



# Spot Check Evaluation

FCC ID : UZ7EM45A1  
EQUIPMENT : Enterprise Mobile  
BRAND NAME : Zebra  
MODEL NAME : EM45A1  
APPLICANT : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
MANUFACTURER : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
STANDARD : 47 CFR Part 22(H), 24(E), 27(L), 27(D), 27(H), 27(F),  
27(M), 27(N), 27(O), 27(Q), 90(S), 90(R), 96  
47 CFR Part 15 Subpart C §15.247  
47 CFR Part 15 Subpart C §15.225  
47 CFR Part 15 Subpart E §15.407

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

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People's Republic of China**



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FG460505-02N | Rev. 01 | Initial issue of report | Feb. 12, 2025 |
|              |         |                         |               |
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# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature |                                                                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment       | Enterprise Mobile                                                                                                                                                                    |
| Brand Name      | Zebra                                                                                                                                                                                |
| Model Name      | EM45A1                                                                                                                                                                               |
| FCC ID          | UZ7EM45A1                                                                                                                                                                            |
| IMEI Code       | Conducted: 354708620060822/354708620063123<br>Conduction: 354708620060426/354708620064352<br>Radiation: 354708620060269/ 354708620064113<br>DFS/CBP: 354708620060657/354708620063206 |
| HW Version      | DV                                                                                                                                                                                   |
| SW Version      | 14-24-09.00-UG-U00-PRD-ATH-04                                                                                                                                                        |
| MFD             | 09DEC24                                                                                                                                                                              |
| EUT Stage       | Identical Prototype                                                                                                                                                                  |

| Specification of Accessory |            |       |             |                |
|----------------------------|------------|-------|-------------|----------------|
| Battery                    | Brand Name | Zebra | Model       | BT-000501      |
|                            |            |       | Part Number | BT-000501-2000 |

| Supported Unit used in test configuration and system |            |       |             |                    |
|------------------------------------------------------|------------|-------|-------------|--------------------|
| AC Adapter 1<br>(Type C Wall Charger 1)              | Brand Name | Zebra | Model       | SAWA-102-22520A    |
|                                                      |            |       | Part Number | PWR-WUA5V45W1US    |
| AC Adapter 2<br>(Type A Wall Charger 2)              | Brand Name | Zebra | Model       | SAWA-65-20005A     |
|                                                      |            |       | Part Number | PWR-WUA5V12W0US    |
| Earphone 1<br>(Wired headset USB-C)                  | Brand Name | Zebra | Part Number | HDST-USBC-PTT1-01  |
| Earphone 2<br>(Rugged Bluetooth Headset)             | Brand Name | Zebra | Part Number | HS3100-OTH         |
| Earphone 3<br>(3.5mm PTT Headset)                    | Brand Name | Zebra | Part Number | HDST-35MM-PTT1-02  |
| Earphone 4<br>(Rugged Headset)                       | Brand Name | Zebra | Part Number | HS2100-OTH         |
| 3.5mm to 3.5mm audio connector                       | Brand Name | Zebra | Part Number | CBL-HS2100-3MS1-01 |
| Type C-Audio Cable<br>(Type C to 3.5mm)              | Brand Name | Zebra | Part Number | ADP-USBC-35MM1-01  |
| USB Cable 1<br>(USB-C to C Cable)                    | Brand Name | Zebra | Part Number | CBL-EC5X-USBC3A-01 |
| USB Cable 2<br>(USB-A to C Cable)                    | Brand Name | Zebra | Part Number | CBL-TC5X-USBC2A-01 |
| EM45 Protective Case                                 | Brand Name | Zebra | Part Number | SG-EM45EXO2-01     |



## 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.3 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                           |                                                                                                                                                |                            |                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Kunshan)                                                                                                           |                            |                                       |
| <b>Test Site Location</b> | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                        | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-KS<br>CO01-KS<br>DFS01-KS<br>03CH02-KS<br>03CH04-KS<br>03CH06-KS                                                                          | CN1257                     | 314309                                |

## 1.4 Test Software

| Item | Site      | Manufacturer | Name                                 | Version       |
|------|-----------|--------------|--------------------------------------|---------------|
| 1.   | TH01-KS   | Tonscend     | JS1120-3 test system<br>China_210602 | 3.3.10        |
| 2.   | 03CH02-KS | AUDIX        | E3                                   | 6.2009-8-24a1 |
| 3.   | 03CH04-KS | AUDIX        | E3                                   | 210616        |
| 4.   | 03CH06-KS | AUDIX        | E3                                   | 210616        |
| 5.   | DFS01-KS  | Sporton      | Test Tools                           | 1.0           |
| 6.   | CO01-KS   | AUDIX        | E3                                   | 6.2009-8-24   |

## 1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r03
- ♦ 47 CFR Part 22(H), 24(E), 27(L), 27(D), 27(H), 27(F), 27(M), 27(N), 27(O), 27(Q), 90(S), 90(R), 96
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407



## **2 Re-use of Measured Data**

### **2.1 Introduction Section**

This application re-uses data collected on a similar device. The subject device of this application (Model: EM45A1, FCC ID: UZ7EM45A1) is electrically identical to the reference device (Model: EM45A2, FCC ID: UZ7EM45A2) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, and for SAR Reference detail, please refer to FCC SAR report FA460505-02.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transmission conditions.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: UZ7EM45A1.

### **2.2 Model Difference Information**

The **main** difference between FCC ID: UZ7EM45A2 and FCC ID: UZ7EM45A1 is as below:

- Removed RFID function.
- Antenna 1 removed WWAN TX function, keep supported Low bands and Middle bands RX function.

Other differences and all the details of similarity and difference can be found in the confidential documents (UZ7EM45A1 Operational Description of Product Equality Declaration).



## 2.3 Reference detail Section:

| Rule Part                       | Equipment Class | Frequency Band (MHz)                                                        | Reference FCC ID (Parent) | Reference on test | Reference Title                                               | FCC ID Filling (Variant) | Test on the variant | Data Referencing (Y/N) |
|---------------------------------|-----------------|-----------------------------------------------------------------------------|---------------------------|-------------------|---------------------------------------------------------------|--------------------------|---------------------|------------------------|
| 15C                             | DSS (BR/EDR)    | 2400~2483.5                                                                 | UZ7EM45A2                 | Full test         | FR460505A                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | DTS (BLE)       | 2400~2483.5                                                                 | UZ7EM45A2                 | Full test         | FR460505B                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | DTS (WLAN)      | 2400~2483.5                                                                 | UZ7EM45A2                 | Full test         | FR460505C                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | DXX (NFC)       | 13.56                                                                       | UZ7EM45A2                 | Full test         | FR460505D                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
| 15E                             | U-NII           | 5180~5240                                                                   | UZ7EM45A2                 | Full test         | FR460505E                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 |                 | 5260~5320                                                                   | UZ7EM45A2                 | Full test         | FR460505E                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 |                 | 5500~5720                                                                   | UZ7EM45A2                 | Full test         | FR460505E                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 |                 | 5745~5825                                                                   | UZ7EM45A2                 | Full test         | FR460505E                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 |                 | 5260~5320<br>5500~5720                                                      | UZ7EM45A2                 | Full test         | FZ460505                                                      | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | 6CD             | 5925~7125                                                                   | UZ7EM45A2                 | Full test         | FR460505G<br>FR460505H                                        | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
| 22,<br>24,<br>27,<br>90,<br>96, | PCE (WCDMA)     | Band II, IV, V                                                              | UZ7EM45A2                 | Full test         | FG460505A                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (LTE)       | B2/4/5/7/12/13/17/25/<br>26/30/38/41/66/71<br>ULCA 5B/7C/38C<br>41C/66B/66C | UZ7EM45A2                 | Full test         | FG460505B<br>FG460505C<br>FG460505D<br>FG460505G<br>FG460505J | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (LTE)       | B14 (90R)                                                                   | UZ7EM45A2                 | Full test         | FG460505E                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (LTE)       | B26 (90S)                                                                   | UZ7EM45A2                 | Full test         | FG460505F                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | CBE (LTE)       | B48/48C (Part96)                                                            | UZ7EM45A2                 | Full test         | FG460505H<br>FG460505I                                        | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (NR)        | n2/n5/n7/n12/n13/n25/<br>n26/n30/n38/n41/n66/<br>n71/n77/n78                | UZ7EM45A2                 | Full test         | FG460505K<br>FG460505L<br>FG460505O<br>FG460505R<br>FG460505S | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (NR)        | n14 (90R)                                                                   | UZ7EM45A2                 | Full test         | FG460505M                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | PCE (NR)        | n26 (90S)                                                                   | UZ7EM45A2                 | Full test         | FG460505N                                                     | UZ7EM45A1                | Spot check          | Y,<br>All test items   |
|                                 | CBE (NR)        | n48/n77/n78 (Part96)                                                        | UZ7EM45A2                 | Full test         | FG460505P<br>FG460505Q                                        | UZ7EM45A1                | Spot check          | Y,<br>All test items   |

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit



## 2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation  $d_{dB}$  from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

$V_{dB}$ , the variant spot-check level

$R_{dB}$ , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data  $R_{dB}$  is from the compliance threshold  $C_{dB}$  (also expressed in dB), for the particular test under consideration. In this case, if  $M_{dB} = |C_{dB} - R_{dB}|$  is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation  $d_{dB}$  from the reference data satisfies the following condition:

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

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB}, \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2),  $d_{dB}$  increases linearly from 3 dB to 6 dB.



Summary for spot check for each rule entry and technology is listed as below:

| Mode                                                      | Test Item                                          | UZ7EM45A2<br>Parent<br>Worst mode<br>Test Result | UZ7EM45A1<br>Variant<br>Check Test<br>Result | Deviation<br>(dB) | Deviation<br>Limit<br>(dB) |
|-----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|----------------------------------------------|-------------------|----------------------------|
| BT 1Mbps (CH78)                                           | Number of Channels                                 | 79                                               | 79                                           | 0                 | 3                          |
|                                                           | Hopping Channel Separation                         | 0.996                                            | 1.004                                        | 0.008             | 3                          |
|                                                           | Dwell Time of Each Channel                         | 0.31                                             | 0.31                                         | 0                 | 3                          |
|                                                           | 20dB Bandwidth                                     | 0.94                                             | 0.94                                         | 0                 | 3                          |
|                                                           | 99% Bandwidth                                      | 0.836                                            | 0.845                                        | 0.009             | 3                          |
|                                                           | Conducted Band Edges                               | -41.83                                           | -44.27                                       | 2.44              | 3                          |
|                                                           | Conducted Spurious Emission                        | -45.65                                           | -48                                          | 2.35              | 3                          |
| BT 1Mbps (CH39)                                           | Radiated Band Edges and Radiated Spurious Emission | 55.68                                            | 56.85                                        | 1.17              | 3                          |
| BT                                                        | AC Conducted Emission                              | 11.93                                            | 10.83                                        | 1.1               | 3                          |
| BLE 1Mbps (CH39)                                          | 6dB Bandwidth                                      | 1.15                                             | 1.15                                         | 0                 | 3                          |
|                                                           | 99% Bandwidth                                      | 2.01                                             | 2.014                                        | 0.004             | 3                          |
|                                                           | Power Spectral Density                             | -9.33                                            | -9.34                                        | 0.01              | 3                          |
|                                                           | Conducted Band Edges                               | -33.74                                           | -33.98                                       | 0.24              | 3                          |
|                                                           | Conducted Spurious Emission                        | -51.53                                           | -52.95                                       | 1.42              | 3                          |
| BLE 2Mbps (CH39)                                          | Radiated Band Edges and Spurious Emission          | 47.73                                            | 46.09                                        | 1.46              | 3                          |
| BLE                                                       | AC Conducted Emission                              | 11.93                                            | 10.83                                        | 1.1               | 3                          |
| WIFI 2.4G<br>(802.11b CH11)                               | 6dB Bandwidth                                      | 8.08                                             | 8.08                                         | 0                 | 3                          |
|                                                           | 99% Bandwidth                                      | 13.467                                           | 13.387                                       | 0.08              | 3                          |
|                                                           | Power Spectral Density                             | -1.15                                            | -1.27                                        | 0.12              | 3                          |
|                                                           | Conducted Band Edges                               | -47.96                                           | -48.2                                        | 0.24              | 3                          |
|                                                           | Conducted Spurious Emission                        | -43.67                                           | -45.68                                       | 2.01              | 3                          |
| WIFI 2.4G<br>(802.11ax HE20 CH11)                         | Radiated Band Edges and Spurious Emission          | 52.29                                            | 49.61                                        | 2.68              | 3                          |
| WIFI 2.4G                                                 | AC Conducted Emission                              | 11.93                                            | 10.83                                        | 1.1               | 3                          |
| WIFI 5G<br>(802.11a CH149)                                | 26dB Bandwidth                                     | 19.29                                            | 19.2                                         | 0.09              | 3                          |
| WIFI 5G<br>(802.11a CH149)                                | 99% Bandwidth                                      | 16.705                                           | 16.705                                       | 0                 | 3                          |
| WIFI 5G<br>(802.11a CH149)                                | Power Spectral Density                             | 8.3                                              | 7.99                                         | 0.31              | 3                          |
| WIFI 5G<br>(802.11a CH149)                                | Unwanted Emissions                                 | 16.31                                            | 16.31                                        | 0                 | 3                          |
| WIFI 5G<br>(11ax HE80 Ch42)                               | Radiated Band Edges and Spurious Emission          | 50.86                                            | 50.93                                        | 0.07              | 3                          |
| WIFI 5G                                                   | AC Conducted Emission                              | 12.50                                            | 11.33                                        | 1.17              | 3                          |
| WIFI 5G<br>(802.11a CH116)                                | DFS                                                | 0.851628                                         | 0.87852                                      | 0.026             | 3                          |
| FCC-WIFI 6G UNII-5<br>(802.11ax HE80 CH47<br>6185MHz)-6XD | 26dB Emission Bandwidth                            | 165.79                                           | 165.41                                       | 0.38              | 3                          |
|                                                           | 99% Occupied Bandwidth                             | 157.105                                          | 157.257                                      | 0.152             | 3                          |
|                                                           | Fundamental Maximum EIRP                           | 17.30                                            | 17.00                                        | 0.30              | 3                          |
|                                                           | Fundamental Power Spectral Density                 | -3.33                                            | -5.16                                        | 1.83              | 3                          |
|                                                           | In-Band Emissions                                  | -12.47                                           | -11.09                                       | 1.38              | 3                          |



|                                                           |                                              |          |          |        |   |
|-----------------------------------------------------------|----------------------------------------------|----------|----------|--------|---|
| FCC-WIFI 6G UNII-5<br>(802.11ax HE80 CH47<br>6185MHz)-6CD | 26dB Emission Bandwidth                      | 165.79   | 165.41   | 0.38   | 3 |
|                                                           | 99% Occupied Bandwidth                       | 157.105  | 157.257  | 0.152  | 3 |
|                                                           | Fundamental Maximum EIRP                     | 17.30    | 17.04    | 0.26   | 3 |
|                                                           | Fundamental Power Spectral Density           | -3.33    | -5.16    | 1.83   | 3 |
|                                                           | In-Band Emissions                            | -12.47   | -11.09   | 1.38   | 3 |
| WIFI 6G UNII-5<br>(802.11ax HE160 CH47<br>6185MHz)        | Contention Based Protocol                    | -65.36   | -65.88   | 0.52   | 3 |
| 6E<br>(802.11ax<br>HE20_Ch233)                            | Radiated Band Edges and<br>Spurious Emission | 66.93    | 67.17    | 0.24   | 3 |
| WIFI 6G                                                   | AC Conducted Emission                        | 11.52    | 12.62    | 1.1    | 3 |
| Part 15C NFC                                              | 20dB Spectrum Bandwidth                      | 2.48     | 2.48     | 0      | 3 |
|                                                           | 99% OBW Spectrum<br>Bandwidth                | 2.10     | 2.11     | 0.01   | 3 |
|                                                           | Frequency Stability                          | -22.9351 | -20.8333 | 2.1018 | 3 |
|                                                           | Field Strength of<br>Fundamental Emissions   | 58.04    | 58.19    | 0.15   | 3 |
|                                                           | Radiated Spurious Emissions                  | 33.28    | 35.09    | 1.81   | 3 |
|                                                           | AC Conducted Emissions                       | 11.94    | 11.86    | 0.06   | 3 |

| Mode            | Test Item                                 | UZ7EM45A2<br>Parent<br>Worst mode<br>Test Result | UZ7EM45A1<br>Variant<br>Check Test<br>Result | Deviation<br>(dB) | Deviation<br>Limit<br>(dB) |
|-----------------|-------------------------------------------|--------------------------------------------------|----------------------------------------------|-------------------|----------------------------|
| Part 96 SA_n77  | Radiated Spurious Emission                | -43.4                                            | -43.69                                       | 0.29              | 3                          |
| Part 96 SA_n48  | End User Device additional<br>requirement | Pass                                             | Pass                                         | -                 | -                          |
| Part96 Band48CA | Equivalent Isotropic Radiated<br>Power    | 20.99                                            | 20.96                                        | 0.203             | 3                          |
|                 | Peak-to-Average Ratio                     | 6.43                                             | 6.22                                         | 0.21              | 3                          |
|                 | Occupied Bandwidth                        | 32.80                                            | 32.80                                        | 0.00              | 3                          |
|                 | Conducted Band Edge                       | -40.19                                           | -40.98                                       | 0.79              | 3                          |
|                 | Conducted Spurious Emission               | -48.81                                           | -47.65                                       | 1.16              | 3                          |
|                 | Frequency Stability                       | 0.0005                                           | 0.0011                                       | 0.0006            | 3                          |



## Conducted power for Unlicensed bands

| Test Item                   | Mode                          | UZ7EM45A2<br>Parent<br>Worst mode<br>Test Result | UZ7EM45A1<br>Variant<br>Check Test<br>Result | Deviation<br>(dB) | Deviation<br>Limit<br>(dB) |
|-----------------------------|-------------------------------|--------------------------------------------------|----------------------------------------------|-------------------|----------------------------|
| Conducted<br>Power<br>(dBm) | BT BR/EDR                     | 9.32                                             | 8.85                                         | 0.47              | 3                          |
|                             | BLE 1Mbps                     | 9.12                                             | 8.87                                         | 0.25              | 3                          |
|                             | BLE 2Mbps                     | 9.33                                             | 9.00                                         | 0.33              | 3                          |
|                             | 11b, 2.4GHz                   | 22.51                                            | 22.46                                        | 0.05              | 3                          |
|                             | 11g, 2.4GHz                   | 21.97                                            | 21.92                                        | 0.05              | 3                          |
|                             | 11n HT20, 2.4GHz              | 21.27                                            | 21.20                                        | 0.07              | 3                          |
|                             | 11ac VHT20, 2.4GHz            | 21.31                                            | 21.25                                        | 0.06              | 3                          |
|                             | 11ax HE20, 2.4GHz             | 21.33                                            | 21.31                                        | 0.02              | 3                          |
|                             | 11a, 5.2GHz                   | 22.28                                            | 22.15                                        | 0.13              | 3                          |
|                             | 11a, 5.3GHz                   | 22.27                                            | 22.08                                        | 0.19              | 3                          |
|                             | 11a, 5.5GHz                   | 22.41                                            | 22.22                                        | 0.19              | 3                          |
|                             | 11a, 5.8GHz                   | 22.45                                            | 22.39                                        | 0.06              | 3                          |
|                             | 11n HT20, 5.2GHz              | 21.20                                            | 21.11                                        | 0.09              | 3                          |
|                             | 11n HT20, 5.3GHz              | 20.56                                            | 20.27                                        | 0.29              | 3                          |
|                             | 11n HT20, 5.5GHz              | 21.42                                            | 21.01                                        | 0.41              | 3                          |
|                             | 11n HT20, 5.8GHz              | 21.51                                            | 21.14                                        | 0.37              | 3                          |
|                             | 11ac VHT20, 5.2GHz            | 21.25                                            | 21.16                                        | 0.09              | 3                          |
|                             | 11ac VHT20, 5.3GHz            | 20.62                                            | 20.31                                        | 0.31              | 3                          |
|                             | 11ac VHT20, 5.5GHz            | 21.46                                            | 21.04                                        | 0.42              | 3                          |
|                             | 11ac VHT20, 5.8GHz            | 21.56                                            | 21.17                                        | 0.39              | 3                          |
|                             | 11ax HE20, 5.2GHz             | 21.29                                            | 21.20                                        | 0.09              | 3                          |
|                             | 11ax HE20, 5.3GHz             | 20.68                                            | 20.38                                        | 0.30              | 3                          |
|                             | 11ax HE20, 5.5GHz             | 21.41                                            | 21.09                                        | 0.32              | 3                          |
|                             | 11ax HE20, 5.8GHz             | 21.41                                            | 21.06                                        | 0.35              | 3                          |
|                             | 11n HT40, 5.2GHz              | 20.45                                            | 20.03                                        | 0.42              | 3                          |
|                             | 11n HT40, 5.3GHz              | 20.22                                            | 19.85                                        | 0.37              | 3                          |
|                             | 11n HT40, 5.5GHz              | 20.52                                            | 20.33                                        | 0.19              | 3                          |
|                             | 11n HT40, 5.8GHz              | 20.30                                            | 20.24                                        | 0.06              | 3                          |
|                             | 11ac VHT40, 5.2GHz            | 20.51                                            | 20.08                                        | 0.43              | 3                          |
|                             | 11ac VHT40, 5.3GHz            | 20.27                                            | 19.89                                        | 0.38              | 3                          |
|                             | 11ac VHT40, 5.5GHz            | 20.55                                            | 20.39                                        | 0.16              | 3                          |
|                             | 11ac VHT40, 5.8GHz            | 20.36                                            | 20.32                                        | 0.04              | 3                          |
|                             | 11ax HE40, 5.2GHz             | 20.56                                            | 20.14                                        | 0.42              | 3                          |
|                             | 11ax HE40, 5.3GHz             | 20.30                                            | 19.94                                        | 0.36              | 3                          |
|                             | 11ax HE40, 5.5GHz             | 20.60                                            | 20.44                                        | 0.16              | 3                          |
|                             | 11ax HE40, 5.8GHz             | 20.42                                            | 20.35                                        | 0.07              | 3                          |
|                             | 11ac VHT80, 5.2GHz            | 20.25                                            | 20.02                                        | 0.23              | 3                          |
|                             | 11ac VHT80, 5.3GHz            | 20.03                                            | 19.77                                        | 0.26              | 3                          |
|                             | 11ac VHT80, 5.5GHz            | 20.18                                            | 20.01                                        | 0.17              | 3                          |
|                             | 11ac VHT80, 5.8GHz            | 19.83                                            | 19.79                                        | 0.04              | 3                          |
|                             | 11ax HE80, 5.2GHz             | 20.31                                            | 20.05                                        | 0.26              | 3                          |
|                             | 11ax HE80, 5.3GHz             | 20.07                                            | 19.79                                        | 0.28              | 3                          |
|                             | 11ax HE80, 5.5GHz             | 20.21                                            | 20.03                                        | 0.18              | 3                          |
|                             | 11ax HE80, 5.8GHz             | 19.85                                            | 19.82                                        | 0.03              | 3                          |
|                             | 11ac VHT160, 5.3GHz           | 19.21                                            | 19.11                                        | 0.10              | 3                          |
|                             | 11ac VHT160, 5.5GHz           | 19.48                                            | 19.24                                        | 0.24              | 3                          |
|                             | 11ax HE160, 5.3GHz            | 19.23                                            | 19.14                                        | 0.09              | 3                          |
|                             | 11ax HE160, 5.5GHz            | 19.52                                            | 19.28                                        | 0.24              | 3                          |
|                             | 6CD Indoor 11a, U-NII-5       | 7.13                                             | 7.06                                         | 0.07              | 3                          |
|                             | 6CD Indoor 11a, U-NII-6       | 7.63                                             | 7.61                                         | 0.02              | 3                          |
|                             | 6CD Indoor 11a, U-NII-7       | 6.43                                             | 6.38                                         | 0.05              | 3                          |
|                             | 6CD Indoor 11a, U-NII-8       | 5.80                                             | 5.71                                         | 0.09              | 3                          |
|                             | 6CD Indoor 11ax HE20, U-NII-5 | 10.68                                            | 10.47                                        | 0.21              | 3                          |
|                             | 6CD Indoor 11ax HE20, U-NII-6 | 11.19                                            | 11.12                                        | 0.07              | 3                          |



|                                 |       |       |      |   |
|---------------------------------|-------|-------|------|---|
| 6CD Indoor 11ax HE20, U-NII-7   | 9.90  | 9.86  | 0.04 | 3 |
| 6CD Indoor 11ax HE20, U-NII-8   | 9.18  | 8.91  | 0.27 | 3 |
| 6CD Indoor 11ax HE40, U-NII-5   | 13.56 | 13.40 | 0.16 | 3 |
| 6CD Indoor 11ax HE40, U-NII-6   | 14.02 | 13.89 | 0.13 | 3 |
| 6CD Indoor 11ax HE40, U-NII-7   | 12.74 | 12.65 | 0.09 | 3 |
| 6CD Indoor 11ax HE40, U-NII-8   | 12.41 | 12.34 | 0.07 | 3 |
| 6CD Indoor 11ax HE80, U-NII-5   | 16.49 | 16.28 | 0.21 | 3 |
| 6CD Indoor 11ax HE80, U-NII-6   | 16.36 | 16.34 | 0.02 | 3 |
| 6CD Indoor 11ax HE80, U-NII-7   | 16.05 | 15.96 | 0.09 | 3 |
| 6CD Indoor 11ax HE80, U-NII-8   | 15.84 | 15.78 | 0.06 | 3 |
| 6CD Indoor 11ax HE160, U-NII-5  | 16.95 | 16.65 | 0.30 | 3 |
| 6CD Indoor 11ax HE160, U-NII-6  | 16.48 | 16.09 | 0.39 | 3 |
| 6CD Indoor 11ax HE160, U-NII-7  | 16.71 | 16.43 | 0.28 | 3 |
| 6CD Indoor 11ax HE160, U-NII-8  | 16.80 | 16.50 | 0.30 | 3 |
| 6CD Outdoor 11a, U-NII-5        | 17.02 | 16.53 | 0.49 | 3 |
| 6CD Outdoor 11a, U-NII-7        | 16.69 | 16.62 | 0.07 | 3 |
| 6CD Outdoor 11ax HE20, U-NII-5  | 16.95 | 16.55 | 0.40 | 3 |
| 6CD Outdoor 11ax HE20, U-NII-7  | 16.61 | 16.26 | 0.35 | 3 |
| 6CD Outdoor 11ax HE40, U-NII-5  | 16.90 | 16.60 | 0.30 | 3 |
| 6CD Outdoor 11ax HE40, U-NII-7  | 16.52 | 16.22 | 0.30 | 3 |
| 6CD Outdoor 11ax HE80, U-NII-5  | 16.85 | 16.52 | 0.33 | 3 |
| 6CD Outdoor 11ax HE80, U-NII-7  | 16.43 | 16.13 | 0.30 | 3 |
| 6CD Outdoor 11ax HE160, U-NII-5 | 16.95 | 16.65 | 0.30 | 3 |
| 6CD Outdoor 11ax HE160, U-NII-7 | 16.42 | 16.20 | 0.22 | 3 |

## Conducted power for Licensed bands

| Test Item                   | Mode            | UZ7EM45A2<br>Parent<br>Worst mode Test<br>Result | UZ7EM45A1<br>Variant<br>Check Test<br>Result | Deviation<br>(dB) | Deviation<br>Limit<br>(dB) |
|-----------------------------|-----------------|--------------------------------------------------|----------------------------------------------|-------------------|----------------------------|
| Conducted<br>Power<br>(dBm) | WCDMA II        | 23.97                                            | 23.79                                        | 0.18              | 3                          |
|                             | WCDMA IV        | 23.92                                            | 23.88                                        | 0.04              | 3                          |
|                             | WCDMA V         | 23.98                                            | 23.66                                        | 0.32              | 3                          |
|                             | LTE B2          | 23.66                                            | 23.24                                        | 0.42              | 3                          |
|                             | LTE B4          | 23.56                                            | 23.32                                        | 0.24              | 3                          |
|                             | LTE B5          | 23.69                                            | 23.35                                        | 0.34              | 3                          |
|                             | LTE B5B         | 23.65                                            | 23.52                                        | 0.13              | 3                          |
|                             | LTE B7          | 22.8                                             | 22.61                                        | 0.19              | 3                          |
|                             | LTE B7C         | 22.79                                            | 22.75                                        | 0.04              | 3                          |
|                             | LTE B12         | 23.89                                            | 23.65                                        | 0.24              | 3                          |
|                             | LTE B13         | 23.71                                            | 23.31                                        | 0.4               | 3                          |
|                             | LTE B14         | 23.83                                            | 23.38                                        | 0.45              | 3                          |
|                             | LTE B17         | 23.82                                            | 23.43                                        | 0.39              | 3                          |
|                             | LTE B25         | 23.68                                            | 23.19                                        | 0.49              | 3                          |
|                             | LTE B26L        | 23.47                                            | 23.26                                        | 0.21              | 3                          |
|                             | LTE B26H        | 23.71                                            | 23.26                                        | 0.45              | 3                          |
|                             | LTE B30         | 23.69                                            | 23.57                                        | 0.12              | 3                          |
|                             | LTE B66         | 23.60                                            | 23.28                                        | 0.32              | 3                          |
|                             | LTE B71         | 22.76                                            | 22.72                                        | 0.04              | 3                          |
|                             | LTE B38         | 22.77                                            | 22.70                                        | 0.07              | 3                          |
|                             | LTE B41         | 26.01                                            | 26.00                                        | 0.01              | 3                          |
|                             | LTE B38C        | 22.63                                            | 22.59                                        | 0.04              | 3                          |
|                             | LTE B41C        | 25.73                                            | 25.62                                        | 0.11              | 3                          |
|                             | LTE B48 part96  | 21.85                                            | 21.82                                        | 0.03              | 3                          |
|                             | LTE B48C part96 | 21.55                                            | 21.52                                        | 0.03              | 3                          |
|                             | LTE B66B        | 23.49                                            | 23.27                                        | 0.22              | 3                          |
|                             | LTE B66C        | 23.32                                            | 23.21                                        | 0.11              | 3                          |



|                     |       |       |      |   |
|---------------------|-------|-------|------|---|
| N13                 | 24.27 | 23.96 | 0.31 | 3 |
| N14                 | 24.26 | 23.98 | 0.28 | 3 |
| N26 L               | 24.45 | 24.06 | 0.39 | 3 |
| N26 H               | 24.49 | 24.02 | 0.47 | 3 |
| ENDC_48A_n66A       | 24.22 | 24.18 | 0.04 | 3 |
| N77 27O MIMO        | 24.70 | 24.36 | 0.34 | 3 |
| N78 27O MIMO        | 24.61 | 24.32 | 0.29 | 3 |
| N77 part96 MIMO     | 22.31 | 22.25 | 0.06 | 3 |
| N78 part96 MIMO     | 22.26 | 22.19 | 0.07 | 3 |
| N77 27Q MIMO        | 24.45 | 24.12 | 0.33 | 3 |
| N78 27Q MIMO        | 24.11 | 23.86 | 0.25 | 3 |
| ENDC_5A_n2A         | 24.72 | 24.27 | 0.45 | 3 |
| ENDC_12A_n25A       | 24.74 | 24.29 | 0.45 | 3 |
| ENDC_2A_n5A         | 24.39 | 24.31 | 0.08 | 3 |
| ENDC_2A_n7A         | 23.85 | 23.51 | 0.34 | 3 |
| ENDC_2A_n12A        | 24.52 | 24.25 | 0.27 | 3 |
| ENDC_2A_n30A        | 23.65 | 23.58 | 0.07 | 3 |
| ENDC_2A_n38A        | 23.59 | 23.45 | 0.14 | 3 |
| ENDC_2A_n41A        | 26.56 | 26.45 | 0.11 | 3 |
| ENDC_2A_n71A        | 23.39 | 23.31 | 0.08 | 3 |
| ENDC_2A_N77A 27O    | 26.23 | 26.17 | 0.06 | 3 |
| ENDC_2A_N78A 27O    | 26.01 | 25.94 | 0.07 | 3 |
| ENDC_2A_N77A 27Q    | 25.99 | 25.75 | 0.24 | 3 |
| ENDC_2A_N78A 27Q    | 25.81 | 25.47 | 0.34 | 3 |
| ENDC_2A_N77A part96 | 22.85 | 22.62 | 0.23 | 3 |
| ENDC_2A_N78A part96 | 22.76 | 22.58 | 0.18 | 3 |
| ENDC_2A_N48A part96 | 22.04 | 22.01 | 0.03 | 3 |

## 6CD- &lt; indoor client&gt;

## &lt;SISO mode&gt;

| U-NII-5 SISO |           |     |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 001 | 5955        | 0.03             | 0.03   | 4.55                                   | 3.39   | 0.35     | -0.85  | 4.90             | 2.54   | 24.00                  | Pass       | 4.5           |        |

| U-NII-5 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 049 | 6195        | Full       | 0.00             | 0.00   | 7.91                                   | 6.82   | 0.35     | -0.85  | 8.26             | 5.97   | 24.00                  | Pass       | 8             | 8      |
| HE40         | MCS0      | 1   | 003 | 5965        | Full       | 0.00             | 0.00   | 10.63                                  | 10.08  | 0.35     | -0.85  | 10.98            | 9.23   | 24.00                  | Pass       | 11            | 11     |
| HE80         | MCS0      | 1   | 007 | 5985        | Full       | 0.00             | 0.00   | 13.43                                  | 13.02  | 0.35     | -0.85  | 13.78            | 12.17  | 24.00                  | Pass       | 14            | 14     |
| HE160        | MCS0      | 1   | 047 | 6185        | Full       | 0.00             | 0.00   | 14.01                                  | 13.13  | 0.35     | -0.85  | 14.36            | 12.28  | 24.00                  | Pass       | 14            | 14     |

| U-NII-6 SISO |           |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 6515        | 0.03             | 0.04   | 4.81                                   | 4.31   | 0.75     | -2.44  | 5.56             | 1.87   | 24.00                  | Pass       | 5.5           | 5.5    |



| U-NII-6 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 105 | 6475        | Full       | 0.00             | 0.00   | 8.41                                   | 7.67   | 0.75     | -2.44  | 9.16             | 5.23   | 24.00                  | Pass       | 9             | 9      |
| HE40         | MCS0      | 1   | 107 | 6485        | Full       | 0.00             | 0.00   | 11.21                                  | 10.45  | 0.75     | -2.44  | 11.96            | 8.01   | 24.00                  | Pass       | 12            | 12     |
| HE80         | MCS0      | 1   | 103 | 6465        | Full       | 0.00             | 0.00   | 13.63                                  | 12.91  | 0.75     | -2.44  | 14.38            | 10.47  | 24.00                  | Pass       | 14            | 14     |
| HE160        | MCS0      | 1   | 111 | 6505        | Full       | 0.00             | 0.00   | 13.37                                  | 12.72  | 0.75     | -2.44  | 14.12            | 10.28  | 24.00                  | Pass       | 14            | 14     |

| U-NII-7 SISO |           |     |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 117 | 6535        | 0.03             | 0.04   | 3.54                                   | 3.14   | 1.02     | 0.16   | 4.56             | 3.30   | 24.00                  | Pass       | 4             | 4      |

| U-NII-7 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 117 | 6535        | Full       | 0.00             | 0.00   | 7.19                                   | 6.43   | 1.02     | 0.16   | 8.21             | 6.59   | 24.00                  | Pass       | 7.5           | 7.5    |
| HE40         | MCS0      | 1   | 123 | 6565        | Full       | 0.00             | 0.00   | 9.97                                   | 9.19   | 1.02     | 0.16   | 10.99            | 9.35   | 24.00                  | Pass       | 10.5          | 10.5   |
| HE80         | MCS0      | 1   | 135 | 6625        | Full       | 0.00             | 0.00   | 13.33                                  | 12.45  | 1.02     | 0.16   | 14.35            | 12.61  | 24.00                  | Pass       | 14            | 14     |
| HE160        | MCS0      | 1   | 175 | 6825        | Full       | 0.00             | 0.00   | 13.25                                  | 13.51  | 1.02     | 0.16   | 14.27            | 13.67  | 24.00                  | Pass       | 14            | 14     |

| U-NII-8 SISO |           |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 7095        | 0.03             | 0.04   | 2.72                                   | 2.58   | 0.70     | 1.66   | 3.42             | 4.24   | 24.00                  | Pass       | 3.5           | 3.5    |

| U-NII-8 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 229 | 7095        | Full       | 0.00             | 0.00   | 5.85                                   | 5.76   | 0.70     | 1.66   | 6.55             | 7.42   | 24.00                  | Pass       | 6.5           | 6.5    |
| HE40         | MCS0      | 1   | 227 | 7085        | Full       | 0.00             | 0.00   | 9.27                                   | 9.26   | 0.70     | 1.66   | 9.97             | 10.92  | 24.00                  | Pass       | 10            | 10     |
| HE80         | MCS0      | 1   | 199 | 6945        | Full       | 0.00             | 0.00   | 12.98                                  | 12.45  | 0.70     | 1.66   | 13.68            | 14.11  | 24.00                  | Pass       | 13.5          | 13.5   |
| HE160        | MCS0      | 1   | 207 | 6985        | Full       | 0.00             | 0.00   | 13.22                                  | 13.58  | 0.70     | 1.66   | 13.92            | 15.24  | 24.00                  | Pass       | 14            | 14     |



## &lt;CDD mode&gt;

| U-NII-5 MIMO |           |     |     |             |                  |        |                                        |        |      |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |      | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM  | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| 11a          | 6Mbps     | 2   | 001 | 5955        | 0.03             | 0.04   | 4.60                                   | 3.43   | 7.06 | 0.35     |        | 7.41             | 24.00                  | Pass       | 4.5           |       |

| U-NII-6 MIMO |           |     |             |                  |        |                                        |        |      |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-------------|------------------|--------|----------------------------------------|--------|------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |      | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM  | Ant 8    | Ant 10 |                  |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 2   | 6515        | 0.03             | 0.04   | 4.84                                   | 4.35   | 7.61 | 0.75     |        | 8.36             | 24.00                  | Pass       | 5.5           |        |

| U-NII-7 MIMO |           |     |     |             |                  |        |                                        |        |      |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |      | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM  | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| 11a          | 6Mbps     | 2   | 117 | 6535        | 0.03             | 0.04   | 3.57                                   | 3.17   | 6.38 | 1.02     |        | 7.40             | 24.00                  | Pass       | 4             |       |

| U-NII-8 MIMO |           |     |             |                  |        |                                        |        |      |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-------------|------------------|--------|----------------------------------------|--------|------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |      | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM  | Ant 8    | Ant 10 |                  |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 2   | 7095        | 0.03             | 0.04   | 2.74                                   | 2.65   | 5.71 | 1.66     |        | 7.37             | 24.00                  | Pass       | 3.5           |        |

## &lt;SDM mode&gt;

| U-NII-5 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 | SUM              |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 2   | 049 | 6195        | Full       | 0.00             | 0.00   | 7.96                                   | 6.89   | 10.47 | 0.35     |        | 10.82            | 24.00                  | Pass       | 8             |        |
| HE40         | MCS0      | 2   | 003 | 5965        | Full       | 0.00             | 0.00   | 10.67                                  | 10.10  | 13.40 | 0.35     |        | 13.75            | 24.00                  | Pass       | 11            |        |
| HE80         | MCS0      | 2   | 007 | 5985        | Full       | 0.00             | 0.00   | 13.49                                  | 13.04  | 16.28 | 0.35     |        | 16.63            | 24.00                  | Pass       | 14            |        |
| HE160        | MCS0      | 2   | 047 | 6185        | Full       | 0.00             | 0.00   | 14.06                                  | 13.17  | 16.65 | 0.35     |        | 17.00            | 24.00                  | Pass       | 14            |        |





| U-NII-6 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| HE20         | MCS0      | 2   | 105 | 6475        | Full       | 0.00             | 0.00   | 8.44                                   | 7.76   | 11.12 | 0.75     |        | 11.87            | 24.00                  | Pass       | 9             |       |
| HE40         | MCS0      | 2   | 107 | 6485        | Full       | 0.00             | 0.00   | 11.24                                  | 10.48  | 13.89 | 0.75     |        | 14.64            | 24.00                  | Pass       | 12            |       |
| HE80         | MCS0      | 2   | 103 | 6465        | Full       | 0.00             | 0.00   | 13.68                                  | 12.95  | 16.34 | 0.75     |        | 17.09            | 24.00                  | Pass       | 14            |       |
| HE160        | MCS0      | 2   | 111 | 6505        | Full       | 0.00             | 0.00   | 13.40                                  | 12.74  | 16.09 | 0.75     |        | 16.84            | 24.00                  | Pass       | 14            |       |

| U-NII-7 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 | SUM              |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 2   | 117 | 6535        | Full       | 0.00             | 0.00   | 7.22                                   | 6.44   | 9.86  | 1.02     |        | 10.88            | 24.00                  | Pass       | 7.5           |        |
| HE40         | MCS0      | 2   | 123 | 6565        | Full       | 0.00             | 0.00   | 10.02                                  | 9.22   | 12.65 | 1.02     |        | 13.67            | 24.00                  | Pass       | 10.5          |        |
| HE80         | MCS0      | 2   | 135 | 6625        | Full       | 0.00             | 0.00   | 13.35                                  | 12.51  | 15.96 | 1.02     |        | 16.98            | 24.00                  | Pass       | 14            |        |
| HE160        | MCS0      | 2   | 175 | 6825        | Full       | 0.00             | 0.00   | 13.29                                  | 13.55  | 16.43 | 1.02     |        | 17.45            | 24.00                  | Pass       | 14            |        |

| U-NII-8 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| HE20         | MCS0      | 2   | 229 | 7095        | Full       | 0.00             | 0.00   | 5.88                                   | 5.91   | 8.91  | 1.66     |        | 10.57            | 24.00                  | Pass       | 6.5           |       |
| HE40         | MCS0      | 2   | 227 | 7085        | Full       | 0.00             | 0.00   | 9.33                                   | 9.32   | 12.34 | 1.66     |        | 14.00            | 24.00                  | Pass       | 10            |       |
| HE80         | MCS0      | 2   | 199 | 6945        | Full       | 0.00             | 0.00   | 13.02                                  | 12.50  | 15.78 | 1.66     |        | 17.44            | 24.00                  | Pass       | 13.5          |       |
| HE160        | MCS0      | 2   | 207 | 6985        | Full       | 0.00             | 0.00   | 13.36                                  | 13.62  | 16.50 | 1.66     |        | 18.16            | 24.00                  | Pass       | 14            |       |

&lt;standard client &gt;

&lt;SISO mode&gt;

| U-NII-5 SISO |           |     |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 049 | 6195        | 0.03             | 0.04   | 14.00                                  | 12.85  | 0.35     | -0.85  | 14.35            | 12.00  | 30.00                  | Pass       | 14            |        |



| U-NII-5 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 049 | 6195        | Full       | 0.00             | 0.00   | 13.99                                  | 12.97  | 0.35     | -0.85  | 14.34            | 12.12  | 30.00                  | Pass       | 14            | 14     |
| HE40         | MCS0      | 1   | 051 | 6205        | Full       | 0.00             | 0.00   | 14.02                                  | 13.03  | 0.35     | -0.85  | 14.37            | 12.18  | 30.00                  | Pass       | 14            | 14     |
| HE80         | MCS0      | 1   | 055 | 6225        | Full       | 0.00             | 0.00   | 13.88                                  | 13.01  | 0.35     | -0.85  | 14.23            | 12.16  | 30.00                  | Pass       | 14            | 14     |
| HE160        | MCS0      | 1   | 047 | 6185        | Full       | 0.00             | 0.00   | 14.01                                  | 13.13  | 0.35     | -0.85  | 14.36            | 12.28  | 30.00                  | Pass       | 14            | 14     |

| U-NII-7 SISO |           |     |     |             |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 1   | 181 | 6855        | 0.03             | 0.04   | 13.58                                  | 13.45  | 1.02     | 0.16   | 14.60            | 13.61  | 30.00                  | Pass       | 14            | 14     |

| U-NII-7 SISO |           |     |     |             |            |                  |        |                                        |        |          |        |                  |        |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|----------|--------|------------------|--------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        | DG (dBi) |        | EIRP Power (dBm) |        | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | Ant 8    | Ant 10 | Ant 8            | Ant 10 |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 1   | 117 | 6535        | Full       | 0.00             | 0.00   | 13.63                                  | 12.76  | 1.02     | 0.16   | 14.65            | 12.92  | 30.00                  | Pass       | 14            | 14     |
| HE40         | MCS0      | 1   | 123 | 6565        | Full       | 0.00             | 0.00   | 13.57                                  | 12.76  | 1.02     | 0.16   | 14.59            | 12.92  | 30.00                  | Pass       | 14            | 14     |
| HE80         | MCS0      | 1   | 167 | 6785        | Full       | 0.00             | 0.00   | 13.37                                  | 12.76  | 1.02     | 0.16   | 14.39            | 12.92  | 30.00                  | Pass       | 14            | 14     |
| HE160        | MCS0      | 1   | 143 | 6665        | Full       | 0.00             | 0.00   | 13.37                                  | 12.91  | 1.02     | 0.16   | 14.39            | 13.07  | 30.00                  | Pass       | 14            | 14     |

## &lt;CDD mode&gt;

| U-NII-5 MIMO |           |     |     |             |                  |        |                                        |        |       |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 | SUM              |                        |            | Ant 8         | Ant 10 |
| 11a          | 6Mbps     | 2   | 049 | 6195        | 0.03             | 0.04   | 14.05                                  | 12.92  | 16.53 | 0.35     |        | 16.88            | 30.00                  | Pass       | 14            |        |

| U-NII-5 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |        |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|--------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |        |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 | SUM              |                        |            | Ant 8         | Ant 10 |
| HE20         | MCS0      | 2   | 049 | 6195        | Full       | 0.00             | 0.00   | 14.02                                  | 13.00  | 16.55 | 0.35     |        | 16.90            | 30.00                  | Pass       | 14            |        |
| HE40         | MCS0      | 2   | 051 | 6205        | Full       | 0.00             | 0.00   | 14.06                                  | 13.07  | 16.60 | 0.35     |        | 16.95            | 30.00                  | Pass       | 14            |        |
| HE80         | MCS0      | 2   | 055 | 6225        | Full       | 0.00             | 0.00   | 13.92                                  | 13.05  | 16.52 | 0.35     |        | 16.87            | 30.00                  | Pass       | 14            |        |
| HE160        | MCS0      | 2   | 047 | 6185        | Full       | 0.00             | 0.00   | 14.06                                  | 13.17  | 16.65 | 0.35     |        | 17.00            | 30.00                  | Pass       | 14            |        |



| U-NII-7 MIMO |           |     |     |             |                  |        |                                        |        |       |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| 11a          | 6Mbps     | 2   | 181 | 6855        | 0.03             | 0.04   | 13.63                                  | 13.60  | 16.62 | 1.02     |        | 17.64            | 30.00                  | Pass       | 14            |       |

| U-NII-7 MIMO |           |     |     |             |            |                  |        |                                        |        |       |          |        |                  |                        |            |               |       |
|--------------|-----------|-----|-----|-------------|------------|------------------|--------|----------------------------------------|--------|-------|----------|--------|------------------|------------------------|------------|---------------|-------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Duty Factor (dB) |        | Conducted Power with duty factor (dBm) |        |       | DG (dBi) |        | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail | Power Setting |       |
|              |           |     |     |             |            | Ant 8            | Ant 10 | Ant 8                                  | Ant 10 | SUM   | Ant 8    | Ant 10 |                  |                        |            | SUM           | Ant 8 |
| HE20         | MCS0      | 2   | 117 | 6535        | Full       | 0.00             | 0.00   | 13.68                                  | 12.78  | 16.26 | 1.02     |        | 17.28            | 30.00                  | Pass       | 14            |       |
| HE40         | MCS0      | 2   | 123 | 6565        | Full       | 0.00             | 0.00   | 13.59                                  | 12.79  | 16.22 | 1.02     |        | 17.24            | 30.00                  | Pass       | 14            |       |
| HE80         | MCS0      | 2   | 167 | 6785        | Full       | 0.00             | 0.00   | 13.40                                  | 12.83  | 16.13 | 1.02     |        | 17.15            | 30.00                  | Pass       | 14            |       |
| HE160        | MCS0      | 2   | 143 | 6665        | Full       | 0.00             | 0.00   | 13.42                                  | 12.95  | 16.20 | 1.02     |        | 17.22            | 30.00                  | Pass       | 14            |       |

**Conclusion:**

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same detection mechanism/software/antenna gain is used in the variant of DFS. Hence, all test cases refer to parent report.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



### 3 List of Measuring Equipment

For BT/WIFI:

| Instrument                        | Manufacturer    | Model No.              | Serial No.             | Characteristics         | Calibration Date | Test Date                   | Due Date      | Remark                |
|-----------------------------------|-----------------|------------------------|------------------------|-------------------------|------------------|-----------------------------|---------------|-----------------------|
| EMI Test Receiver                 | Keysight        | N9038A                 | MY56400023             | 3Hz~8.5GHz;Max 30dBm    | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer             | Keysight        | N9010B                 | MY57471084             | 10Hz~44GHz              | Jul. 04, 2024    | Nov. 05, 2024               | Jul. 03, 2025 | Radiation (03CH06-KS) |
| Loop Antenna                      | R&S             | HFH2-Z2E               | 101125                 | 9kHz~30MHz              | Sep. 08, 2024    | Nov. 05, 2024               | Sep. 07, 2025 | Radiation (03CH06-KS) |
| Bilog Antenna                     | TeseQ           | CBL6111D               | 59913                  | 30MHz~1GHz              | Sep. 03, 2024    | Nov. 05, 2024               | Sep. 02, 2025 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna         | ETS-Lindgren    | 3117                   | 00218652               | 1GHz~18GHz              | Apr. 11, 2024    | Nov. 05, 2024               | Apr. 10, 2025 | Radiation (03CH06-KS) |
| SHF-EHF Horn                      | Com-power       | AH-840                 | 101093                 | 18GHz~40GHz             | Jan. 06, 2024    | Nov. 05, 2024               | Jan. 05, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | SONOMA          | 310N                   | 372171                 | 9KHz ~1GHZ              | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | EM              | EM18G40GA              | 060728                 | 18~40GHz                | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Radiation (03CH06-KS) |
| high gain Amplifier               | MITEQ           | AMF-7D-00101800-30-10P | 2082395                | 1Ghz-18Ghz              | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | Keysight        | 83017A                 | MY57280119             | 500MHz~26.5GHz          | Oct. 09, 2024    | Nov. 05, 2024               | Oct. 08, 2025 | Radiation (03CH06-KS) |
| AC Power Source                   | Chroma          | 61601                  | F104090004             | N/A                     | NCR              | Nov. 05, 2024               | NCR           | Radiation (03CH06-KS) |
| Turn Table                        | ChamPro         | EM 1000-T              | 060762-T               | 0~360 degree            | NCR              | Nov. 05, 2024               | NCR           | Radiation (03CH06-KS) |
| Antenna Mast                      | ChamPro         | EM 1000-A              | 060762-A               | 1 m~4 m                 | NCR              | Nov. 05, 2024               | NCR           | Radiation (03CH06-KS) |
| EMI Receiver                      | R&S             | ESCI7                  | 100768                 | 9kHz~7GHz;              | Apr. 18, 2024    | Oct. 26, 2024               | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC LISN (for auxiliary equipment) | MessTec         | AN3016                 | 060103                 | 9kHz~30MHz              | Aug. 20, 2024    | Oct. 26, 2024               | Aug. 19, 2025 | Conduction (CO01-KS)  |
| AC LISN                           | MessTec         | AN3016                 | 060105                 | 9kHz~30MHz              | Apr. 18, 2024    | Oct. 26, 2024               | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC Power Source                   | Chroma          | 61602                  | ABP00000811            | AC 0V~300V, 45Hz~1000Hz | Oct. 09, 2024    | Oct. 26, 2024               | Oct. 08, 2025 | Conduction (CO01-KS)  |
| Spectrum Analyzer                 | R&S             | FSV40                  | 101040                 | 10Hz~40GHz              | Oct. 10, 2024    | Nov. 07, 2024~Feb. 11, 2025 | Oct. 09, 2025 | Conducted (TH01-KS)   |
| Pulse Power Sensor                | Anritsu         | MA2411B                | 0917070                | 300MHz~40GHz            | Jan. 02, 2024    | Nov. 07, 2024~Feb. 11, 2025 | Jan. 01, 2025 | Conducted (TH01-KS)   |
| Pulse Power Sensor                | Anritsu         | MA2411B                | 0917070                | 300MHz~40GHz            | Jan. 02, 2025    | Nov. 07, 2024~Feb. 11, 2025 | Jan. 01, 2026 | Conducted (TH01-KS)   |
| Power Meter                       | Anritsu         | ML2495A                | 1005002                | 50MHz Bandwidth         | Jan. 02, 2024    | Nov. 07, 2024~Feb. 11, 2025 | Jan. 01, 2025 | Conducted (TH01-KS)   |
| Power Meter                       | Anritsu         | ML2495A                | 1005002                | 50MHz Bandwidth         | Jan. 02, 2025    | Nov. 07, 2024~Feb. 11, 2025 | Jan. 01, 2026 | Conducted (TH01-KS)   |
| Spectrum Analyzer                 | R&S             | FSV40                  | 101040                 | 10Hz~40GHz              | Oct. 10, 2024    | Nov. 05, 2024               | Oct. 09, 2025 | CBP (DFS01-KS)        |
| MXG-B RF Vector Signal Generator  | Keysight        | 5182B /5182BX07        | MY56200417 /MY59360210 | 9kHz~7.2GHz             | Apr. 17, 2024    | Nov. 05, 2024               | Apr. 16, 2025 | CBP (DFS01-KS)        |
| Vector Signal Generator           | R&S             | SMBV100A               | 258305                 | 9kHz~6GHz               | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | CBP (DFS01-KS)        |
| Combiner                          | MTJ Cooperation | MTJ7112                | N/A                    | 0.4-6GHz                | NCR              | Nov. 05, 2024               | NCR           | CBP (DFS01-KS)        |
| Signal Analyzer                   | R&S             | FSV7                   | 101632                 | 10Hz~7GHz               | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Conducted (DFS01-KS)  |
| Vector Signal Generator           | R&S             | SMJ100A                | 101908                 | 100kHz~6GHz             | Jan. 02, 2024    | Nov. 05, 2024               | Jan. 01, 2025 | Conducted (DFS01-KS)  |



|                                  |                 |                 |                          |              |              |               |              |                      |
|----------------------------------|-----------------|-----------------|--------------------------|--------------|--------------|---------------|--------------|----------------------|
| MXG-B RF Vector Signal Generator | Keysight        | 5182B /5182BX07 | MY562004 17 /MY59360 210 | 9kHz~7.2GHz  | Apr 17, 2024 | Nov. 05, 2024 | Apr 16, 2025 | Conducted (DFS01-KS) |
| Combiner                         | MTJ Cooperation | MTJ7114-M       | N/A                      | 0.5GHz~18GHz | NCR          | Nov. 05, 2024 | NCR          | Conducted (DFS01-KS) |

NCR: No Calibration Required

**For NFC:**

| Instrument                        | Manufacturer | Model No. | Serial No.    | Characteristics         | Calibration Date | Test Date     | Due Date      | Remark                |
|-----------------------------------|--------------|-----------|---------------|-------------------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver                 | R&S          | ESR7      | 101403        | 9kHz~7GHz;Ma x 30dBm    | Oct. 11, 2024    | Oct. 24, 2024 | Oct. 10, 2025 | Radiation (03CH02-KS) |
| Loop Antenna                      | R&S          | HFH2-Z2E  | 101125        | 9kHz~30MHz              | Sep. 08, 2024    | Oct. 24, 2024 | Sep. 07, 2025 | Radiation (03CH02-KS) |
| Bilog Antenna                     | TeseQ        | CBL6111D  | 59915         | 30MHz~1GHz              | Aug. 18, 2024    | Oct. 24, 2024 | Aug. 17, 2025 | Radiation (03CH02-KS) |
| AC Power Source                   | Chroma       | 61601     | 616010002 473 | N/A                     | NCR              | Oct. 24, 2024 | NCR           | Radiation (03CH02-KS) |
| Turn Table                        | MF           | MF7802    | N/A           | 0~360 degree            | NCR              | Oct. 24, 2024 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                      | MF           | MF7802    | N/A           | 1 m~4 m                 | NCR              | Oct. 24, 2024 | NCR           | Radiation (03CH02-KS) |
| Amplifier                         | SONOMA       | 310N      | 413740        | 9KHz~1GHz               | Jan. 03, 2024    | Oct. 24, 2024 | Jan. 02, 2025 | Radiation (03CH02-KS) |
| EMI Receiver                      | R&S          | ESCI7     | 100768        | 9kHz~7GHz;              | Apr. 18, 2024    | Oct. 26, 2024 | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC LISN (for auxiliary equipment) | MessTec      | AN3016    | 060103        | 9kHz~30MHz              | Aug. 20, 2024    | Oct. 26, 2024 | Aug. 19, 2025 | Conduction (CO01-KS)  |
| AC LISN                           | MessTec      | AN3016    | 060105        | 9kHz~30MHz              | Apr. 18, 2024    | Oct. 26, 2024 | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC Power Source                   | Chroma       | 61602     | ABP00000 0811 | AC 0V~300V, 45Hz~1000Hz | Oct. 09, 2024    | Oct. 26, 2024 | Oct. 08, 2025 | Conduction (CO01-KS)  |
| Spectrum Analyzer                 | R&S          | FSV40     | 101040        | 10Hz~40GHz              | Oct. 10, 2024    | Nov. 07, 2024 | Oct. 09, 2025 | Conducted (TH01-KS)   |
| Pulse Power Sensor                | Anritsu      | MA2411B   | 0917070       | 300MHz~40GHz            | Jan. 02, 2024    | Nov. 07, 2024 | Jan. 01, 2025 | Conducted (TH01-KS)   |
| Power Meter                       | Anritsu      | ML2495A   | 1005002       | 50MHz Bandwidth         | Jan. 02, 2024    | Nov. 07, 2024 | Jan. 01, 2025 | Conducted (TH01-KS)   |

NCR: No Calibration Required



## For WWAN Bands:

| Instrument                     | Manufacturer    | Model No.  | Serial No.  | Characteristics         | Calibration Date | Test Date     | Due Date      | Remark                |
|--------------------------------|-----------------|------------|-------------|-------------------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer              | R&S             | FSV40      | 101040      | 10Hz~40GHz              | Oct. 10, 2024    | Nov. 02, 2024 | Oct. 09, 2025 | Conducted (TH01-KS)   |
| Power divider                  | STI             | STI08-0055 | -           | 0.5~40GHz               | NCR              | Nov. 02, 2024 | NCR           | Conducted (TH01-KS)   |
| Temperature & humidity chamber | Hongzhan        | LP-150U    | H2014011440 | -40~+150°C<br>20%~95%RH | Jul. 04, 2024    | Nov. 02, 2024 | Jul. 03, 2025 | Conducted (TH01-KS)   |
| EXA Spectrum Analyzer          | Keysight        | N9010A     | MY55370528  | 10Hz~44G, MAX 30dB      | Oct. 11, 2024    | Oct. 20, 2024 | Oct. 10, 2025 | Radiation (03CH04-KS) |
| Loop Antenna                   | R&S             | HFH2-Z2E   | 101125      | 9kHz~30MHz              | Sep. 10, 2024    | Oct. 20, 2024 | Sep. 09, 2025 | Radiation (03CH04-KS) |
| Bilog Antenna                  | TeseQ           | CBL6111D   | 44483       | 30MHz~1GHz              | Dec. 06, 2023    | Oct. 20, 2024 | Dec. 05, 2024 | Radiation (03CH04-KS) |
| Double Ridge Horn Antenna      | ETS-Lindgren    | 3117       | 00227860    | 1GHz~18GHz              | Aug. 16, 2024    | Oct. 20, 2024 | Aug. 15, 2025 | Radiation (03CH04-KS) |
| SHF-EHF Horn                   | Com-power       | AH-840     | 101070      | 18GHz~40GHz             | Jan. 27, 2024    | Oct. 20, 2024 | Jan. 26, 2025 | Radiation (03CH04-KS) |
| Amplifier                      | SONOMA          | 310N       | 413740      | 9KHz~1GHz               | Jan. 03, 2024    | Oct. 20, 2024 | Jan. 02, 2025 | Radiation (03CH04-KS) |
| Amplifier                      | EM              | EM18G40G A | 060728      | 18~40GHz                | Jan. 02, 2024    | Oct. 20, 2024 | Jan. 01, 2025 | Radiation (03CH04-KS) |
| high gain Amplifier            | EM              | EM01G18G A | 060840      | 1Ghz~18Ghz              | Oct. 09, 2024    | Oct. 20, 2024 | Oct. 08, 2025 | Radiation (03CH04-KS) |
| Amplifier                      | EM              | EM01G18G A | 060892      | 1Ghz~18Ghz              | Oct. 09, 2024    | Oct. 20, 2024 | Oct. 08, 2025 | Radiation (03CH04-KS) |
| AC Power Source                | Chroma          | 61601      | F104090004  | N/A                     | NCR              | Oct. 20, 2024 | NCR           | Radiation (03CH04-KS) |
| Turn Table                     | ChamPro         | EM 1000-T  | 060762-T    | 0~360 degree            | NCR              | Oct. 20, 2024 | NCR           | Radiation (03CH04-KS) |
| Antenna Mast                   | ChamPro         | EM 1000-A  | 060762-A    | 1 m~4 m                 | NCR              | Oct. 20, 2024 | NCR           | Radiation (03CH04-KS) |
| Signal Analyzer                | R&S             | FSV7       | 101472      | 10Hz~7GHz               | Jan. 05, 2024    | Nov. 12, 2024 | Jan. 04, 2025 | Conducted (DFS01-KS)  |
| Combiner                       | MTJ Cooperation | MTJ7112    | N/A         | 0.4-6GHz                | NCR              | Nov. 12, 2024 | NCR           | Conducted (DFS01-KS)  |

NCR: No Calibration Required

## 4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement (BT/WIFI2.4G/5G)

| Test Item                              | Uncertainty |
|----------------------------------------|-------------|
| Conducted Spurious Emission & Bandedge | ±2.22 dB    |
| Occupied Channel Bandwidth             | ±0.1%       |
| Conducted Power                        | ±0.50 dB    |
| Conducted Power Spectral Density       | ±0.90 dB    |
| Frequency                              | ±0.04 ppm   |

### Uncertainty of Conducted Measurement(WIFI 6G)

| Test Item                              | Uncertainty |
|----------------------------------------|-------------|
| Conducted Spurious Emission & Bandedge | ±2.22 dB    |
| Occupied Channel Bandwidth             | ±0.1%       |
| Conducted Power                        | ±0.50 dB    |
| Conducted Power Spectral Density       | ±0.90 dB    |
| Frequency                              | 0.04ppm     |
| Conducted Generated signal Levels      | ±0.56 dB    |
| Conducted Time                         | 0.54%       |

### Uncertainty of Conducted Measurement(NFC)

| Test Item                  | Uncertainty |
|----------------------------|-------------|
| Occupied Channel Bandwidth | ±0.1%       |
| Frequency                  | 0.04ppm     |

### Uncertainty of Conducted Measurement (DFS)

| Test Item                         | Uncertainty |
|-----------------------------------|-------------|
| Conducted Generated signal Levels | ±0.56 dB    |
| Conducted Time                    | 0.38%       |

**Uncertainty of Conducted Measurement (WWAN)**

| Test Item                              | Uncertainty    |
|----------------------------------------|----------------|
| Conducted Spurious Emission & Bandedge | $\pm 2.22$ dB  |
| Occupied Channel Bandwidth             | $\pm 0.1\%$    |
| Conducted Power                        | $\pm 0.50$ dB  |
| Peak to Average Ratio                  | $\pm 0.46$ dB  |
| Frequency Stability                    | $\pm 0.04$ ppm |

**Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)**

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.84 dB |
|-------------------------------------------------------------------------|---------|

03CH06-KS(BT/WIF):

**Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.30dB |
|-------------------------------------------------------------------------|--------|

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.08dB |
|-------------------------------------------------------------------------|--------|

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.18dB |
|-------------------------------------------------------------------------|--------|

**Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.22dB |
|-------------------------------------------------------------------------|--------|

03CH02-KS(NFC):

**Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.30dB |
|-------------------------------------------------------------------------|--------|

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.04dB |
|-------------------------------------------------------------------------|--------|





**03CH04-KS(WWAN):**

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.83 dB |
|-------------------------------------------------------------------------|---------|

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.83 dB |
|-------------------------------------------------------------------------|---------|

**Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.82 dB |
|-------------------------------------------------------------------------|---------|

----- THE END -----



## **Appendix B. Reference Report**



# FCC RF Test Report

FCC ID : UZ7EM45A2  
EQUIPMENT : Enterprise Mobile  
BRAND NAME : Zebra  
MODEL NAME : EM45A2  
APPLICANT : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
MANUFACTURER : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
STANDARD : 47 CFR Part 2, and 90(S)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Jun. 20, 2024 ~ Aug. 21, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG460505N  | Rev. 01 | Initial issue of report | Sep. 05, 2024 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
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|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                                      | Limit                               | Result | Remark                                    |
|----------------|--------------------|--------------------------------------------------|-------------------------------------|--------|-------------------------------------------|
| 3.1            | §2.1046            | Conducted Output Power                           | —                                   | PASS   | -                                         |
| 3.2            | §2.1049<br>§90.209 | Occupied Bandwidth and<br>26dB Bandwidth         | —                                   | PASS   | -                                         |
| 3.3            | §2.1051<br>§90.691 | Emission masks –<br>In-band emissions            | $< 50+10\log_{10}(P[\text{Watts}])$ | PASS   | -                                         |
| 3.4            | §2.1051<br>§90.691 | Emission masks –<br>Out of band emissions        | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS   | -                                         |
| 3.5            | §2.1053<br>§90.691 | Field Strength of Spurious<br>Radiation          | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS   | Under limit<br>46.12 dB at<br>2448.00 MHz |
| 3.6            | §2.1055<br>§90.213 | Frequency Stability for<br>Temperature & Voltage | $< 2.5 \text{ ppm}$                 | PASS   | -                                         |

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Feature of Equipment Under Test

| Product Feature |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Equipment       | Enterprise Mobile                                                                        |
| Brand Name      | Zebra                                                                                    |
| Model Name      | EM45A2                                                                                   |
| FCC ID          | UZ7EM45A2                                                                                |
| IMEI Code       | Conducted: 352991990028965/352991990029377<br>Radiation: 352991990029096/352991990029708 |
| HW Version      | EV2.5                                                                                    |
| SW Version      | 13-32-08.00-TG-U06-STD-ATH-04                                                            |
| MFD             | 08AUG24                                                                                  |
| EUT Stage       | Identical Prototype                                                                      |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

| Specification of Accessory |            |       |             |                |
|----------------------------|------------|-------|-------------|----------------|
| Battery                    | Brand Name | Zebra | Model       | BT-000501      |
|                            |            |       | Part Number | BT-000501-2000 |

| Supported Unit used in test configuration and system |            |       |             |                    |
|------------------------------------------------------|------------|-------|-------------|--------------------|
| AC Adapter 1<br>(Type C Wall Charger 1)              | Brand Name | Zebra | Model       | SAWA-102-22520A    |
|                                                      |            |       | Part Number | PWR-WUA5V45W1US    |
| AC Adapter 2<br>(Type A Wall Charger 2)              | Brand Name | Zebra | Model       | SAWA-65-20005A     |
|                                                      |            |       | Part Number | PWR-WUA5V12W0US    |
| Earphone 1<br>(Wired headset USB-C)                  | Brand Name | Zebra | Part Number | HDST-USBC-PTT1-01  |
| Earphone 2<br>(Rugged Bluetooth Headset)             | Brand Name | Zebra | Part Number | HS3100-OTH         |
| Earphone 3<br>(3.5mm PTT Headset)                    | Brand Name | Zebra | Part Number | HDST-35MM-PTT1-02  |
| Earphone 4<br>(Rugged Headset)                       | Brand Name | Zebra | Part Number | HS2100-OTH         |
| 3.5mm to 3.5mm audio connector                       | Brand Name | Zebra | Part Number | CBL-HS2100-3MS1-01 |
| Type C-Audio Cable<br>(Type C to 3.5mm)              | Brand Name | Zebra | Part Number | ADP-USBC-35MM1-01  |
| USB Cable 1<br>(USB-C to C Cable)                    | Brand Name | Zebra | Part Number | CBL-EC5X-USBC3A-01 |
| USB Cable 2<br>(USB-A to C Cable)                    | Brand Name | Zebra | Part Number | CBL-TC5X-USBC2A-01 |
| EM45 Protective Case                                 | Brand Name | Zebra | Part Number | SG-EM45EXO1-01     |

## 1.2 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |                                                                                                 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                               | 814 ~ 824 MHz                                                                                   |
| <b>Rx Frequency</b>                               | 859 ~ 869 MHz                                                                                   |
| <b>SCS</b>                                        | 15kHz                                                                                           |
| <b>Bandwidth</b>                                  | 5MHz / 10MHz / 15MHz / 20MHz                                                                    |
| <b>Antenna Gain</b>                               | -3.0dBi for Ant0, -2.11 dBi for Ant1                                                            |
| <b>Type of Modulation</b>                         | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM |

**Remark:**

1. 5G NR n26 supports SA mode only.
2. The maximum power of Ant.0 is shown in the report.

## 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.4 Maximum Conducted Power and Emission Designator

| 5G NR n26 |                       | PI/2 BPSK / QPSK           |                              | 16QAM / 64QAM / 256QAM     |                              |
|-----------|-----------------------|----------------------------|------------------------------|----------------------------|------------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum Conducted power(W) | Emission Designator (99%OBW) | Maximum Conducted power(W) | Emission Designator (99%OBW) |
| 5         | 816.5 ~ 821.5         | 0.2761                     | 4M47G7D                      | 0.2259                     | 4M48W7D                      |
| 10        | 819                   | 0.2773                     | 9M29G7D                      | 0.2198                     | 9M29W7D                      |
| 15        | 821.5                 | 0.2723                     | 14M1G7D                      | 0.2133                     | 14M1W7D                      |
| 20        | 824                   | 0.2786                     | 18M9G7D                      | 0.2178                     | 18M9W7D                      |

**Note:** All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

## 1.5 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                           |                                                                                                                                                |                            |                                       |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (Kunshan)                                                                                                           |                            |                                       |
| <b>Test Site Location</b> | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                        | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-KS<br>03CH04-KS                                                                                                                           | CN1257                     | 314309                                |



## 1.6 Test Software

| Item | Site      | Manufacture | Name                                 | Version |
|------|-----------|-------------|--------------------------------------|---------|
| 1.   | TH01-KS   | Tonscend    | JS1120-3 test system<br>China_210602 | 3.3.10  |
| 2.   | 03CH04-KS | AUDIX       | E3                                   | 210616  |

## 1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 90(S)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

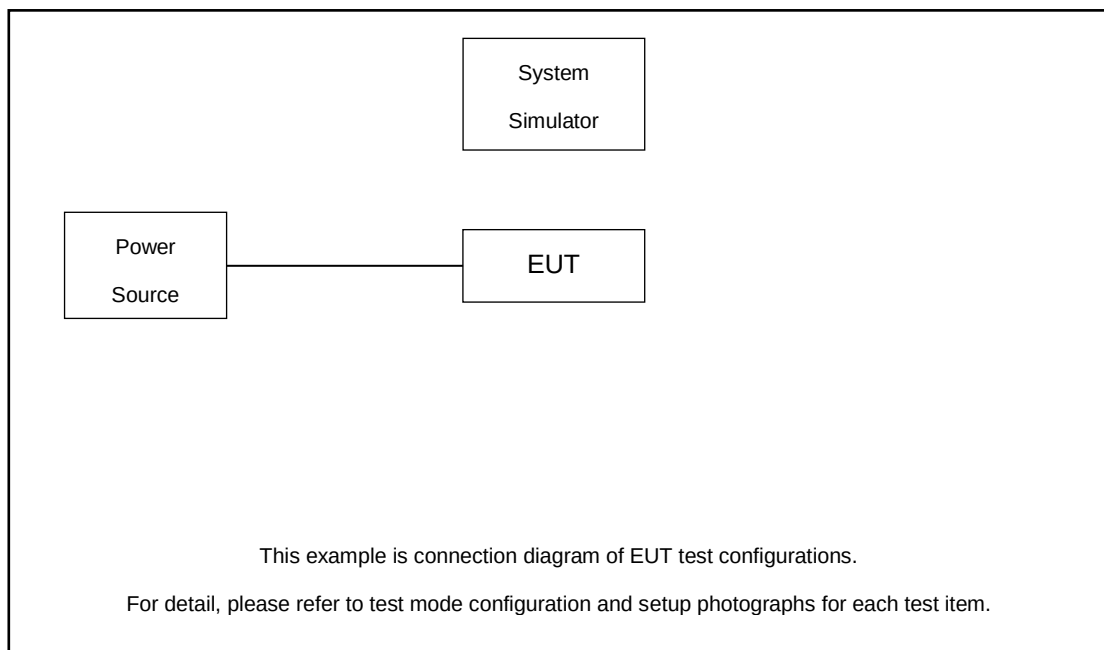
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (Y Plane).

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

| Test Items                             | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bandwidth (MHz) |    |    |    | Modulation |      |       |       |        | RB # |      |      | Test Channel |   |   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|----|----|------------|------|-------|-------|--------|------|------|------|--------------|---|---|
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5               | 10 | 15 | 20 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power                      | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v               | v  | v  | v  | v          | v    | v     | v     | v      | v    |      | v    | v            | v | v |
| 26dB and 99% Bandwidth                 | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v               | v  | v  | v  |            | v    | v     | v     | v      |      |      | v    |              | v |   |
| Emission masks In-band emissions       | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v               |    |    |    | v          | v    |       |       |        | v    |      | v    | v            | v | v |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | v  |    | v  | v          | v    |       |       |        | v    |      | v    |              | v |   |
| Emission masks – Out of band emissions | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v               |    |    |    | v          | v    |       |       |        | v    |      |      | v            |   | v |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | v  |    | v  | v          | v    |       |       |        | v    |      |      |              | v |   |
| Frequency Stability                    | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |    |    | v  |            | v    |       |       |        |      |      | v    |              | v |   |
| Radiated Spurious Emission             | n26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Worst Case      |    |    |    |            |      |       |       |        |      |      |      |              | v |   |
| Note                                   | 1. The mark “v “ means that this configuration is chosen for testing<br>2. The mark “-“ means that this bandwidth is not supported.<br>3. 5G n26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.<br>4. Frequency Stability : Normal Voltage = 3.85V ; Low Voltage =3.50V. ; High Voltage =4.41V |                 |    |    |    |            |      |       |       |        |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment       | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|-----------------|------------|-----------|--------|------------|-------------------|
| 1.   | DC Power Supply | GW         | GPS-3030D | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | Base Station    | Anritsu    | MT8821    | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss.

*Offset = RF cable loss.*

The following shows an offset computation example with RF cable loss 7.5 dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 7.5 \text{ (dB)}
 \end{aligned}$$



## 2.5 Frequency List of Low/Middle/High Channels

| 5G NR n26 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                   | Channel                | -      | 163800 | -       |
|                                      | Frequency              | -      | 819    | -       |
| 5                                    | Channel                | 163300 | 163800 | 164300  |
|                                      | Frequency              | 816.5  | 819    | 821.5   |

| 5G NR n26 Cross-rule Channel and Frequency List |                        |   |        |   |
|-------------------------------------------------|------------------------|---|--------|---|
| BW [MHz]                                        | Channel/Frequency(MHz) | - | Middle | - |
| 20                                              | Channel                | - | 164800 | - |
|                                                 | Frequency              | - | 824    | - |
| 15                                              | Channel                | - | 164300 | - |
|                                                 | Frequency              | - | 821.5  | - |

### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

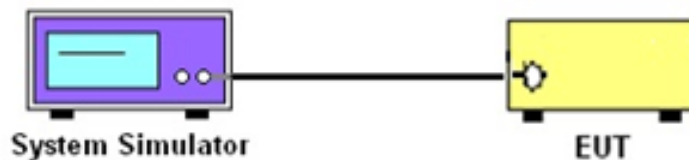
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

## 3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

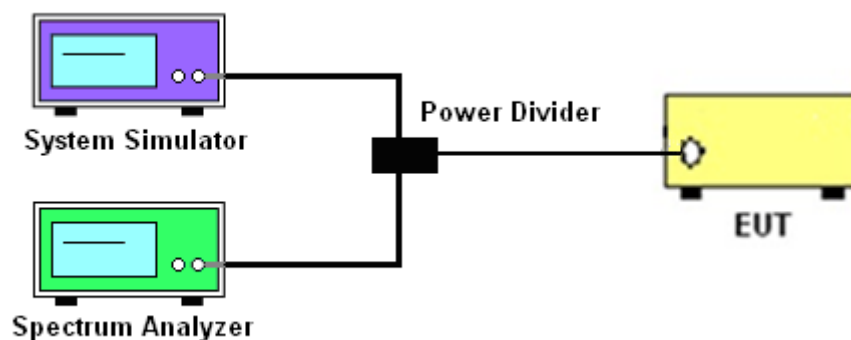
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

### 3.2.4 Test Setup



### 3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

### 3.3 Emissions Mask Measurement

#### 3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

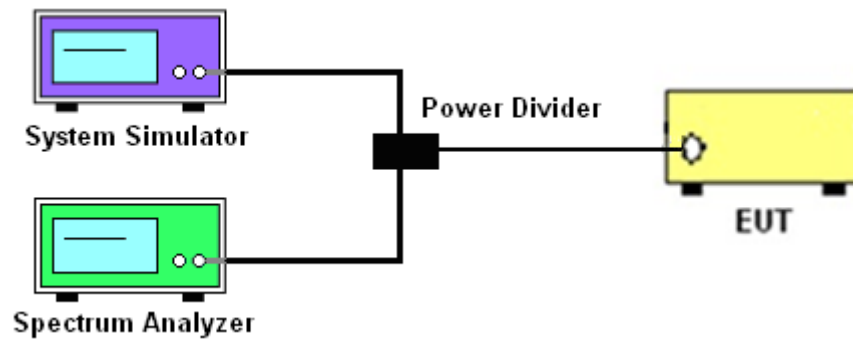
#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor  $10 \log (1\% \text{ of OBW/measured RBW})(\text{dB})$  was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

### 3.3.4 Test Setup



### 3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.



### 3.4 Emissions Mask – Out Of Band Emissions Measurement

#### 3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

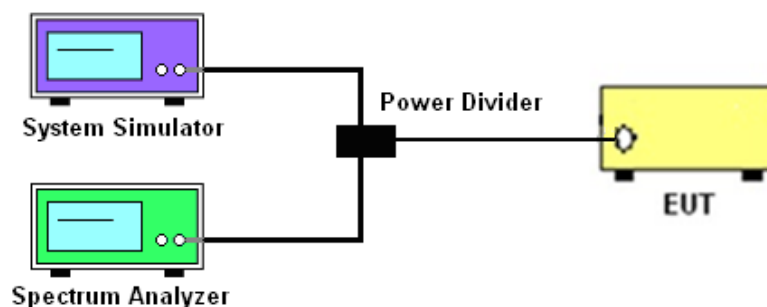
#### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

#### 3.4.4 Test Setup



#### 3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

### 3.5 Field Strength of Spurious Radiation Measurement

#### 3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.5.2 Measuring Instruments

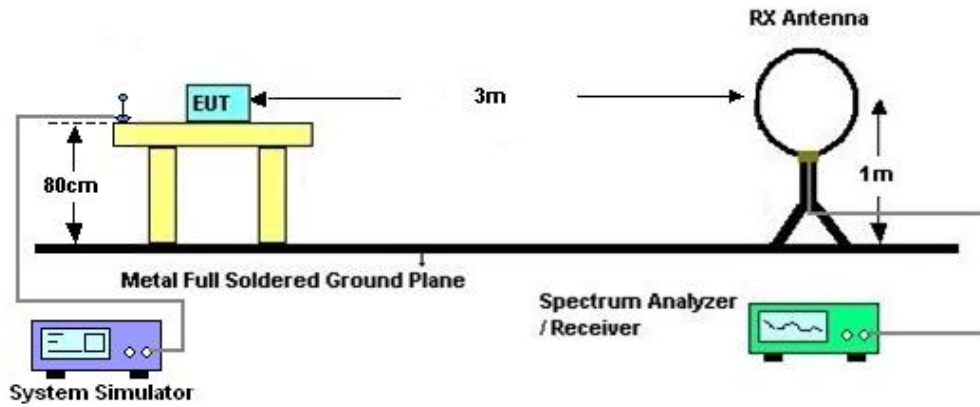
The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

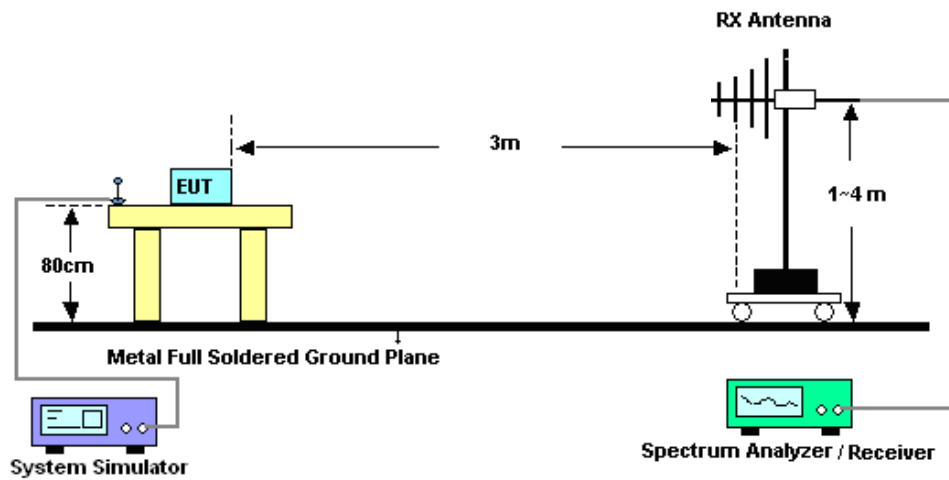
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10 \log(P)$  dB below the transmitter power P(Watts)

### 3.5.4 Test Setup

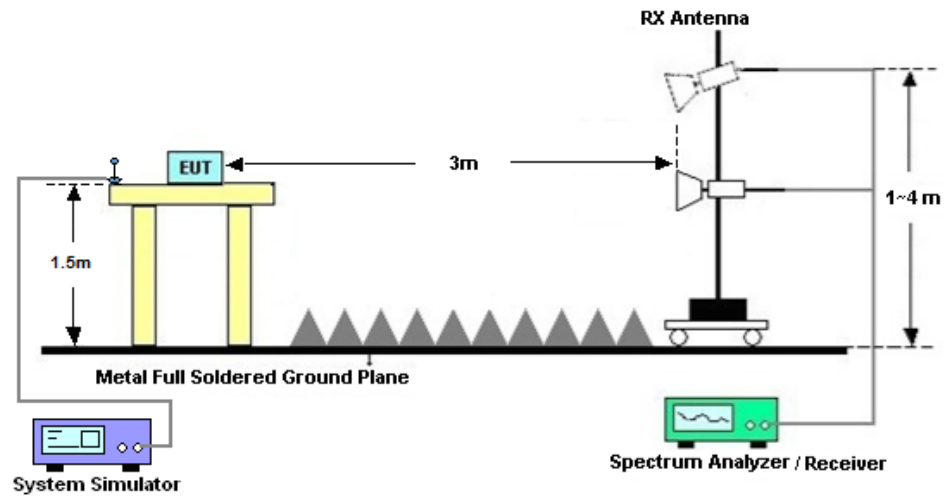
For radiated test from 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 3.5.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

## 3.6 Frequency Stability Measurement

### 3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency according to FCC Part 90.213.

### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

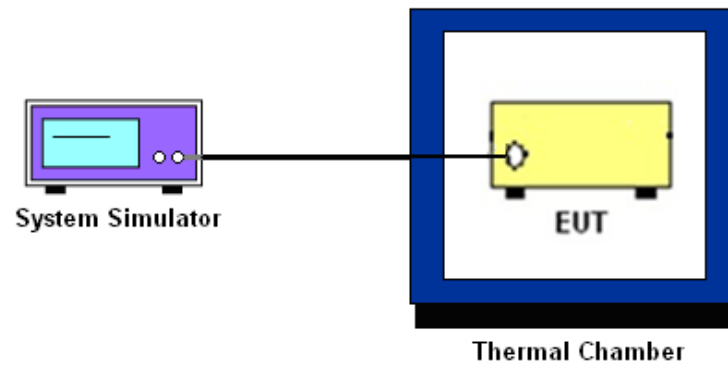
### 3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.6.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
4. battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

### 3.6.5 Test Setup



### 3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.



## 4 List of Measuring Equipment

| Instrument                     | Manufacturer | Model No.     | Serial No.      | Characteristics         | Calibration Date | Test Date                       | Due Date      | Remark                |
|--------------------------------|--------------|---------------|-----------------|-------------------------|------------------|---------------------------------|---------------|-----------------------|
| Spectrum Analyzer              | R&S          | FSV40         | 101040          | 10Hz~40GHz              | Oct. 11, 2023    | Jun. 20, 2024~<br>Jul. 05, 2024 | Oct. 10, 2024 | Conducted (TH01-KS)   |
| Power divider                  | STI          | STI08-0055    | -               | 0.5~40GHz               | NCR              | Jun. 20, 2024~<br>Jul. 05, 2024 | NCR           | Conducted (TH01-KS)   |
| Temperature & humidity chamber | Hongzhan     | LP-150U       | H201401144<br>0 | -40~+150°C<br>20%~95%RH | Jul. 05, 2023    | Jun. 20, 2024~<br>Jul. 05, 2024 | Jul. 04, 2024 | Conducted (TH01-KS)   |
| Temperature & humidity chamber | Hongzhan     | LP-150U       | H201401144<br>0 | -40~+150°C<br>20%~95%RH | Jul. 04, 2024    | Jul. 05, 2024                   | Jul. 03, 2025 | Conducted (TH01-KS)   |
| EXA Spectrum Analyzer          | Keysight     | N9010B        | MY5747107<br>9  | 10Hz~44G,MAX<br>30dB    | Oct. 11, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Oct. 10, 2024 | Radiation (03CH04-KS) |
| Loop Antenna                   | R&S          | HFH2-Z2E      | 101125          | 9kHz~30MHz              | Sep. 11, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Sep. 10, 2024 | Radiation (03CH04-KS) |
| Bilog Antenna                  | TeseQ        | CBL6111D      | 59913           | 30MHz~1GHz              | Aug. 19, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Aug. 18, 2024 | Radiation (03CH04-KS) |
| Bilog Antenna                  | TeseQ        | CBL6111D      | 59913           | 30MHz~1GHz              | Aug. 18, 2024    | Aug. 21, 2024                   | Aug. 17, 2025 | Radiation (03CH04-KS) |
| Double Ridge Horn Antenna      | ETS-Lindgren | 3117          | 75957           | 1GHz~18GHz              | Oct. 23, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Oct. 22, 2024 | Radiation (03CH04-KS) |
| SHF-EHF Horn                   | Com-power    | AH-840        | 101070          | 18GHz~40GHz             | Jan. 27, 2024    | Jul. 05, 2024~<br>Aug. 21, 2024 | Jan. 26, 2025 | Radiation (03CH04-KS) |
| Amplifier                      | SONOMA       | 310N          | 413740          | 9KHz~1GHz               | Jan. 03, 2024    | Jul. 05, 2024~<br>Aug. 21, 2024 | Jan. 02, 2025 | Radiation (03CH04-KS) |
| Amplifier                      | EM           | EM18G40G<br>A | 060728          | 18~40GHz                | Jan. 02, 2024    | Jul. 05, 2024~<br>Aug. 21, 2024 | Jan. 01, 2025 | Radiation (03CH04-KS) |
| high gain Amplifier            | EM           | EM01G18G<br>A | 060840          | 1Ghz~18Ghz              | Oct. 11, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Oct. 10, 2024 | Radiation (03CH04-KS) |
| Amplifier                      | EM           | EM01G18G<br>A | 060892          | 1Ghz~18Ghz              | Oct. 11, 2023    | Jul. 05, 2024~<br>Aug. 21, 2024 | Oct. 10, 2024 | Radiation (03CH04-KS) |
| AC Power Source                | Chroma       | 61601         | F104090004      | N/A                     | NCR              | Jul. 05, 2024~<br>Aug. 21, 2024 | NCR           | Radiation (03CH04-KS) |
| Turn Table                     | ChamPro      | EM 1000-T     | 060762-T        | 0~360 degree            | NCR              | Jul. 05, 2024~<br>Aug. 21, 2024 | NCR           | Radiation (03CH04-KS) |
| Antenna Mast                   | ChamPro      | EM 1000-A     | 060762-A        | 1 m~4 m                 | NCR              | Jul. 05, 2024~<br>Aug. 21, 2024 | NCR           | Radiation (03CH04-KS) |

NCR: No Calibration Required

## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

|                                        |          |
|----------------------------------------|----------|
| Conducted Spurious Emission & Bandedge | ±2.26 dB |
| Occupied Channel Bandwidth             | ±0.1%    |
| Conducted Power                        | ±0.46 dB |
| Peak to Average Ratio                  | ±0.46 dB |
| Frequency Stability                    | ±0.4 Hz  |

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

|                                                                     |      |
|---------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.30 |
|---------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                     |      |
|---------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.83 |
|---------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                     |      |
|---------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.83 |
|---------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                     |      |
|---------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.82 |
|---------------------------------------------------------------------|------|

----- THE END -----





## Appendix A. Test Results of Conducted Test

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Simle Wang | Temperature :       | 22~23°C |
|                 |            | Relative Humidity : | 40~42%  |

### Conducted Output Power

| NR<br>Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | Arfcn  | Freq<br>(MHz) | Modulation           | RB    | Conducted<br>Power(dBm) | Conducted<br>Power (W) |
|------------|--------------|--------------------|--------|---------------|----------------------|-------|-------------------------|------------------------|
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM QPSK      | 1@1   | 24.37                   | 0.2735                 |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM 16 QAM    | 1@1   | 23.35                   | 0.2163                 |
| 26         | 15           | 5                  | 163800 | 819           | DFT-s-OFDM QPSK      | 1@1   | 24.4                    | 0.2754                 |
| 26         | 15           | 5                  | 163800 | 819           | DFT-s-OFDM 16 QAM    | 1@1   | 23.44                   | 0.2208                 |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM QPSK      | 1@1   | 24.41                   | 0.2761                 |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM 16 QAM    | 1@1   | 23.54                   | 0.2259                 |
| 26         | 15           | 10                 | 163800 | 819           | DFT-s-OFDM QPSK      | 1@1   | 24.43                   | 0.2773                 |
| 26         | 15           | 10                 | 163800 | 819           | DFT-s-OFDM 16 QAM    | 1@1   | 23.42                   | 0.2198                 |
| 26         | 15           | 15                 | 164300 | 821.5         | DFT-s-OFDM QPSK      | 1@1   | 24.35                   | 0.2723                 |
| 26         | 15           | 15                 | 164300 | 821.5         | DFT-s-OFDM 16 QAM    | 1@1   | 23.29                   | 0.2133                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM PI/2 BPSK | 50@25 | 24.41                   | 0.2761                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM PI/2 BPSK | 1@1   | 24.26                   | 0.2667                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM PI/2 BPSK | 1@104 | 24.31                   | 0.2698                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM QPSK      | 50@25 | 24.39                   | 0.2748                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM QPSK      | 1@1   | 24.45                   | 0.2786                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM QPSK      | 1@104 | 24.25                   | 0.2661                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 16 QAM    | 50@25 | 23.26                   | 0.2118                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 16 QAM    | 1@1   | 23.38                   | 0.2178                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 16 QAM    | 1@104 | 23.35                   | 0.2163                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 64 QAM    | 50@25 | 21.78                   | 0.1507                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 64 QAM    | 1@1   | 21.91                   | 0.1552                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 64 QAM    | 1@104 | 21.9                    | 0.1549                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 256 QAM   | 50@25 | 19.52                   | 0.0895                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 256 QAM   | 1@1   | 19.57                   | 0.0906                 |
| 26         | 15           | 20                 | 164800 | 824           | DFT-s-OFDM 256 QAM   | 1@104 | 19.63                   | 0.0918                 |



|    |    |    |        |     |              |       |       |        |
|----|----|----|--------|-----|--------------|-------|-------|--------|
| 26 | 15 | 20 | 164800 | 824 | CP-OFDM QPSK | 53@26 | 22.93 | 0.1963 |
| 26 | 15 | 20 | 164800 | 824 | CP-OFDM QPSK | 1@1   | 22.89 | 0.1945 |
| 26 | 15 | 20 | 164800 | 824 | CP-OFDM QPSK | 1@104 | 22.91 | 0.1954 |

## Frequency Stability

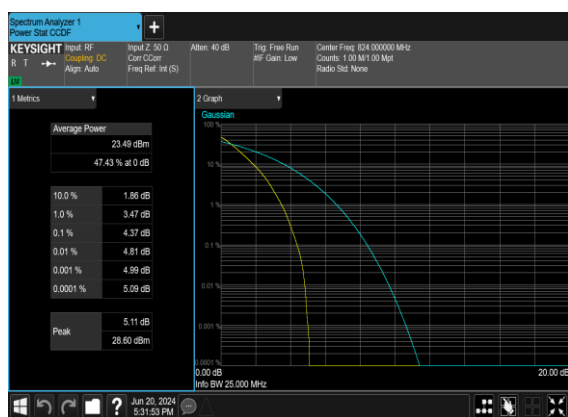
| NR<br>Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | Arfcn  | Freq<br>(MHz) | Modulation      | RB    | Deviation<br>(ppm) | Verdict | Environment |
|------------|--------------|--------------------|--------|---------------|-----------------|-------|--------------------|---------|-------------|
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0052             | PASS    | NV          |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0042             | PASS    | LV          |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0030             | PASS    | HV          |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0054             | PASS    | -30℃        |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0034             | PASS    | -20℃        |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0031             | PASS    | -10℃        |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0034             | PASS    | 0℃          |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0030             | PASS    | 10℃         |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0052             | PASS    | 20℃         |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0039             | PASS    | 30℃         |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0040             | PASS    | 40℃         |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | 0.0021             | PASS    | 50℃         |



## Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation           | RB    | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|----------------------|-------|-------------|------------|---------|
| 26      | 15        | 20              | 164800 | 824.0      | DFT-s-OFDM PI/2 BPSK | 100@0 | 4.37        | 13         | PASS    |
| 26      | 15        | 20              | 164800 | 824.0      | DFT-s-OFDM QPSK      | 100@0 | 5.68        | 13         | PASS    |

N26(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH

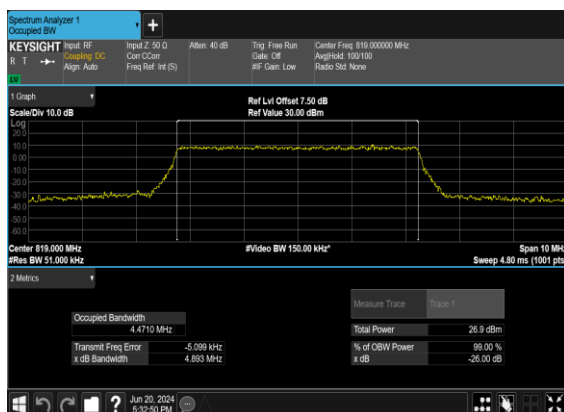


**Occupied Bandwidth**

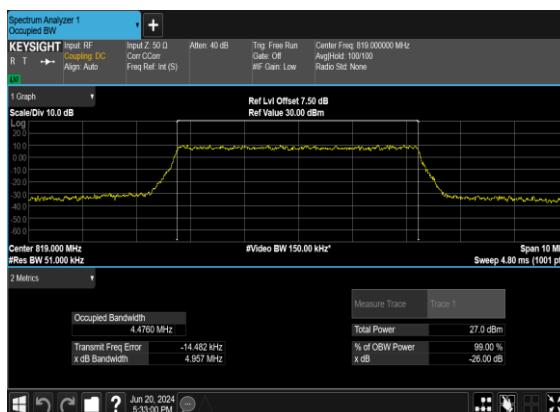
| NR<br>Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | Arfcn  | Freq<br>(MHz) | Modulation      | RB    | OBW<br>(MHz) | 26dB BW<br>(MHz) |
|------------|--------------|--------------------|--------|---------------|-----------------|-------|--------------|------------------|
| 26         | 15           | 5                  | 163800 | 819.0         | CP-OFDM QPSK    | 25@0  | 4.471        | 4.893            |
| 26         | 15           | 5                  | 163800 | 819.0         | CP-OFDM 16 QAM  | 25@0  | 4.476        | 4.957            |
| 26         | 15           | 5                  | 163800 | 819.0         | CP-OFDM 64 QAM  | 25@0  | 4.4563       | 4.869            |
| 26         | 15           | 5                  | 163800 | 819.0         | CP-OFDM 256 QAM | 25@0  | 4.4769       | 4.897            |
| 26         | 15           | 10                 | 163800 | 819.0         | CP-OFDM QPSK    | 52@0  | 9.2863       | 9.84             |
| 26         | 15           | 10                 | 163800 | 819.0         | CP-OFDM 16 QAM  | 52@0  | 9.2687       | 9.798            |
| 26         | 15           | 10                 | 163800 | 819.0         | CP-OFDM 64 QAM  | 52@0  | 9.2928       | 9.837            |
| 26         | 15           | 10                 | 163800 | 819.0         | CP-OFDM 256 QAM | 52@0  | 9.272        | 9.824            |
| 26         | 15           | 15                 | 164300 | 821.5         | CP-OFDM QPSK    | 79@0  | 14.064       | 14.69            |
| 26         | 15           | 15                 | 164300 | 821.5         | CP-OFDM 16 QAM  | 79@0  | 14.046       | 14.69            |
| 26         | 15           | 15                 | 164300 | 821.5         | CP-OFDM 64 QAM  | 79@0  | 14.088       | 14.71            |
| 26         | 15           | 15                 | 164300 | 821.5         | CP-OFDM 256 QAM | 79@0  | 14.084       | 14.7             |
| 26         | 15           | 20                 | 164800 | 824.0         | CP-OFDM QPSK    | 106@0 | 18.891       | 19.66            |
| 26         | 15           | 20                 | 164800 | 824.0         | CP-OFDM 16 QAM  | 106@0 | 18.876       | 19.65            |
| 26         | 15           | 20                 | 164800 | 824.0         | CP-OFDM 64 QAM  | 106@0 | 18.836       | 19.66            |
| 26         | 15           | 20                 | 164800 | 824.0         | CP-OFDM 256 QAM | 106@0 | 18.865       | 19.74            |



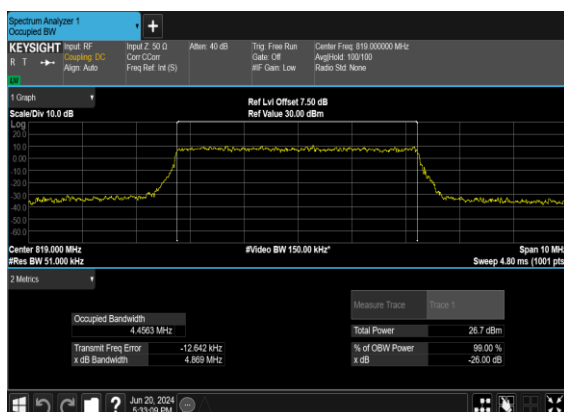
N26(5M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



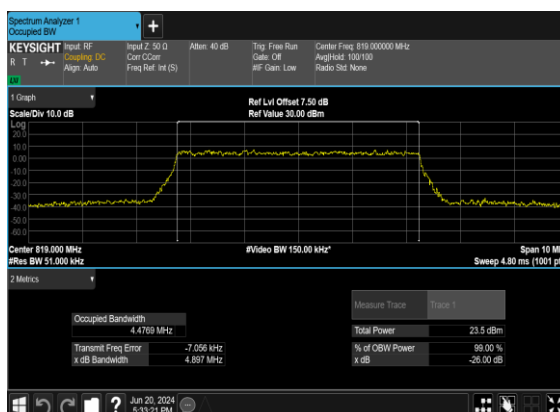
N26(5M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



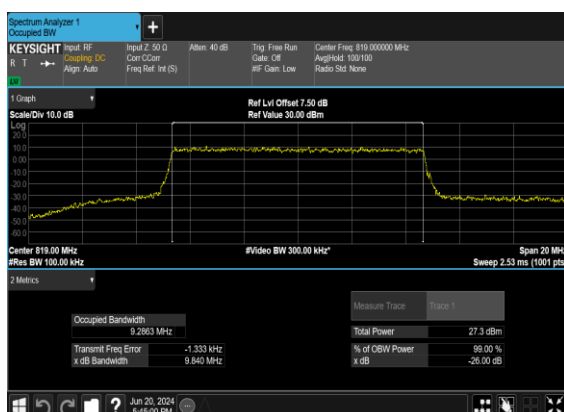
N26(5M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



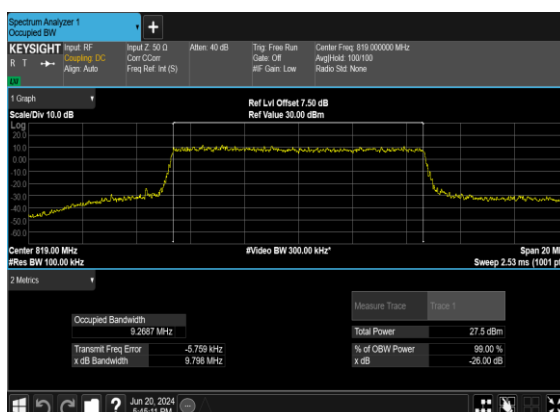
N26(5M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



N26(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH

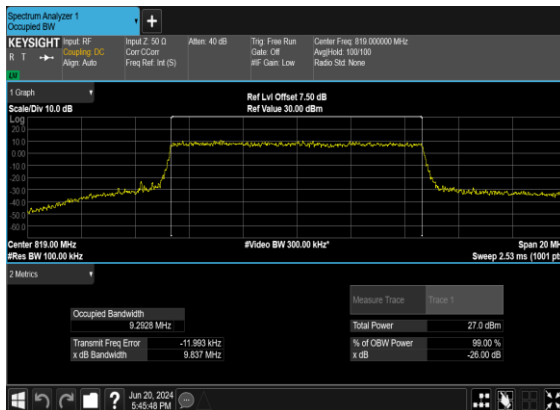


N26(10M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH

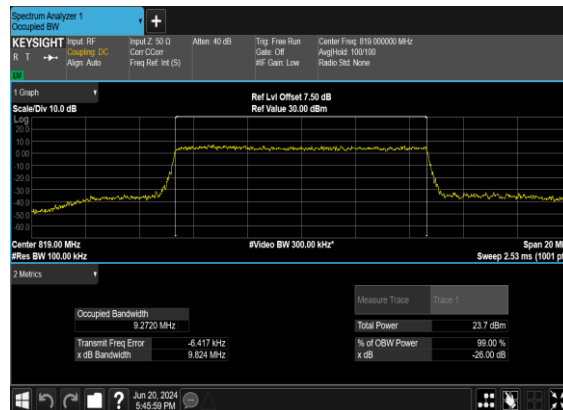




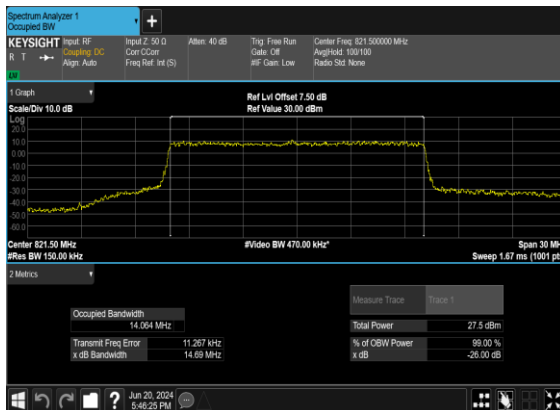
N26(10M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



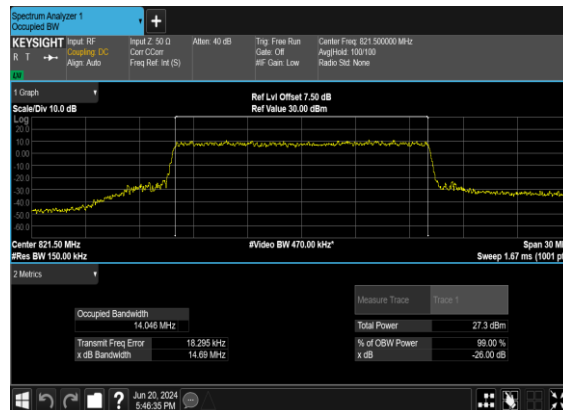
N26(10M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



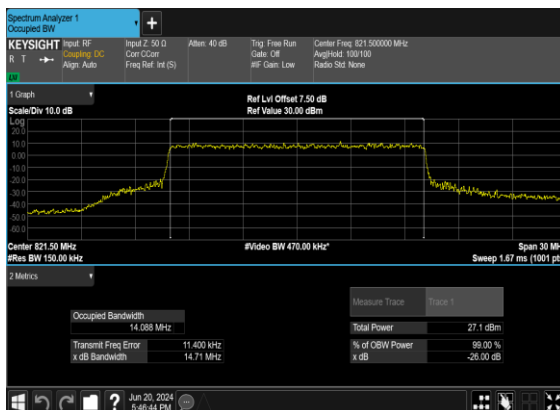
N26(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



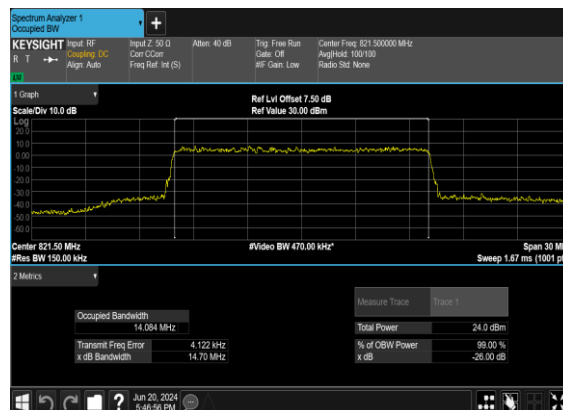
N26(15M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

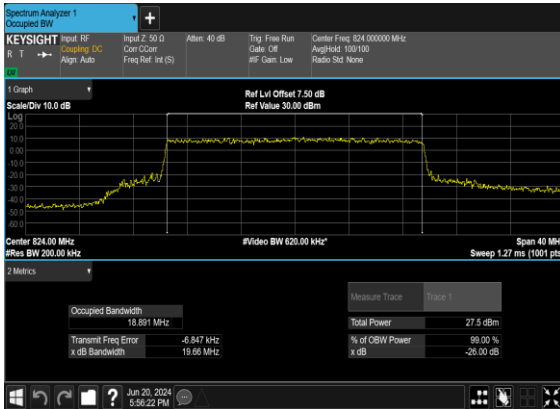


N26(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

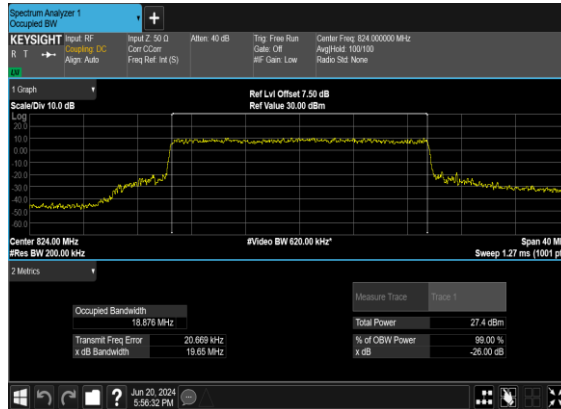




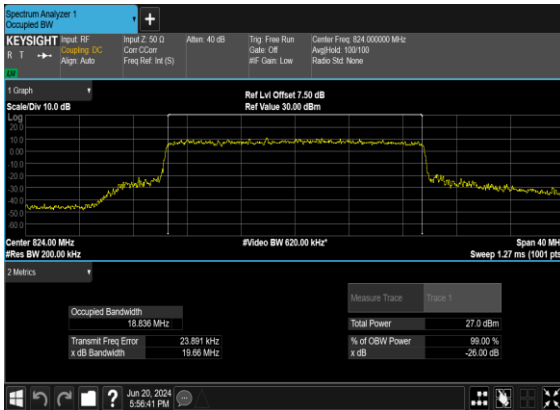
N26(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



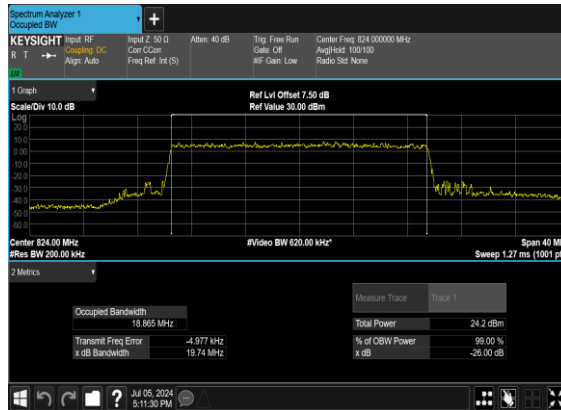
N26(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



N26(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



## Conducted Spurious Emissions

| NR<br>Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | Arfcn  | Freq<br>(MHz) | Modulation      | RB  | Result    | Verdict |
|------------|--------------|--------------------|--------|---------------|-----------------|-----|-----------|---------|
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 5                  | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 5                  | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |

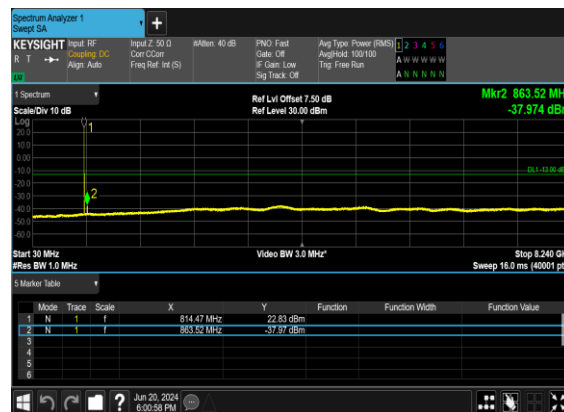




N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



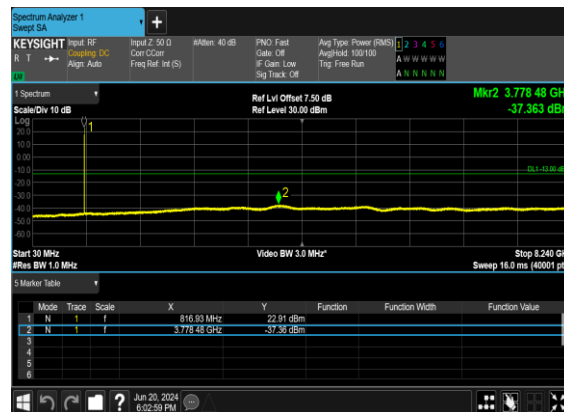
N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



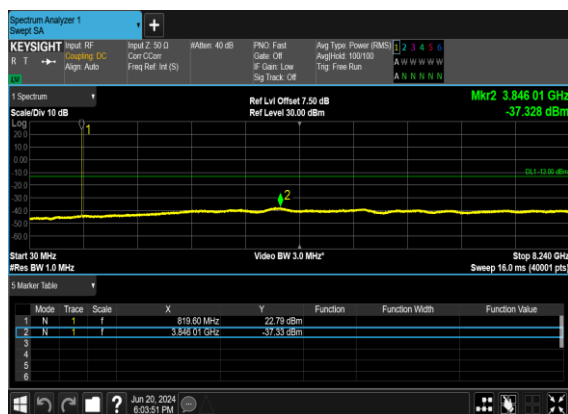
N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



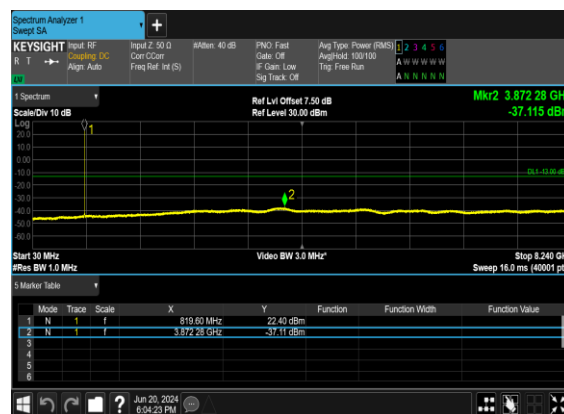
N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH





N26(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

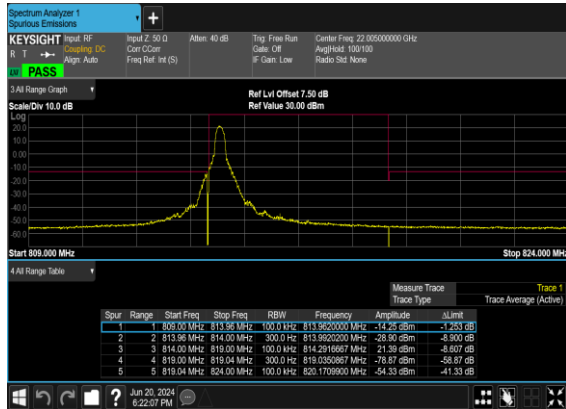


**Conducted Band Edge**

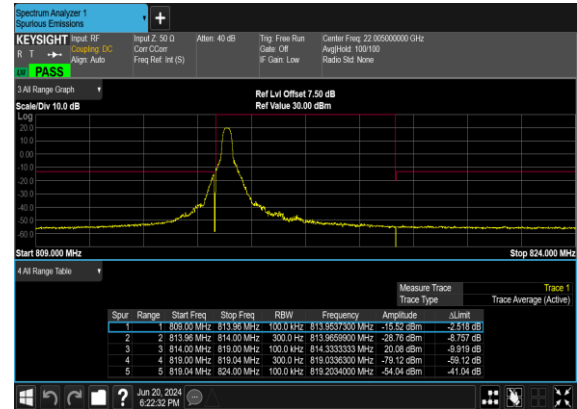
| NR<br>Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | Arfcn  | Freq<br>(MHz) | Modulation      | RB    | Result    | Verdict |
|------------|--------------|--------------------|--------|---------------|-----------------|-------|-----------|---------|
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM BPSK | 25@0  | see graph | PASS    |
| 26         | 15           | 5                  | 163300 | 816.5         | DFT-s-OFDM QPSK | 25@0  | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM BPSK | 1@24  | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM QPSK | 1@24  | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM BPSK | 25@0  | see graph | PASS    |
| 26         | 15           | 5                  | 164300 | 821.5         | DFT-s-OFDM QPSK | 25@0  | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM BPSK | 1@51  | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM QPSK | 1@51  | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM BPSK | 50@0  | see graph | PASS    |
| 26         | 15           | 10                 | 163800 | 819.0         | DFT-s-OFDM QPSK | 50@0  | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM BPSK | 1@105 | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 1@105 | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM BPSK | 100@0 | see graph | PASS    |
| 26         | 15           | 20                 | 164800 | 824.0         | DFT-s-OFDM QPSK | 100@0 | see graph | PASS    |



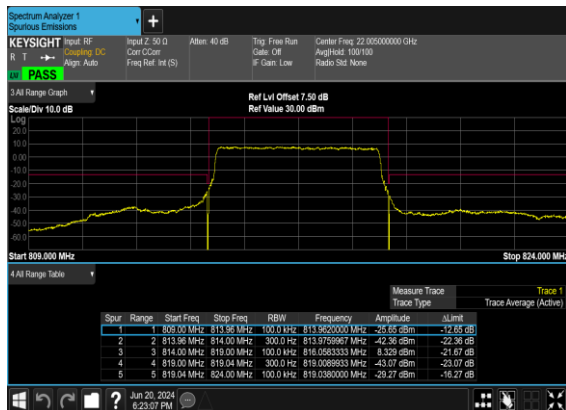
N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



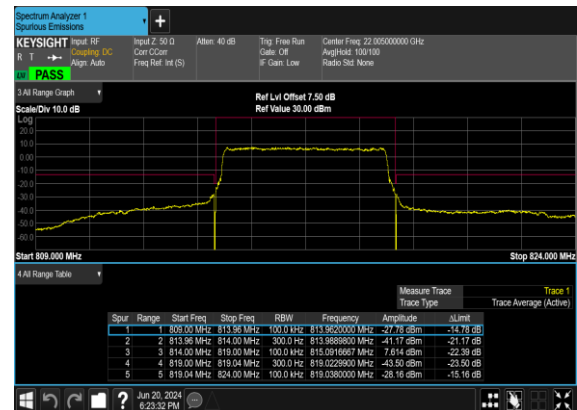
N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



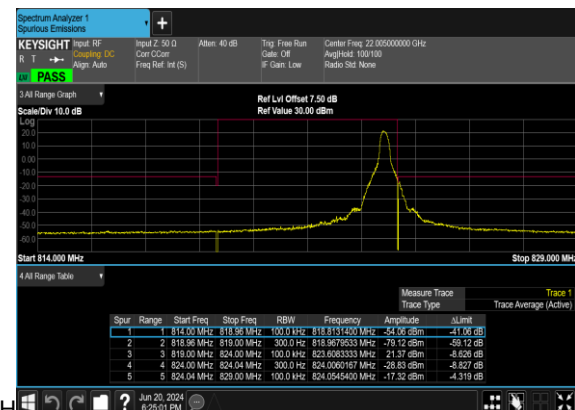
N26(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



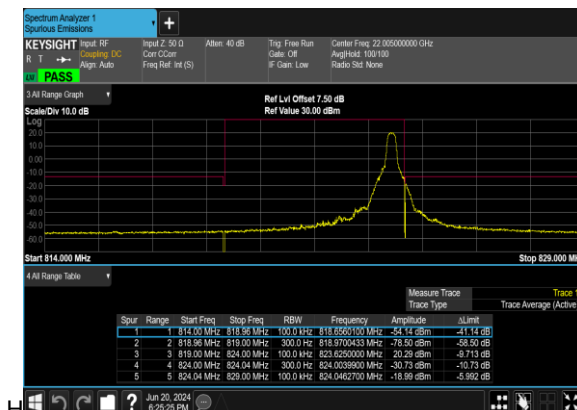
N26(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_C

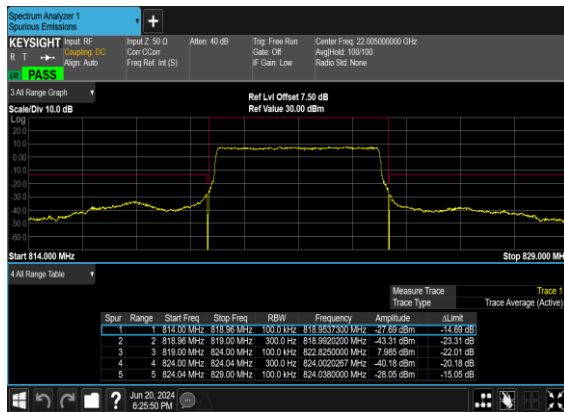


N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_C

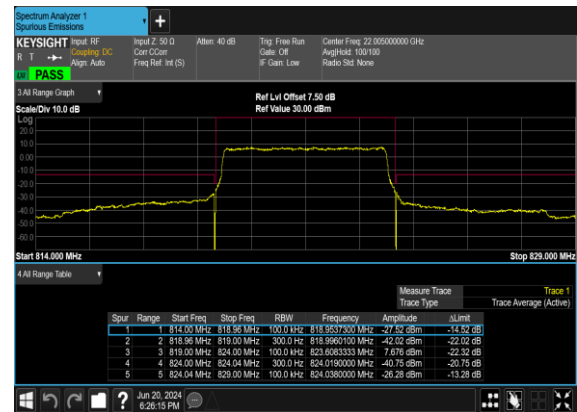




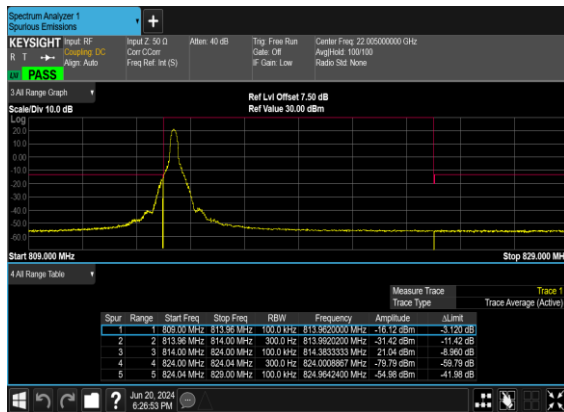
N26(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



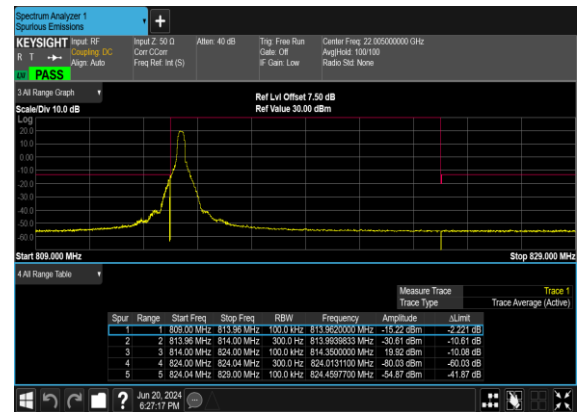
N26(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



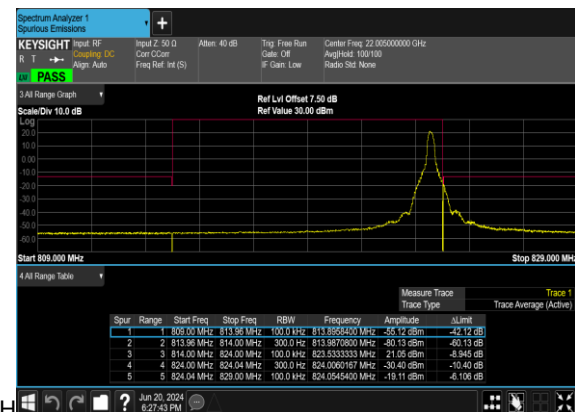
N26(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



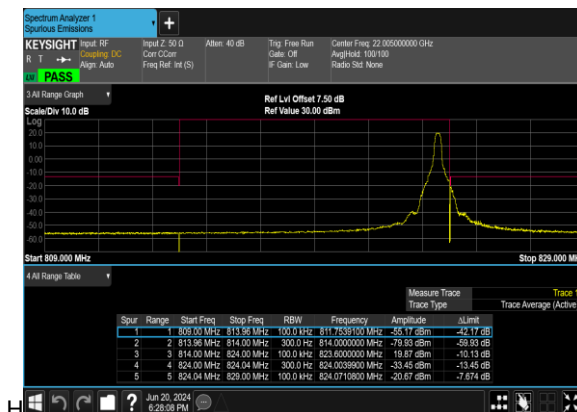
N26(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_Mid\_C

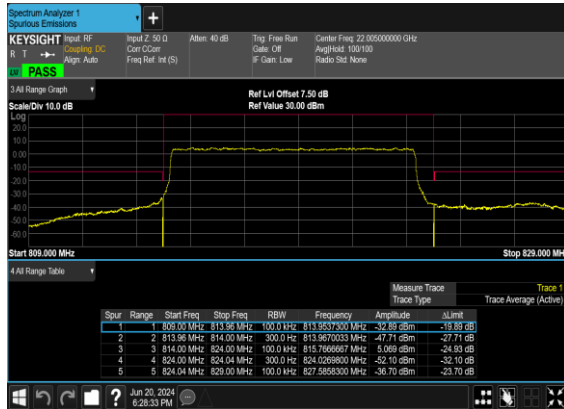


N26(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_C

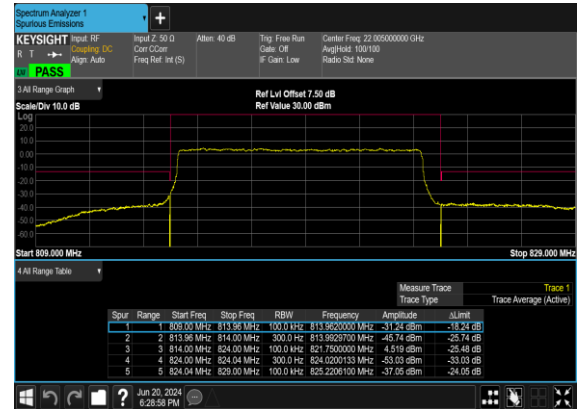




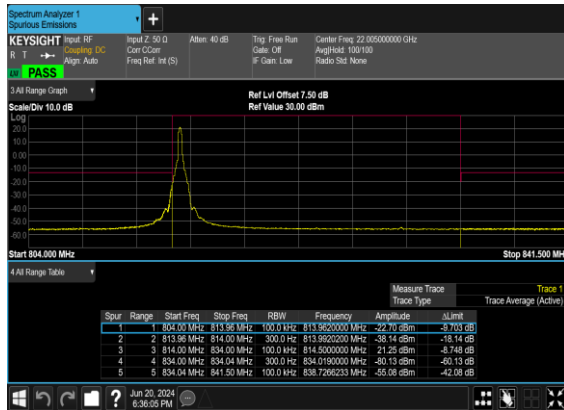
N26(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Mid\_CH



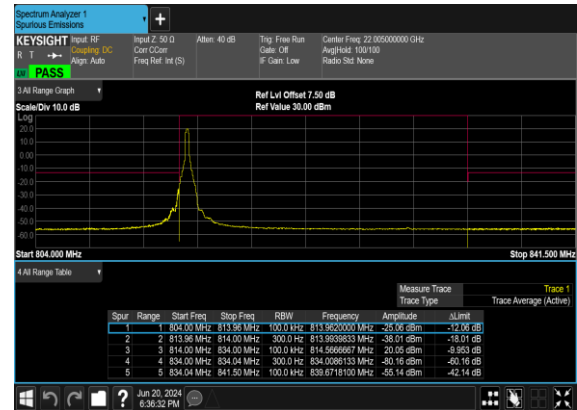
N26(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



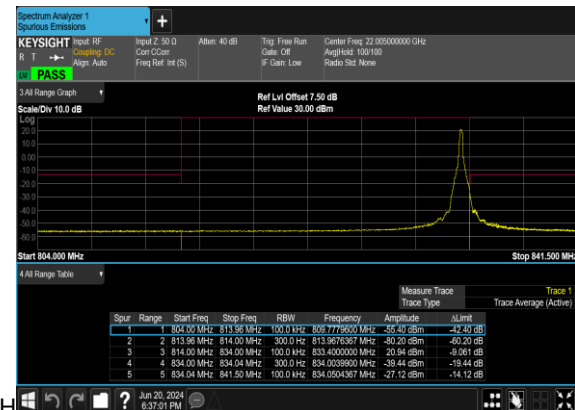
N26(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



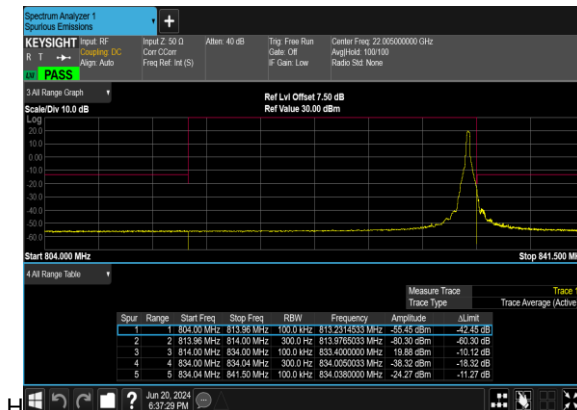
N26(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_Mid\_C

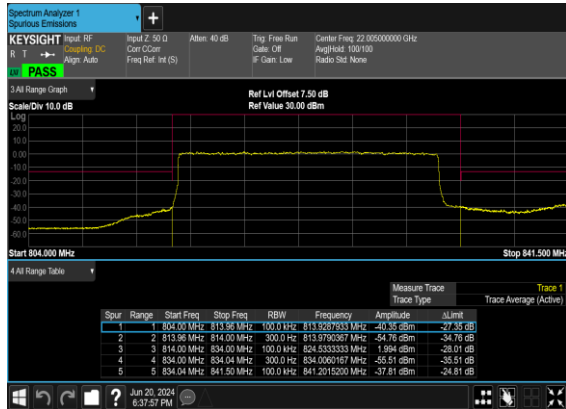


N26(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_Mid\_C

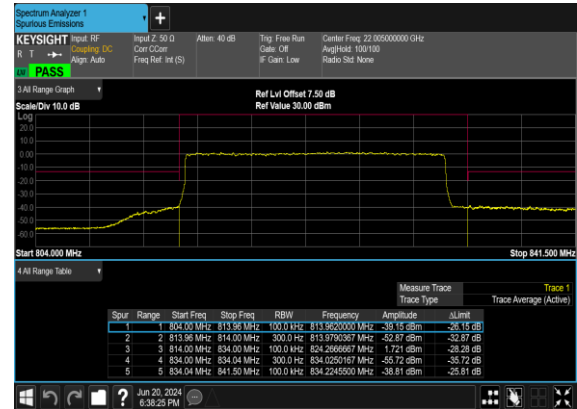




N26(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH





## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Bruce Zhao | Temperature :       | 23~25°C |
|                 |            | Relative Humidity : | 41~42%  |

| n26 SA / NR 20MHz / QPSK for Ant0 |                   |             |               |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                            | 1632              | -59.81      | -13           | -46.81            | -66.78             | 1.58                 | 10.70                 | H                  |
|                                   | 2448              | -60.52      | -13           | -47.52            | -68.77             | 2.102                | 12.50                 | H                  |
|                                   | 3264              | -59.30      | -13           | -46.30            | -68.19             | 2.856                | 13.90                 | H                  |
|                                   | 1632              | -59.88      | -13           | -46.88            | -66.85             | 1.58                 | 10.70                 | V                  |
|                                   | 2448              | -59.12      | -13           | -46.12            | -67.37             | 2.10                 | 12.50                 | V                  |
|                                   | 3264              | -59.42      | -13           | -46.42            | -68.31             | 2.86                 | 13.90                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| n26 SA / NR 20MHz / QPSK for Ant1 |                   |             |               |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                            | 1632              | -66.37      | -13           | -53.37            | -73.34             | 1.58                 | 10.70                 | H                  |
|                                   | 2448              | -61.63      | -13           | -48.63            | -69.88             | 2.102                | 12.50                 | H                  |
|                                   | 3264              | -60.43      | -13           | -47.43            | -69.32             | 2.856                | 13.90                 | H                  |
|                                   | 1632              | -65.91      | -13           | -52.91            | -72.88             | 1.58                 | 10.70                 | V                  |
|                                   | 2448              | -59.75      | -13           | -46.75            | -68.00             | 2.10                 | 12.50                 | V                  |
|                                   | 3264              | -60.41      | -13           | -47.41            | -69.30             | 2.86                 | 13.90                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.