



HAC RF EMISSIONS TEST REPORT

**FCC 47 CFR § 20.19
ANSI C63.19-2019**

For
SMARTPHONE

**FCC ID: BCG-E9192A
Model Name: A3713**

**Report Number: 15982156-S4V1
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Revision History

Rev.	Date	Revisions	Revised By
V1	7/8/2026	Initial Issue	--

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1. Attestation of Test Results

Applicant Name	APPLE, INC.
FCC ID	BCG-E9192A
Model Name	A3713
Applicable Standards	FCC 47 CFR § 20.19 ANSI C63.19-2019
Date Tested	5/26/2026 to 5/30/2026
Test Results	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not considered unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government, or any agency of the U.S. government.

Approved & Released By:	Co-Reviewed By:	Prepared By:
		
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2. Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.19-2019 Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids and FCC Published procedure:

- KDB 285076 D01 HAC Guidance v06r04
- KDB 285076 D03 HAC FAQ v01r07
- TCB workshop updates

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

Company	Location	A2LA	FCC Registration #	ISED CABID	ISED Company #
UL Verification Services Inc.	47173 Benicia Street, Fremont, CA, 94538 USA	0751.05	550739	US0104	2324A
UL Verification Services Inc.	47266 Benicia Street, Fremont, CA, 94538 USA				

4. Calibration and Uncertainty

4.1. Measuring Instrument Calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

Lab Equipment				
Name Of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe ¹	SPEAG	EF3DV3	4041	3/4/2027
Data Acquisition Electronics	SPEAG	DAE4ip	1621	4/10/2027
Modulation and Interference Analyzer	SPEAG	MAIA	1718	N/A
Calibration Dipole	SPEAG	CD1880V3	1122	2/11/2027
Synthesized Signal Generator	R&S	SMB 100A	180968-gX	2/12/2027
Power Meter	HP	437B	3125U11347	1/31/2027
Power Sensor	HP	8481A	1926A27048	1/31/2027
Power Sensor	R&S	NRP18A	100995-hs	2/11/2027
Bi-directional Coupler	Werlatone	C8060-102	2149	N/A
Radio Communication Tester	R&S	CMW 500	170416-Lb	2/28/2027

Note(s):

1. According to SPEAG's Technical Report, "MIF Verification", Doc # TR-FB-12.09.04-1, issued date: 9/4/2012. E-field probes are calibrated with specified uncertainty according to ISO 17025 as described in their calibration certificate. The MIF according to the definition in ANSI C63.19 is specific for a modulation and can therefore be used as a constant value if the probe has been PMR calibrated.

4.2. Measurement Uncertainty

Error Description	Uncertainty value ($\pm\%$)	Probe Dist.	Div.	(C _i) E	Std. Unc.($\pm\%$) E
Measurement System					
Probe Calibration	5.1	N	1	1	5.1
Axial Isotropy	4.7	R	1.732	1	2.7
Sensor Displacement	7.2	R	1.732	1	4.2
Boundary Effects	2.4	R	1.732	1	1.4
Linearity	4.7	R	1.732	1	2.7
Scaling to Peak Power with MIF	0.0	R	1.732	1	0.0
System Detection Limit	1.0	R	1.732	1	0.6
Readout Electronics	0.3	N	1	1	0.3
Response Time	0.0	R	1.732	1	0.0
Integration Time	0.0	R	1.732	1	0.0
RF Ambient Conditions	3.0	R	1.732	1	1.7
RF Reflections	12.0	R	1.732	1	6.9
Probe Positioner	1.2	R	1.732	1	0.7
Probe Positioning	3.0	R	1.732	1	1.7
Extrapolation and Interpolation	1.0	R	1.732	1	0.6
Dipole Related					
Dist. Dipole - Scan Plane	5.2	R	1.732	1	3.0
Input Power	4.7	N	1	1	4.7
Combined Std. Uncertainty					12.1
Expanded Std. Uncertainty on Power (Coverage Factor for 95%, k = 2)					24.2
Expanded Std. Uncertainty on Field					12.1
Notes for table					
1. N - Nomal					
2. R - Rectangular					
3. Div. - Divisor used to obtain standard uncertainty					
4. C _i - is the Sensitivity coefficient					

Error Description	Uncertainty value ($\pm\%$)	Probe Dist.	Div.	(Ci) E	Std. Unc.($\pm\%$) E
Measurement System					
Probe Calibration	5.1	N	1	1	5.1
Axial Isotropy	4.7	R	1.732	1	2.7
Sensor Displacement	7.2	R	1.732	0.5	2.1
Boundary Effects	2.4	R	1.732	1	1.4
Phantom Boundary Effect	7.2	R	1.732	1	4.2
Probe Linearity	4.7	R	1.732	1	2.7
Scaling to Peak Power with MIF	10.0	R	1.732	1	5.8
System Detection Limit	1.0	R	1.732	1	0.6
Readout Electronics	0.3	N	1	1	0.3
Response Time	0.8	R	1.732	0	0
Integration Time	2.6	R	1.732	0	0
RF Ambient Conditions	3.0	R	1.732	1	1.7
RF Reflections	12.0	R	1.732	1	6.9
Probe Positioner	1.2	R	1.732	1	0.7
Probe Positioning	3.0	R	1.732	1	1.7
Extrapolation and Interpolation	1.0	R	1.732	1	0.6
Test sample Related					
Device Positioning Vertical	4.7	R	1.732	1	2.7
Device Positioning Lateral	1.0	R	1.732	1	0.6
Device Holder and Phantom	2.4	R	1.732	1	1.4
Power Drift	5.0	R	1.732	1	2.9
Phantom and Setup Related					
Phantom Thickness	2.4	R	1.732	1	1.4
Combined Std. Uncertainty					13.1
Expanded Std. Uncertainty on Power (Coverage Factor for 95%, k = 2)					26.3
Expanded Std. Uncertainty on Field					13.1
Notes for table					
1. N - Nomal					
2. R - Rectangular					
3. Div. - Divisor used to obtain standard uncertainty					
4. C_i - is the Sensitivity coefficient					

5. System Specifications

E-field measurements are performed using the DASY6¹ automated dosimetric assessment system. The DASY6 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland.

The DASY6 HAC Extension consists of the following parts:

Test Arch Phantom

The specially designed Test Arch allows high precision positioning of both the device and any of the validation dipoles.

EF3DV3 Isotropic E-Field Probe

- | | |
|----------------|---|
| Construction: | <ul style="list-style-type: none">• One dipole parallel, two dipoles normal to probe axis• Built-in shielding against static charges• PEEK enclosure material |
| Calibration: | <ul style="list-style-type: none">• In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$)• ISO/IEC 17025 <u>calibration service</u> available. |
| Frequency: | <ul style="list-style-type: none">• 40 MHz – >6 GHz (can be extended to < 20 MHz)• Linearity: ± 0.2 dB (100 MHz – 3 GHz) |
| Directivity: | <ul style="list-style-type: none">• ± 0.2 dB in air (rotation around probe axis)• ± 0.4 dB in air (rotation normal to probe axis) |
| Dynamic Range: | <ul style="list-style-type: none">• 2 V/m to > 1000 V/m; Linearity: ± 0.2 dB |
| Dimensions: | <ul style="list-style-type: none">• Overall length: 337 mm (Tip: 20 mm)• Tip diameter: 3.9 mm (Body: 12 mm)• Distance from probe tip to dipole centers: 1.5 mm• Sensor displacement to probe's calibration point: <0.7 mm |
| Application: | <ul style="list-style-type: none">• General near-field measurements up to 6 GHz• HAC measurements up to 6 GHz• Field component measurements• Fast automatic scanning in phantoms |

¹ DASY6: v1.2.8.2224 and older generations.

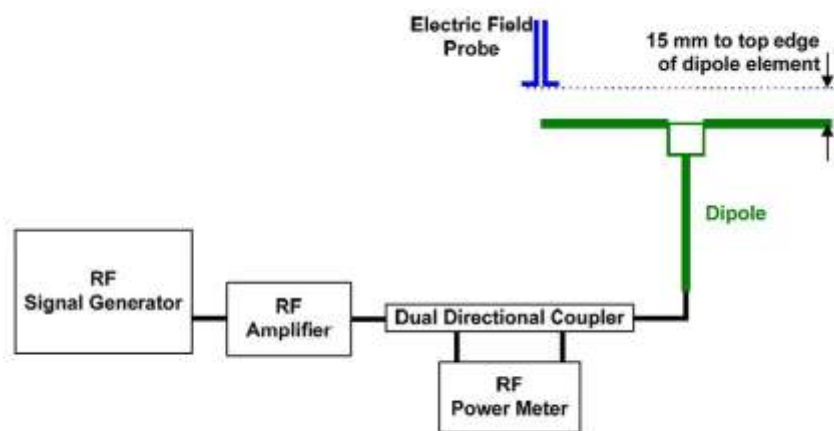
6. System Validation

The test setup was validated when first configured and verified periodically thereafter to ensure proper function. The procedure provided in this section is a validation procedure using dipole antennas for which the field levels were computed by numeric modeling.

Procedure:

- Place a dipole antenna meeting the requirements given in ANSI C63.19 in the normally occupied by the WD.
- The dipole antenna serves as a known source for an electrical and magnetic output. Position the E-field probe so that the following occurs:
 - The probes and their cables are parallel to the coaxial feed of the dipole antenna
 - The probe cables and the coaxial feed of the dipole antenna approach the measurement area from opposite directions
 - The center point of the probe element(s) is 15 mm from the closest surface of the dipole elements.
- Scan the length of the dipole with the E-field probe and record the two maximum values found near the dipole ends. Average the two readings and compare the reading to the expected value in the calibration certificate or the expected value in this standard.

Setup diagram



6.1. System Validation Results

SAR Lab	Date	Dipole Type Serial No. (Center Freq.)	Dipole Cal. Due Data	E-Field Measured (V/m)	E-Field Target (V/m) (From SPEAG)	E-Field ¹ Delta ± %	Plot No.
SAR 16	5/27/2026	CD1880V3 SN: 1122 (1900 MHz)	2/11/2027	88.9	88.70	0.23%	1

Note(s):

- Delta (Deviation) % = 100 * (Measured value minus Target value) divided by the Target value. Deltas within ±18% are acceptable, of which 12% is deviation and 13% is measurement uncertainty.

7. Device Under Test

Normal operation	Held to head		
Back Cover	The Back Cover is not removable		
Test sample information	S/N F47XH0XX9W	IMEI N/A	Notes RFE DUT

7.1. Air Interfaces and Operating Modes

Air Interface	Bands (MHz)	Type	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Mode ^{3,4}
GSM	GSM 850	VO	No ¹	Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS	Max Power & Mode A
	GSM 1900		Yes ²			
	GPRS/EDGE 850	DT/VD	No ¹		FaceTime	Max Power & Mode A
	GPRS/EDGE 1900		Yes ²			
W-CDMA (UMTS)	850 (B5)	VO	No ¹	Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS	Max Power & Mode A
	1700 (B4)					
	1900 (B2)					
	HSPA	VD	No ¹		FaceTime	Max Power & Mode A
LTE - FDD	600 (B71)	VD	No ¹	5G NR, Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS FaceTime	Max Power & Mode A
	700 (B12/13/14/17)					
	850 (B5/26/106)					
	1700 (B4/66)					
	1900 (B2/25)					
	2300 (B30)					
	2500 (B7)					
LTE - TDD	2500 (B53)	VD	No	5G NR, Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS FaceTime	Max Power & Mode A
	2600 (B41)					
	3600 (B48)					
5G NR (FR1) FDD	600 (n71)	VD	No	LTE, Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS FaceTime	Max Power & Mode A
	700 (n12/n14)					
	850 (n5/n26)					
	1700 (n66/n70)					
	1900 (n2/n25)					
	2300 (n30)					
	2500 (n7)					
5G NR (FR1) TDD	2500 (n53)	VD	No	LTE, Wi-Fi, BT, NB U-NII, 802.15.4 & 802.15.4ab NB	CMRS FaceTime	Max Power & Mode A
	2600 (n41)					
	3500 (n78)					
	3600 (n48)					
	3700 (n77 Block A/C)					

Air Interface	Bands (MHz)	Type	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Mode ^{3,4}
Wi-Fi	2450	VD	No	WWAN, NB U-NII & 802.15.4ab	CMRS FaceTime	Max Power & Mode A
	U-NII-1			WWAN, BT, 802.15.4, & 802.15.4ab NB		
	U-NII-2A					
	U-NII-2C					
	U-NII-3					
	U-NII-4					
	U-NII-5	VD	No	WWAN, BT, 802.15.4, & 802.15.4ab NB	CMRS FaceTime	Max Power & Mode A
	U-NII-6	VD	No	WWAN, BT, 802.15.4, & 802.15.4ab NB	CMRS FaceTime	N/A
	U-NII-7					
	U-NII-8					
NB U-NII	U-NII-1	DT	N/A	WWAN, Wi-Fi 2.4 GHz	N/A	N/A
	U-NII-3					
	U-NII-5					
802.15ab NB	U-NII-3	DT	N/A	WWAN, BT, 802.15.4 & Wi-Fi	N/A	N/A
802.15.4	2450	DT	N/A	WWAN, 802.15.4ab NB & Wi-Fi 5/6G	N/A	N/A
BT	2450	DT	N/A	WWAN, 802.15.4ab NB & Wi-Fi 5/6G	N/A	N/A
MSS	1600	DT	N/A	N/A	N/A	N/A
NFC	13	DT	N/A	WWAN, BT, Wi-Fi, 802.15.4	N/A	N/A
UWB (Ultra-Wideband)	6500	DT	N/A	N/A	N/A	N/A
	8000					
Type VO: Legacy Cellular Voice Service DT: Digital Transport only (no voice) VD: IP Voice Service over Digital Transport CMRS: Commercial Mobile Radio Service			Note: 1. Evaluated for RF _{AIPL} . Refer to §10. 2. Evaluated for RF _{AIL} . Refer to §11. 3. For all air interfaces, the declared maximum output across all power tables, including held-to-head, off-body, and body-worn, was used for the RF _{AIPL} evaluation. The declared maximum output power is Max Power for WWAN and WLAN operating modes. Refer to §10 for RF _{AIPL} evaluations. 4. For all air interfaces, the maximum held-to-head output power was used for the RF _{AIL} evaluation. The maximum held-to-head output power is Mode A for WWAN and WLAN operating modes. Refer to §11 for RF _{AIL} evaluations. 5. Supported Frequency > 6GHz. ANSI C63.19 2019 only requires HAC evaluations for Technologies/Frequencies < 6GHz. 6. UL MIMO supported for 5G NR n41(PC1.5)/n77(PC1.5)			

8. Modulation Interference Factor (MIF)

A WD's interference potential is a function of both the WD's average in-use near-field field strength and of the signal's audio-frequency amplitude modulation characteristics. The portion of the interference potential attributable to the modulation characteristic can be evaluated independently of any particular WD. This evaluation of this interference potential relative to a signal's average field strength is described in D.7 and is termed its Modulation Interference Factor (MIF). The MIF may be determined through analysis and simulation, allowing evaluation of an RF technology's RF interference potential in advance of actual product development.

The evaluation method or the MIF is defined in ANSI C63.19 section D.7. Most MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for all the air interfaces (GSM, WCDMA, LTE, 5G NR, and Wi-Fi). For operating modes in which SPEAG did not provided MIF values, test lab manually performed MIF measurements using procedure outlined in *SPEAG DASY6 Module HAC System Handbook §7.1 MIF Measurements with MAIA*. The data included in this report are for the worst-case operating modes. The UIDs used are listed below:

UID	Communication System Name	MIF (dB)
10021-DAC	GSM-FDD (TDMA, GMSK)	3.63
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	3.80
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	1.15
10011-CAC	UMTS-FDD (WCDMA)	-27.23
10225-CAC	UMTS-FDD (HSPA+)	-20.39
10170-CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-9.76
10182-CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16QAM)	-9.76
10176-CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76
10173-CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-1.44
10235-CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-1.44
10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10069-CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10317-AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	-9.82
10591-AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	-5.59
10636-AAE	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	-5.56
10671-AAC	IEEE 802.11ax/be (20MHz, MCS0, 90pc duty cycle)	-5.58
10797-AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	-14.32
10803-AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-14.38
10866-AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-16.69
10898-AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	-16.68
10903-AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	-16.68
10929-AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	-15.06
10930-AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-15.06
10931-AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	-15.06
10932-AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	-15.06
10933-AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	-15.06
10934-AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	-15.07
10935-AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	-15.07
UL-3*	5G NR PC3 (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.77
UL-6*	5G NR PC2 (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	0.47
UL-9*	5G NR PC1.5 (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	0.47
UL-1*	5G NR PC3 (DFT-s-OFDM, 50 RB, 100 MHz, BPSK, 30 kHz)	-1.16
UL-4*	5G NR PC2 (DFT-s-OFDM, 50 RB, 100 MHz, BPSK, 30 kHz)	-1.16
UL-7*	5G NR PC1.5 (DFT-s-OFDM, 50 RB, 100 MHz, BPSK, 30 kHz)	1.14
UL-2*	5G NR PC3 (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.31
UL-5*	5G NR PC2 (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.31
UL-8*	5G NR PC1.5 (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	0.96

Note(s):

- Refer to Appendix G for RF-E UID Specifications summary provided by SPEAG.
- *Refer to Appendix H for MIF measurements conducted by the test lab for 5G NR FDD, TDD PC3, PC2, and PC1.5

9. RF Emissions Measurement Criteria

The WD's conducted power must be at or below either the stated RF_{AIPL} (Table 4.1) or the stated peak power level (Table 4.2), or the average near-field emissions over the measurement area must be at or below the stated RF_{AIL} (Table 4.3), or the stated peak field strength (Table 4.4). The WD may demonstrate compliance by meeting any of these four requirements, but it must do so in each of its operating bands at its established worst-case normal speech-mode operating condition.

Table 4.1 - Wireless device RF audio interference power level

Frequency Range (MHz)	RF_{AIPL} (dBm)
< 960	29
960 – 2000	26
> 2000	25

Table 4.2 - Wireless device RF peak power level

Frequency Range (MHz)	$RF_{Peak\ Power}$ (dBm)
< 960	35
960 – 2000	32
> 2000	31

Table 4.3 - Wireless device RF audio interference level

Frequency Range (MHz)	RF_{AIL} [dB(V/m)]
≤ 960	39
960 – 2000	36
> 2000	35

Table 4.4 - Wireless device RF peak near-field level

Frequency Range (MHz)	RF_{peak} [dB(V/m)]
≤ 960	45
960 – 2000	42
> 2000	41

10. Evaluation for RF Audio Interference Power Level (RF_{AIPL})

An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is at or below the RF_{AIPL} listed in the table below (from ANSI C63.19 2019 §4.7) for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

For all air interfaces, the declared maximum output across all power tables, including held-to-head, off-body, and body-worn, was used for the RF_{AIPL} evaluation. The declared maximum output power is Max Power for WWAN and WLAN operating modes.

Note(s):

- Average Antenna Input power = Average Frame power to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- For operating modes where Average Antenna Input power plus MIF is below RF_{AIPL}, they are compliant to RF_{AIPL} requirements.
- For operating modes where Average Antenna Input power plus MIF is above RF_{AIPL}, they were evaluated to RF_{AIL} requirements. Refer to §11 for RF_{AIL} Evaluations.
- For 5G NR UL MIMO, as the duty cycle (and frame-average power) decreases, the MIF increases. At duty cycles below 50%, the reduction in frame-average power offsets the increase in MIF; therefore, the worst-case RF_{AIPL} for a power class with a maximum duty cycle of 50% or less occurs at the maximum supported duty cycle. For PC3, the worst-case RF_{AIPL} occurs at a 50% duty cycle, so RF_{AIPL} for PC3 is calculated using the MIF at 50% duty, the same value used for PC2 and PC1.5.

Table 4.1—Wireless device RF audio interference power level

Frequency Range (MHz)	RF _{AIPL} (dBm)
< 960	29
960 – 2000	26
> 2000	25

ANT 1 WWAN

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIPL} (dBm)	RF _{AIPL} Limit (dBm)	HAC Tested	UID
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	30.5	12.5%	21.5	3.80	25.3	26	No	10023
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	29.5	25.0%	23.5	1.15	24.6	26	No	10024
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	Max Power	24.9	100.0%	24.9	-20.39	4.5	26	No	10225
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	Max Power	24.9	100.0%	24.9	-9.76	15.1	26	No	10170
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	Max Power	24.2	100.0%	24.2	-9.76	14.4	25	No	10170
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	Max Power	24.9	100.0%	24.9	-9.76	15.1	26	No	10170
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	Max Power	24.2	100.0%	24.2	-9.76	14.4	25	No	10176
LTE Band 41 PC3	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	63.3%	23.7	-1.44	22.3	25	No	10173
LTE Band 41 PC2	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	28.5	43.3%	24.9	-1.44	23.4	25	No	10173
LTE Band 53 PC3	2483.5 - 2495	TDD SC-FDMA	16-QAM	20	NA	Max Power	20.7	63.3%	18.7	-1.44	17.3	25	No	10173
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	24.9	89.6%	24.4	-5.54	18.9	26	No	UL-1
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	24.2	89.6%	23.7	-5.54	18.2	25	No	UL-1
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	24.9	89.6%	24.4	-5.54	18.9	26	No	UL-1
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	24.2	89.6%	23.7	-5.54	18.2	25	No	UL-1
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	π/2 BPSK	50	30	Max Power	25.7	69.6%	24.1	-5.19	18.9	25	No	UL-4
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	50	30	Max Power	24.2	69.7%	22.6	-5.81	16.8	25	No	UL-6
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD DFT-s-OFDM	π/2 BPSK	50	30	Max Power	28.5	49.7%	25.5	-4.31	21.2	25	No	UL-7
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	40	30	Max Power	27.0	49.4%	23.9	-4.89	19.0	25	No	UL-9
5G NR Band n53 PC3	2484 - 2495	TDD DFT-s-OFDM	π/2 BPSK	50	30	Max Power	20.7	69.6%	19.1	-5.19	13.9	25	No	UL-4
5G NR Band n53 PC3	2484 - 2495	TDD CP-OFDM	QPSK	50	30	Max Power	19.2	69.7%	17.6	-5.81	11.8	25	No	UL-6
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n70	1695 - 1710	FDD DFT-s-OFDM	π/2 BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1

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Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{exptl} (dBm)	RF _{exptl} Limit (dBm)	HAC Tested	UID
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	Max Power	32.5	12.5%	23.5	3.80	27.3	29	No	10023
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	Max Power	31.5	25.0%	25.5	1.15	26.6	29	No	10024
W-CDMA Band V	824 - 849	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	29	No	10225
LTE Band 5	824 - 849	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 12	699 - 716	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 13	777 - 787	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 14	788 - 798	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 17	704 - 716	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 26	814 - 849	FDD SC-FDMA	16-QAM	15	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10182
LTE Band 71	617 - 652	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10170
LTE Band 106	896 - 901	FDD SC-FDMA	16-QAM	3	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10185
5G NR Band n5	824 - 849	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n12	699 - 716	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n14	788 - 798	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n26	814 - 849	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n71	617 - 652	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1

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Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{exptl} (dBm)	RF _{exptl} Limit (dBm)	HAC Tested	UID
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	Max Power	33.5	12.5%	24.5	3.80	28.3	29	No	10023
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	Max Power	32.5	25.0%	26.5	1.15	27.6	29	No	10024
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	31.8	12.5%	22.8	3.80	26.6	26	Yes	10023
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	30.8	25.0%	24.8	1.15	25.9	26	No	10024
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
W-CDMA Band V	824 - 849	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	29	No	10225
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 5	824 - 849	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
LTE Band 12	699 - 716	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 13	777 - 787	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 14	788 - 798	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 17	704 - 716	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10176
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 26	814 - 849	FDD SC-FDMA	16-QAM	15	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10182
LTE Band 106	896 - 901	FDD SC-FDMA	16-QAM	3	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10185
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.2	100.0%	25.2	-9.76	15.4	25	No	10176
LTE Band 41 PC3	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	63.3%	23.7	-1.44	22.3	25	No	10173
LTE Band 41 PC2	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	28.7	43.3%	25.1	-1.44	23.6	25	No	10173
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
LTE Band 71	617 - 652	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	29	No	10170
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n5	824 - 849	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n12	699 - 716	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n14	788 - 798	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n26	814 - 849	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.2	89.6%	24.7	-5.54	19.2	25	No	UL-1
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	$\pi/2$ BPSK	50	30	Max Power	25.7	69.6%	24.1	-5.19	18.9	25	No	UL-4
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	50	30	Max Power	24.2	69.7%	22.6	-5.81	16.8	25	No	UL-6
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD DFT-s-OFDM	$\pi/2$ BPSK	50	30	Max Power	28.7	49.7%	25.7	-4.31	21.4	25	No	UL-7
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	40	30	Max Power	27.2	49.4%	24.1	-4.89	19.2	25	No	UL-9
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n70	1695 - 1710	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n71	617 - 652	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	29	No	UL-1

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Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	30.5	12.5%	21.5	3.80	25.3	26	No	10023
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	29.5	25.0%	23.5	1.15	24.6	26	No	10024
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	Max Power	24.9	100.0%	24.9	-20.39	4.5	26	No	10225
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	Max Power	24.9	100.0%	24.9	-9.76	15.1	26	No	10170
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	Max Power	23.9	100.0%	23.9	-9.76	14.1	25	No	10170
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	Max Power	24.9	100.0%	24.9	-9.76	15.1	26	No	10170
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	Max Power	24.2	100.0%	24.2	-9.76	14.4	25	No	10176
LTE Band 41 PC3	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	63.3%	23.7	-1.44	22.3	25	No	10173
LTE Band 41 PC2	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	28.7	43.3%	25.1	-1.44	23.6	25	No	10173
LTE Band 48 PC3	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	Max Power	25.2	63.3%	23.2	-1.44	21.8	25	No	10173
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	24.9	89.6%	24.4	-5.54	18.9	26	No	UL-1
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	23.9	89.6%	23.4	-5.54	17.9	25	No	UL-1
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	24.9	89.6%	24.4	-5.54	18.9	26	No	UL-1
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	24.2	89.6%	23.7	-5.54	18.2	25	No	UL-1
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	25.7	69.6%	24.1	-5.19	18.9	25	No	UL-4
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	50	30	Max Power	24.2	69.6%	22.6	-5.81	16.8	25	No	UL-6
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	28.7	49.7%	25.7	-4.31	21.4	25	No	UL-7
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	40	30	Max Power	27.2	49.4%	24.1	-4.89	19.2	25	No	UL-9
5G NR Band n48 PC3	3550 - 3700	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	25.2	69.6%	23.6	-5.19	18.4	25	No	UL-4
5G NR Band n48 PC3	3550 - 3700	TDD CP-OFDM	QPSK	50	30	Max Power	23.7	69.7%	22.1	-5.81	16.3	25	No	UL-6
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n70	1695 - 1710	FDD DFT-s-OFDM	16-QAM	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	28.0	49.7%	25.0	-4.31	20.7	25	No	UL-7
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	40	30	Max Power	26.5	49.4%	23.4	-4.89	18.5	25	No	UL-9
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	28.0	49.7%	25.0	-4.31	20.7	25	No	UL-7
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	40	30	Max Power	26.5	49.4%	23.4	-4.89	18.5	25	No	UL-9

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Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
LTE Band 48 PC3	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	Max Power	26.0	63.3%	24.0	-1.44	22.6	25	No	10173
5G NR Band n48 PC3	3550 - 3700	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n48 PC3	3550 - 3700	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9

ANT 8 WWAN

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
LTE Band 48 PC3	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	Max Power	23.9	63.3%	21.9	-1.44	20.5	25	No	10173
5G NR Band n48 PC3	3550 - 3700	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	23.9	69.6%	22.3	-5.19	17.1	25	No	UL-4
5G NR Band n48 PC3	3550 - 3700	TDD CP-OFDM	QPSK	50	30	Max Power	22.4	69.7%	20.8	-5.81	15.0	25	No	UL-6
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9

ANT 9 WWAN

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
LTE Band 48 PC3	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	Max Power	23.9	63.3%	21.9	-1.44	20.5	25	No	10173
5G NR Band n48 PC3	3550 - 3700	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	23.9	69.6%	22.3	-5.19	17.1	25	No	UL-4
5G NR Band n48 PC3	3550 - 3700	TDD CP-OFDM	QPSK	50	30	Max Power	22.4	69.7%	20.8	-5.81	15.0	25	No	UL-6
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block A PC2/PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	50	30	Max Power	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD DFT-s-OFDM	16-QAM	50	30	Max Power	29.0	49.7%	26.0	-4.31	21.7	25	No	UL-7
5G NR Band n77 Block C PC2/PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	40	30	Max Power	27.5	49.4%	24.4	-4.89	19.5	25	No	UL-9

ANT 14 WWAN

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	32.0	12.5%	23.0	3.80	26.8	26	Yes	10023
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	Max Power	31.0	25.0%	25.0	1.15	26.1	26	Yes	10024
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	Max Power	25.7	100.0%	25.7	-20.39	5.3	26	No	10225
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	26	No	10170
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10176
LTE Band 41 PC3	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	63.3%	23.7	-1.44	22.3	25	No	10173
LTE Band 41 PC2	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	Max Power	28.7	43.3%	25.1	-1.44	23.6	25	No	10173
LTE Band 53 PC3	2483.5 - 2495	TDD SC-FDMA	16-QAM	20	NA	Max Power	20.7	63.3%	18.7	-1.44	17.3	25	No	10173
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	Max Power	25.7	100.0%	25.7	-9.76	15.9	25	No	10170
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	$\pi/2$ BPSK	50	30	Max Power	25.7	69.6%	24.1	-5.19	18.9	25	No	UL-4
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	50	30	Max Power	24.2	22.6		-5.81	16.8	25	No	UL-6
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD DFT-s-OFDM	$\pi/2$ BPSK	50	30	Max Power	28.7	49.7%	25.7	-4.31	21.4	25	No	UL-7
5G NR Band n41 PC2/PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	40	30	Max Power	27.2	49.4%	24.1	-4.89	19.2	25	No	UL-9
5G NR Band n53 PC3	2484 - 2495	TDD DFT-s-OFDM	$\pi/2$ BPSK	50	30	Max Power	20.7	69.6%	19.1	-5.19	13.9	25	No	UL-4
5G NR Band n53 PC3	2484 - 2495	TDD CP-OFDM	QPSK	50	30	Max Power	19.2	69.7%	17.6	-5.81	11.8	25	No	UL-6
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	25	No	UL-1
5G NR Band n70	1695 - 1710	FDD DFT-s-OFDM	$\pi/2$ BPSK	20	15	Max Power	25.7	89.6%	25.2	-5.54	19.7	26	No	UL-1

ANT 3 WLAN

Air-Interface	Frequency Range	Protocol	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
Wi-Fi 2.4 GHz	2402 - 2482	802.11b	DSSS	NA	NA	Max Power	21.5	100%	21.5	-2.02	19.48	25	No	10061
Wi-Fi 2.4 GHz	2402 - 2482	802.11g	DSSS/OFDM	NA	NA	Max Power	21.5	100%	21.5	0.12	21.62	25	No	10077
Wi-Fi 2.4 GHz	2402 - 2482	802.11n	MCS0	NA	NA	Max Power	21.5	100%	21.5	-5.59	15.91	25	No	10591
Wi-Fi 2.4 GHz	2402 - 2482	802.11ax	MCS0	NA	NA	Max Power	21.5	100%	21.5	-5.58	15.92	25	No	10671
Wi-Fi 2.4 GHz	2402 - 2482	802.11be	MCS0	NA	NA	Max Power	21.5	100%	21.5	-5.58	15.92	25	No	10671

ANT 4 WLAN

Air-Interface	Frequency Range	Protocol	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
Wi-Fi 2.4 GHz	2402 - 2482	802.11b	DSSS	NA	NA	Max Power	19.5	100%	19.5	-2.02	17.48	25	No	10061
Wi-Fi 2.4 GHz	2402 - 2482	802.11g	DSSS/OFDM	NA	NA	Max Power	19.5	100%	19.5	0.12	19.62	25	No	10077
Wi-Fi 2.4 GHz	2402 - 2482	802.11n	MCS0	NA	NA	Max Power	19.5	100%	19.5	-5.59	13.91	25	No	10591
Wi-Fi 2.4 GHz	2402 - 2482	802.11ac	MCS0	NA	NA	Max Power	19.5	100%	19.5	-5.56	13.94	25	No	10636*
Wi-Fi 2.4 GHz	2402 - 2482	802.11ax	MCS0	NA	NA	Max Power	19.5	100%	19.5	-5.58	13.92	25	No	10671
Wi-Fi 2.4 GHz	2402 - 2482	802.11be	MCS0	NA	NA	Max Power	19.5	100%	19.5	-5.58	13.92	25	No	10671

ANT 6 WLAN

Air-Interface	Frequency Range	Protocol	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
Wi-Fi U-NII 1	5150 - 5250	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 1	5150 - 5250	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 1	5150 - 5250	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 1	5150 - 5250	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 1	5150 - 5250	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 1	5150 - 5250	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2A	5250 - 5350	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 2A	5250 - 5350	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 2A	5250 - 5350	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 2A	5250 - 5350	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 2A	5250 - 5350	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2A	5250 - 5350	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2C	5470 - 5725	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 2C	5470 - 5725	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 2C	5470 - 5725	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 2C	5470 - 5725	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 2C	5470 - 5725	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2C	5470 - 5725	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 3	5725 - 5825	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 3	5725 - 5825	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 3	5725 - 5825	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 3	5725 - 5825	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 3	5725 - 5825	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 3	5725 - 5825	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 5	5925 - 6000	802.11a/h	OFDM	NA	NA	Max Power	16.0	100%	16.0	-3.15	12.9	25	No	10069
Wi-Fi U-NII 5	5925 - 6000	802.11a	OFDM	NA	NA	Max Power	16.0	100%	16.0	-9.82	6.2	25	No	10317
Wi-Fi U-NII 5	5925 - 6000	802.11ax	MCS0	NA	NA	Max Power	16.0	100%	16.0	-5.58	10.4	25	No	10671
Wi-Fi U-NII 5	5925 - 6000	802.11be	MCS0	NA	NA	Max Power	16.0	100%	16.0	-5.58	10.4	25	No	10671

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Air-Interface	Frequency Range	Protocol	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
Wi-Fi U-NII 1	5150 - 5250	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 1	5150 - 5250	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 1	5150 - 5250	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 1	5150 - 5250	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 1	5150 - 5250	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 1	5150 - 5250	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2A	5250 - 5350	802.11a/h	OFDM	NA	NA	Max Power	20.0	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 2A	5250 - 5350	802.11a	OFDM	NA	NA	Max Power	20.0	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 2A	5250 - 5350	802.11n	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 2A	5250 - 5350	802.11ac	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 2A	5250 - 5350	802.11ax	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2A	5250 - 5350	802.11be	MCS0	NA	NA	Max Power	20.0	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2C	5470 - 5725	802.11a/h	OFDM	NA	NA	Max Power	20.00	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 2C	5470 - 5725	802.11a	OFDM	NA	NA	Max Power	20.00	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 2C	5470 - 5725	802.11n	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 2C	5470 - 5725	802.11ac	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 2C	5470 - 5725	802.11ax	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 2C	5470 - 5725	802.11be	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 3	5725 - 5825	802.11a/h	OFDM	NA	NA	Max Power	20.00	100%	20.0	-3.15	16.9	25	No	10069
Wi-Fi U-NII 3	5725 - 5825	802.11a	OFDM	NA	NA	Max Power	20.00	100%	20.0	-9.82	10.2	25	No	10317
Wi-Fi U-NII 3	5725 - 5825	802.11n	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.59	14.4	25	No	10591
Wi-Fi U-NII 3	5725 - 5825	802.11ac	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.56	14.4	25	No	10636*
Wi-Fi U-NII 3	5725 - 5825	802.11ax	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 3	5725 - 5825	802.11be	MCS0	NA	NA	Max Power	20.00	100%	20.0	-5.58	14.4	25	No	10671
Wi-Fi U-NII 5	5925 - 6000	802.11a/h	OFDM	NA	NA	Max Power	14.0	100%	14.0	-3.15	10.9	25	No	10069
Wi-Fi U-NII 5	5925 - 6000	802.11a	OFDM	NA	NA	Max Power	14.0	100%	14.0	-9.82	4.2	25	No	10317
Wi-Fi U-NII 5	5925 - 6000	802.11ax	MCS0	NA	NA	Max Power	14.0	100%	14.0	-5.58	8.4	25	No	10671
Wi-Fi U-NII 5	5925 - 6000	802.11be	MCS0	NA	NA	Max Power	14.0	100%	14.0	-5.58	8.4	25	No	10671

UL MIMO WWAN

Transmitter	Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Power Mode	Max Output Power (dBm)	Total Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.5	31.6	49.7%	28.6	-4.31	24.3	25	No	UL-7
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7								
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27	30.1	49.4%	27.0	-4.89	22.2	25	No	UL-9
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2								
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7	31.7	49.7%	28.7	-4.31	24.4	25	No	UL-7
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7								
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2	30.2	49.4%	27.1	-4.89	22.3	25	No	UL-9
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2								
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	22.8	29.7	49.7%	26.7	-4.31	22.3	25	No	UL-7
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7								
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	21.3	28.2	49.4%	25.1	-4.89	20.2	25	No	UL-9
ANT 14	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2								
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.5	31.6	49.7%	28.6	-4.31	24.3	25	No	UL-7
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7								
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27	30.1	49.4%	27.0	-4.89	22.2	25	No	UL-9
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2								
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	22.8	29.7	49.7%	26.7	-4.31	22.3	25	No	UL-7
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.7								
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	21.3	28.2	49.4%	25.1	-4.89	20.2	25	No	UL-9
ANT 3	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27.2								
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.5	29.5	49.7%	26.5	-4.31	22.2	25	No	UL-7
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	22.8								
ANT 1	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	27	28.0	49.4%	25.0	-4.89	20.1	25	No	UL-9
ANT 4	5G NR Band n41 UL MIMO PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	Max Power	21.3								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.0	25.1	69.6%	23.6	-5.19	18.4	25	No	UL-4
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	19.5	23.6	69.7%	22.1	-5.81	16.2	25	No	UL-6
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5								
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0	26.0	69.6%	24.4	-5.19	19.2	25	No	UL-4
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0								
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5	24.5	69.7%	22.9	-5.81	17.1	25	No	UL-6
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5								
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.6	25.4	69.6%	23.8	-5.19	18.6	25	No	UL-4
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0								
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	20.1	23.9	69.7%	22.3	-5.81	16.5	25	No	UL-6
ANT 7	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.0	25.1	69.6%	23.6	-5.19	18.4	25	No	UL-4
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	19.5	23.6	69.7%	22.1	-5.81	16.2	25	No	UL-6
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5								
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.6	25.4	69.6%	23.8	-5.19	18.6	25	No	UL-4
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	23.0								
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	20.1	23.9	69.7%	22.3	-5.81	16.5	25	No	UL-6
ANT 9	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	21.5								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.0	24.3	69.6%	22.7	-5.19	17.6	25	No	UL-4
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	21.6								
ANT 4	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	19.5	22.8	69.7%	21.3	-5.81	15.4	25	No	UL-6
ANT 8	5G NR Band n48 UL MIMO PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	Max Power	20.1								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	26.3	30.9	49.7%	27.8	-4.31	23.5	25	No	UL-7
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	24.8	29.4	49.4%	26.3	-4.89	21.4	25	No	UL-9
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5								
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29	32.0	49.7%	29.0	-4.31	24.7	25	No	UL-7
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29								
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5	30.5	49.4%	27.4	-4.89	22.6	25	No	UL-9
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5								
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.1	31.6	49.7%	28.5	-4.31	24.2	25	No	UL-7
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29								
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	26.6	30.1	49.4%	27.0	-4.89	22.1	25	No	UL-9
ANT 7	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	26.3	30.9	49.7%	27.8	-4.31	23.5	25	No	UL-7
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	24.8	29.4	49.4%	26.3	-4.89	21.4	25	No	UL-9
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5								
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.1	31.6	49.7%	28.5	-4.31	24.2	25	No	UL-7
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	29								
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	26.6	30.1	49.4%	27.0	-4.89	22.1	25	No	UL-9
ANT 9	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	27.5								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	26.3	30.3	49.7%	27.3	-4.31	23.0	25	No	UL-7
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD DFT-s-OFDM	11/2 BPSK	50	30	Max Power	28.1								
ANT 4	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	24.8	28.8	49.4%	25.7	-4.89	20.9	25	No	UL-9
ANT 8	5G NR Band n77 UL MIMO PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	Max Power	26.6								

WLAN MIMO

Transmitter	Air-Interface	Frequency Range	Protocol	Modulation	Power Mode	Max Output Power (dBm)	Total Output Power (dBm)	Duty Cycle	Max Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{APL} (dBm)	RF _{APL} Limit (dBm)	HAC Tested	UID
ANT 3	Wi-Fi 2.4 GHz	2402 - 2482	802.11b	DSSS	Max Power	22.0	23.9	100.0%	23.9	-2.02	21.9	25	No	N/A
ANT 4	Wi-Fi 2.4 GHz	2402 - 2482	802.11b	DSSS	Max Power	19.50								
ANT 3	Wi-Fi 2.4 GHz	2402 - 2482	802.11g	DSSS/OFDM	Max Power	22.0	23.9	100.0%	23.9	0.12	24.1	25	No	N/A
ANT 4	Wi-Fi 2.4 GHz	2402 - 2482	802.11g	DSSS/OFDM	Max Power	19.50								
ANT 3	Wi-Fi 2.4 GHz	2402 - 2482	802.11n	MCS0	Max Power	22.0	23.9	100.0%	23.9	-5.59	18.3	25	No	N/A
ANT 4	Wi-Fi 2.4 GHz	2402 - 2482	802.11n	MCS0	Max Power	19.50								
ANT 3	Wi-Fi 2.4 GHz	2402 - 2482	802.11ac	MCS0	Max Power	22.0	23.9	100.0%	23.9	-5.56	18.4	25	No	N/A
ANT 4	Wi-Fi 2.4 GHz	2402 - 2482	802.11ac	MCS0	Max Power	19.50								
ANT 3	Wi-Fi 2.4 GHz	2402 - 2482	802.11ax	MCS0	Max Power	22.0	23.9	100.0%	23.9	-5.58	18.4	25	No	N/A
ANT 4	Wi-Fi 2.4 GHz	2402 - 2482	802.11ax	MCS0	Max Power	19.50								
ANT 6	Wi-Fi U-NII 1	5150 - 5250	802.11a	MCS0	Max Power	24.5	27.3	100.0%	27.3	-9.82	17.4	25	No	N/A
ANT 16	Wi-Fi U-NII 1	5150 - 5250	802.11a	MCS0	Max Power	24.0								
ANT 6	Wi-Fi U-NII 1	5150 - 5250	802.11n	MCS0	Max Power	24.5	27.3	100.0%	27.3	-5.59	21.7	25	No	N/A
ANT 16	Wi-Fi U-NII 1	5150 - 5250	802.11n	MCS0	Max Power	24.0								
ANT 6	Wi-Fi U-NII 1	5150 - 5250	802.11ac	MCS0	Max Power	24.5	27.3	100.0%	27.3	-5.56	21.7	25	No	N/A
ANT 16	Wi-Fi U-NII 1	5150 - 5250	802.11ac	MCS0	Max Power	24.0								
ANT 6	Wi-Fi U-NII 1	5150 - 5250	802.11ax	MCS0	Max Power	24.5	27.3	100.0%	27.3	-5.58	21.7	25	No	N/A
ANT 16	Wi-Fi U-NII 1	5150 - 5250	802.11ax	MCS0	Max Power	24.0								
ANT 6	Wi-Fi U-NII 2A	5250 - 5350	802.11a	MCS0	Max Power	24.5	26.4	100.0%	26.4	-9.82	16.6	25	No	N/A
ANT 16	Wi-Fi U-NII 2A	5250 - 5350	802.11a	MCS0	Max Power	22.0								
ANT 6	Wi-Fi U-NII 2A	5250 - 5350	802.11n	MCS0	Max Power	24.5	26.4	100.0%	26.4	-5.59	20.8	25	No	N/A
ANT 16	Wi-Fi U-NII 2A	5250 - 5350	802.11n	MCS0	Max Power	22.0								
ANT 6	Wi-Fi U-NII 2A	5250 - 5350	802.11ac	MCS0	Max Power	24.5	26.4	100.0%	26.4	-5.56	20.9	25	No	N/A
ANT 16	Wi-Fi U-NII 2A	5250 - 5350	802.11ac	MCS0	Max Power	22.0								
ANT 6	Wi-Fi U-NII 2A	5250 - 5350	802.11ax	MCS0	Max Power	24.5	26.4	100.0%	26.4	-5.58	20.9	25	No	N/A
ANT 16	Wi-Fi U-NII 2A	5250 - 5350	802.11ax	MCS0	Max Power	22.0								
ANT 6	Wi-Fi U-NII 2C	5470 - 5725	802.11a	MCS0	Max Power	25.0	27.0	100.0%	27.0	-9.82	17.2	25	No	N/A
ANT 16	Wi-Fi U-NII 2C	5470 - 5725	802.11a	MCS0	Max Power	22.75								
ANT 6	Wi-Fi U-NII 2C	5470 - 5725	802.11n	MCS0	Max Power	25.0	27.0	100.0%	27.0	-5.59	21.4	25	No	N/A
ANT 16	Wi-Fi U-NII 2C	5470 - 5725	802.11n	MCS0	Max Power	22.75								
ANT 6	Wi-Fi U-NII 2C	5470 - 5725	802.11ac	MCS0	Max Power	25.0	27.0	100.0%	27.0	-5.56	21.5	25	No	N/A
ANT 16	Wi-Fi U-NII 2C	5470 - 5725	802.11ac	MCS0	Max Power	22.75								
ANT 6	Wi-Fi U-NII 2C	5470 - 5725	802.11ax	MCS0	Max Power	25.0	27.0	100.0%	27.0	-5.58	21.4	25	No	N/A
ANT 16	Wi-Fi U-NII 2C	5470 - 5725	802.11ax	MCS0	Max Power	22.75								
ANT 6	Wi-Fi U-NII 3	5725 - 5825	802.11a	MCS0	Max Power	25.0	27.2	100.0%	27.2	-9.82	17.4	25	No	N/A
ANT 16	Wi-Fi U-NII 3	5725 - 5825	802.11a	MCS0	Max Power	23.25								
ANT 6	Wi-Fi U-NII 3	5725 - 5825	802.11n	MCS0	Max Power	25.0	27.2	100.0%	27.2	-5.59	21.6	25	No	N/A
ANT 16	Wi-Fi U-NII 3	5725 - 5825	802.11n	MCS0	Max Power	23.25								
ANT 6	Wi-Fi U-NII 3	5725 - 5825	802.11ac	MCS0	Max Power	25.0	27.2	100.0%	27.2	-5.56	21.7	25	No	N/A
ANT 16	Wi-Fi U-NII 3	5725 - 5825	802.11ac	MCS0	Max Power	23.25								
ANT 6	Wi-Fi U-NII 3	5725 - 5825	802.11ax	MCS0	Max Power	25.0	27.2	100.0%	27.2	-5.58	21.6	25	No	N/A
ANT 16	Wi-Fi U-NII 3	5725 - 5825	802.11ax	MCS0	Max Power	23.25								
ANT 6	Wi-Fi U-NII 5	5925 - 6000	802.11a	MCS0	Max Power	16.0	18.1	100.0%	18.1	-9.82	8.3	25	No	N/A
ANT 16	Wi-Fi U-NII 5	5925 - 6000	802.11a	MCS0	Max Power	14.0								
ANT 6	Wi-Fi U-NII 5	5925 - 6000	802.11ax	MCS0	Max Power	16.0	18.1	100.0%	18.1	-5.58	12.5	25	No	N/A
ANT 16	Wi-Fi U-NII 5	5925 - 6000	802.11ax	MCS0	Max Power	14.0								

11. Evaluation for RF Audio Interference Level (RF_{AIL})

11.1. RF Audio Interference Level (RF_{AIL}) Test Procedure

The following is a summary of the test procedure, taken from §4.5.3 of C63.19-2019:

- Confirm proper operation of the field probe, probe measurement system, spectral and temporal weighting filters, and the positioning system.
- Position the WD in its intended test position. A gauge block, depicted in A.1.2, can simplify this positioning.
- Set the WD to transmit a fixed and repeatable combination of signal power and modulation characteristic that is representative of the worst case (highest interference potential) encountered in normal use. Transiently occurring start-up, changeover, or termination conditions, or other operation likely to occur less than 1% of the time during normal operation, may be excluded from consideration.²
- The measurement area shall be centered on the acoustic output or the T-Coil mode measurement reference point, as appropriate. Locate the field probe at the initial test position in the 50 mm by 50 mm measurement area, which is contained in the measurement plane, described in 4.5.2 and illustrated in Figure A.1. If the field alignment method is used, align the probe for maximum field reception.
- Record the reading at the output of the measurement system.
- Scan the entire 50 mm by 50 mm measurement area in equally spaced step sizes and record the reading at each measurement point. The step size shall meet the specification for step size in 4.5.3.
- Calculate the average of the measurements taken in Step f).³
- Convert the average value found in Step g) to RF audio interference level, in volts per meter, by taking the square root of the reading and then dividing it by the measurement system transfer function, as established in 4.5.3.2.1 pre-test procedure. Convert the result to dB(V/m) by taking the base-10 logarithm and multiplying it by 20. Expressed as a formula:

$$RF \text{ audio interference level in dB(V/m)} = 20 \times \log \left(\frac{R_{ave}^{1/2}}{TF} \right)$$

where R_{ave} is the average reading

- Compare this RF audio interference level to the limits in Table 4.3 below and record the result.
 - Device is compliant if the average near-field emissions over the measurement area is at or below the stated RF_{AIL} (Table 4.3)

Table 4.3 - Wireless device RF audio interference level

Frequency Range (MHz)	RF _{AIL} [dB(V/m)]
≤ 960	39
960 – 2000	36
> 2000	35

Indirect Measurement Method

The measurement procedure using a probe and instrumentation chain with a response of <10 kHz (see 4.5.1) is identical to the direct measurement method of 4.5.3.2.2: however, because of the bandwidth limitations, it cannot include the direct use of the spectral and temporal weighting functions. The output of such measurement systems must be readings of steady state rms field strength in dB(V/m).

Replacing Step h) of 4.5.3.2.2: The RF audio interference level in dB(V/m) is obtained by adding the Modulation Interference Factor (in decibels) to the average steady state rms field strength reading over the measurement area, in dB(V/m), from Step g). Use this result to determine the WD's compliance per §4.7.

² Normally the amount of time a display remains on is a customer defined option. When this is true the display should not be illuminated during the test.

³ Probe anisotropy may add significantly to the measurement uncertainty. This factor may be minimized by first moving the probe to the location of maximum measurement and then rotating the probe to align it for the maximum reading at that position. This rotation around the axis or shaft of the probe is recommended in order to minimize uncertainty due to anisotropy in the probe.

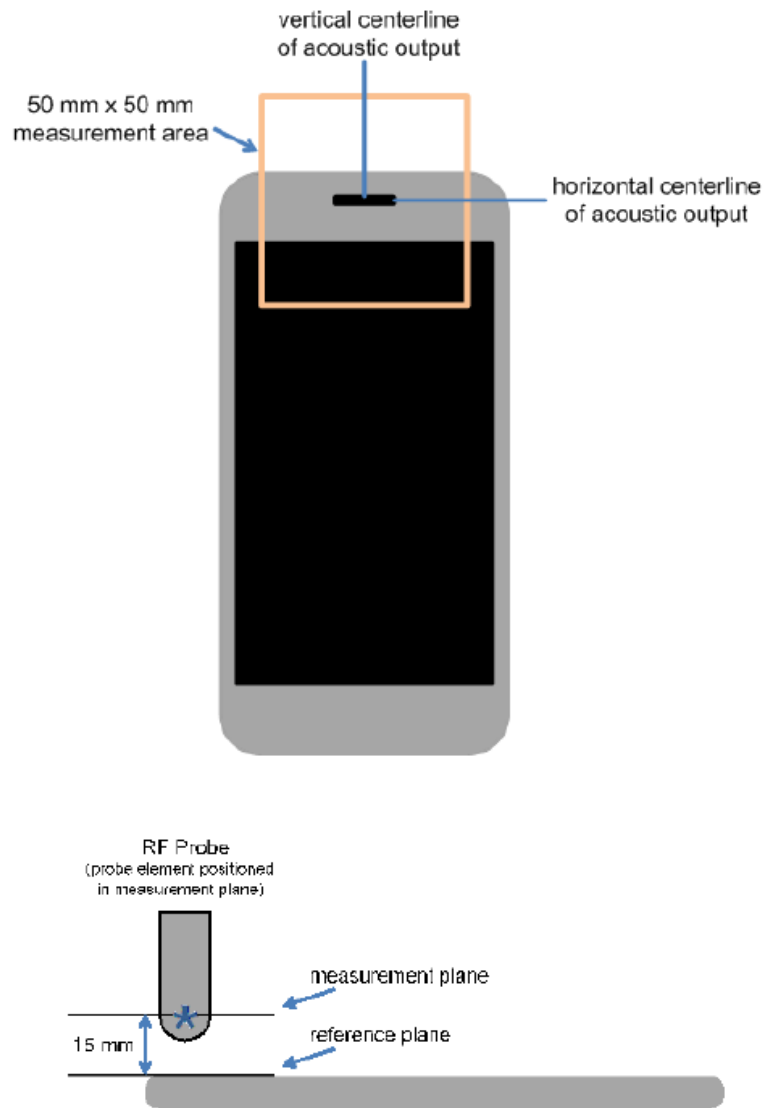
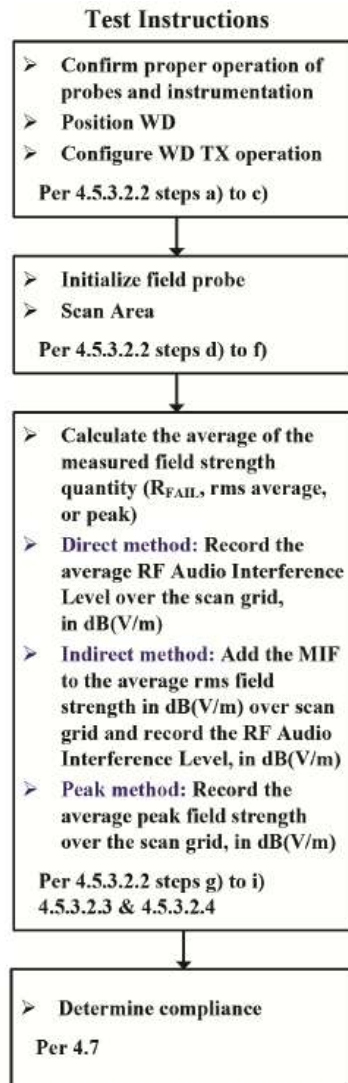


Figure 1 - WD reference and plane for RF emission measurements

Test flowchart Per ANSI-63.19-2019



11.2. RF Audio Interference Level (RF_{AIL}) Measured Results

MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for the following User Identifiers and air interfaces. The data included in this report are for the worst-case operating modes. Refer to §8, Appendix D, G, and H for the MIF values that represent the worst-case operating modes.

For all air interfaces, the maximum held-to-head output power was used for the RF_{AIL} evaluation. The maximum held-to-head output power is Mode A for WWAN and WLAN operating modes.

Antenna	Power Mode	Air-Interface	Ch. No.	Freq. (MHz)	RF _{AIL} (dB V/m)	RF _{AIL} Limit (dBm)	Result	Margin	Plot No.
ANT 14	Mode A	GSM1900 1-Slot	512	1850.2	26.8	36	Pass	9.2	1
			661	1880	28.8	36	Pass	7.2	2
			810	1909.8	28.42	36	Pass	7.58	3
ANT 14	Mode A	GSM1900 2-Slot	512	1850.2	26.8	36	Pass	9.2	4
			661	1880	28.95	36	Pass	7.05	5
			810	1909.8	28.36	36	Pass	7.64	6
ANT 3	Mode A	GSM1900 1-Slot	512	1850.2	18.73	36	Pass	17.27	7
			661	1880	18.47	36	Pass	17.53	8
			810	1909.8	18.41	36	Pass	17.59	9

Conclusion

Measured RF_{AIL} results are below RF_{AIL} limits, therefore is compliant to RF_{AIL} requirements.

11.3. Worst Case RF_{AIL} Test Plot

UL Verification Services Inc. SAR Lab 16 Date/Time: May 30, 2026 at 20:40

PCS-1900-RF-Interference-Potential-Test-Report

Hardware-Setup

Probe-Calibration-Date EF3DV3--SN4041-March-04, 2026
DAE-Calibration-Date DAE4ip-Sn1621-April-10, 2026
Software-Version 1.2.6.2199

Communication-Systems

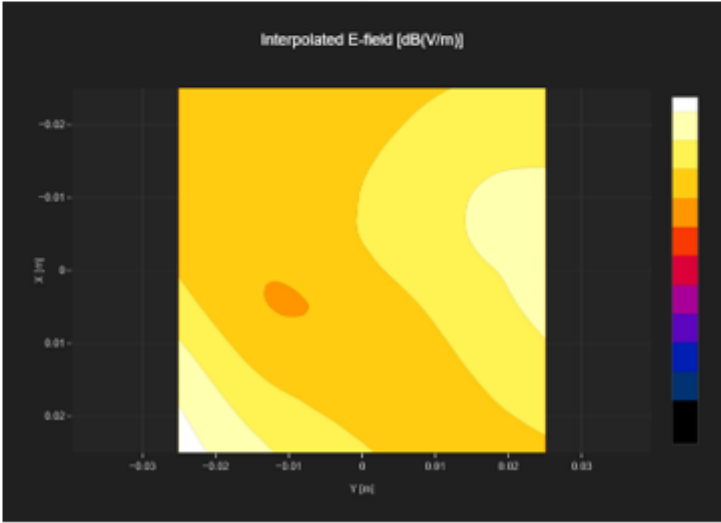
MIF 1.15
Channel-Frequency-MHz 661-1880.0
Communication-Systems-Name GPRS-FDD-(TDMA,-GMSK,-TN-0-1)

Grid-Settings

Extent-X-mm 50.0 Step-X-mm 10.0
Extent-Y-mm 50.0 Step-Y-mm 10.0
Distance-mm 15.0

Results

E_{max} 31.91 E_{avg-50x50-Max} 27.8
[dBV/m] [dBV/m]
Drift-dB -0.31 RFail-dB 28.95



Appendixes

Refer to separated files for the following appendices

Appendix A: RF-E Setup Photo

Appendix B: RF-E System Validation Plots

Appendix C: RF-E Test Plots

Appendix D: RF-E MIF Attestation Letter

Appendix E: RF-E Probe Certificates

Appendix F: RF-E Dipole Certificates

Appendix G: RF-E UID Specifications

Appendix H: RF-E MIF Measurements

END OF REPORT