

TEST REPORT

Applicant Name: Telepower Communication Co., Ltd.
Address: 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD,
Nanhai District Foshan China
Report Number: 2401A35544E-RF-00E
FCC ID: 2AJ2B-M1K

Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E

Sample Description

Product Type: POS Terminal
Model No.: M1
Multiple Model(s) No.: M1K, M1KC
Trade Mark: Telpo
Date Received: 2024-12-03
Issue Date: 2025-04-11

| | |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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TABLE OF CONTENTS

| | |
|--|-----------|
| DOCUMENT REVISION HISTORY | 3 |
| GENERAL INFORMATION..... | 4 |
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 4 |
| OBJECTIVE | 5 |
| TEST METHODOLOGY | 5 |
| MEASUREMENT UNCERTAINTY..... | 6 |
| TEST FACILITY | 6 |
| SYSTEM TEST CONFIGURATION..... | 7 |
| SUMMARY OF TEST RESULTS | 10 |
| TEST EQUIPMENT LIST | 11 |
| REQUIREMENTS AND TEST PROCEDURES | 12 |
| APPLICABLE STANDARD FOR PART 22 SUBPART H | 12 |
| APPLICABLE STANDARD FOR PART 24 SUBPART E | 14 |
| APPLICABLE STANDARD FOR PART 27 | 15 |
| TEST METHOD | 16 |
| TEST DATA AND RESULTS..... | 23 |
| SPURIOUS RADIATED EMISSIONS | 23 |
| RF CONDUCTED DATA | 28 |
| RF EXPOSURE EVALUATION | 29 |
| EUT PHOTOGRAPHS..... | 30 |
| TEST SETUP PHOTOGRAPHS | 31 |

DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 0 | 2401A35544E-RF-00E | Original Report | 2025-04-11 |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | | | |
|---|---|--------------------------------------|---------------------|
| Product Type | POS Terminal | | |
| Test Model | M1 | | |
| Multiple Model(s) | M1K, M1KC | | |
| Frequency Range | GSM 850: 824-849MHz(TX); 869-894MHz(RX) PCS 1900: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(TX) LTE Band 38: 2570-2620MHz(TX/RX) | | |
| Modulation Technique | 2G: GMSK, 8PSK 3G: BPSK, QPSK, 16QAM 4G: QPSK, 16QAM | | |
| Antenna Specification [#] | Operation Bands | Antenna Gain (G _T) (dBi) | L _C (dB) |
| | GSM 850/WCDMA B5 | 2.50 | 0 |
| | PCS1900/WCDMA B2/LTE B2 | 2.98 | 0 |
| | LTE B4 | 2.15 | 0 |
| | LTE B7 | 5.04 | 0 |
| | LTE B38 | 5.02 | 0 |
| | Note: L _c = Signal Attenuation in the connecting cable between the transmitter and antenna, in dB. | | |
| Voltage Range | DC 7.60V from Li-ion Battery or DC 5V from Adapter | | |
| Sample serial number | 2VH5-2 for Radiated Emissions Test 2VH6-3 for RF Conducted Test (Assigned by BACL, Shenzhen) | | |
| Sample/EUT Status | Good condition | | |
| Normal/Extreme Condition [#] | VL: Low Voltage 6.46V _{DC} VN: Normal Voltage 7.60V _{DC} VH: High Voltage 8.70V _{DC} (provided by the applicant) | | |
| Adapter Information | Model: TPA-147A050200UU01 Input: 100-240V~50/60Hz 0.3A Output: 5.0V, 2.0A | | |
| Note: The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer. | | | |

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in
Licensed Radio Services
KDB 971168 D01: Power Meas License Digital Systems v03r01

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

| Parameter | | Uncertainty |
|------------------------------|-----------------------------|--|
| Occupied Channel Bandwidth | | 109.2kHz(k=2, 95% level of confidence) |
| RF output power, conducted | | 0.86dB(k=2, 95% level of confidence) |
| Unwanted Emission, conducted | | 1.60dB(k=2, 95% level of confidence) |
| RF Frequency | | 56.6Hz(k=2, 95% level of confidence) |
| Radiated Emissions | 30MHz~200MHz (Horizontal) | 5.32dB(k=2, 95% level of confidence) |
| | 30MHz~200MHz (Vertical) | 5.43dB(k=2, 95% level of confidence) |
| | 200MHz~1000MHz (Horizontal) | 5.77dB(k=2, 95% level of confidence) |
| | 200MHz~1000MHz (Vertical) | 5.73dB(k=2, 95% level of confidence) |
| | 1GHz - 6GHz | 5.34dB(k=2, 95% level of confidence) |
| | 6GHz - 18GHz | 5.40dB(k=2, 95% level of confidence) |
| | 18GHz - 40GHz | 5.64dB(k=2, 95% level of confidence) |
| Temperature | | ±1°C |
| Humidity | | ±1% |
| Supply voltages | | ±0.4% |

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

| Frequency band | Bandwidth (MHz) | Test Frequency | | |
|----------------|--------------------|----------------|--------|--------|
| | | (MHz) | | |
| | | Low | Middle | High |
| GSM850 | 0.25 | 824.2 | 836.6 | 848.8 |
| PCS1900 | 0.25 | 1850.2 | 1880 | 1909.8 |
| WCDMA B2 | 4.2 | 1852.4 | 1880 | 1907.6 |
| WCDMA B5 | 4.2 | 826.4 | 836.4 | 846.6 |
| LTE B2 | 1.4 | 1850.7 | 1880 | 1909.3 |
| | 3 | 1851.5 | 1880 | 1908.5 |
| | 5 | 1852.5 | 1880 | 1907.5 |
| | 10 | 1855 | 1880 | 1905 |
| | 15 | 1857.5 | 1880 | 1902.5 |
| | 20 | 1860 | 1880 | 1900 |
| LTE B4 | 1.4 | 1710.7 | 1732.5 | 1754.3 |
| | 3 | 1711.5 | 1732.5 | 1753.5 |
| | 5 | 1712.5 | 1732.5 | 1752.5 |
| | 10 | 1715 | 1732.5 | 1750 |
| | 15 | 1717.5 | 1732.5 | 1747.5 |
| | 20 | 1720 | 1732.5 | 1745 |
| LTE B7 | 5 | 2502.5 | 2535 | 2567.5 |
| | 10 | 2505 | 2535 | 2565 |
| | 15 | 2507.5 | 2535 | 2562.5 |
| | 20 | 2510 | 2535 | 2560 |
| LTE B38 | 5 | 2572.5 | 2595 | 2617.5 |
| | 10 | 2575 | 2595 | 2615 |
| | 15 | 2577.5 | 2595 | 2612.5 |
| | 20 | 2580 | 2595 | 2610 |

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

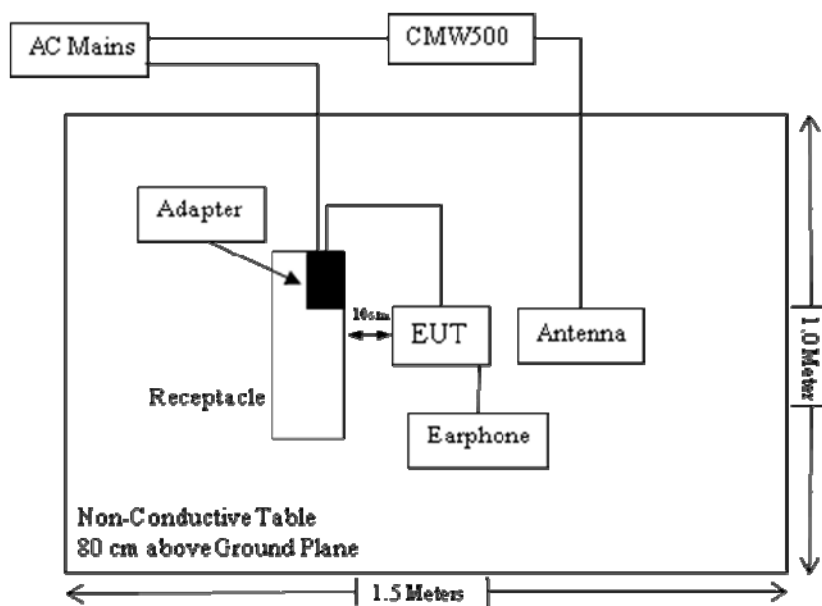
| Manufacturer | Description | Model | Serial Number |
|-----------------|--------------------------------------|--------|---------------|
| Rohde & Schwarz | Universal Radio Communication Tester | CMW500 | 146520 |

External I/O Cable

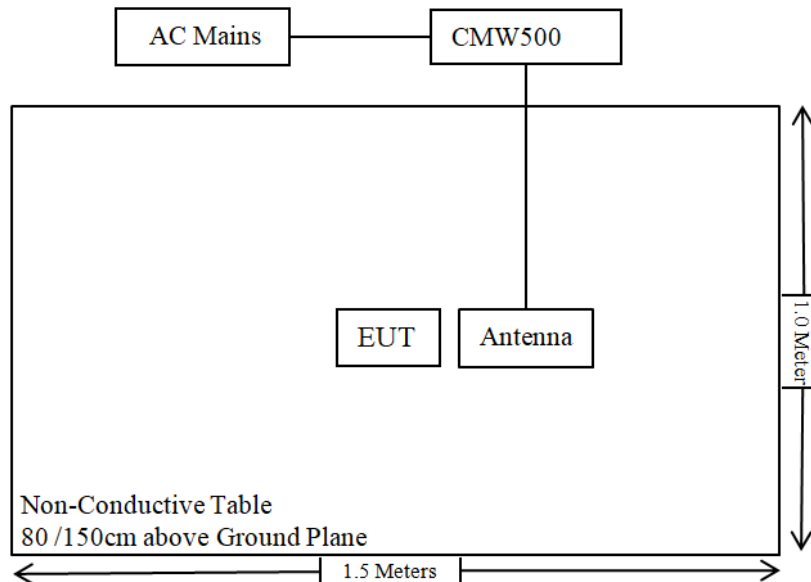
| Cable Description | Length (m) | From Port | To |
|------------------------------------|------------|------------|----------|
| Un-Shielded Detachable AC Cable | 1.5 | CMW500 | AC Mains |
| Unshielded Un-detachable AC Cable | 1.5 | Receptacle | AC Mains |
| Un-shielding Detachable USB Cable | 0.8 | EUT | Adapter |
| Un-shielded Detachable Audio cable | 1.2 | EUT | Earphone |

Block Diagram of Test Setup

For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---|--|-----------|
| FCC§2.1046; §22.913 (a)(d); §24.232 (c)(d); §27.50(d)(h) | RF Output Power | Compliant |
| FCC§2.1049; §22.905; §22.917; §24.238; §27.53 | Occupied Bandwidth | Compliant |
| FCC§2.1053; §22.917 (a); § 24.238 (a); §27.53 | Spurious Emissions at Antenna Terminal | Compliant |
| FCC §22.917 (a); § 24.238 (a); §27.53(h)(m) | Out of band emission, Band Edge | Compliant |
| FCC§2.1055; § 22.355; § 24.235; §27.54 | Frequency stability vs. temperature &Frequency stability vs. voltage Compliance | Compliant |
| FCC§2.1053; §22.917 (a); § 24.238 (a); §27.53 | Field Strength of Spurious Radiation | Compliant |
| FCC §1.1307 & §2.1093 | RF Exposure | Compliant |

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-------------------------------|-------------------------------------|-----------------|---------------|------------------|----------------------|
| Radiated Emission Test | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESR3 | 102455 | 2024/12/04 | 2025/12/03 |
| Sonoma instrument | Pre-amplifier | 310N | 186238 | 2024/05/21 | 2025/05/20 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2023/07/20 | 2026/07/19 |
| Unknown | Cable | Chamber Cable 1 | F-03-EM236 | 2024/06/18 | 2025/06/17 |
| Unknown | Cable | XH500C | J-10M-A | 2024/06/18 | 2025/06/17 |
| COM-POWER | Dipole Antenna | 3121C | 9209-860 | NCR | NCR |
| Rohde&Schwarz | Spectrum Analyzer | FSV40 | 101605 | 2024/03/27 | 2025/03/26 |
| A.H.System | Preamplifier | PAM-0118P | 489 | 2024/11/15 | 2025/11/14 |
| Schwarzbeck | Horn Antenna | BBHA9120D(1201) | 1143 | 2023/07/26 | 2026/07/25 |
| The Electro-Mechanics Co. | Horn Antenna | 3115 | 9107-3694 | 2024/06/06 | 2027/06/05 |
| Unknown | RF Cable | KMSE | 0735 | 2024/12/06 | 2025/12/05 |
| Unknown | RF Cable | UFA147 | 219661 | 2024/12/06 | 2025/12/05 |
| Unknown | RF Cable | XH750A-N | J-10M | 2024/12/06 | 2025/12/05 |
| JD | Filter Switch Unit | DT7220FSU | DS79906 | 2024/09/09 | 2025/09/08 |
| JD | Multiplex Switch Test Control Set | DT7220SCU | DS79903 | 2024/09/09 | 2025/09/08 |
| A.H.System | Pre-amplifier | PAM-1840VH | 190 | 2024/06/18 | 2025/06/17 |
| Electro-Mechanics Co | Horn Antenna | 3116 | 9510-2270 | 2023/09/18 | 2026/09/17 |
| Electro-Mechanics Co | Horn Antenna | 3116 | 2026 | 2023/09/18 | 2026/09/17 |
| UTIFLEX | RF Cable | NO. 13 | 232308-001 | 2024/12/18 | 2025/12/17 |
| Agilent | Signal Generator | N5183A | MY50140588 | 2024/09/13 | 2025/09/12 |
| RF Conducted Test | | | | | |
| Rohde & Schwarz | Spectrum Analyzer | FSV40 | 101473 | 2024/12/04 | 2025/12/03 |
| Rohde & Schwarz | Wideband Radio Communication Tester | CMW500 | 146520 | 2024/05/21 | 2025/05/20 |
| WEINSCHL | 3dB Attenuator | Unknown | F-03-EM220 | 2024/06/27 | 2025/06/26 |
| narda | Power divider | SN5 | 100005 | 2024/06/27 | 2025/06/26 |
| Micro-Tronics | RF Cable | 8082135 | W1113 | 2024/06/27 | 2025/06/26 |
| BACL | Temperature & Humidity Chamber | BTH-150-40 | 30145 | 2024/12/06 | 2025/12/05 |
| instek | DC Power Supply | GPS-3030DD | EM832096 | NCR | NCR |
| Fluke | Digital Multimeter | 287 | 19000011 | 2024/05/21 | 2025/05/20 |

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

REQUIREMENTS AND TEST PROCEDURES

Applicable Standard for Part 22 Subpart H

RF Output Power

FCC §22.913

(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.

(d) *Power measurement.* Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:

- (1) A Commission-approved average power technique (*see* FCC Laboratory's Knowledge Database); or
- (2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, *etc.*, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

Spurious Emissions

FCC §22.917

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:

- (1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

Frequency stability

FCC §22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1 - Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency range (MHz) | Base, fixed (ppm) | Mobile >3 watts (ppm) | Mobile ≤3 watts (ppm) |
|--------------------------|----------------------|--------------------------|-----------------------------|
| 25 to 50 | 20 | 20 | 50 |
| 50 to 450 | 5 | 5 | 50 |
| 450 to 512 | 2.5 | 5 | 5 |
| 821 to 896 | 1.5 | 2.5 | 2.5 |
| 928 to 929 | 5 | n/a | n/a |
| 929 to 960 | 1.5 | n/a | n/a |
| 2110 to 2220 | 10 | n/a | n/a |

Applicable Standard for Part 24 Subpart E

RF Output Power

FCC §24.232

(c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

(d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Spurious Emissions

FCC §24.238

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

Frequency stability

FCC §24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Applicable Standard for Part 27

RF Output Power

FCC §27.50

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(h) The following power limits shall apply in the BRS and EBS:

(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Spurious Emissions

FCC §27.53

(h) AWS emission limits

(1) **General protection levels.** Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Frequency stability

FCC §27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Method

Transmitter output power, e.r.p. and e.i.r.p

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5 and KDB 971168 D01 Power Meas License Digital Systems v03r01:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

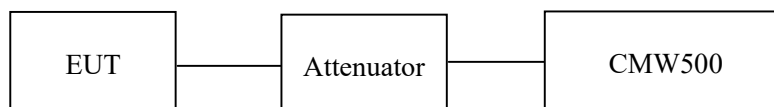
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Note: The ERP is for below 1GHz, EIRP is for above 1GHz.

Test Setup Block:



The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.

Occupied Bandwidth

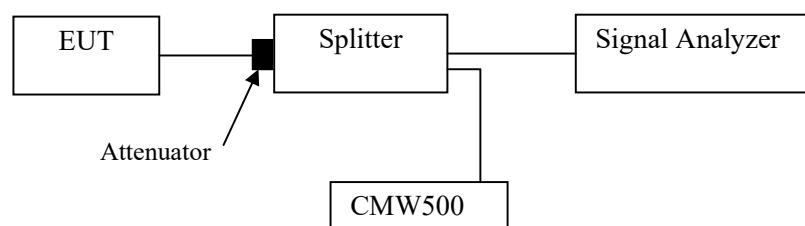
According to ANSI C63.26-2015 Section 5.4.4

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

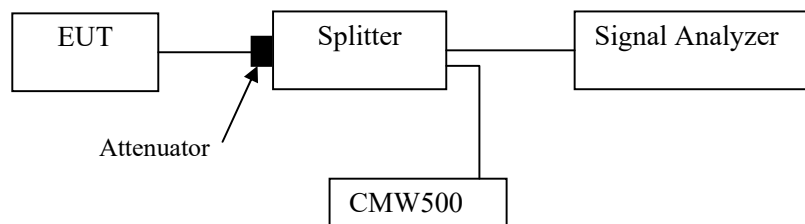
Test Setup Block:



Transmitter unwanted emissions-at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4, KDB 971168 D01 Power Meas License Digital Systems v03r01:

the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz),8 effectively depicting the unwanted emission limit in terms of a power spectral density. In those cases where no reference bandwidth is explicitly specified, the values in the preceding sentence should be used.

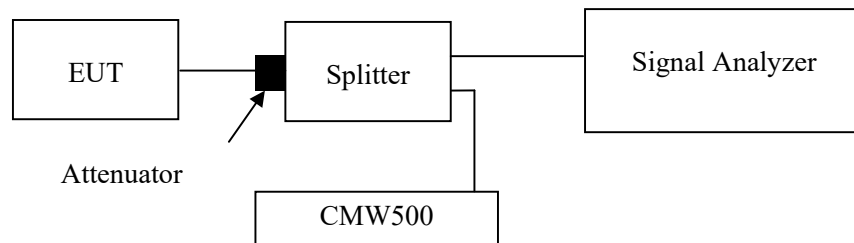
Test Setup Block:

Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range was added into plots.

Transmitter unwanted emissions-Out of band emission

According to ANSI C63.26-2015 Section 5.7.3, KDB 971168 D01 Power Meas License Digital Systems v03r01:

Typically, a measurement (resolution) bandwidth smaller than the reference bandwidth is allowed for measurements within a specified frequency range at the edge of the authorized frequency block/band (e.g., within the first Y MHz outside of the authorized frequency band/block, where the value of Y is specified in the relevant rule part). Some FCC out-of-band emission rules permit the use of a narrower RBW (typically limited to a minimum RBW of 1 % of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth. Beyond the specified frequency range in which this relaxation of the uniform reference bandwidth is permitted, it typically is also acceptable to use a narrower RBW (again limited to a minimum of 1 % of OBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

Test Setup Block:

Frequency stability

According to ANSI C63.26-2015 Section 5.6, KDB 971168 D01 Power Meas License Digital Systems v03r01:

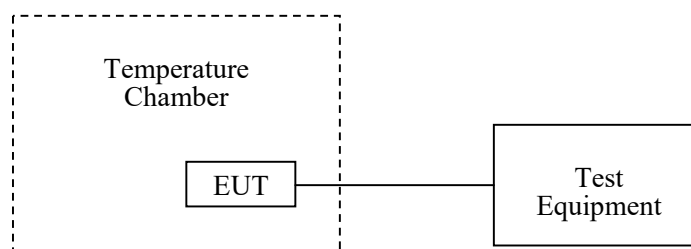
Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

- a) At 10 °C intervals of temperatures between –30 °C and +50 °C at the manufacturer's rated supply voltage, and
- b) At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage then the –15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

Test Setup Block:

Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

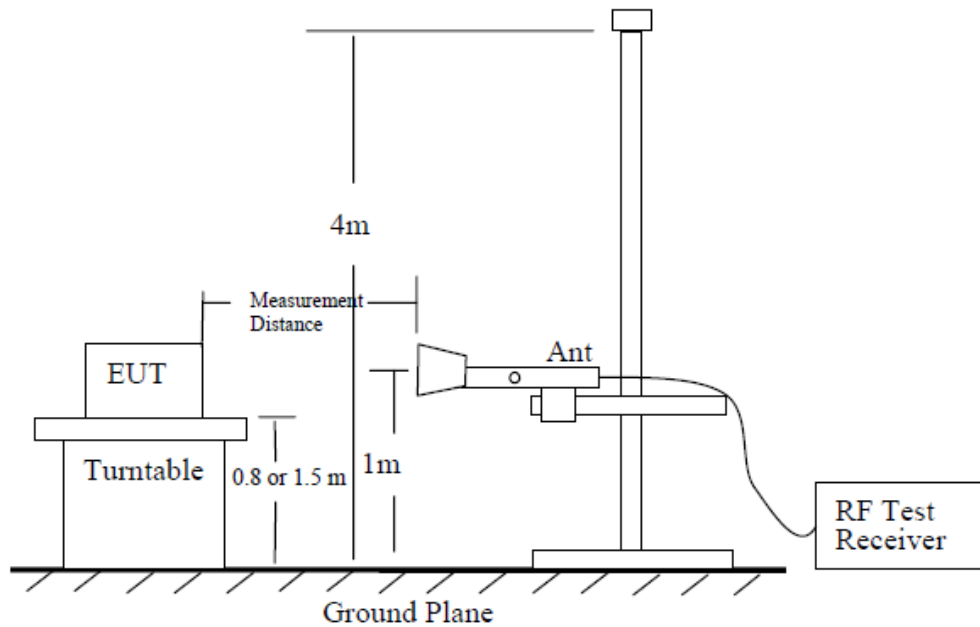
Test setup:

Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

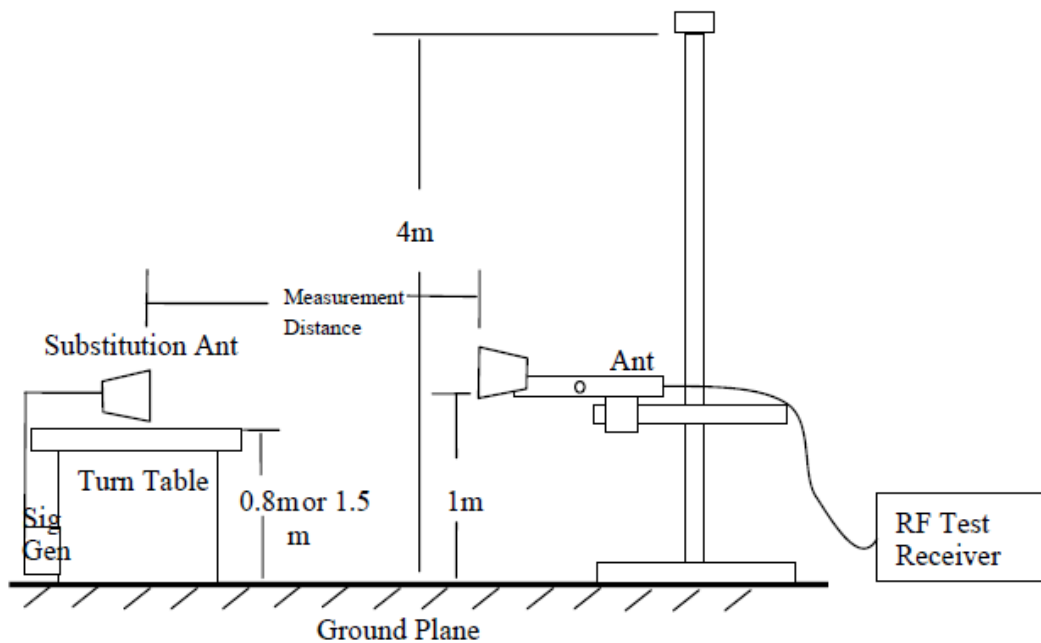


Figure 7 —Substitution method set-up for radiated emission

Test Procedure:

- a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.
- b) Each emission under consideration shall be evaluated:
 - 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:
 - 1) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - 2) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).
 - 3) Record the output power level of the signal generator when equivalence is achieved in step 2).
- h) Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.
- i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
$$P_e = \text{equivalent emission power in dBm}$$
$$P_s = \text{source (signal generator) power in dBm}$$
NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: $\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}$. If necessary, the antenna gain can be calculated from calibrated antenna factor information
- k) Provide the complete measurement results as a part of the test report.

TEST DATA AND RESULTS

Spurious Radiated Emissions

Environmental Conditions

| | | | |
|---------------------|--|-----------------------|-----------------------|
| Temperature (°C) | 24-25 | Relative Humidity (%) | 53-54 |
| ATM Pressure (kPa): | 101-101.3 | Test engineer: | Alex Yan & Zenos Qiao |
| Test date: | 2024.12.22-2025.02.26 | | |
| EUT operation mode: | Transmitting | | |
| Note: | 1. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. 2. For LTE bands, only the worst case was recorded, please refer to the data tables. | | |

| Frequency (MHz) | Receiver Reading (dBμV) | Polar (H / V) | Substituted | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
| | | | Substituted Level (dBm) | Cable Loss (dB) | Antenna Gain (dBi/dBd) | | | |
| GSM 850 (30MHz-10GHz) | | | | | | | | |
| Low Channel | | | | | | | | |
| 388.4 | 44.92 | H | -61.6 | 1 | 0 | -62.60 | -13 | 49.60 |
| 90.4 | 40.86 | V | -67.5 | 0.75 | 0 | -68.25 | -13 | 55.25 |
| 1648.4 | 62.42 | H | -51.9 | 1.5 | 8.6 | -44.80 | -13 | 31.80 |
| 1648.4 | 61.41 | V | -53.5 | 1.5 | 8.6 | -46.40 | -13 | 33.40 |
| 2472.6 | 65.7 | H | -48.5 | 1.5 | 9.5 | -40.50 | -13 | 27.50 |
| 2472.6 | 59.61 | V | -54.4 | 1.5 | 9.5 | -46.40 | -13 | 33.40 |
| Middle Channel | | | | | | | | |
| 389.8 | 45.14 | H | -61.4 | 1 | 0 | -62.40 | -13 | 49.40 |
| 90.2 | 41.01 | V | -67.4 | 0.75 | 0 | -68.15 | -13 | 55.15 |
| 1673.2 | 65.72 | H | -48.5 | 1.5 | 8.8 | -41.20 | -13 | 28.20 |
| 1673.2 | 55.01 | V | -59.7 | 1.5 | 8.8 | -52.40 | -13 | 39.40 |
| 2509.8 | 65.01 | H | -49.2 | 1.5 | 9.5 | -41.20 | -13 | 28.20 |
| 2509.8 | 58.92 | V | -55.1 | 1.5 | 9.5 | -47.10 | -13 | 34.10 |
| High Channel | | | | | | | | |
| 385.4 | 45.26 | H | -61.2 | 1 | 0 | -62.20 | -13 | 49.20 |
| 90.3 | 41.12 | V | -67.3 | 0.75 | 0 | -68.05 | -13 | 55.05 |
| 1697.6 | 59.42 | H | -54.8 | 1.5 | 8.8 | -47.50 | -13 | 34.50 |
| 1697.6 | 48.3 | V | -66.4 | 1.5 | 8.8 | -59.10 | -13 | 46.10 |
| 2546.4 | 56.9 | H | -57.3 | 1.5 | 9.5 | -49.30 | -13 | 36.30 |
| 2546.4 | 63.21 | V | -50.8 | 1.5 | 9.5 | -42.80 | -13 | 29.80 |

| Frequency (MHz) | Receiver Reading (dBμV) | Polar (H / V) | Substituted | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
| | | | Substituted Level (dBm) | Cable Loss (dB) | Antenna Gain (dBi/dBd) | | | |
| PCS 1900 (30MHz-20GHz) | | | | | | | | |
| Low Channel | | | | | | | | |
| 383.9 | 45.02 | H | -61.5 | 1 | 0 | -62.50 | -13 | 49.50 |
| 90.1 | 40.98 | V | -67.4 | 0.75 | 0 | -68.15 | -13 | 55.15 |
| 3700.4 | 64.42 | H | -48.4 | 2.1 | 9.7 | -40.80 | -13 | 27.80 |
| 3700.4 | 68.61 | V | -44 | 2.1 | 9.7 | -36.40 | -13 | 23.40 |
| Middle Channel | | | | | | | | |
| 386.4 | 45.36 | H | -61.1 | 1 | 0 | -62.10 | -13 | 49.10 |
| 90 | 41.24 | V | -67.2 | 0.75 | 0 | -67.95 | -13 | 54.95 |
| 3760 | 52.12 | H | -61.3 | 2 | 9.6 | -53.70 | -13 | 40.70 |
| 3760 | 52.61 | V | -60.7 | 2 | 9.6 | -53.10 | -13 | 40.10 |
| High Channel | | | | | | | | |
| 385.1 | 45.47 | H | -61 | 1 | 0 | -62.00 | -13 | 49.00 |
| 90.4 | 41.31 | V | -67.1 | 0.75 | 0 | -67.85 | -13 | 54.85 |
| 3819.6 | 68.13 | H | -45.3 | 2 | 9.6 | -37.70 | -13 | 24.70 |
| 3819.6 | 72.1 | V | -41.2 | 2 | 9.6 | -33.60 | -13 | 20.60 |
| WCDMA Band 2 (30MHz-20GHz) | | | | | | | | |
| Low Channel | | | | | | | | |
| 386.2 | 45.12 | H | -61.4 | 1 | 0 | -62.40 | -13 | 49.40 |
| 91.3 | 41.03 | V | -67.4 | 0.75 | 0 | -68.15 | -13 | 55.15 |
| 3704.8 | 55.92 | H | -56.9 | 2.1 | 9.7 | -49.30 | -13 | 36.30 |
| 3704.8 | 56.41 | V | -56.2 | 2.1 | 9.7 | -48.60 | -13 | 35.60 |
| Middle Channel | | | | | | | | |
| 386.4 | 45.29 | H | -61.2 | 1 | 0 | -62.20 | -13 | 49.20 |
| 92 | 41.13 | V | -67.3 | 0.75 | 0 | -68.05 | -13 | 55.05 |
| 3760 | 57.32 | H | -56.1 | 2 | 9.6 | -48.50 | -13 | 35.50 |
| 3760 | 57.71 | V | -55.6 | 2 | 9.6 | -48.00 | -13 | 35.00 |
| High Channel | | | | | | | | |
| 386.3 | 45.48 | H | -61 | 1 | 0 | -62.00 | -13 | 49.00 |
| 90.6 | 41.35 | V | -67.1 | 0.75 | 0 | -67.85 | -13 | 54.85 |
| 3815.2 | 56.91 | H | -56.5 | 2 | 9.6 | -48.90 | -13 | 35.90 |
| 3815.2 | 58.62 | V | -54.7 | 2 | 9.6 | -47.10 | -13 | 34.10 |

| Frequency (MHz) | Receiver Reading (dBμV) | Polar (H / V) | Substituted | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
| | | | Substituted Level (dBm) | Cable Loss (dB) | Antenna Gain (dBi/dBd) | | | |
| WCDMA Band 5 (30MHz-10GHz) | | | | | | | | |
| Low Channel | | | | | | | | |
| 386.4 | 45.31 | H | -61.2 | 1 | 0 | -62.20 | -13 | 49.20 |
| 91.3 | 41.18 | V | -67.2 | 0.75 | 0 | -67.95 | -13 | 54.95 |
| 1652.8 | 60.71 | H | -53.5 | 1.5 | 8.8 | -46.20 | -13 | 33.20 |
| 1652.8 | 59.7 | V | -55 | 1.5 | 8.8 | -47.70 | -13 | 34.70 |
| 2479.2 | 51.02 | H | -63.2 | 1.5 | 9.5 | -55.20 | -13 | 42.20 |
| 2479.2 | 56.01 | V | -58 | 1.5 | 9.5 | -50.00 | -13 | 37.00 |
| Middle Channel | | | | | | | | |
| 386.4 | 45.55 | H | -61 | 1 | 0 | -62.00 | -13 | 49.00 |
| 91.2 | 41.39 | V | -67 | 0.75 | 0 | -67.75 | -13 | 54.75 |
| 1672.8 | 58.81 | H | -55.4 | 1.5 | 8.8 | -48.10 | -13 | 35.10 |
| 1672.8 | 55 | V | -59.7 | 1.5 | 8.8 | -52.40 | -13 | 39.40 |
| 2509.2 | 51.91 | H | -62.3 | 1.5 | 9.5 | -54.30 | -13 | 41.30 |
| 2509.2 | 56.4 | V | -57.6 | 1.5 | 9.5 | -49.60 | -13 | 36.60 |
| High Channel | | | | | | | | |
| 386.4 | 45.68 | H | -60.8 | 1 | 0 | -61.80 | -13 | 48.80 |
| 90.2 | 41.51 | V | -66.9 | 0.75 | 0 | -67.65 | -13 | 54.65 |
| 1693.2 | 56.91 | H | -57.3 | 1.5 | 8.8 | -50.00 | -13 | 37.00 |
| 1693.2 | 57.01 | V | -57.7 | 1.5 | 8.8 | -50.40 | -13 | 37.40 |
| 2539.8 | 53.7 | H | -60.5 | 1.5 | 9.5 | -52.50 | -13 | 39.50 |
| 2539.8 | 58.4 | V | -55.6 | 1.5 | 9.5 | -47.60 | -13 | 34.60 |
| LTE Band 2 (30MHz-20GHz) | | | | | | | | |
| QPSK 1.4MHz Bandwidth__RB1#0, Low Channel | | | | | | | | |
| 390.4 | 45.43 | H | -61.1 | 1 | 0 | -62.10 | -13 | 49.10 |
| 89.2 | 41.21 | V | -67.2 | 0.75 | 0 | -67.95 | -13 | 54.95 |
| 3701.4 | 55.41 | H | -57.4 | 2.1 | 9.7 | -49.80 | -13 | 36.80 |
| 3701.4 | 55.6 | V | -57 | 2.1 | 9.7 | -49.40 | -13 | 36.40 |
| QPSK 1.4MHz Bandwidth__RB1#0, Middle Channel | | | | | | | | |
| 386.4 | 45.51 | H | -61 | 1 | 0 | -62.00 | -13 | 49.00 |
| 90.1 | 41.37 | V | -67 | 0.75 | 0 | -67.75 | -13 | 54.75 |
| 3760 | 58.1 | H | -55.3 | 2 | 9.6 | -47.70 | -13 | 34.70 |
| 3760 | 59.02 | V | -54.3 | 2 | 9.6 | -46.70 | -13 | 33.70 |
| QPSK 1.4MHz Bandwidth__RB1#0, High Channel | | | | | | | | |
| 378.5 | 45.75 | H | -60.8 | 1 | 0 | -61.80 | -13 | 48.80 |
| 89.9 | 41.52 | V | -66.9 | 0.75 | 0 | -67.65 | -13 | 54.65 |
| 3818.6 | 59.31 | H | -54.1 | 2 | 9.6 | -46.50 | -13 | 33.50 |
| 3818.6 | 58.61 | V | -54.7 | 2 | 9.6 | -47.10 | -13 | 34.10 |

| Frequency (MHz) | Receiver Reading (dBμV) | Polar (H / V) | Substituted | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
| | | | Substituted Level (dBm) | Cable Loss (dB) | Antenna Gain (dBi/dBd) | | | |
| LTE Band 4 (30MHz-20GHz) | | | | | | | | |
| QPSK 1.4MHz Bandwidth__RB1#0, Low channel | | | | | | | | |
| 379.3 | 45.82 | H | -60.7 | 1 | 0 | -61.70 | -13 | 48.70 |
| 90.1 | 41.63 | V | -66.8 | 0.75 | 0 | -67.55 | -13 | 54.55 |
| 3421.4 | 54.41 | H | -59.4 | 1.7 | 9.6 | -51.50 | -13 | 38.50 |
| 3421.4 | 52.92 | V | -60.6 | 1.7 | 9.6 | -52.70 | -13 | 39.70 |
| 5132.1 | 53.91 | H | -58.7 | 2.6 | 10.6 | -50.70 | -13 | 37.70 |
| 5132.1 | 53.51 | V | -58.5 | 2.6 | 10.6 | -50.50 | -13 | 37.50 |
| QPSK 1.4MHz Bandwidth__RB1#0, Middle channel | | | | | | | | |
| 387.4 | 45.74 | H | -60.8 | 1 | 0 | -61.80 | -13 | 48.80 |
| 90.3 | 41.6 | V | -66.8 | 0.75 | 0 | -67.55 | -13 | 54.55 |
| 3465 | 52.6 | H | -60.9 | 1.8 | 9.7 | -53.00 | -13 | 40.00 |
| 3465 | 52.81 | V | -60.4 | 1.8 | 9.7 | -52.50 | -13 | 39.50 |
| 5197.5 | 52.31 | H | -60.2 | 2.4 | 10.6 | -52.00 | -13 | 39.00 |
| 5197.5 | 51.6 | V | -60.5 | 2.4 | 10.6 | -52.30 | -13 | 39.30 |
| QPSK 1.4MHz Bandwidth__RB1#0, High channel | | | | | | | | |
| 387.9 | 45.96 | H | -60.5 | 1 | 0 | -61.50 | -13 | 48.50 |
| 90.1 | 41.84 | V | -66.6 | 0.75 | 0 | -67.35 | -13 | 54.35 |
| 3508.6 | 53.1 | H | -60.4 | 1.8 | 9.7 | -52.50 | -13 | 39.50 |
| 3508.6 | 52.51 | V | -60.7 | 1.8 | 9.7 | -52.80 | -13 | 39.80 |
| 5262.9 | 51.82 | H | -60.1 | 2.2 | 10.6 | -51.70 | -13 | 38.70 |
| 5262.9 | 51.51 | V | -60.2 | 2.2 | 10.6 | -51.80 | -13 | 38.80 |
| LTE Band 7 (30MHz-27GHz) | | | | | | | | |
| QPSK 5MHz Bandwidth__RB1#0, Low channel | | | | | | | | |
| 384.9 | 45.87 | H | -60.6 | 1 | 0 | -61.60 | -25 | 36.60 |
| 90.2 | 41.67 | V | -66.7 | 0.75 | 0 | -67.45 | -25 | 42.45 |
| 5005 | 68.5 | H | -44.2 | 2 | 10.6 | -35.60 | -25 | 10.60 |
| 5005 | 66.51 | V | -45.5 | 2 | 10.6 | -36.90 | -25 | 11.90 |
| QPSK 5MHz Bandwidth__RB1#0, Middle channel | | | | | | | | |
| 384.6 | 46.06 | H | -60.4 | 1 | 0 | -61.40 | -25 | 36.40 |
| 89.8 | 41.89 | V | -66.5 | 0.75 | 0 | -67.25 | -25 | 42.25 |
| 5070 | 67.3 | H | -45.3 | 2.6 | 10.6 | -37.30 | -25 | 12.30 |
| 5070 | 66.4 | V | -45.6 | 2.6 | 10.6 | -37.60 | -25 | 12.60 |
| QPSK 5MHz Bandwidth__RB1#0, High channel | | | | | | | | |
| 381.6 | 46.25 | H | -60.3 | 1 | 0 | -61.30 | -25 | 36.30 |
| 89.9 | 41.97 | V | -66.4 | 0.75 | 0 | -67.15 | -25 | 42.15 |
| 5135 | 67.31 | H | -45.3 | 2.6 | 10.6 | -37.30 | -25 | 12.30 |
| 5135 | 66.31 | V | -45.7 | 2.6 | 10.6 | -37.70 | -25 | 12.70 |

| Frequency (MHz) | Receiver Reading (dBμV) | Polar (H / V) | Substituted | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|--|-------------------------------|------------------|-------------------------------|-----------------------|------------------------------|----------------------------|----------------|----------------|
| | | | Substituted Level (dBm) | Cable Loss (dB) | Antenna Gain (dBi/dBd) | | | |
| LTE Band 38 (30MHz-27GHz) | | | | | | | | |
| QPSK 5MHz Bandwidth__RB1#0, Low channel | | | | | | | | |
| 382.7 | 46.42 | H | -60.1 | 1 | 0 | -61.10 | -25 | 36.10 |
| 90.3 | 42.17 | V | -66.2 | 0.75 | 0 | -66.95 | -25 | 41.95 |
| 5145 | 59.5 | H | -53.1 | 2.6 | 10.6 | -45.10 | -25 | 20.10 |
| 5145 | 62.31 | V | -49.7 | 2.6 | 10.6 | -41.70 | -25 | 16.70 |
| QPSK 5MHz Bandwidth__RB1#0, Middle channel | | | | | | | | |
| 379.2 | 46.74 | H | -59.8 | 1 | 0 | -60.80 | -25 | 35.80 |
| 90.3 | 42.49 | V | -65.9 | 0.75 | 0 | -66.65 | -25 | 41.65 |
| 5190 | 53.9 | H | -58.6 | 2.4 | 10.6 | -50.40 | -25 | 25.40 |
| 5190 | 58.41 | V | -53.7 | 2.4 | 10.6 | -45.50 | -25 | 20.50 |
| QPSK 5MHz Bandwidth__RB1#0, High channel | | | | | | | | |
| 378.9 | 47 | H | -59.5 | 1 | 0 | -60.50 | -25 | 35.50 |
| 90.3 | 42.87 | V | -65.5 | 0.75 | 0 | -66.25 | -25 | 41.25 |
| 5235 | 55.31 | H | -57.2 | 2.4 | 10.6 | -49.00 | -25 | 24.00 |
| 5235 | 58.61 | V | -53.5 | 2.4 | 10.6 | -45.30 | -25 | 20.30 |

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Limit-Absolute Level

RF Conducted data

Please refer to Annex "Appendix E&F&G" for detail test data.

RF EXPOSURE EVALUATION

RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliant, please refer to the SAR report: 2401A35544E-SAA.

EUT PHOTOGRAPHS

Please refer to the attachment 2401A35544E-RF External photo and 2401A35544E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401A35544E-RFC Test Setup photo.

******* END OF REPORT *******