

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**Applicant:** Murata Electronics North America  
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**Manufacturer:** Murata Manufacturing Co.  
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Japan

**Product Name:** Type2GD

**Brand Name:** Murata

**Model No.:** LBAD0ZZ2GD

**ISED PMN:** 2GD

**Report Number:** TERF2408002531ER

**FCC ID** HSW-TY2GD

**IC:** 4492A-TY2GD

**Date of EUT Received:** August 27, 2024

**Date of Test:** August 28, 2024 ~ October 16, 2024

**Issue Date:** November 25, 2024

Approved By   
**Marcus Tseng**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27C & 90S and ISED RSS-Gen, 130, 132, 133, 139.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description                                  | Issue Date    | Revised By | Remark |
|------------------|----------|----------------------------------------------|---------------|------------|--------|
| TERF2408002531ER | 00       | Original                                     | Nov. 13, 2024 | Candice Li |        |
| TERF2408002531ER | 01       | Add the description for Section 4.1, item 3. | Nov. 25, 2024 | Candice Li |        |
|                  |          |                                              |               |            |        |
|                  |          |                                              |               |            |        |
|                  |          |                                              |               |            |        |
|                  |          |                                              |               |            |        |
|                  |          |                                              |               |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

|                                 |                           |
|---------------------------------|---------------------------|
| Product Name:                   | Type2GD                   |
| Brand Name:                     | Murata                    |
| Model No.:                      | LBAD0ZZ2GD                |
| Hardware Version:               | ES1                       |
| Firmware Version:               | BF_CORE_02_01_00_02_42951 |
| EUT Series No.:                 | 358419510001498           |
| Power Supply:                   | 3.6 Vdc                   |
| Test Software<br>(Name/Version) | Connect with callbox      |

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## 1.2 Frequency Range

| CAT-M1 Band 2  |                           |   |        |
|----------------|---------------------------|---|--------|
| BW (MHz)       | Operation Frequency (MHz) |   |        |
| 1.4            | 1850.7                    | - | 1909.3 |
| 3              | 1851.5                    | - | 1908.5 |
| 5              | 1852.5                    | - | 1907.5 |
| 10             | 1855.0                    | - | 1905.0 |
| 15             | 1857.5                    | - | 1902.5 |
| 20             | 1860.0                    | - | 1900.0 |
| CAT-M1 Band 4  |                           |   |        |
| BW (MHz)       | Operation Frequency (MHz) |   |        |
| 1.4            | 1710.7                    | - | 1754.3 |
| 3              | 1711.5                    | - | 1753.5 |
| 5              | 1712.5                    | - | 1752.5 |
| 10             | 1715.0                    | - | 1750.0 |
| 15             | 1717.5                    | - | 1747.5 |
| 20             | 1720.0                    | - | 1745.0 |
| CAT-M1 Band 5  |                           |   |        |
| BW (MHz)       | Operation Frequency (MHz) |   |        |
| 1.4            | 824.7                     | - | 848.3  |
| 3              | 825.5                     | - | 847.5  |
| 5              | 826.5                     | - | 846.5  |
| 10             | 829.0                     | - | 844.0  |
| CAT-M1 Band 12 |                           |   |        |
| BW (MHz)       | Operation Frequency (MHz) |   |        |
| 1.4            | 699.7                     | - | 715.3  |
| 3              | 700.5                     | - | 714.5  |
| 5              | 701.5                     | - | 713.5  |
| 10             | 704.0                     | - | 711.0  |

| CAT-M1 Band 13         |                           |   |        |
|------------------------|---------------------------|---|--------|
| BW (MHz)               | Operation Frequency (MHz) |   |        |
| 5                      | 779.5                     | - | 784.5  |
| 10                     | 782.0                     |   |        |
| CAT-M1 Band 17         |                           |   |        |
| BW (MHz)               | Operation Frequency (MHz) |   |        |
| 5                      | 706.5                     | - | 713.5  |
| 10                     | 709.0                     | - | 711.0  |
| CAT-M1 Band 25         |                           |   |        |
| BW (MHz)               | Operation Frequency (MHz) |   |        |
| 1.4                    | 1850.7                    | - | 1914.3 |
| 3                      | 1851.5                    | - | 1913.5 |
| 5                      | 1852.5                    | - | 1912.5 |
| 10                     | 1855.0                    | - | 1910.0 |
| 15                     | 1857.5                    | - | 1907.5 |
| 20                     | 1860.0                    | - | 1905.0 |
| CAT-M1 Band 26 Part 90 |                           |   |        |
| BW (MHz)               | Operation Frequency (MHz) |   |        |
| 1.4                    | 814.7                     | - | 823.3  |
| 3                      | 815.5                     | - | 822.5  |
| 5                      | 816.5                     | - | 821.5  |
| 10                     | 819.0                     |   |        |
| CAT-M1 Band 26         |                           |   |        |
| BW (MHz)               | Operation Frequency (MHz) |   |        |
| 1.4                    | 824.7                     | - | 848.3  |
| 3                      | 825.5                     | - | 847.5  |
| 5                      | 826.5                     | - | 846.5  |
| 10                     | 829.0                     | - | 844.0  |
| 15                     | 831.5                     | - | 841.5  |

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| CAT-M1 Band 66 |                           |   |        |
|----------------|---------------------------|---|--------|
| BW (MHz)       | Operation Frequency (MHz) |   |        |
| 1.4            | 1710.7                    | - | 1779.3 |
| 3              | 1711.5                    | - | 1778.5 |
| 5              | 1712.5                    | - | 1777.5 |
| 10             | 1715.0                    | - | 1775.0 |
| 15             | 1717.5                    | - | 1772.5 |
| 20             | 1720.0                    | - | 1770.0 |

*Note: Operation frequency 814~824MHz is disabled in Canada.*

### 1.3 Antenna Designation

| Antenna Type                                                                                          | Part No.        | Antenna Model No. |
|-------------------------------------------------------------------------------------------------------|-----------------|-------------------|
| Omni-Directional                                                                                      | T6140XX-AGDPU-S | Ant0              |
| <b>Note:</b> Transmission frequencies in this test report are only available by the above antenna(s). |                 |                   |

| Type             | Modulation      | Frequency (MHz) | Peak Antenna Gain (dBi) |
|------------------|-----------------|-----------------|-------------------------|
|                  |                 |                 | Ant0                    |
| Omni-Directional | Band 2          | 1850 ~ 1910     | 2                       |
|                  | Band 4          | 1710 ~ 1755     | 2                       |
|                  | Band 5          | 824 ~ 849       | 2                       |
|                  | Band 12         | 699 ~ 716       | 2                       |
|                  | Band 13         | 777 ~ 787       | 2                       |
|                  | Band 17         | 704 ~ 716       | 2                       |
|                  | Band 25         | 1850 ~ 1915     | 2                       |
|                  | Band 26         | 824 ~ 849       | 2                       |
|                  | Band 26 Part 90 | 814 ~ 824       | 2                       |
|                  | Band 66         | 1710 ~ 1780     | 2                       |

**Note:** Antenna information is provided by the applicant.

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#### 1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
|-------------|-----|-----------|--------|------------|------------------|------|--------------|--------|------------------|
| 2           | 1.4 | 1850.7    | 1909.3 | QPSK       | 24.94            | EIRP | <b>0.312</b> | 1.0758 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.38            | EIRP | 0.274        | 1.0769 | 1M08D7W          |
| 2           | 3   | 1851.5    | 1908.5 | QPSK       | 24.69            | EIRP | 0.294        | 1.0758 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.23            | EIRP | 0.265        | 1.0780 | 1M08D7W          |
| 2           | 5   | 1852.5    | 1907.5 | QPSK       | 24.83            | EIRP | 0.304        | 1.0866 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.15            | EIRP | 0.327        | 1.0779 | 1M08D7W          |
| 2           | 10  | 1855.0    | 1905.0 | QPSK       | 24.81            | EIRP | 0.303        | 1.0861 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.13            | EIRP | 0.326        | 1.0857 | 1M09D7W          |
| 2           | 15  | 1857.5    | 1902.5 | QPSK       | 24.83            | EIRP | 0.304        | 1.082  | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.35            | EIRP | <b>0.343</b> | 1.081  | 1M08D7W          |
| 2           | 20  | 1860.0    | 1900.0 | QPSK       | 24.85            | EIRP | 0.305        | 1.084  | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.16            | EIRP | 0.328        | 1.087  | 1M09D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
| 4           | 1.4 | 1710.7    | 1754.3 | QPSK       | 25.06            | EIRP | <b>0.321</b> | 1.0774 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.68            | EIRP | 0.294        | 1.0772 | 1M08D7W          |
| 4           | 3   | 1711.5    | 1753.5 | QPSK       | 25.02            | EIRP | 0.318        | 1.0773 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.60            | EIRP | 0.288        | 1.0771 | 1M08D7W          |
| 4           | 5   | 1712.5    | 1752.5 | QPSK       | 24.92            | EIRP | 0.310        | 1.0859 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.38            | EIRP | 0.345        | 1.0800 | 1M08D7W          |
| 4           | 10  | 1715.0    | 1750.0 | QPSK       | 24.98            | EIRP | 0.315        | 1.0882 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.31            | EIRP | 0.340        | 1.0860 | 1M09D7W          |
| 4           | 15  | 1717.5    | 1747.5 | QPSK       | 25.05            | EIRP | 0.320        | 1.0859 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.41            | EIRP | <b>0.348</b> | 1.0842 | 1M08D7W          |
| 4           | 20  | 1720.0    | 1745.0 | QPSK       | 24.94            | EIRP | 0.312        | 1.0880 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.28            | EIRP | 0.337        | 1.0836 | 1M08D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
| 5           | 1.4 | 824.7     | 848.3  | QPSK       | 22.72            | ERP  | <b>0.187</b> | 1.0772 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.30            | ERP  | 0.170        | 1.0773 | 1M08D7W          |
| 5           | 3   | 825.5     | 847.5  | QPSK       | 22.43            | ERP  | 0.175        | 1.0751 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.07            | ERP  | 0.161        | 1.0756 | 1M08D7W          |
| 5           | 5   | 826.5     | 846.5  | QPSK       | 22.56            | ERP  | 0.180        | 1.0819 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.93            | ERP  | 0.196        | 1.0806 | 1M08D7W          |
| 5           | 10  | 829.0     | 844.0  | QPSK       | 22.56            | ERP  | 0.180        | 1.0808 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.97            | ERP  | <b>0.198</b> | 1.0865 | 1M09D7W          |

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| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
|-------------|-----|-----------|--------|------------|------------------|------|--------------|--------|------------------|
| 12          | 1.4 | 699.7     | 715.3  | QPSK       | 22.79            | ERP  | <b>0.190</b> | 1.0733 | 1M07G7D          |
|             |     |           |        | 16QAM      | 22.18            | ERP  | 0.165        | 1.0746 | 1M07D7W          |
| 12          | 3   | 700.5     | 714.5  | QPSK       | 22.68            | ERP  | 0.185        | 1.0756 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.10            | ERP  | 0.162        | 1.0758 | 1M08D7W          |
| 12          | 5   | 701.5     | 713.5  | QPSK       | 22.50            | ERP  | 0.178        | 1.0823 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.91            | ERP  | 0.195        | 1.0792 | 1M08D7W          |
| 12          | 10  | 704.0     | 711.0  | QPSK       | 22.53            | ERP  | 0.179        | 1.0866 | 1M09G7D          |
|             |     |           |        | 16QAM      | 23.02            | ERP  | <b>0.200</b> | 1.0846 | 1M08D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
| 13          | 5   | 779.5     | 784.5  | QPSK       | 22.62            | ERP  | 0.183        | 1.0848 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.98            | ERP  | <b>0.199</b> | 1.0806 | 1M08D7W          |
| 13          | 10  | 782.0     | 782.0  | QPSK       | 22.68            | ERP  | <b>0.185</b> | 1.0785 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.94            | ERP  | 0.197        | 1.0865 | 1M09D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
| 25          | 1.4 | 1850.7    | 1914.3 | QPSK       | 24.98            | EIRP | <b>0.315</b> | 1.0768 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.50            | EIRP | 0.282        | 1.0780 | 1M08D7W          |
| 25          | 3   | 1851.5    | 1913.5 | QPSK       | 24.93            | EIRP | 0.311        | 1.0772 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.24            | EIRP | 0.265        | 1.0779 | 1M08D7W          |
| 25          | 5   | 1852.5    | 1912.5 | QPSK       | 24.78            | EIRP | 0.301        | 1.0902 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.17            | EIRP | <b>0.329</b> | 1.0805 | 1M08D7W          |
| 25          | 10  | 1855.0    | 1910.0 | QPSK       | 24.77            | EIRP | 0.300        | 1.0802 | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.14            | EIRP | 0.327        | 1.0859 | 1M09D7W          |
| 25          | 15  | 1857.5    | 1907.5 | QPSK       | 24.84            | EIRP | 0.305        | 1.0890 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.16            | EIRP | 0.328        | 1.0848 | 1M08D7W          |
| 25          | 20  | 1860.0    | 1905.0 | QPSK       | 24.83            | EIRP | 0.304        | 1.0865 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.17            | EIRP | <b>0.329</b> | 1.0838 | 1M08D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | Conducted (dBm)  |      | (W)          | 99%    | Type of Emission |
| 26 Part     | 1.4 | 814.7     | 823.3  | QPSK       | 22.72            | ERP  | <b>0.187</b> | 1.0772 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.20            | ERP  | 0.166        | 1.0788 | 1M08D7W          |
| 26 Part     | 3   | 815.5     | 822.5  | QPSK       | 22.47            | ERP  | 0.177        | 1.0740 | 1M07G7D          |
|             |     |           |        | 16QAM      | 22.72            | ERP  | 0.187        | 1.0769 | 1M08D7W          |
| 26 Part     | 5   | 816.5     | 821.5  | QPSK       | 22.53            | ERP  | 0.179        | 1.0835 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.94            | ERP  | <b>0.197</b> | 1.0801 | 1M08D7W          |
| 26 Part     | 10  | 819.0     | 819.0  | QPSK       | 22.41            | ERP  | 0.174        | 1.0724 | 1M07G7D          |
|             |     |           |        | 16QAM      | 22.40            | ERP  | 0.174        | 1.0826 | 1M08D7W          |

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| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
|-------------|-----|-----------|--------|------------|------------------|------|--------------|--------|------------------|
| 26          | 1.4 | 824.7     | 848.3  | QPSK       | 22.80            | ERP  | <b>0.191</b> | 1.0791 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.33            | ERP  | 0.171        | 1.0747 | 1M07D7W          |
| 26          | 3   | 825.5     | 847.5  | QPSK       | 22.54            | ERP  | 0.179        | 1.0725 | 1M07G7D          |
|             |     |           |        | 16QAM      | 22.10            | ERP  | 0.162        | 1.0757 | 1M08D7W          |
| 26          | 5   | 826.5     | 846.5  | QPSK       | 22.63            | ERP  | 0.183        | 1.0872 | 1M09G7D          |
|             |     |           |        | 16QAM      | 22.94            | ERP  | 0.197        | 1.0798 | 1M08D7W          |
| 26          | 10  | 829.0     | 844.0  | QPSK       | 22.65            | ERP  | 0.184        | 1.0818 | 1M08G7D          |
|             |     |           |        | 16QAM      | 22.90            | ERP  | 0.195        | 1.0863 | 1M09D7W          |
| 26          | 15  | 831.5     | 841.5  | QPSK       | 22.63            | ERP  | 0.183        | 1.0902 | 1M09G7D          |
|             |     |           |        | 16QAM      | 23.00            | ERP  | <b>0.200</b> | 1.0837 | 1M08D7W          |
| CAT-M1 Band | BW  | Frequency |        | Modulation | ERP / EIRP (dBm) |      | (W)          | 99%    | Type of Emission |
| 66          | 1.4 | 1710.7    | 1779.3 | QPSK       | 25.16            | EIRP | 0.328        | 1.0740 | 1M07G7D          |
|             |     |           |        | 16QAM      | 24.90            | EIRP | 0.309        | 1.0772 | 1M08D7W          |
| 66          | 3   | 1711.5    | 1778.5 | QPSK       | 25.08            | EIRP | 0.322        | 1.0765 | 1M08G7D          |
|             |     |           |        | 16QAM      | 24.68            | EIRP | 0.294        | 1.0785 | 1M08D7W          |
| 66          | 5   | 1712.5    | 1777.5 | QPSK       | 25.14            | EIRP | 0.327        | 1.0827 | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.48            | EIRP | 0.353        | 1.0824 | 1M08D7W          |
| 66          | 10  | 1715.0    | 1775.0 | QPSK       | 25.08            | EIRP | 0.322        | 1.0888 | 1M09G7D          |
|             |     |           |        | 16QAM      | 25.47            | EIRP | 0.352        | 1.0844 | 1M08D7W          |
| 66          | 15  | 1717.5    | 1772.5 | QPSK       | 25.17            | EIRP | <b>0.329</b> | 1.0801 | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.48            | EIRP | 0.353        | 1.0872 | 1M09D7W          |
| 66          | 20  | 1720.0    | 1770.0 | QPSK       | 25.17            | EIRP | <b>0.329</b> | 1.0810 | 1M08G7D          |
|             |     |           |        | 16QAM      | 25.51            | EIRP | <b>0.356</b> | 1.0859 | 1M09D7W          |

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## 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ISED RSS-GEN Issue 5 Amendment 2 Feb. 2021

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-133 Issue 7,

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

ISED RSS-132 Issue 4 Jan. 2023

ISED RSS-139 Issue 4 Amendment  
Oct. 2022

## 1.6 Test Facility

| Laboratory                                                                                                                                                                   | Test Site Address                                                                         | Test Site Name | FCC Designation number | IC CAB identifier |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702)                                                                                                                        | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027                 | TW3702            |
|                                                                                                                                                                              |                                                                                           | SAC 2          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC 3          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conduction 1   |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 1    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 2    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 3    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 4    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 5    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted 6    |                        |                   |
|                                                                                                                                                                              | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028                 |                   |
|                                                                                                                                                                              |                                                                                           | SAC C          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC D          |                        |                   |
|                                                                                                                                                                              |                                                                                           | SAC G          |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted A    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted B    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted C    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted D    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted E    |                        |                   |
|                                                                                                                                                                              |                                                                                           | Conducted F    |                        |                   |
| Conducted G                                                                                                                                                                  |                                                                                           |                |                        |                   |
| <b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address. |                                                                                           |                |                        |                   |

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### 1.7 Special Accessories

No special accessories were used during testing.

### 1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

### 1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 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 and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

**2.5 Final Amplifier Voltage and Current Information:****CAT-M1 Band 2**

| Test mode                 | DC voltage (V) | DC current (mA) |
|---------------------------|----------------|-----------------|
| CAT-M1<br>Band 2_20M QPSK | 3.6            | 172             |

**CAT-M1 Band 4**

| Test mode                 | DC voltage (V) | DC current (mA) |
|---------------------------|----------------|-----------------|
| CAT-M1<br>Band 4_20M QPSK | 3.6            | 153             |

**LTE Band 5**

| Test mode              | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| LTE Band 5_10M<br>QPSK | 3.6            | 167             |

**CAT-M1 Band 12**

| Test mode             | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| CAT-M1<br>Band 12_10M | 3.6            | 168             |

**CAT-M1 Band 13**

| Test mode             | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| CAT-M1<br>Band 13_10M | 3.6            | 159             |

**CAT-M1 Band 25**

| Test mode             | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| CAT-M1<br>Band 25_20M | 3.6            | 166             |

**CAT-M1 Band 26 for Part 90S**

| Test Mode             | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| CAT-M1<br>Band 26_10M | 3.6            | 170             |

**LTE Band 26**

| Test mode               | DC voltage (V) | DC current (mA) |
|-------------------------|----------------|-----------------|
| LTE Band 26_15M<br>QPSK | 3.6            | 159             |

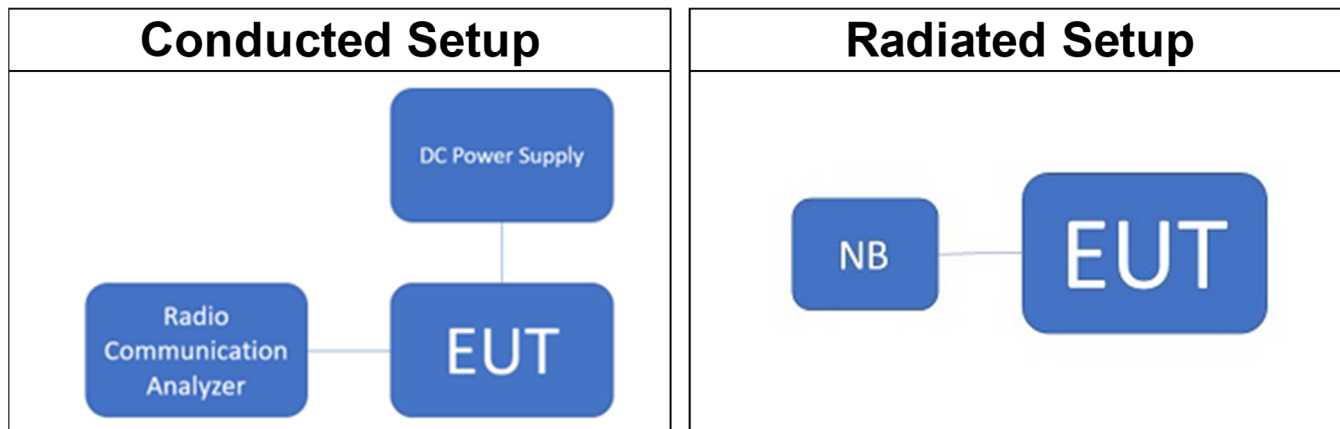
**CAT-M1 Band 66**

| Test mode             | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| CAT-M1<br>Band 66_20M | 3.6            | 164             |

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## 2.6 Test Configuration



**Note:** Radio Communication Analyzer is placed in remote side for radiated test.

### 2.6.1 Equipment used for test

| Radiated Emission Test Site: SAC 3 |        |              |                 |           |          |
|------------------------------------|--------|--------------|-----------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR    | MODEL NUMBER | SERIAL NUMBER   | LAST CAL. | CAL DUE. |
| Notebook                           | Lenovo | L480         | PF-1D07MD 19/08 | N/A       | N/A      |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules                                                                                                                          | IC Rules                                                                      | Description Of Test                                                                   | Result    |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
| §2.1046(a)                                                                                                                         | RSS-GEN §6.12                                                                 | RF Power Output                                                                       | Compliant |
| §22.913(a)(5)<br>§24.232(c)<br>§27.50(b)(9)(10)<br>§27.50(c)(9)(10)<br>§27.50(d)(4)<br>§90.635                                     | RSS-130 §4.6<br>RSS-132 §5.4<br>RSS-133 §5.5<br>RSS-139 §5.5                  | ERP/ EIRP measurement                                                                 | Compliant |
| §2.1049(h)                                                                                                                         | RSS-GEN §6.7                                                                  | 99% & 26dB Occupied Bandwidth                                                         | Compliant |
| §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.50(c)(5)<br>§27.53(c)(2),(4)<br>§27.53(g)<br>§27.53(h)<br>§90.691                       | RSS-GEN §6.13<br>RSS-130 §4.7<br>RSS-132 §5.5<br>RSS-133 §5.6<br>RSS-139 §5.6 | Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements | Compliant |
| §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2),(4)<br>§27.50(c)(5)<br>§27.53(f)<br>§27.53(g)<br>§27.53(h)<br>§90.691(a)(1)(2) | RSS-GEN §6.13<br>RSS-130 §4.7<br>RSS-132 §5.5<br>RSS-133 §5.6<br>RSS-139 §5.6 | Field Strength of Spurious Radiation                                                  | Compliant |
| §22.913(d)<br>§24.232(d)<br>§27.50(a)(1)(B)<br>§27.50(d)(5)                                                                        | RSS-130 §4.6.1<br>RSS-132 §5.4<br>RSS-133 §5.5<br>RSS-139 §5.5                | Peak to Average Ratio                                                                 | Compliant |
| §2.1055(a)(1)<br>§22.355<br>§24.235 §27.54                                                                                         | RSS-130 §4.5<br>RSS-132 §5.3<br>RSS-133 §5.4<br>RSS-139 §5.4                  | Frequency Stability                                                                   | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Configuration

1. The EUT has been tested under operating condition.
2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
3. The LTE power of B17 is the same as that of B12, so the test items will be covered by B12.

| Test Items |              |   |   | Max. Output Power      |   |   |    |    |    |            |       |      |      |      |
|------------|--------------|---|---|------------------------|---|---|----|----|----|------------|-------|------|------|------|
| Band       | Test Channel |   |   | Bandwidth (MHz)        |   |   |    |    |    | Modulation |       | RB # |      |      |
|            | L            | M | H | 1.4                    | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full |
| 2          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | V    | V    | V    |
| 4          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | V    | V    | V    |
| 5          | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | V    | V    | V    |
| 12         | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | V    | V    | V    |
| 13         | V            | V | V | -                      | - | V | V  | -  | -  | V          | V     | V    | V    | V    |
| 25         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | V    | V    | V    |
| 26         | V            | V | V | V                      | V | V | V  | V  | -  | V          | V     | V    | V    | V    |
| 26 P90     | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | V    | V    | V    |
| 66         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | V    | V    | V    |
| Test Items |              |   |   | Frequency Stability    |   |   |    |    |    |            |       |      |      |      |
| 2          | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 4          | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 5          | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 12         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 13         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 25         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 26         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 26 P90     | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 66         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| 71         | -            | V | - | -                      | - | - | V  | -  | -  | V          | -     | -    | -    | V    |
| Test Items |              |   |   | 26dB and 99% Bandwidth |   |   |    |    |    |            |       |      |      |      |
| Band       | Test Channel |   |   | Bandwidth (MHz)        |   |   |    |    |    | Modulation |       | RB # |      |      |
|            | L            | M | H | 1.4                    | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full |
| 2          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 4          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 5          | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 12         | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 13         | V            | V | V | -                      | - | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 25         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 26         | V            | V | V | V                      | V | V | V  | V  | -  | V          | V     | -    | -    | V    |
| 26 P90     | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 66         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| Test Items |              |   |   | Peak-to-Average Ratio  |   |   |    |    |    |            |       |      |      |      |
| 2          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 4          | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 5          | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 12         | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 13         | V            | V | V | -                      | - | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 25         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |
| 26         | V            | V | V | V                      | V | V | V  | V  | -  | V          | V     | -    | -    | V    |
| 26 P90     | V            | V | V | V                      | V | V | V  | -  | -  | V          | V     | -    | -    | V    |
| 66         | V            | V | V | V                      | V | V | V  | V  | V  | V          | V     | -    | -    | V    |

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| Test Items |              |   |   | Band Edge          |   |   |    |    |    |            |       |      |      |      |
|------------|--------------|---|---|--------------------|---|---|----|----|----|------------|-------|------|------|------|
| Band       | Test Channel |   |   | Bandwidth (MHz)    |   |   |    |    |    | Modulation |       | RB # |      |      |
|            | L            | M | H | 1.4                | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full |
| 2          | V            | - | V | V                  | V | V | V  | V  | V  | V          | -     | V    | V    | V    |
| 4          | V            | - | V | V                  | V | V | V  | V  | V  | V          | -     | V    | V    | V    |
| 5          | V            | - | V | V                  | V | V | V  | -  | -  | V          | -     | V    | V    | V    |
| 12         | V            | - | V | V                  | V | V | V  | -  | -  | V          | -     | V    | V    | V    |
| 13         | V            | - | V | -                  | - | V | V  | -  | -  | V          | -     | V    | V    | V    |
| 25         | V            | - | V | V                  | V | V | V  | V  | V  | V          | -     | V    | V    | V    |
| 26         | V            | - | V | V                  | V | V | V  | V  | -  | V          | -     | V    | V    | V    |
| 26 P90     | V            | - | V | V                  | V | V | V  | -  | -  | V          | -     | V    | V    | V    |
| 66         | V            | - | V | V                  | V | V | V  | V  | V  | V          | -     | V    | V    | V    |
| Test Items |              |   |   | Conducted Emission |   |   |    |    |    |            |       |      |      |      |
| 2          | V            | V | V | V                  | V | V | V  | V  | V  | V          | -     | V    | -    | -    |
| 4          | V            | V | V | V                  | V | V | V  | V  | V  | V          | -     | V    | -    | -    |
| 5          | V            | V | V | V                  | V | V | V  | -  | -  | V          | -     | V    | -    | -    |
| 12         | V            | V | V | V                  | V | V | V  | -  | -  | V          | -     | V    | -    | -    |
| 13         | V            | V | V | -                  | - | V | V  | -  | -  | V          | -     | V    | -    | -    |
| 25         | V            | V | V | V                  | V | V | V  | V  | V  | V          | -     | V    | -    | -    |
| 26         | V            | V | V | V                  | V | V | V  | V  | -  | V          | -     | V    | -    | -    |
| 26 P90     | V            | V | V | V                  | V | V | V  | -  | -  | V          | -     | V    | -    | -    |
| 66         | V            | V | V | V                  | V | V | V  | V  | V  | V          | -     | V    | -    | -    |
| Test Items |              |   |   | Radiated Emission  |   |   |    |    |    |            |       |      |      |      |
| Band       | Test Channel |   |   | Bandwidth (MHz)    |   |   |    |    |    | Modulation |       | RB # |      |      |
|            | L            | M | H | 1.4                | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full |
| 2          | V            | V | V | -                  | - | - | -  | V  | -  | -          | V     | V    | -    | -    |
| 4          | V            | V | V | -                  | - | - | -  | V  | -  | -          | V     | V    | -    | -    |
| 5          | V            | V | V | -                  | - | - | V  | -  | -  | -          | V     | V    | -    | -    |
| 12         | V            | V | V | -                  | - | - | V  | -  | -  | -          | V     | V    | -    | -    |
| 13         | V            | V | V | -                  | - | V | -  | -  | -  | -          | V     | V    | -    | -    |
| 25         | V            | V | V | -                  | - | - | -  | -  | V  | -          | V     | V    | -    | -    |
| 26         | V            | V | V | -                  | - | - | -  | V  | -  | -          | V     | V    | -    | -    |
| 26 P90     | V            | V | V | -                  | - | V | -  | -  | -  | -          | V     | V    | -    | -    |
| 66         | V            | V | V | -                  | - | - | -  | -  | V  | -          | V     | V    | -    | -    |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                                               | Uncertainty |
|----------------------------------------------------------|-------------|
| RF Power Output                                          | +/- 0.97 dB |
| ERP/ EIRP measurement                                    | +/- 2.15 dB |
|                                                          | +/- 2.15 dB |
| Emission Bandwidth                                       | +/- 1.38 Hz |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 0.77 dB |
| Peak to Average Ratio                                    | +/- 0.97 dB |
| Frequency Stability vs. Temperature                      | +/- 1.48 Hz |
| Frequency Stability vs. Voltage                          | +/- 1.48 Hz |
| Temperature                                              | +/- 0.6 °C  |
| Humidity                                                 | +/- 3 %     |
| DC / AC Power Source                                     | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.15 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.02 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- | 2 dB    | 33GHz-50GHz     |
|                                                    | +/- | 1.59 dB | 50GHz-60GHz     |
|                                                    | +/- | 1.7 dB  | 60GHz-90GHz     |
|                                                    | +/- | 1.64 dB | 90GHz-140GHz    |
|                                                    | +/- | 3.83 dB | 140GHz-220GHz   |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

| Conducted Emission Test Site: Conducted 3 |               |                     |                |            |            |
|-------------------------------------------|---------------|---------------------|----------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER        | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
| Attenuator                                | Mini-Circuits | BW-S10W2+           | 12             | 12/12/2023 | 12/11/2024 |
| DC Block                                  | Mini-Circuits | BLK-18-S+           | 12             | 12/12/2023 | 12/11/2024 |
| DC Power Supply                           | Gwinstek      | SPS-3610            | GEW902152      | 01/18/2024 | 01/17/2025 |
| Spectrum Analyzer                         | KEYSIGHT      | N9010A              | MY57120290     | 04/10/2024 | 04/09/2025 |
| Radio Communication Analyzer              | Anritsu       | MT8821C             | 6261786084     | 01/16/2024 | 01/15/2025 |
| Splitter                                  | RF-LAMBDA     | RFLT2W1G18G         | 11-JSPF412-018 | 12/12/2023 | 12/11/2024 |
| Temperature Chamber                       | Giant Force   | GTH-150-40-CP-AR    | MAA0512-018    | 06/05/2024 | 06/04/2025 |
| Test Software                             | SGS           | Radio Test Software | Ver. 21        | N.C.R      | N.C.R      |

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## 6.2 Radiated Measurement

| Radiated Emission Test Site: SAC 3 |                   |                                                                              |                                                                |            |            |
|------------------------------------|-------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR               | MODEL NUMBER                                                                 | SERIAL NUMBER                                                  | LAST CAL.  | CAL DUE.   |
| 1.3G High Pass Filter              | Woken             | WHKX10-1066                                                                  | 20                                                             | 12/12/2023 | 12/11/2024 |
| 3.1G High Pass Filter              | Woken             | WFIL-H3100-18000F-01                                                         | WRGBAFWC2B6                                                    | 12/12/2023 | 12/11/2024 |
| Band Reject Filter 1700-2000       | EWT               | EWT-54-0038                                                                  | M1                                                             | 12/12/2023 | 12/11/2024 |
| Band Reject Filter 635-920         | Titan             | T04N63592050S01                                                              | 23040703-4                                                     | 12/12/2023 | 12/11/2024 |
| Bi-log Antenna                     | SCHWARZBECK       | VULB9168                                                                     | 1208                                                           | 07/17/2024 | 07/16/2025 |
| Bi-log Antenna                     | SCHWARZBECK       | VULB9168                                                                     | 378                                                            | 08/09/2024 | 08/08/2025 |
| Coaxial Cables                     | EMCI+Huber Suhner | EMC107-SM-SM-1000<br>+SUCOFLEX 104PEA<br>+EMC107-SM-SM-1500<br>+SUCOFLEX 106 | RX Cable 9K-18G<br>(221110+MY4251/4P<br>EA+221106+76096/6<br>) | 08/30/2024 | 08/29/2025 |
| Coaxial Cables                     | Huber Suhner      | SUCOFLEX 102                                                                 | RX Cable 18G-40G<br>MY2630/2+805062/2                          | 08/30/2024 | 08/29/2025 |
| Coaxial Cables                     | Huber Suhner      | SUCOFLEX 102+SUCOFLEX 106                                                    | TX Cable 30M-40G<br>23051/2+76096/6+2<br>2962/2                | 08/30/2024 | 08/29/2025 |
| EXA Spectrum Analyzer              | KEYSIGHT          | N9010B                                                                       | MY63440386                                                     | 02/06/2024 | 02/05/2025 |
| Horn Antenna                       | RF SPIN           | DRH0844                                                                      | LE2D05A0844                                                    | 07/10/2024 | 07/09/2025 |
| Horn Antenna                       | SCHWARZBECK       | BBHA9120D                                                                    | 1441                                                           | 09/23/2024 | 09/22/2025 |
| Horn Antenna                       | SCHWARZBECK       | BBHA9120D                                                                    | 603                                                            | 05/15/2024 | 05/14/2025 |
| Horn Antenna                       | SCHWARZBECK       | BBHA9170                                                                     | 184                                                            | 12/28/2023 | 12/27/2024 |
| Network Analyzer                   | Anritsu           | MS4644A                                                                      | 1216312                                                        | 12/07/2023 | 12/06/2024 |
| Pre-Amplifier                      | EMCI              | EMC118A45SEE                                                                 | 980868                                                         | 08/30/2024 | 08/29/2025 |
| Pre-Amplifier                      | EMCI              | EMC184045SEE                                                                 | 9080939                                                        | 08/30/2024 | 08/29/2025 |
| Pre-Amplifier                      | HP                | 8447D                                                                        | 2944A07676                                                     | 08/30/2024 | 08/29/2025 |
| Radio Communication Analyzer       | Anritsu           | MT8821C                                                                      | 6262044751                                                     | 10/31/2023 | 10/30/2024 |
| Site Cal                           | SGS               | SAC 3                                                                        | N/A                                                            | 08/30/2024 | 08/29/2025 |
| Test Software                      | Audix             | e3                                                                           | Ver. 9.210616                                                  | N.C.R      | N.C.R      |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 MAXIMUM OUTPUT POWER

### 7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

### 7.2 FCC ERP/EIRP LIMIT

According to FCC §2.1046

#### FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

#### FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

#### FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

#### FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

#### FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

#### FCC 90.635(b)

Mobile station is limited to 100W ERP

### RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

### RSS-132 §5.4

The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment.

The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

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### RSS-133 §5.5

The maximum power spectral density of the equipment, measured in terms of average values, shall comply with the limits specified in table 2. These limits are either specified in terms of equivalent isotropically radiated power (e.i.r.p.) or TRP for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-510 for more deployment details in the bands 1850-1915 MHz and 1930-1995 MHz. AAS equipment with eight antenna elements or less can demonstrate compliance with the e.i.r.p limit specified for non-AAS equipment in table 2, instead of the TRP limit.

**Table 2: Maximum power spectral density of equipment**

| Equipment type                         | Maximum power spectral density |
|----------------------------------------|--------------------------------|
| Non-AAS fixed station and base station | 3280 W/MHz e.i.r.p             |
| AAS fixed station and base station     | 46 dBm/MHz TRP                 |
| Subscriber equipment                   | 2 W /channel bandwidth e.i.r.p |

### RSS-139 §5.5

The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

The limits in this RSS are specified for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-513 and SRSP-519 for more details on the bands 2110-2180 MHz and 2180-2200 MHz respectively.

**Table 3: Maximum power of equipment in the band 1710-1780 MHz**

| Equipment type                 | Maximum power                     |
|--------------------------------|-----------------------------------|
| Fixed station and base station | 30 dBm e.i.r.p./channel bandwidth |
| Subscriber equipment           | 30 dBm e.i.r.p./channel bandwidth |

**Table 4: Maximum power of equipment in the band 2110-2180 MHz**

| Equipment type                         | Maximum power                     |
|----------------------------------------|-----------------------------------|
| Non-AAS fixed station and base station | 65 dBm e.i.r.p./MHz               |
| AAS fixed station and base station     | 46 dBm TRP/MHz                    |
| Subscriber equipment                   | 30 dBm e.i.r.p./channel bandwidth |

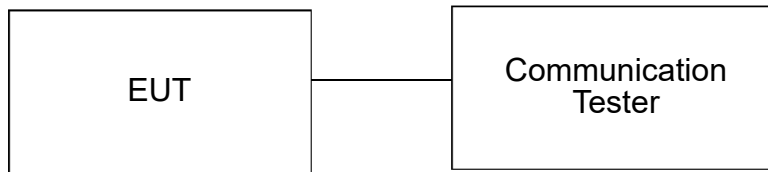
**Table 5: Maximum power of equipment in the band 2180-2200 MHz**

| Equipment type       | Maximum power       |
|----------------------|---------------------|
| Non-AAS base station | 65 dBm e.i.r.p./MHz |
| AAS base station     | 46 dBm TRP/MHz      |

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### 7.3 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 7.4 Output Power Measurement Applicable Guidance

The transmitter output was connected to a communication tester. Transmitter output was read off the communication tester in dBm. The power output at the transmitter antenna port was determined by the communication tester reading.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results. Wall bands conducted average power is obtained from the simulator telecommunication test set.

### 7.5 Determining ERP and/or EIRP from conducted RF output power measurements

$$ERP/EIRP = P_{Meas} + GT - LC$$

Where:

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ERP/EIRP          | = effective or equivalent radiated power, respectively (expressed in the same units as P <sub>Meas</sub> , typically dBW or dBm); |
| P <sub>Meas</sub> | = measured transmitter output power or PSD, in dBm or dBW;                                                                        |
| GT                | = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)                                                                    |
| LC                | = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2                                         |

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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## 7.6 Measurement Result

Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                    | 18607      | 1850.7          | QPSK       | 1             | 0        | 0     | 22.94                   | <b>24.94</b>       | 33               | -8.06       |
|                                                        |            |                 |            | 6             | 0        | 0     | 20.17                   | 22.17              | 33               | -10.83      |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.86                   | 24.86              | 33               | -8.14       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.28                   | 23.28              | 33               | -9.72       |
|                                                        | 19193      | 1909.3          | QPSK       | 1             | 5        | 0     | 22.68                   | 24.68              | 33               | -8.32       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.10                   | 23.10              | 33               | -9.90       |
|                                                        | 18607      | 1850.7          | 16QAM      | 1             | 0        | 0     | 21.22                   | 23.22              | 33               | -9.78       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.22                   | 23.22              | 33               | -9.78       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 22.28                   | 24.28              | 33               | -8.72       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.16                   | 23.16              | 33               | -9.84       |
|                                                        | 19193      | 1909.3          | 16QAM      | 1             | 5        | 0     | 22.38                   | <b>24.38</b>       | 33               | -8.62       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.24                   | 23.24              | 33               | -9.76       |

Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                      | 18615      | 1851.5          | QPSK       | 1             | 0        | 0     | 22.66                   | 24.66              | 33               | -8.34       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.03                   | 23.03              | 33               | -9.97       |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.60                   | 24.60              | 33               | -8.40       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.03                   | 23.03              | 33               | -9.97       |
|                                                        | 19185      | 1908.5          | QPSK       | 1             | 5        | 1     | 22.69                   | <b>24.69</b>       | 33               | -8.31       |
|                                                        |            |                 |            | 6             | 0        | 1     | 20.96                   | 22.96              | 33               | -10.04      |
|                                                        | 18615      | 1851.5          | 16QAM      | 1             | 0        | 0     | 22.11                   | 24.11              | 33               | -8.89       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.06                   | 23.06              | 33               | -9.94       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 22.09                   | 24.09              | 33               | -8.91       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.01                   | 23.01              | 33               | -9.99       |
|                                                        | 19185      | 1908.5          | 16QAM      | 1             | 5        | 1     | 22.23                   | <b>24.23</b>       | 33               | -8.77       |
|                                                        |            |                 |            | 6             | 0        | 1     | 21.05                   | 23.05              | 33               | -9.95       |

Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                      | 18625      | 1852.5          | QPSK       | 1             | 0        | 0     | 22.81                   | 24.81              | 33               | -8.19       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.11                   | 24.11              | 33               | -8.89       |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.77                   | 24.77              | 33               | -8.23       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.13                   | 24.13              | 33               | -8.87       |
|                                                        | 19175      | 1907.5          | QPSK       | 1             | 5        | 3     | 22.83                   | <b>24.83</b>       | 33               | -8.17       |
|                                                        |            |                 |            | 6             | 0        | 3     | 22.03                   | 24.03              | 33               | -8.97       |
|                                                        | 18625      | 1852.5          | 16QAM      | 1             | 0        | 0     | 23.15                   | <b>25.15</b>       | 33               | -7.85       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.02                   | 23.02              | 33               | -9.98       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 23.03                   | 25.03              | 33               | -7.97       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.01                   | 23.01              | 33               | -9.99       |
|                                                        | 19175      | 1907.5          | 16QAM      | 1             | 5        | 3     | 23.15                   | <b>25.15</b>       | 33               | -7.85       |
|                                                        |            |                 |            | 6             | 0        | 3     | 21.03                   | 23.03              | 33               | -9.97       |

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Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                     | 18650      | 1855            | QPSK       | 1             | 0        | 0     | 22.55                   | 24.55              | 33               | -8.45       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.03                   | 24.03              | 33               | -8.97       |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.74                   | 24.74              | 33               | -8.26       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.14                   | 24.14              | 33               | -8.86       |
|                                                        | 19150      | 1905            | QPSK       | 1             | 5        | 7     | 22.81                   | <b>24.81</b>       | 33               | -8.19       |
|                                                        |            |                 |            | 6             | 0        | 7     | 22.10                   | 24.10              | 33               | -8.90       |
|                                                        | 18650      | 1855            | 16QAM      | 1             | 0        | 0     | 23.02                   | 25.02              | 33               | -7.98       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.12                   | 23.12              | 33               | -9.88       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 23.03                   | 25.03              | 33               | -7.97       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.06                   | 23.06              | 33               | -9.94       |
|                                                        | 19150      | 1905            | 16QAM      | 1             | 5        | 7     | 23.13                   | <b>25.13</b>       | 33               | -7.87       |
|                                                        |            |                 |            | 6             | 0        | 7     | 21.02                   | 23.02              | 33               | -9.98       |

Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                     | 18675      | 1857.5          | QPSK       | 1             | 0        | 0     | 22.79                   | 24.79              | 33               | -8.21       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.64                   | 24.64              | 33               | -8.36       |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.83                   | <b>24.83</b>       | 33               | -8.17       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.74                   | 24.74              | 33               | -8.26       |
|                                                        | 19125      | 1902.5          | QPSK       | 1             | 5        | 11    | 22.82                   | 24.82              | 33               | -8.18       |
|                                                        |            |                 |            | 6             | 0        | 11    | 22.66                   | 24.66              | 33               | -8.34       |
|                                                        | 18675      | 1857.5          | 16QAM      | 1             | 0        | 0     | 23.35                   | <b>25.35</b>       | 33               | -7.65       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.78                   | 24.78              | 33               | -8.22       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 23.31                   | 25.31              | 33               | -7.69       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.68                   | 24.68              | 33               | -8.32       |
|                                                        | 19125      | 1902.5          | 16QAM      | 1             | 5        | 11    | 23.05                   | 25.05              | 33               | -7.95       |
|                                                        |            |                 |            | 6             | 0        | 11    | 22.64                   | 24.64              | 33               | -8.36       |

Antenna gain (dBi)

2

| CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                     | 18700      | 1860            | QPSK       | 1             | 0        | 0     | 22.80                   | 24.80              | 33               | -8.20       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.81                   | 24.81              | 33               | -8.19       |
|                                                        | 18900      | 1880            | QPSK       | 1             | 0        | 0     | 22.67                   | 24.67              | 33               | -8.33       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.64                   | 24.64              | 33               | -8.36       |
|                                                        | 19100      | 1900            | QPSK       | 1             | 5        | 15    | 22.85                   | <b>24.85</b>       | 33               | -8.15       |
|                                                        |            |                 |            | 6             | 0        | 15    | 22.68                   | 24.68              | 33               | -8.32       |
|                                                        | 18700      | 1860            | 16QAM      | 1             | 0        | 0     | 23.15                   | 25.15              | 33               | -7.85       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.72                   | 24.72              | 33               | -8.28       |
|                                                        | 18900      | 1880            | 16QAM      | 1             | 0        | 0     | 23.12                   | 25.12              | 33               | -7.88       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.65                   | 24.65              | 33               | -8.35       |
|                                                        | 19100      | 1900            | 16QAM      | 1             | 5        | 15    | 23.16                   | <b>25.16</b>       | 33               | -7.84       |
|                                                        |            |                 |            | 6             | 0        | 15    | 22.70                   | 24.70              | 33               | -8.30       |

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Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                    | 19957      | 1710.7          | QPSK       | 1             | 0        | 0     | 22.85                   | 24.85              | 30               | -5.15       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.36                   | 23.36              | 30               | -6.64       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 23.06                   | <b>25.06</b>       | 30               | -4.94       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.30                   | 23.30              | 30               | -6.70       |
|                                                        | 20393      | 1754.3          | QPSK       | 1             | 5        | 0     | 22.75                   | 24.75              | 30               | -5.25       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.32                   | 23.32              | 30               | -6.68       |
|                                                        | 19957      | 1710.7          | 16QAM      | 1             | 0        | 0     | 22.37                   | 24.37              | 30               | -5.63       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.35                   | 23.35              | 30               | -6.65       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 22.41                   | 24.41              | 30               | -5.59       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.35                   | 23.35              | 30               | -6.65       |
|                                                        | 20393      | 1754.3          | 16QAM      | 1             | 5        | 0     | 22.68                   | <b>24.68</b>       | 30               | -5.32       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.35                   | 23.35              | 30               | -6.65       |

Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                      | 19965      | 1711.5          | QPSK       | 1             | 0        | 0     | 22.89                   | 24.89              | 30               | -5.11       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.26                   | 23.26              | 30               | -6.74       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 23.02                   | <b>25.02</b>       | 30               | -4.98       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.35                   | 23.35              | 30               | -6.65       |
|                                                        | 20385      | 1753.5          | QPSK       | 1             | 5        | 1     | 22.78                   | 24.78              | 30               | -5.22       |
|                                                        |            |                 |            | 6             | 0        | 1     | 21.27                   | 23.27              | 30               | -6.73       |
|                                                        | 19965      | 1711.5          | 16QAM      | 1             | 0        | 0     | 22.31                   | 24.31              | 30               | -5.69       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.41                   | 23.41              | 30               | -6.59       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 22.14                   | 24.14              | 30               | -5.86       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.24                   | 23.24              | 30               | -6.76       |
|                                                        | 20385      | 1753.5          | 16QAM      | 1             | 5        | 1     | 22.60                   | <b>24.60</b>       | 30               | -5.40       |
|                                                        |            |                 |            | 6             | 0        | 1     | 21.29                   | 23.29              | 30               | -6.71       |

Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                      | 19975      | 1712.5          | QPSK       | 1             | 0        | 0     | 22.84                   | 24.84              | 30               | -5.16       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.21                   | 24.21              | 30               | -5.79       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 22.87                   | 24.87              | 30               | -5.13       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.14                   | 24.14              | 30               | -5.86       |
|                                                        | 20375      | 1752.5          | QPSK       | 1             | 5        | 3     | 22.92                   | <b>24.92</b>       | 30               | -5.08       |
|                                                        |            |                 |            | 6             | 0        | 3     | 22.15                   | 24.15              | 30               | -5.85       |
|                                                        | 19975      | 1712.5          | 16QAM      | 1             | 0        | 0     | 23.32                   | 25.32              | 30               | -4.68       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.30                   | 23.30              | 30               | -6.70       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 23.26                   | 25.26              | 30               | -4.74       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.25                   | 23.25              | 30               | -6.75       |
|                                                        | 20375      | 1752.5          | 16QAM      | 1             | 5        | 3     | 23.38                   | <b>25.38</b>       | 30               | -4.62       |
|                                                        |            |                 |            | 6             | 0        | 3     | 21.21                   | 23.21              | 30               | -6.79       |

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Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                     | 20000      | 1715            | QPSK       | 1             | 0        | 0     | 22.83                   | 24.83              | 30               | -5.17       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.30                   | 24.30              | 30               | -5.70       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 22.98                   | <b>24.98</b>       | 30               | -5.02       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.25                   | 24.25              | 30               | -5.75       |
|                                                        | 20350      | 1750            | QPSK       | 1             | 5        | 7     | 22.91                   | 24.91              | 30               | -5.09       |
|                                                        |            |                 |            | 6             | 0        | 7     | 22.26                   | 24.26              | 30               | -5.74       |
|                                                        | 20000      | 1715            | 16QAM      | 1             | 0        | 0     | 23.31                   | <b>25.31</b>       | 30               | -4.69       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.29                   | 23.29              | 30               | -6.71       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 23.23                   | 25.23              | 30               | -4.77       |
|                                                        |            |                 |            | 6             | 0        | 0     | 21.26                   | 23.26              | 30               | -6.74       |
|                                                        | 20350      | 1750            | 16QAM      | 1             | 5        | 7     | 23.26                   | 25.26              | 30               | -4.74       |
|                                                        |            |                 |            | 6             | 0        | 7     | 21.26                   | 23.26              | 30               | -6.74       |

Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                     | 20025      | 1717.5          | QPSK       | 1             | 0        | 0     | 22.82                   | 24.82              | 30               | -5.18       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.82                   | 24.82              | 30               | -5.18       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 22.95                   | 24.95              | 30               | -5.05       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.84                   | 24.84              | 30               | -5.16       |
|                                                        | 20325      | 1747.5          | QPSK       | 1             | 5        | 11    | 23.05                   | <b>25.05</b>       | 30               | -4.95       |
|                                                        |            |                 |            | 6             | 0        | 11    | 22.78                   | 24.78              | 30               | -5.22       |
|                                                        | 20025      | 1717.5          | 16QAM      | 1             | 0        | 0     | 23.41                   | <b>25.41</b>       | 30               | -4.59       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.92                   | 24.92              | 30               | -5.08       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 23.35                   | 25.35              | 30               | -4.65       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.76                   | 24.76              | 30               | -5.24       |
|                                                        | 20325      | 1747.5          | 16QAM      | 1             | 5        | 11    | 23.26                   | 25.26              | 30               | -4.74       |
|                                                        |            |                 |            | 6             | 0        | 11    | 22.81                   | 24.81              | 30               | -5.19       |

Antenna gain (dBi) 2

| CAT-M1 Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |               |          |       |                         |                    |                  |             |
|--------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                               | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                     | 20050      | 1720            | QPSK       | 1             | 0        | 0     | 22.90                   | 24.90              | 30               | -5.10       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.89                   | 24.89              | 30               | -5.11       |
|                                                        | 20175      | 1732.5          | QPSK       | 1             | 0        | 0     | 22.88                   | 24.88              | 30               | -5.12       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.73                   | 24.73              | 30               | -5.27       |
|                                                        | 20300      | 1745            | QPSK       | 1             | 5        | 15    | 22.94                   | <b>24.94</b>       | 30               | -5.06       |
|                                                        |            |                 |            | 6             | 0        | 15    | 22.81                   | 24.81              | 30               | -5.19       |
|                                                        | 20050      | 1720            | 16QAM      | 1             | 0        | 0     | 23.28                   | <b>25.28</b>       | 30               | -4.72       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.82                   | 24.82              | 30               | -5.18       |
|                                                        | 20175      | 1732.5          | 16QAM      | 1             | 0        | 0     | 22.27                   | 24.27              | 30               | -5.73       |
|                                                        |            |                 |            | 6             | 0        | 0     | 22.79                   | 24.79              | 30               | -5.21       |
|                                                        | 20300      | 1745            | 16QAM      | 1             | 5        | 15    | 23.27                   | 25.27              | 30               | -4.73       |
|                                                        |            |                 |            | 6             | 0        | 15    | 22.81                   | 24.81              | 30               | -5.19       |

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Antenna gain (dBi) 2

| M1 Band 5 Uplink frequency band : 824 to 849 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|--------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                         | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                              | 20407      | 824.7           | QPSK       | 1             | 0        | 0     | 22.54                   | 22.39             | 24.54              | 38.45           | -16.06      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.95                   | 20.80             | 22.95              | 38.45           | -17.65      |
|                                                  | 20525      | 836.5           | QPSK       | 1             | 0        | 0     | 22.87                   | 22.72             | <b>24.87</b>       | 38.45           | -15.73      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.91                   | 20.76             | 22.91              | 38.45           | -17.69      |
|                                                  | 20643      | 848.3           | QPSK       | 1             | 5        | 0     | 22.53                   | 22.38             | 24.53              | 38.45           | -16.07      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.96                   | 20.81             | 22.96              | 38.45           | -17.64      |
|                                                  | 20407      | 824.7           | 16QAM      | 1             | 0        | 0     | 22.10                   | 21.95             | 24.10              | 38.45           | -16.50      |
|                                                  |            |                 |            | 6             | 0        | 0     | 21.17                   | 21.02             | 23.17              | 38.45           | -17.43      |
|                                                  | 20525      | 836.5           | 16QAM      | 1             | 0        | 0     | 22.07                   | 21.92             | 24.07              | 38.45           | -16.53      |
|                                                  |            |                 |            | 6             | 0        | 0     | 21.19                   | 21.04             | 23.19              | 38.45           | -17.41      |
|                                                  | 20643      | 848.3           | 16QAM      | 1             | 5        | 0     | 22.45                   | 22.30             | <b>24.45</b>       | 38.45           | -16.15      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.08                   | 19.93             | 22.08              | 38.45           | -18.52      |

Antenna gain (dBi) 2

| M1 Band 5 Uplink frequency band : 824 to 849 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|--------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                         | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                | 20415      | 825.5           | QPSK       | 1             | 0        | 0     | 22.58                   | 22.43             | <b>24.58</b>       | 38.45           | -16.02      |
|                                                  |            |                 |            | 6             | 0        | 0     | 21.01                   | 20.86             | 23.01              | 38.45           | -17.59      |
|                                                  | 20525      | 836.5           | QPSK       | 1             | 0        | 0     | 20.81                   | 20.66             | 22.81              | 38.45           | -17.79      |
|                                                  |            |                 |            | 6             | 0        | 0     | 21.02                   | 20.87             | 23.02              | 38.45           | -17.58      |
|                                                  | 20635      | 847.5           | QPSK       | 1             | 5        | 1     | 22.52                   | 22.37             | 24.52              | 38.45           | -16.08      |
|                                                  |            |                 |            | 6             | 0        | 1     | 20.99                   | 20.84             | 22.99              | 38.45           | -17.61      |
|                                                  | 20415      | 825.5           | 16QAM      | 1             | 0        | 0     | 21.87                   | 21.72             | 23.87              | 38.45           | -16.73      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.91                   | 20.76             | 22.91              | 38.45           | -17.69      |
|                                                  | 20525      | 836.5           | 16QAM      | 1             | 0        | 0     | 22.01                   | 21.86             | 24.01              | 38.45           | -16.59      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.92                   | 20.77             | 22.92              | 38.45           | -17.68      |
|                                                  | 20635      | 847.5           | 16QAM      | 1             | 5        | 1     | 22.22                   | 22.07             | <b>24.22</b>       | 38.45           | -16.38      |
|                                                  |            |                 |            | 6             | 0        | 1     | 20.90                   | 20.75             | 22.90              | 38.45           | -17.70      |

Antenna gain (dBi) 2

| M1 Band 5 Uplink frequency band : 824 to 849 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|--------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                         | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                | 20425      | 826.5           | QPSK       | 1             | 0        | 0     | 22.54                   | 22.39             | 24.54              | 38.45           | -16.06      |
|                                                  |            |                 |            | 6             | 0        | 0     | 22.00                   | 21.85             | 24.00              | 38.45           | -16.60      |
|                                                  | 20525      | 836.5           | QPSK       | 1             | 0        | 0     | 22.71                   | 22.56             | <b>24.71</b>       | 38.45           | -15.89      |
|                                                  |            |                 |            | 6             | 0        | 0     | 21.96                   | 21.81             | 23.96              | 38.45           | -16.64      |
|                                                  | 20625      | 846.5           | QPSK       | 1             | 5        | 3     | 22.65                   | 22.50             | 24.65              | 38.45           | -15.95      |
|                                                  |            |                 |            | 6             | 0        | 3     | 21.94                   | 21.79             | 23.94              | 38.45           | -16.66      |
|                                                  | 20425      | 826.5           | 16QAM      | 1             | 0        | 0     | 23.01                   | 22.86             | 25.01              | 38.45           | -15.59      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.86                   | 20.71             | 22.86              | 38.45           | -17.74      |
|                                                  | 20525      | 836.5           | 16QAM      | 1             | 0        | 0     | 23.00                   | 22.85             | 25.00              | 38.45           | -15.60      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.89                   | 20.74             | 22.89              | 38.45           | -17.71      |
|                                                  | 20625      | 846.5           | 16QAM      | 1             | 5        | 3     | 23.08                   | 22.93             | <b>25.08</b>       | 38.45           | -15.52      |
|                                                  |            |                 |            | 6             | 0        | 3     | 20.92                   | 20.77             | 22.92              | 38.45           | -17.68      |

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Antenna gain (dBi) 2

| M1 Band 5 Uplink frequency band : 824 to 849 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|--------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                         | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                               | 20450      | 829             | QPSK       | 1             | 0        | 0     | 22.58                   | 22.43             | 24.58              | 38.45           | -16.02      |
|                                                  |            |                 |            | 6             | 0        | 0     | 22.12                   | 21.97             | 24.12              | 38.45           | -16.48      |
|                                                  | 20525      | 836.5           | QPSK       | 1             | 0        | 0     | 22.71                   | 22.56             | <b>24.71</b>       | 38.45           | -15.89      |
|                                                  |            |                 |            | 6             | 0        | 0     | 22.11                   | 21.96             | 24.11              | 38.45           | -16.49      |
|                                                  | 20600      | 844             | QPSK       | 1             | 5        | 7     | 22.66                   | 22.51             | 24.66              | 38.45           | -15.94      |
|                                                  |            |                 |            | 6             | 0        | 7     | 22.07                   | 21.92             | 24.07              | 38.45           | -16.53      |
|                                                  | 20450      | 829             | 16QAM      | 1             | 0        | 0     | 23.05                   | 22.90             | 25.05              | 38.45           | -15.55      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.87                   | 20.72             | 22.87              | 38.45           | -17.73      |
|                                                  | 20525      | 836.5           | 16QAM      | 1             | 0        | 0     | 23.12                   | 22.97             | <b>25.12</b>       | 38.45           | -15.48      |
|                                                  |            |                 |            | 6             | 0        | 0     | 20.99                   | 20.84             | 22.99              | 38.45           | -17.61      |
|                                                  | 20600      | 844             | 16QAM      | 1             | 5        | 7     | 22.99                   | 22.84             | 24.99              | 38.45           | -15.61      |
|                                                  |            |                 |            | 6             | 0        | 7     | 20.92                   | 20.77             | 22.92              | 38.45           | -17.68      |

Antenna gain (dBi) 2

| CAT-M1 Band 12 Uplink frequency band : 699 to 716 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|-------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                              | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                                   | 23017      | 699.7           | QPSK       | 1             | 0        | 0     | 22.60                   | 22.45             | 24.60              | 34.77           | -12.32      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.05                   | 20.90             | 23.05              | 34.77           | -13.87      |
|                                                       | 23095      | 707.5           | QPSK       | 1             | 0        | 0     | 22.94                   | 22.79             | <b>24.94</b>       | 34.77           | -11.98      |
|                                                       |            |                 |            | 6             | 0        | 0     | 20.97                   | 20.82             | 22.97              | 34.77           | -13.95      |
|                                                       | 23173      | 715.3           | QPSK       | 1             | 5        | 0     | 22.46                   | 22.31             | 24.46              | 34.77           | -12.46      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.05                   | 20.90             | 23.05              | 34.77           | -13.87      |
|                                                       | 23017      | 699.7           | 16QAM      | 1             | 0        | 0     | 22.15                   | 22.00             | 24.15              | 34.77           | -12.77      |
|                                                       |            |                 |            | 6             | 0        | 0     | 20.99                   | 20.84             | 22.99              | 34.77           | -13.93      |
|                                                       | 23095      | 707.5           | 16QAM      | 1             | 0        | 0     | 22.11                   | 21.96             | 24.11              | 34.77           | -12.81      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.10                   | 20.95             | 23.10              | 34.77           | -13.82      |
|                                                       | 23173      | 715.5           | 16QAM      | 1             | 5        | 0     | 22.33                   | 22.18             | <b>24.33</b>       | 34.77           | -12.59      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.17                   | 21.02             | 23.17              | 34.77           | -13.75      |

Antenna gain (dBi) 2

| CAT-M1 Band 12 Uplink frequency band : 699 to 716 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|-------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                              | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                     | 23025      | 700.5           | QPSK       | 1             | 0        | 0     | 22.63                   | 22.48             | 24.63              | 34.77           | -12.29      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.00                   | 20.85             | 23.00              | 34.77           | -13.92      |
|                                                       | 23095      | 707.5           | QPSK       | 1             | 0        | 0     | 22.83                   | 22.68             | <b>24.83</b>       | 34.77           | -12.09      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.07                   | 20.92             | 23.07              | 34.77           | -13.85      |
|                                                       | 23165      | 714.5           | QPSK       | 1             | 5        | 1     | 22.47                   | 22.32             | 24.47              | 34.77           | -12.45      |
|                                                       |            |                 |            | 6             | 0        | 1     | 20.95                   | 20.80             | 22.95              | 34.77           | -13.97      |
|                                                       | 23025      | 700.5           | 16QAM      | 1             | 0        | 0     | 22.01                   | 21.86             | 24.01              | 34.77           | -12.91      |
|                                                       |            |                 |            | 6             | 0        | 0     | 20.90                   | 20.75             | 22.90              | 34.77           | -14.02      |
|                                                       | 23095      | 707.5           | 16QAM      | 1             | 0        | 0     | 21.97                   | 21.82             | 23.97              | 34.77           | -12.95      |
|                                                       |            |                 |            | 6             | 0        | 0     | 20.97                   | 20.82             | 22.97              | 34.77           | -13.95      |
|                                                       | 23165      | 714.5           | 16QAM      | 1             | 5        | 1     | 22.25                   | 22.10             | <b>24.25</b>       | 34.77           | -12.67      |
|                                                       |            |                 |            | 6             | 0        | 1     | 20.87                   | 20.72             | 22.87              | 34.77           | -14.05      |

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Antenna gain (dBi)

2

## CAT-M1 Band 12\_Uplink frequency band : 699 to 716 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
|----------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| 5        | 23035      | 701.5           | QPSK       | 1             | 0        | 0     | 22.61                   | 22.46             | 24.61              | 34.77           | -12.31      |
|          |            |                 |            | 6             | 0        | 0     | 22.25                   | 22.10             | 24.25              | 34.77           | -12.67      |
|          | 23095      | 707.5           | QPSK       | 1             | 0        | 0     | 22.65                   | 22.50             | <b>24.65</b>       | 34.77           | -12.27      |
|          |            |                 |            | 6             | 0        | 0     | 22.06                   | 21.91             | 24.06              | 34.77           | -12.86      |
|          | 23155      | 713.5           | QPSK       | 1             | 5        | 3     | 22.64                   | 22.49             | 24.64              | 34.77           | -12.28      |
|          |            |                 |            | 6             | 0        | 3     | 21.89                   | 21.74             | 23.89              | 34.77           | -13.03      |
|          | 23035      | 701.5           | 16QAM      | 1             | 0        | 0     | 23.06                   | 22.91             | <b>25.06</b>       | 34.77           | -11.86      |
|          |            |                 |            | 6             | 0        | 0     | 20.93                   | 20.78             | 22.93              | 34.77           | -13.99      |
|          | 23095      | 707.5           | 16QAM      | 1             | 0        | 0     | 23.01                   | 22.86             | 25.01              | 34.77           | -11.91      |
|          |            |                 |            | 6             | 0        | 0     | 20.90                   | 20.75             | 22.90              | 34.77           | -14.02      |
|          | 23155      | 713.5           | 16QAM      | 1             | 5        | 3     | 22.95                   | 22.80             | 24.95              | 34.77           | -11.97      |
|          |            |                 |            | 6             | 0        | 3     | 20.90                   | 20.75             | 22.90              | 34.77           | -14.02      |

Antenna gain (dBi)

2

## CAT-M1 Band 12\_Uplink frequency band : 699 to 716 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
|----------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| 10       | 23060      | 704             | QPSK       | 1             | 0        | 0     | 22.68                   | 22.53             | <b>24.68</b>       | 34.77           | -12.24      |
|          |            |                 |            | 6             | 0        | 0     | 22.16                   | 22.01             | 24.16              | 34.77           | -12.76      |
|          | 23095      | 707.5           | QPSK       | 1             | 0        | 0     | 22.67                   | 22.52             | 24.67              | 34.77           | -12.25      |
|          |            |                 |            | 6             | 0        | 0     | 22.08                   | 21.93             | 24.08              | 34.77           | -12.84      |
|          | 23130      | 711             | QPSK       | 1             | 5        | 7     | 22.61                   | 22.46             | 24.61              | 34.77           | -12.31      |
|          |            |                 |            | 6             | 0        | 7     | 22.10                   | 21.95             | 24.10              | 34.77           | -12.82      |
|          | 23060      | 704             | 16QAM      | 1             | 0        | 0     | 23.04                   | 22.89             | 25.04              | 34.77           | -11.88      |
|          |            |                 |            | 6             | 0        | 0     | 21.03                   | 20.88             | 23.03              | 34.77           | -13.89      |
|          | 23095      | 707.5           | 16QAM      | 1             | 0        | 0     | 23.17                   | 23.02             | <b>25.17</b>       | 34.77           | -11.75      |
|          |            |                 |            | 6             | 0        | 0     | 21.06                   | 20.91             | 23.06              | 34.77           | -13.86      |
|          | 23130      | 711             | 16QAM      | 1             | 5        | 7     | 22.97                   | 22.82             | 24.97              | 34.77           | -11.95      |
|          |            |                 |            | 6             | 0        | 7     | 20.82                   | 20.67             | 22.82              | 34.77           | -14.10      |

Antenna gain (dBi)

2

## CAT-M1 Band 13\_Uplink frequency band : 777 to 787 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
|----------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| 5        | 23205      | 779.5           | QPSK       | 1             | 0        | 0     | 22.63                   | 22.48             | 24.63              | 34.77           | -12.29      |
|          |            |                 |            | 6             | 0        | 0     | 22.04                   | 21.89             | 24.04              | 34.77           | -12.88      |
|          | 23230      | 782             | QPSK       | 1             | 0        | 0     | 22.75                   | 22.60             | 24.75              | 34.77           | -12.17      |
|          |            |                 |            | 6             | 0        | 0     | 22.12                   | 21.97             | 24.12              | 34.77           | -12.80      |
|          | 23255      | 784.5           | QPSK       | 1             | 5        | 3     | 22.77                   | 22.62             | <b>24.77</b>       | 34.77           | -12.15      |
|          |            |                 |            | 6             | 0        | 3     | 22.09                   | 21.94             | 24.09              | 34.77           | -12.83      |
|          | 23205      | 779.5           | 16QAM      | 1             | 0        | 0     | 23.10                   | 22.95             | 25.10              | 34.77           | -11.82      |
|          |            |                 |            | 6             | 0        | 0     | 20.97                   | 20.82             | 22.97              | 34.77           | -13.95      |
|          | 23230      | 782             | 16QAM      | 1             | 0        | 0     | 23.13                   | 22.98             | <b>25.13</b>       | 34.77           | -11.79      |
|          |            |                 |            | 6             | 0        | 0     | 20.98                   | 20.83             | 22.98              | 34.77           | -13.94      |
|          | 23255      | 784.5           | 16QAM      | 1             | 5        | 3     | 23.09                   | 22.94             | 25.09              | 34.77           | -11.83      |
|          |            |                 |            | 6             | 0        | 3     | 20.93                   | 20.78             | 22.93              | 34.77           | -13.99      |

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Antenna gain (dBi) 2

| CAT-M1 Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |               |          |       |                         |                   |                    |                 |             |
|-------------------------------------------------------|------------|-----------------|------------|---------------|----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                              | UL Channel | Frequency (MHz) | Modulation | RB allocation | RB Start | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                    | 23230      | 782             | QPSK       | 1             | 0        | 0     | 22.83                   | 22.68             | <b>24.83</b>       | 34.77           | -12.09      |
|                                                       |            |                 |            | 6             | 0        | 0     | 22.19                   | 22.04             | 24.19              | 34.77           | -12.73      |
|                                                       | 23230      | 782             | 16QAM      | 1             | 0        | 0     | 23.09                   | 22.94             | <b>25.09</b>       | 34.77           | -11.83      |
|                                                       |            |                 |            | 6             | 0        | 0     | 21.05                   | 20.90             | 23.05              | 34.77           | -13.87      |
|                                                       | /          | /               | /          | /             | /        | /     | /                       | /                 | /                  | /               | /           |
|                                                       |            |                 |            | /             | /        | /     | /                       | /                 | /                  | /               | /           |

Antenna gain (dBi) 2

| M1 Band 25_Uplink frequency band : 1850 to 1915 MHz |               |                    |            |            |              |       |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------|-------------------------------|--------------------------|------------------------|----------------|
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Index | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                   | 26055         | 1851.5             | QPSK       | 1          | 0            | 0     | 22.62                         | 24.62                    | 33                     | -8.38          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.00                         | 23.00                    | 33                     | -10.00         |
|                                                     | 26365         | 1882.5             | QPSK       | 1          | 0            | 0     | 22.93                         | <b>24.93</b>             | 33                     | -8.07          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.05                         | 23.05                    | 33                     | -9.95          |
|                                                     | 26675         | 1913.5             | QPSK       | 1          | 5            | 1     | 22.63                         | 24.63                    | 33                     | -8.37          |
|                                                     |               |                    |            | 6          | 0            | 1     | 21.01                         | 23.01                    | 33                     | -9.99          |
|                                                     | 26055         | 1851.5             | 16QAM      | 1          | 0            | 0     | 22.06                         | 24.06                    | 33                     | -8.94          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.01                         | 23.01                    | 33                     | -9.99          |
|                                                     | 26365         | 1882.5             | 16QAM      | 1          | 0            | 0     | 22.05                         | 24.05                    | 33                     | -8.95          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.01                         | 23.01                    | 33                     | -9.99          |
|                                                     | 26675         | 1913.5             | 16QAM      | 1          | 5            | 1     | 22.24                         | <b>24.24</b>             | 33                     | -8.76          |
|                                                     |               |                    |            | 6          | 0            | 1     | 20.89                         | 22.89                    | 33                     | -10.11         |
| M1 Band 25_Uplink frequency band : 1850 to 1915 MHz |               |                    |            |            |              |       |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Index | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                   | 26065         | 1852.5             | QPSK       | 1          | 0            | 0     | 22.71                         | 24.71                    | 33                     | -8.29          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.18                         | 24.18                    | 33                     | -8.82          |
|                                                     | 26365         | 1882.5             | QPSK       | 1          | 0            | 0     | 22.78                         | <b>24.78</b>             | 33                     | -8.22          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.14                         | 24.14                    | 33                     | -8.86          |
|                                                     | 26665         | 1912.5             | QPSK       | 1          | 5            | 3     | 22.75                         | 24.75                    | 33                     | -8.25          |
|                                                     |               |                    |            | 6          | 0            | 3     | 20.01                         | 22.01                    | 33                     | -10.99         |
|                                                     | 26065         | 1852.5             | 16QAM      | 1          | 0            | 0     | 23.06                         | 25.06                    | 33                     | -7.94          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.04                         | 23.04                    | 33                     | -9.96          |
|                                                     | 26365         | 1882.5             | 16QAM      | 1          | 0            | 0     | 23.17                         | <b>25.17</b>             | 33                     | -7.83          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.01                         | 23.01                    | 33                     | -9.99          |
|                                                     | 26665         | 1912.5             | 16QAM      | 1          | 5            | 3     | 23.07                         | 25.07                    | 33                     | -7.93          |
|                                                     |               |                    |            | 6          | 0            | 3     | 21.03                         | 23.03                    | 33                     | -9.97          |

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| M1 Band 25_Uplink frequency band : 1850 to 1915 MHz |               |                    |            |            |              |       |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------|-------------------------------|--------------------------|------------------------|----------------|
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Index | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 10                                                  | 26090         | 1855               | QPSK       | 1          | 0            | 0     | 22.77                         | <b>24.77</b>             | 33                     | -8.23          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.14                         | 24.14                    | 33                     | -8.86          |
|                                                     | 26365         | 1882.5             | QPSK       | 1          | 0            | 0     | 22.77                         | <b>24.77</b>             | 33                     | -8.23          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.12                         | 24.12                    | 33                     | -8.88          |
|                                                     | 26640         | 1910               | QPSK       | 1          | 5            | 7     | 22.76                         | 24.76                    | 33                     | -8.24          |
|                                                     |               |                    |            | 6          | 0            | 7     | 22.05                         | 24.05                    | 33                     | -8.95          |
|                                                     | 26090         | 1855               | 16QAM      | 1          | 0            | 0     | 22.16                         | 24.16                    | 33                     | -8.84          |
|                                                     |               |                    |            | 6          | 0            | 0     | 21.09                         | 23.09                    | 33                     | -9.91          |
|                                                     | 26365         | 1882.5             | 16QAM      | 1          | 0            | 0     | 23.14                         | <b>25.14</b>             | 33                     | -7.86          |
|                                                     |               |                    |            | 6          | 0            | 0     | 20.99                         | 22.99                    | 33                     | -10.01         |
|                                                     | 26640         | 1910               | 16QAM      | 1          | 5            | 7     | 23.11                         | 25.11                    | 33                     | -7.89          |
|                                                     |               |                    |            | 6          | 0            | 7     | 20.92                         | 22.92                    | 33                     | -10.08         |
| M1 Band 25_Uplink frequency band : 1850 to 1915 MHz |               |                    |            |            |              |       |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Index | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 15                                                  | 26115         | 1857.5             | QPSK       | 1          | 0            | 0     | 22.66                         | 24.66                    | 33                     | -8.34          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.63                         | 24.63                    | 33                     | -8.37          |
|                                                     | 26365         | 1882.5             | QPSK       | 1          | 0            | 0     | 22.84                         | <b>24.84</b>             | 33                     | -8.16          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.75                         | 24.75                    | 33                     | -8.25          |
|                                                     | 26615         | 1907.5             | QPSK       | 1          | 5            | 11    | 22.80                         | 24.80                    | 33                     | -8.20          |
|                                                     |               |                    |            | 6          | 0            | 11    | 22.66                         | 24.66                    | 33                     | -8.34          |
|                                                     | 26115         | 1857.5             | 16QAM      | 1          | 0            | 0     | 23.14                         | 25.14                    | 33                     | -7.86          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.71                         | 24.71                    | 33                     | -8.29          |
|                                                     | 26365         | 1882.5             | 16QAM      | 1          | 0            | 0     | 23.16                         | <b>25.16</b>             | 33                     | -7.84          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.66                         | 24.66                    | 33                     | -8.34          |
|                                                     | 26615         | 1907.5             | 16QAM      | 1          | 5            | 11    | 23.14                         | 25.14                    | 33                     | -7.86          |
|                                                     |               |                    |            | 6          | 0            | 11    | 22.56                         | 24.56                    | 33                     | -8.44          |
| M1 Band 25_Uplink frequency band : 1850 to 1915 MHz |               |                    |            |            |              |       |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Index | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 20                                                  | 26140         | 1860               | QPSK       | 1          | 0            | 0     | 22.79                         | 24.79                    | 33                     | -8.21          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.67                         | 24.67                    | 33                     | -8.33          |
|                                                     | 26365         | 1882.5             | QPSK       | 1          | 0            | 0     | 22.72                         | 24.72                    | 33                     | -8.28          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.73                         | 24.73                    | 33                     | -8.27          |
|                                                     | 26590         | 1905               | QPSK       | 1          | 5            | 15    | 22.83                         | <b>24.83</b>             | 33                     | -8.17          |
|                                                     |               |                    |            | 6          | 0            | 15    | 22.65                         | 24.65                    | 33                     | -8.35          |
|                                                     | 26140         | 1860               | 16QAM      | 1          | 0            | 0     | 23.17                         | <b>25.17</b>             | 33                     | -7.83          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.74                         | 24.74                    | 33                     | -8.26          |
|                                                     | 26365         | 1882.5             | 16QAM      | 1          | 0            | 0     | 23.15                         | 25.15                    | 33                     | -7.85          |
|                                                     |               |                    |            | 6          | 0            | 0     | 22.65                         | 24.65                    | 33                     | -8.35          |
|                                                     | 26590         | 1905               | 16QAM      | 1          | 5            | 15    | 23.16                         | 25.16                    | 33                     | -7.84          |
|                                                     |               |                    |            | 6          | 0            | 15    | 22.68                         | 24.68                    | 33                     | -8.32          |

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Antenna gain (dBi) 2

| Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                                   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                                        | 26697      | 814.7           | QPSK       | 1       | 0         | 0     | 22.57                   | 22.42             | 24.57              | 50              | -27.58      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.03                   | 20.88             | 23.03              | 50              | -29.12      |
|                                                            | 26740      | 819             | QPSK       | 1       | 0         | 0     | 22.54                   | 22.39             | 24.54              | 50              | -27.61      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.94                   | 20.79             | 22.94              | 50              | -29.21      |
|                                                            | 26783      | 823.3           | QPSK       | 1       | 5         | 0     | 22.87                   | 22.72             | <b>24.87</b>       | 50              | -27.28      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.93                   | 20.78             | 22.93              | 50              | -29.22      |
|                                                            | 26697      | 814.7           | 16QAM      | 1       | 0         | 0     | 22.07                   | 21.92             | 24.07              | 50              | -28.08      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.03                   | 20.88             | 23.03              | 50              | -29.12      |
|                                                            | 26740      | 819             | 16QAM      | 1       | 0         | 0     | 22.05                   | 21.90             | 24.05              | 50              | -28.10      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.06                   | 20.91             | 23.06              | 50              | -29.09      |
|                                                            | 26783      | 823.3           | 16QAM      | 1       | 5         | 0     | 22.35                   | 22.20             | <b>24.35</b>       | 50              | -27.80      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.09                   | 20.94             | 23.09              | 50              | -29.06      |

Antenna gain (dBi) 2

| Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                                   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                          | 26705      | 815.5           | QPSK       | 1       | 0         | 0     | 22.62                   | 22.47             | <b>24.62</b>       | 50              | -27.53      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.99                   | 20.84             | 22.99              | 50              | -29.16      |
|                                                            | 26740      | 819             | QPSK       | 1       | 0         | 0     | 22.59                   | 22.44             | 24.59              | 50              | -27.56      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.02                   | 20.87             | 23.02              | 50              | -29.13      |
|                                                            | 26775      | 822.5           | QPSK       | 1       | 5         | 1     | 22.58                   | 22.43             | 24.58              | 50              | -27.57      |
|                                                            |            |                 |            | 6       | 0         | 1     | 21.01                   | 20.86             | 23.01              | 50              | -29.14      |
|                                                            | 26705      | 815.5           | 16QAM      | 1       | 0         | 0     | 21.99                   | 21.84             | 23.99              | 50              | -28.16      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.96                   | 20.81             | 22.96              | 50              | -29.19      |
|                                                            | 26740      | 819             | 16QAM      | 1       | 0         | 0     | 21.86                   | 21.71             | 23.86              | 50              | -28.29      |
|                                                            |            |                 |            | 6       | 0         | 0     | 22.87                   | 22.72             | <b>24.87</b>       | 50              | -27.28      |
|                                                            | 26775      | 822.5           | 16QAM      | 1       | 5         | 1     | 22.20                   | 22.05             | 24.20              | 50              | -27.95      |
|                                                            |            |                 |            | 6       | 0         | 1     | 20.95                   | 20.80             | 22.95              | 50              | -29.20      |

Antenna gain (dBi) 2

| Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                                   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                          | 26715      | 816.5           | QPSK       | 1       | 0         | 0     | 22.58                   | 22.43             | 24.58              | 50              | -27.57      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.96                   | 21.81             | 23.96              | 50              | -28.19      |
|                                                            | 26740      | 819             | QPSK       | 1       | 0         | 0     | 22.56                   | 22.41             | 24.56              | 50              | -27.59      |
|                                                            |            |                 |            | 6       | 0         | 0     | 21.96                   | 21.81             | 23.96              | 50              | -28.19      |
|                                                            | 26765      | 821.5           | QPSK       | 1       | 5         | 3     | 22.68                   | 22.53             | <b>24.68</b>       | 50              | -27.47      |
|                                                            |            |                 |            | 6       | 0         | 3     | 21.96                   | 21.81             | 23.96              | 50              | -28.19      |
|                                                            | 26715      | 816.5           | 16QAM      | 1       | 0         | 0     | 23.04                   | 22.89             | 25.04              | 50              | -27.11      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.86                   | 20.71             | 22.86              | 50              | -29.29      |
|                                                            | 26740      | 819             | 16QAM      | 1       | 0         | 0     | 23.09                   | 22.94             | <b>25.09</b>       | 50              | -27.06      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.97                   | 20.82             | 22.97              | 50              | -29.18      |
|                                                            | 26765      | 821.5           | 16QAM      | 1       | 5         | 3     | 22.98                   | 22.83             | 24.98              | 50              | -27.17      |
|                                                            |            |                 |            | 6       | 0         | 3     | 20.87                   | 20.72             | 22.87              | 50              | -29.28      |

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Antenna gain (dBi) 2

| Part 90S_M1 Band 26 Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                                   | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                         | 26740      | 819             | QPSK       | 1       | 0         | 0     | 22.71                   | 22.56             | 24.71              | 50              | -25.29      |
|                                                            |            |                 |            | 6       | 0         | 0     | 22.07                   | 21.92             | 24.07              | 50              | -25.93      |
|                                                            | 26740      | 819             | 16QAM      | 1       | 0         | 0     | 22.98                   | 22.83             | 24.98              | 50              | -25.02      |
|                                                            |            |                 |            | 6       | 0         | 0     | 20.95                   | 20.80             | 22.95              | 50              | -27.05      |
|                                                            | /          | /               | /          | /       | /         | /     | /                       | /                 | /                  | /               | /           |
|                                                            |            |                 |            | /       | /         | /     | /                       | /                 | /                  | /               | /           |

Antenna gain (dBi) 2

| M1 Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                               | 26797      | 824.7           | QPSK       | 1       | 0         | 0     | 22.52                   | 22.37             | 24.52              | 38.45           | -16.08      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.07                   | 20.92             | 23.07              | 38.45           | -17.53      |
|                                                   | 26915      | 836.5           | QPSK       | 1       | 0         | 0     | 22.95                   | 22.80             | 24.95              | 38.45           | -15.65      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.03                   | 20.88             | 23.03              | 38.45           | -17.57      |
|                                                   | 27033      | 848.3           | QPSK       | 1       | 5         | 0     | 22.53                   | 22.38             | 24.53              | 38.45           | -16.07      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.10                   | 20.95             | 23.10              | 38.45           | -17.50      |
|                                                   | 26797      | 824.7           | 16QAM      | 1       | 0         | 0     | 22.05                   | 21.90             | 24.05              | 38.45           | -16.55      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.95                   | 20.80             | 22.95              | 38.45           | -17.65      |
|                                                   | 26915      | 836.5           | 16QAM      | 1       | 0         | 0     | 22.07                   | 21.92             | 24.07              | 38.45           | -16.53      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.95                   | 20.80             | 22.95              | 38.45           | -17.65      |
|                                                   | 27033      | 848.3           | 16QAM      | 1       | 5         | 0     | 22.48                   | 22.33             | 24.48              | 38.45           | -16.12      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.05                   | 20.90             | 23.05              | 38.45           | -17.55      |

Antenna gain (dBi) 2

| M1 Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3                                                 | 26805      | 825.5           | QPSK       | 1       | 0         | 0     | 22.57                   | 22.42             | 24.57              | 38.45           | -16.03      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.87                   | 20.72             | 22.87              | 38.45           | -17.73      |
|                                                   | 26915      | 836.5           | QPSK       | 1       | 0         | 0     | 22.69                   | 22.54             | 24.69              | 38.45           | -15.91      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.01                   | 20.86             | 23.01              | 38.45           | -17.59      |
|                                                   | 27025      | 847.5           | QPSK       | 1       | 5         | 1     | 22.54                   | 22.39             | 24.54              | 38.45           | -16.06      |
|                                                   |            |                 |            | 6       | 0         | 1     | 20.99                   | 20.84             | 22.99              | 38.45           | -17.61      |
|                                                   | 26805      | 825.5           | 16QAM      | 1       | 0         | 0     | 21.96                   | 21.81             | 23.96              | 38.45           | -16.64      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.98                   | 20.83             | 22.98              | 38.45           | -17.62      |
|                                                   | 26915      | 836.5           | 16QAM      | 1       | 0         | 0     | 21.89                   | 21.74             | 23.89              | 38.45           | -16.71      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.89                   | 20.74             | 22.89              | 38.45           | -17.71      |
|                                                   | 27025      | 847.5           | 16QAM      | 1       | 5         | 1     | 22.25                   | 22.10             | 24.25              | 38.45           | -16.35      |
|                                                   |            |                 |            | 6       | 0         | 1     | 21.08                   | 20.93             | 23.08              | 38.45           | -17.52      |

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Antenna gain (dBi)

2

| M1 Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                 | 26815      | 826.5           | QPSK       | 1       | 0         | 0     | 22.50                   | 22.35             | 24.50              | 38.45           | -16.10      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.97                   | 21.82             | 23.97              | 38.45           | -16.63      |
|                                                   | 26915      | 836.5           | QPSK       | 1       | 0         | 0     | 22.61                   | 22.46             | 24.61              | 38.45           | -15.99      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.96                   | 21.81             | 23.96              | 38.45           | -16.64      |
|                                                   | 27015      | 846.5           | QPSK       | 1       | 5         | 3     | 22.78                   | 22.63             | <b>24.78</b>       | 38.45           | -15.82      |
|                                                   |            |                 |            | 6       | 0         | 3     | 21.97                   | 21.82             | 23.97              | 38.45           | -16.63      |
|                                                   | 26815      | 826.5           | 16QAM      | 1       | 0         | 0     | 22.97                   | 22.82             | 24.97              | 38.45           | -15.63      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.89                   | 20.74             | 22.89              | 38.45           | -17.71      |
|                                                   | 26915      | 836.5           | 16QAM      | 1       | 0         | 0     | 22.96                   | 22.81             | 24.96              | 38.45           | -15.64      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.89                   | 20.74             | 22.89              | 38.45           | -17.71      |
|                                                   | 27015      | 846.5           | 16QAM      | 1       | 5         | 3     | 23.09                   | 22.94             | <b>25.09</b>       | 38.45           | -15.51      |
|                                                   |            |                 |            | 6       | 0         | 3     | 20.90                   | 20.75             | 22.90              | 38.45           | -17.70      |

Antenna gain (dBi)

2

| M1 Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                | 26840      | 829             | QPSK       | 1       | 0         | 0     | 22.56                   | 22.41             | 24.56              | 38.45           | -13.89      |
|                                                   |            |                 |            | 6       | 0         | 0     | 21.97                   | 21.82             | 23.97              | 38.45           | -14.48      |
|                                                   | 26915      | 836.5           | QPSK       | 1       | 0         | 0     | 22.55                   | 22.40             | 24.55              | 38.45           | -13.90      |
|                                                   |            |                 |            | 6       | 0         | 0     | 22.14                   | 21.99             | 24.14              | 38.45           | -14.31      |
|                                                   | 26990      | 844             | QPSK       | 1       | 5         | 7     | 22.80                   | 22.65             | <b>24.80</b>       | 38.45           | -13.65      |
|                                                   |            |                 |            | 6       | 0         | 7     | 22.13                   | 21.98             | 24.13              | 38.45           | -14.32      |
|                                                   | 26840      | 829             | 16QAM      | 1       | 0         | 0     | 23.02                   | 22.87             | 25.02              | 38.45           | -13.43      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.88                   | 20.73             | 22.88              | 38.45           | -15.57      |
|                                                   | 26915      | 836.5           | 16QAM      | 1       | 0         | 0     | 23.05                   | 22.90             | <b>25.05</b>       | 38.45           | -13.40      |
|                                                   |            |                 |            | 6       | 0         | 0     | 20.96                   | 20.81             | 22.96              | 38.45           | -15.49      |
|                                                   | 26990      | 844             | 16QAM      | 1       | 5         | 7     | 22.77                   | 22.62             | 24.77              | 38.45           | -13.68      |
|                                                   |            |                 |            | 6       | 0         | 7     | 22.08                   | 21.93             | 24.08              | 38.45           | -14.37      |

Antenna gain (dBi)

2

| M1 Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |       |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|-------------------|--------------------|-----------------|-------------|
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 15                                                | 26865      | 831.5           | QPSK       | 1       | 0         | 0     | 22.62                   | 22.47             | 24.62              | 38.45           | -13.83      |
|                                                   |            |                 |            | 6       | 0         | 0     | 22.51                   | 22.36             | 24.51              | 38.45           | -13.94      |
|                                                   | 26915      | 836.5           | QPSK       | 1       | 0         | 0     | 22.55                   | 22.40             | 24.55              | 38.45           | -13.90      |
|                                                   |            |                 |            | 6       | 0         | 0     | 22.63                   | 22.48             | 24.63              | 38.45           | -13.82      |
|                                                   | 26965      | 841.5           | QPSK       | 1       | 5         | 11    | 22.78                   | 22.63             | <b>24.78</b>       | 38.45           | -13.67      |
|                                                   |            |                 |            | 6       | 0         | 11    | 22.62                   | 22.47             | 24.62              | 38.45           | -13.83      |
|                                                   | 26865      | 831.5           | 16QAM      | 1       | 0         | 0     | 23.15                   | 23.00             | <b>25.15</b>       | 38.45           | -13.30      |
|                                                   |            |                 |            | 6       | 0         | 0     | 22.56                   | 22.41             | 24.56              | 38.45           | -13.89      |
|                                                   | 26915      | 836.5           | 16QAM      | 1       | 0         | 0     | 23.01                   | 22.86             | 25.01              | 38.45           | -13.44      |
|                                                   |            |                 |            | 6       | 0         | 0     | 22.45                   | 22.30             | 24.45              | 38.45           | -14.00      |
|                                                   | 26965      | 841.5           | 16QAM      | 1       | 5         | 11    | 22.99                   | 22.84             | 24.99              | 38.45           | -13.46      |
|                                                   |            |                 |            | 6       | 0         | 11    | 22.55                   | 22.40             | 24.55              | 38.45           | -13.90      |

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Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4                                                 | 131979     | 1710.7          | QPSK       | 1       | 0         | 0     | 22.99                   | 24.99              | 30               | -5.01       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.40                   | 23.40              | 30               | -6.60       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 23.16                   | <b>25.16</b>       | 30               | -4.84       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.27                   | 23.27              | 30               | -6.73       |
|                                                     | 132665     | 1779.3          | QPSK       | 1       | 5         | 0     | 22.99                   | 24.99              | 30               | -5.01       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.39                   | 23.39              | 30               | -6.61       |
|                                                     | 131979     | 1710.7          | 16QAM      | 1       | 0         | 0     | 22.51                   | 24.51              | 30               | -5.49       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.56                   | 23.56              | 30               | -6.44       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 22.36                   | 24.36              | 30               | -5.64       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.34                   | 23.34              | 30               | -6.66       |
|                                                     | 132665     | 1779.3          | 16QAM      | 1       | 5         | 0     | 22.90                   | <b>24.90</b>       | 30               | -5.10       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.56                   | 23.56              | 30               | -6.44       |

Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                   | 131987     | 1711.5          | QPSK       | 1       | 0         | 0     | 23.05                   | 25.05              | 30               | -4.95       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.39                   | 23.39              | 30               | -6.61       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 22.89                   | 24.89              | 30               | -5.11       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.21                   | 23.21              | 30               | -6.79       |
|                                                     | 132657     | 1778.5          | QPSK       | 1       | 5         | 1     | 23.08                   | <b>25.08</b>       | 30               | -4.92       |
|                                                     |            |                 |            | 6       | 0         | 1     | 21.46                   | 23.46              | 30               | -6.54       |
|                                                     | 131987     | 1711.5          | 16QAM      | 1       | 0         | 0     | 22.34                   | 24.34              | 30               | -5.66       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.52                   | 23.52              | 30               | -6.48       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 22.12                   | 24.12              | 30               | -5.88       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.22                   | 23.22              | 30               | -6.78       |
|                                                     | 132657     | 1778.5          | 16QAM      | 1       | 5         | 1     | 21.49                   | 23.49              | 30               | -6.51       |
|                                                     |            |                 |            | 6       | 0         | 1     | 22.68                   | <b>24.68</b>       | 30               | -5.32       |

Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                   | 131997     | 1712.5          | QPSK       | 1       | 0         | 0     | 22.98                   | 24.98              | 30               | -5.02       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.38                   | 24.38              | 30               | -5.62       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 22.81                   | 24.81              | 30               | -5.19       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.17                   | 24.17              | 30               | -5.83       |
|                                                     | 132647     | 1777.5          | QPSK       | 1       | 5         | 3     | 23.14                   | <b>25.14</b>       | 30               | -4.86       |
|                                                     |            |                 |            | 6       | 0         | 3     | 22.40                   | 24.40              | 30               | -5.60       |
|                                                     | 131997     | 1712.5          | 16QAM      | 1       | 0         | 0     | 23.48                   | <b>25.48</b>       | 30               | -4.52       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.44                   | 23.44              | 30               | -6.56       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 23.24                   | 25.24              | 30               | -4.76       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.03                   | 23.03              | 30               | -6.97       |
|                                                     | 132647     | 1777.5          | 16QAM      | 1       | 5         | 3     | 23.47                   | 25.47              | 30               | -4.53       |
|                                                     |            |                 |            | 6       | 0         | 3     | 21.28                   | 23.28              | 30               | -6.72       |

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Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 Mhz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                  | 132022     | 1715            | QPSK       | 1       | 0         | 0     | 22.98                   | 24.98              | 30               | -5.02       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.45                   | 24.45              | 30               | -5.55       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 22.95                   | 24.95              | 30               | -5.05       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.20                   | 24.20              | 30               | -5.80       |
|                                                     | 132622     | 1775            | QPSK       | 1       | 5         | 7     | 23.08                   | <b>25.08</b>       | 30               | -4.92       |
|                                                     |            |                 |            | 6       | 0         | 7     | 22.54                   | 24.54              | 30               | -5.46       |
|                                                     | 132022     | 1715            | 16QAM      | 1       | 0         | 0     | 23.45                   | 25.45              | 30               | -4.55       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.44                   | 23.44              | 30               | -6.56       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 23.20                   | 25.20              | 30               | -4.80       |
|                                                     |            |                 |            | 6       | 0         | 0     | 21.21                   | 23.21              | 30               | -6.79       |
|                                                     | 132622     | 1775            | 16QAM      | 1       | 5         | 7     | 23.47                   | <b>25.47</b>       | 30               | -4.53       |
|                                                     |            |                 |            | 6       | 0         | 7     | 21.29                   | 23.29              | 30               | -6.71       |

Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 Mhz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                  | 132047     | 1717.5          | QPSK       | 1       | 0         | 0     | 23.03                   | 25.03              | 30               | -4.97       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.97                   | 24.97              | 30               | -5.03       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 22.92                   | 24.92              | 30               | -5.08       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.76                   | 24.76              | 30               | -5.24       |
|                                                     | 132597     | 1772.5          | QPSK       | 1       | 5         | 11    | 23.17                   | <b>25.17</b>       | 30               | -4.83       |
|                                                     |            |                 |            | 6       | 0         | 11    | 23.09                   | 25.09              | 30               | -4.91       |
|                                                     | 132047     | 1717.5          | 16QAM      | 1       | 0         | 0     | 23.41                   | 25.41              | 30               | -4.59       |
|                                                     |            |                 |            | 6       | 0         | 0     | 23.02                   | 25.02              | 30               | -4.98       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 23.30                   | 25.30              | 30               | -4.70       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.85                   | 24.85              | 30               | -5.15       |
|                                                     | 132597     | 1772.5          | 16QAM      | 1       | 5         | 11    | 23.48                   | <b>25.48</b>       | 30               | -4.52       |
|                                                     |            |                 |            | 6       | 0         | 11    | 23.20                   | 25.20              | 30               | -4.80       |

Antenna gain (dBi) 2

| M1 Band 66_Uplink frequency band : 1710 to 1780 Mhz |            |                 |            |         |           |       |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------|-------------------------|--------------------|------------------|-------------|
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Index | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                  | 132072     | 1720            | QPSK       | 1       | 0         | 0     | 23.13                   | 25.13              | 30               | -4.87       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.99                   | 24.99              | 30               | -5.01       |
|                                                     | 132322     | 1745            | QPSK       | 1       | 0         | 0     | 22.79                   | 24.79              | 30               | -5.21       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.72                   | 24.72              | 30               | -5.28       |
|                                                     | 132572     | 1770            | QPSK       | 1       | 5         | 15    | 23.12                   | 25.12              | 30               | -4.88       |
|                                                     |            |                 |            | 6       | 0         | 15    | 23.17                   | <b>25.17</b>       | 30               | -4.83       |
|                                                     | 132072     | 1720            | 16QAM      | 1       | 0         | 0     | 23.43                   | 25.43              | 30               | -4.57       |
|                                                     |            |                 |            | 6       | 0         | 0     | 23.04                   | 25.04              | 30               | -4.96       |
|                                                     | 132322     | 1745            | 16QAM      | 1       | 0         | 0     | 23.19                   | 25.19              | 30               | -4.81       |
|                                                     |            |                 |            | 6       | 0         | 0     | 22.76                   | 24.76              | 30               | -5.24       |
|                                                     | 132572     | 1770            | 16QAM      | 1       | 5         | 15    | 23.51                   | <b>25.51</b>       | 30               | -4.49       |
|                                                     |            |                 |            | 6       | 0         | 15    | 23.01                   | 25.01              | 30               | -4.99       |

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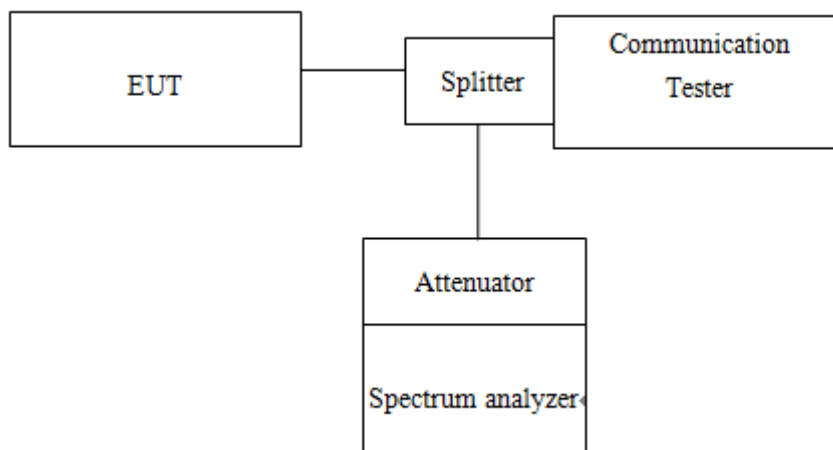
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## 8 OCCUPIED BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2 Test Set-up



### 8.3 Measurement Procedure

#### **99% &26dB Bandwidth with detector peak**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

#### **99% Bandwidth with detector sample**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

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## 8.4 Measurement Result

| CAT-M1 BAND 2 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1850.7                                  | 18607 | 1.0745        | 1.0754        | 1.276          | 1.282        |
| 1880.0                                  | 18900 | <b>1.0758</b> | 1.0768        | 1.279          | <b>1.288</b> |
| 1909.3                                  | 19193 | 1.0739        | <b>1.0769</b> | <b>1.280</b>   | 1.276        |

| CAT-M1 BAND 2 Channel bandwidth: 3MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1851.5                                | 18615 | <b>1.0758</b> | 1.0743        | 1.286          | 1.275        |
| 1880.0                                | 18900 | 1.0735        | 1.0769        | <b>1.295</b>   | 1.281        |
| 1908.5                                | 19185 | 1.0755        | <b>1.0780</b> | 1.279          | <b>1.292</b> |

| CAT-M1 BAND 2 Channel bandwidth: 5MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1852.5                                | 18625 | <b>1.0866</b> | <b>1.0779</b> | 1.284          | 1.291        |
| 1880.0                                | 18900 | 1.0774        | 1.0772        | 1.282          | 1.279        |
| 1907.5                                | 19175 | 1.0777        | <b>1.0779</b> | <b>1.301</b>   | <b>1.294</b> |

| CAT-M1 BAND 2 Channel bandwidth: 10MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1855.0                                 | 18650 | 1.0729        | 1.0799        | 1.273          | 1.294        |
| 1880.0                                 | 18900 | 1.0736        | 1.0835        | 1.274          | <b>1.296</b> |
| 1905.0                                 | 19150 | <b>1.0861</b> | <b>1.0857</b> | <b>1.294</b>   | 1.293        |

| CAT-M1 BAND 2 Channel bandwidth: 15MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1857.5                                 | 18675 | <b>1.0816</b> | <b>1.0811</b> | <b>1.300</b>   | 1.280        |
| 1880.0                                 | 18900 | 1.0790        | 1.0785        | 1.277          | 1.289        |
| 1902.5                                 | 19125 | 1.0733        | <b>1.0811</b> | 1.268          | <b>1.295</b> |

| CAT-M1 BAND 2 Channel bandwidth: 20MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1860.0                                 | 18700 | 1.0740        | 1.0768        | <b>1.292</b>   | 1.293        |
| 1880.0                                 | 18900 | 1.0764        | <b>1.0869</b> | 1.284          | <b>1.313</b> |
| 1900.0                                 | 19100 | <b>1.0844</b> | 1.0794        | 1.284          | 1.294        |

| CAT-M1 BAND 4 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1710.7                                  | 19957 | 1.0734        | <b>1.0772</b> | <b>1.284</b>   | 1.275        |
| 1732.5                                  | 20175 | 1.0745        | 1.0734        | 1.283          | <b>1.285</b> |
| 1754.3                                  | 20393 | <b>1.0774</b> | 1.0754        | 1.281          | 1.277        |

| CAT-M1 BAND 4 Channel bandwidth: 3MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1711.5                                | 19965 | 1.0758        | 1.0754        | <b>1.286</b>   | <b>1.297</b> |
| 1732.5                                | 20175 | 1.0747        | 1.0737        | 1.281          | 1.269        |
| 1753.5                                | 20385 | <b>1.0773</b> | <b>1.0771</b> | 1.283          | 1.284        |

| CAT-M1 BAND 4 Channel bandwidth: 5MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1712.5                                | 19975 | <b>1.0859</b> | <b>1.0800</b> | <b>1.289</b>   | 1.291        |
| 1732.5                                | 20175 | 1.0816        | 1.0789        | 1.282          | 1.277        |
| 1752.5                                | 20375 | 1.0760        | 1.0784        | 1.288          | <b>1.302</b> |

| CAT-M1 BAND 4 Channel bandwidth: 10MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1715.0                                 | 20000 | 1.0730        | 1.0779        | 1.277          | 1.301        |
| 1732.5                                 | 20175 | 1.0758        | <b>1.0860</b> | 1.260          | <b>1.302</b> |
| 1750.0                                 | 20350 | <b>1.0882</b> | 1.0815        | <b>1.302</b>   | 1.274        |

| CAT-M1 BAND 4 Channel bandwidth: 15MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1717.5                                 | 20025 | <b>1.0859</b> | <b>1.0842</b> | <b>1.297</b>   | 1.283        |
| 1732.5                                 | 20175 | 1.0768        | 1.0796        | 1.283          | <b>1.295</b> |
| 1747.5                                 | 20325 | 1.0728        | 1.0764        | 1.285          | 1.293        |

| CAT-M1 BAND 4 Channel bandwidth: 20MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1720.0                                 | 20050 | 1.0794        | 1.0789        | 1.292          | 1.290        |
| 1732.5                                 | 20175 | 1.0736        | <b>1.0836</b> | 1.261          | 1.299        |
| 1745.0                                 | 20300 | <b>1.0880</b> | 1.0820        | <b>1.293</b>   | <b>1.302</b> |

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| CAT-M1 BAND 5 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 824.7                                   | 20407 | 1.0769        | 1.0739        | <b>1.287</b>   | 1.279        |
| 836.5                                   | 20525 | 1.0738        | <b>1.0773</b> | 1.274          | 1.277        |
| 848.3                                   | 20643 | <b>1.0772</b> | 1.0763        | 1.281          | <b>1.291</b> |

| CAT-M1 BAND 5 Channel bandwidth: 3MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 825.5                                 | 20415 | <b>1.0751</b> | 1.0755        | 1.289          | 1.288        |
| 836.5                                 | 20525 | 1.0745        | <b>1.0756</b> | <b>1.292</b>   | <b>1.293</b> |
| 847.5                                 | 20635 | 1.0744        | 1.0747        | 1.285          | 1.284        |

| CAT-M1 BAND 5 Channel bandwidth: 5MHz |       |               |               |                |              |
|---------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 826.5                                 | 20425 | 1.0756        | <b>1.0806</b> | <b>1.290</b>   | <b>1.293</b> |
| 836.5                                 | 20525 | 1.0802        | 1.0785        | 1.281          | 1.283        |
| 846.5                                 | 20625 | <b>1.0819</b> | 1.0783        | 1.279          | 1.282        |

| CAT-M1 BAND 5 Channel bandwidth: 10MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 829.0                                  | 20450 | 1.0717        | 1.0798        | 1.285          | <b>1.297</b> |
| 836.5                                  | 20525 | 1.0769        | 1.0825        | 1.270          | 1.286        |
| 844.0                                  | 20600 | <b>1.0808</b> | <b>1.0865</b> | <b>1.301</b>   | 1.294        |

| CAT-M1 BAND 12 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                           | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                          |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 699.7                                    | 23017 | <b>1.0733</b> | <b>1.0746</b> | <b>1.295</b>   | 1.277        |
| 707.5                                    | 23095 | 1.0727        | 1.0727        | 1.280          | <b>1.279</b> |
| 715.3                                    | 23173 | 1.0706        | 1.0745        | 1.279          | 1.275        |

| CAT-M1 BAND 12 Channel bandwidth: 3MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 700.5                                  | 23025 | <b>1.0756</b> | <b>1.0758</b> | <b>1.283</b>   | 1.281        |
| 707.5                                  | 23095 | 1.0753        | 1.0749        | 1.269          | <b>1.300</b> |
| 714.5                                  | 23165 | 1.0718        | 1.0744        | 1.277          | 1.278        |

| CAT-M1 BAND 12 Channel bandwidth: 5MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 701.5                                  | 23035 | 1.0801        | 1.0791        | 1.292          | 1.286        |
| 707.5                                  | 23095 | <b>1.0823</b> | <b>1.0792</b> | <b>1.293</b>   | <b>1.295</b> |
| 713.5                                  | 23155 | 1.0816        | 1.0768        | 1.292          | 1.289        |

| CAT-M1 BAND 12 Channel bandwidth: 10MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 704.0                                   | 23060 | 1.0713        | 1.0788        | 1.244          | <b>1.293</b> |
| 707.5                                   | 23095 | 1.0727        | <b>1.0846</b> | 1.258          | 1.289        |
| 711.0                                   | 23130 | <b>1.0866</b> | <b>1.0846</b> | <b>1.308</b>   | 1.292        |

| CAT-M1 BAND 13 Channel bandwidth: 5MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 779.5                                  | 23205 | 1.0823        | <b>1.0806</b> | <b>1.295</b>   | 1.292        |
| 782.0                                  | 23230 | <b>1.0848</b> | 1.0783        | 1.282          | 1.288        |
| 784.5                                  | 23255 | 1.0828        | 1.0800        | 1.279          | <b>1.296</b> |

| CAT-M1 BAND 13 Channel bandwidth: 10MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 782.0                                   | 23230 | <b>1.0785</b> | <b>1.0865</b> | <b>1.262</b>   | <b>1.305</b> |

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| CAT-M1 BAND 25 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                           | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                          |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1850.7                                   | 26047 | 1.0752        | 1.0765        | 1.277          | <b>1.298</b> |
| 1882.5                                   | 26365 | 1.0764        | 1.0751        | 1.277          | 1.273        |
| 1914.3                                   | 26683 | <b>1.0768</b> | <b>1.0780</b> | <b>1.279</b>   | 1.283        |

| CAT-M1 BAND 25 Channel bandwidth: 5MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1852.5                                 | 26065 | <b>1.0902</b> | 1.0789        | <b>1.296</b>   | <b>1.300</b> |
| 1882.5                                 | 26365 | 1.0782        | <b>1.0805</b> | 1.293          | 1.292        |
| 1912.5                                 | 26665 | 1.0845        | 1.0794        | 1.291          | <b>1.300</b> |

| CAT-M1 BAND 25 Channel bandwidth: 15MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1857.5                                  | 26115 | <b>1.0890</b> | <b>1.0848</b> | <b>1.298</b>   | <b>1.295</b> |
| 1882.5                                  | 26365 | 1.0766        | 1.0820        | 1.275          | 1.284        |
| 1907.5                                  | 26615 | 1.0738        | 1.0814        | 1.270          | 1.293        |

| CAT-M1 BAND 26 for part 90S Channel bandwidth: 1.4MHz |       |               |               |                |              |
|-------------------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                                        | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                                       |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 814.7                                                 | 26697 | 1.0716        | 1.0717        | 1.283          | <b>1.291</b> |
| 819.0                                                 | 26740 | 1.0743        | 1.0737        | 1.287          | 1.261        |
| 823.3                                                 | 26783 | <b>1.0772</b> | <b>1.0788</b> | <b>1.291</b>   | 1.282        |

| CAT-M1 BAND 26 for part 90S Channel bandwidth: 5MHz |       |               |               |                |              |
|-----------------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                                      | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                                     |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 816.5                                               | 26715 | 1.0810        | <b>1.0801</b> | 1.274          | 1.285        |
| 819.0                                               | 26740 | 1.0787        | 1.0782        | <b>1.292</b>   | 1.279        |
| 821.5                                               | 26765 | <b>1.0835</b> | 1.0766        | <b>1.292</b>   | <b>1.292</b> |

| CAT-M1 BAND 25 Channel bandwidth: 3MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1851.5                                 | 26055 | 1.0738        | 1.0766        | 1.285          | 1.279        |
| 1882.5                                 | 26365 | <b>1.0772</b> | 1.0774        | <b>1.290</b>   | 1.279        |
| 1913.5                                 | 26675 | 1.0748        | <b>1.0779</b> | 1.284          | <b>1.289</b> |

| CAT-M1 BAND 25 Channel bandwidth: 10MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1855.0                                  | 26090 | 1.0728        | 1.0815        | 1.279          | <b>1.303</b> |
| 1882.5                                  | 26365 | 1.0729        | <b>1.0859</b> | 1.259          | 1.286        |
| 1910.0                                  | 26640 | <b>1.0802</b> | 1.0835        | <b>1.294</b>   | 1.280        |

| CAT-M1 BAND 25 Channel bandwidth: 20MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1860.0                                  | 26140 | 1.0794        | 1.0790        | <b>1.316</b>   | 1.288        |
| 1882.5                                  | 26365 | 1.0736        | <b>1.0838</b> | 1.271          | 1.297        |
| 1905.0                                  | 26590 | <b>1.0865</b> | 1.0788        | 1.292          | <b>1.304</b> |

| CAT-M1 BAND 26 for part 90S Channel bandwidth: 3MHz |       |               |               |                |              |
|-----------------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                                      | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                                     |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 815.5                                               | 26705 | 1.0739        | 1.0742        | 1.277          | 1.293        |
| 819.0                                               | 26740 | 1.0714        | 1.0737        | <b>1.282</b>   | 1.293        |
| 822.5                                               | 26775 | <b>1.0740</b> | <b>1.0769</b> | 1.273          | <b>1.297</b> |

| CAT-M1 BAND 26 for part 90S Channel bandwidth: 10MHz |       |               |               |                |              |
|------------------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                                       | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                                      |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 819.0                                                | 26740 | <b>1.0724</b> | <b>1.0826</b> | <b>1.269</b>   | <b>1.298</b> |

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| CAT-M1 BAND 26 Channel bandwidth: 1.4MHz |       |               |               |                |              |
|------------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                           | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                          |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 824.7                                    | 26797 | <b>1.0791</b> | 1.0743        | 1.279          | 1.279        |
| 836.5                                    | 26915 | 1.0755        | <b>1.0747</b> | 1.282          | <b>1.290</b> |
| 848.3                                    | 27033 | 1.0767        | 1.0726        | <b>1.285</b>   | 1.287        |

| CAT-M1 BAND 26 Channel bandwidth: 3MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 825.5                                  | 26805 | 1.0724        | <b>1.0757</b> | 1.281          | 1.276        |
| 836.5                                  | 26915 | 1.0723        | 1.0755        | <b>1.284</b>   | 1.292        |
| 847.5                                  | 27025 | <b>1.0725</b> | 1.0754        | 1.274          | <b>1.297</b> |

| CAT-M1 BAND 26 Channel bandwidth: 5MHz |       |               |               |                |              |
|----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 826.5                                  | 26815 | <b>1.0872</b> | <b>1.0798</b> | <b>1.298</b>   | 1.286        |
| 836.5                                  | 26915 | 1.0801        | 1.0788        | 1.292          | 1.300        |
| 846.5                                  | 27015 | 1.0822        | 1.0763        | 1.279          | <b>1.303</b> |

| CAT-M1 BAND 26 Channel bandwidth: 10MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 829.0                                   | 26840 | 1.0682        | 1.0796        | 1.279          | <b>1.308</b> |
| 836.5                                   | 26915 | 1.0723        | <b>1.0863</b> | 1.260          | 1.286        |
| 844.0                                   | 26990 | <b>1.0818</b> | 1.0852        | <b>1.285</b>   | 1.286        |

| CAT-M1 BAND 26 Channel bandwidth: 15MHz |       |               |               |                |              |
|-----------------------------------------|-------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH    | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |       | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 831.5                                   | 26865 | <b>1.0902</b> | 1.0810        | 1.288          | 1.305        |
| 836.5                                   | 26915 | 1.0786        | <b>1.0837</b> | <b>1.289</b>   | 1.292        |
| 841.5                                   | 26965 | 1.0719        | 1.0814        | 1.271          | <b>1.324</b> |

| CAT-M1 BAND 66 Channel bandwidth: 1.4MHz |        |               |               |                |              |
|------------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                           | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                          |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1710.7                                   | 131979 | 1.0723        | 1.0754        | 1.279          | 1.276        |
| 1745.0                                   | 132322 | <b>1.0740</b> | <b>1.0772</b> | <b>1.286</b>   | 1.274        |
| 1779.3                                   | 132665 | 1.0731        | 1.0761        | 1.270          | <b>1.293</b> |

| CAT-M1 BAND 66 Channel bandwidth: 3MHz |        |               |               |                |              |
|----------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1711.5                                 | 131987 | 1.0724        | 1.0766        | 1.286          | 1.280        |
| 1745.0                                 | 132322 | <b>1.0765</b> | 1.0775        | <b>1.287</b>   | <b>1.295</b> |
| 1778.5                                 | 132657 | 1.0751        | <b>1.0785</b> | 1.275          | 1.274        |

| CAT-M1 BAND 66 Channel bandwidth: 5MHz |        |               |               |                |              |
|----------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                         | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                        |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1712.5                                 | 131997 | <b>1.0827</b> | <b>1.0824</b> | <b>1.297</b>   | 1.296        |
| 1745.0                                 | 132322 | 1.0826        | 1.0796        | 1.287          | 1.299        |
| 1777.5                                 | 132647 | 1.0813        | 1.0819        | 1.290          | <b>1.306</b> |

| CAT-M1 BAND 66 Channel bandwidth: 10MHz |        |               |               |                |              |
|-----------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1715.0                                  | 132022 | 1.0716        | 1.0793        | 1.279          | 1.298        |
| 1745.0                                  | 132322 | 1.0698        | 1.0843        | 1.268          | <b>1.305</b> |
| 1775.0                                  | 132622 | <b>1.0888</b> | <b>1.0844</b> | <b>1.302</b>   | 1.288        |

| CAT-M1 BAND 66 Channel bandwidth: 15MHz |        |               |               |                |              |
|-----------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1717.5                                  | 132047 | 1.0793        | <b>1.0872</b> | <b>1.295</b>   | 1.287        |
| 1745.0                                  | 132322 | <b>1.0801</b> | 1.0797        | 1.286          | 1.299        |
| 1772.5                                  | 132597 | 1.0711        | 1.0761        | 1.282          | <b>1.304</b> |

| CAT-M1 BAND 66 Channel bandwidth: 20MHz |        |               |               |                |              |
|-----------------------------------------|--------|---------------|---------------|----------------|--------------|
| Freq.<br>(MHz)                          | CH     | 99% BW (MHz)  |               | 26 dB BW (MHz) |              |
|                                         |        | QPSK          | 16QAM         | QPSK           | 16QAM        |
| 1720.0                                  | 132072 | <b>1.0810</b> | 1.0797        | <b>1.300</b>   | 1.285        |
| 1745.0                                  | 132322 | 1.0758        | <b>1.0859</b> | 1.265          | 1.292        |
| 1770.0                                  | 132572 | 1.0786        | 1.0790        | 1.291          | <b>1.295</b> |

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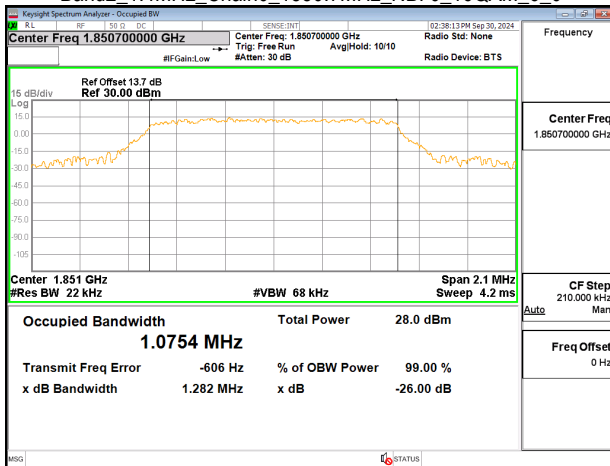
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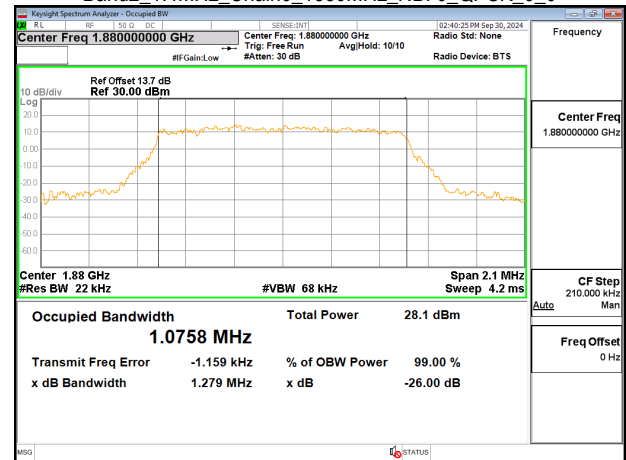
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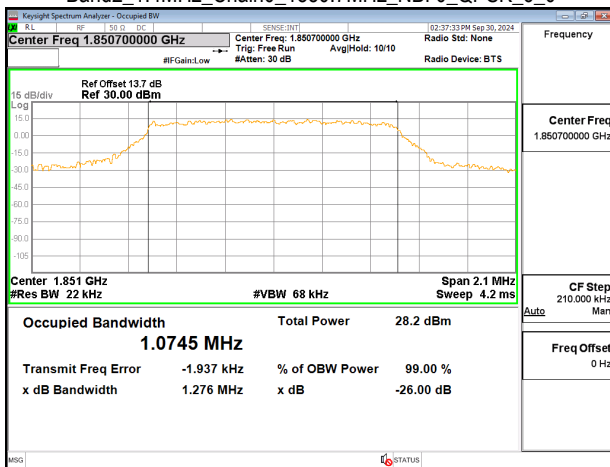
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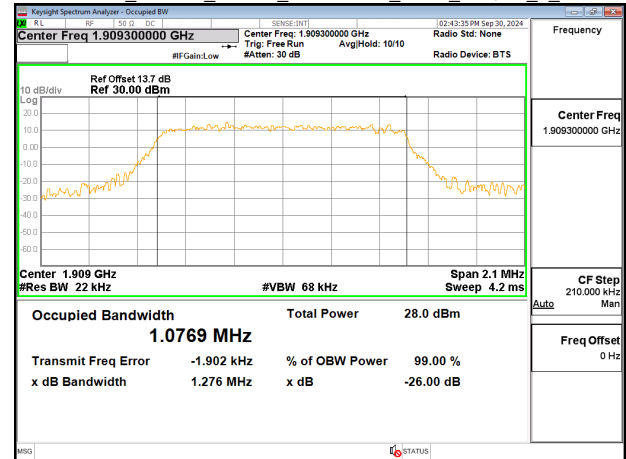
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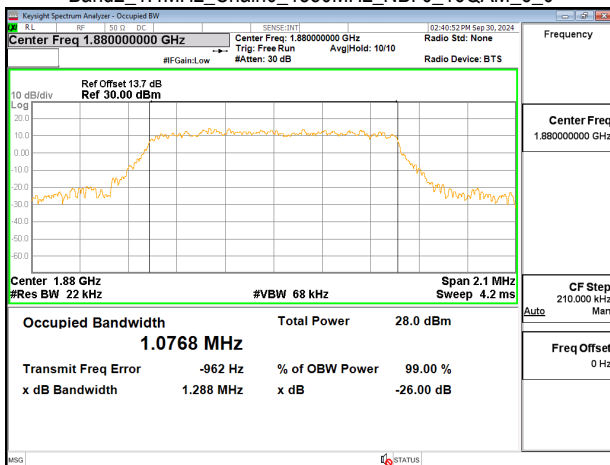
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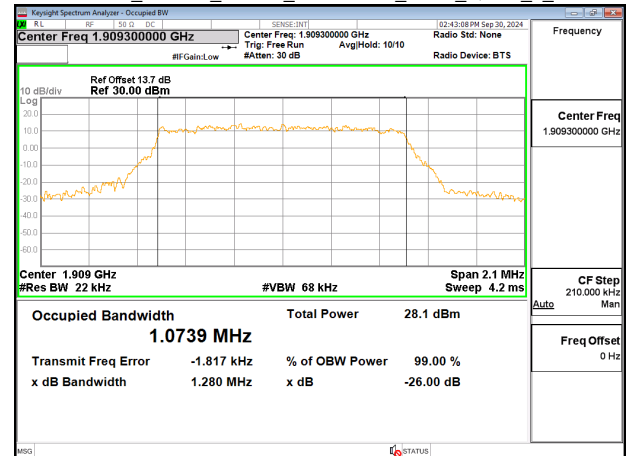
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Band2\_1.4MHz\_Chain0\_1880MHz\_NBI\_0\_16QAM\_6\_0



Band2\_1.4MHz\_Chain0\_1909.3MHz\_NBI\_0\_QPSK\_6\_0



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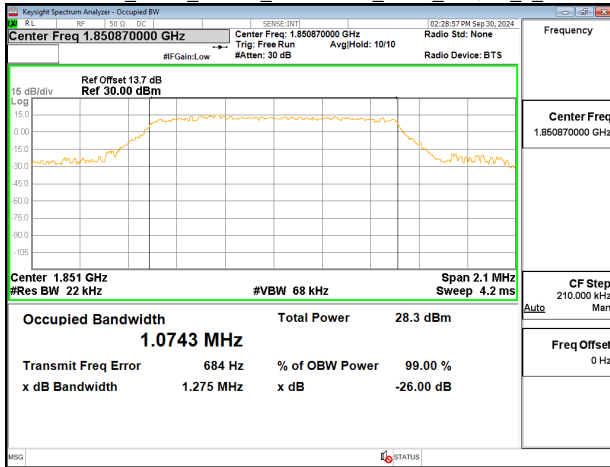
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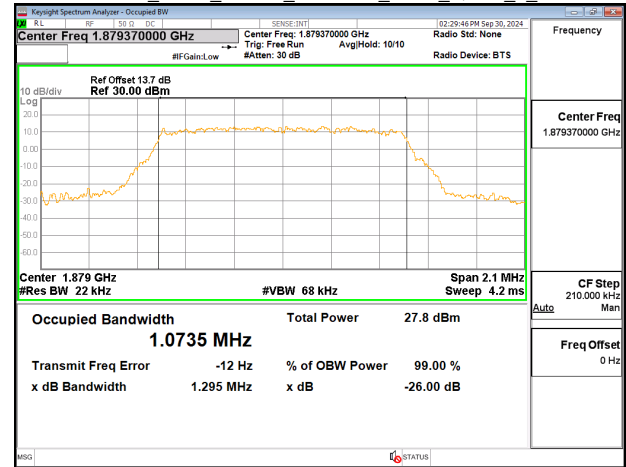
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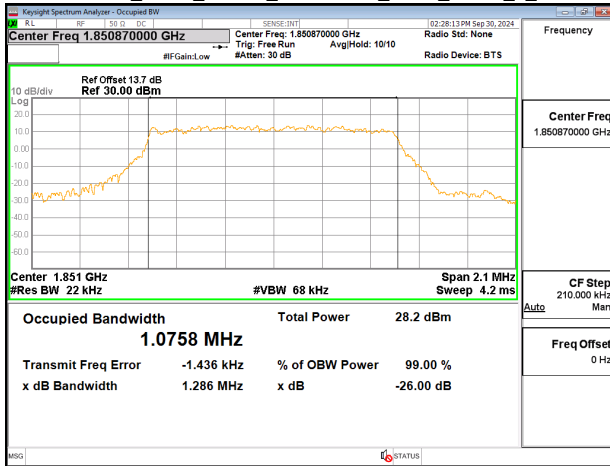
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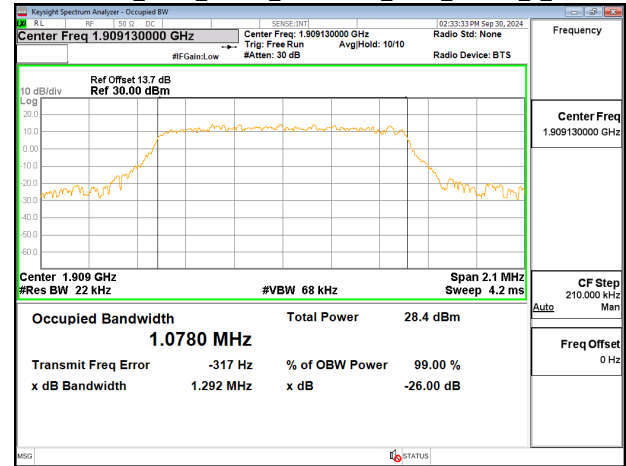
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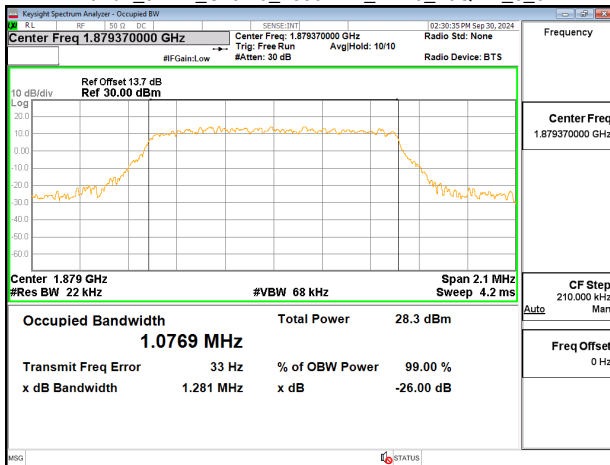
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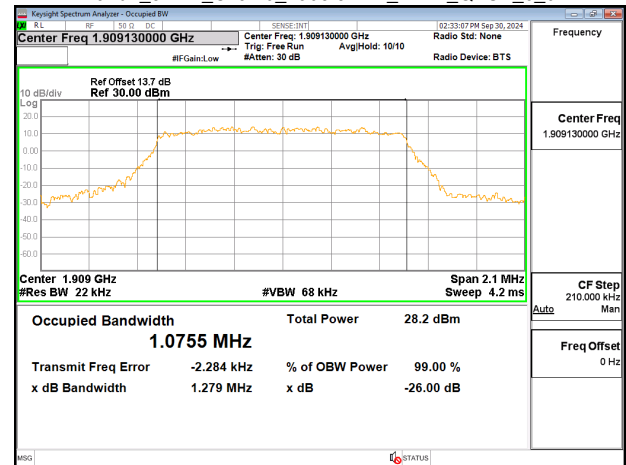
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Band2\_3MHz\_Chain0\_1908.5MHz\_NBI 1\_QPSK\_6\_0



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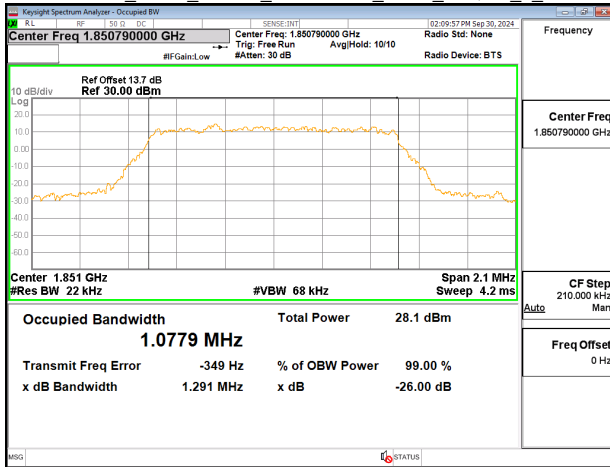
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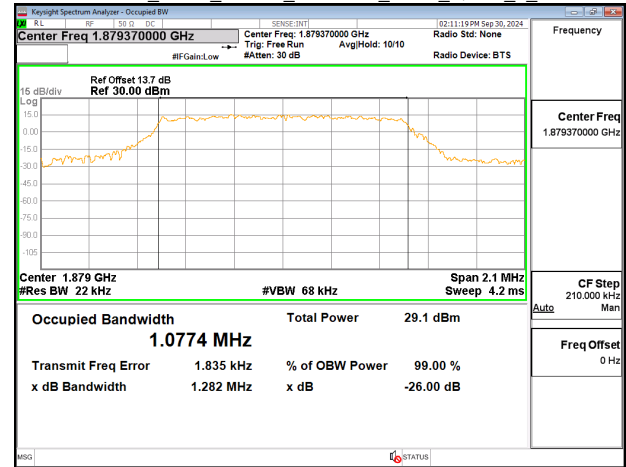
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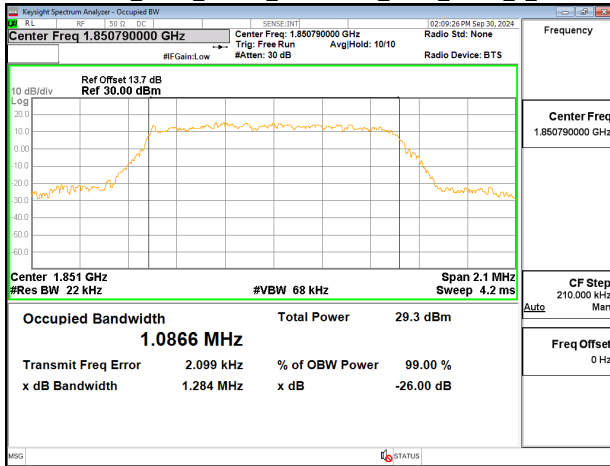
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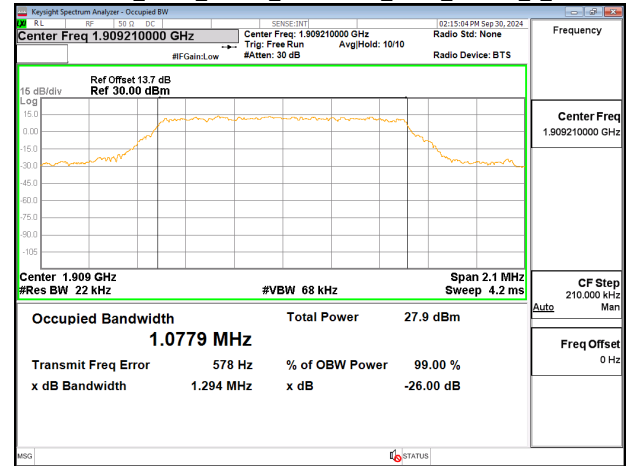
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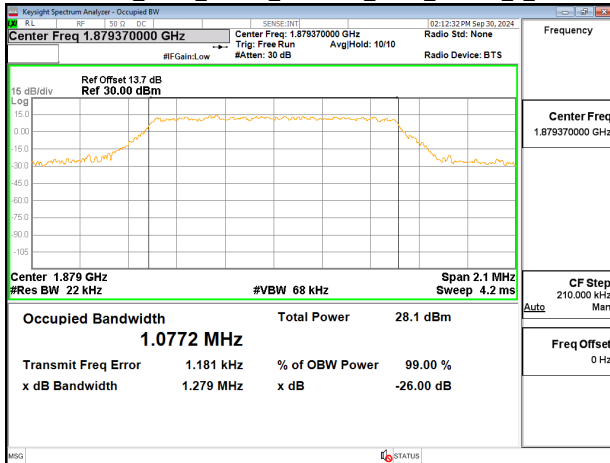
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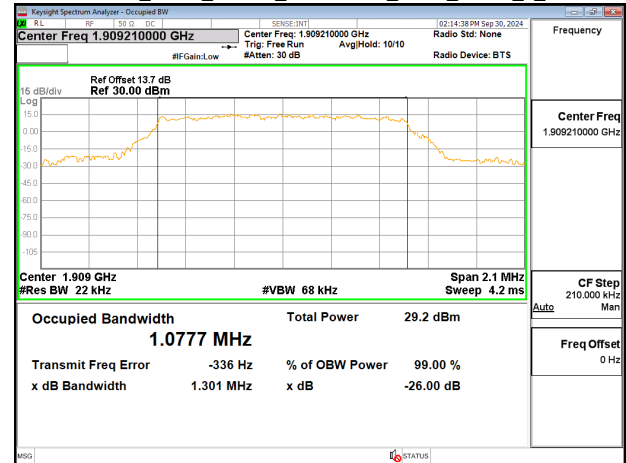
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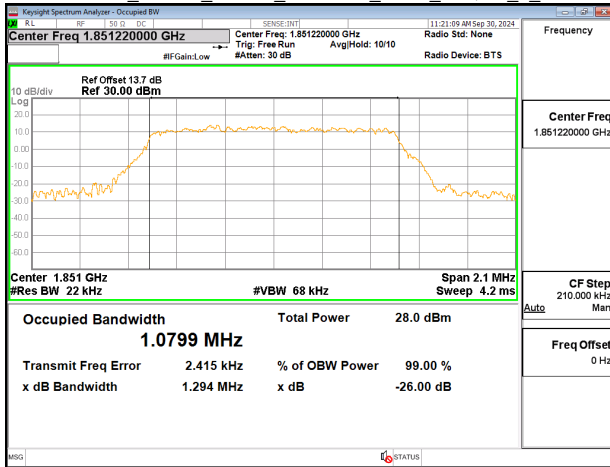
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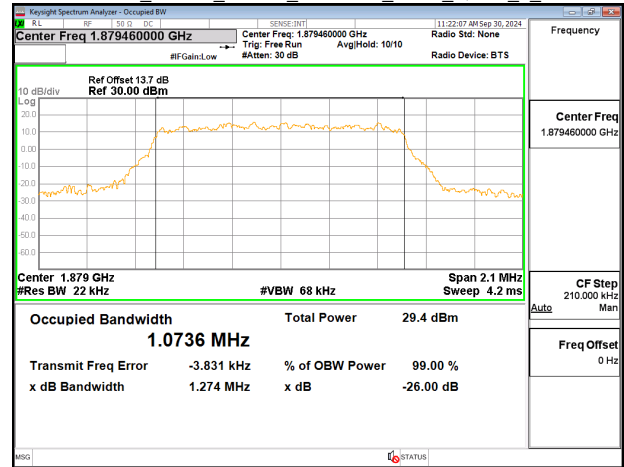
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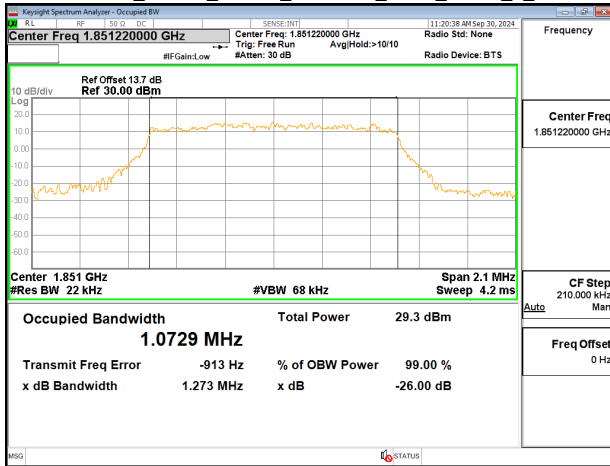
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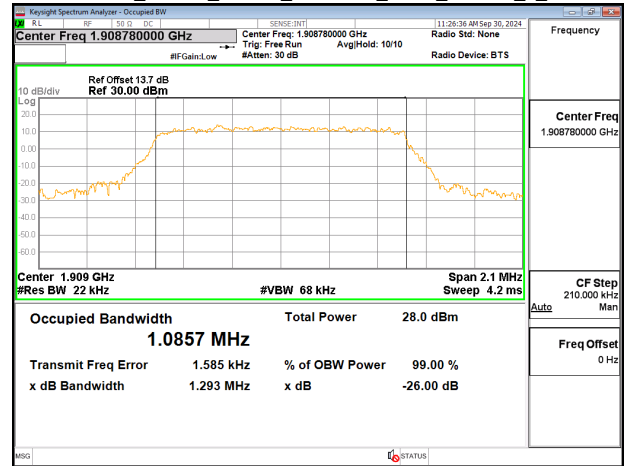
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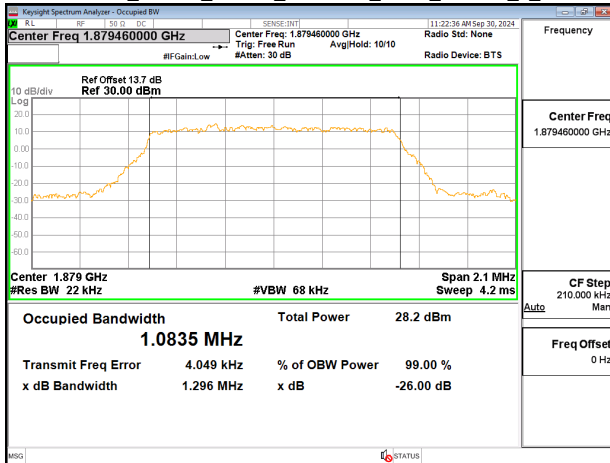
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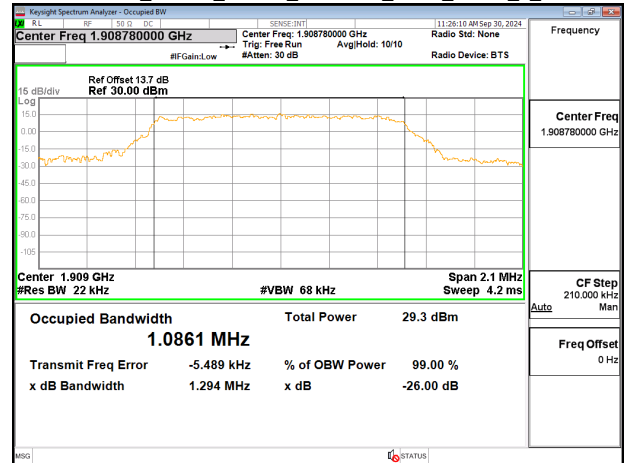
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Band2\_10MHz\_Chain0\_1905MHz\_NBI 7\_QPSK\_6\_0



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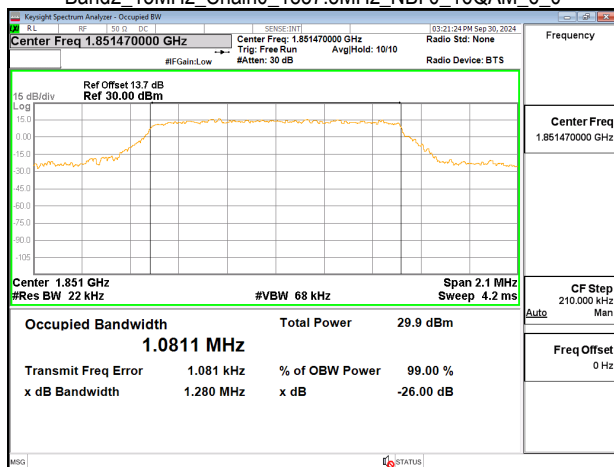
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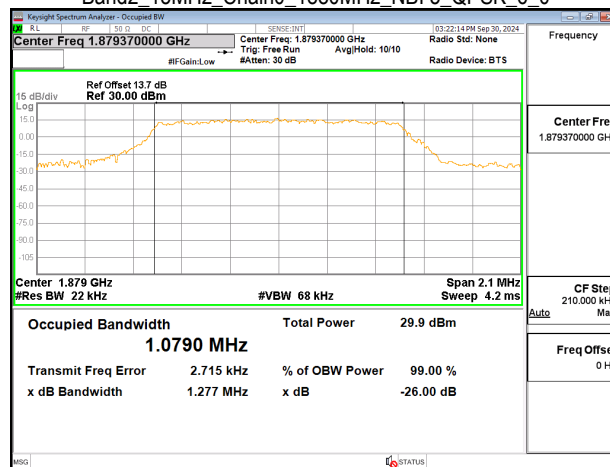
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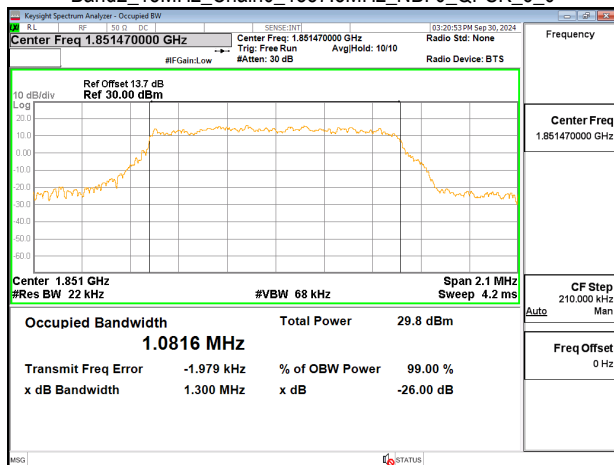
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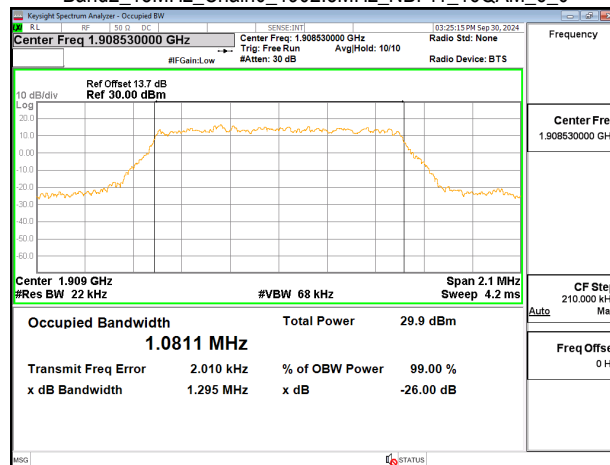
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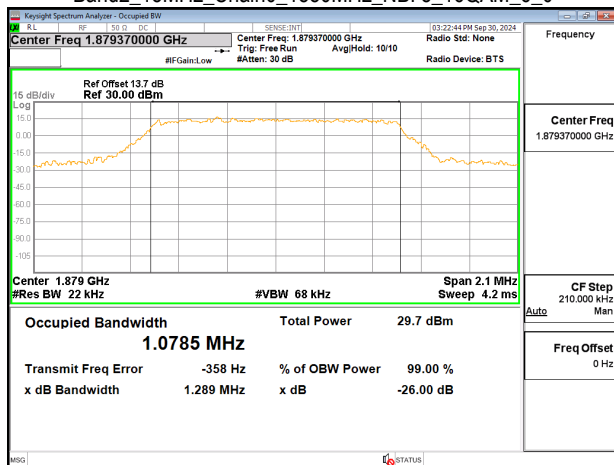
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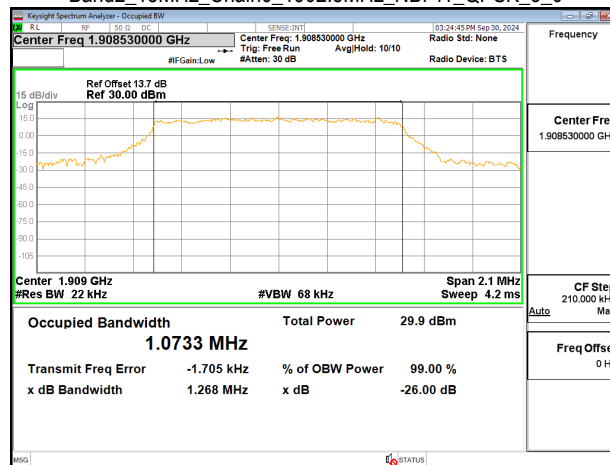
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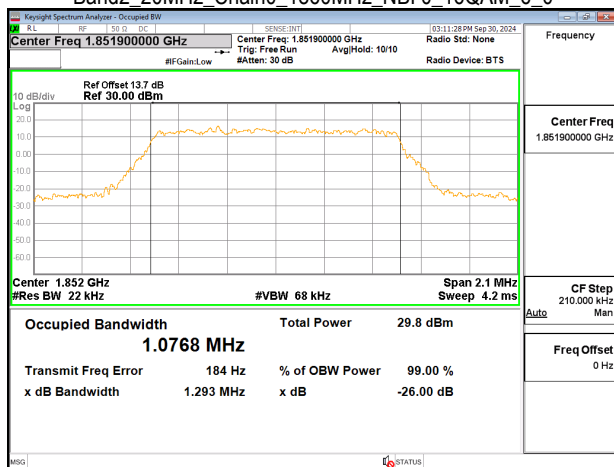
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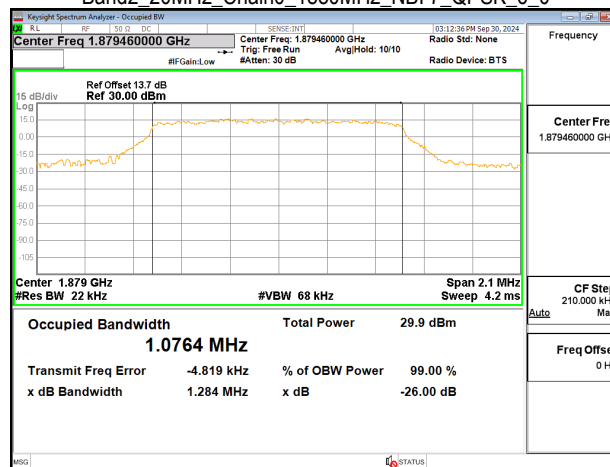
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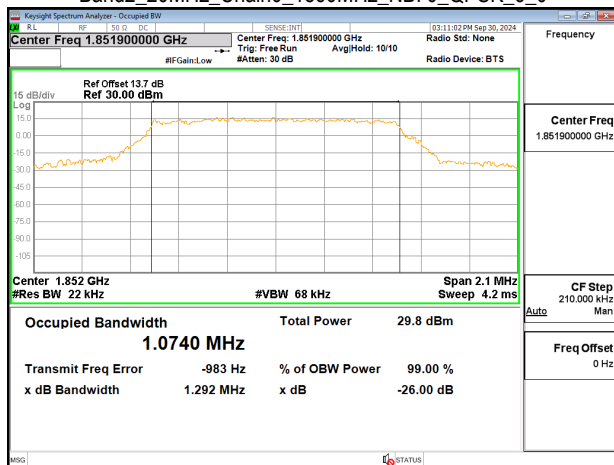
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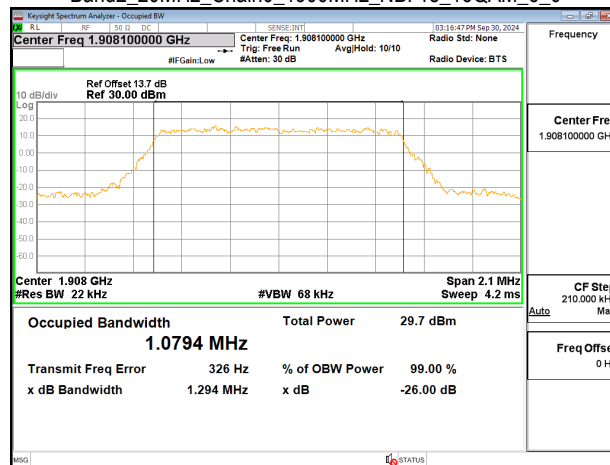
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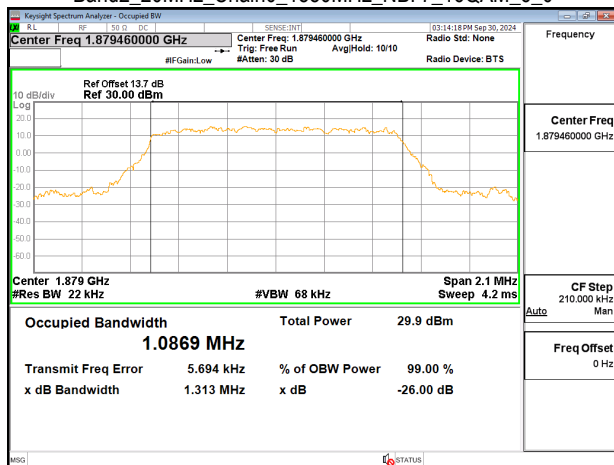
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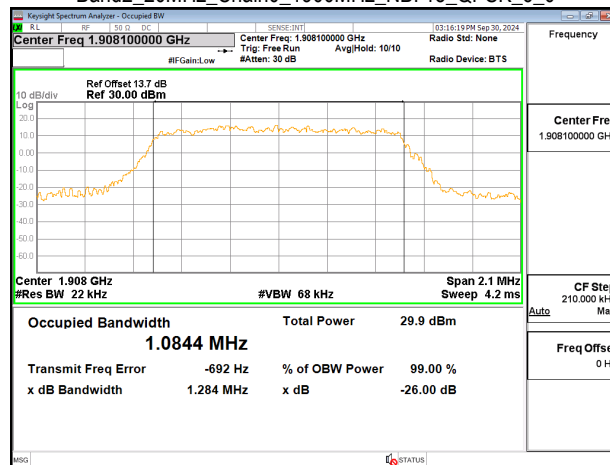
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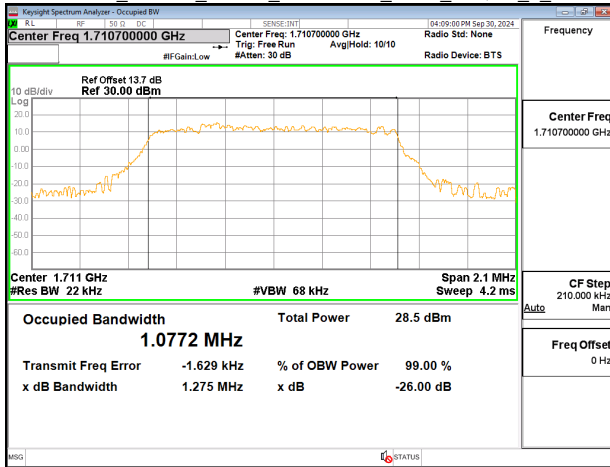
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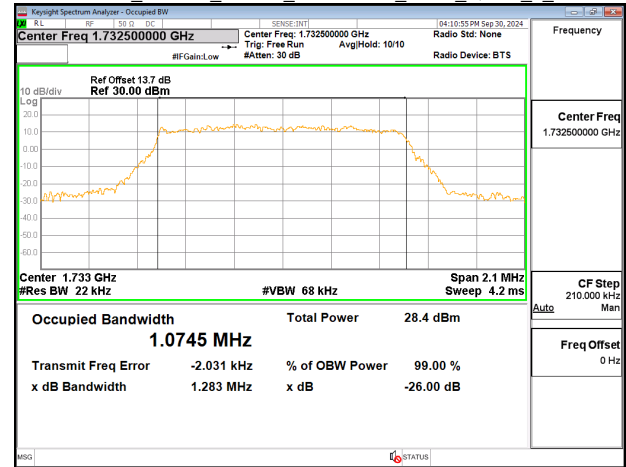
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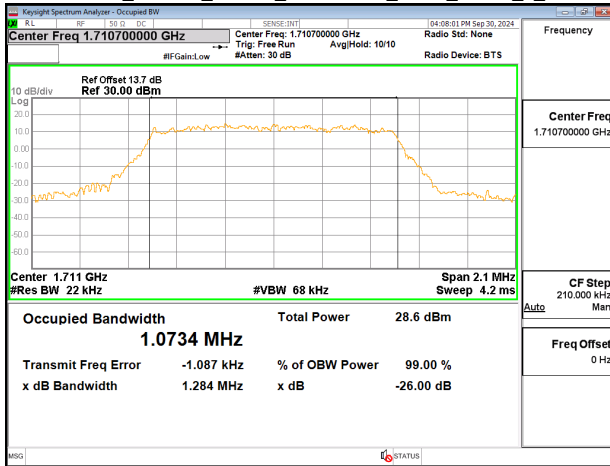
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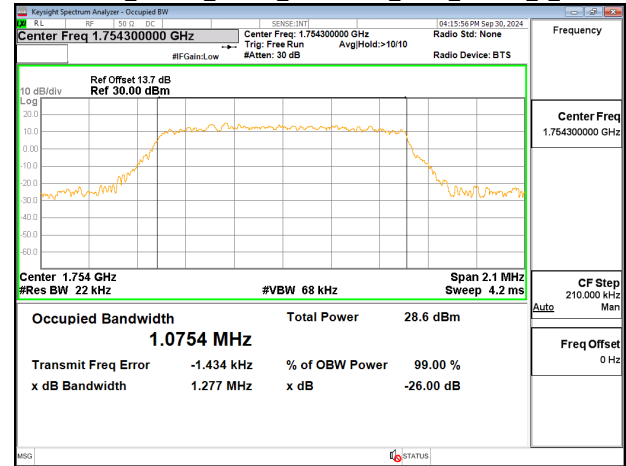
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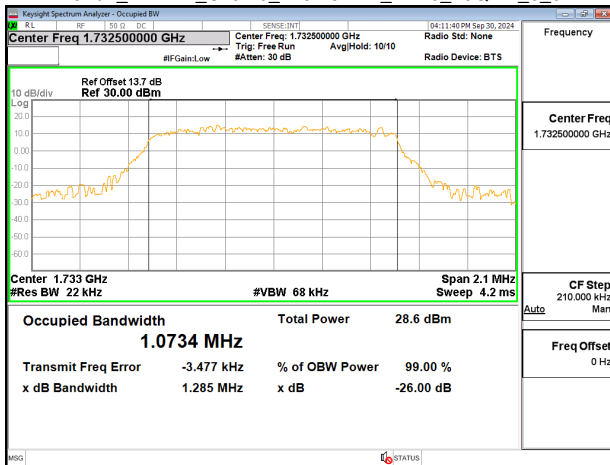
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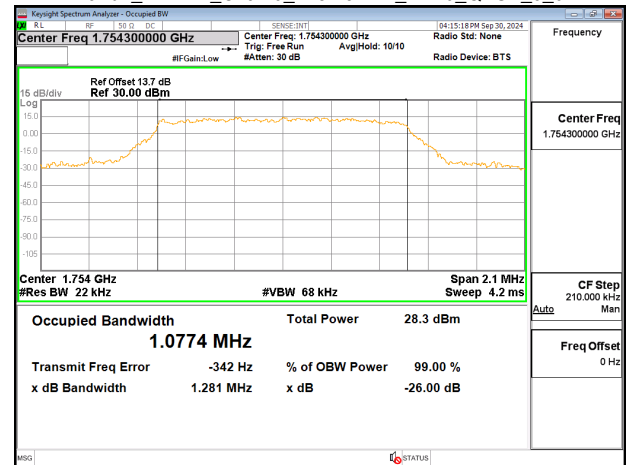
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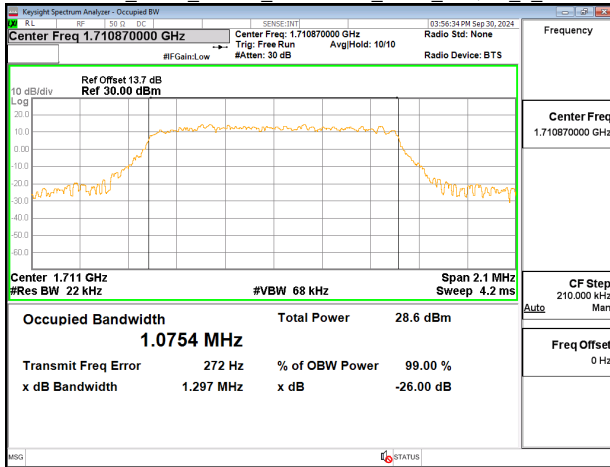
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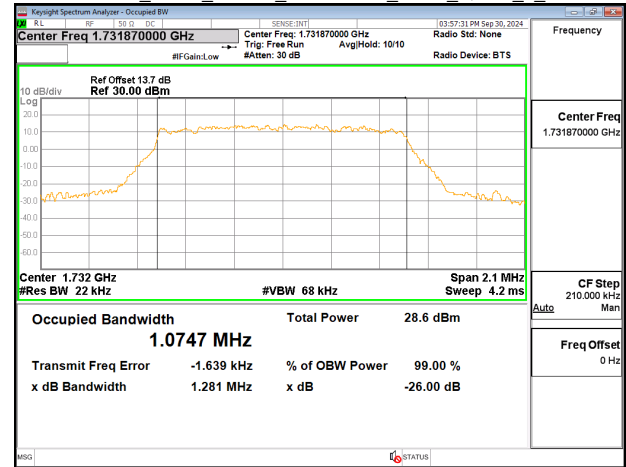
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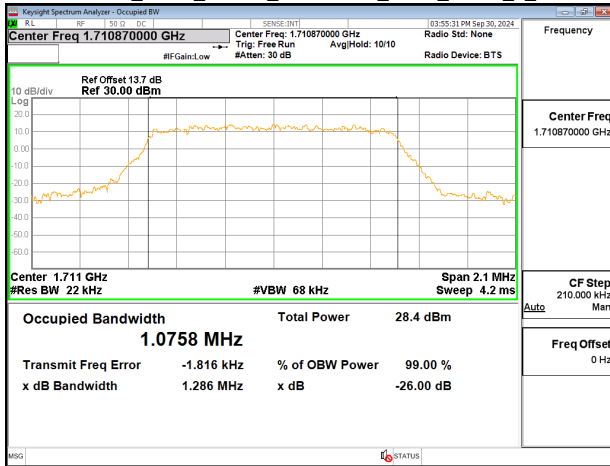
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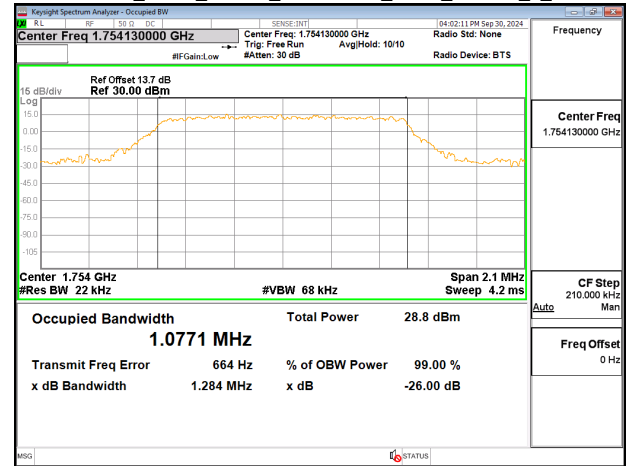
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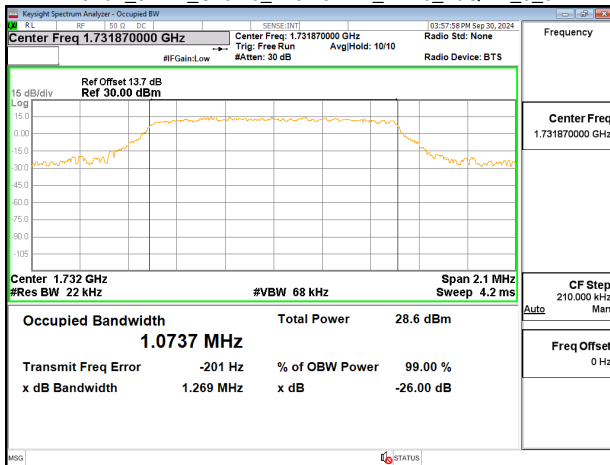
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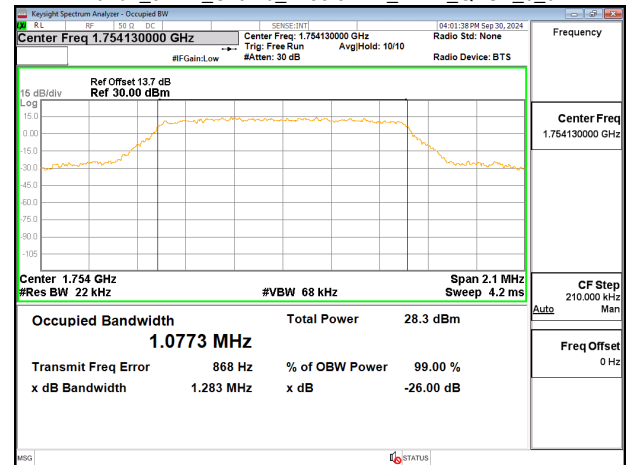
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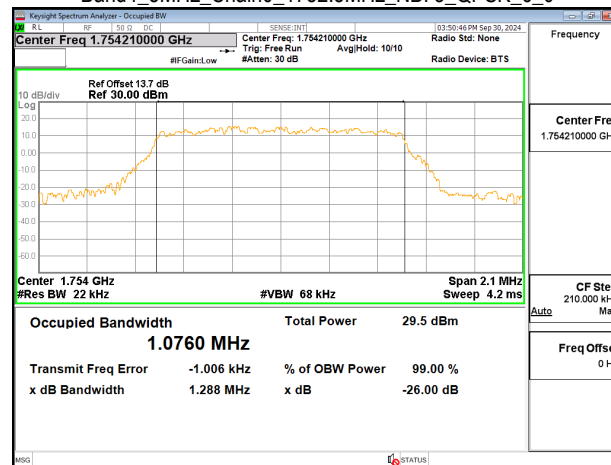
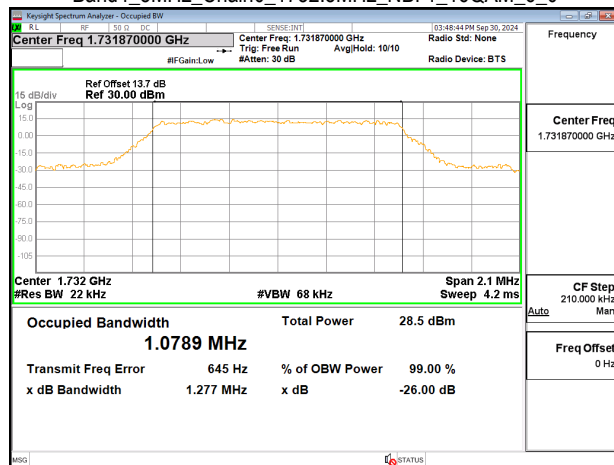
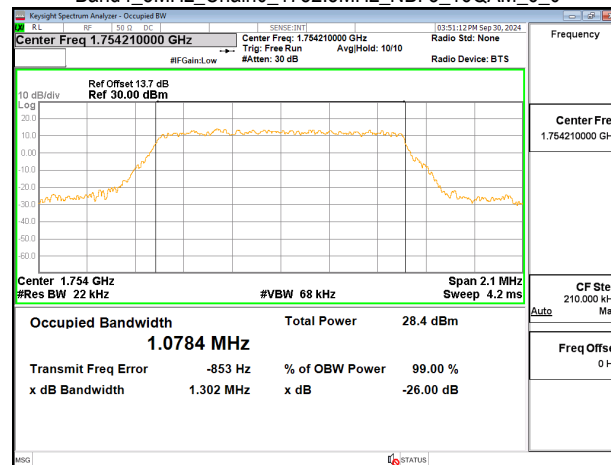
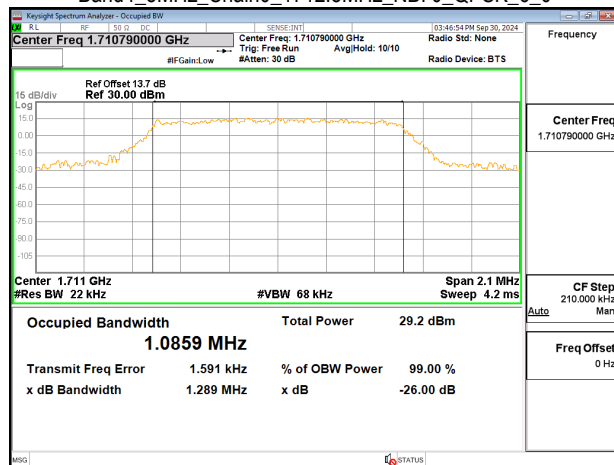
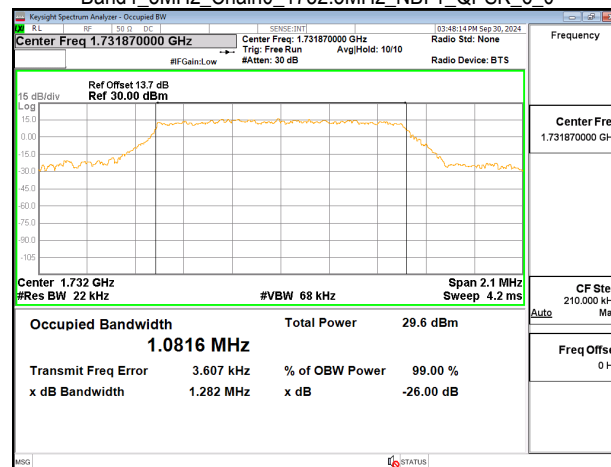
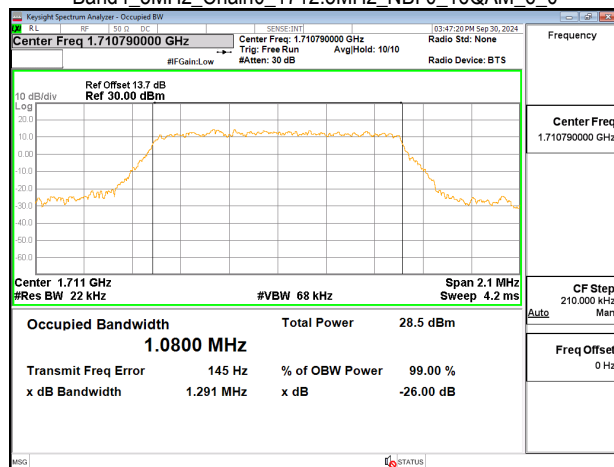
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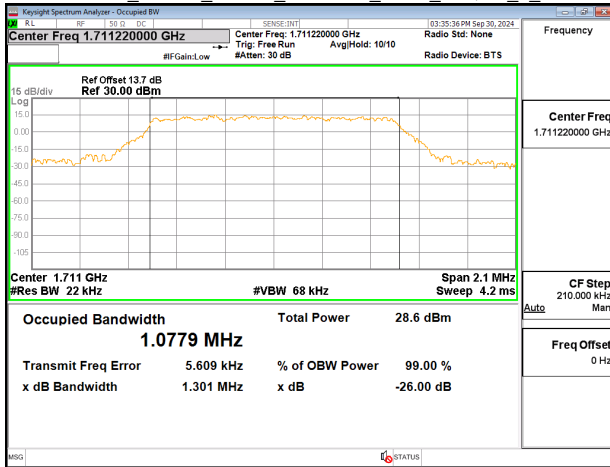


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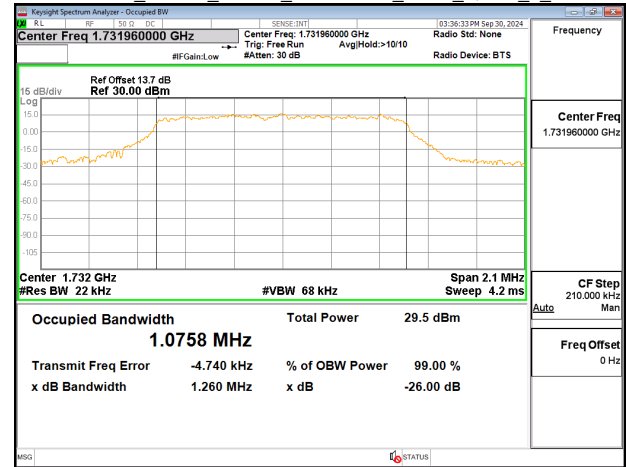
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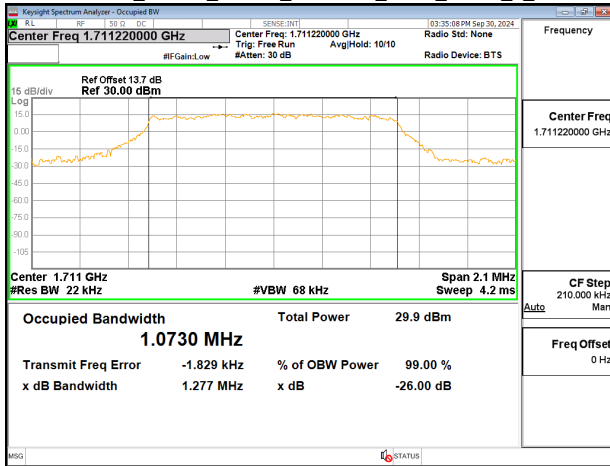
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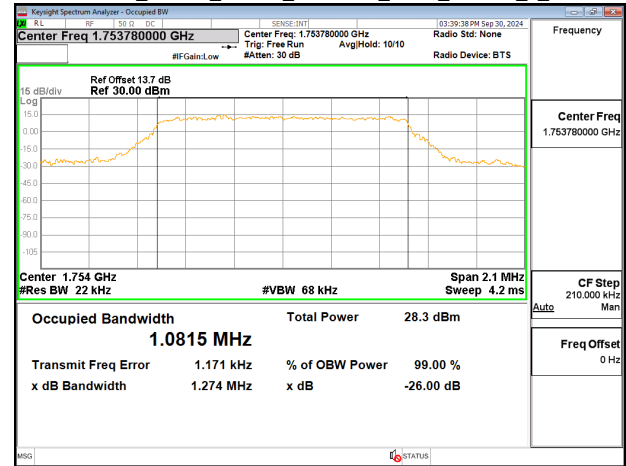
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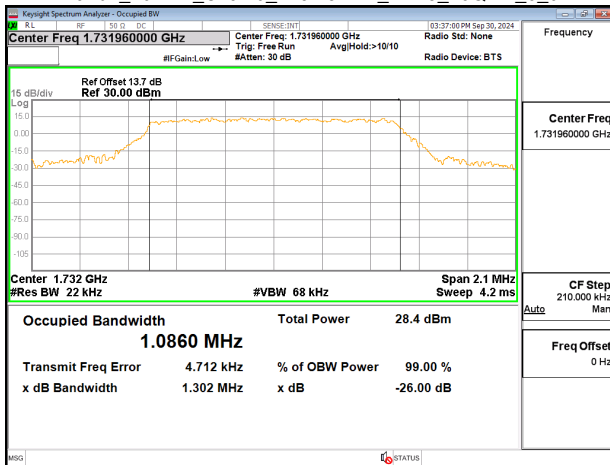
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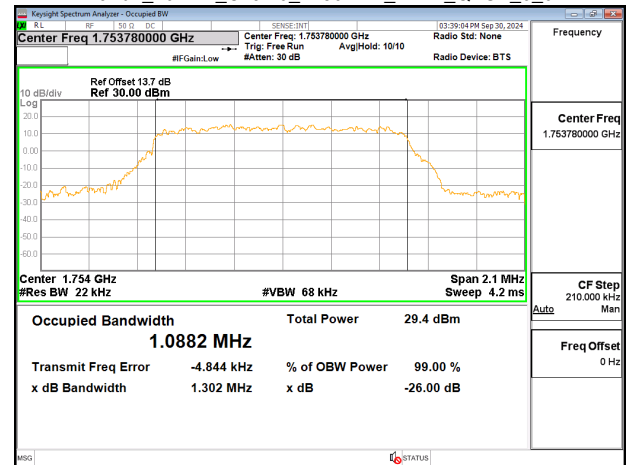
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