



TEST REPORT

Report Number: 13587906-E8V2

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

Model : A2641, A2643, A2644, AND A2645

Brand : APPLE

FCC ID : BCG-E4005A, BCG-E4035A, BCG-E4036A

EUT Description : SMARTPHONE

Test Standard(s) : FCC CFR47 PART 2, 22H, 24E, 27, 90S, 90R, AND 96

Date Of Issue:
AUGUST 10, 2021

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Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-------------------|--|-------------------|
| V1 | 8/6/2021 | Initial Review | Tony Li |
| V2 | 8/10/2021 | Updated Section 5 according to TCB Feedback. Removed reference to setup photos, as that is covered by referenced report in appendix A. | John Thompson |

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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 | A2641, A2643, A2644, AND A2645 |
| Brand | APPLE |
| FCC ID | BCG-E4005A, BCG-E4035A, BCG-E4036A |
| EUT Description | SMARTPHONE |
| Serial Number | MODEL (A2641): C07116600N90G3C3 (CONDUCTED), J9CP2T29W6 (RADIATED) MODEL (A2643): C071175015X18J31 (CONDUCTED), Q63F0Y0HYH (RADIATED) MODEL (A2645): C071173000K18J61 (CONDUCTED), M4D6RLJQ25 (RADIATED) |
| Sample Receipt Date | JUNE 04, 2021 |
| Date Tested | JUNE 09, 2021 to AUGUST 06, 2021 |
| Applicable Standards | FCC CFR47 PART 2, 22H, 24E, 27, 90S, 90R, AND 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. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

| | | |
|--|---|---|
| Approved & Released By:  | Reviewed By:  | Prepared By:  |
| Mengistu Mekuria Lead Test Engineer UL Verification Services Inc. | John Thompson Laboratory Engineer UL Verification Services Inc. | Tony Li Test Engineer 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 CFR 47 Part 2, Part 22, Part 24, 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 |
|-------------------------------------|--|------------|---------------------|------------------|
| <input type="checkbox"/> | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104 | 2324A | 208313 |
| <input checked="" type="checkbox"/> | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA | US0104 | 22541 | 208313 |
| <input checked="" type="checkbox"/> | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA | US0104 | 2324B | 208313 |

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} |
|---|------------------|
| 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 |
| Occupied Channel Bandwidth | ±1.22 % |
| Temperature | ±2.26% |
| Supply voltages | ±0.57 % |
| Time | ±3.39 % |

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

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

5. INTRODUCTION OF TEST DATA REUSE

5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, and NFC. All models support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

5.2. INTRODUCTION

This application for certification is leveraging the data reuse procedures from KDB 484596 D01 based on reference FCC ID: BCG-E4003A to cover variant model FCC ID: BCG-E4005A, FCC ID: BCG-E4035A, and FCC ID: BCG-E4036A. The major difference between the parent/reference model and the variant model is the depopulation in the variant model of the mmWave transmitter, and 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 A2484, A2641, A2643, A2644, and A2645.

A2484, A2641, A2643, A2644, and A2645 are highly similar, with the only differences being listed on the table below.

| Model | FCC ID | Model Changes |
|--------|------------|------------------------|
| A2484 | BCG-E4003A | Main Reference Model |
| A2641 | BCG-E4005A | FR2 removed |
| A2643 | BCG-E4035A | FR2 and B14/71 removed |
| A2644* | BCG-E4036A | FR2 and B14/71 removed |
| A2645 | BCG-E4036A | FR2 and B14/71 removed |

*Note: Model only support (pSIM + pSIM) instead of (pSIM + eSIM). A2644 is electrically identical to A2645.

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 A2641, A2643, A2644, and A2645 in accordance with the test plan approved via KDB inquiry. Comparison of the models, upper deviation is within 3dB range and all tests are under FCC/ISED Technical Limits. The results documented for model A2484 may be applied as representative to models A2641, A2643, A2644, and A2645.

5.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A2641

| A2641 SPOT CHECK RESULTS | | | | | | | |
|--------------------------|-------------------|------------|-----------------|--------------------------|--------------------------|------------|-------------|
| Technology | Worst Mode | Test Item | Measured | Original Model: A2484 | Sub Model: A2641 | Delta (dB) | Remarks |
| | | | Frequency (MHz) | FCC ID: BCG-E4003A (dBm) | FCC ID: BCG-E4005A (dBm) | | |
| 5G NR BAND N5 | BPSK @ 20 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | Noise Floor |
| | BPSK @ highest BW | RSE | | -53.08 | -54.15 | -1.07 | |
| LTE BAND 7 | QPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | Noise Floor |
| | QPSK @ highest BW | RSE | | -48.95 | -49.01 | -0.06 | |
| 5G NR BAND N7 | BPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | |
| LTE BAND 12 | QPSK @ 10 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N12 | BPSK @ 15 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| LTE BAND 13 | QPSK @ 10 MHz BW | Cond Power | 777-787 | 25.7 | 25.7 | 0 | |
| LTE BAND 14 | QPSK @ 10 MHz BW | Cond Power | 788-798 | 25.7 | 25.7 | 0 | |
| LTE BAND 17 | QPSK @ 10 MHz BW | Cond Power | 704-716 | 25.7 | 25.7 | 0 | |
| LTE BAND 25 | QPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | Noise Floor |
| | QPSK @ highest BW | RSE | | -50.71 | -51.58 | -0.87 | |
| 5G NR BAND N25 | BPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | |
| LTE BAND 26 (90S) | QPSK @10 MHz BW | Cond Power | 814-824 | 25.70 | 25.70 | 0 | |
| LTE BAND 26 (p22) | QPSK @10 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | |
| LTE BAND 30 | QPSK @ 10 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| 5G NR BAND N30 | BPSK @ 5 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| LTE BAND 41 | QPSK @ 20 MHz BW | Cond Power | 2496-2690 | 27.5 | 27.5 | 0 | |
| 5G NR BAND N41 | BPSK @ 100 MHz BW | Cond Power | 2496-2690 | 27.7 | 27.7 | 0 | |
| LTE BAND 48 | QPSK @ 20 MHz BW | Cond Power | 3550-3700 | 24.8 | 24.8 | 0 | Noise Floor |
| | QPSK @ highest BW | RSE | | -52.55 | -61.11 | -8.56 | |
| LTE BAND 66 | QPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N66 | BPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| LTE BAND 71 | QPSK @ 20 MHz BW | Cond Power | 663-698 | 25.7 | 25.7 | 0 | |
| 5G NR BAND n71 | BPSK @ 20 MHz BW | Cond Power | 663-698 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3450-3550 | 27.7 | 27.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3700-3980 | 27.7 | 27.7 | 0 | |

5.5. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A2643

| A2643 SPOT CHECK RESULTS | | | | | | | |
|--------------------------|-------------------|------------|-----------------|--------------------------|--------------------------|------------|-------------|
| Technology | Worst Mode | Test Item | Measured | Original Model: A2484 | Sub Model: A2643 | Delta (dB) | Remarks |
| | | | Frequency (MHz) | FCC ID: BCG-E4003A (dBm) | FCC ID: BCG-E4035A (dBm) | | |
| 5G NR BAND N5 | BPSK @ 20 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | |
| | BPSK @ highest BW | RSE | | -51.97 | -52.88 | -0.91 | Noise Floor |
| LTE BAND 7 | QPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | |
| | QPSK @ highest BW | RSE | 7528.74 | -48.61 | -49.08 | -0.47 | Noise Floor |
| 5G NR BAND N7 | BPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | |
| LTE BAND 12 | QPSK @ 10 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| | | | | | | | |
| 5G NR BAND N12 | BPSK @ 15 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| | | | | | | | |
| LTE BAND 13 | QPSK @ 10 MHz BW | Cond Power | 777-787 | 25.7 | 25.7 | 0 | |
| | | | | | | | |
| LTE BAND 17 | QPSK @ 10 MHz BW | Cond Power | 704-716 | 25.7 | 25.7 | 0 | |
| | | | | | | | |
| LTE BAND 25 | QPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | |
| | QPSK @ highest BW | RSE | | -51.35 | -51.96 | -0.61 | Noise Floor |
| 5G NR BAND N25 | BPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | |
| LTE BAND 26 (90S) | QPSK @10 MHz BW | Cond Power | 814-824 | 25.7 | 25.7 | 0 | |
| LTE BAND 26 (Part 22) | QPSK @10 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | |
| LTE BAND 30 | QPSK @ 10 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| 5G NR BAND N30 | BPSK @ 5 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| LTE BAND 41 | QPSK @ 20 MHz BW | Cond Power | 2496-2690 | 27.5 | 27.5 | 0 | |
| 5G NR BAND N41 | BPSK @ 100 MHz BW | Cond Power | 2496-2690 | 27.7 | 27.7 | 0 | |
| | | | | | | | |
| LTE BAND 48 | QPSK @ 20 MHz BW | Cond Power | 3550-3700 | 24.8 | 24.8 | 0 | |
| | QPSK @ highest BW | RSE | | -52.55 | -53.63 | -1.08 | Noise Floor |
| LTE BAND 66 | QPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N66 | BPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3450-3550 | 27.7 | 27.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3700-3980 | 27.7 | 27.7 | 0 | |

5.6. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A2644 AND A2645

| A2644 AND A2645 SPOT CHECK RESULTS | | | | | | | |
|------------------------------------|-------------------|------------|-----------------|--------------------------|----------------------------|------------|-------------|
| Technology | Worst Mode | Test Item | Measured | Original Model: A2484 | Sub Model: A2644 and A2645 | Delta (dB) | Remarks |
| | | | Frequency (MHz) | FCC ID: BCG-E4003A (dBm) | FCC ID: BCG-E4036A (dBm) | | |
| 5G NR BAND N5 | BPSK @ 20 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | |
| | BPSK @ highest BW | RSE | | -53.5 | -54.15 | -0.65 | Noise Floor |
| LTE BAND 7 | QPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | |
| | QPSK @ highest BW | RSE | 7528.74 | -48.61 | -48.66 | -0.05 | Noise Floor |
| 5G NR BAND N7 | BPSK @ 20 MHz BW | Cond Power | 2500-2570 | 25.7 | 25.7 | 0 | |
| LTE BAND 12 | QPSK @ 10 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N12 | BPSK @ 15 MHz BW | Cond Power | 699-716 | 25.7 | 25.7 | 0 | |
| LTE BAND 13 | QPSK @ 10 MHz BW | Cond Power | 777-787 | 25.7 | 25.7 | 0 | |
| LTE BAND 17 | QPSK @ 10 MHz BW | Cond Power | 704-716 | 25.7 | 25.7 | 0 | |
| LTE BAND 25 | QPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | |
| | QPSK @ highest BW | RSE | | -50.71 | -51.25 | -0.54 | Noise Floor |
| 5G NR BAND N25 | BPSK @ 20 MHz BW | Cond Power | 1850-1915 | 25.7 | 25.7 | 0 | |
| LTE BAND 26 (90S) | QPSK @ 10 MHz BW | Cond Power | 814-824 | 25.7 | 25.7 | 0 | |
| LTE BAND 26 (Part 22) | QPSK @ 10 MHz BW | Cond Power | 824-849 | 25.7 | 25.7 | 0 | |
| LTE BAND 30 | QPSK @ 10 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| 5G NR BAND N30 | BPSK @ 5 MHz BW | Cond Power | 2305-2315 | 25 | 25 | 0 | |
| LTE BAND 41 | QPSK @ 20 MHz BW | Cond Power | 2496-2690 | 27.5 | 27.5 | 0 | |
| 5G NR BAND N41 | BPSK @ 100 MHz BW | Cond Power | 2496-2690 | 27.7 | 27.7 | 0 | |
| LTE BAND 48 | QPSK @ 20 MHz BW | Cond Power | 3550-3700 | 24.8 | 24.8 | 0 | |
| | QPSK @ highest BW | RSE | | -44.08 | -49.39 | -5.31 | Noise Floor |
| LTE BAND 66 | QPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N66 | BPSK @ 20 MHz BW | Cond Power | 1710-1780 | 25.7 | 25.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3450-3550 | 27.7 | 27.7 | 0 | |
| 5G NR BAND N77 | BPSK @ 100 MHz BW | Cond Power | 3700-3980 | 27.7 | 27.7 | 0 | |

5.7. REFERENCE DETAIL

Reference application that contains the reused reference data.

| Equipment Class | Reference FCC ID | Reference Application | Variant model FCC ID | Report Title/Section |
|------------------------|-------------------------|------------------------------|-----------------------------|--|
| PCE, CBE, TNE | BCG-E4003A | 13573771-E8 | BCG-E4005A | FCC LTE Report/ All Sections |
| PCE, CBE, TNE | BCG-E4003A | 13573771-E8 | BCG-E4035A | FCC LTE Report/ All Sections except LTE/5GnR Band 14/71 sections |
| PCE, CBE, TNE | BCG-E4003A | 13573771-E8 | BCG-E4036A | FCC LTE Report/ All Sections except LTE/5GnR Band 14/71 sections |

5.8. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.21.02-1

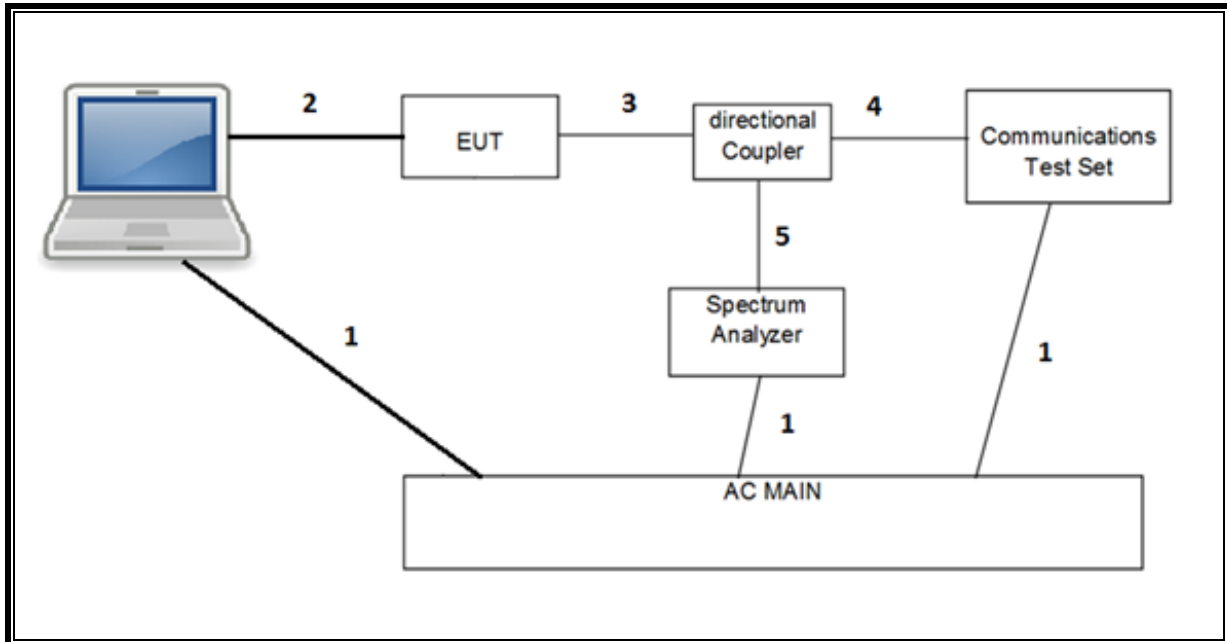
5.9. SPOT CHECK WORST-CASE CONFIGURATION AND MODE

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

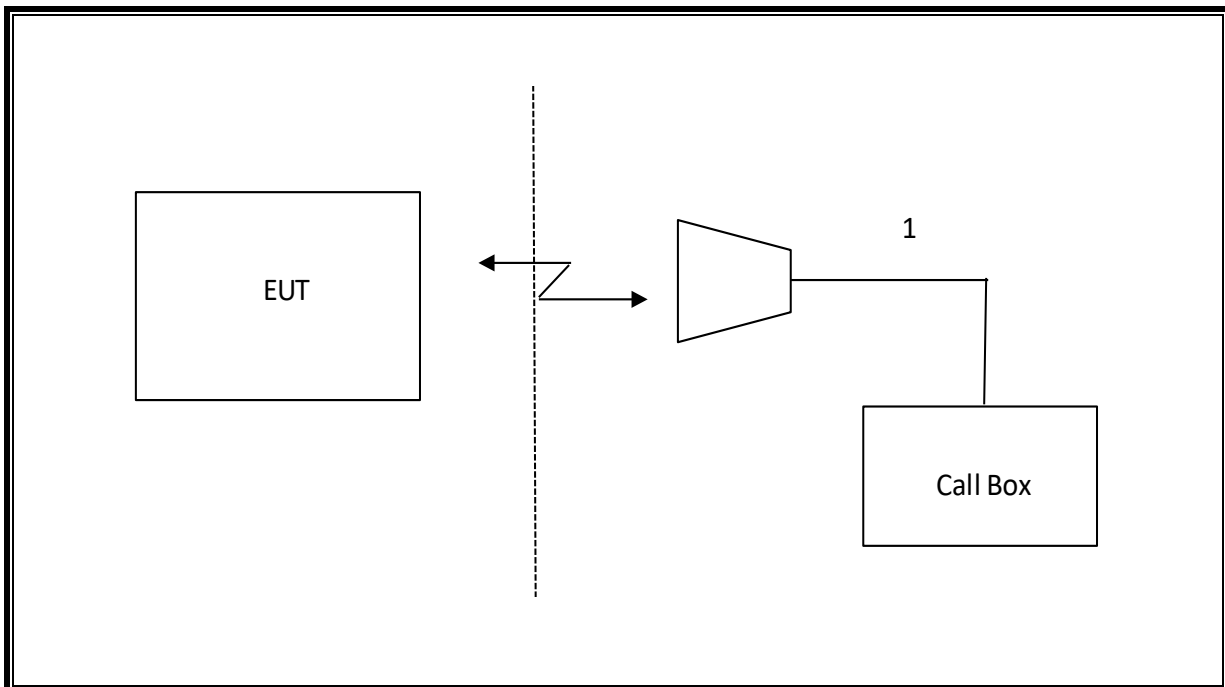
5.10. DESCRIPTION OF TEST SETUP

| SUPPORT TEST EQUIPMENT | | | | | | |
|--------------------------------|--------------|----------------------|------------------------|-------------|------------------|---------|
| Description | Manufacturer | Model | Serial Number | FCC ID/ DoC | | |
| Laptop | A1398 | C02PM012G3QD | QDS-BRCM1069 | A1398 | | |
| AC/DC adapter | PA-1450-BA1 | B123 | N/A | PA-1450-BA1 | | |
| 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 | PRE0213833 | 02/16/2022 |
| RF Device, Active, Amplifier | AMPLICAL | AMP0.1G18-47-20 | 206055 | 05/13/2022 |
| EMI TEST RECEIVER | Rohde & Schwarz | ESW44 | 201500 | 0/2/26/2022 |
| *Filter, BRF 2495 to 2690MHz | Micro-Tronics | BRM50709-02 | T1790 | 06/23/2021 |
| Filter, 2.7 to 18GHz High Pass | Micro-Tronics | H2G518G6 | 198714 | 04/22/2022 |
| *Filter, Highpass 1.2GHz | Micro-Tronics | HPM50108 | T1737 | 6/23/2021 |
| Directional Coupler | KRYTAR | 152610 | T1161 | 09/16/2021 |
| Directional Coupler | KRYTAR | 152613 | T1537 | 09/16/2021 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | T703 | 02/20/2022 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | T972 | 02/20/2022 |
| Power Meter, P-series single channel | Keysight | N1912A | T1245 | 01/21/2022 |
| Power Sensor | Keysight | N1921A | T1225 | 01/28/2022 |
| UL AUTOMATION SOFTWARE | | | | |
| CLT Software | UL | UL RF | Ver 3.2.5, 4/13/2021 | |
| Power Measurement Software | UL | UL RF | Ver 3.1.2 5/17/2021 | |
| Radiated test software | UL | UL RF | Ver 9.5, 4/14/2021 | |

NOTES:

* Testing is completed before equipment expiration date.

Appendix A – Reference Test Report

Attached is the test report (13573771-E8) containing the reference data from the parent model as detailed in section 5.7.