



TEST REPORT

Report Number: 14982480-E2V1

Applicant : APPLE, INC
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3295, A3296, A3297

Brand : APPLE

FCC ID : BCG-E8685A, BCG-E8686A, BCG-E8687A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90,
and Part 96

Date Of Issue:
2024-08-29

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2024-08-28	Initial Review	--

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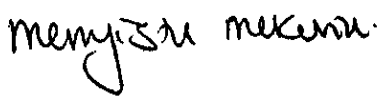
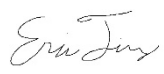
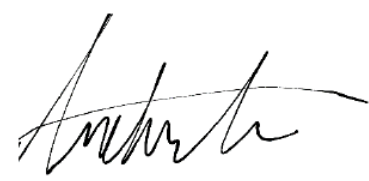
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3295, A3296, A3297	
Brand	APPLE	
FCC ID	BCG-E8685A, BCG-E8686A, BCG-E8687A	
EUT Description	SMARTPHONE	
Serial Number	MODEL (A3295): HVHH29000IJ0000HN4 (CONDUCTED) and FFWWJXTTGQ (RADIATED) MODEL (A3296): HVHH270000K0000HN8 (CONDUCTED) and FQ63X1W2HL (RADIATED) MODEL (A3297): HVHH240002W0000HND (CONDUCTED) and 4459 (RADIATED)	
Sample Receipt Date	2023-11-09	
Date Tested	2023-11-09 to 2024-07-02	
Applicable Standards	FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96	
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 is capable of demonstrating 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 taken into account 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 duly 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 By:	Reviewed By:	Prepared By:
		
Mengistu Mekuria Lead Test Engineer UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc.	Andrew Le Senior Laboratory Technician UL Verification Services Inc.

2. TEST METHODOLOGY

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

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 22, Part 24, Part 25, Part 27, Part 90, and Part 96
- [FCC KDB 971168 D01 v03r01](#): Power Meas License Digital Systems
- [FCC KDB 971168 D02 v02r01](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01 v01r01](#): Determining ERP and EIRP

3. 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	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. 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.

4.2. 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 taken into account when stating conformity with a specified requirement.)

4.3. 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	1.940 db
Power Spectral Density	2.466 db
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	1.300 db Peak 0.450 db Ave.
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
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%.

4.4. 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

5. INTRODUCTION OF TEST DATA REUSE

5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, 5GNR2, IEEE 802.11a/b/g/n/ac/ax/be, 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) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and ISED Canada

5.2. INTRODUCTION

This application for certification is leveraging the data reuse procedures from KDB 484596 D01 based on reference FCC ID: BCG-E8684A to cover variant model FCC ID: BCG-E8685A, FCC ID BCG-E8686A, and FCC ID BCG-E8687A. The major difference between the parent/reference model and the variant model is the depopulation of some LTE and 5G NR Bands. All other circuitry and features are identical. The data reuse test plan was approved via manufacturer KDB inquiry.

5.3. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3084, A3295, A3296, and A3297.

These models are highly similar, with the only difference being the supported cellular bands.

Model	FCC ID	Model Changes
A3084	BCG-E8684A	Reference Model
A3295	BCG-E8685A	Variant model Removed FR2 from the reference model
A3296	BCG-E8686A	Variant model Removed FR2, LTE B11/14/21/29/71, and 5G NR n14/n71/n29 from the reference model
A3297	BCG-E8687A	Variant model Removed MSS, FR2, LTE B11/14/21/29/53/71, and 5G NR n14/n53/n71/n29 from the reference model

Note:

They have the same PCB layout, design, common components, antennas, antenna locations and housing cases.

More specifically, their cellular modem, Wi-Fi, BT, NFC, WPT and UWB transmitters are identical, and removal of cellular bands is done by software and depopulation of band-specific components associated with the removed bands.

Spot check verification has been done on models A3295, A3296 and A3297 in accordance with the test plan approved via KDB inquiry. Spot checks were performed for conducted output power in all bands and radiated spurious emissions on selected bands representing bands below 1GHz, in the range 1 - 2GHz, in the range 2 - 3GHz and above 3GHz. For data referencing the criteria from KDB 484596 D01 v02r03 equation (2).

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB}/20) \text{ dB} \quad , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad . \quad (2)$$
$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB} \quad , \text{ for } M_{dB} > 60 \text{ dB}$$

Where: d_{dB} deviation from Reference data, R_{dB} variant spot check level, and R_{dB} measurement level

5.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3295

A3295 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3295	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8685A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535	25.70	25.70	0	
5G NR BAND N7	BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0	
LTE BAND 14	QPSK @ 10 MHz BW	Cond Power	793	25.70	25.70	0	
5G NR BAND N14	BPSK @ 10 MHz BW	Cond Power	793	25.68	25.70	0.02	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710	25.70	25.70	0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0	
LTE BAND 26 (90S)	QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
5G NR BAND N26 (90S)	BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0	
5G NR BAND N26 (P22)	BPSK @20 MHz BW	Cond Power	839	25.66	25.70	0.04	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310	25.20	25.20	0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.70	0	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3625	26.00	26.00	0	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3625	26.00	26.00	0	
LTE BAND 53	QPSK @ 10 MHz BW	Cond Power	2489	20.7	20.70	0	
5G NR BAND N53	BPSK @ 10 MHz BW	Cond Power	2489	20.70	20.70	0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0	
5G NR BAND N66	BPSK @ 40 MHz BW	Cond Power	1745	25.70	25.70	0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0	
LTE BAND 71	QPSK @ 20 MHz BW	Cond Power	683	25.70	25.70	0	
5G NR BAND n71	BPSK @ 20 MHz BW	Cond Power	683	25.70	25.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0	

A3295 SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3295	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8685A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535	-45.91	-46.07	-0.16	19.24	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-48.95	-46.02	2.93	32.50	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-51.16	-50.84	0.32	37.93	Note 1
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620	-51.66	-54.07	-2.41	11.16	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed.

5.5. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR 3296

A3296 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3296	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8686A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535	25.70	25.70	0	
5G NR BAND N7	BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	706.5	25.70	25.70	0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	710	25.70	25.70	0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0	
LTE BAND 26 (90S)	QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
5G NR BAND N26 (90S)	BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0	
5G NR BAND N26 (P22)	BPSK @20 MHz BW	Cond Power	839	25.66	25.70	0.04	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310	25.20	25.20	0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.65	-0.05	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3625	26.00	26.00	0	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3625	26.00	26.00	0	
LTE BAND 53	QPSK @ 10 MHz BW	Cond Power	2489	20.70	20.70	0	
5G NR BAND N53	BPSK @ 10 MHz BW	Cond Power	2489	20.70	20.70	0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0	
5G NR BAND N66	BPSK @ 40 MHz BW	Cond Power	1730	25.70	25.70	0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0	

A3296 SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3296	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8686A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535	-45.91	-45.71	0.2	-19.24	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-48.95	-46.96	1.99	-32.50	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-51.16	-48.53	2.63	-37.93	Note 1
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620	-51.66	-50.87	0.79	-11.16	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed.

5.6. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR 3297

A3297 SPOT CHECK RESULTS							
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3297	Delta (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8687A (dBm)		
LTE BAND 7	QPSK @ 20 MHz BW	Cond Power	2535	25.70	25.70	0	
5G NR BAND N7	BPSK @ 40 MHz BW	Cond Power	2535	25.70	25.70	0	
LTE BAND 12	QPSK @ 10 MHz BW	Cond Power	707.5	25.70	25.70	0	
5G NR BAND N12	BPSK @ 15 MHz BW	Cond Power	707.5	25.70	25.70	0	
LTE BAND 13	QPSK @ 10 MHz BW	Cond Power	782	25.70	25.70	0	
LTE BAND 17	QPSK @ 10 MHz BW	Cond Power	793	25.70	25.70	0	
LTE BAND 25	QPSK @ 20 MHz BW	Cond Power	1882.5	25.70	25.70	0	
5G NR BAND N25	BPSK @ 40 MHz BW	Cond Power	1882.5	25.70	25.70	0	
LTE BAND 26 (90S)	QPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
5G NR BAND N26 (90S)	BPSK @10 MHz BW	Cond Power	819	25.70	25.70	0	
LTE BAND 26 (P22)	QPSK @ 10 MHz BW	Cond Power	836.5	25.70	25.70	0	
5G NR BAND N26 (P22)	BPSK @20 MHz BW	Cond Power	839	25.66	25.70	0.04	
LTE BAND 30	QPSK @ 10 MHz BW	Cond Power	2310	25.70	25.70	0	
5G NR BAND N30	BPSK @ 10 MHz BW	Cond Power	2310	25.20	25.20	0	
LTE BAND 41	QPSK @ 20 MHz BW	Cond Power	2593	28.70	28.70	0	
5G NR BAND N41	BPSK @ 100 MHz BW	Cond Power	2593	28.70	28.70	0	
LTE BAND 48	QPSK @ 20 MHz BW	Cond Power	3625	26.00	25.99	-0.01	
5G NR BAND N48	BPSK @ 40 MHz BW	Cond Power	3625	26.00	26.00	0	
LTE BAND 66	QPSK @ 20 MHz BW	Cond Power	1745	25.70	25.70	0	
5G NR BAND N66	BPSK @ 40 MHz BW	Cond Power	1745	25.70	25.70	0	
5G NR BAND n70	QPSK @ 15 MHz BW	Cond Power	1702.5	25.70	25.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3500	28.70	28.70	0	
5G NR BAND N77	BPSK @ 100 MHz BW	Cond Power	3840	28.70	28.70	0	

A3297 SPOT CHECK RESULTS								
Technology	Worst Mode	Test Item	Measured	Original Model: A3084	Sub Model: A3297	Delta (dB)	Margin (dB)	Remarks
			Frequency (MHz)	FCC ID: BCG-E8684A (dBm)	FCC ID: BCG-E8687A (dBm)		M(dB)=C(dB)-R(dB)	
LTE BAND 7	QPSK @ highest BW	RSE	2535	-45.91	-45.58	0.33	19.24	Note 1
LTE BAND 25	QPSK @ highest BW	RSE	1882.5	-48.95	-47.9	1.05	32.50	Note 1
LTE BAND 26 (P22)	QPSK @ highest BW	RSE	836.5	-51.16	-52.2	-1.04	37.93	Note 1
LTE BAND 48	QPSK @ 20 MHz BW	RSE	3620	-51.66	-51.56	0.1	11.16	Note 1

Note 1: Deviation is within the threshold to allow for full data referencing.

Note 2: Noise floor measurement.

Note 3: Deviation is larger then the threshold to allow for data referencing. As the full test for this band had significant margin to the limits (typically more than 20dB but always more than 15dB) additional tests for other bands were not considered necessary.Full set of measurements performed.

5.7. REFERENCE DETAIL

Reference application that contains the reused reference data.

Reference FCC ID	Variant model FCC ID	Reference Test Report / Data Referencing Section	Equipment Class
BCG-E8684A	BCG-E8685A	14982479-E18/ All Sections	PCE
		14982479-E14/ All Sections	CBE
		14982479-E24/ All Sections	TNE
		14982479-E25/ All Sections	TNE
	BCG-E8686A	14982479-E18/ All Sections	PCE
		14982479-E14/ All Sections	CBE
		14982479-E24/ All Sections	TNE
		14982479-E25/ All Sections	TNE
	BCG-E8687A	14982479-E18/ All Sections	PCE
		14982479-E14/ All Sections	CBE

5.8. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.02.01.

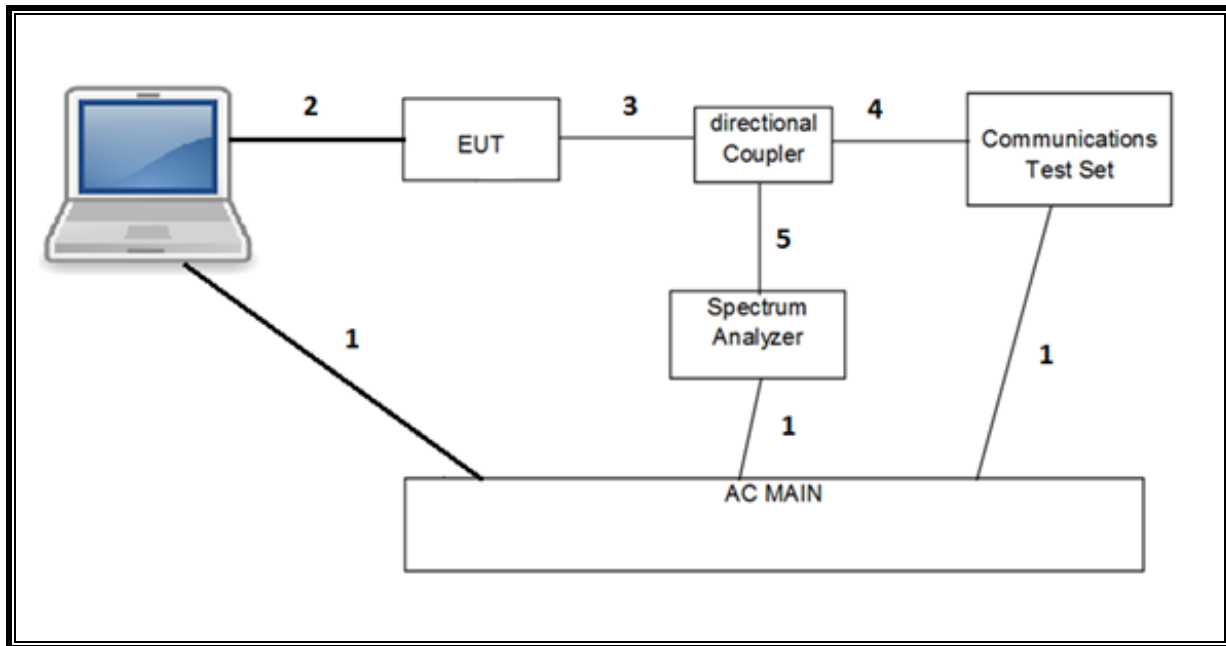
5.9. SPOT CHECK WORST-CASE CONFIGURATION AND MODE

The spot checks were performed on the worst-case orientations and configurations based on the parent model of reference report.

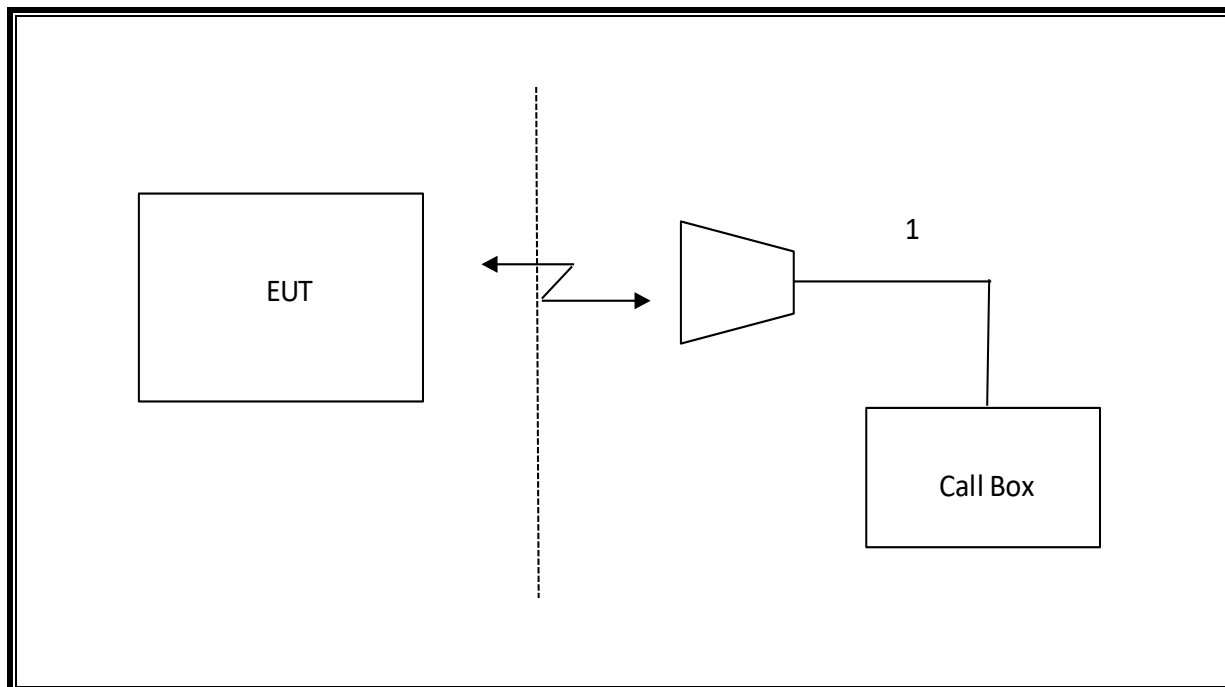
5.10. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	MacBook Pro	HRP082673		BCGA1708
AC/DC adapter		Apple	A1718	C4H64450HH3GN8RA6		--
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2.0	N/A
2	USB	1	DC	Un-shielded	1.0	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A
5	RF In/Out	1	Barrel	N/A	N/A	N/A
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



6. 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	Asset	Cal Due
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80430	2024-08-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	79834	2024-06-30
Antenna, Broadband Hybrid, 30MHz to 3000MHz	SUNAR	JB3	222009	2024-10-31
RF Filter Box, 1-18GHz	UL-FR1	NA	217255	2024-10-31
RF Filter Box, 1-18GHz	UL-FR1	RATS 2	226781	2024-09-30
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	430250	2024-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85943	2025-02-28
Directional Coupler	KRYTAR	152610	198816	2024-10-31
Directional Coupler	KRYTAR	152610	231664	2025-01-22
Power Meter, P-series single channel	Keysight	N1912A	90719	2025-01-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	81319	2025-01-31
Filter, HPF 1.2GHz	Micro-Tronics	HPM18129	204788	2024-09-30
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	231739	2025-01-31
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	245120	2025-02-28
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85212	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222793	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222797	2025-02-28
Transmitting Antenna, Horn Antenna	TEKBOX Digital Solutions	TBMA4	226709	C.N.R.
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2024-12-31
*Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB	AMPLICAL	AMP18G26.5-60	234683	2024-03-29
DC Power Supply	GWINSTEK	GPS18500	N/A	C.N.R.
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	V2023.11.21.0	
Power Measurement Software	UL	UL RF	V2023.08.14.0	
Radiated test software	UL	UL RF	Ver 9.5 2023-05-01	

NOTES:

* Testing is completed before equipment expiration date.

Appendix A – Reference Test Report

Attached is the test report (14982479-E14, 14982479-E18, 14982479-E24, 14982479-E25) containing the reference data from the parent model as detailed in section 5.7.