6865	10.54	11.00	No
		199	6945	10.30	11.00	No
		215	7025	10.52	11.00	No
	802.11ax(HE160) (SU)	15	6025	10.83	11.00	Yes
		47	6185	10.80	11.00	No
		79	6345	10.71	11.00	No
		111	6505	10.34	11.00	No
		143	6665	10.65	11.00	No
		175	6825	10.71	11.00	No
		207	6985	10.71	11.00	No
	802.11be(EHT20) (SU)	1	5955	6.32	7.00	No
		49	6195	6.39	7.00	No
		93	6415	6.31	7.00	No
		97	6435	6.39	7.00	No
		105	6475	6.54	7.00	No
		113	6515	6.54	7.00	No
		117	6535	6.34	7.00	No
		149	6695	6.39	7.00	No
		181	6855	6.33	7.00	No
		185	6875	6.27	7.00	No
		209	6995	6.33	7.00	No
		233	7115	6.43	7.00	No
	802.11be(EHT40) (SU)	3	5965	7.27	8.00	No
		51	6205	7.25	8.00	No
		91	6405	7.32	8.00	No
		99	6445	7.25	8.00	No
		107	6485	7.35	8.00	No
		115	6525	7.30	8.00	No
		123	6565	7.49	8.00	No
		147	6685	7.48	8.00	No
		179	6845	7.58	8.00	No
		187	6885	7.39	8.00	No
		195	6925	7.33	8.00	No
		211	7005	7.25	8.00	No
		227	7085	7.40	8.00	No

	802.11be(EHT80) (SU)	7	5985	10.50	11.00	No
		55	6225	10.39	11.00	No
		87	6385	10.47	11.00	No
		103	6465	10.57	11.00	No
		119	6545	10.44	11.00	No
		135	6625	10.46	11.00	No
		151	6705	10.41	11.00	No
		167	6785	10.33	11.00	No
		183	6865	10.38	11.00	No
		199	6945	10.44	11.00	No
		215	7025	10.59	11.00	No
	802.11be(EHT160) (SU)	15	6025	10.51	11.00	No
		47	6185	10.48	11.00	No
		79	6345	10.26	11.00	No
		111	6505	10.55	11.00	No
		143	6665	10.53	11.00	No
		175	6825	10.56	11.00	No
		207	6985	10.56	11.00	No
	802.11be(EHT20) (RU26)	1	5955	-1.43	-1.00	No
		49	6195	-1.59	-1.00	No
		93	6415	-1.61	-1.00	No
		97	6435	-1.53	-1.00	No
		105	6475	-1.59	-1.00	No
		113	6515	-1.75	-1.00	No
		117	6535	-1.68	-1.00	No
		149	6695	-1.67	-1.00	No
		181	6855	-1.64	-1.00	No
		185	6875	-1.45	-1.00	No
		209	6995	-1.40	-1.00	No
		233	7115	-1.61	-1.00	No
	802.11be(EHT20) (RU52)	1	5955	0.91	1.50	No
		49	6195	0.96	1.50	No
		93	6415	1.03	1.50	No
		97	6435	0.75	1.50	No
		105	6475	0.91	1.50	No
		113	6515	0.82	1.50	No
		117	6535	0.78	1.50	No
		149	6695	0.93	1.50	No
		181	6855	1.06	1.50	No
		185	6875	0.95	1.50	No
		209	6995	0.99	1.50	No
		233	7115	1.10	1.50	No
	802.11be(EHT20)	1	5955	3.58	4.00	No

	(RU106)	49	6195	3.58	4.00	No
		93	6415	3.47	4.00	No
		97	6435	3.37	4.00	No
		105	6475	3.48	4.00	No
		113	6515	3.45	4.00	No
		117	6535	3.42	4.00	No
		149	6695	3.47	4.00	No
		181	6855	3.25	4.00	No
		185	6875	3.43	4.00	No
		209	6995	3.52	4.00	No
		233	7115	3.48	4.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.16 6G WIFI (Main Antenna) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	6.25	7.00	No
		49	6195	6.40	7.00	No
		93	6415	6.53	7.00	No
		97	6435	6.28	7.00	No
		105	6475	6.42	7.00	No
		113	6515	6.44	7.00	No
		117	6535	6.27	7.00	No
		149	6695	6.29	7.00	No
		181	6855	6.60	7.00	No
		185	6875	6.46	7.00	No
		189	6895	6.33	7.00	No
		209	6995	6.34	7.00	No
		229	7095	6.40	7.00	No
		233	7115	6.27	7.00	No
	802.11ax(HE20) (SU)	1	5955	6.42	7.00	No
		49	6195	6.25	7.00	No
		93	6415	6.27	7.00	No
		97	6435	6.58	7.00	No
		105	6475	6.48	7.00	No
		113	6515	6.55	7.00	No
		117	6535	6.26	7.00	No
		149	6695	6.36	7.00	No
		181	6855	6.37	7.00	No
		185	6875	6.38	7.00	No
		209	6995	6.48	7.00	No
		233	7115	6.43	7.00	No
	802.11ax(HE40) (SU)	3	5965	7.87	8.50	No
		51	6205	8.09	8.50	No
		91	6405	7.91	8.50	No
		99	6445	7.89	8.50	No
		107	6485	8.10	8.50	No
		115	6525	7.82	8.50	No
		123	6565	7.87	8.50	No
		147	6685	7.95	8.50	No
		179	6845	8.03	8.50	No
		187	6885	7.94	8.50	No
		195	6925	7.87	8.50	No
		211	7005	7.77	8.50	No
		227	7085	7.94	8.50	No

	802.11ax(HE80) (SU)	7	5985	11.48	12.00	No
		55	6225	11.36	12.00	No
		87	6385	11.45	12.00	No
		103	6465	11.50	12.00	No
		119	6545	11.32	12.00	No
		135	6625	11.53	12.00	No
		151	6705	11.58	12.00	No
		167	6785	11.60	12.00	No
		183	6865	11.42	12.00	No
		199	6945	11.43	12.00	No
		215	7025	11.37	12.00	No
	802.11ax(HE160) (SU)	15	6025	11.95	12.00	Yes
		47	6185	11.77	12.00	Yes
		79	6345	11.78	12.00	Yes
		111	6505	11.63	12.00	Yes
		143	6665	11.64	12.00	Yes
		175	6825	11.88	12.00	Yes
		207	6985	11.65	12.00	Yes
	802.11be(EHT20) (SU)	1	5955	6.40	7.00	No
		49	6195	6.40	7.00	No
		93	6415	6.32	7.00	No
		97	6435	6.42	7.00	No
		105	6475	6.35	7.00	No
		113	6515	6.57	7.00	No
		117	6535	6.54	7.00	No
		149	6695	6.59	7.00	No
		181	6855	6.37	7.00	No
		185	6875	6.39	7.00	No
		209	6995	6.38	7.00	No
		233	7115	6.37	7.00	No
	802.11be(EHT40) (SU)	3	5965	7.90	8.50	No
		51	6205	8.03	8.50	No
		91	6405	8.07	8.50	No
		99	6445	7.89	8.50	No
		107	6485	7.75	8.50	No
		115	6525	8.01	8.50	No
		123	6565	7.79	8.50	No
		147	6685	7.85	8.50	No
		179	6845	7.78	8.50	No
		187	6885	7.90	8.50	No
		195	6925	7.99	8.50	No
		211	7005	7.85	8.50	No
		227	7085	7.89	8.50	No

	802.11be(EHT80) (SU)	7	5985	11.38	12.00	No
		55	6225	11.60	12.00	No
		87	6385	11.54	12.00	No
		103	6465	11.48	12.00	No
		119	6545	11.47	12.00	No
		135	6625	11.47	12.00	No
		151	6705	11.51	12.00	No
		167	6785	11.39	12.00	No
		183	6865	11.31	12.00	No
		199	6945	11.38	12.00	No
		215	7025	11.51	12.00	No
	802.11be(EHT160) (SU)	15	6025	11.26	12.00	No
		47	6185	11.35	12.00	No
		79	6345	11.44	12.00	No
		111	6505	11.45	12.00	No
		143	6665	11.44	12.00	No
		175	6825	11.33	12.00	No
		207	6985	11.36	12.00	No
	802.11be(EHT20) (RU26)	1	5955	-1.56	-1.00	No
		49	6195	-1.57	-1.00	No
		93	6415	-1.63	-1.00	No
		97	6435	-1.71	-1.00	No
		105	6475	-1.44	-1.00	No
		113	6515	-1.53	-1.00	No
		117	6535	-1.63	-1.00	No
		149	6695	-1.48	-1.00	No
		181	6855	-1.49	-1.00	No
		185	6875	-1.51	-1.00	No
		209	6995	-1.43	-1.00	No
		233	7115	-1.58	-1.00	No
	802.11be(EHT20) (RU52)	1	5955	0.99	1.50	No
		49	6195	0.91	1.50	No
		93	6415	0.82	1.50	No
		97	6435	0.81	1.50	No
		105	6475	0.93	1.50	No
		113	6515	0.80	1.50	No
		117	6535	0.85	1.50	No
		149	6695	0.96	1.50	No
		181	6855	0.76	1.50	No
		185	6875	0.93	1.50	No
		209	6995	0.87	1.50	No
		233	7115	0.75	1.50	No
	802.11be(EHT20)	1	5955	3.41	4.00	No

	(RU106)	49	6195	3.36	4.00	No
		93	6415	3.42	4.00	No
		97	6435	3.59	4.00	No
		105	6475	3.37	4.00	No
		113	6515	3.45	4.00	No
		117	6535	3.32	4.00	No
		149	6695	3.51	4.00	No
		181	6855	3.43	4.00	No
		185	6875	3.50	4.00	No
		209	6995	3.57	4.00	No
		233	7115	3.57	4.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

8.1.17 6G WIFI (MIMO) (Tablet Mode)

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
6	802.11a	1	5955	3.98	4.50	No
		49	6195	3.99	4.50	No
		93	6415	3.75	4.50	No
		97	6435	4.09	4.50	No
		105	6475	3.87	4.50	No
		113	6515	3.76	4.50	No
		117	6535	3.94	4.50	No
		149	6695	3.96	4.50	No
		181	6855	4.08	4.50	No
		185	6875	4.05	4.50	No
		189	6895	4.10	4.50	No
		209	6995	4.00	4.50	No
		229	7095	4.02	4.50	No
		233	7115	3.86	4.50	No
	802.11ax(HE20) (SU)	1	5955	6.50	7.00	No
		49	6195	6.39	7.00	No
		93	6415	6.51	7.00	No
		97	6435	6.37	7.00	No
		105	6475	6.29	7.00	No
		113	6515	6.40	7.00	No
		117	6535	6.34	7.00	No
		149	6695	6.46	7.00	No
		181	6855	6.53	7.00	No
		185	6875	6.46	7.00	No
		209	6995	6.56	7.00	No
		233	7115	6.35	7.00	No
	802.11ax(HE40) (SU)	3	5965	9.33	10.00	No
		51	6205	9.42	10.00	No
		91	6405	9.51	10.00	No
		99	6445	9.42	10.00	No
		107	6485	9.34	10.00	No
		115	6525	9.35	10.00	No
		123	6565	9.38	10.00	No
		147	6685	9.25	10.00	No
		179	6845	9.39	10.00	No
		187	6885	9.50	10.00	No
		195	6925	9.59	10.00	No
		211	7005	9.49	10.00	No
		227	7085	9.38	10.00	No

	802.11ax(HE80) (SU)	7	5985	12.59	13.00	No
		55	6225	12.34	13.00	No
		87	6385	12.46	13.00	No
		103	6465	12.36	13.00	No
		119	6545	12.40	13.00	No
		135	6625	12.51	13.00	No
		151	6705	12.30	13.00	No
		167	6785	12.59	13.00	No
		183	6865	12.43	13.00	No
		199	6945	12.34	13.00	No
		215	7025	12.55	13.00	No
	802.11ax(HE160) (SU)	15	6025	13.29	14.00	No
		47	6185	13.54	14.00	No
		79	6345	13.58	14.00	No
		111	6505	13.32	14.00	No
		143	6665	13.42	14.00	No
		175	6825	13.52	14.00	No
		207	6985	13.25	14.00	No
	802.11be(EHT20) (SU)	1	5955	6.28	7.00	No
		49	6195	6.31	7.00	No
		93	6415	6.37	7.00	No
		97	6435	6.46	7.00	No
		105	6475	6.44	7.00	No
		113	6515	6.36	7.00	No
		117	6535	6.53	7.00	No
		149	6695	6.46	7.00	No
		181	6855	6.33	7.00	No
		185	6875	6.38	7.00	No
		209	6995	6.39	7.00	No
		233	7115	6.39	7.00	No
	802.11be(EHT40) (SU)	3	5965	9.27	10.00	No
		51	6205	9.26	10.00	No
		91	6405	9.40	10.00	No
		99	6445	9.52	10.00	No
		107	6485	9.38	10.00	No
		115	6525	9.50	10.00	No
		123	6565	9.48	10.00	No
		147	6685	9.32	10.00	No
		179	6845	9.31	10.00	No
		187	6885	9.25	10.00	No
		195	6925	9.53	10.00	No
		211	7005	9.39	10.00	No
		227	7085	9.57	10.00	No

	802.11be(EHT80) (SU)	7	5985	12.40	13.00	No
		55	6225	12.31	13.00	No
		87	6385	12.33	13.00	No
		103	6465	12.46	13.00	No
		119	6545	12.33	13.00	No
		135	6625	12.28	13.00	No
		151	6705	12.46	13.00	No
		167	6785	12.45	13.00	No
		183	6865	12.51	13.00	No
		199	6945	12.42	13.00	No
		215	7025	12.45	13.00	No
	802.11be(EHT160) (SU)	15	6025	13.55	14.00	No
		47	6185	13.49	14.00	No
		79	6345	13.60	14.00	No
		111	6505	13.49	14.00	No
		143	6665	13.27	14.00	No
		175	6825	13.38	14.00	No
		207	6985	13.56	14.00	No
	802.11be(EHT20) (RU26)	1	5955	-2.15	-1.50	No
		49	6195	-2.22	-1.50	No
		93	6415	-2.17	-1.50	No
		97	6435	-1.93	-1.50	No
		105	6475	-2.07	-1.50	No
		113	6515	-2.07	-1.50	No
		117	6535	-2.25	-1.50	No
		149	6695	-2.09	-1.50	No
		181	6855	-2.21	-1.50	No
		185	6875	-1.93	-1.50	No
		209	6995	-2.05	-1.50	No
		233	7115	-2.13	-1.50	No
	802.11be(EHT20) (RU52)	1	5955	0.46	1.00	No
		49	6195	0.40	1.00	No
		93	6415	0.47	1.00	No
		97	6435	0.26	1.00	No
		105	6475	0.29	1.00	No
		113	6515	0.52	1.00	No
		117	6535	0.29	1.00	No
		149	6695	0.29	1.00	No
		181	6855	0.37	1.00	No
		185	6875	0.58	1.00	No
		209	6995	0.50	1.00	No
		233	7115	0.51	1.00	No
	802.11be(EHT20)	1	5955	3.42	4.00	No

	(RU106)	49	6195	3.33	4.00	No
		93	6415	3.57	4.00	No
		97	6435	3.38	4.00	No
		105	6475	3.25	4.00	No
		113	6515	3.30	4.00	No
		117	6535	3.57	4.00	No
		149	6695	3.36	4.00	No
		181	6855	3.34	4.00	No
		185	6875	3.28	4.00	No
		209	6995	3.56	4.00	No
		233	7115	3.55	4.00	No

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative "Max. (main ant) + Max. (aux. ant) " method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, or the SPLSR value ≤ 0.04 the MIMO SAR test is not required.

8.2 Bluetooth

8.2.1 Bluetooth (Aux. Antenna)

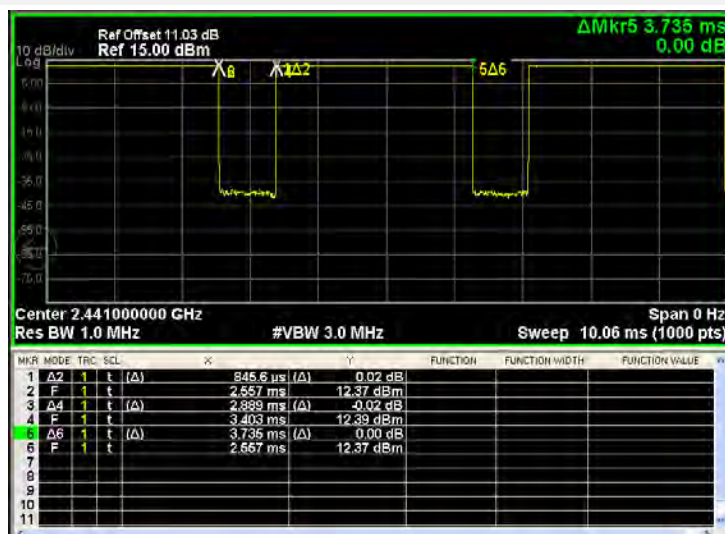
Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	9.94	9.98	9.99	9.83	9.79	9.85
Tune-Up Limit (dBm)	10.00	10.00	10.00	10.00	10.00	10.00
SAR Test Require	Yes	Yes	Yes	No	No	No
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	9.78	9.67	9.85	/	/	/
Tune-Up Limit (dBm)	10.00	10.00	10.00	/	/	/
SAR Test Require	No	No	No	/	/	/
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Average Power (dBm)	9.73	9.77	9.75	9.77	9.69	9.81
Tune-Up Limit (dBm)	10.00	10.00	10.00	10.00	10.00	10.00
SAR Test Require	No	No	No	No	No	No

Note: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

The Bluetooth duty cycle is 77.35% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

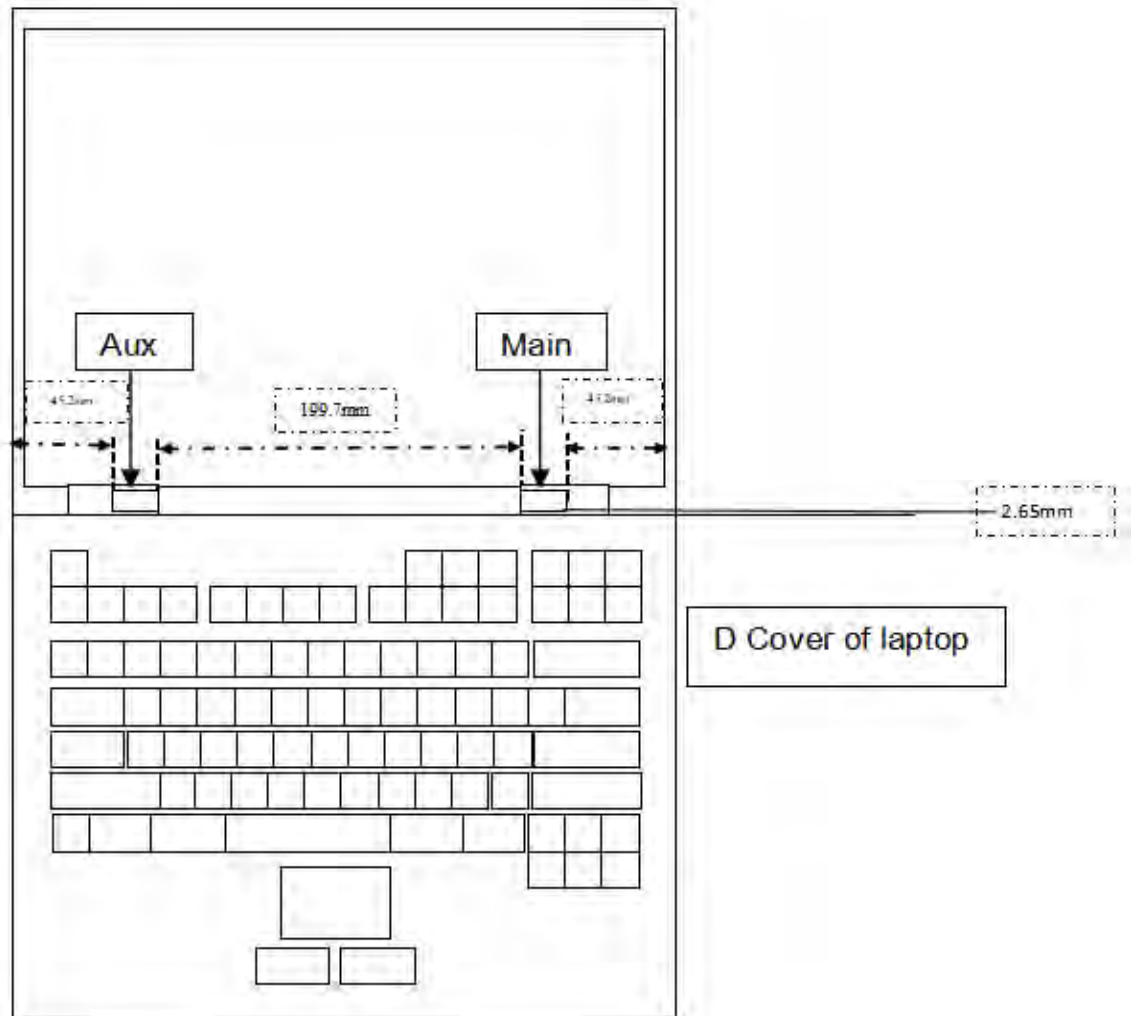
Duty Cycle

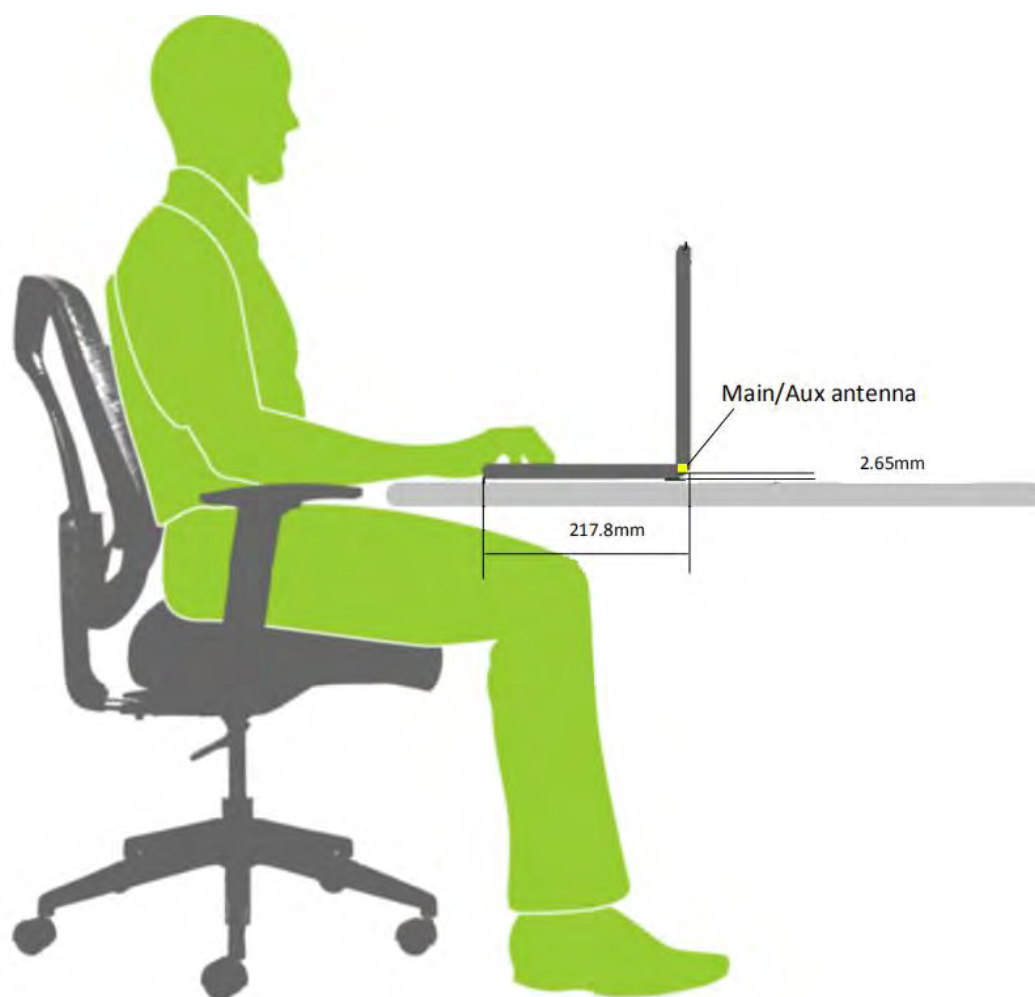
Bluetooth-GFSK



9 TEST EXCLUSION CONSIDERATION

9.1 Antenna Location Sketch





Antenna	Support Bands
Aux.	WLAN 2.4G/5G/6G/BT
Main	WLAN 2.4G/5G/6G

9.2 SAR Test Exclusion Consideration Table

According with RSS-102 Issue 6, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table.

Exemption Limits (mW)					
Frequency (MHz)	At separation distance of ≤ 5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤ 300	45	116	139	163	189
450	32	71	87	104	124
835	21	32	41	54	72
1900	6	10	18	33	57
2450	3	7	16	32	56
3500	2	6	15	29	50
5800	1	5	13	23	32
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	
≤ 300	216	246	280	319	
450	147	175	208	248	
835	96	129	172	228	
1900	92	138	194	257	
2450	89	128	170	209	
3500	72	94	114	134	
5800	41	54	74	102	

9.2.1 SAR Test Consideration

According RSS-102 issue6 used 25 mm between the device and the flat phantom to show compliance for bystanders.

This host is a notebook computer, under normal use the RF exposure scenarios are shown in the table below:

RF Exposure Position	RF Exposure Scenarios
Bottom Side	Body
Keyboard Side	Body
Left Edge	Body
Right Edge	Body
Top Edge	Body
Bottom Edge	Body

Aux. Antenna Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2480	2472	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	2.65						
	Max. Peak Power (dBm)	10.00	16.00	13.50	11.00	12.50	12.50	13.00
	Max. Peak Power (mW)	10.00	39.81	22.39	12.59	17.78	17.78	19.95
	Exclusion Threshold (mW)	3.00	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Keyboard Side	Distance to User (mm)	2.1						
	Max. Peak Power (dBm)	10.00	14.50	12.00	10.00	9.50	9.50	11.00
	Max. Peak Power (mW)	10.00	28.18	15.85	10.00	8.91	8.91	12.59
	Exclusion Threshold (mW)	3.00	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	45.2						
	Max. Peak Power (dBm)	10.00	14.50	12.00	10.00	9.50	9.50	11.00
	Max. Peak Power (mW)	10.00	28.18	15.85	10.00	8.91	8.91	12.59
	Exclusion Threshold (mW)	128.00	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No	No
Right Edge	Distance to User (mm)	244.9						
	Max. Peak Power (dBm)	10.00	14.50	12.00	10.00	9.50	9.50	11.00
	Max. Peak Power (mW)	10.00	28.18	15.85	10.00	8.91	8.91	12.59
	Exclusion Threshold (mW)	128.00	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No	No
Top Edge	Distance to User (mm)	217.8						
	Max. Peak Power (dBm)	10.00	14.50	12.00	10.00	9.50	9.50	11.00
	Max. Peak Power (mW)	10.00	28.18	15.85	10.00	8.91	8.91	12.59
	Exclusion Threshold (mW)	128.00	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No	No
Bottom Edge	Distance to User (mm)	0						
	Max. Peak Power (dBm)	10.00	14.50	12.00	10.00	9.50	9.50	11.00
	Max. Peak Power (mW)	10.00	28.18	15.85	10.00	8.91	8.91	12.59
	Exclusion Threshold (mW)	3.00	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Main Antenna Body RF exposure scenarios

Test Position Configurations	Mode	WLAN 2.4GHz	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4	U-NII-5/6/7/8
Calculated Frequency (MHz)		2472	5320	5710	5825	5925	6000
Bottom Side	Distance to User (mm)	2.65					
	Max. Peak Power (dBm)	16.00	13.50	13.00	13.50	13.50	13.00
	Max. Peak Power (mW)	39.81	22.39	19.95	22.39	22.39	19.95
	Exclusion Threshold (mW)	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Keyboard Side	Distance to User (mm)	2.1					
	Max. Peak Power (dBm)	14.00	12.00	10.00	10.00	10.00	12.00
	Max. Peak Power (mW)	25.12	15.85	10.00	10.00	10.00	15.85
	Exclusion Threshold (mW)	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes
Left Edge	Distance to User (mm)	244.9					
	Max. Peak Power (dBm)	14.00	12.00	10.00	10.00	10.00	12.00
	Max. Peak Power (mW)	25.12	15.85	10.00	10.00	10.00	15.85
	Exclusion Threshold (mW)	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No
Right Edge	Distance to User (mm)	45.2					
	Max. Peak Power (dBm)	14.00	12.00	10.00	10.00	10.00	12.00
	Max. Peak Power (mW)	25.12	15.85	10.00	10.00	10.00	15.85
	Exclusion Threshold (mW)	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No
Top Edge	Distance to User (mm)	217.8					
	Max. Peak Power (dBm)	14.00	12.00	10.00	10.00	10.00	12.00
	Max. Peak Power (mW)	25.12	15.85	10.00	10.00	10.00	15.85
	Exclusion Threshold (mW)	128.00	54.00	54.00	54.00	54.00	54.00
	SAR Test Required	No	No	No	No	No	No
Bottom Edge	Distance to User (mm)	0					
	Max. Peak Power (dBm)	14.00	12.00	10.00	10.00	10.00	12.00
	Max. Peak Power (mW)	25.12	15.85	10.00	10.00	10.00	15.85
	Exclusion Threshold (mW)	3.00	1.00	1.00	1.00	1.00	1.00
	SAR Test Required	Yes	Yes	Yes	Yes	Yes	Yes

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. According with RSS-102 Issue 6, SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm.
5. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
 - b. 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.
7. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 TEST RESULT

1. 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 WIFI 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 WIFI/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor.
2. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements
3. Per KDB 447498 D01, 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

10.1 Bluetooth

Mode	Antenna Manufact urer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
DH5	AWAN	Aux.	Laptop	Bottom Side	0	78	2480	-0.02	0.263	9.99	10.00	1.002	77.35	1.293	0.341	/
			Tablet	Keyboard Side	0	78	2480	0.09	0.274	9.99	10.00	1.002	77.35	1.293	0.355	/
				Bottom Edge	0	78	2480	0.15	0.303	9.99	10.00	1.002	77.35	1.293	0.393	/
	Luxshare -ICT	Aux.	Laptop	Bottom Side	0	78	2480	0.13	0.278	9.99	10.00	1.002	77.35	1.293	0.360	/
			Tablet	Keyboard Side	0	78	2480	0.16	0.285	9.99	10.00	1.002	77.35	1.293	0.369	/
				Bottom Edge	0	78	2480	-0.17	0.322	9.99	10.00	1.002	77.35	1.293	0.341	/
					0	0	2402	0.17	0.321	9.94	10.00	1.014	77.35	1.293	0.421	/
					0	39	2441	0.01	0.34	9.98	10.00	1.005	77.35	1.293	0.442	1#
			Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2WIFI 2.4GHz

Mode	Antenna Manufact urer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
802.11b	AWAN	Aux.	Laptop	Bottom Side	0	1	2412	0.01	0.214	15.81	16.00	1.045	100.00	1.000	0.224	/
			Tablet	Keyboard Side	0	1	2412	0.18	0.186	14.24	14.50	1.062	100.00	1.000	0.198	/
				Bottom Edge	0	1	2412	0.05	0.263	14.24	14.50	1.062	100.00	1.000	0.279	/
		Main	Laptop	Bottom Side	0	1	2412	-0.15	0.537	15.98	16.00	1.005	100.00	1.000	0.540	/
			Tablet	Keyboard Side	0	1	2412	0.13	0.277	13.96	14.00	1.009	100.00	1.000	0.279	/
				Bottom Edge	0	1	2412	-0.13	0.404	13.96	14.00	1.009	100.00	1.000	0.408	/
	Luxshare -ICT	Aux.	Laptop	Bottom Side	0	1	2412	-0.02	0.785	15.81	16.00	1.045	100.00	1.000	0.820	/
					0	6	2437	0.02	0.745	15.77	16.00	1.054	100.00	1.000	0.785	/
					0	11	2462	0.11	0.725	15.80	16.00	1.047	100.00	1.000	0.759	/
			Tablet	Keyboard Side	0	1	2412	-0.12	0.770	14.24	14.50	1.062	100.00	1.000	0.818	/
				Bottom Edge	0	1	2412	-0.17	0.806	14.24	14.50	1.062	100.00	1.000	0.856	/
					0	6	2437	-0.06	0.812	14.17	14.50	1.079	100.00	1.000	0.876	2#
					0	11	2462	0.14	0.765	13.95	14.50	1.135	100.00	1.000	0.868	/
		Main	Laptop	Bottom Side	0	1	2412	0.05	0.800	15.98	16.00	1.005	100.00	1.000	0.804	/
					0	6	2437	-0.14	0.832	15.58	16.00	1.102	100.00	1.000	0.917	3#
					0	11	2462	0.07	0.711	15.68	16.00	1.076	100.00	1.000	0.765	/
			Tablet	Keyboard Side	0	1	2412	0.19	0.423	13.96	14.00	1.009	100.00	1.000	0.427	/
				Bottom Edge	0	1	2412	0.08	0.622	13.96	14.00	1.009	100.00	1.000	0.628	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

10.3WIFI 5GHz

Fre. Band	Mode	Antenna Manufacturer	Antenna	Test State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																	
5.3G	802.11 ac80	AWAN	Aux.	Laptop	Bottom Side	0	58	5290	0.04	0.872	13.24	13.50	1.062	100.00	1.000	0.926	4#
				Tablet	Keyboard Side	0	58	5290	-0.09	0.133	11.86	12.00	1.033	100.00	1.000	0.137	/
					Bottom Edge	0	58	5290	-0.13	0.656	11.86	12.00	1.033	100.00	1.000	0.678	/
			Main	Laptop	Bottom Side	0	58	5290	-0.02	0.631	13.22	13.50	1.067	100.00	1.000	0.673	5#
				Tablet	Keyboard Side	0	58	5290	-0.10	0.633	11.96	12.00	1.009	100.00	1.000	0.639	/
					Bottom Edge	0	58	5290	-0.14	0.422	11.96	12.00	1.009	100.00	1.000	0.426	/
		Luxshare -ICT	Aux.	Laptop	Bottom Side	0	58	5290	0.04	0.236	13.24	13.50	1.062	100.00	1.000	0.251	/
				Tablet	Keyboard Side	0	58	5290	0.16	0.051	11.86	12.00	1.033	100.00	1.000	0.053	/
					Bottom Edge	0	58	5290	0.08	0.195	11.86	12.00	1.033	100.00	1.000	0.201	/
			Main	Laptop	Bottom Side	0	58	5290	0.13	0.623	13.22	13.50	1.067	100.00	1.000	0.665	/
				Tablet	Keyboard Side	0	58	5290	0.12	0.116	11.96	12.00	1.009	100.00	1.000	0.117	/
					Bottom Edge	0	58	5290	-0.07	0.388	11.96	12.00	1.009	100.00	1.000	0.391	/
5.6G	802.11 ac80	AWAN	Aux.	Laptop	Bottom Side	0	106	5530	-0.18	0.803	10.85	11.00	1.035	100.00	1.000	0.831	/
						0	138	5690	-0.02	0.826	10.64	11.00	1.086	100.00	1.000	0.897	6#
				Tablet	Keyboard Side	0	106	5530	-0.19	0.113	9.91	10.00	1.021	100.00	1.000	0.115	/
					Bottom Edge	0	106	5530	0.14	0.492	9.91	10.00	1.021	100.00	1.000	0.502	/
			Main	Laptop	Bottom Side	0	106	5530	-0.16	0.705	12.98	13.00	1.005	100.00	1.000	0.709	/
						0	138	5690	-0.02	0.752	12.95	13.00	1.012	100.00	1.000	0.761	7#
				Tablet	Keyboard Side	0	106	5530	-0.16	0.112	9.71	10.00	1.069	100.00	1.000	0.120	/
				Tablet	Bottom Edge	0	106	5530	0.06	0.266	9.71	10.00	1.069	100.00	1.000	0.284	/
		Luxshare -ICT	Aux.	Laptop	Bottom Side	0	106	5530	-0.07	0.255	10.85	11.00	1.035	100.00	1.000	0.264	/
				Tablet	Keyboard Side	0	106	5530	-0.09	0.055	9.91	10.00	1.021	100.00	1.000	0.056	/
					Bottom Edge	0	106	5530	-0.18	0.234	9.91	10.00	1.021	100.00	1.000	0.239	/
			Main	Laptop	Bottom Side	0	106	5530	0.15	0.322	12.98	13.00	1.005	100.00	1.000	0.324	/
				Tablet	Keyboard Side	0	106	5530	-0.17	0.065	9.71	10.00	1.069	100.00	1.000	0.069	/
					Bottom Edge	0	106	5530	0.15	0.189	9.71	10.00	1.069	100.00	1.000	0.202	/
5.8G	802.11 ac80	AWAN	Aux.	Laptop	Bottom Side	0	155	5775	0.00	1.05	12.16	12.50	1.081	100.00	1.000	1.135	8#
				Tablet	Keyboard Side	0	155	5775	0.00	0.106	9.37	9.50	1.030	100.00	1.000	0.109	/
					Bottom Edge	0	155	5775	-0.08	0.892	9.37	9.50	1.030	100.00	1.000	0.919	/
			Main	Laptop	Bottom Side	0	155	5775	-0.06	0.992	12.98	13.50	1.127	100.00	1.000	1.118	9#
				Tablet	Keyboard Side	0	155	5775	-0.17	0.041	9.89	10.00	1.026	100.00	1.000	0.042	/
					Bottom Edge	0	155	5775	0.16	0.415	9.89	10.00	1.026	100.00	1.000	0.426	/
		Luxshare	Aux.	Laptop	Bottom Side	0	155	5775	-0.13	0.855	12.16	12.50	1.081	100.00	1.000	0.924	/

		-ICT		Tablet	Keyboard Side	0	155	5775	-0.14	0.045	9.37	9.50	1.030	100.00	1.000	0.046	/	
					Bottom Edge	0	155	5775	0.12	0.355	9.37	9.50	1.030	100.00	1.000	0.366	/	
			Main	Laptop	Bottom Side	0	155	5775	0.02	0.863	12.98	13.50	1.127	100.00	1.000	0.973	/	
				Tablet	Keyboard Side	0	155	5775	0.14	0.035	9.89	10.00	1.026	100.00	1.000	0.036	/	
					Bottom Edge	0	155	5775	-0.10	0.348	9.89	10.00	1.026	100.00	1.000	0.357	/	
5.9G	802.11 ac160	AWAN	Aux.	Laptop	Bottom Side	0	163	5815	0.00	0.985	12.16	12.50	1.081	100.00	1.000	1.065	10#	
				Tablet	Keyboard Side	0	163	5815	-0.11	0.135	9.43	9.50	1.016	100.00	1.000	0.137	/	
					Bottom Edge	0	163	5815	0.15	0.921	9.43	9.50	1.016	100.00	1.000	0.936	/	
			Main	Laptop	Bottom Side	0	163	5815	-0.05	0.967	13.21	13.50	1.069	100.00	1.000	1.034	11#	
				Tablet	Keyboard Side	0	163	5815	-0.15	0.153	9.51	10.00	1.119	100.00	1.000	0.171	/	
					Bottom Edge	0	163	5815	0.06	0.822	9.51	10.00	1.119	100.00	1.000	0.920	/	
		Luxshare	Aux.	Laptop	Bottom Side	0	163	5815	0.17	0.709	12.16	12.50	1.081	100.00	1.000	0.766	/	
				Tablet	Keyboard Side	0	163	5815	-0.08	0.065	9.43	9.50	1.016	100.00	1.000	0.066	/	
					Bottom Edge	0	163	5815	-0.09	0.592	9.43	9.50	1.016	100.00	1.000	0.601	/	
			Main	Laptop	Bottom Side	0	163	5815	-0.01	0.867	13.21	13.50	1.069	100.00	1.000	0.927	/	
				Tablet	Keyboard Side	0	163	5815	0.00	0.131	9.51	10.00	1.119	100.00	1.000	0.147	/	
					Bottom Edge	0	163	5815	0.06	0.756	9.51	10.00	1.119	100.00	1.000	0.846	/	
	Note: Refer to ANNEX C for the detailed test data for each test configuration.																	

10.4WIFI 6GHz

Mode	Antenna Manufacturer	Antenna	Test Position	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Measured APD 4cm ² [W/m ²]	Scaled APD [W/m ²]	Meas. No.
Body																		
802.11 ax160	AWAN	Aux.	Laptop	Bottom Side	0	15	6025	-0.12	1.05	12.92	13.00	1.019	99.50	1.005	1.075	5.79	5.929	12#
				Bottom Side	0	47	6185	0.18	0.811	12.46	13.00	1.132	99.50	1.005	0.923	4.420	5.028	/
				Bottom Side	0	79	6345	0.04	0.623	12.91	13.00	1.021	99.50	1.005	0.639	3.430	3.52	/
				Bottom Side	0	111	6505	0.02	0.721	12.64	13.00	1.086	99.50	1.005	0.787	4.010	4.377	/
				Bottom Side	0	143	6665	0.04	0.734	12.50	13.00	1.122	99.50	1.005	0.828	4.060	4.578	/
				Bottom Side	0	175	6825	-0.10	0.323	12.91	13.00	1.021	99.50	1.005	0.331	1.880	1.929	/
				Bottom Side	0	207	6985	0.01	0.441	12.61	13.00	1.094	99.50	1.005	0.485	2.530	2.782	/
		Tablet		Keyboard Side	0	15	6025	-0.10	0.065	10.83	11.00	1.040	99.50	1.005	0.068	0.390	0.408	/
				Bottom Edge	0	15	6025	0.02	0.756	10.83	11.00	1.040	99.50	1.005	0.790	4.230	4.421	/
	Main	Laptop		Bottom Side	0	15	6025	0.19	0.611	12.87	13.00	1.030	99.50	1.005	0.632	3.410	3.53	/
				Keyboard Side	0	15	6025	-0.16	0.095	11.95	12.00	1.012	99.50	1.005	0.097	0.575	0.585	/
				Bottom Edge	0	15	6025	-0.03	0.722	11.95	12.00	1.012	99.50	1.005	0.734	4.110	4.18	/
	Luxshare-ICT	Aux.	Laptop	Bottom Side	0	15	6025	-0.01	0.906	12.92	13.00	1.019	99.50	1.005	0.928	5.210	5.336	/
				Keyboard Side	0	15	6025	0.05	0.522	10.83	11.00	1.040	99.50	1.005	0.546	3.060	3.198	/
				Bottom Edge	0	15	6025	-0.02	0.677	10.83	11.00	1.040	99.50	1.005	0.708	4.010	4.191	/
		Main	Tablet	Bottom Side	0	15	6025	0.17	0.823	12.87	13.00	1.030	99.50	1.005	0.852	4.850	5.02	/
				Keyboard Side	0	15	6025	-0.18	0.134	11.95	12.00	1.012	99.50	1.005	0.136	0.822	0.836	/
				Bottom Edge	0	15	6025	-0.06	0.933	11.95	12.00	1.012	99.50	1.005	0.949	5.560	5.655	/
				Bottom Edge	0	47	6185	-0.02	1.02	11.77	12.00	1.054	99.50	1.005	1.080	6.030	6.387	/
				Bottom Edge	0	79	6345	0.16	1.1	11.78	12.00	1.052	99.50	1.005	1.163	6.270	6.629	13#
				Bottom Edge	0	111	6505	-0.19	0.566	11.63	12.00	1.089	99.50	1.005	0.619	3.410	3.732	/
				Bottom Edge	0	143	6665	0.15	0.534	11.64	12.00	1.086	99.50	1.005	0.583	3.160	3.449	/
				Bottom Edge	0	175	6825	-0.10	0.571	11.88	12.00	1.028	99.50	1.005	0.590	3.420	3.533	/
				Bottom Edge	0	207	6985	0.16	0.633	11.65	12.00	1.084	99.50	1.005	0.690	3.83	4.172	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

11 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR). According to KDB 447498 D01, simultaneous transmission:

- SPLSR = $(SAR_1 + SAR_2)^{1.5} / R_i$ (min. separation distance, mm), and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.
SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition as the first.
- If $SPLSR \leq 0.02$, simultaneously transmission SAR measurement is not necessary.
- Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

According to SPR-APD Issue 1, For transmitters operating above 6000 MHz, A conservative way to assess compliance with the RF exposure limits is to evaluate the corresponding total exposure ratio (TER), which can be expressed as:

$$TER_{SAR-PD} = \sum_{n=1}^N ER_{SAR,n} + \sum_{m=1}^M ER_{PD,m} + \sum_{k=1}^K ER_{EH-SAR,k}$$

It is necessary to perform an assessment against the PD (basic restriction up to 10 GHz and reference levels beyond). The exposure ratio for the m -th transmitter is given by:

$$ER_{PD,m} = \begin{cases} \max \left[\frac{SAR_m}{SAR_{limit}}, \frac{APD_m}{APD_{limit}} \right], & 5925 \text{ MHz} < f_m \leq 10 \text{ GHz} \\ \frac{psPD_m}{psPD_{limit,m}}, & 10 \text{ GHz} < f_m \leq 30 \text{ GHz} \\ \max \left[\frac{psPD_m}{psPD_{limit,m}}, \frac{pPD_m}{pPD_{limit,m}} \right], & f_m > 30 \text{ GHz} \end{cases}$$

Compliance with the SAR-PD based RF exposure limits is achieved if $TER_{SAR-PD} \leq 1$. In the context of SPR-APD, ISED accepts the FCC's method based on the SAR to peak location separation ratio (SPLSR) as a method to determine test reduction for simultaneous transmission when $TER_{SAR-PD} > 1$.

$$SPLSR = \frac{\left(\max \left[\frac{SAR_1}{SAR_{limit}}, \frac{APD_1}{APD_{limit}} \right] + \max \left[\frac{SAR_2}{SAR_{limit}}, \frac{APD_2}{APD_{limit}} \right] \right)^{1.5}}{Distance}$$

Simultaneous transmission testing may be exempted when the transmitters are considered to be spatially separated:

- SPLSR ≤ 0.02 for head, neck and trunk exposure conditions
- SPLSR ≤ 0.013 for limb exposure conditions

11.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Body
1	Bluetooth + WLAN 2.4GHz (Antenna Main)	Yes
2	Bluetooth + WLAN 5GHz (Antenna Auxiliary)	Yes
3	Bluetooth + WLAN 6GHz (Antenna Auxiliary)	Yes
4	Bluetooth + WLAN 5GHz (Antenna Main)	Yes
5	Bluetooth + + WLAN 6GHz (Antenna Main)	Yes
6	WLAN 2.4GHz (Antenna Main) + WLAN 2.4GHz (Antenna Auxiliary)	Yes
7	WLAN 2.4GHz (Antenna Main) + WLAN 5GHz (Antenna Auxiliary)	Yes
8	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
9	WLAN 2.4GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes
10	WLAN 2.4GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
11	WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
12	WLAN 5GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
13	WLAN 5GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes
14	WLAN 5GHz (Antenna Main) + WLAN 6GHz (Antenna Auxiliary)	Yes
15	Bluetooth + WLAN 5GHz (Antenna Auxiliary) + WLAN 5GHz (Antenna Main)	Yes
16	Bluetooth + WLAN 6GHz (Antenna Auxiliary) + WLAN 6GHz (Antenna Main)	Yes

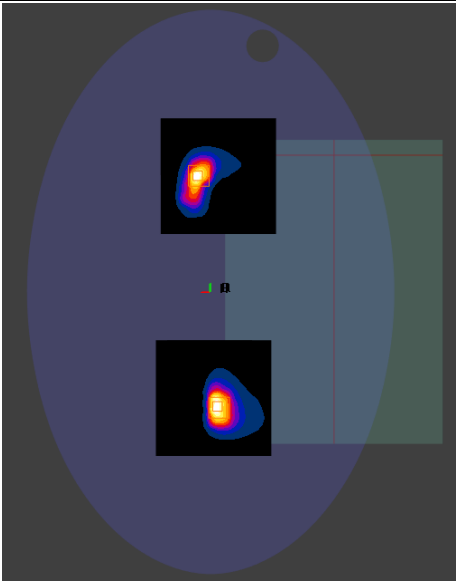
Note:

1. The EUT supports the Antenna Auxiliary with TX/RX diversity function for WLAN and Bluetooth, the Antenna Main with TX/RX diversity function for WLAN.
2. WLAN 2.4GHz and Bluetooth will not be transmitting from the Antenna Auxiliary at same time.

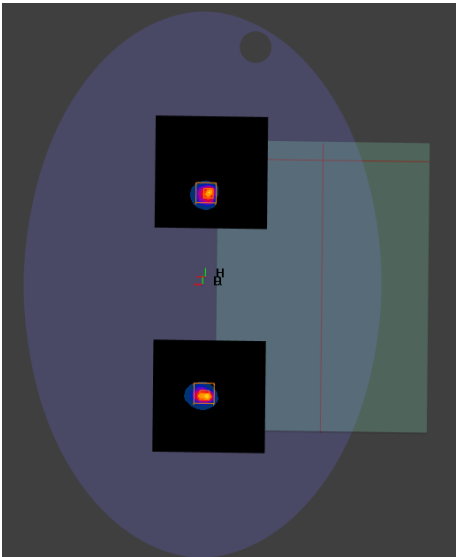
11.2Body Simultaneous Transmission SAR Evaluation

State	Position	Stand alone SAR						
		1	2	3	4	5	6	7
		Bluetooth	WLAN 2.4GHz (Antenna Auxiliary)	WLAN 2.4GHz (Antenna Main)	MAX. WLAN 5GHz (Antenna Auxiliary)	MAX. WLAN 5GHz (Antenna Main)	WLAN 6GHz (Antenna Auxiliary)	WLAN 6GHz (Antenna Main)
Laptop	Bottom Side	0.360	0.820	0.917	1.135	1.118	1.075	0.852
Tablet	Keyboard Side	0.369	0.818	0.427	0.137	0.639	0.546	0.136
Tablet	Bottom Edge	0.442	0.876	0.628	0.936	0.920	0.790	1.163
SUM SAR								
Sum SAR (1+3)	Sum SAR (2+3)	Sum SAR (2+5)	Sum SAR (3+4)	Sum SAR (2+7)	Sum SAR (3+6)	Sum SAR (1+4+5)	Sum SAR (1+6+7)	
1.287	1.737	1.938	2.052	1.672	1.992	2.613	2.287	
0.807	1.245	1.457	0.564	0.954	0.973	1.145	1.051	
1.070	1.504	1.796	1.564	2.039	1.418	2.298	2.395	
SPLSR								
Sum SAR (1+3)	Sum SAR (2+3)	Sum SAR (2+5)	Sum SAR (3+4)	Sum SAR (2+7)	Sum SAR (3+6)	Sum SAR (1+4+5)	Sum SAR (1+6+7)	
/	0.01(1#)	0.01(2#)	0.01(4#)	0.01(5#)	0.01(#)	0.02(8#)	0.02(10#)	
/	/	/	/	/	/	/	/	
/	/	0.01(3#)	/	0.01(6#)	/	0.01(9#)	0.02(11#)	
Note:								
1: The highest Summed 1g SAR is 2.623 W/Kg > 1.6 W/kg, so Simultaneous Transmission SAR test exclusion is determined by the SAR to peak location separation ratio.								
2: The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst SPLSR simultaneous transmission combinations is shown in this report.								
3: The SPLSR is < 0.04, so Simultaneous Transmission SAR test is not required.								

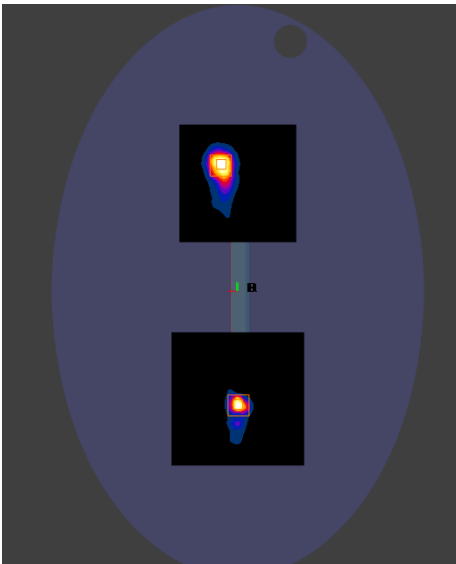
Case 1#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux	Bottom Side	0.820	-0.016	0.132	-0.174016	254.7	1.74	0.01	Not required
2	WLAN2.4G Ant.Main		0.917	0.003	-0.122	-0.174058				



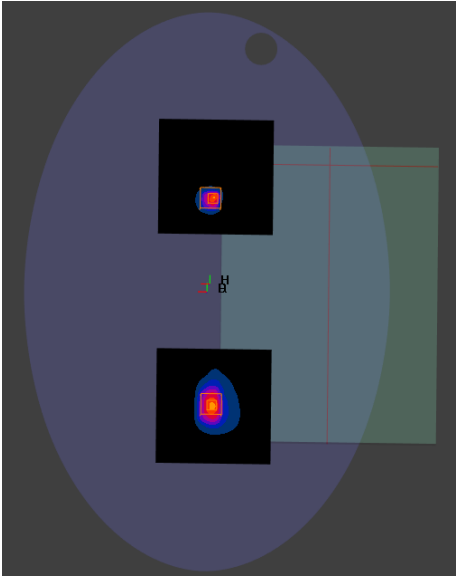
Case 2#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux	Bottom Side	0.820	-0.016	0.132	-0.174016	253.1	1.94	0.01	Not required
2	WLAN 5G Ant.Main		1.118	0.008	-0.12	-0.174015				



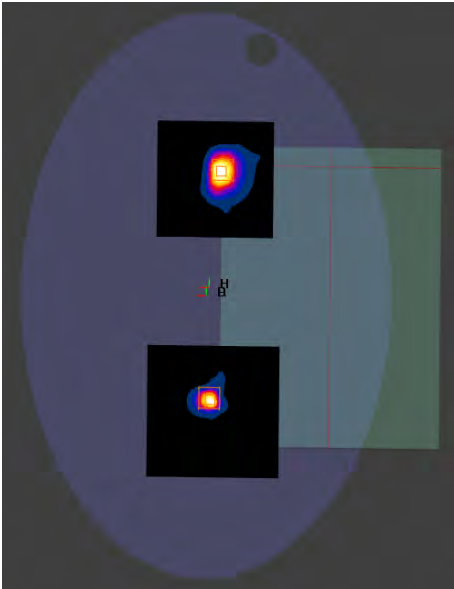
Case 3#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux	Bottom Edge	0.876	-0.012	0.134	-0.174052	252.8	1.80	0.01	Not required
2	WLAN 5G Ant.Main		0.920	8.7423E-11	-0.1185	-0.174059				



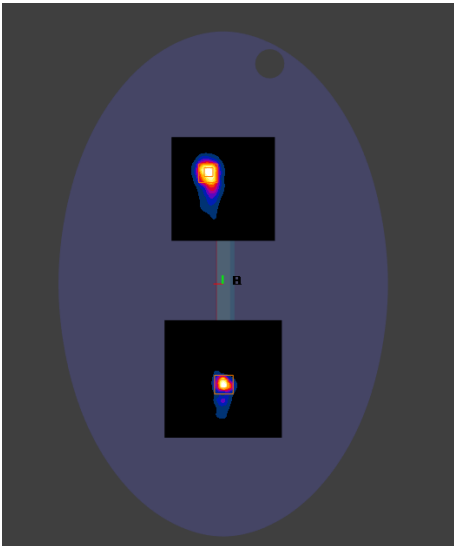
Case 4#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN5G Ant.Aux	Bottom Side	1.150	0.008	0.11	-0.17402	232.1	2.07	0.01	Not required
2	WLAN2.4G Ant.Main		0.917	0.003	-0.122	-0.174058				



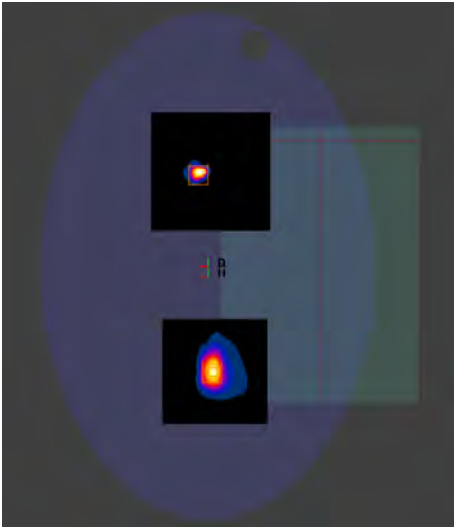
Case 5#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux	Bottom Side	0.820	-0.016	0.132	-0.174016	244.7	1.67	0.01	Not required
2	WLAN6G Ant.Main		0.852	0.008	-0.1115	-0.174016				



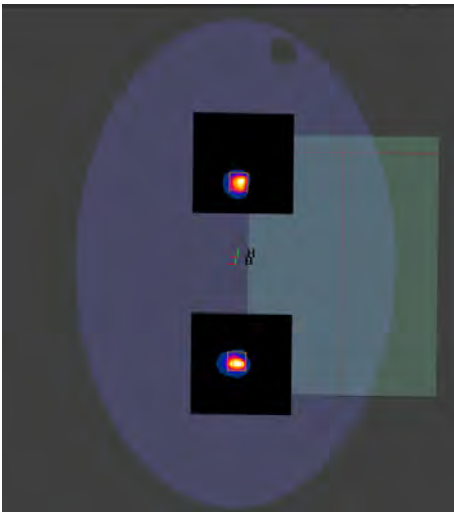
Case 6#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN2.4G Ant.Aux	Bottom Edge	0.876	-0.012	0.134	-0.174052	252.8	2.04	0.01	Not required
2	WLAN6G Ant.Main		1.163	8.7423E-11	-0.1185	-0.174059				



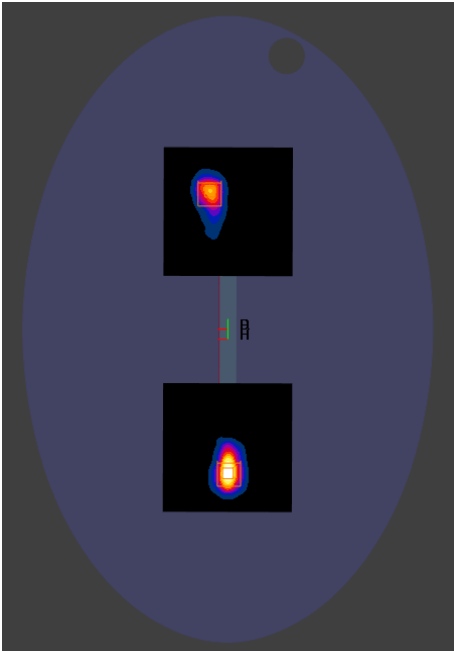
Case 7#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	WLAN6G Ant.Aux	Bottom Side	1.075	-0.0055	0.11	-0.174061	232.2	1.99	0.01	Not required
2	WLAN2.4G Ant.Main		0.917	0.003	-0.122	-0.174058				



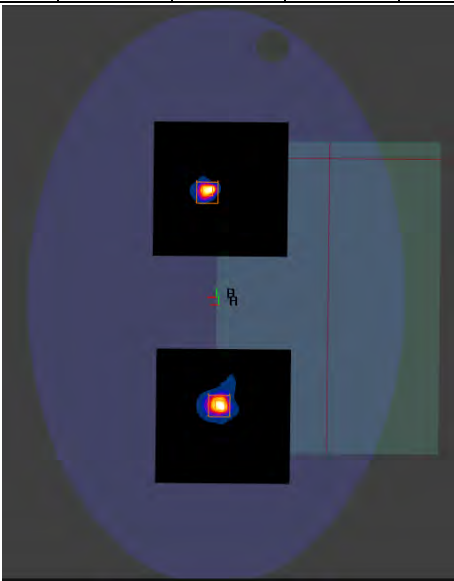
Case 8#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Bluetooth+WLAN5G Ant.Aux	Bottom Side	1.495	0.008	0.11	-0.17402	230.0	2.61	0.02	Not required
2	WLAN 5G Ant.Main		1.118	0.008	-0.12	-0.174015				



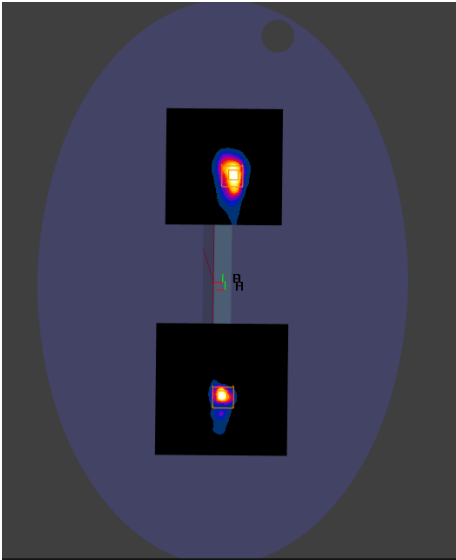
Case 9#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Bluetooth+WLAN5G Ant.Aux	Bottom Edge	1.378	-0.011	0.131	-0.173042	249.7	2.30	0.01	Not required
2	WLAN 5G Ant.Main		0.920	8.7423E-11	-0.1185	-0.174059				



Case 10#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Bluetooth+WLAN6 Ant.Aux	Bottom Side	1.435	-0.0055	0.11	-0.174061	221.9	2.29	0.02	Not required
2	WLAN 6G Ant.Main		0.852	0.008	-0.1115	-0.174016				



Case 11#	Band	Position	SAR (W/kg)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Plot No				X	Y	Z				
1	Bluetooth+WLAN6 Ant.Aux	Bottom Edge	1.232	0.012	0.108	-0.174021	226.8	2.40	0.02	Not required
2	WLAN 6G Ant.Main		1.163	8.7423E-11	-0.1185	-0.174059				



12 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7893	2024/09/05	2025/09/04
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Network Analyzer	Agilent	E5071C	MY46103472	2024/09/11	2025/09/10
Thermometer	Elitech	RC-4HC	EF7216002985	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF720B004811	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2024.12.12	Head	2402	21.6	1.75	39.86	1.76	39.29	-0.57	1.45
2024.12.12	Head	2412	21.6	1.76	39.77	1.77	39.27	-0.57	1.27
2024.12.12	Head	2437	21.6	1.78	39.58	1.79	39.22	-0.56	0.92
2024.12.12	Head	2441	21.6	1.79	39.59	1.79	39.22	0.00	0.94
2024.12.12	Head	2450	21.6	1.80	39.50	1.80	39.20	0.00	0.77
2024.12.12	Head	2462	21.6	1.81	39.43	1.81	39.19	0.00	0.61
2024.12.12	Head	2480	21.6	1.84	39.28	1.83	39.16	0.55	0.31
2024.12.13	Head	5250	21.4	4.70	35.75	4.71	35.93	-0.21	-0.50
2024.12.13	Head	5290	21.4	4.78	35.22	4.75	35.88	0.63	-1.84
2024.12.14	Head	5530	21.3	4.95	36.00	4.99	35.61	-0.80	1.10
2024.12.14	Head	5570	21.3	4.98	35.78	5.03	35.57	-0.99	0.59
2024.12.14	Head	5600	21.3	5.06	35.22	5.07	35.53	-0.20	-0.87
2024.12.14	Head	5690	21.3	5.19	34.14	5.16	35.42	0.58	-3.61
2024.12.15	Head	5750	21.3	5.18	35.65	5.22	35.36	-0.77	0.82
2024.12.15	Head	5775	21.3	5.22	35.33	5.24	35.33	-0.38	0.00
2024.12.15	Head	5815	21.3	5.31	34.74	5.29	35.28	0.38	-1.53
2024.12.16	Head	6025	21.4	5.37	35.89	5.51	35.04	-2.54	2.43
2024.12.16	Head	6185	21.4	5.52	35.46	5.60	34.85	-1.43	1.75
2024.12.16	Head	6345	21.4	5.87	35.03	5.88	34.65	-0.17	1.10
2024.12.16	Head	6505	21.4	6.15	34.56	6.08	34.45	1.15	0.32
2024.12.16	Head	6665	21.4	6.38	34.19	6.27	34.27	1.75	-0.23
2024.12.16	Head	6825	21.4	6.63	33.80	6.45	34.08	2.79	-0.82
2024.12.16	Head	6985	21.4	6.89	33.38	6.63	33.90	3.92	-1.53

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %.

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2024.12.12	Head	2450	100	5.410	54.10	52.60	2.85
2024.12.13	Head	5250	100	7.630	76.30	77.70	-1.80
2024.12.14	Head	5600	100	8.250	82.50	81.30	1.48
2024.12.15	Head	5750	100	7.810	78.10	77.60	0.64
2024.12.16	Head	6500	100	29.500	295.00	299.00	-1.34

Note: The tolerance limit of System validation $\pm 10\%$.

Comparing to the original APD value provided by SPEAG, the validation data should be within its specification of 10 % (for 4 cm²).

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured APD (cm ²)	Normalized APD (cm ²)	Dipole APD (cm ²)	Tolerance (%)
2024.12.16	Head	6500	100	132.00	1320.00	1340.00	-1.49

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data (2450MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	2450.0, 2450	6.98	1.80	39.5	22.6	21.6

Hardware Setup

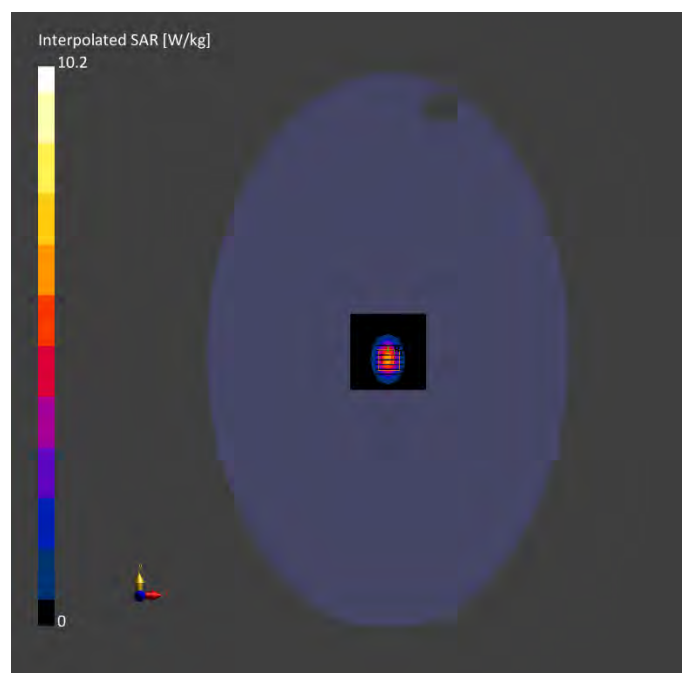
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 12	2024-12-	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1711, 2024-03- 18	

Scan Setup

		Area Scan	Zoom Scan
Grid	Extents	80.0 x 80.0	30.0 x 30.0 x
	[mm]		30.0
Grid	Steps	8.0 x 10.0	5.0 x 5.0 x 1.5
	[mm]		
Sensor		3.0	1.4
Surface [mm]			
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.5
MAIA		N/A	N/A
Surface		All points	All points
Detection			
Scan Method		Measured	Measured

Measurement Results

		Area Scan	Zoom Scan
Date		2024-12-12	2024-12-12
psSAR1g		5.39	5.41
[W/kg]			
psSAR10g		2.36	2.45
[W/kg]			
Power Drift		0.12	-0.03
[dB]			
Power Scaling		Disabled	Disabled
Scaling Factor			
[dB]			
TSL	No correction		No correction
Correction			
M2/M1 [%]			79.8
Dist 3dB Peak			8.2
[mm]			



System Performance Check Data (5250MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		D5GH z	CW, 0--	5250.0, 25	5.44	4.70	35.7	22.5	21.4

Hardware Setup

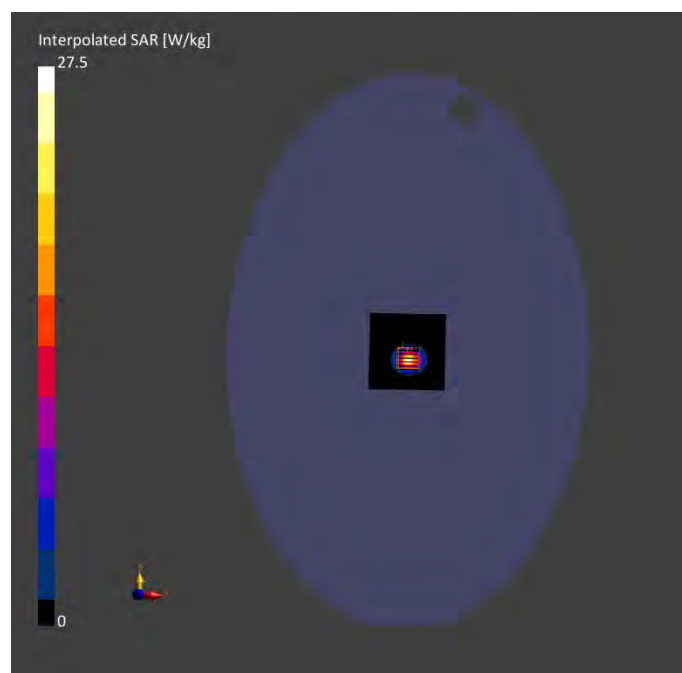
Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 13	2024-12-	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1711, 2024-03- 18	

Scan Setup

		Area Scan	Zoom Scan
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x
	[mm]		22.0
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4
	[mm]		
Sensor		3.0	1.4
Surface [mm]			
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface		All points	All points
Detection			
Scan Method		Measured	Measured

Measurement Results

		Area Scan	Zoom Scan
Date		2024-12-13	2024-12-13
psSAR1g		6.82	7.63
[W/kg]			
psSAR10g		2.03	2.17
[W/kg]			
Power	Drift	0.02	0.11
[dB]			
Power Scaling		Disabled	Disabled
Scaling Factor			
[dB]			
TSL	No correction		No correction
Correction			
M2/M1 [%]			64.6
Dist 3dB Peak			7.2
[mm]			



System Performance Check Data (5600MHz)

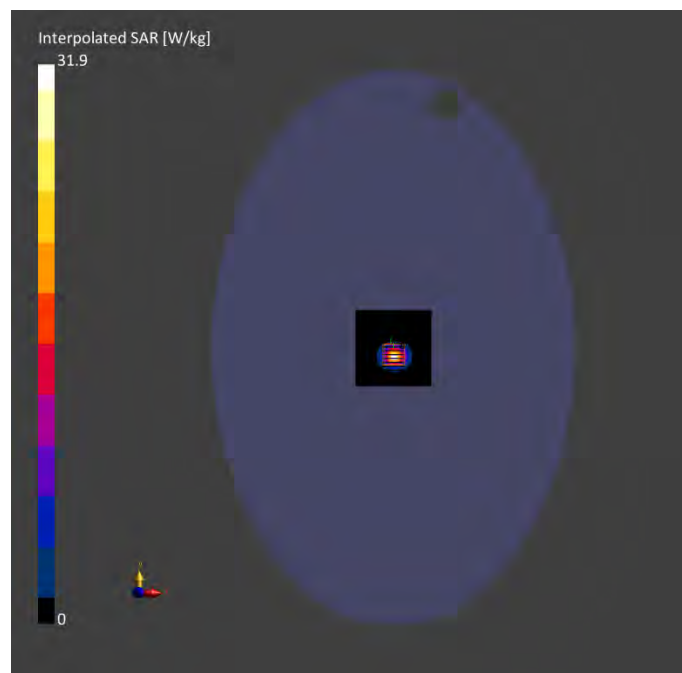
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5600.0, 5600	4.91	5.06	35.2	22.3	21.3

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 14	2024-12-	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1711, 2024-03- 18	

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2024-12-14	2024-12-14
	[mm]		22.0	psSAR1g	8.07	8.25
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.26	2.38
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.03	0.02
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		62.9
				Dist 3dB Peak		7.5
				[mm]		



System Performance Check Data (5750MHz)

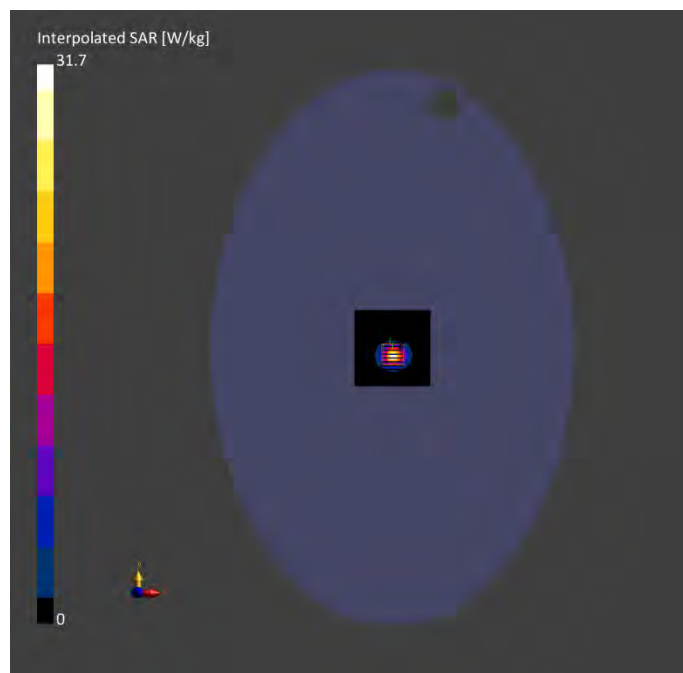
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	5750.0, 5750	4.98	5.18	35.7	22.2	21.3

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 15	2024-12-	EX3DV4 - SN7893, 2024-09- 05		DAE4 Sn1711, 2024-03- 18	

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	80.0 x 80.0	22.0 x 22.0 x	Date	2024-12-15	2024-12-15
	[mm]		22.0	psSAR1g	7.75	7.81
Grid	Steps	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
	[mm]			psSAR10g	2.06	2.19
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	-0.06	0.11
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.4	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		62.3
				Dist 3dB Peak		8.6
				[mm]		



System Performance Check Data (6500MHz)

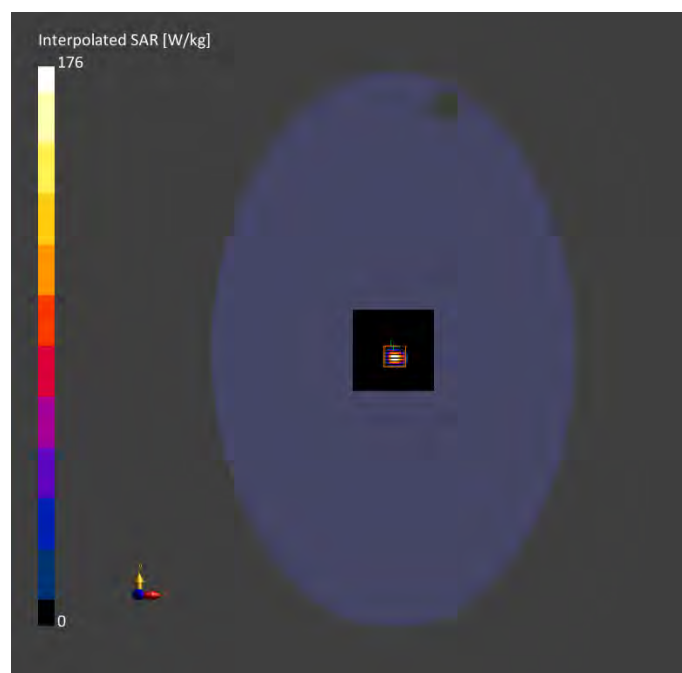
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL		Valida tion band	CW, 0--	6500.0, 6500	5.11	5.99	34.9	22.2	21.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 16	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	85.0 x 85.0	22.0 x 22.0 x	Date	2024-12-16	2024-12-16
	[mm]		22.0	psSAR1g	29.4	29.5
Grid	Steps	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
	[mm]			psSAR10g	5.18	5.38
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				APD 4cm ²		132
Graded Grid		Yes	Yes	[W/m ²]		
Grading Ratio		1.5	1.4	Power Drift	-0.15	0.08
MAIA		N/A	N/A	[dB]		
Surface		All points	All points	Power Scaling	Disabled	Disabled
Detection				Scaling Factor		
Scan Method		Measured	Measured	[dB]		
				TSL	No correction	No correction
				Correction		
				M2/M1 [%]		49.7
				Dist 3dB Peak		4.6
				[mm]		



ANNEX C TEST DATA

Meas.1 Body Plane with Bottom Edge 0mm on 39 Channel in Bluetooth mode with Antenna Auxiliary

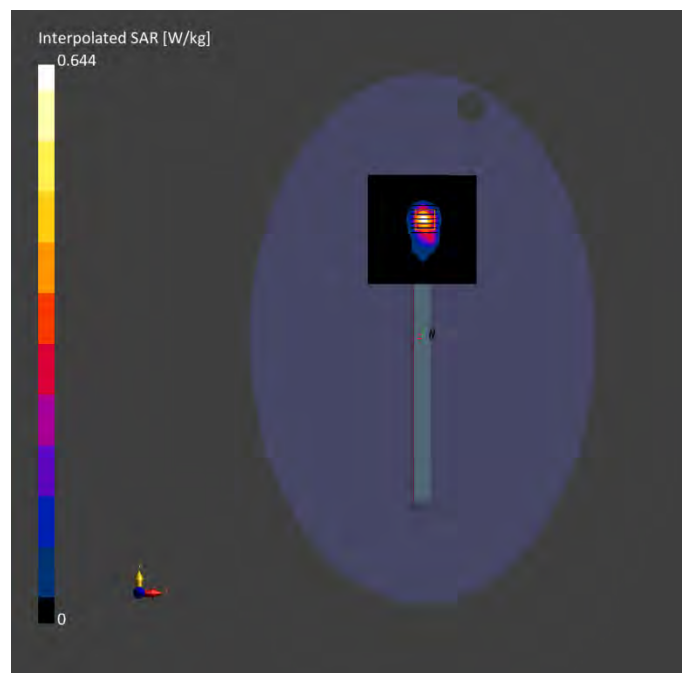
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	ISM 2.4 GHz Band	Bluetooth, 10032- CAA	2441.0, 39	6.98	1.79	39.6	22.6	21.6

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2024-12-12	EX3DV4 - SN7893,	2024-09-05	DAE4 Sn1711,	2024-03-18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x 30.0	Date	2024-12-12	2024-12-12
				psSAR1g	0.313	0.340
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
				psSAR10g	0.138	0.152
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.01	0.01
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		51.0
				Dist 3dB Peak		8.9
				[mm]		



Meas.2 Body Plane with Bottom Edge 0mm on 6 Channel in IEEE802.11b mode with Antenna Auxiliary

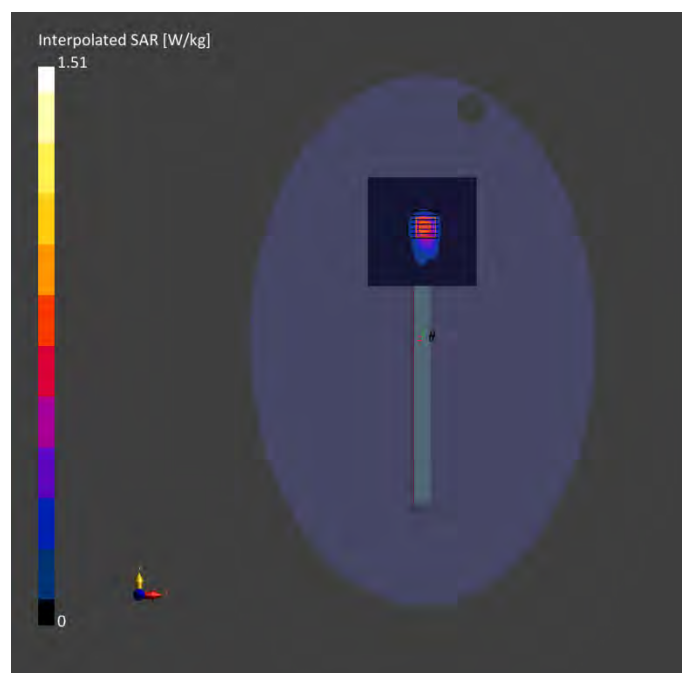
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	WLA N 2.4G Hz	WLAN, 10415- AAA	2437.0, 6	6.98	1.78	39.6	22.6	21.6

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2024-12- 12	EX3DV4 - SN7893,	2024-09- 05	DAE4 Sn1711,	2024-03- 18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date	2024-12-12	2024-12-12
	[mm]		30.0	psSAR1g	0.703	0.812
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
	[mm]			psSAR10g	0.336	0.368
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.04	-0.06
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		All points	All points	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		57.1
				Dist 3dB Peak		9.2
				[mm]		



Meas.3 Body Plane with Bottom Side 0mm on 6 Channel in IEEE802.11b mode with Antenna Main

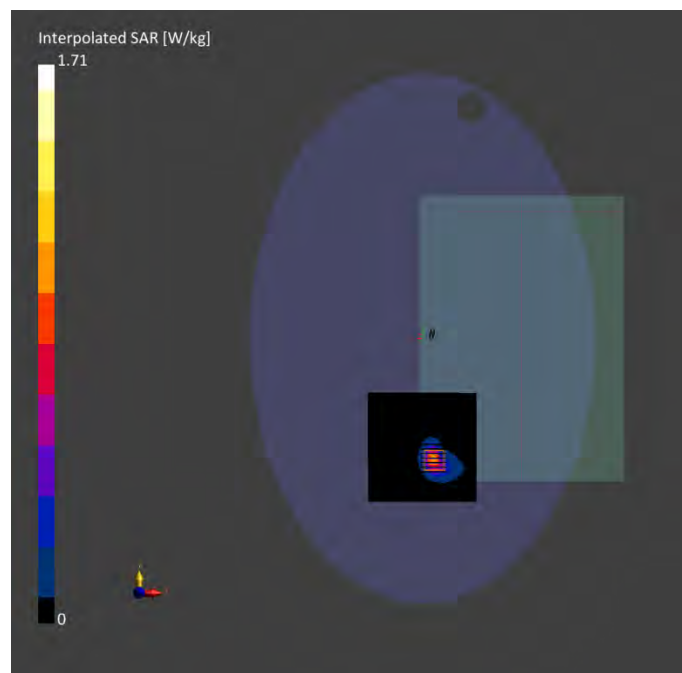
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 2.4G Hz	WLAN, 10012- CAB	2437.0, 6	6.98	1.78	39.6	22.6	21.6

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2024-12- 12	EX3DV4 - SN7893,	2024-09- 05	DAE4 Sn1711,	2024-03- 18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	120.0 x 120.0	30.0 x 30.0 x	Date	2024-12-12	2024-12-12
	[mm]		30.0	psSAR1g	0.815	0.832
Grid	Steps	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
	[mm]			psSAR10g	0.352	0.367
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				Power Drift	0.02	-0.14
Graded Grid		Yes	Yes	[dB]		
Grading Ratio		1.5	1.5	Power Scaling	Disabled	Disabled
MAIA		N/A	N/A	Scaling Factor		
Surface		VMS + 6p	VMS + 6p	[dB]		
Detection				TSL	No correction	No correction
Scan Method		Measured	Measured	Correction		
				M2/M1 [%]		49.6
				Dist 3dB Peak		7.2
				[mm]		



Meas.4 Body Plane with Bottom Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5290.0, 58	5.44	4.78	35.2	22.5	21.4

Hardware Setup

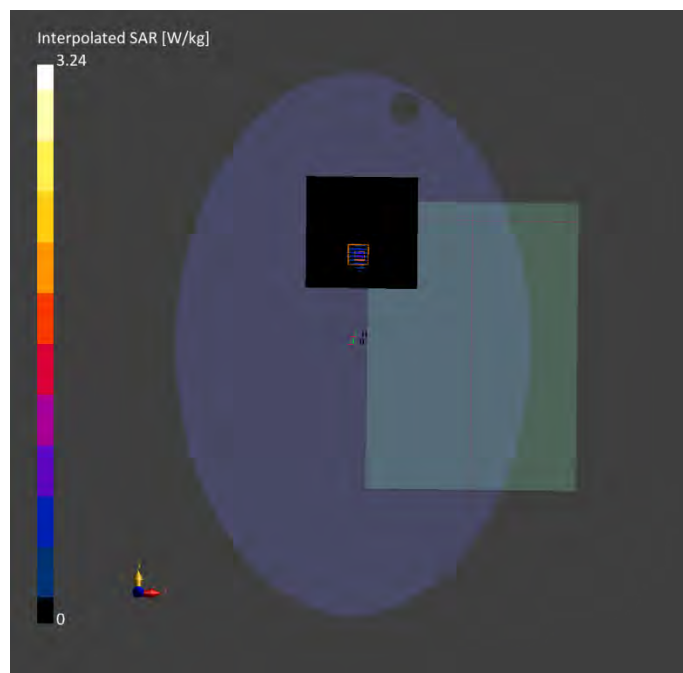
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 13	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-13	2024-12-13
psSAR1g [W/kg]	0.666	0.872
psSAR10g [W/kg]	0.211	0.228
Power Drift [dB]	0.00	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		58.0
Dist 3dB Peak [mm]		5.8



Meas.5 Body Plane with Bottom Side 0mm on 58 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5290.0, 58	5.44	4.78	35.2	22.5	21.4

Hardware Setup

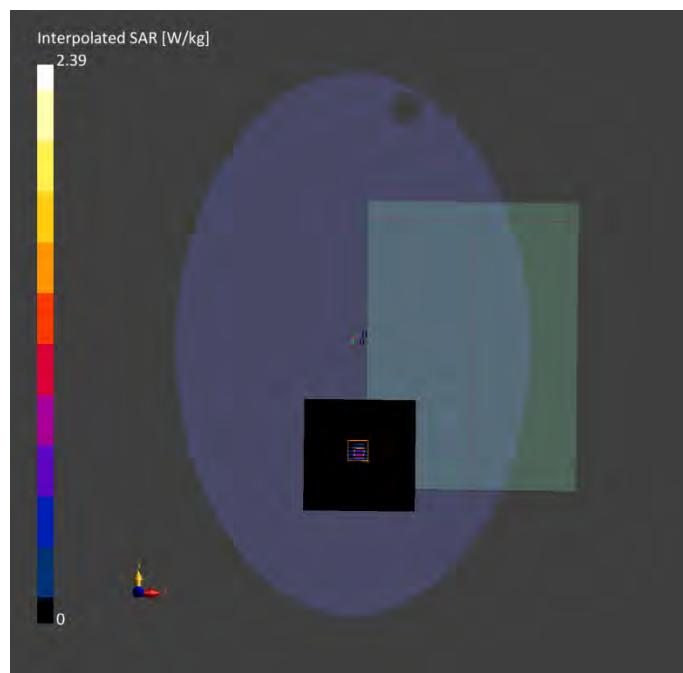
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 13	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-13	2024-12-13
psSAR1g [W/kg]	0.574	0.631
psSAR10g [W/kg]	0.150	0.158
Power Drift [dB]	-0.02	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		5.7



Meas.6 Body Plane with Bottom Side 0mm on 138 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5690.0, 138	4.98	5.19	34.1	22.3	21.3

Hardware Setup

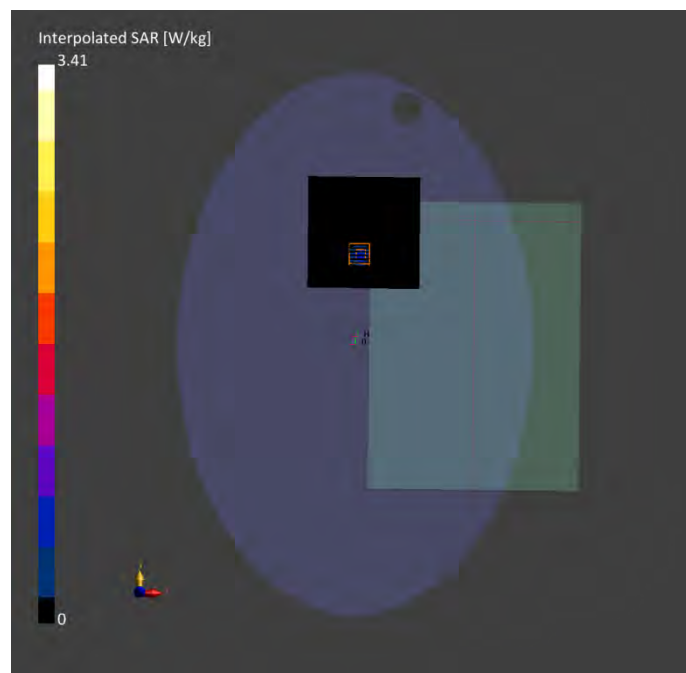
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 14	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-14	2024-12-14
psSAR1g [W/kg]	0.605	0.826
psSAR10g [W/kg]	0.186	0.199
Power Drift [dB]	-0.03	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		5.7



Meas.7 Body Plane with Bottom Side 0mm on 138 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5690.0, 138	4.98	5.19	34.1	22.3	21.3

Hardware Setup

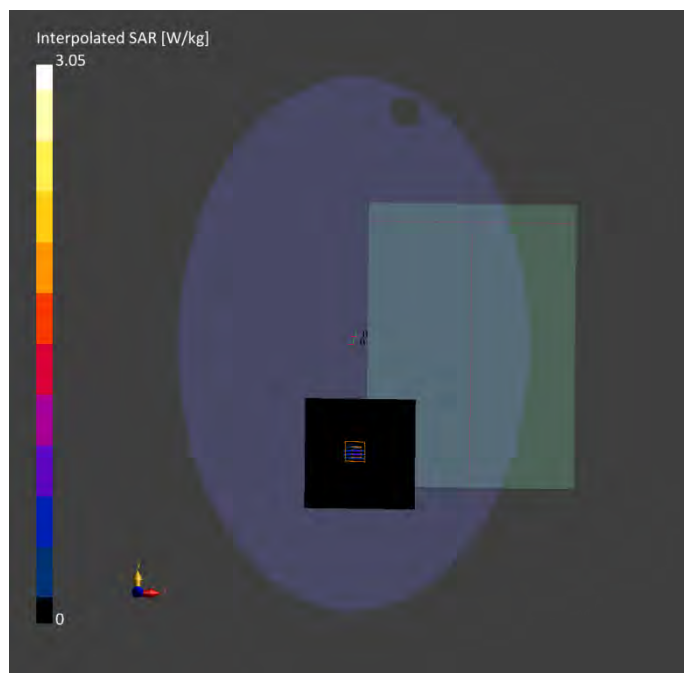
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 14	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-14	2024-12-14
psSAR1g [W/kg]	0.634	0.752
psSAR10g [W/kg]	0.176	0.185
Power Drift [dB]	-0.11	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		5.1



Meas.8 Body Plane with Bottom Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5775.0, 155	4.98	5.22	35.3	22.2	21.3

Hardware Setup

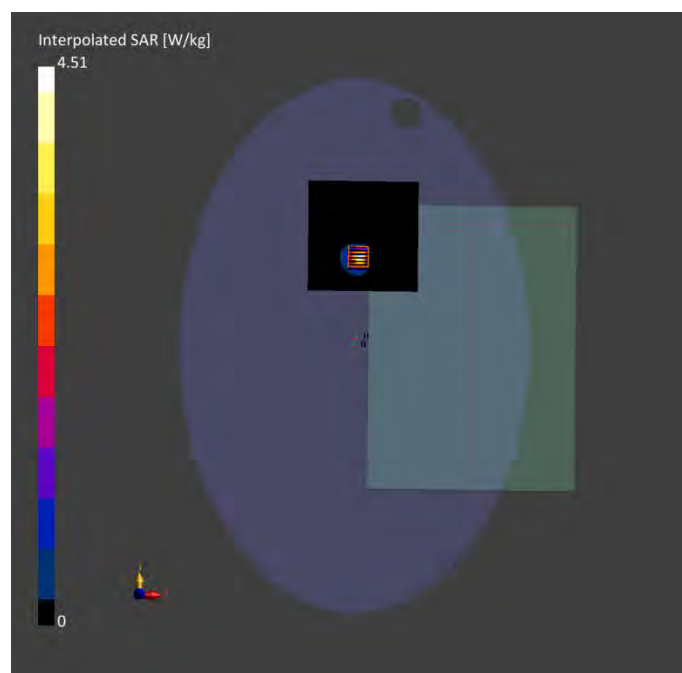
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 15	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-15	2024-12-15
psSAR1g [W/kg]	0.779	1.05
psSAR10g [W/kg]	0.235	0.252
Power Drift [dB]	0.05	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		5.4



Meas.9 Body Plane with Bottom Side 0mm on 155 Channel in IEEE802.11ac80 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	WLA N 5GHz	WLAN, 10544- AAC	5775.0, 155	4.98	5.22	35.3	22.2	21.3

Hardware Setup

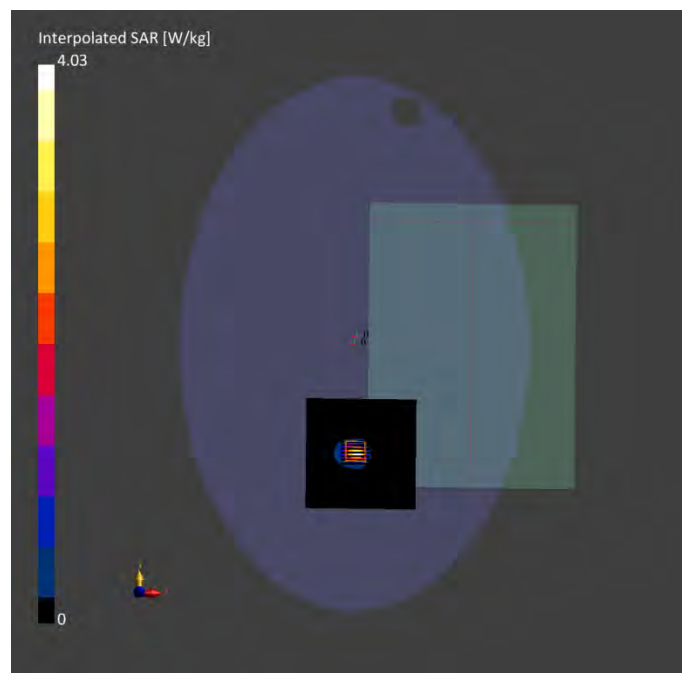
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 15	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-15	2024-12-15
psSAR1g [W/kg]	0.799	0.992
psSAR10g [W/kg]	0.230	0.248
Power Drift [dB]	-0.07	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		5.4



Meas.10 Body Plane with Bottom Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	Custo m Band	CW, 10554- AAD	5815.0, 5815000	4.98	5.31	34.7	22.2	21.3

Hardware Setup

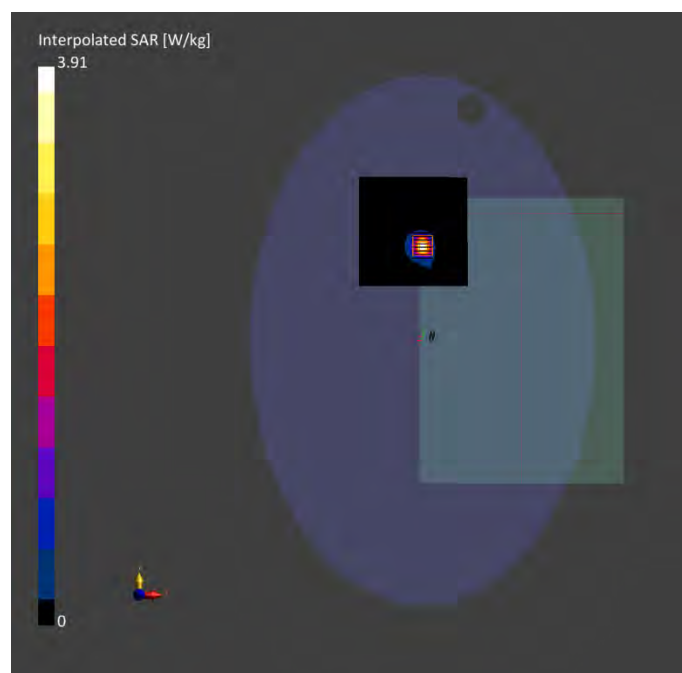
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 15	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-15	2024-12-15
psSAR1g [W/kg]	0.836	0.985
psSAR10g [W/kg]	0.251	0.249
Power Drift [dB]	-0.12	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		6.2



Meas.11 Body Plane with Bottom Side 0mm on 163 Channel in IEEE802.11ac160 mode with Antenna Main
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	Custo m Band	CW, 10554- AAD	5815.0, 5815000	4.98	5.31	34.7	22.2	21.3

Hardware Setup

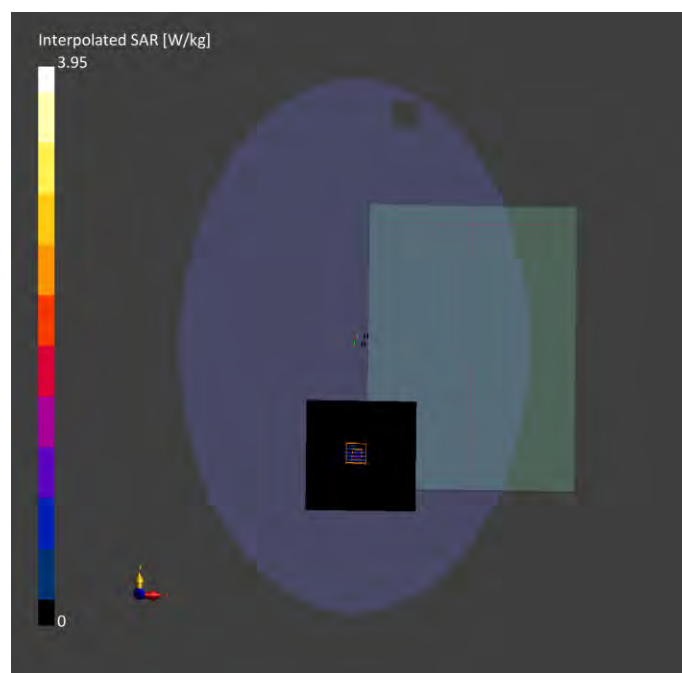
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 15	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-15	2024-12-15
psSAR1g [W/kg]	0.805	0.967
psSAR10g [W/kg]	0.231	0.244
Power Drift [dB]	-0.03	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL	No correction	No correction
Correction		
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		5.4



Meas.12 Body Plane with Bottom Side 0mm on 15 Channel in IEEE802.11ax160 mode with Antenna Auxiliary
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	BACK, 0.00	U-NII- 5	WLAN, 10755- AAC	6025.0, 15	5.11	5.37	35.9	22.2	21.4

Hardware Setup

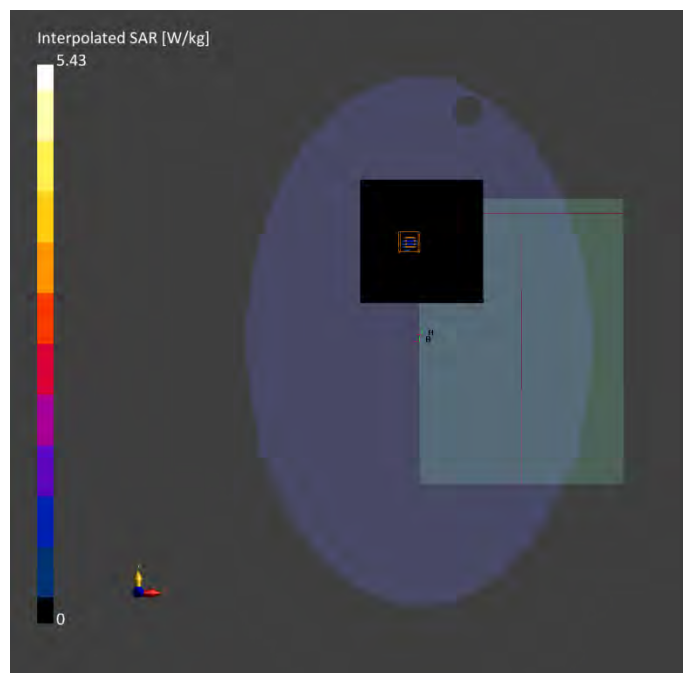
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000 2024-12- 16	EX3DV4 - SN7893, 2024-09- 05	DAE4 Sn1711, 2024-03- 18

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	136.0 x 136.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor	3.0	1.4
Surface [mm]		
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	N/A
Surface	VMS + 6p	VMS + 6p
Detection		
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2024-12-16	2024-12-16
psSAR1g [W/kg]	0.851	1.05
psSAR10g [W/kg]	0.209	0.243
APD 4cm ² [W/m ²]		5.79
Power Drift [dB]	0.18	-0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.3
Dist 3dB Peak [mm]		4.6



Meas.13 Body Plane with Bottom Edge 0mm on 79 Channel in IEEE802.11ax160 mode with Antenna Main

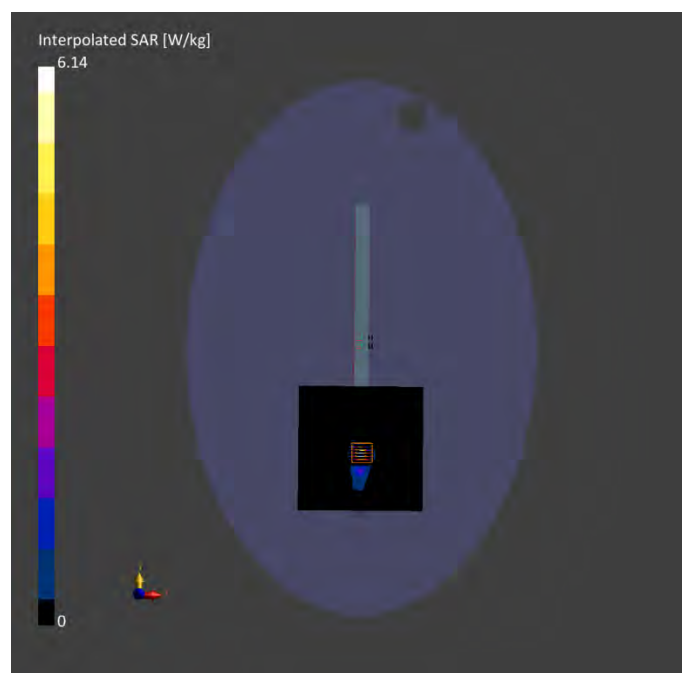
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequenc y [MHz], Channel Number	Conversi on Factor	TSL Conduct ivity [S/m]	TSL Permitti vity	Ambient Tempera ture [°C]	Liquid Tempera ture [°C]
Flat, HSL	EDGE BOTTOM , 0.00	U-NII- 5	WLAN, 10755- AAC	6345.0, 79	5.11	5.87	35.0	22.2	21.4

Hardware Setup

Phantom	TSL, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
ELI V8.0 (20deg probe tilt) - 2159	HBBL-600-10000	2024-12- 16	EX3DV4 - SN7893,	2024-09- 05	DAE4 Sn1711,	2024-03- 18

Scan Setup				Measurement Results		
		Area Scan	Zoom Scan			
Grid	Extents	136.0 x 136.0	22.0 x 22.0 x	Date	2024-12-16	2024-12-16
	[mm]		22.0	psSAR1g	0.925	1.10
Grid	Steps	8.5 x 8.5	3.4 x 3.4 x 1.4	[W/kg]		
	[mm]			psSAR10g	0.239	0.264
Sensor		3.0	1.4	[W/kg]		
Surface [mm]				APD 4cm ²		6.27
Graded Grid		Yes	Yes	[W/m ²]		
Grading Ratio		1.5	1.4	Power Drift	-0.12	0.16
MAIA		Y	N/A	[dB]		
Surface		VMS + 6p	VMS + 6p	Power Scaling	Disabled	Disabled
Detection				Scaling Factor		
Scan Method		Measured	Measured	[dB]		
				TSL	No correction	No correction
				Correction		
				M2/M1 [%]		49.9
				Dist 3dB Peak		5.4
				[mm]		



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24B1010-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ24B1010-AS-1.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ24B1010-AC-1.pdf”.

ANNEX G TUNE-UP PROCEDURE

Please refer the document “BL-SZ24B1010-AT-2.pdf”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--