

TEST REPORT

Report Number: 15496282-E6V4

Applicant: APPLE INC.

1 APPLE PARK WAY

CUPERTINO, CA 95014, U.S. A

Model: A3260 (Parent)

A3516, A3517, A3518 (Variants)

Brand: APPLE

FCC ID: BCG-E8948A(Parent)

BCG-E8954A, BCG-E8955A, BCG-E8956A (Variants)

IC: 579C-E8948A (Parent)

579C-E8954A, 579C-E8955A, 579C-E8956A (Variants)

EUT Description: Smartphone

Test Standard(s): FCC 47 CFR PART 15 SUBPART E

ISED RSS-247 ISSUE 3

ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:

2025-08-21

Prepared by:

UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538 U.S.A. TEL: (510) 319-4000

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REPORT NO: 15496282-E6V4 DATE: 2025-08-21

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-07-03	Initial Issue	
V2	2025-07-09	Addressed TCB feedback Sections 6, 10, 11	Glenn Escano
V3	2025-07-30	Updated Data in section 10.1.2	Francisco Guarnero
V4	2025-08-21	Fix main model number	Francisco Guarnero

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REPORT NO: 15496282-E6V4 DATE: 2025-08-21

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.

1 APPLE PARK WAY

CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: SMARTPHONE

MODEL: A3260 (Parent)

A3516, A3517, A3518 (Variants)

BRAND: APPLE

SERIAL NUMBER: JJ9TWWRN60 (RADIATED)

C07HCB0003S0000Y (CONDUCTED)

SAMPLE RECEIPT DATE: 2025-02-28

DATE TESTED: 2025-03-11 to 2025-07-30

APPLICABLE STANDARDS						
STANDARD	TEST RESULTS					
CFR 47 Part 15 Subpart E	Complies					
ISED RSS-247 Issue 3	Complies					
ISED RSS-GEN Issue 5 + A1 + A2	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.

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.

Approved & Released For UL Verification Services Inc. By:

horise de avola

Francisco de Anda Senior Lab Engineer Consumer Technology Division UL Verification Services Inc. Prepared By:

Francisco Guarnero Senior Test Engineer Consumer Technology Division UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

- 1. Antenna gain and type (see section 6.3)
- 2. Cable loss (see section 6.3)

Identify any other data provided by the customer and indicate the section number where the data is located

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	RSS-GEN 6.7	26dB BW/99% OBW	Reporting purposes only	Per ANSI C63.10 Sections 6.9.2 and 6.9.3
15.407 (e)	RSS-247 6.2.4.2	6 dB BW		None.
15.407 (a) (1-4), (h) (1)	RSS-247 6.2	Output Power	complies	None.
15.407 (a) (1-3, 5)	RSS-247 6.2	PSD	complies	None.
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2	Radiated Emissions	complies	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	complies	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- FCC 47 CFR Part 2
- FCC CFR 47 Part 15
- FCC KDB 414788 D01 Radiated Test Site
- FCC KDB 484596 D01 Referencing Test Data
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- RSS-GEN Issue 5 + A1 +A2
- RSS-247 Issue 3

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA			
×	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
×	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
\boxtimes	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA]		

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not considered when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{LAB}
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	1.3 (Peak), 0.45 (Ave)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.2%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) +
LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, IEEE 802.11a/b/g/n/ac/ax/be/az/bf, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.8 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)				
5.8GHz Band 1TX, h	5.8GHz Band 1TX, high power						
5728.75 – 5846.25	802.15.4ab	20.49	111.94				
5.8GHz Band 1TX Low Power							
5728.75 – 5846.25	802.15.4ab	15.99	39.72				

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna gain and type, as provided by the manufacturers, are as follows: The radio utilizes Cable loss is 2.85 dB.

Frequency Range	ANT 6 (Core 0)
5728.75 – 5846.25	1.7

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was Luck23A256.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that Z (Portrait) orientation was the worst-case orientation for Ant 6.

There are three indices on this 802.15.4ab technology, with data rates of 250 Kbps on index 1, 500 Kbps on index 2, and 1000 Kbps on index 3. All data rates were investigated, and the worst case was determined based on the highest power on PSD and Index 1, with 250 Kbps being the worst case.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

Simultaneous transmission with the Bluetooth was investigated, and no noticeable emission was found.

For radiated bandedge and emssions spurious, 250Kbps is set as the worst-case data rates for final test

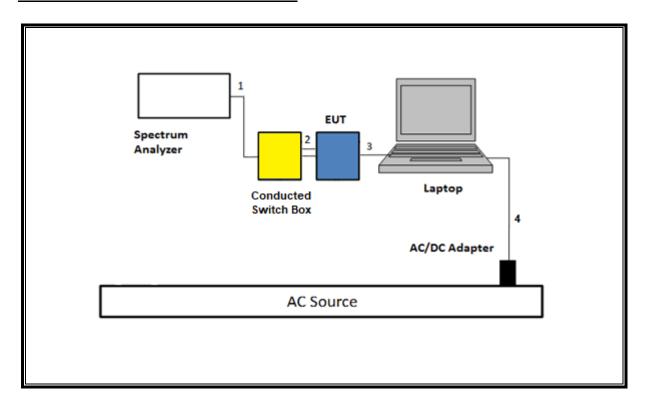
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT								
D	Description Manufacturer Model Serial Number		FCC ID/ DoC					
	Laptop	Apple	Macbook Pro	C02VD7SA	AHV22	BCGA1708		
Laptop	AC/DC adapter	Liteon Technology	A1424	NSW25679		NSW25679		DoC
EUT /	AC/DC adapter	Apple	A1720	C3D8417A7R	93KVPA8	DoC		
Condu	cted Switch Box	UL	n/a	20828	31	N/A		
		I/O CAE	BLES (RF CONDUC	TED TEST)				
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks		
1	SMA	1	SMA	Shielded	0.75	To spectrum Analyzer		
2	Antenna	2	SMA	Shielded 0.2		To Conducted Switch Box		
3	USB	1	USB-C	Shielded	1.0	N/A		
4	DC	1	DC	Shielded	2	N/A		
	I/O	CABLES (RF RAI	DIATED AND AC LI	NE CONDUCTED T	EST)			
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks		
1	DC	1	DC	Shielded	2	N/A		
2	USB	1	USB-C	Shielded	1	N/A		

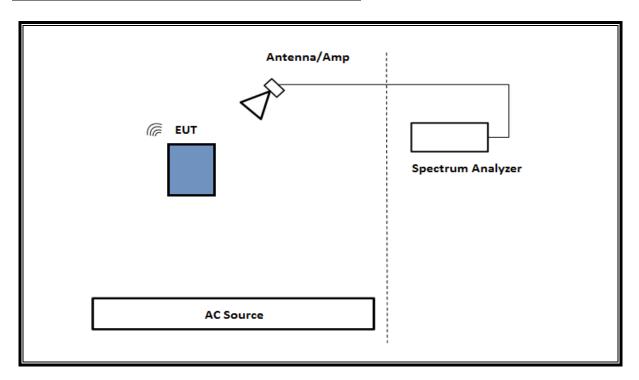
TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

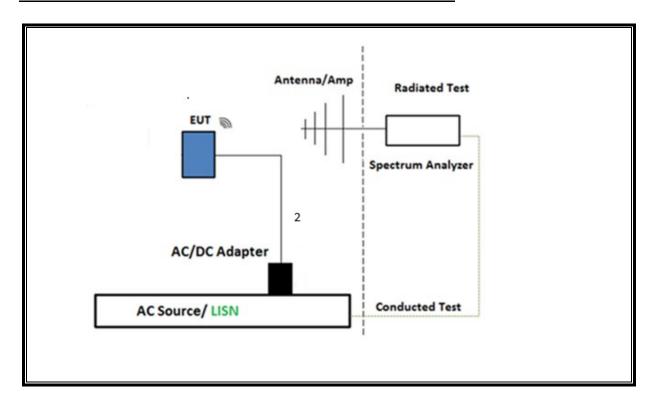
SETUP DIAGRAM FOR CONDUCTED TESTS



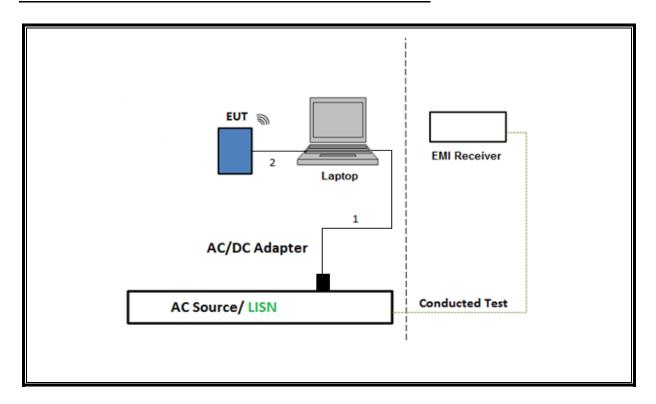
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz



SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



REPORT NO: 15496282-E6V4 DATE: 2025-08-21

7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01

Power Spectral Density: KDB 789033 D02 v02r01, Section F

<u>Unwanted emissions in restricted bands</u>: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

<u>Unwanted emissions in non-restricted bands</u>: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2020 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST							
Description	Manufacturer	Model	ID Num	Cal Due			
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200897	2026/04/30			
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026/01/31			
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225688	2026/02/28			
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206808	2026/04/30			
RF Filter Box, 1-18GHz, 8 Port	UL-FR1	SAC 8 port rf box 1	197920	2026/03/31			
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026/02/28			
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	84796	2026/04/30			
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	230878	2026/01/31			
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2026/02/28			
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	202301	2026/08/31			
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	79584	2026/01/31			
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235266	2026/02/28			
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	81887	2027/3/31			
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225575	2026/1/31			
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2026/2/28			
Antenna, Horn 18-26.5GHz	A.R.A	MWH-1826/B	81140	*2025/03/21			
Link File, RF Amplifier Assembly, 18- 26.5GHz, 60dB Gain	Amplical	AMP18G26.5-60	236106	*2025/04/18			
Antenna, Horn 26.5-40GHz	A.R.A	MWH-2640/B	230656	*2025/03/31			
Link File, RF Amplifier Assembly, 26.5-40GHz, 65dB Gain	Amplical	AMP26G40-65	236107	*2025/04/17			
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	170014	2025/08/31			
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	170016	2025/08/31			
DC Power Supply	TDK-LAMBDA	GEN 60-25	PRE0074756	N/A			
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	90238	2025/07/31			
Conducted Switch Box	UL-FR1	CSB	235778	*2025/05/31			
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90715	2026/01/31			
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	81319	2026/01/31			

AC Line Conducted							
Description	Manufactu	Manufacturer		el	ID Num	Cal Due	
EMI Test Receiver 9kHz-7GHz	z Rohde & Sch	warz	ESF	₹	171646	2026/02/28	
LISN for Conducted Emissions CISPR-16		FISCHER CUSTOM COMMUNICATIONS		SN- 25-2- 0V	175765	2026/01/31	
Transient Limiter	TE	TE		_1	207996	2025/09/30	
UL AUTOMATION SOFTWARE							
Radiated Software	UL	UL EMC			Ver 9.5, May 1, 2023		
Conducted Software UL		UL	EMC 2020.8.16		6		
AC Line Conducted Software UL		UL	EMC Ver 9.5, Mar 3, 2023		3, 2023		

^{*}Testing is completed before equipment calibration expiration date.

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9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

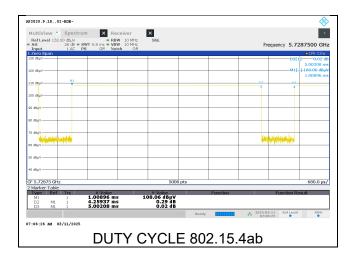
PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

						1/T
	Т		x	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
802.15.4ab						
5728.75MHz 250kbps	4.259	5.002	0.852	85.15%	0.70	0.235

DUTY CYCLE PLOTS



DATE: 2025-08-21

9.2. 99% AND 26 dB BANDWIDTH

LIMITS

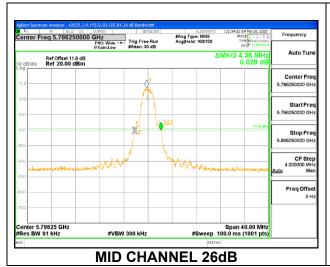
None; for reporting purposes only.

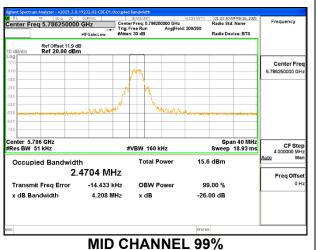
RESULTS

Only the High-Power modes result is reported, it covers all Low Power modes. Only Mid channel plot is reported to show setting parameter complied with the testing method/procedure.

1TX Antenna 6 MODE

Channel	Frequency	26dB Bandwidth	99% Bandwidth
	/N/ILI→\	/N/I → \	/N.4.L.→.\
	(MHz)	(MHz)	(MHz)
Low	5728.75	4.120	2.4546
Mid	5786.25	4.360	2.4704
High	5846.25	4.440	2.5029





9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.2

The minimum 6 dB bandwidth shall be at least 500 kHz.

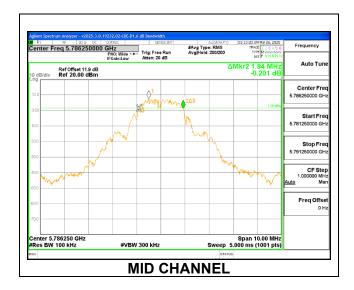
RESULTS

Only the High-Power modes result is reported, it covers all Low-power modes

Only Mid channel plot is reported to show setting parameter complies with the testing method/procedure.

1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5728.75	1.860	0.5
Mid	5786.25	1.840	0.5
High	5846.25	1.870	0.5



DATE: 2025-08-21

9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02, Section E.3 b. Method PM-G.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

Only Mid channel plot is reported to show setting parameter complies with testing method/procedure.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

9.4.1. HIGH POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	106046
Test Date:	06/21/2025

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	1.70	30.00	30.00
Mid	5786.25	1.70	30.00	30.00
High	5846.25	1.70	30.00	30.00

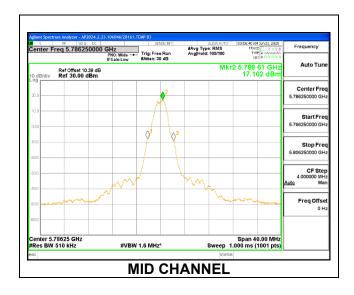
Duty Cycle CF (dB)	0.70	Included in Calculations of Corr'd PSD

Output Power Results

Output: On	Output i Ower Researce						
Channel	Frequency	Antenna 6	Total	Power	Power		
		Meas	Corr'd	Limit	Margin		
		Power	Power				
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)		
Low	5728.75	20.48	20.48	30.00	-9.52		
Mid	5786.25	20.49	20.49	30.00	-9.51		
High	5846.25	20.45	20.45	30.00	-9.55		

PSD Results

PSD Result	5				
Channel	Frequency	Antenna 6	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm/500KHz)	(dBm/500KHz)	(dBm/500KHz)	(dB)
Low	5728.75	16.905	17.605	30.00	-12.40
Mid	5786.25	17.102	17.802	30.00	-12.20
Hiah	5846.25	19.010	19.710	30.00	-10.29



9.4.2. LOW POWER

1TX Antenna 6 MODE (FCC+IC)

Test Engineer:	106046
Test Date:	06/21/2025

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/500KHz)
Low	5728.75	1.70	30.00	30.00
Mid	5786.25	1.70	30.00	30.00
High	5846.25	1.70	30.00	30.00

Duty Cycle CF (dB)	0.70	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency	Antenna 6 Meas	Total Corr'd	Power Limit	Power Margin
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low	5728.75	15.99	15.99	30.00	-14.01
Mid	5786.25	15.92	15.92	30.00	-14.08
High	5846.25	15.85	15.85	30.00	-14.15

PSD Results

I OD IXCOUR	3				
Channel	Frequency	Antenna 6	Total	PSD	PSD
		Meas	Corr'd	Limit	Margin
		PSD	PSD		
	(MHz)	(dBm/500KHz)	(dBm/500KHz)	(dBm/500KHz)	(dB)
Low	5728.75	12.550	13.250	30.00	-16.75
Mid	5786.25	12.967	13.667	30.00	-16.33
High	5846.25	14.544	15.244	30.00	-14.76



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restriced bands FCC §15.407(b)(1-3) -Un-Restriced bands RSS 247 Issue 3 Section 6.2.4.3 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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For below 30MHz testing, the investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y - 51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

RESULTS

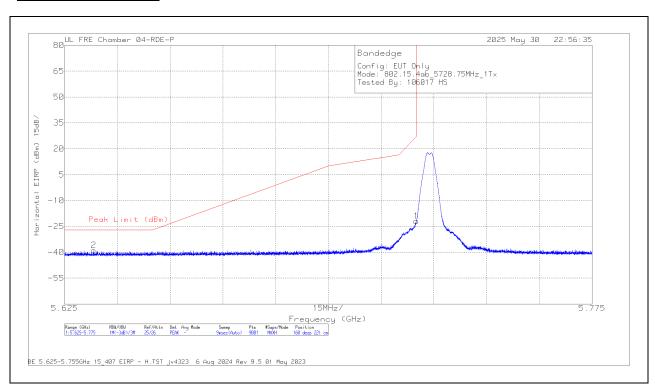
DATE: 2025-08-21

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. ANT 6, 250Kbps, HIGH POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

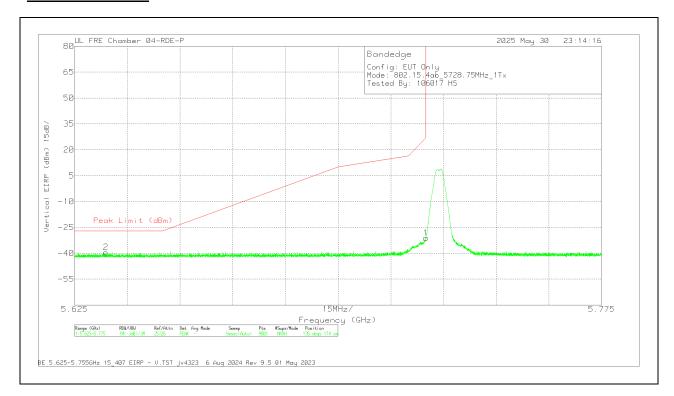
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-30.19	Pk	34.5	11.8	-38.06	-21.95	27	-48.95	160	221	H
2	5.6333	-46.68	Pk	34.4	11.8	-38.37	-38.85	-27	-11.85	160	221	Н

Pk - Peak detector

VERTICAL RESULT

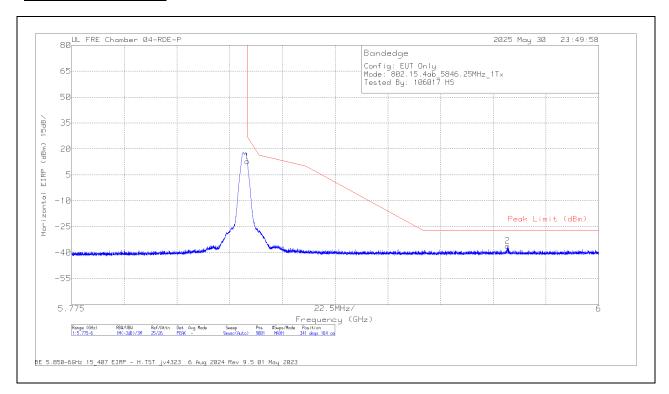


	Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
ſ	1	5.725	-39.39	Pk	34.5	11.8	0	-38.06	-31.15	27	-58.15	135	174	V
ſ	2	5.6339	-47.27	Pk	34.4	11.8	0	-38.38	-39.45	-27	-12.45	135	174	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

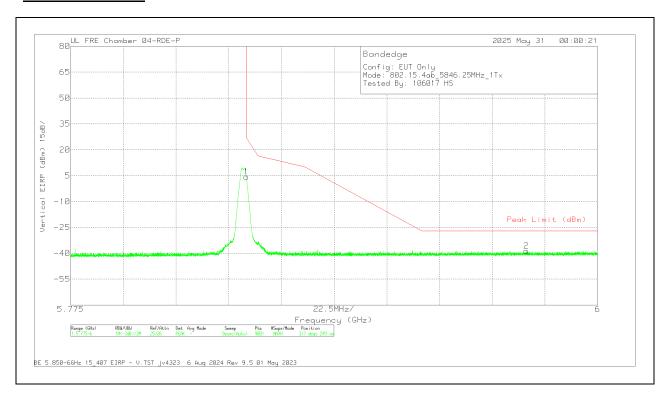
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	3.61	Pk	34.9	11.8	0	-37.56	12.75	27	-14.25	341	164	Н
2	5 961125	-45.86	Pk	35.2	11.8	0	-37 23	-36 09	-27	-9 09	341	164	Н

Pk - Peak detector

VERTICAL RESULT

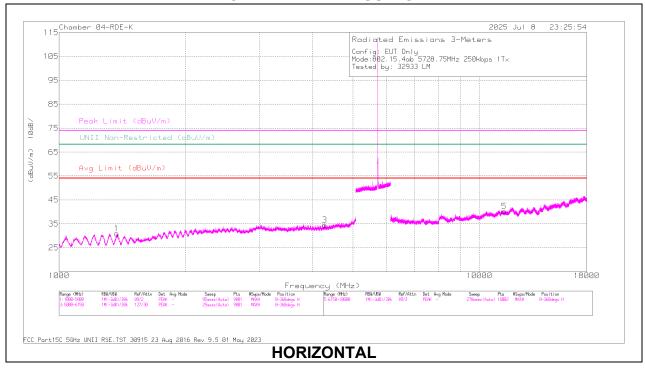


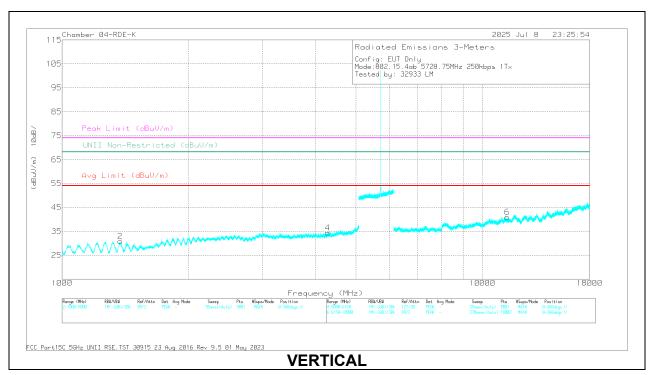
	Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	1	5.85	-4.79	Pk	34.9	11.8	0	-37.56	4.35	27	-22.65	317	249	V
Г	2	5.969575	-48.35	Pk	35.2	11.8	0	-37.22	-38.57	-27	-11.57	317	249	V

Pk - Peak detector

10.1.2. ANT 6, 250Kbps HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



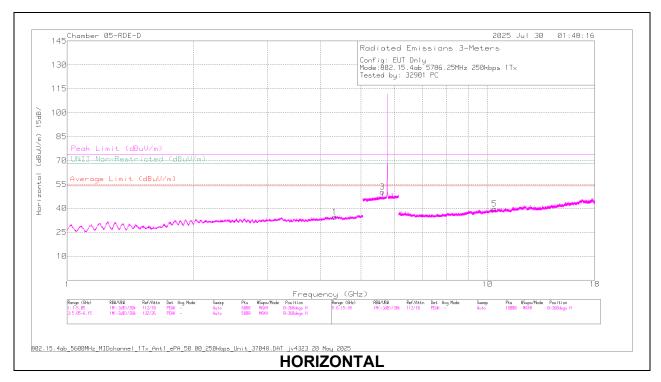


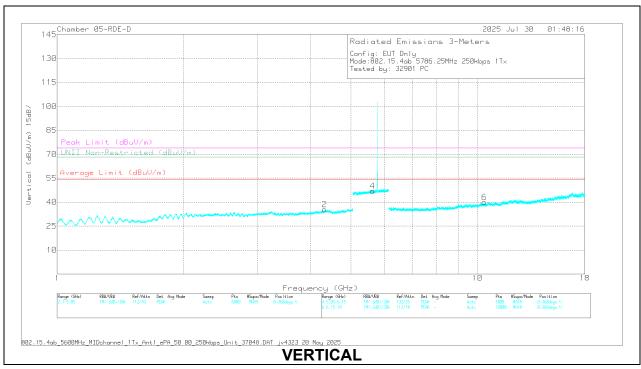
RADIATED EMISSIONS

Marker	Frequency	Meter	Det	206808 ACF	Amp/Cbl/Fltr	DCCF	Corrected	Avg Limit	Margin	Peak	PK	UNII Non-	PK	Azimuth	Height	Polarity
	(MHz)	Reading		(dB/m)	(dB)	(dB)	Reading	(dBuV/m)	(dB)	Limit	Margin	Restricted	Margin	(Degs)	(cm)	
		(dBuV)					(dBuV/m)			(dBuV/m)	(dB)	(dBuV/m)	(dB)			
1	* 1372.218	58.36	PK-U	28.4	-46	0	40.76	-	-	74	-33.24	-	-	245	229	Н
	* 1371.579	46.6	ADR	28.4	-46	.7	29.7	54	-24.3	-	•	-	-	245	229	Н
2	* 1374.034	58.41	PK-U	28.4	-46	0	40.81	-	-	74	-33.19	-	-	69	108	V
	* 1373.901	46.47	ADR	28.4	-46	.7	29.57	54	-24.43	-	-	-	-	69	108	V
3	* 4283.719	52.41	PK-U	33.6	-41.3	0	44.71	-	-	74	-29.29	-	-	46	215	Н
	* 4284.605	40.43	ADR	33.6	-41.3	.7	33.43	54	-20.57	-	-	-	-	46	215	Н
4	* 4282.339	52.37	PK-U	33.6	-41.3	0	44.67	-	-	74	-29.33	-	-	347	241	V
	* 4283.627	40.36	ADR	33.6	-41.3	.7	33.36	54	-20.64	-	-	-	-	347	241	V
5	* 11458.163	46.66	PK-U	38.1	-35.9	0	48.86	-	-	74	-25.14	-	-	222	156	Н
	* 11456.782	34.88	ADR	38.1	-35.9	.7	37.78	54	-16.22	-	-	-	-	222	156	Н
6	* 11454.894	46.81	PK-U	38.1	-35.9	0	49.01	-	-	74	-24.99	-	-	226	148	V
	* 11453.136	35.05	ADR	38.1	-35.8	.7	38.05	54	-15.95	-	-	-	-	226	148	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



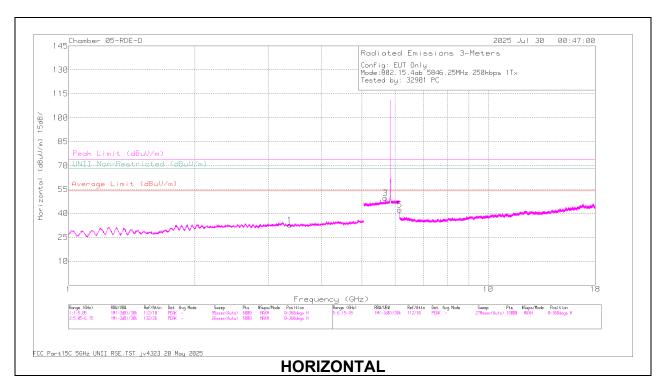


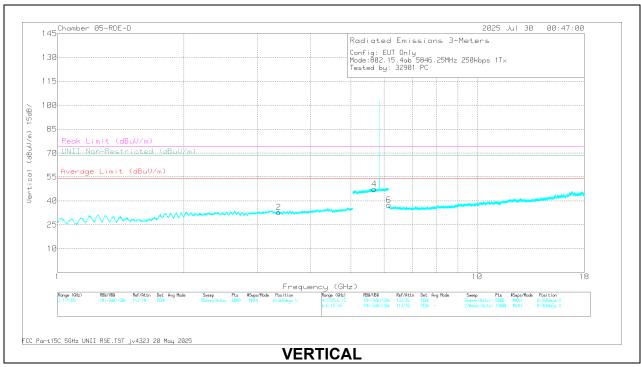
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non- Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.328409	58.43	PK-U	34.2	0	-47.75	44.88	-	-	74	-29.12	-	-	360	199	Н
	*4.33015	46.64	ADR	34.2	0.7	-47.77	33.77	54	-20.23	-		-	-	360	199	Н
2	*4.333169	58.22	PK-U	34.3	0	-47.8	44.72	-		74	-29.28	-	-	360	101	V
	*4.334955	46.74	ADR	34.3	0.7	-47.82	33.92	54	-20.08	-	-	-		360	101	V
3	5.625419	61.89	PK-U	35	0	-38.46	58.43	-	-	-	-	68.2	-9.77	189	160	Н
4	5.624328	60.73	PK-U	35	0	-38.45	57.28	-	-	-		68.2	-10.92	189	200	V
5	10.38746	58.43	PK-U	37.5	0	-46.58	49.35	-		-		68.2	-18.85	189	200	Н
6	10.39632	58	PK-U	37.5	0	-46.52	48.98	-	-	-	-	68.2	-19.22	189	200	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS





RADIATED EMISSIONS

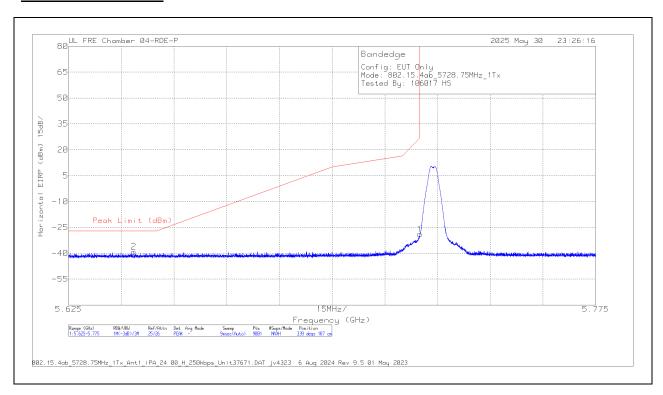
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Limit	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non- Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.367542	57.97	PK-U	32.9	0	-47.6	43.27	-	-	-	-	68.2	-24.93	360	101	Н
2	3.366232	58.19	PK-U	32.9	0	-47.57	43.52	-	-	-	-	68.2	-24.68	360	101	V
3	5.693217	61.77	PK-U	35	0	-38.28	58.49	-	-	-	-	68.2	-9.71	201	132	Н
4	5.692498	59.66	PK-U	35	0	-38.28	56.38	-	-	-	-	68.2	-11.82	201	200	V
5	6.153175	61.55	PK-U	35.4	0	-45.96	50.99	-	-	-	-	68.2	-17.21	242	170	Н
6	6.153258	57.58	PK-U	35.4	0	-45.96	47.02	-	-	-	-	68.2	-21.18	242	200	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

10.1.3. ANT 6, 250Kbps, LOW POWER BAND EDGE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

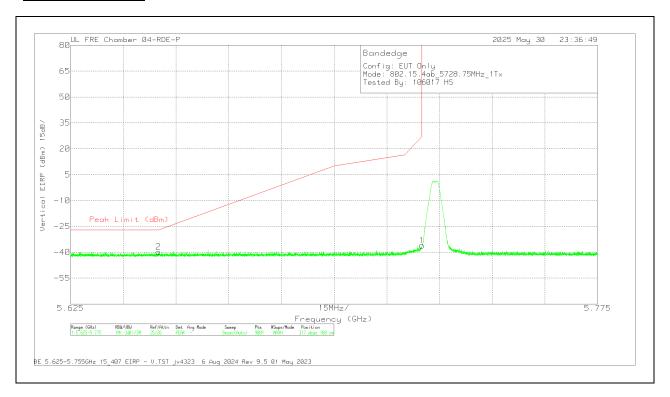
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-37.17	Pk	34.5	11.8	0	-38.06	-28.93	27	-55.93	339	187	Н
2	5.6436	-46.87	Pk	34.4	11.8	0	-38.39	-39.06	-27	-12.06	339	187	Н

Pk - Peak detector

VERTICAL RESULT

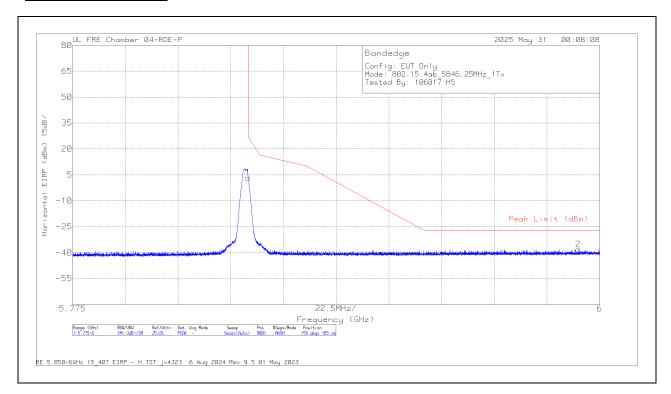


Mar	rker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1	5.725	-44.31	Pk	34.5	11.8	0	-38.06	-36.07	27	-63.07	317	180	V
2	2	5.650017	-47.65	Pk	34.4	11.8	0	-38.35	-39.8	-26.99	-12.81	317	180	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

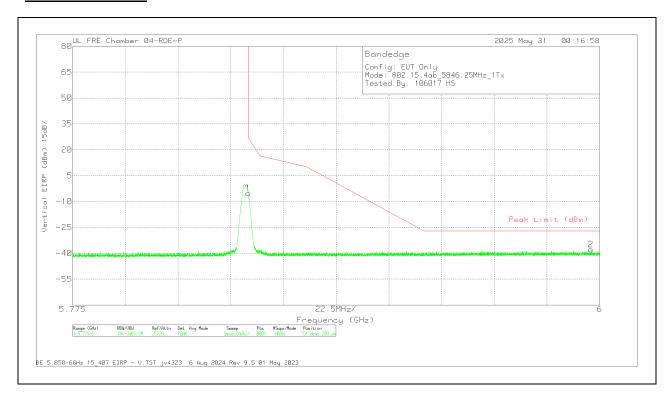
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-5.76	Pk	34.9	11.8	0	-37.56	3.38	27	-23.62	159	185	Н
2	5 99085	-48 14	Pk	35.3	11.8	0	-37.11	-38.15	-27	-11 15	159	185	Н

Pk - Peak detector

VERTICAL RESULT

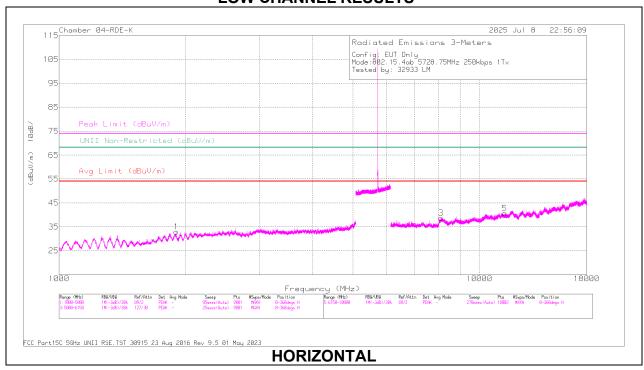


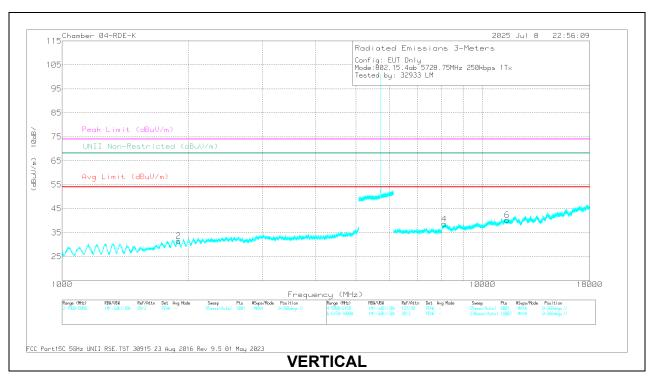
	Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200897 ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
ı	1	5.85	-14.28	Pk	34.9	11.8	0	-37.56	-5.14	27	-32.14	151	290	V
ſ	2	5.996275	-47.84	Pk	35.3	11.8	0	-37.08	-37.82	-27	-10.82	151	290	V

Pk - Peak detector

10.1.4. ANT 6, 250Kbps LOW POWER HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



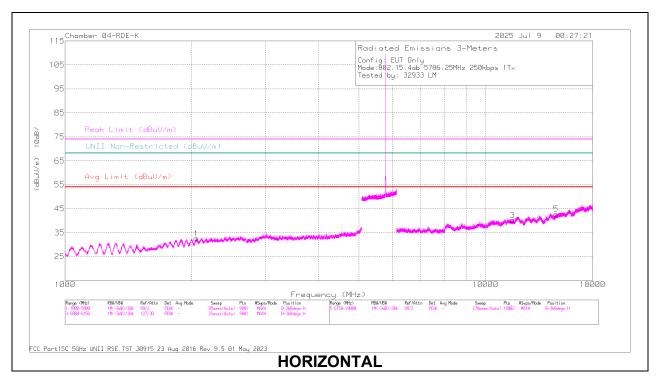


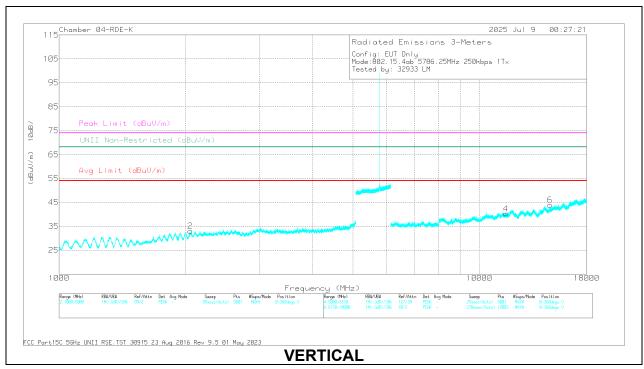
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading	Det	206808 ACF (dB/m)	Amp/Cbl/Fltr	DCCF (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin	UNII Non- Restricted	PK Margin	Azimuth	Height	Polarity
	(WITZ)	(dBuV)		(ub/iii)	(dB)	(ub)	(dBuV/m)	(ubuv/iii)	(ub)	(ubuv/iii)	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
1	1897.314	56.07	PK-U	30.8	-45.2	0	41.67	-	-	-	-	68.2	-26.53	17	200	Н
2	1892.033	57.1	PK-U	30.8	-45.3	0	42.6	-	-	-	-	68.2	-25.6	110	118	V
3	* 8108.981	49.49	PK-U	35.9	-37.3	0	48.09	-	-	74	-25.91	-		227	169	Н
	* 8105.376	37.94	ADR	35.9	-37.3	.7	37.24	54	-16.76	-	-	-	-	227	169	Н
4	* 8120.233	49.32	PK-U	35.9	-37.4	0	47.82	-	-	74	-26.18	-		234	171	V
	* 8122.148	38.03	ADR	35.9	-37.4	.7	37.23	54	-16.77	-	-	-	-	234	171	V
5	* 11478.397	46.55	PK-U	38.1	-35.9	0	48.75	-	-	74	-25.25	-		85	202	Н
	* 11480.875	34.99	ADR	38.1	-35.9	.7	37.89	54	-16.11	-	-	-	-	85	202	Н
6	* 11465.804	46.42	PK-U	38.1	-35.9	0	48.62	-	-	74	-25.38	-	-	335	176	V
	* 11467.723	35.08	ADR	38.1	-35.9	.7	37.98	54	-16.02	-	-	-	-	335	176	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS





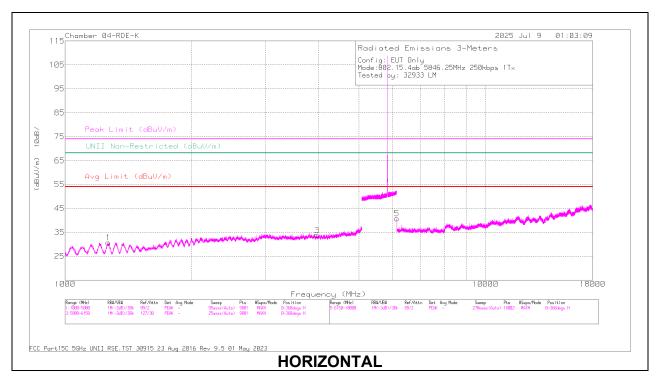
RADIATED EMISSIONS

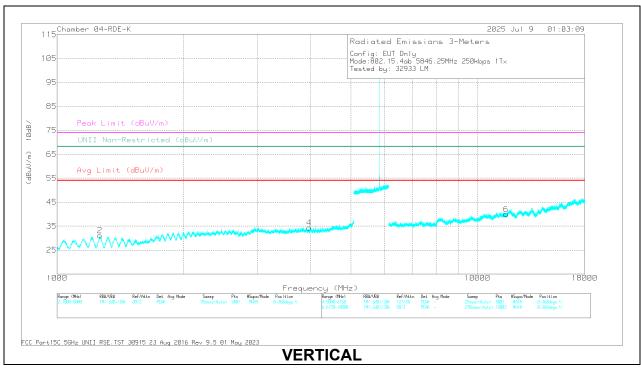
Marker	Frequency	Meter	Det	206808 ACF	Amp/Cbl/Fltr	DCCF	Corrected	Avg Limit	Margin	Peak Limit	PK	UNII Non-	PK	Azimuth	Height	Polarity
	(MHz)	Reading		(dB/m)	(dB)	(dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	Margin	Restricted	Margin	(Degs)	(cm)	
		(dBuV)					(dBuV/m)				(dB)	(dBuV/m)	(dB)			
1	2053.568	56.75	PK-U	31.4	-45.4	0	42.75	-	-	-	-	68.2	-25.45	118	194	Н
2	2053.385	57.08	PK-U	31.4	-45.4	0	43.08	-		-	-	68.2	-25.12	144	161	V
3	* 11589.941	47.01	PK-U	38.2	-35.6	0	49.61	-	-	74	-24.39	-	-	339	232	Н
	* 11588.895	35.17	ADR	38.2	-35.6	.7	38.47	54	-15.53	-	-	-	-	339	232	Н
4	* 11564.169	47.08	PK-U	38.2	-35.7	0	49.58	-	-	74	-24.42	-	-	161	180	V
	* 11564.479	35.4	ADR	38.2	-35.7	.7	38.6	54	-15.4	-	-	-	-	161	180	V
5	14727.73	46.24	PK-U	39.5	-33.9	0	51.84	-		-	-	68.2	-16.36	294	218	Н
6	14711.206	45.94	PK-U	39.5	-33.7	0	51.74		-	-	-	68.2	-16.46	312	154	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



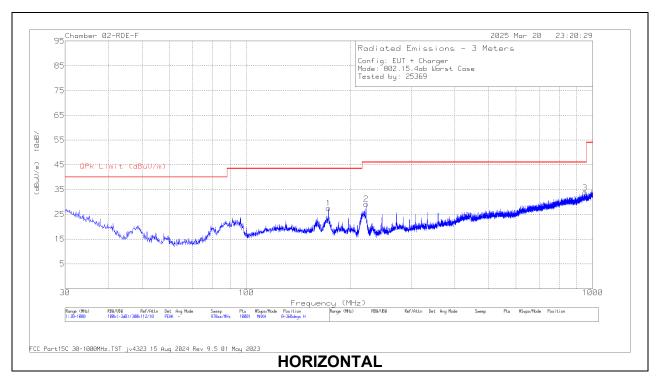


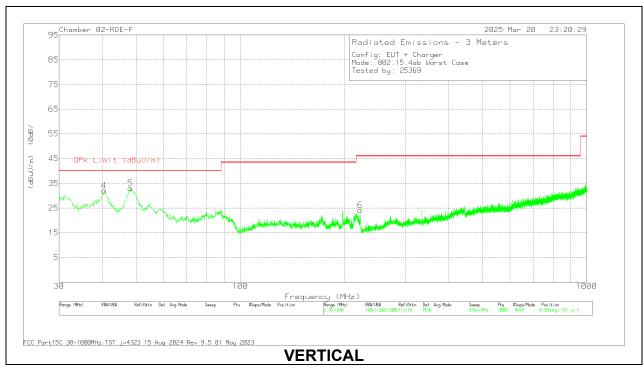
RADIATED EMISSIONS

Marker	Frequency	Meter	Det	206808 ACF	Amp/Cbl/Fltr	DCCF	Corrected	Avg Limit	Margin	Peak Limit	PK	UNII Non-	PK	Azimuth	Height	Polarity
	(MHz)	Reading		(dB/m)	(dB)	(dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	Margin	Restricted	Margin	(Degs)	(cm)	
		(dBuV)					(dBuV/m)				(dB)	(dBuV/m)	(dB)			
1	* 1264.533	58.17	PK-U	28.9	-46.2	0	40.87	-	-	74	-33.13	-		355	101	Н
	* 1264.247	46.48	ADR	28.9	-46.2	.7	29.88	54	-24.12	-	-	-	-	355	101	Н
2	* 1265.043	57.73	PK-U	28.9	-46.2	0	40.43	-	-	74	-33.57	-		37	116	V
	* 1264.59	46.53	ADR	28.9	-46.2	.7	29.93	54	-24.07	-	-	-	-	37	116	V
3	* 3973.86	51.6	PK-U	33.5	-41.4	0	43.7	-	-	74	-30.3	-	-	318	236	Н
	* 3976.96	40.24	ADR	33.5	-41.4	.7	33.04	54	-20.96	-	-	-	-	318	236	Н
4	* 3978.871	52.22	PK-U	33.5	-41.3	0	44.42	-	-	74	-29.58	-		90	134	V
	* 3978.805	39.92	ADR	33.5	-41.3	.7	32.82	54	-21.18	-	-	-	-	90	134	V
5	6156.274	53.03	PK-U	35.4	-38.4	0	50.03	-	-	-	-	68.2	-18.17	245	271	Н
6	* 11698.757	47.15	PK-U	38.4	-35.5	0	50.05	-	-	74	-23.95	-	-	182	194	V
	* 11696.771	35.32	ADR	38.4	-35.5	.7	38.92	54	-15.08	-	-	-	-	182	194	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

10.2. WORST CASE BELOW 1 GHz





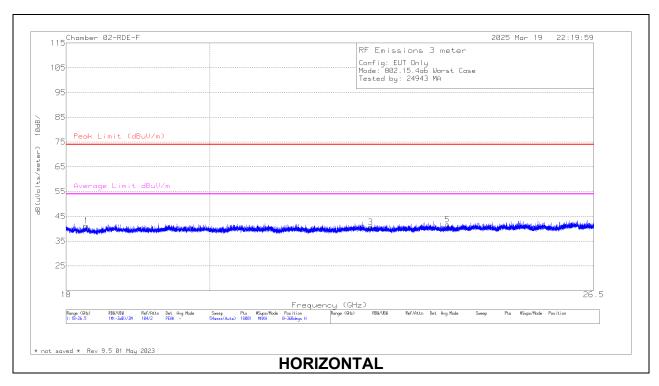
REPORT NO: 15496282-E6V4 DATE: 2025-08-21

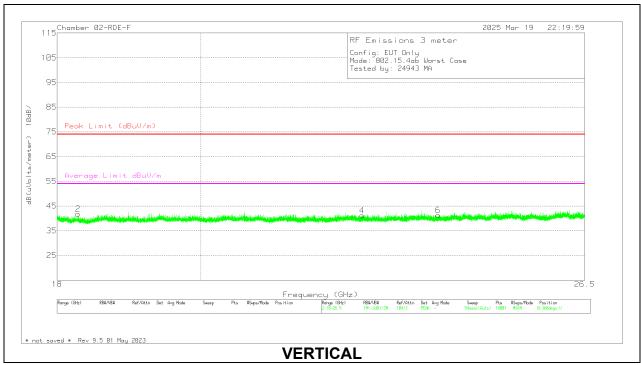
Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 172.659	35.75	Qp	17.3	-30.7	22.35	43.52	-21.17	228	173	Н
2	221.887	33.07	Qp	16.6	-30.4	19.27	46.02	-26.75	113	137	V
3	949.706	19.95	Qp	28.2	-26.5	21.65	46.02	-24.37	5	194	Н
4	40.6021	37.76	Qp	19.1	-31.4	25.46	40	-14.54	74	142	V
5	47.9796	46.09	Qp	14.2	-31.6	28.69	40	-11.31	174	100	V
6	221.933	41.52	Qp	16.6	-30.4	27.72	46.02	-18.30	260	164	Н

 $^{^{\}star}$ - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHz





REPORT NO: 15496282-E6V4 DATE: 2025-08-21

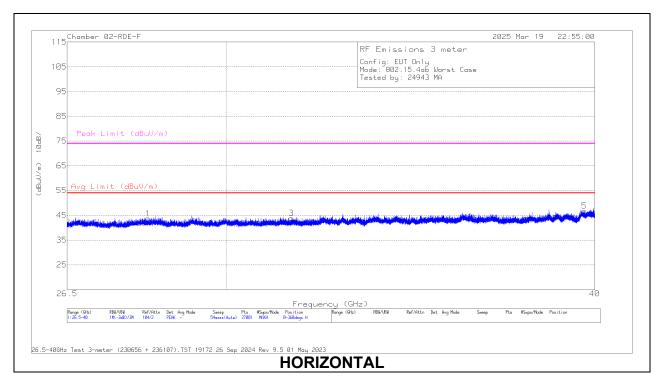
18 - 26GHz DATA

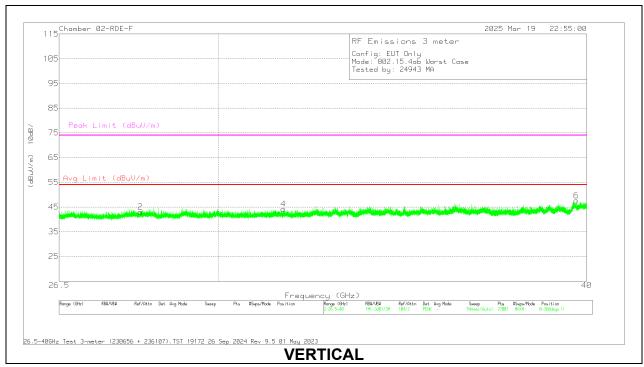
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81140 ACF (dB/m)	AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.271055	55.52	Pk	32.2	-63.8	17.3	41.22	54	-12.78	74	-32.78	0-360	199	Η
3	* 22.502637	50.9	Pk	33.3	-62.6	19.1	40.7	54	-13.3	74	-33.3	0-360	101	Н
5	* 23.806914	52.08	Pk	33.7	-63.8	19.7	41.68	54	-12.32	74	-32.32	0-360	199	Н
2	* 18.277667	56.16	Pk	32.2	-63.8	17.3	41.86	54	-12.14	74	-32.14	0-360	200	V
4	* 22.509248	51.38	Pk	33.3	-62.6	19.1	41.18	54	-12.82	74	-32.82	0-360	200	V
6	* 23.799358	51.75	Pk	33.7	-63.8	19.7	41.35	54	-12.65	74	-32.65	0-360	101	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

10.4. WORST CASE 26-40 GHz





REPORT NO: 15496282-E6V4 DATE: 2025-08-21

26 - 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230656 ACF (dB/m)	AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 31.571	46.7	Pk	36.4	-62.2	22.9	43.8	54	-10.2	74	-30.2	0-360	101	Н
5	* 39.677	47.81	Pk	38.3	-65.5	26.2	46.81	54	-7.19	74	-27.19	0-360	200	Н
4	* 31.5685	47.09	Pk	36.4	-62.2	22.9	44.19	54	-9.81	74	-29.81	0-360	101	V
6	* 39.6795	48.61	Pk	38.3	-65.5	26.2	47.61	54	-6.39	74	-26.39	0-360	101	V
1	28.2215	49.7	Pk	36.2	-64	21.8	43.7	54	-10.3	74	-30.3	0-360	200	Н
2	28.2365	49.06	Pk	36.2	-64	21.8	43.06	54	-10.94	74	-30.94	0-360	200	V

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

	Conducted	d Limit (dBµV)
Frequency of Emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

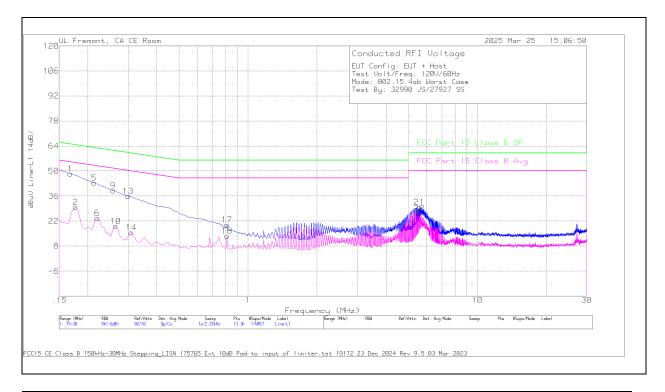
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

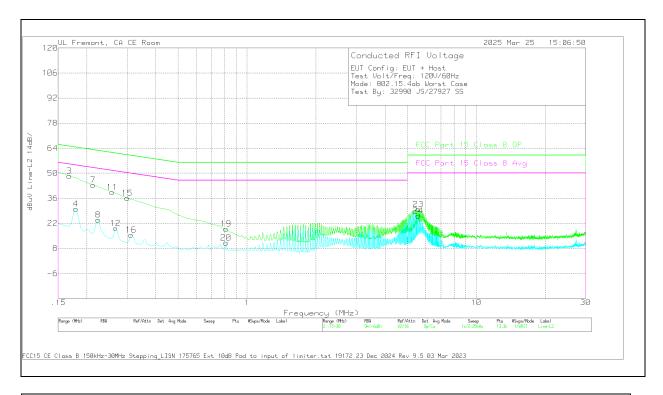
11.1. AC Power Line WITH LAPTOP

LINE 1 RESULTS



Range 1	: Line-L1 .15 -	30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	CBL(dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP Limit (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg Limit (dBuV)	Av(CISPR) Margin (dB)
2	.177	10.97	Ca	.1	.3	8.4	10	29.77	-	-	54.63	-24.86
6	.2198	5.39	Ca	0	0	8.3	10	23.69	-	-	52.83	-29.14
10	.2648	1.16	Ca	0	1	8.1	10	19.16	-	-	51.28	-32.12
14	.3098	-2.47	Ca	0	1	8.1	10	15.53	-	-	49.98	-34.45
18	.8093	-4.33	Ca	0	.1	7.9	10	13.67	-	-	46	-32.33
22	5.5838	7.83	Ca	0	.3	8.2	10	26.33	-	-	50	-23.67
1	.168	29.54	Qp	.1	.4	8.5	10	48.54	65.06	-16.52	-	-
5	.213	25.04	Qp	0	0	8.3	10	43.34	63.09	-19.75	-	-
9	.258	21.01	Qp	0	1	8.2	10	39.11	61.5	-22.39	-	-
13	.3008	17.85	Qp	0	0	8	10	35.85	60.22	-24.37	-	-
17	.8093	1.89	Qp	0	.1	7.9	10	19.89	56	-36.11	-	-
21	5.5815	11.24	Qp	0	.3	8.2	10	29.74	60	-30.26	-	-

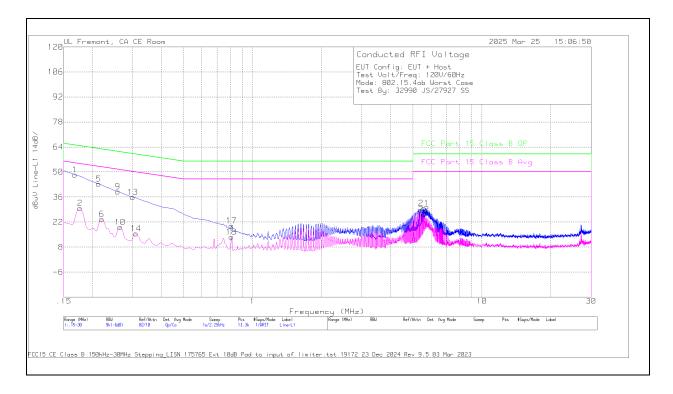
LINE 2 RESULTS



Range 2	: Line-L2 .15 -	30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	CBL(dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP Limit (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg Limit (dBuV)	Av(CISPR) Margin (dB)
4	.1793	11.67	Ca	0	1	8.4	10	30.17	_	_	54.52	-24.35
8	.2243	5.63	Ca	0	.1	8.3	10	24.03	-	-	52.66	-28.63
12	.267	1.12	Ca	0	.1	8.1	10	19.32	-	-	51.21	-31.89
16	.312	-2.55	Ca	0	0	8.1	10	15.55	-	-	49.92	-34.37
20	.8093	-6.75	Ca	0	0	7.9	10	11.15	-	-	46	-34.85
24	5.586	7.69	Ca	0	.3	8.2	10	26.19	-	-	50	-23.81
3	.168	29.77	Qp	.1	.2	8.5	10	48.57	65.06	-16.49	-	-
7	.213	25.1	Qp	0	.1	8.3	10	43.5	63.09	-19.59	-	-
11	.258	21.05	Qp	0	.2	8.2	10	39.45	61.5	-22.05	-	-
15	.3008	18.02	Qp	0	0	8	10	36.02	60.22	-24.2	-	-
19	.8093	.93	Qp	0	0	7.9	10	18.83	56	-37.17	-	-
23	5.5883	11.26	Qp	0	.4	8.2	10	29.86	60	-30.14	-	-

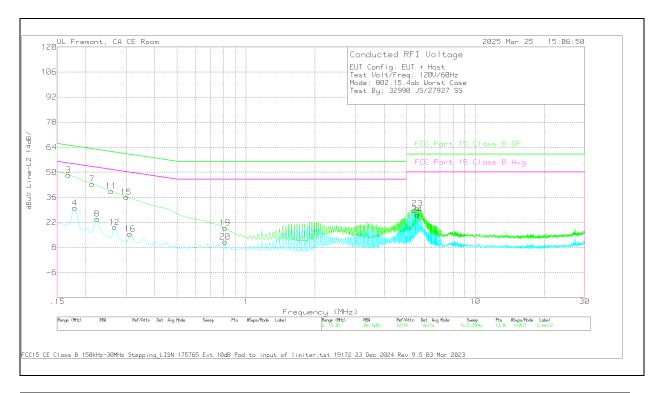
11.2. AC Power Line WITH AC/DC Adapter

LINE 1 RESULTS



Range 1	: Line-L1 .15 -	30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	CBL(dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR) Margin (dB)
2	.177	10.97	Ca	.1	.3	8.4	10	29.77	-	-	54.63	-24.86
6	.2198	5.39	Ca	0	0	8.3	10	23.69	-	-	52.83	-29.14
10	.2648	1.16	Ca	0	1	8.1	10	19.16	-	-	51.28	-32.12
14	.3098	-2.47	Ca	0	1	8.1	10	15.53	-	-	49.98	-34.45
18	.8093	-4.33	Ca	0	.1	7.9	10	13.67	-	-	46	-32.33
22	5.5838	7.83	Ca	0	.3	8.2	10	26.33	-	-	50	-23.67
1	.168	29.54	Qp	.1	.4	8.5	10	48.54	65.06	-16.52	-	-
5	.213	25.04	Qp	0	0	8.3	10	43.34	63.09	-19.75	-	-
9	.258	21.01	Qp	0	1	8.2	10	39.11	61.5	-22.39	-	-
13	.3008	17.85	Qp	0	0	8	10	35.85	60.22	-24.37	-	-
17	.8093	1.89	Qp	0	.1	7.9	10	19.89	56	-36.11	-	-
21	5.5815	11.24	Qp	0	.3	8.2	10	29.74	60	-30.26	-	-

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	CBL(dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR) Margin (dB)
	4700	44.07			,	0.4	40	00.17			54.50	04.05
4	.1793	11.67	Ca	0	.1	8.4	10	30.17	-	-	54.52	-24.35
8	.2243	5.63	Ca	0	.1	8.3	10	24.03	-	-	52.66	-28.63
12	.267	1.12	Ca	0	.1	8.1	10	19.32	-	-	51.21	-31.89
16	.312	-2.55	Ca	0	0	8.1	10	15.55	-	-	49.92	-34.37
20	.8093	-6.75	Ca	0	0	7.9	10	11.15	-	-	46	-34.85
24	5.586	7.69	Ca	0	.3	8.2	10	26.19	-	-	50	-23.81
3	.168	29.77	Qp	.1	.2	8.5	10	48.57	65.06	-16.49	-	-
7	.213	25.1	Qp	0	.1	8.3	10	43.5	63.09	-19.59	-	-
11	.258	21.05	Qp	0	.2	8.2	10	39.45	61.5	-22.05	-	-
15	.3008	18.02	Qp	0	0	8	10	36.02	60.22	-24.2	-	-
19	.8093	.93	Qp	0	0	7.9	10	18.83	56	-37.17	-	-
23	5.5883	11.26	Qp	0	.4	8.2	10	29.86	60	-30.14	-	-

12. SETUP PHOTOS

Please refer to 15496282-EP1V1 FCC IC for setup photos.

13. APPENDIX A - SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3260, A3516, A3517 and A3518.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for the cellular bands that are enabled/disabled by software as shown below.

Model	FCC ID IC ID		Feature Difference	Sim Support	Reference Model	
A3260	BCG-E8948A	579C-E8948A	_No B11/21		-	
A3516	BCG-E8954A 579C-E8954AAdded B11/21No B14/29/71		e CIM			
A3517	BCG-E8955A	579C-E8955A	_No B11/21/14/29/71	eSIM	A3260	
A3518	BCG-E8956A	579C-E8956A	_No B11/21/14/29/71/53 _No MSS			

The spot check plan, approved by the FCC inquiry, allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$(3 + M_{dB}/20) \, dB$$
, for $0 \le M_{dB} \le 60 \, dB$
 $d_{dB_{max}}(M_{dB}) =$ (4)
 $6 \, dB$, for $M_{dB} > 60 \, dB$

Where: d_{dBmax} is the maximum deviation d_{dB} allowed, M_{dB} is the margin in dB d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3516

	A3516 SPOT CHECK RESULTS													
Equipment Class	Frequency						Measured	Original Model: A3260	Sub Model: A3516	Delta				
	(GHz)	Mode	Data Rate	Test	Test Item Channel		hannel Frequency (GHz)	FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID : BCG-E8954A IC : 579C-E8954A	(dB)	Margin	Remarks		
		1TX HP (ANT6)	250kbps	Fundamental	Avg Power (dBm)	Mid	5.786	20.49	20.28	-0.21	-9.51	Note 1		
UNII / 802.15.4ab	5728.75 – 5846.25 UNII-3	1TX HP (ANT6)	250kbps	Horizontal High Channel	Radiated Bandedge (dBm)	High	5.96	-36.09	-35.50	0.59	-9.09	Note 1		
		1TX HP (ANT6)	250kbps	1 to 18 GHz	RSE Peak (dBuV/m)	High	5.692498	58.49	58.57	0.08	-9.71	Note 1		

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3517

	A3517 SPOT CHECK RESULTS													
Equipment Class	Frequency (GHz)						Measured	Original Model: A3260	Sub Model: A3517	Delta				
			Data Rate	Test	est Item Channel		Frequency (GHz)	FCC ID : BCG-E8948A IC : 579C-E8948A	FCC ID : BCG-E8955A IC : 579C-E8955A	(dB)	Margin	Remarks		
		1TX HP (ANT6)	250kbps	Fundamental	Avg Power (dBm)	Mid	5.786	20.49	20.19	-0.30	-9.51	Note 1		
UNII / 802.15.4ab	5728.75 – 5846.25 UNII-3	1TX HP (ANT6)	250kbps	Horizontal High Channel	Radiated Bandedge (dBm)	High	5.96	-36.09	-36.18	-0.09	-9.09	Note 1		
		1TX HP (ANT6)	250kbps	1 to 18 GHz	RSE Peak (dBuV/m)	High	5.692498	58.49	58.06	-0.43	-9.71	Note 1		

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

13.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3518

	A3518 SPOT CHECK RESULTS													
Equipment Class	Frequency (GHz)	Mode	Data Rate	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3260 FCC ID : BCG-E8948A IC : 579C-E8948A	Sub Model: A3518 FCC ID : BCG-E8956A IC : 579C-E8956A	Delta (dB)	Margin	Remarks		
		1TX HP (ANT6)	250kbps	Fundamental	Avg Power (dBm)	Mid	5.786	20.49	20.36	-0.13	-9.51	Note 1		
UNII / 802.15.4ab	5728.75 – 5846.25 UNII-3	1TX HP (ANT6)	250kbps	Horizontal High Channel	Radiated Bandedge (dBm)	High	5.96	-36.09	-36.10	-0.01	-9.09	Note 1		
		1TX HP (ANT6)	250kbps	1 to 18 GHz	RSE Peak (dBuV/m)	High	5.692498	58.49	58.21	-0.28	-9.71	Note 1		

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

END OF REPORT

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