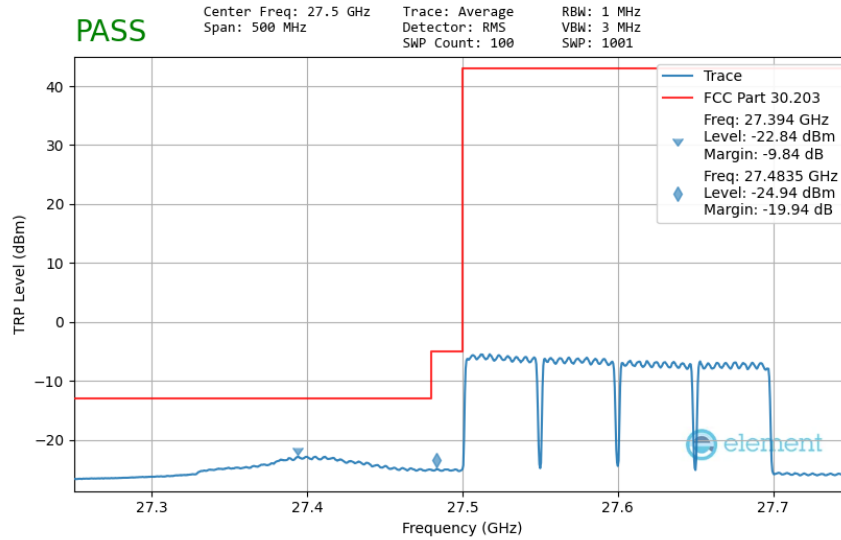
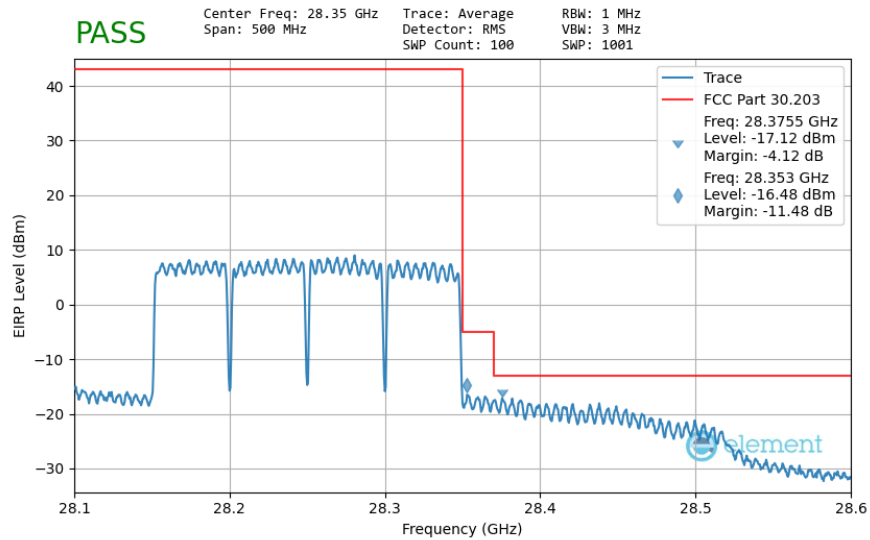


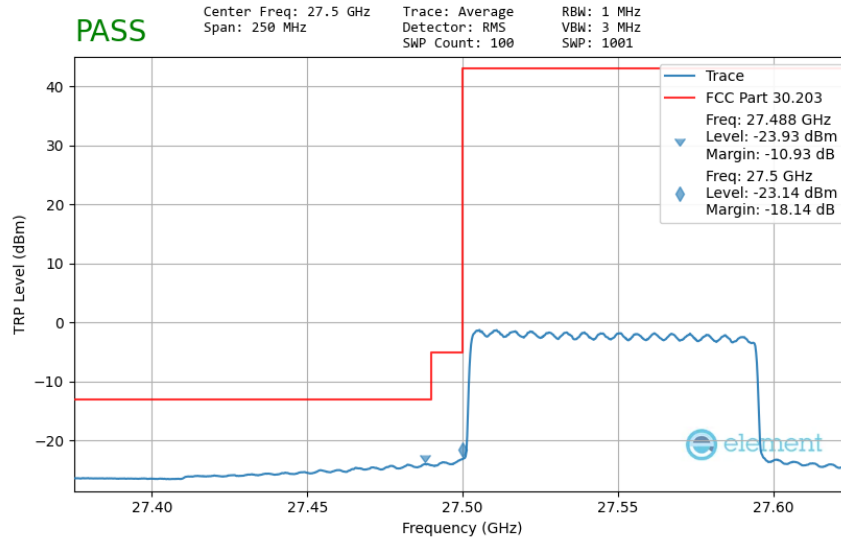


**Plot 7-216.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM M BPSK Full RB) - TRP**

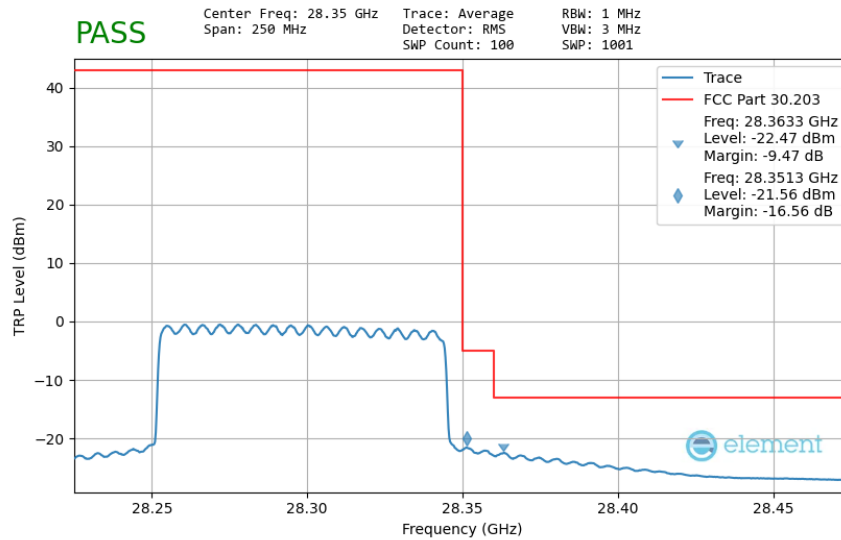


**Plot 7-217.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM BPSK Full RB)**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 160 of 196                   |

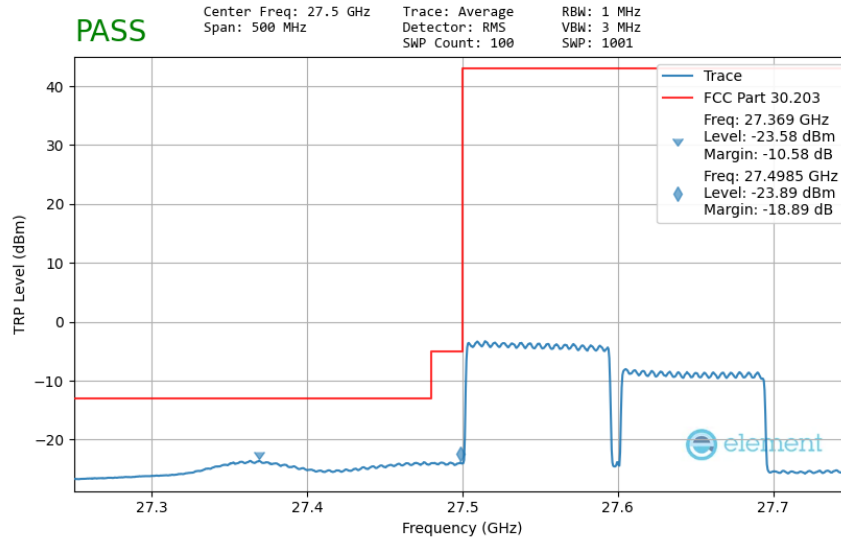


**Plot 7-218.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB) - TRP**

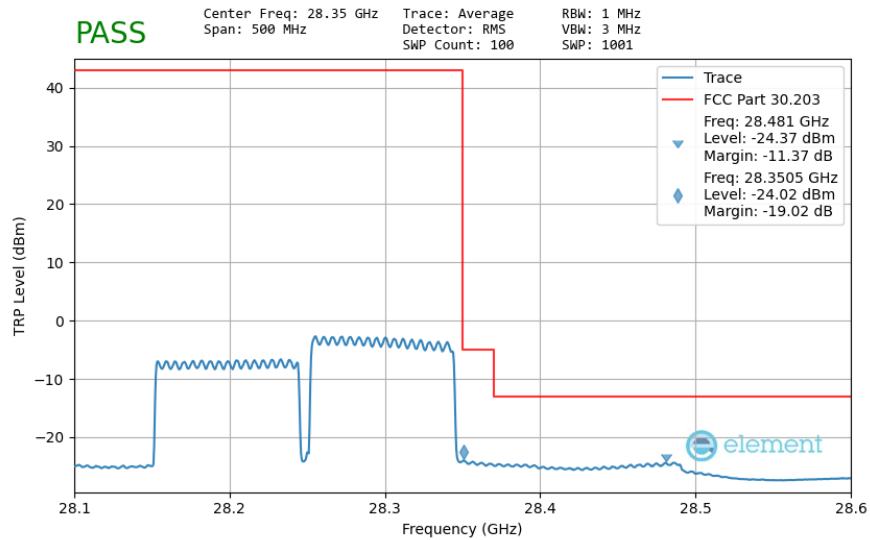


**Plot 7-219.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 161 of 196                   |

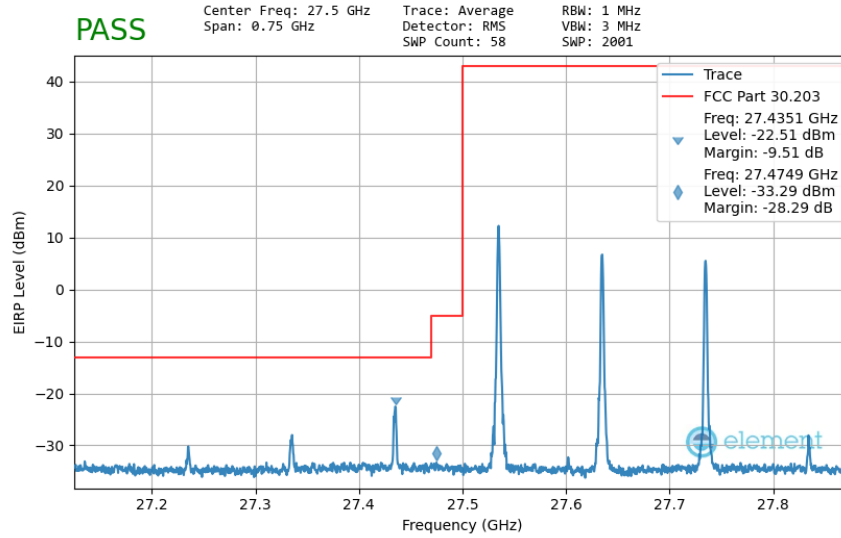


**Plot 7-220.Ant 1 Lower Band Edge (100MHz-2CC - DFT-s -OFDM  $\pi/2$  BPSK Full RB) - TRP**

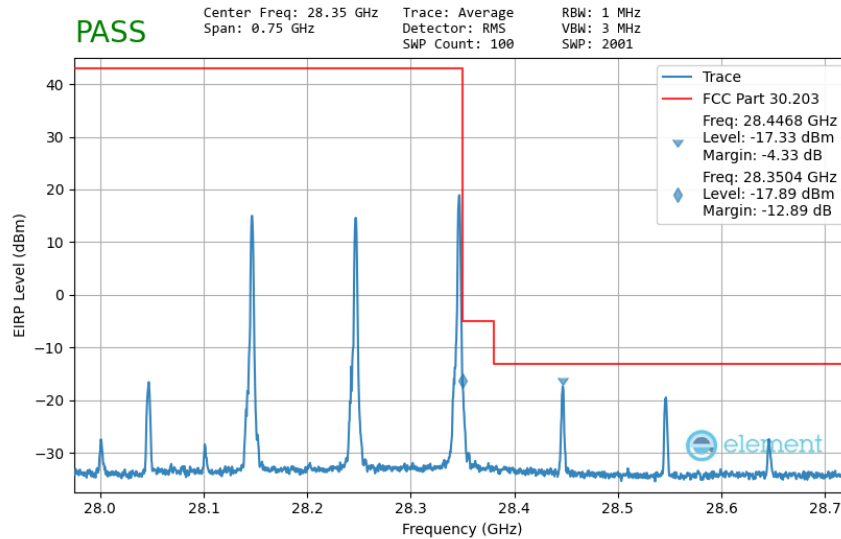


**Plot 7-221.Ant 1 Upper Band Edge (100MHz-2CC – DFT-s-OFDM  $\pi/2$  BPSK Full RB) - TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 162 of 196                   |

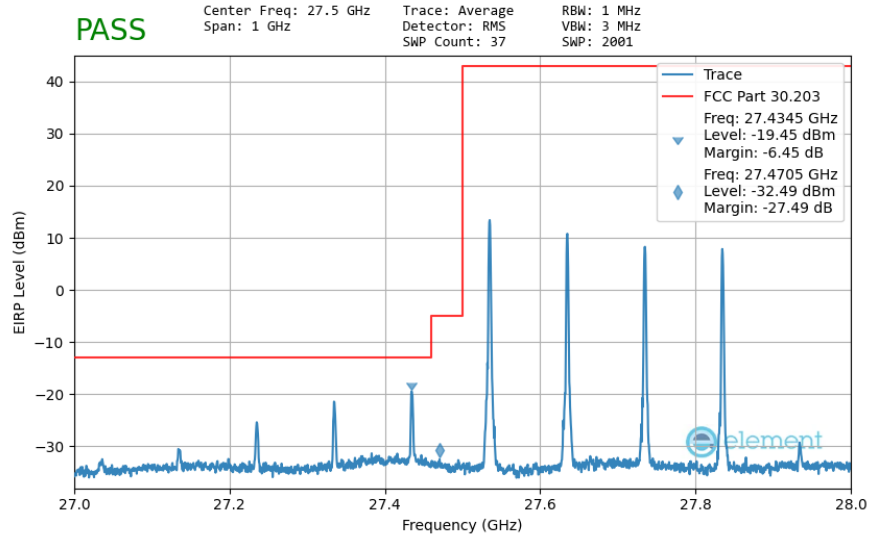


**Plot 7-222.Ant 1 Lower Band Edge (100MHz-3CC – DFT-s-OFDM  $\pi/2$  BPSK 1 RB)**

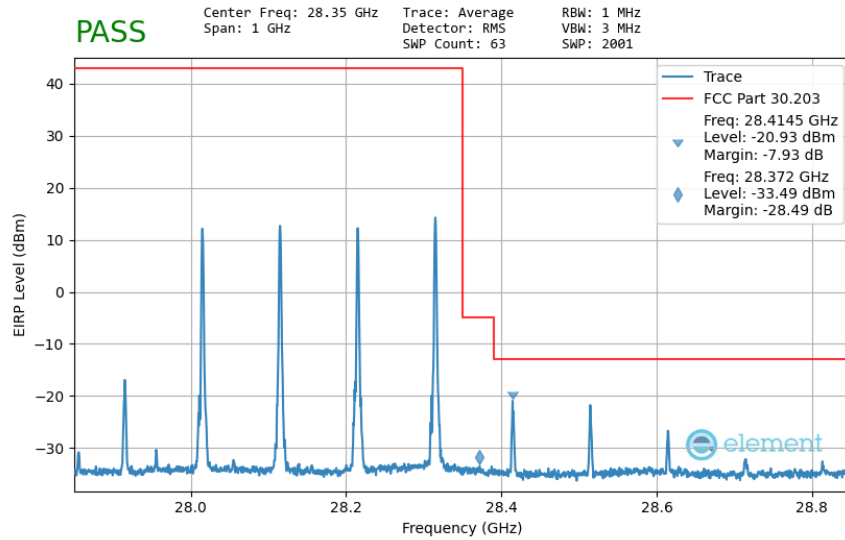


**Plot 7-223.Ant 1 Upper Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)**

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 163 of 196                          |



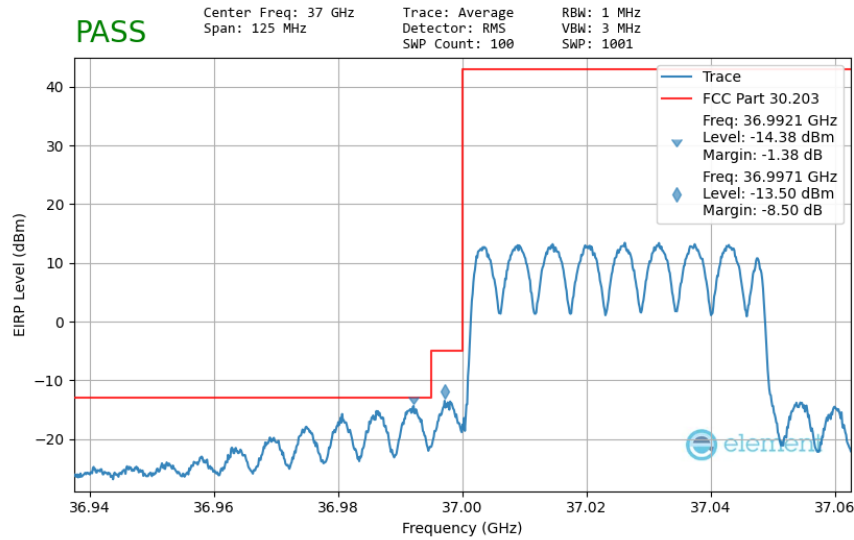
**Plot 7-224.Ant 1 Lower Band Edge (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)**



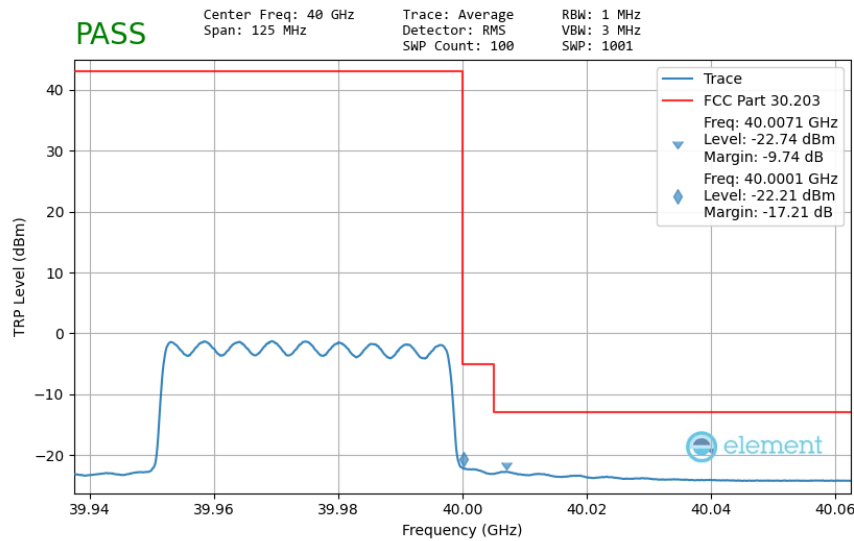
**Plot 7-225.Ant 1 Upper Band Edge (100MHz-4CC – CP-QPSK 1 RB)**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 164 of 196                   |

## Band n260 – Worst Case

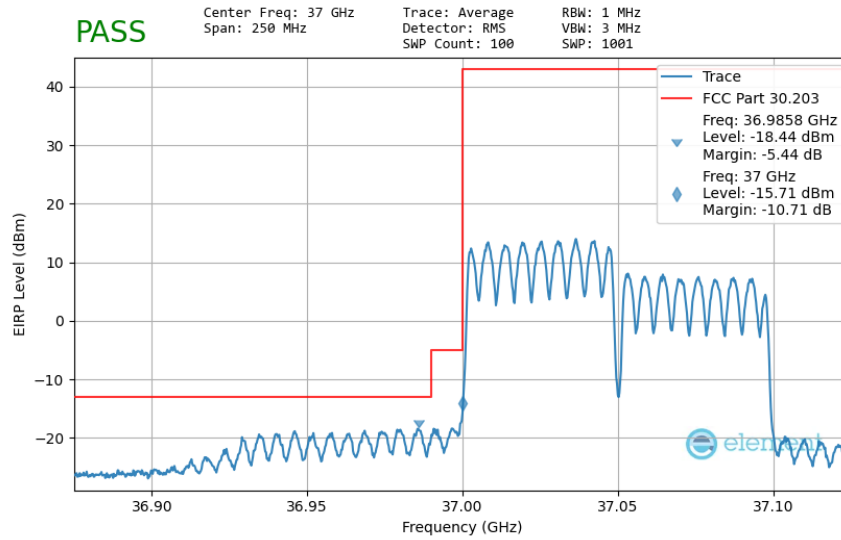


**Plot 7-226. Ant 1 Lower Band Edge (50MHz-1CC – CP-QPSK Full RB)**

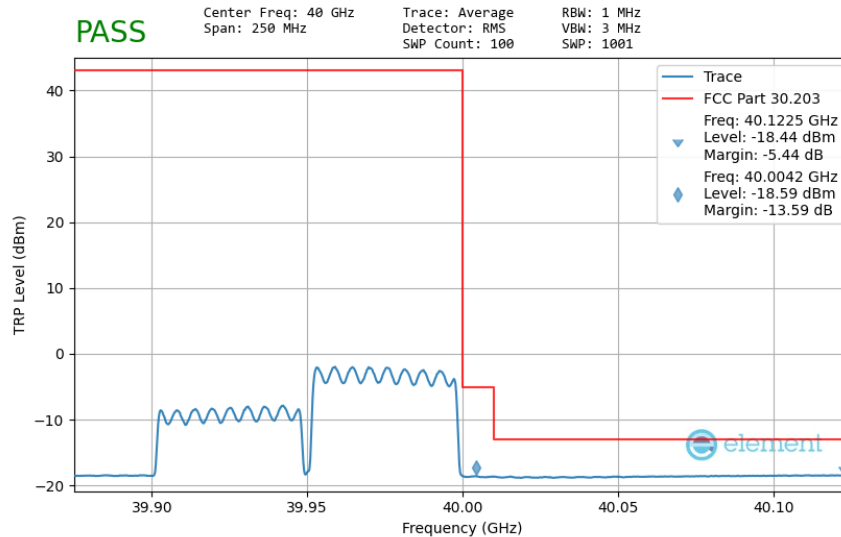


**Plot 7-227. Ant 1 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 165 of 196                   |

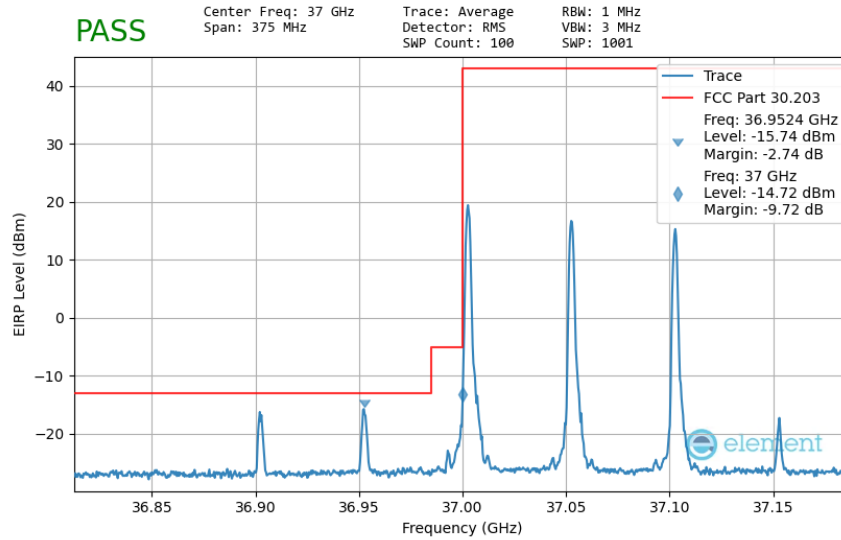


**Plot 7-228. Ant 1 Lower Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB)**

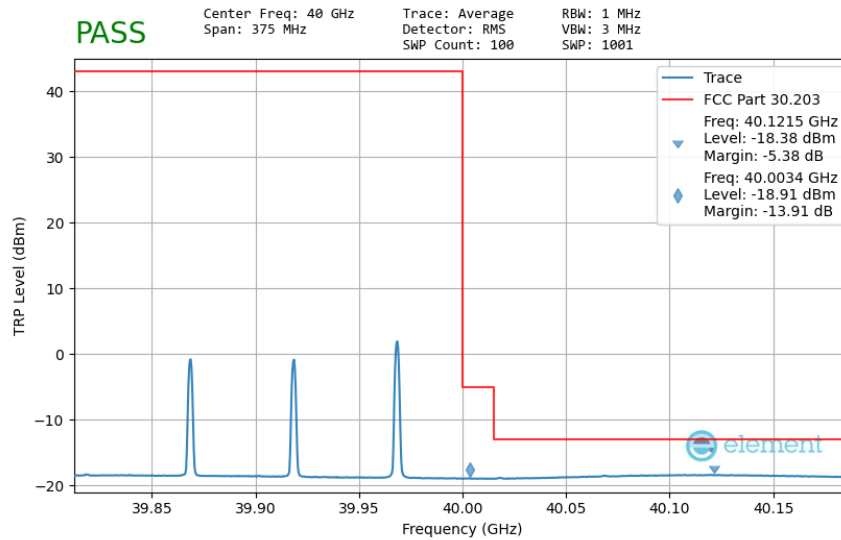


**Plot 7-229. Ant 1 Upper Band Edge (50MHz-2CC – DFT-s-OFDM QPSK Full RB) - TRP**

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 166 of 196                          |

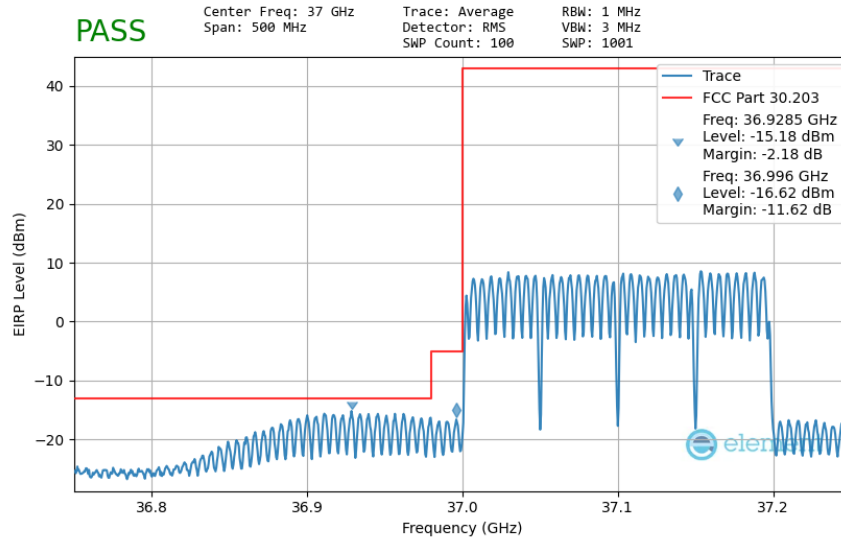


**Plot 7-230.Ant 1 Lower Band Edge (50MHz-3CC- CP-OFDM QPSK 1 RB)**

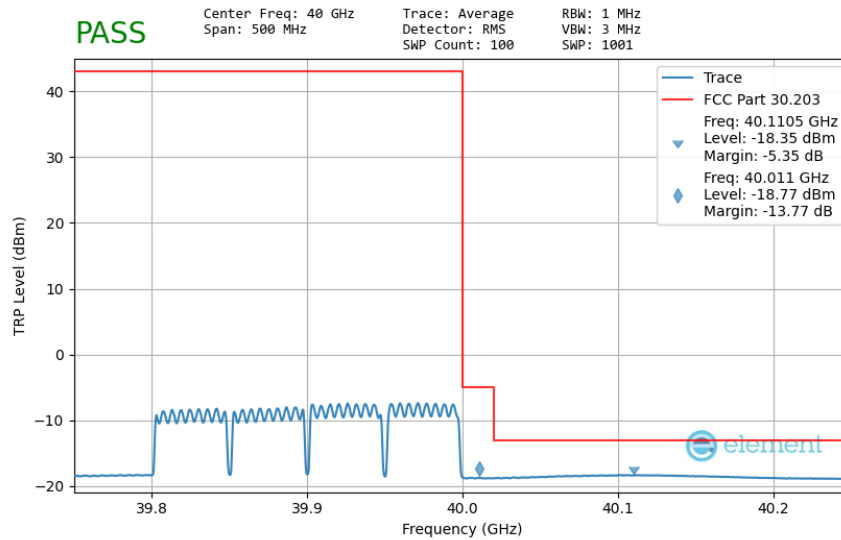


**Plot 7-231.Ant 1 Upper Band Edge (50MHz-3CC – CP-QPSK 1 RB) - TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 167 of 196                   |

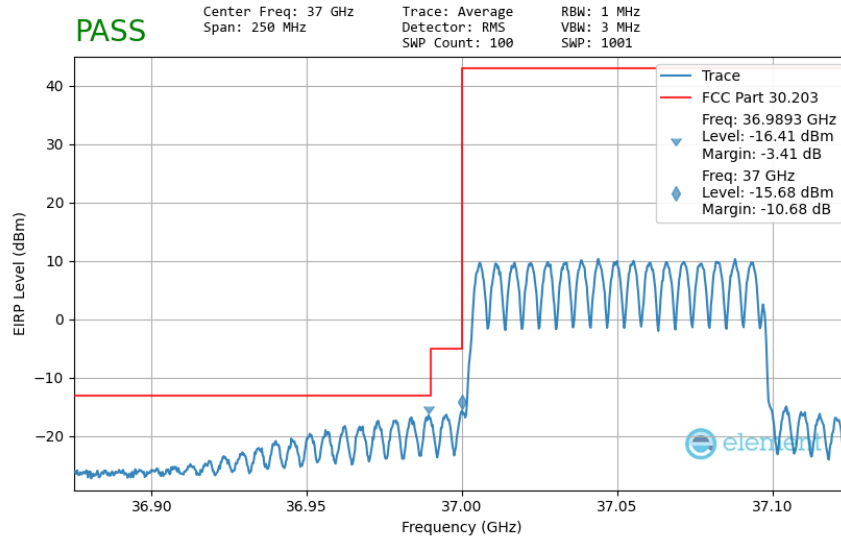


**Plot 7-232.Ant 1 Lower Band Edge (50MHz-4CC- DFT-s -OFDM QPSK Full RB)**

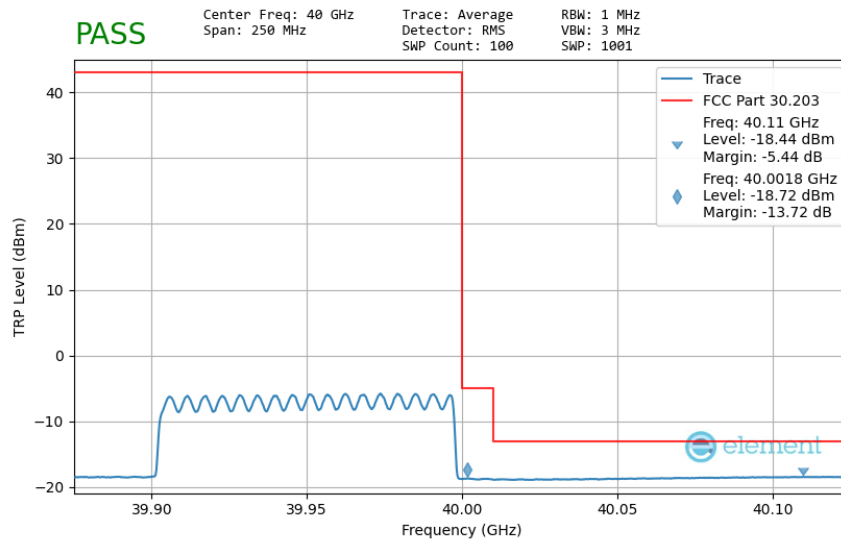


**Plot 7-233.Ant 1 Upper Band Edge (50MHz-4CC - DFT-s -OFDM QPSK Full RB) - TRP**

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 168 of 196                          |

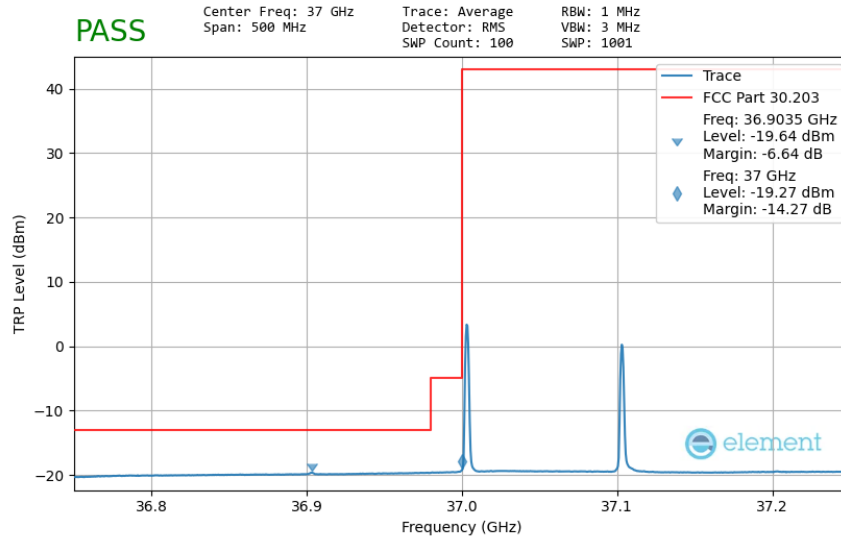


**Plot 7-234.Ant 1 Lower Band Edge (100MHz-1CC – DFT-s -OFDM QPSK Full RB)**

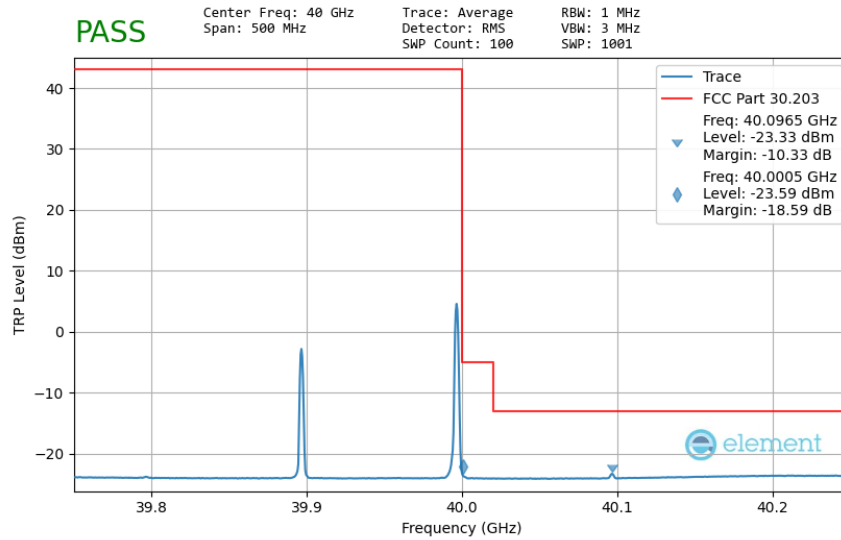


**Plot 7-235.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB) - TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 169 of 196                   |

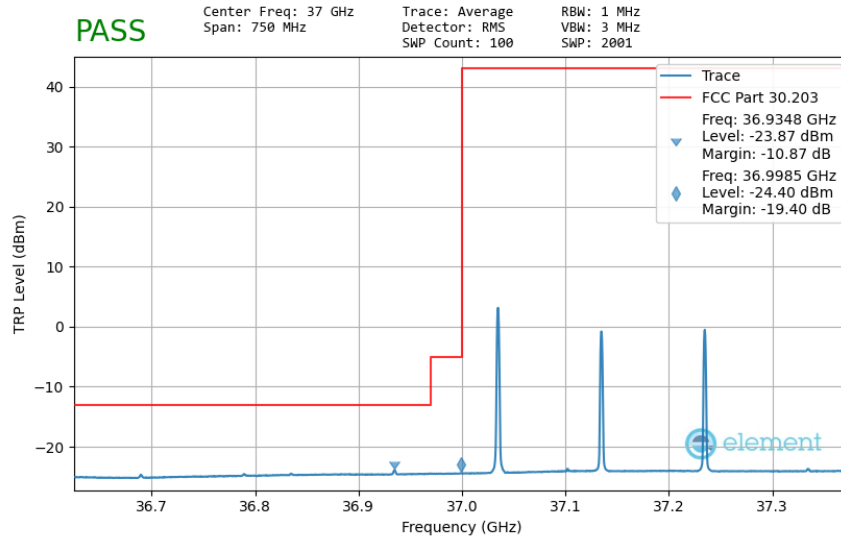


**Plot 7-236.Ant 1 Lower Band Edge (100MHz-2CC - DFT-s -OFDM  $\pi/2$  QPSK 1 RB) - TRP**

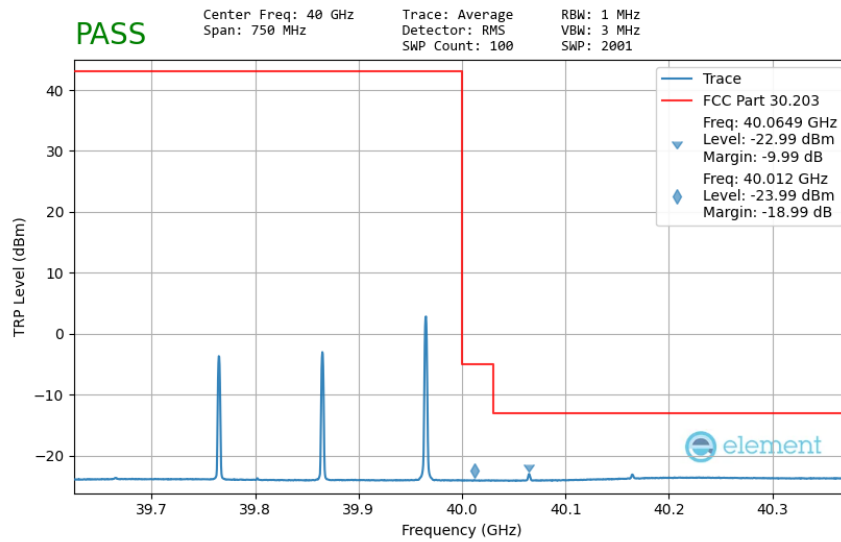


**Plot 7-237.Ant 1 Upper Band Edge (100MHz-2CC – CP-QPSK 1 RB) -TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 170 of 196                   |

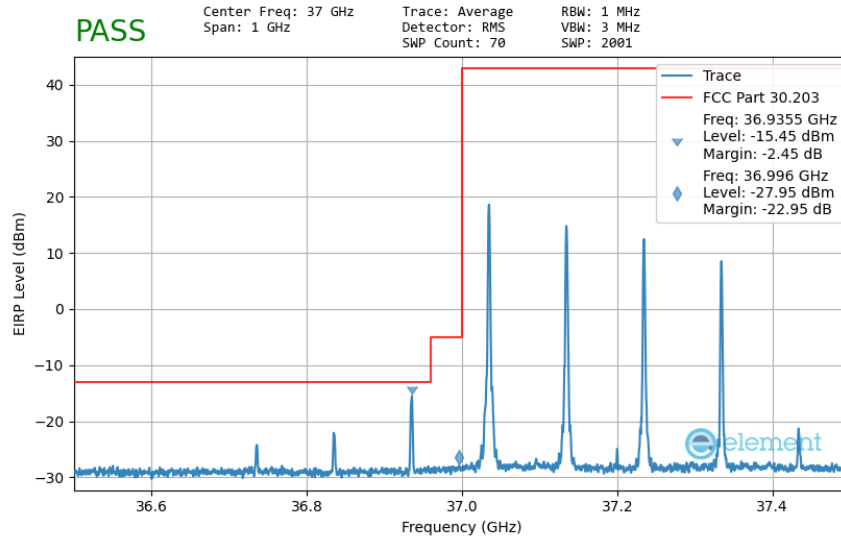


**Plot 7-238.Ant 1 Lower Band Edge (100MHz-3CC – DFT-s-OFDM  $\pi/2$  BPSK 1 RB) - TRP**

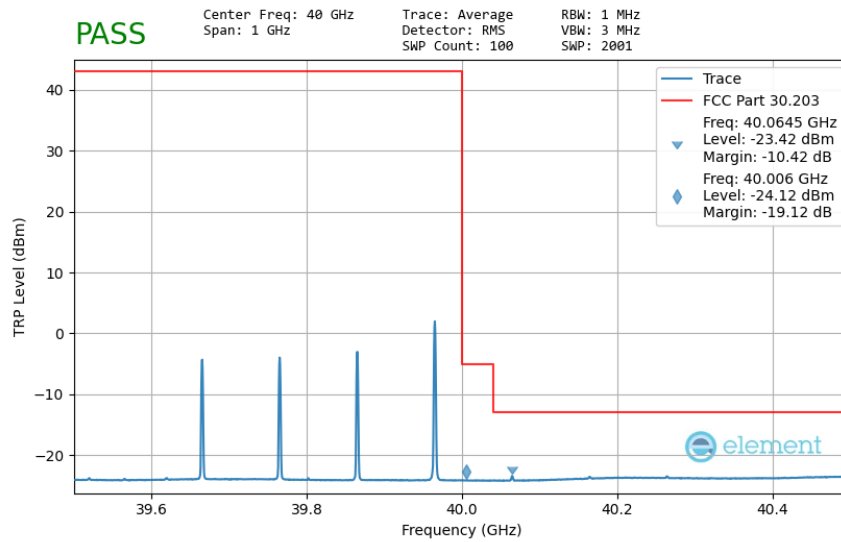


**Plot 7-239.Ant 1 Upper Band Edge (100MHz-3CC – DFT-s-OFDM  $\pi/2$  BPSK 1 RB) -TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 171 of 196                   |



**Plot 7-240.Ant 1 Lower Band Edge (100MHz-4CC – CP- QPSK 1 RB)**



**Plot 7-241.Ant 1 Upper Band Edge (100MHz-4CC – CP- QPSK 1 RB)-TRP**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 172 of 196                   |

## 7.6 Frequency Stability / Temperature Variation

### §2.1055

#### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.56-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

#### Test Procedure Used

ANSI C63.26:2015 Section 5.6  
KDB 842590 D01 v01r03 Section 4.5

#### Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

#### Test Setup

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber that uses a foam plug to maintain the temperature condition inside the chamber. The horn antenna measured the frequency of the fundamental signal.

#### Test Notes

The Frequency Deviation column in the table below is the amount of deviation measured from the center frequency of the Reference measurement (first row).

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 173 of 196                   |

## Frequency Stability Measurements (Band n258)

§2.1055

OPERATING FREQUENCY: 24,349,920,000 Hz  
CHANNEL: 2018331  
REFERENCE VOLTAGE: 4.464V VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 4.464V      | + 20 (Ref) | 24,350,514,510 | 0               | 0.0000000     |
| 100 %          |             | - 30       | 24,350,510,030 | -4,480          | -0.0000184    |
| 100 %          |             | - 20       | 24,350,502,150 | -12,360         | -0.0000508    |
| 100 %          |             | - 10       | 24,350,514,595 | 85              | 0.0000003     |
| 100 %          |             | 0          | 24,350,500,210 | -14,300         | -0.0000587    |
| 100 %          |             | + 10       | 24,350,505,405 | -9,105          | -0.0000374    |
| 100 %          |             | + 30       | 24,350,512,355 | -2,155          | -0.0000088    |
| 100 %          |             | + 40       | 24,350,491,010 | -23,500         | -0.0000965    |
| 100 %          |             | + 50       | 24,350,516,475 | 1,965           | 0.0000081     |
| BATT. ENDPOINT | 3.682V      | + 20       | 24,350,526,300 | 11,790          | 0.0000484     |

**Table 7-41. Frequency Stability Data (n258)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 174 of 196                   |

**Frequency Stability Measurements (Band n258)**  
**§2.1055**

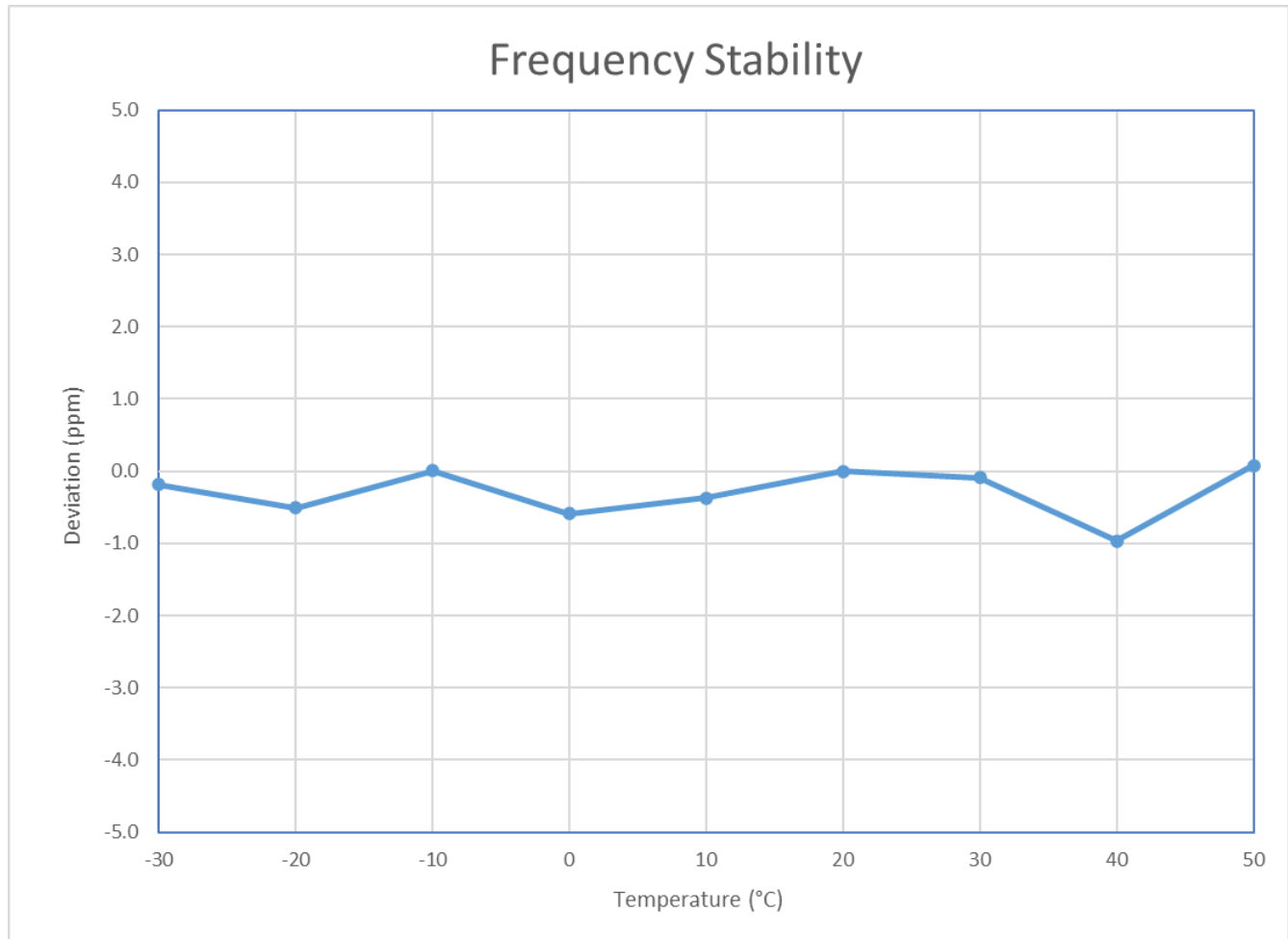


**Table 7-42. Frequency Stability Graph (n258)**

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 175 of 196                   |

## Frequency Stability Measurements (Band n261)

§2.1055

OPERATING FREQUENCY: 27,924,960,000 Hz  
CHANNEL: 2077915  
REFERENCE VOLTAGE: 4.464V VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 4.464V      | + 20 (Ref) | 27,924,865,070 | 0               | 0.0000000     |
| 100 %          |             | - 30       | 27,924,885,225 | 20,155          | 0.0000722     |
| 100 %          |             | - 20       | 27,924,879,460 | 14,390          | 0.0000515     |
| 100 %          |             | - 10       | 27,924,898,755 | 33,685          | 0.0001206     |
| 100 %          |             | 0          | 27,924,881,215 | 16,145          | 0.0000578     |
| 100 %          |             | + 10       | 27,924,881,035 | 15,965          | 0.0000572     |
| 100 %          |             | + 30       | 27,924,906,310 | 41,240          | 0.0001477     |
| 100 %          |             | + 40       | 27,924,887,520 | 22,450          | 0.0000804     |
| 100 %          |             | + 50       | 27,924,882,755 | 17,685          | 0.0000633     |
| BATT. ENDPOINT |             | + 20       | 27,924,887,080 | 22,010          | 0.0000788     |

**Table 7-43. Frequency Stability Data (n261)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 176 of 196                   |

## Frequency Stability Measurements (Band n261)

§2.1055

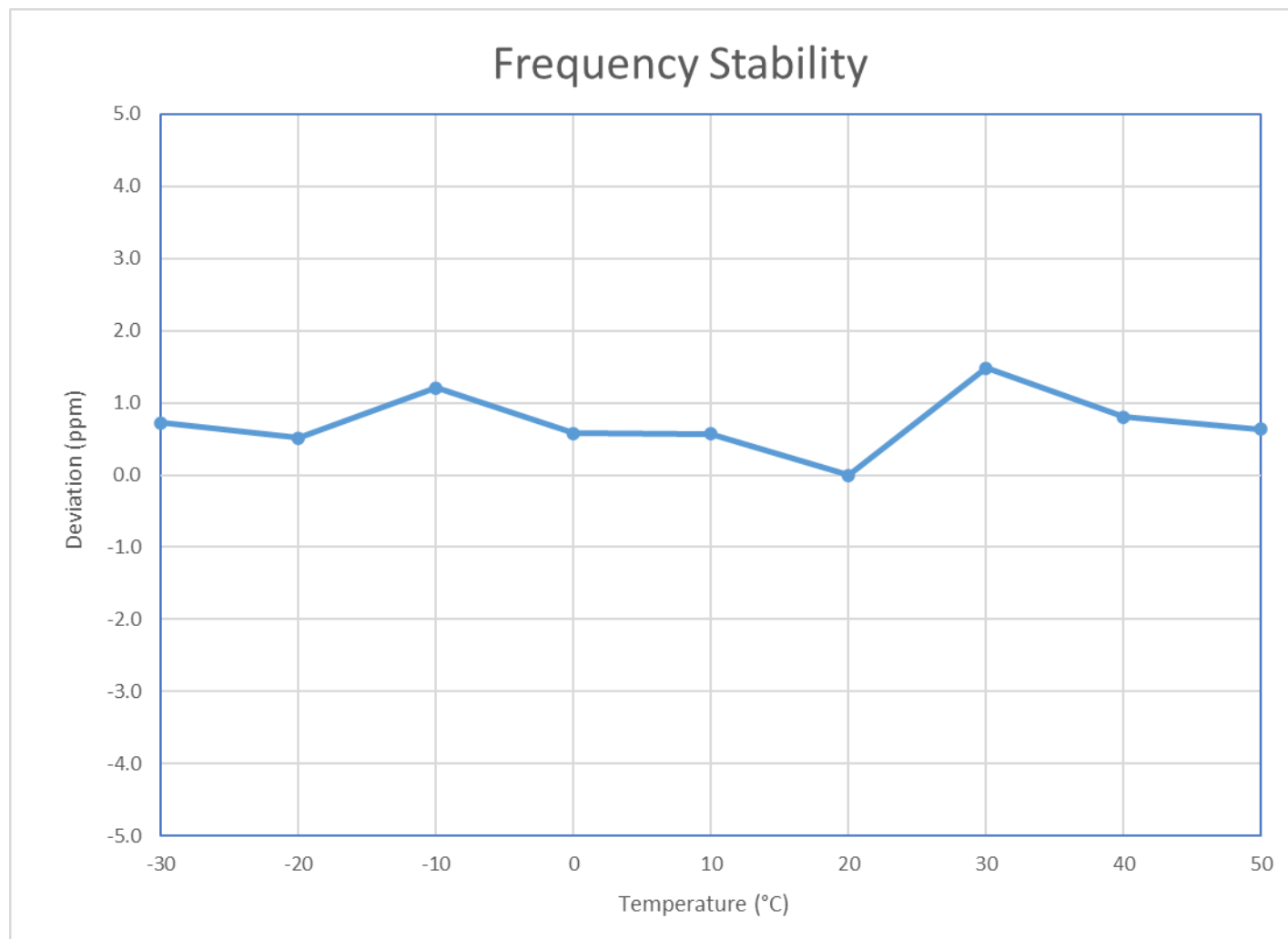


**Table 7-44. Frequency Stability Graph (n261)**

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 177 of 196                          |

## Frequency Stability Measurements (Band n260)

§2.1055

OPERATING FREQUENCY: 38,499,960,000 Hz  
CHANNEL: 2254165  
REFERENCE VOLTAGE: 4.464V VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 4.464V      | + 20 (Ref) | 38,500,608,515 | 0               | 0.0000000     |
| 100 %          |             | - 30       | 38,500,608,695 | 180             | 0.0000005     |
| 100 %          |             | - 20       | 38,500,648,080 | 39,565          | 0.0001028     |
| 100 %          |             | - 10       | 38,500,602,390 | -6,125          | -0.0000159    |
| 100 %          |             | 0          | 38,500,599,220 | -9,295          | -0.0000241    |
| 100 %          |             | + 10       | 38,500,595,970 | -12,545         | -0.0000326    |
| 100 %          |             | + 30       | 38,500,601,235 | -7,280          | -0.0000189    |
| 100 %          |             | + 40       | 38,500,602,170 | -6,345          | -0.0000165    |
| 100 %          |             | + 50       | 38,500,595,520 | -12,995         | -0.0000338    |
| BATT. ENDPOINT |             | + 20       | 38,500,617,260 | 8,745           | 0.0000227     |

**Table 7-45. Frequency Stability Data (n260)**

### Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 178 of 196                   |

## Frequency Stability Measurements (Band n260)

§2.1055

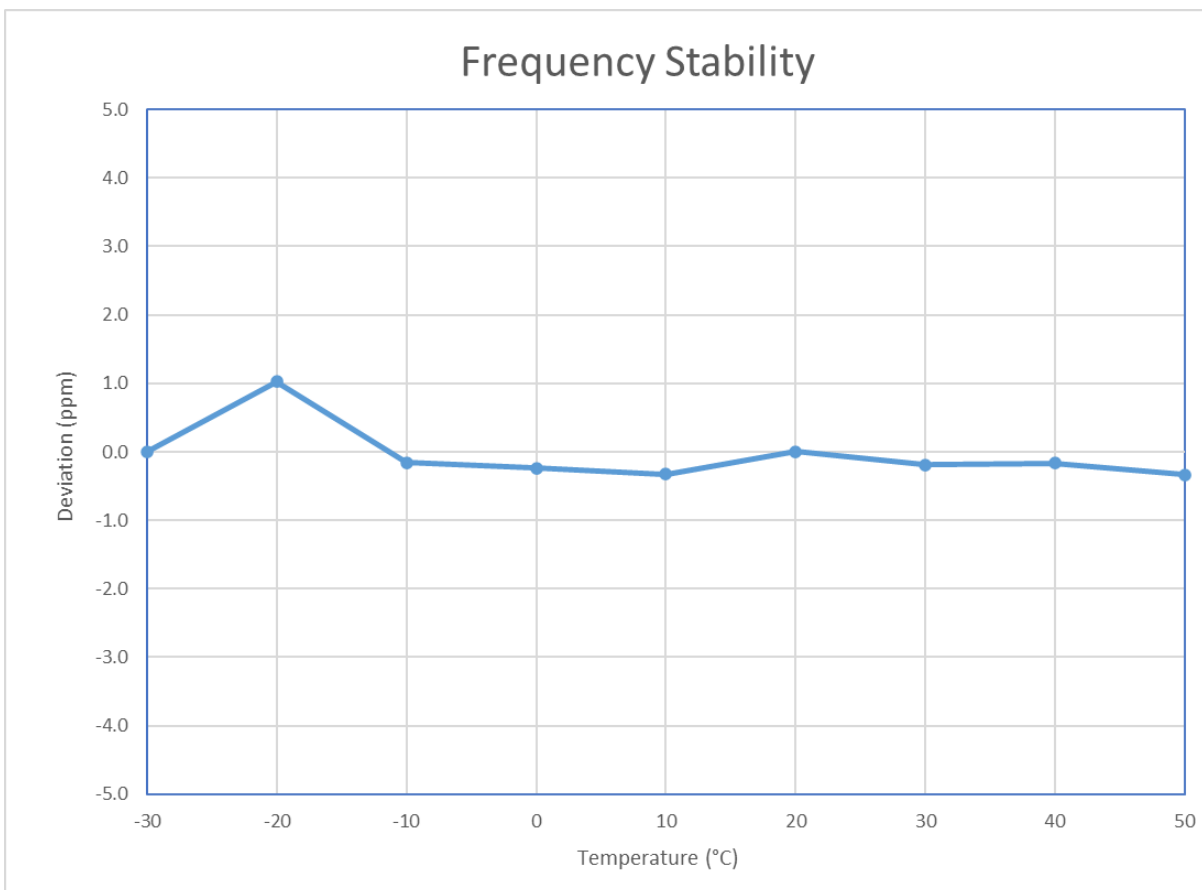


**Table 7-46. Frequency Stability Graph (n260)**

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 179 of 196                          |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948U** complies with all the requirements of Part 30.

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 180 of 196                          |

## APPENDIX A – VDI MIXER VERIFICATION CERTIFICATE



**Virginia Diodes, Inc**  
979 2nd St. SE  
Suite 309  
Charlottesville, VA 22902  
Phone: 434-297-3257  
Fax: 434-297-3258

### Certificate of Conformance

To: Element Materials Technology Washington DC, LLC  
7185 Oakland Mills Rd.  
Columbia, MD 21046  
United States

From: Virginia Diodes, Inc  
979 2nd St. SE  
Suite 309  
Charlottesville, VA 22902

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Packing List No:</b> 250293  | <b>Today's Date:</b> 01/29/2025 |
| <b>Shipping Date:</b> 1/29/2025 | <b>PO Number:</b> US37101951PO  |

| <u>Quantity Shipped</u> | <u>Unit</u> | <u>Description</u>                                                     | <u>Order-Job Number</u> |
|-------------------------|-------------|------------------------------------------------------------------------|-------------------------|
| 1                       | EA          | RETEST - WR19.0SAX-M-M4 -<br>WR19SAX (40GHz - 60GHz) / S/N: SAX 679    | 240638-01               |
| 1                       | EA          | RETEST - WR12.0SAX-M-M6 -<br>WR12SAX (60GHz - 90GHz) / S/N: SAX 680    | 240638-02               |
| 1                       | EA          | RETEST - WR8.0SAX-M-M9 -<br>WR8.0SAX (90GHz - 140GHz) / S/N: SAX 681   | 240638-03               |
| 1                       | EA          | RETEST - WR5.1SAX-M-M18 -<br>WR5.1SAX (140GHz - 220GHz) / S/N: SAX 682 | 240638-04               |

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

  
\_\_\_\_\_  
Authorized Signature  
Virginia Diodes, Inc

BW

|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 181 of 196                          |

## APPENDIX B – TEST SCOPE ACCREDITATION



### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC  
(formerly PCTEST)  
7185 Oakland Mills Road  
Columbia, MD 21046  
Zach Keyser Phone: 410 290 6652

### ELECTRICAL

Valid To: May 31, 2026

Certificate Number: 2041.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the one satellite laboratory locations listed below*, to perform the following Electromagnetic Compatibility, SAR, HAC, Telecommunications, OTA, RF, and Conformance and Protocol testing of wireless devices:

#### Test Technology:

#### Emissions

Radiated and Conducted

#### Test Method(s):

CFR 47, FCC Part 15B (using ANSI C63.4:2014);  
CFR 47, FCC Part 18 (using MP-5:1986);  
CFR 47, FCC Parts 15/C/E (without DFS)/F/G/H  
(using ANSI C63.10:2013);  
CFR 47, FCC Part 15E (with DFS)  
(using FCC KDB 905462 D02 (v02));  
CFR 47, FCC Part 15D (using ANSI C63.17:2013);  
ANSI C63.10:2020; KDB 987594;  
ETSI TS 134 124 Universal Mobile Telecommunications System  
(UMTS); (3GPP TS 34.124); (3GPP TS38.124 NR;  
Electromagnetic Compatibility (EMC) Requirements for Mobile  
Terminals and Ancillary Equipment);  
ETSI TS 136 124 LTE; Evolved Universal Terrestrial Radio Access  
(E-UTRA); (3GPP TS 36.124);  
ETSI TS 151 010-1 Digital Cellular Telecommunications System  
(Phase 2+) (GSM);  
3GPP TS 51.010-1, Section 12 (Conducted and Radiated Spurious  
Emissions); EN55011; EN 55032; CNS 13438 (up to 6 GHz);  
AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5;  
ICES-003;  
KS C 9811; KS C 9832;  
VCCI V-3(2016.11);  
VCCI V-3 (2015.04); VCCI 32-1: VCCI-CISPR 32

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 1 of 9

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 182 of 196                   |

**Test Technology:**

**Test Method(s):**

Transmitter/Receiver

RSS-111; RSS-112; RSS-117; RSS-119; RSS-123; RSS-125;  
RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134;  
RSS-135; RSS-137; RSS-139; RSS-140; RSS-141; RSS-142;  
RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194;  
RSS-195; RSS-196; RSS-197; RSS-198; RSS-199; RSS-210;  
RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222;  
RSS-236; RSS-238; RSS-243; RSS-244; RSS-246; RSS-247;  
RSS-248; RSS-251; RSS-252; RSS-287; RSS-288; RSS-310;  
RSS-Gen

SAR/RF Exposure

IEEE 1528-2013; RSS-102;  
EN 50360-2017; EN 62209-1:2016; EN 62209-2:2010/A1:2019;  
IEC 62209-1 2<sup>nd</sup> Edition 2016; IEC 62209-2 2010;  
IEC PAS 63083-2017; EN 50566-2017; IEC 62209-2 AMD 1;  
Australian Communications Authority Radio Communications  
(Electromagnetic Radiation – Human Exposure) Standard 2014;  
ARPANSA RPS S-1(Rev.1):2021; Australia Radiocommunications  
Equipment (General) Rules 2021;  
FCC KDB 447498 D01, D02, D03 and D04;  
FCC KDB 616217 D04;  
FCC KDB 643646 D01;  
FCC KDB 865664 D01 and D02;  
FCC KDB 941225 D01, D05, D05A, D06, and D07;  
EN 50401:2017; EN 50385:2017; IEC 62311:2008;  
IEC 62479:2010; EN 62479:2010; EN 50663:2017;  
EN 62311:2007; EN 62232:2017; IEC 62232:2017;  
IEEE C95.1-1992; IEEE C95.1-2005; IEEE C95.1: 2019;  
IEEE C95.3-2002; IEEE C95.3-2021; IEC/IEEE 63195-1:2022;  
RSS-102.SAR.MEAS; RSS-102.NS.MEAS; RSS-102.IPD.MEAS;  
SPR-003;  
SPR-002; SPR-001; SPR-004; SPR-APD;  
IEC TR 62630:2010; IEEE C95.3.1:2010; IEC TR 63170:2018;  
AS/NZS 2772.2:2016; EN 62209-3: 2019; IEC 62209-3:2019;  
ICNIRP (100kHz – 300 GHz):2020;  
IEC 62311:2019; EN 62311:2020; IEC/IEEE 62209-1528:2020;  
EN IEC/IEEE 62209-1528; IEC PAS 63184:2021;  
RRA Public Notification 2018-18, December 7, 2018  
KS C 3370-1, KS C 3370-2

Hearing Aid Compatibility

ANSI C63.19:2019;  
CTIA Test Plan for Hearing Aid Compatibility v.3.1.1 (2017);  
RSS-HAC; ANSI/TIA-5050-2018

United States Radio

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95,  
96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E,  
ANSI C63.26:2015)

(A2LA Cert. No. 2041.01) Revised 07/16/2024

 Page 2 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 183 of 196                   |

**Test Technology:**

European Radio

Taiwan Radio

Korean Radio

Australia/New Zealand Radio

Vietnam Radio

**RF, Protocol, and RRM Conformance**  
5G NR

**Test Method(s):**

ETSI EN 302 065-1; ETSI EN 302 065-2; ETSI EN 302 065-3;  
ETSI EN 302 065-4; ETSI EN 302 291-1; ETSI EN 302 291-2;  
ETSI EN 302 502; ETSI EN 302 510-1; ETSI EN 302 510-2;  
ETSI EN 302 537; ETSI EN 301 511; ETSI EN 301 839;  
ETSI EN 301 893; ETSI EN 301 908-1;  
ETSI EN 301 908-13; ETSI EN 300 220-2;  
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;  
ETSI EN 300 220-4; ETSI EN 300 328; ETSI EN 300 328;  
ETSI EN 300 330; ETSI EN 300 440; ETSI EN 300 440-2;  
ETSI EN 303 687

LP0002 (2020); DGT LP0002

Regulations on Radio Equipment  
(MSIT Ordinance MSIT No. 86, Jan. 4, 2022);  
Unlicensed Radio Equipment Established Without Notice  
(MSIT Public Notification 2023-18, Jun 20, 2023);  
Technical Requirements for the Human Protection against  
Electromagnetic Waves  
(MSIT Public Notification 2019-4, January 16, 2019);  
Equipment to be Subject of the Test Procedure for Electromagnetic  
Field Strength and Specific Absorption Rate  
(RRA Public Notification 2023-12, Jun 30, 2023);  
Technical Requirements for Radio Equipment for  
Telecommunication Services  
(RRA Public Notification 2022-15 July 29, 2022);  
Technical Requirements for Measurement and Test Procedure of  
Specific Absorption Rate  
(RRA Public Notification 2018-18, Dec 7, 2018);  
Technical Requirements for Measurement of Electromagnetic Field  
Strength (RRA Public Notification 2023-11, Jun 30, 2023);  
KS X 3123; KS X 3142; KS X 3270; KS X 3271

AS/NZS 4268:2017

QCVN 127 (2021): BTTTT;  
QCVN 129 (2021): BTTTT

3GPP TS 38.508-1; 3GPP TS 38.508-2; 3GPP TS 38.521-1;  
3GPP TS 38.521-2; 3GPP TS 38.521-3; 3GPP TS 38.521-4;  
3GPP TS 38.522; 3GPP TS 38.523-1; 3GPP TS 38.523-2;  
3GPP TS 38.523-3; 3GPP TS 38.533; 3GPP TS 34.229-5;  
VZW 5G NR FR2 RFOTA;  
VZW 5G Protocol Pre-Conformance (TS 38.523-1);  
VZW 5G NR FR1 Supp RF;  
VZW 5G NR RF Pre Conformance (TS 38.521-3);  
VZW 5G NR Radio Resource Management (RRM)

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 3 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 184 of 196                   |

**Test Technology:**

5G NR (*continued*)

LTE

WCDMA (UTRA)

SVLTE / Multimode

**Test Method(s):**

Pre-Conformance (TS 38.533); 5G NR FR1 Performance/DEMOM  
Pre Conformance (TS 38.521-4); VZW 5G NR SA Data Retry;  
VZW 5G NR SA Voice Services Fallback;  
VZW 5G NR SA Voice, Video and Messaging;  
VZW 5G NR SA System Selection; VZW 5G WEA TP;  
VZW 5G Test Cases -LTE Voice over WiFi;  
VZW 5G Iconography; VZW 5G NR NSA SA THERMAL LC TP;  
VZW 5G Supplemental UICC; 5GNRAPPLAYERDATATHRU;  
VZW 5G E911; VZW 5G NR SA SMS; 5GSASUPSIGCONF;  
VZW 5G Test Cases-PCO;  
AT&T 10776 Test Plans(5G/4G/3G/2G);  
T-Mobile Protocol\_5G SA Emergency EPS Fall back;  
T-Mobile Protocol\_UC\_Icon; T-Mobile Protocol\_5G\_SA

3GPP TS 36.521-1; 3GPP TS 36.521-3; 3GPP TS 36.523-1;  
3GPP 37.571-1; 3GPP 37.571-2; 3GPP TS 34.229-1;  
ETSI EN 301 908-13 Version 13.1.1 (2019-11);  
3GPP Carrier Aggregation;  
PTCRB NAPRD.03; PTCRB PPMD;  
PTCRB Cat-M (per RFT132 eMTC);  
PVG.09 LTE Data Throughput & TR 37.901 Data Throughput  
Performance;  
PVG.04 PTCRB Radiated Spurious Emissions;  
Global Certification Forum (GCF-CC) Certification / LTE Field  
Test (TS.11); 3GPP Cat-NB & Cat-M;  
Lab Conformance; AT&T LTE Conformance;  
AT&T IoT Accelerator Conformance, 19263;  
VZW Lab Conformance; VZW Supl RF;  
VZW FR2 Supplementary RF; VZW FR1 Supplementary RF;  
VZW Supl Signaling Conformance;  
VZW Supl RRM;  
VZW LTE LBS Performance;  
VZW Safe for Network (SFN), VZW Phase 1, VZW Open  
Development and Field Interoperability Testing (FIT) <sup>3</sup>;  
VZW Network Extender; VZW PCO; VZW Data Retry;  
VZW Data Throughput; VZW SMS; VZW AT Commands;  
VZW CMAS; VZW eMBMS; VZW APN; VZW Cat-M VoLTE;  
Live Network Extender and Android Test Plan;  
USCC Lab Conformance;  
KDDI LTE Device Testing; SoftBank LTE Testing; GSMA TS.35;  
T-Mobile Protocol\_IR94; T-Mobile Protocol\_RTT

3GPP TS 34.121-1; 3GPP TS 34.123-1;  
SoftBank Mobile WCDMA Testing

E911 Data Call Processing;  
Stress Testing; RSSI for MM Devices;  
LTE LBS Performance; VZW Multimode Supl Signaling;  
VZW Multimode SMS; VZW Multimode Data Retry

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 4 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 185 of 196                   |

**Test Technology:**

**Test Method(s):**

VoLTE

IMS VoIP; Rich Communication Services (RCS);  
IMS Registration and Retry; ePDG Live Network;  
E911 for VoLTE; VZW hVoLTE; VZW VoIP and VT  
Performance; VZW Interband RRM and Protocol

Carrier Aggregation

VZW Carrier Aggregation Supplementary RF;  
VZW Carrier Aggregation Data Throughout

UICC

USIM/USAT/CSIM/ISIM Interaction Test Plan  
(LTE/WCDMA/GSM/CDMA/MM);  
3GPP TS 31.121; 3GPP TS 31.124;  
ETSI TS 102 230;  
SIM Application Interaction Test Plan;  
UICC USIM ISIM Electrical;  
UICC USIM ISIM Protocol  
(LTE/WCDMA/GSM/CDMA);  
SWP/HCI ETSI TS 102 694-1; ETSI TS 102 695-1

CBRS - OnGo/WinnForum

OnGo Alliance Certification Test Plan;  
WinnForum Conformance and Performance Test Technical  
Specification, WINNF-TS-0122

ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC  
(formerly PCTEST)  
7195 Oakland Mills Rd, Suite A  
Columbia, MD

**Test Technology:**

**Test Method(s):**

*Emissions*

Radiated and Conducted

CFR 47, FCC Part 15B (using ANSI C63.4:2014);  
CFR 47, FCC Part 18 (using MP-5:1986);  
CFR 47, FCC Parts 15/C/E (without DFS)/F/G/H  
(using ANSI C63.10:2013)  
CFR 47, FCC Part 15E (with DFS)  
(using FCC KDB 905462 D02 (v02));  
CFR 47, FCC Part 15D (using ANSI C63.17:2013);  
ANSI C63.10:2020; KDB 987594;  
ETSI TS 134 124 Universal Mobile Telecommunications System  
(UMTS); (3GPP TS 34.124);  
ETSI TS 136 124 LTE;  
Evolved Universal Terrestrial Radio Access (E-UTRA);  
(3GPP TS 36.124); (3GPP TS38.124 NR; Electromagnetic  
Compatibility (EMC) Requirements for Mobile Terminals and  
Ancillary Equipment);  
ETSI TS 151 010-1 Digital Cellular Telecommunications System  
(Phase 2+) (GSM); 3GPP TS 51.010-1, Section 12 (Conducted  
and Radiated Spurious Emissions); EN55011; EN 55032

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 5 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 186 of 196                   |

| <u>Test Technology:</u>                 | <u>Test Method(s):</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiated and Conducted ( <i>cont.</i> ) | CNS 13438 (up to 6 GHz); AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5; ICES-003; KS C 9811; KS C 9832; VCCI V-3(2016.11); VCCI V-3 (2015.04); VCCI 32-1; VCCI-CISPR 32                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Transmitter/Receiver                    | RSS-111; RSS-112; RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-198; RSS-199; RSS-210; RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222; RSS-236; RSS-238; RSS-243; RSS-244; RSS-246; RSS-247; RSS-248; RSS-251; RSS-252; RSS-287; RSS-288; RSS-310; RSS-Gen; No IS                                                                                                                                                |
| Hearing Aid Compatibility               | ANSI C63.19:2019; CTIA Test Plan for Hearing Aid Compatibility v.3.1.1 (2017); RSS-HAC; ANSI/TIA-5050-2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| United States Radio                     | 47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95, 96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E, ANSI C63.26:2015)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| European Radio                          | ETSI EN 302 065-1; ETSI EN 302 065-2; ETSI EN 302 065-3; ETSI EN 302 065-4; ETSI EN 302 291-1; ETSI EN 302 291-2; ETSI EN 302 502; ETSI EN 302 510-1; ETSI EN 302 510-2; ETSI EN 302 537; ETSI EN 301 511; ETSI EN 301 839; ETSI EN 301 893; ETSI EN 301 893; ETSI EN 301 908-1; ETSI EN 301 908-13; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 328; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 300 440; ETSI EN 300 440-2                                                                                                                                                                              |
| Taiwan Radio                            | LP0002 (2020); DGT LP0002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Korean Radio                            | Regulations on Radio Equipment (MSIT Ordinance MSIT No. 86, Jan. 4, 2022); Unlicensed Radio Equipment Established Without Notice (MSIT Public Notification 2023-18, Jun 20, 2023); Technical Requirements for the Human Protection against Electromagnetic Waves (MSIT Public Notification 2019-4, January 16, 2019); Equipment to be Subject of the Test Procedure for Electromagnetic Field Strength and Specific Absorption Rate (RRA Public Notification 2023-12, Jun 30, 2023); Technical Requirements for Radio Equipment for Telecommunication Services (RRA Public Notification 2022-13 Jun 28, 2022) |

(A2LA Cert. No. 2041.01) Revised 07/16/2024

 Page 6 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 187 of 196                   |

| <u>Test Technology:</u>               | <u>Test Method(s):</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Korean Radio (cont.)                  | Technical Requirements for Measurement and Test Procedure of Specific Absorption Rate (RRA Public Notification 2018-18, Dec 7, 2018);<br>Technical Requirements for Measurement of Electromagnetic Field Strength (RRA Public Notification 2023-11, Jun 30, 2023);<br>KS X 3123; KS X 3142; KS X 3270; KS X 3271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Australia/New Zealand Radio           | AS/NZS 4268:2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OTA                                   | CTIA Test Plan for Wireless Device Over-the-Air Performance <sup>1</sup><br>CTIA 01.20 Test Methodology, SISO, Anechoic Chamber;<br>CTIA 01.40 Test Methodology, MIMO, Static Channel Model, Multi-Probe Anechoic Chamber;<br>PTCRB NAPRD03; PTCRB PPMID;<br>VZW OTA Radiated Performance for CDMA & LTE Multimode Devices;<br>VZW LTE Over the Air Radiated Performance Test Plan<br>VZW Location Determination Test Plan;<br>VZW LTE-LBS Performance Test Plan;<br>T-Mobile Radiated Performance TRD;<br>AT&T 13340 OTA;<br>AT&T IoT Accelerator;<br>USCC CDMA Over The Air Radiated Test Plan;<br>USCC LTE Over The Air Radiated Test Plan;<br>CTIA Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices (Wi-Fi Alliance);<br>GSMA TS.24 Operator Acceptance Values for Device Antenna Performance;<br>3GPP TS 34.114 Technical Specification UE/MS OTA Antenna Performance;<br>3GPP TS 37.544 Technical Specification UTRA & E-UTRA UE OTA Antenna Performance; QCVN 117:2023/BTTTT |
| <i>Wired and Wireless Conformance</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CTIA IoT Security                     | CTIA Cybersecurity Certification Test Plan for IoT Devices*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CBRS - OnGo/WinnForum                 | OnGo Alliance Certification Test Plan;<br>WinnForum Conformance and Performance Test Technical Specification, WINNF-TS-0122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Military and Airborne Equipment       | MIL-STD-461G, RE102; AFI91-208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

<sup>1</sup> CTIA 01.01 Test Scope Requirements and Applicability is used in support of the CTIA Test Plan for Wireless Device Over-the-Air Performance<sup>3</sup> and should not be considered its own test method.

(A2LA Cert. No. 2041.01) Revised 07/16/2024

 Page 7 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 188 of 196                   |

\*Accreditation to the requirements of the CTIA Certification Test Plan does not imply authorization by the CTIA Certification program. Please see the CTIA website <https://ctiacertification.org/test-labs/> for a listing of Authorized Test Labs (ATLs).

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.2:

| Rule Subpart/Technology                                                                              | Test Method                                            | Maximum Frequency (MHz) |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
| <u>Unintentional Radiators</u>                                                                       |                                                        |                         |
| Part 15B                                                                                             | ANSI C63.4:2014                                        | 40000                   |
| <u>Industrial, Scientific, and Medical Equipment</u>                                                 |                                                        |                         |
| Part 18                                                                                              | FCC MP-5 (February 1986)                               | 330000                  |
| <u>Intentional Radiators</u>                                                                         |                                                        |                         |
| Part 15C                                                                                             | ANSI C63.10:2013                                       | 330000                  |
| <u>Unlicensed Personal Communication Systems Devices</u>                                             |                                                        |                         |
| Part 15D                                                                                             | ANSI C63.17:2013                                       | 20000                   |
| <u>U-NII without DFS Intentional Radiators</u>                                                       |                                                        |                         |
| Part 15E                                                                                             | ANSI C63.10:2013                                       | 40000                   |
| <u>U-NII with DFS Intentional Radiators</u>                                                          |                                                        |                         |
| Part 15E                                                                                             | FCC KDB 905462 D02 (v02)                               | 40000                   |
| <u>UWB Intentional Radiators</u>                                                                     |                                                        |                         |
| Part 15F                                                                                             | ANSI C63.10:2013                                       | 200000                  |
| <u>BPL Intentional Radiators</u>                                                                     |                                                        |                         |
| Part 15G                                                                                             | ANSI C63.10:2013                                       | 40000                   |
| <u>White Space Device Intentional Radiators</u>                                                      |                                                        |                         |
| Part 15H                                                                                             | ANSI C63.10:2013                                       | 40000                   |
| <u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u>                             |                                                        |                         |
| Parts 22 (cellular), 24, 25 (below 3 GHz), and 27                                                    | ANSI/TIA-603-E;<br>TIA-102.CAAA-E;<br>ANSI C63.26:2015 | 330000                  |
| <u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u>                          |                                                        |                         |
| Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz) | ANSI/TIA-603-E;<br>TIA-102.CAAA-E;<br>ANSI C63.26:2015 | 330000                  |

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 8 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 189 of 196                   |

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.<sup>2</sup>:

| Rule Subpart/Technology                                                                                                                                       | Test Method                                            | Maximum Frequency (MHz) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|
| <u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u><br>Part 96                                                                    | ANSI/TIA-603-E;<br>TIA-102.CAAA-E;<br>ANSI C63.26:2015 | 330000                  |
| <u>Maritime and Aviation Radio Services</u><br>Parts 80 and 87                                                                                                | ANSI/TIA-603-E;<br>ANSI C63.26:2015                    | 330000                  |
| <u>Microwave and Millimeter Bands Radio Services</u><br>Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101                       | ANSI/TIA-603-E;<br>TIA-102.CAAA-E;<br>ANSI C63.26:2015 | 330000                  |
| <u>Broadcast Radio Services</u><br>Parts 73 and 74 (below 3 GHz)                                                                                              | ANSI/TIA-603-E;<br>TIA-102.CAAA-E;<br>ANSI C63.26:2015 | 330000                  |
| <u>RF Exposure</u><br>Devices Subject to SAR Requirements                                                                                                     | IEEE Std 1528:2013                                     | 6000                    |
| <u>Hearing Aid Compatibility</u><br>Part 20<br>(HAC for Commercial Mobile Services)                                                                           | ANSI C63.19:2019<br>(incorporation of reference)       | 6000                    |
| <u>Signal Boosters</u><br>Part 20<br>(Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters)<br>Section 90.219 | ANSI C63.26:2015                                       | 330000                  |

<sup>2</sup>Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.

(A2LA Cert. No. 2041.01) Revised 07/16/2024



Page 9 of 9

|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 190 of 196                   |



# Accredited Laboratory

A2LA has accredited

## ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC

Columbia, MD

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13<sup>th</sup> day of June 2024.



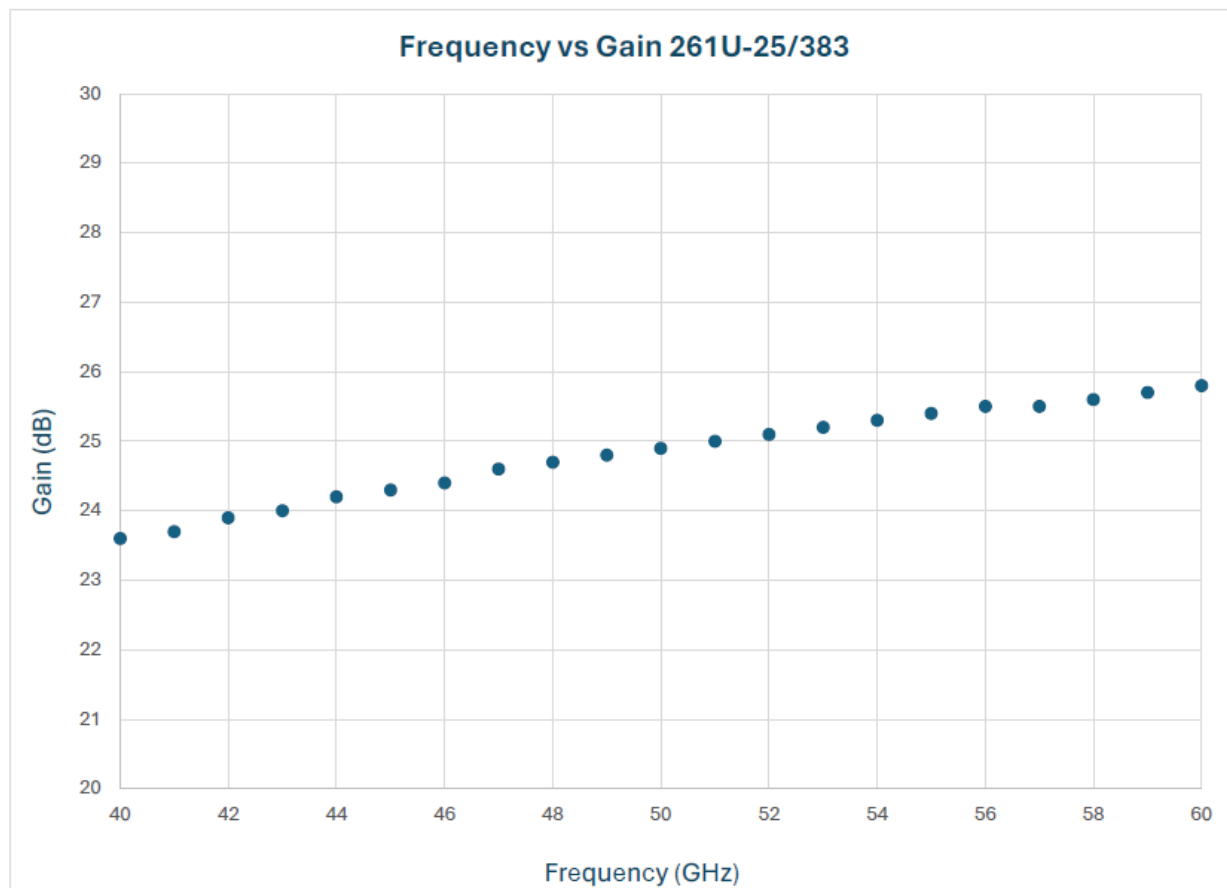
Mr. Trace McInturf, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2041.01  
Valid to May 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

|                                         |                                        |                               |                                   |
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| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 191 of 196                   |

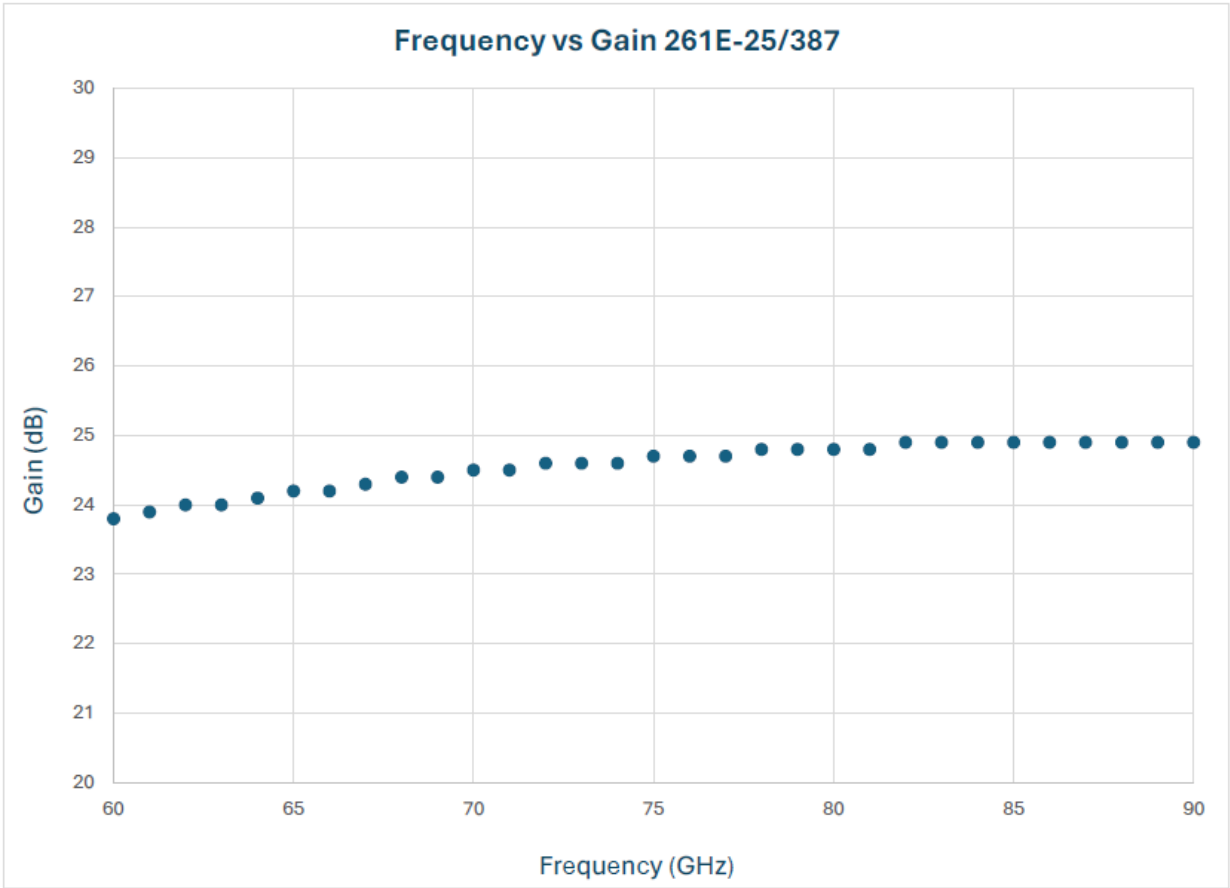
## APPENDIX C – HORN ANTENNA GAIN CURVES

### MI\_WAVE 261U-25/383 Horn Antenna Gain (40 – 60GHz)



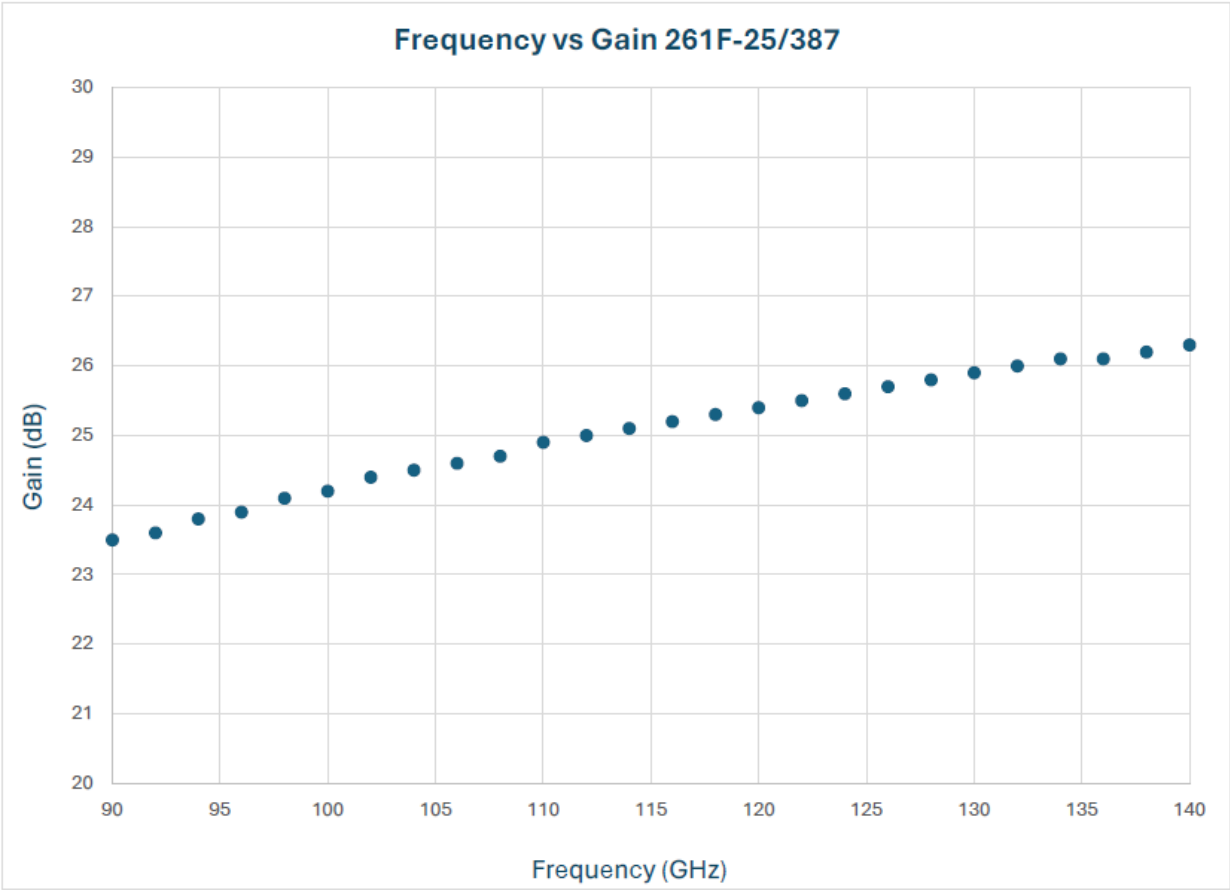
|                                                |                                               |                                      |                                          |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508250078-11.A3L | <b>Test Dates:</b><br>09/06/2025 – 10/27/2025 | <b>EUT Type:</b><br>Portable Handset | Page 192 of 196                          |

MI-WAVE 261E-25/387 Horn Antenna Gain (60 – 90GHz)



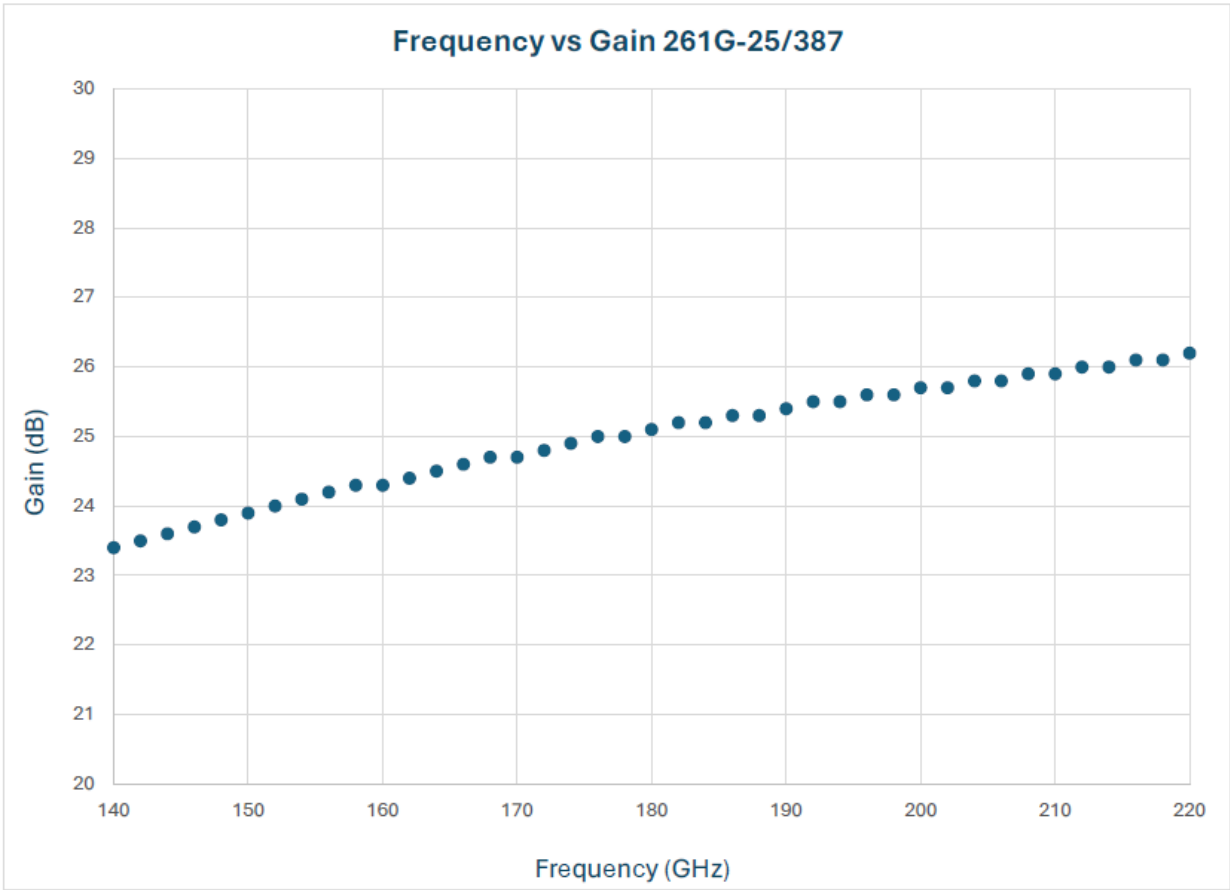
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|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 193 of 196                   |

MI-WAVE 261F-25/387 Horn Antenna Gain (90 – 140GHz)



|                                         |                                        |                               |                                   |
|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 194 of 196                   |

**MI-WAVE 261G-25/387 Horn Antenna Gain (140 – 220GHz)**



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|-----------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948U                      | MEASUREMENT REPORT<br>(CERTIFICATION)  |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508250078-11.A3L | Test Dates:<br>09/06/2025 – 10/27/2025 | EUT Type:<br>Portable Handset | Page 195 of 196                   |

**- END OF TEST REPORT -**

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|------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948U                      | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                      | <b>Approved by:</b><br>Technical Manager |
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